THE AVAILABILITY OF WOMEN, RACIAL MINORITIES, AND HISPANICS FOR ON-SITE CONSTRUCTION EMPLOYMENT

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Executive Summary

The Availability of Women, Racial Minorities, and Hispanics for On-Site Construction Employment

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This report develops a new method for calculating the employment availability of women, racial minorities, and Hispanics for on-site construction work in the construction industry. Appendix H provides availability figures for local labor markets nation-wide calculated using this new method.

After an introductory Chapter 1, Chapter 2 describes the construction industry. The chapter finds that, among "blue collar" occupations, construction offers careers for persons without extensive post-secondary education that are unusually attractive in both financial and non-financial terms. Construction firms are predominantly small, with 97.1% having fewer than 20 employees, and they primarily offer temporary, project-based employment. Construction employers are particularly resistant to changing the demographic composition of their workforces, for reasons that include strong incentives to avoid risks of work disruption and weak incentives to address human resource issues.

Chapter 3 provides further information of the size of construction firms. Our best estimate is that, federal prime contractors account for 2.5 million construction workers as employees and 1.9 million additional workers through subcontracts, about 53% of all workers in the industry. Firms with current federal prime contracts are somewhat larger than all firms in the industry, but still include many small firms; 76.5% of these firms report 20 or fewer employees.

Although the majority of construction firms are small, the majority of construction employees work for larger firms. Therefore, a requirement covering a limited number of large firms would cover the majority of workers employed by federal contractors and their subcontractors. For example, covering firms with 150 or more employees would encompass 70.2% of employees of federal construction prime contractors and their subcontractors (3.1 million workers) while requiring compliance from only 5.4% of firms (24,262 companies) (see Table 3.17).

Chapter 4 examines the utilization of women in the construction industry. Using standard methods of computing availability, it concludes that women represent about 3.0% of on-site workers in the construction industry today. Concurrently, women account for 5.5% of construction workers in industries other than construction, implying an underutilization of 220,000 women in the construction industry itself (see Table 4.2). This under-utilization has remained virtually unchanged for more than three decades. It

characterizes all major construction occupations, including laborers and helpers; construction equipment operators; and crafts such as carpenters, drywall installers, electricians, masons, operating engineers, painters, plumbers, and sheet metal workers.

Chapter 4 also relates these employment outcomes to attitudes and employment practices -- the "workplace culture" -- dominant throughout the construction industry. This culture includes: negative stereotypes about women's ability to perform construction work; sexual tension injected into work contexts where it is irrelevant; intentions to reserve well-paid employment for men, "who deserve it"; and reluctance by supervisors and other officials to discipline perpetrators of discrimination. This culture underlies unwillingness to hire women even when they are as qualified as males. It also underlies harassing, hostile, and unhelpful behavior at worksites to deter women from applying for construction work and drive away those that are hired.

Chapter 5 reviews the utilization of racial and ethnic minorities in the construction industry. Applying standard methods of estimating availability, it concludes that:

- African Americans represent about 7.7% of on-site construction workers in the construction industry today, which leaves an under-utilization of about 388,000 workers (4.5 percentage points) compared to their expected representation (see Table 5.2). As with women, this under-utilization is spread widely among construction occupations and is not diminishing over time.
- Other racial minority groups -- Asians, American Indians/Alaskan Natives, Native Hawaiians/Other Pacific Islanders, and persons reporting themselves in more than two racial categories -- account for only a few percentage points of the construction work force except in some local labor markets. However, their combined nation-wide average representation of 4.0% is 0.9 percentage points (22,000 workers) below their expected representation, and this under-utilization characterizes a broad range of construction occupations.
- The representation of Hispanics in construction employment has more than quadrupled over the past four decades. Currently accounting for 27.2% of construction craft workers and 45.6% of construction laborers and helpers, Hispanics are often employed in construction occupations at a higher rate than expected based on their availability. Generally, under-representation is found only in specific locations, occupations, or employers.

According to Chapter 5, these employment outcomes once again reflect attitudes and employment practices prevalent in the construction industry. Here, important features of the industry's culture include: stereotypes that racial/ethnic minorities are less capable, less reliable workers than their white counterparts; limited access by minorities to information and contact networks about employment opportunities; conscious intentions to preserve higher-level opportunities for whites against all "outsiders"; and reluctance by supervisors and other officials to discipline perpetrators of discriminatory acts. These attitudes underlie unwillingness to hire minorities even when they are as qualified as whites, and harassing, hostile, and unhelpful behavior at worksites to deter minorities from applying for construction work and drive away those that are hired. In addition, many minority immigrants experience discrimination in wages and working conditions enforced by threats of deportation.

Chapters 4 and 5 imply that standard methods for calculating availability based on current employment in construction, such as those used in those chapters themselves, importantly under-estimate the expected representation of women and minorities. The methods therefore tend to reflect and perpetuate under-utilization rather than encourage and assist construction employers toward more inclusive employment. A method for estimating availability is needed that reflects women and racial minorities qualified and interested in on-site construction employment after "factoring out" the effect of the construction industry's discriminatory attitudes and practices documented in Chapters 4 and 5.

A systematic, objective procedure for doing so is described in Chapter 6. Using data from the Department of Labor's O*NET, this procedure identifies occupations whose workers are similar in physical abilities, cognitive abilities, and occupational interests to those currently in construction occupations. It then computes availability in on-site construction occupations by combining employment in construction occupations themselves with employment in this broader set of similar occupations. Under this procedure, the nation-wide availability of women for all on-site construction occupations combined is 8.1%, rather than the 3.0% availability based on persons currently employed in construction occupations alone. For African Americans, availability under the new method is 9.9%, rather than the 7.3% availability based on persons currently employed in those occupations (see Table 6.4).

The availability of women and minorities varies substantially among local labor markets. Chapter 7 therefore discusses the appropriate geographical definition of labor markets within which to implement Chapter 6's methodology. Taking account of data accuracy, administrative feasibility, worker commuting, and the often-changing location of construction projects, the chapter opts for the 179 Economic Areas into which the U.S. Department of Commerce's Bureau of Economic Analysis divides the nation.

Applying the methodologies developed in Chapters 6 and 7, Chapter 8 and Appendix H present availabilities for six demographic groups in each Economic Area nation-wide for all construction crafts combined, all laborers and helpers combined, and for 45 separate construction occupations. These figures are generated by applying the methodology developed in Chapter 6 to data from the Census Bureau's American Community Survey 2006-2008, the most recent data currently available. The figures can readily be updated when the Census Bureau's official Equal Employment Opportunity Tabulation based on the American Community Survey 2006-2010 becomes available.

Chapter 1 Introduction

The Subject of this Report

Among blue-collar employment in the American labor market, on-site construction occupations are some of the most prized. As this report documents, they provide above-average earnings for individuals with limited educational investment, occupational prestige above that for comparable blue-collar jobs, and strong long-term employment demand.

As in many prized occupations, the work force employed in on-site construction occupations has traditionally been predominantly male and white. In construction, that pattern has changed little over several decades and continues into the present. Today, only 3.0% of on-site construction workers are women, and only 7.3% are African American.

To some extent, such low representation reflects factors not controlled by individual employers. For instance, a larger proportion of women than men may not want the physically-demanding work on-site construction occupations involve, and a higher proportion of minorities than whites may not meet educational prerequisites. However, as this report documents, the low representation also reflects widespread hostile attitudes and exclusionary practices within the construction industry.

Concern about these latter circumstances has made construction a focus for affirmative action overseen by the Office of Federal Contract Compliance Programs (OFCCP). The subject of this report is the current need for, and appropriate design of, availability figures for affirmative action in on-site construction employment in the construction industry. The current version of affirmative action requirements for that employment is summarized in OFCCP's *Technical Assistance Guide for Federal Construction Contractors*, most recently issued in May 2009.¹ The present report considers fresh conceptual approaches and updated empirical data on subjects addressed in that *Guide*.

Outline of this Report

The report begins in Chapter 2 with a description of the construction industry and the employers and occupations central to its structure and operations. Chapter 3 provides additional detail on the number and size of firms in the industry and in the subset of firms holding federal contracts.

¹ US OFCCP (2009A).

Chapters 4 and 5 review nation-wide statistics on the utilization of gender, race, and ethnic minority groups as construction workers. The chapters also draw on scholarly research and other sources to describe the relationship between those statistics and attitudes and employment practices prevalent in the industry.

Chapter 6 describes a new methodology for calculating availabilities for women and minorities qualified for and interested in on-site construction employment. Because this new methodology "factors out" the effect of the industry attitudes and practices discussed in Chapters 4 and 5, it provides more accurate, meaningful availabilities than are produced using current standard procedures.

Chapter 7 discusses the local labor markets in which to implement this new methodology.

Finally, Chapter 8 summarizes and then implements the methodology developed in Chapter 6. The resulting employment availabilities are presented in Appendix H for six gender, race, and ethnicity groups in 179 local labor markets. Availabilities are provided for two broad categories of construction work -- craft workers and laborers/helpers -- as well as 45 separate construction occupations.

To enhance the readability of this complex, often-technical report, many detailed tables appear in Appendices A through H rather than in the document itself. However, the contents of these appendices are integral to the report and should not be overlooked.

Chapter 2 The Construction Industry

This chapter first provides basic information about the structure and operations of the construction industry. It then discusses the "industry logic" governing the behavior of firms as they respond to the circumstances in which the industry operates. Later in this report, both types of information will be drawn upon to help explain employment practices in this industry.

Construction Firms

The construction industry prepares sites for, builds, renovates, and tears down the nation's houses, factories, schools, offices, airports, roads and bridges. With annual revenues of \$1.14 trillion, or 8.2% of the nation's Gross Domestic Product,¹ it is one of the nation's largest industries. Correspondingly, it is one of the country's largest employers. In 2008, it provided about 7.2 million wage and salary jobs plus employment for 1.8 million self-employed and unpaid family workers.² These positions are distributed across the country in approximately the same way as the general population.

The construction industry is generally divided into three major segments:

- <u>Building construction</u>: Production of residential, industrial, commercial, and other types of structures.
- <u>Heavy and civil engineering construction</u>: Production of infrastructure projects such as roads, sewers, and bridges.
- <u>Specialty trades</u>: Specialized activities such as carpentry, painting, plumbing, and electrical work which are part of the overall work required to complete buildings or infrastructure.

Individual construction firms usually specialize in one of these three segments, as well as in the size of projects.

In terms of roles within projects, the most important distinction is between general contractors and subcontractors. Subcontractors are responsible for building a part of a project or performing a specific scope of work, such as installing the wiring and electrical systems within a building. In contrast, general contractors are responsible to project owners for managing, organizing, and delivering completed projects. Since projects commonly involve many specialty tasks, and these must be executed in a

¹ Simonson (2008). Data are for 2007.

² US Bureau of Labor Statistics (2010A), p. 2.

complex sequence, general contractors' responsibilities are substantial and call on considerable skills in project management.³

Firms may also cross over among sectors and roles. For example, a moderate size carpentry firm may serve as a general contractor for construction of a small building but as a framing subcontractor during construction of a multi-house residential subdivision.

In completing a project, general contractors use their own employees, those of subcontractors, or a mix. Typically, general contractors for heavy and civil construction self-perform a large proportion of the work, using subcontractors only for specialized tasks. In contrast, building contractors tend to subcontract a high proportion of project work hours. In some cases, general contractors subcontract all actual construction, retaining only project management and coordination duties.

On both building and heavy projects, the general contractor typically selects subcontractors. General contractors sometimes work with the same subcontractors over multiple projects.⁴

General contractors work for project owners, such as a local government, a state department of transportation, a private real estate developer, or an individual homeowner. In 2006, about 22% of U.S. construction was on public projects and the rest on private ones.⁵

Public owners include government agencies at the federal, state, municipal, or special district levels. They typically use formal bidding competitions with detailed designs and specifications; employ inspectors to monitor contractors' work; make progress payments as work is satisfactorily completed; and require that contractors post performance ("surety") bonds, usually obtained from insurance companies. Private project owners or their lenders may also employ some of these same procedures, particularly for large projects. Firms' financial capacity, performance track record, and networks of business relationships affect both their likelihood of winning bids and their ability to obtain performance bonds.⁶

Construction firms or workers are not federally licensed, but state and local governments often require licensing for trades such as electricians and plumbers. Contracting firms in such lines of work, or their employees performing that work, are

³ Weil (2005).

⁴ For example, Eccles (1981) and Constantino & Pietroforte (2002) observe that some general contractors form "quasi-firms" with small numbers of subcontractors. These quasi-firms work together continuously over long periods and rarely test their membership through competitive bidding.

⁵ O'Neal & Berning (2007), p. 3.

⁶ O'Neal & Berning (2007), pp. 4-8.

licensed by about three-quarters of states, and in the remaining states, often by local governments. 7

Construction Occupations

In 2008, employment in construction (including self-employment) was divided among the three industry segments defined earlier in this chapters as follows:⁸

- 64% in specialty trades firms;
- 23% in building construction firms; and
- 13% in heavy and civil engineering firms

Compared to most "blue collar" occupations, construction offers well-paid jobs and careers -- specifically, those increasingly-rare opportunities to earn "middle class," family-supporting incomes without a college degree. Table 2.1 presents average annual earnings for selected construction trades, ranging as high as \$79,000. The average for construction and extraction occupations, \$39,799, is between 25% and 75% higher than the counterpart figures of \$31,614 for factory production workers, \$31,425 for transportation and materials moving workers, \$24,272 for maintenance workers, or \$22,832 for farming, fisheries, and forestry occupations.⁹

Construction occupations offer non-financial attractions as well. Particularly in more skilled construction occupations, daily work offers variety in work assignments, challenging problem solving, and opportunities for self management.¹⁰ Public opinion polls report occupational prestige scores of, for example, 45 for electricians, 38 for plumbers, and 37 for sheet metal workers, on a scale in which factory production workers rate between 20 and 25.¹¹ Thus, the construction trades are often viewed as the "hallmark" of the working class and practitioners of these crafts considered "Blue Collar Aristocrats."¹²

⁷ O'Neal & Berning (2007), p. 16.

⁸ US BLS (2010A), p. 2

⁹ US BLS (2006), Table 2.1

¹⁰ Eisenberg (2001), p. 1.

¹¹ Nakao & Treas (1992).

¹² Paap (2008), p. 373; Bilginsoy (2005); LeMasters (1975).

Table 2.113Average Annual Earnings in Selected ConstructionOccupations, National Compensation Survey, 2006

(a)	(b)
Occupation	Annual Earnings
Elevator installers & repairers	\$78,880
Structural iron and steel workers	\$57,713
Construction & building inspectors	\$52,408
Brick masons, block masons, & stone masons	\$50,298
Electricians	\$47,453
Pipelayers, plumbers, pipefitters, & steamfitters	\$46,809
Carpenters	\$41,688
Carpet, floor, and tile installers & finishers	\$39,975
Sheet metal workers	\$39,832
Misc. construction equipment operators	\$39,174
Cement masons, concrete finishers & terrazzo workers	\$38,946
Hazardous materials removal workers	\$38,409
Glaziers	\$37,896
Drywall installers, ceiling tile installers, & tapers	\$36,554
Plasterers & stucco masons	\$34,150
Insulation workers	\$34,039
Misc. construction & related workers	\$32,868
Highway maintenance workers	\$31,518
Paperhangers	\$31,143
Painters, construction & maintenance	\$30,991
Roofers	\$30,627
Paving, surfacing, & tamping equipment operators	\$29,873
Construction laborers	\$29,802
Helpers, construction trades	\$25,700

The principal disadvantage of careers in construction is employment instability. Most construction workers do not have permanent employers but rather are hired on a project-by-project basis. Thus, they often do not have the job security or long-term fringe benefits that long-term employees enjoy.¹⁴ When one project ends, replacement work may be difficult to obtain. The industry is highly sensitive to the state of national and local economies, leaving construction workers vulnerable to long periods of slow work or

¹³ US Bureau of Labor Statistics (2007).

¹⁴ However, unionized workers often receive fringe benefits such as pensions and health insurance through their unions.

unemployment. Currently, the construction industry is seriously affected by the credit crisis and recession that began in December 2007. Seasonally adjusted construction industry employment fell in June 2010 to the lowest level since July 1996, with the industry's unemployment rate at 20.1%, more than double the national average.¹⁵

In many cases, to qualify for construction work workers must possess considerable strength and stamina. Construction work also may require other physical attributes, such as tolerance for exposure to harsh weather, willingness to work with potentially dangerous tools and equipment, and the ability to function in workspaces that may be cramped, cluttered, far off the ground, or on temporary scaffolding. However, as Chapter 6 will examine in detail, these requirements vary among construction occupations and should not be over-generalized to mean that all construction work is extremely physically demanding on all dimensions. For example, operating engineers who run tower cranes need to be able to climb to great heights, but they do not need unusual physical strength to operate their control levers. Roofers require considerable strength to lift heavy materials, but for electricians, strength requirements are more limited and fine motor skills are more important. Highway maintenance workers are exposed to sun, wind, and rain, but drywall installers generally are not.

Considerable variation is also evident among construction occupations in the level of cognitive skills involved and the amount of formal training required. Table 2.2 describes the educational preparation for selected construction occupations according to the Department of Labor-sponsored O'NET.¹⁶ The table reports that on-site construction occupations range across a relatively wide range of skill levels, here labeled "Job Zones." At one end of the spectrum, occupations in Job Zone One, such as construction laborers,¹⁷ typically do not demand a high school diploma, prior training, or substantial work experience. At the other end, skilled crafts such as electricians and plumbers in Job Zone Three require several years of post-secondary classroom training plus several years of supervised work experience.

Apprenticeships offer one traditional way to meet these latter requirements. As Table 2.3 illustrates, formally registered apprenticeships are available in range of construction occupations. About 70% of apprentices are joint union-management activities.¹⁸ Typical construction apprenticeships involve classroom work, on-the-job

¹⁵ AGC of America (2010).

¹⁶ This data source is described in Chapter 6.

¹⁷ In most analyses of construction occupations, including those by the US Bureau of Labor Statistics, the term "laborer" is used to refer to an occupation which does not require training such as through a registered apprenticeship. However, training organizations such as those affiliated with the Laborers International Union of North America may offer registered apprenticeships treating the construction laborer occupation as a skilled craft. Throughout this report, the term "laborer" is used in the former sense, to refer to an occupation classified as unskilled.

¹⁸ Bilginsoy (2005), p. 454. The remaining 30% are typically organized by contractors or contractor associations.

Table 2.219Skill Development Required forSelected Construction Occupations

(a)	(b)	(c)
Job Zone	Skill Development	Occupations
1	High school diploma not usually required. Skills usually acquired in a few days to a few months of experience.	Carpet installers Construction laborers Helpersbrickmasons, blockmasons Helperspainters, plasterers Septic tank servicers & sewer cleaners
2	High school diploma usually required. Also requires a few months to one year of on-the-job supervised experience. Recognized apprenticeships may be available.	Brickmasons & blockmasons Carpenters Floor layers Floor sanders & finishers Tile & marble setters Paving equip. operators Pile-driver operators Drywall & ceiling tile installers Glaziers Insulation workers Painters Paperhangers Pipelayers Plasterers & stucco masons Reinforcing iron & rebar workers Roofers Sheet metal workers Structural iron & steel workers Helperselectricians, plumbers Fence erectors Hazardous materials removal workers
3	Usually requires high school diploma plus formal training in a vocational school, associate's degree program, or recognized apprenticeship. Also requires from one to several years supervised experience.	Stonemasons Cement masons & concrete finishers Operating engineers Electricians Pipefitters & steamfitters Plumbers Elevator installers & repairers

¹⁹ Source: O*NET data system described in Chapter 6.

(a)	(b)
Air conditioning installer, window	Hazardous waste material tech
Asphalt paving machine operator	Inspector, building
Boilermaker fitter	Insulation worker
Boilermaker I	Line erector
Boilermaker II	Line Installer
Bricklayer (brick & tile)	Line repairer
Bricklayer (construction)	Locksmith
Cabinetmaker	Marble finisher
Carpenter	Marble setter
Carpenter, interior systems	Mosaic worker
Carpenter, commercial interior	Operating engineer
Carpenter, framing & finishing	Ornamental iron worker
Carpenter, forms & concrete	Painter, construction
Carpenter. advanced systems	Painter, professional & kindred
Carpenter, rough	Paperhanger
Carpet cutter	Pavement striper
Carpet layer	Pipe fitter - sprinkler fitter
Cement mason	Pipe fitter, construction
Chimney repairer	Plasterer
Construction craft laborer	Plumber
Drilling machine operator	Pointer cleaner caulker
Dry-wall applicator	Pump erector, construction
Electrician	Reinforcing ironworker, concrete
Elevator constructor mechanic	Roofer
Elevator constructor	Sheet metal worker
Fence erector	Structural steel/ironworker
Field tech concrete/masonry inspector	Taper
Field tech soil/asphalt inspector	Terrazzo finisher
Floor cover installer	Terrazzo worker
Floor layer	Tile finisher
Furnace installer	Tile setter
Gas main fitter	Welder
Glazier	Welder fitter
Glazier, stained glass	Well drill operation, construction

Table 2.3 20Selected Construction-Related RegisteredApprenticeships in Iowa, 2009

²⁰ Table 2.3 is excerpted from Iowa Office of Apprenticeship (2010). Registered apprenticeships refer to training registered with the US Department of Labor's Office of Apprenticeship (OA) or a state apprenticeship agency recognized by Department of Labor. Registration is voluntary and requires that the program comply with standards governing program operations including admission, affirmative action, wages, performance, and assessment.

experience, and competency testing, moving enrollees over multiple years from apprentices to journey workers and master craft workers.

Workers also enter many construction trades without apprenticeships, through training in vocational schools or community colleges or less formal on-the-job experience. In addition, construction workers born outside the U.S. often bring craft skills acquired prior to immigration. When an occupation requires a state or local license or when hiring is limited to workers referred by a union, construction employers may have only limited discretion to judge individual workers' qualifications. However, in many other circumstances, in making decisions about hiring and work assignments, employers make their own assessment of individuals' qualifications.

The process of seeking construction work varies. For unionized construction contractors, the collective bargaining agreement between an employer and a union often specifies that the union will be the exclusive or priority source of workers to be employed on a project, with the employer having at most a limited right to reject individual workers referred to it. In this case, union members register with the union's "hiring hall" and are then referred for positions based on criteria such as seniority in the local or order of registration as out of work.²¹

In non-unionized situations, the job search process is generally more informal. Job seekers may present themselves at construction job sites, especially where contractors have posted "help wanted" notices. Workers may inquire among their friends, neighbors, family, and acquaintances about potential work; correspondingly, employers often "pass the word" among their current employees about vacancies and encourage them to refer individuals. Jobs seekers may also seek out "help wanted" announcements that employers place in newspapers, on the internet, or with construction training programs or public or private employment agencies.²² A characteristic common to these search methods is that they are more likely to work well for job seekers who have extensive networks of contacts with persons who are themselves well placed in construction work, have access to information about opportunities that are not publicly advertised, and can provide introductions that employers trust. Chapters 4 and 5 will discuss further the implications of this circumstance.

The construction industry employs the vast majority of workers in some construction occupations, such as insulation workers (91.7%). However, other industries -- including manufacturing, transportation, public utilities, real estate, and retailing -- also employ individuals in these occupations. For example, 56% of painters and paper hangers, 50% of floor covering installers, and 44% of carpenters are employed outside the construction industry.²³ This fact will prove important in Chapters 4 and 5, where

²¹ Union Democracy (2010).

²² US Bureau of Labor Statistics (2010C).

²³ US Bureau of Labor Statistics (2010C), p. 4.

employment in construction occupations in non-construction industries is used to benchmark employment patterns within the construction industry.

Construction Unions

Historically, construction has been one of the most unionized industries in the US private sector. However, the "union density"²⁴ varies substantially from location to location in the nation, reflecting both state laws²⁵ and other circumstance. Certain cities have long been recognized as centers of union strength -- for example, Boston, Chicago, Milwaukee, New York, San Francisco, and Seattle.

Even in these "union towns," the building trades have witnessed continuing erosion of union dominance over the past several decades. Nation-wide, the percentage of unionized construction work declined continuously from almost 50% in 1966 to less than 33% in 1983 and less than 15% in 2004.²⁶

Union construction workers almost universally receive higher wage rates than their non-union counterparts. In 2009, the median weekly earnings of full time unionized employees in construction and extraction industries was \$1,023, or 157% of the \$643 median for their non-union counterparts.²⁷ Union members are also substantially more likely to receive fringe benefits such as health insurance and pension contributions. Moreover, union members may benefit from monitoring of their work situation and advocacy on their behalf by shop stewards and other union officials. This monitoring may cover not only provisions of union-management collective bargaining agreements but also issues such as workplace safety and treatment of individual employees.

Table 2.4 lists some principal unions representing on-site construction workers.

²⁴ "Union density" is the number of workers currently enrolled in a union divided by the number of workers potentially enrolled.

²⁵ Twenty states have "right to work laws" limiting mandatory union membership or dues payments, and these laws are strongly associated with low union density (National Right to Work Legal Defense Fund, 2010).

²⁶ Erlich & Grabelsky (2005). See also Weil (2005).

²⁷ US Bureau of Labor Statistics (2010D), Table 4.

Table 2.4 ²⁸ Selected Unions Representing Construction Workers

(a) (b)		(c)	(d)
Construction Occupation	% of Workers who are Unionized	Largest Union	Membership, 2003
Ironworkers	61%	International Association of Bridge, Structural, Ornamental & Reinforcing Iron Workers	130,928
Sheet metal workers	32%	Sheet Metal Workers International Association.	148,378
Plumbers	29%	United Association of the Journeymen & Apprentices of the Plumbing & Pipefitting Industry of the U.S. & Canada	325,914
Electricians	27%	International Brotherhood of Electrical Workers	700,548
Operating engineers	25%	International Union of Operating Engineers	390,388
Brick masons	21%	International Union of Bricklayers & Allied Craftworkers	101,499
Truck drivers	19%	International Brotherhood of Teamsters	1,350,000
Carpenters	13%	United Brotherhood of Carpenters & Joiners of America	531,839
Laborers	11%	Laborers' International Union of North America	840,180
Painters	6%	International Association of Painters & Allied Trades	115,511
Plasters, cement masons	?	Operative Plasterers' and Cement Masons' International Association	39,763
Elevator installers	?	International Union of Elevator Constructors	25,000

Resistance to Change

An important general characteristic of the construction industry is the industry's resistance to change. To be sure, all industries have internal forces that tend to perpetuate current modes of operating. These forces commonly include firms' concerns about the

²⁸ Columns (a) and (b) are from CPWR (2007), Table 11. Columns (c) and (d) are from Working Life (2003) or union websites. Union membership figures include workers outside the construction industry and, in some case, outside construction occupations.

risks of untried approaches, the cumulative training and experience in established practices embodied in the current work force, and firms' investment in capital equipment designed to be operated in only certain ways. However, the construction industry is widely noted to be particularly slow moving, not only on employment matters but in essentially all aspects of its operations from building materials and technology to project management and budgeting practices. This style is so pervasive that it has earned construction the nickname "the industry that time forgot."²⁹

Within this generally conservative environment, three circumstances make the industry particularly slow to change employment practices.

The first circumstance is intense competition among firms. As Chapter Three will detail, the construction industry is numerically dominated by small businesses; in an industry of more than 750,000 companies, only about 500 firms have 500 or more employees. This proliferation of small enterprises reflects the relative ease of entry into the business associated with low fixed overhead and limited capital requirements. Employees can be hired and equipment leased only when needed, or their services can be flexibly acquired through subcontracting. Accordingly, construction offers more opportunities than most industries for individuals to own and run their own businesses.

When this ease of entry is combined with project owners' tendency to select the lowest cost bidder, the consequence is that competition is aggressive competition and low profit margins.³⁰ According to the 2007 Construction Industry Annual Financial survey, net profit margin before income taxes in construction averaged 2.7%, and the median return on assets was 8.8%, substantially below that in many other industries.³¹ In addition, it is not uncommon for construction contracts to contain explicit financial penalties for construction delays.

The combination of low margins, considerable likelihood for unexpected problems arising during project execution, and small firms shouldering large risks by undertaking large projects creates an often volatile financial outlook for construction

²⁹ The term is from LePatner (2007). See also Sabol (2007), pp. 1-14, and Prieto (2009). A recent illustration of the industry's tendency to adhere conservatively to established practices is provided by construction firms' strategic planning in today's recessionary economic climate (Fails, 2009). This study found that most contractors have not been explicitly assessing their industry context in preparation for challenging times and instead "...find themselves holding on to the strategy used during the glory days of the most recent market expansion."

³⁰ Mochtar & Arditi (2001). Indeed, profit margins are sometimes so low that they illustrate "the winner's curse." This phrase refers to instances of intense competition in which the only way a bidder wins is by underestimating costs to such an extent that the project will lose money for the winner (Dyer & Kagel, 2010).

³¹ CFMA (2007).

firms. Although successful projects can be financially very good for construction firms, bad projects can be very bad and readily lead to bankruptcy.³²

It is therefore not surprising that construction contractors tend to be intensely concerned to control construction costs, avoid project delays, and reduce operating risks.³³ As Chapter Four will discuss, many employers assume that female and minority employees are less competent to perform construction work, as well as potential sources of conflict and discord in the workplace. Applying the logic of cost control and risk minimization just described, such employers tend to avoid hiring these employees as a way to reduce the risk of potentially disastrous lower productivity or project delays. Such employers tend conservatively to favor employees whose past performance they know, or at least who look like employees whose past performance they know.

A second circumstance slowing changes in construction employment practices is the industry's focus on short term projects. Construction is "inherently a site-specific project based activity."³⁴ Each project requires "a unique combination of labor and material inputs, performed and coordinated onsite, lacking controlled factory environments."³⁵ Moreover, the workforce on one project tends not to remain together for subsequent projects, so that lessons learned on one project tend not to be remembered.³⁶ Accordingly, there is little tradition within the construction industry of continuous experimentation with production processes seeking incremental improvements such as is common, for example, in many manufacturing industries. Instead, construction firms tend to adhere as much as possible to standardized, "tried and true" work processes.

A related consideration working against innovations in construction practices is the complex structure of much construction work, typically involving coordination of workers in a number of different crafts, often working for different subcontractors or joint venture partners. If one firm's employees do not operate in the expected, standardized way, that deviation may disrupt sequencing and coordination with the work of others.³⁷ To avoid such disruptions, all parties involved in a construction project -- including project owners, general contractors, subcontractors, building inspectors, unions, and

³³ Weil (2005).

³² For example, cost overruns of 25-33% are not uncommon on projects that contractors have agreed to perform for a fixed price. With an 8% profit margin, a contract with a 33% cost overrun would more than wipe out all profits from four other projects of equal size (O'Neal & Berning, 2004, p. 12).

³⁴ Cox & Thompson (1997), p. 128.

³⁵ Welling & Kamann (2001), p. 1.

³⁶ Bjorkegren (1998), p. 110.

³⁷ Paap (2008), p. 379.

material suppliers -- rely on shared understandings of well-established, standardized construction practices.³⁸ In those circumstances, an innovative practice deviating from shared expectations, even if more efficient in itself, might create wider inefficiencies that more than offset its benefits.

Changes in employment practices, including the demographic characteristics of construction workforce, do not necessarily raise the same concerns about standardization and coordination as innovations in "hands on" construction operations. Nevertheless, they are influenced by the atmosphere created by pressures against disruptive changes in components of a complex system. In this spirit, employers might not only continue to hire workers of the same demographic background but also resist changes in employment practices covering, for example, recruitment sources, criteria for hiring, or enforcement of anti-discrimination policies.

A third and final circumstance slowing change in employment practices is the fragmented relationships between employers and on-site construction employees. As noted above, maintaining workforce flexibility by hiring employees only for specific projects offers the majority of construction firms an important way to manage their labor costs. However, from the employees' perspective, that practice makes their relationship with employers "dispersed, detached and discontinuous."³⁹ In consequence, employers usually have little incentive to get to know workers individually or assess their skills and potential accurately. Instead, decisions on matters such as hiring and work assignments are often made quickly and based on limited information, relying on quick terminations to remedy mistakes. As Chapters 4 and 5 will discuss, such decision-making tends to heighten the influence of stereotypes on those decisions, as well as limit the opportunity for experience with new types of workers to change employers' stereotypes.

Another aspect of this same circumstance is that construction employers generally consider human resource management procedures costs rather than investments, pay them little attention, and invest as few resources in them as possible. Authority to manage a project's workforce typically resides with the project's line manager whose primary concerns are costs, schedules, and customer satisfaction, and whose incentives tend to be as short term as the projects they supervise. "People-related" issues are, at most, a secondary priority.⁴⁰ Furthermore, these project managers seldom have any training in human resource management or professional human resources staff to assist them. In consequence, human resource management practices commonly adopted in other industries are often not applied in the construction industry.⁴¹

³⁸ The network of individuals holding these understandings and expectations in common is sometimes referred to as the "community of practice" (Gongla & Rizutto, 2001; Brown & Duguid, 1998, p. 91).

³⁹ National Economic Development & Law Center (1994), p. 6.

⁴⁰ Loosemore et al. (2003), p. 5.

⁴¹ Bielby (2008).

Chapters 4 and 5 of this report will explore further the effects of the industry's resistance to change on employment outcomes for women and minorities.

Chapter 3 Federal Contractors

To provide more detail than Chapter 2's overview, this chapter examines the number and size of construction firms nation-wide and the subset of those firms that are federal contractors. Within the chapter, the analyses most immediately applicable to policy issues are in the last section, titled "Analyzing Employee Coverage."

All Construction Firms

A number of databases -- including the U.S. Census Bureau's County Business Patterns, the Economic Census of the U.S., and the EEOC's "EEO-1" Job Patterns in Private Industry -- were reviewed for information on firms in the industry. Appendix Table E.1 in Appendix E summarizes key characteristics of these data sources. From this review, we conclude that, for portraying the overall industry, the U.S. Census Bureau's County Business Patterns (CBP) provides the best combination of broad industry coverage, recent information, and detailed data on firm size. CBP is updated annually, and at the time of this analysis, the most recent version was for 2008.

Nation-wide, 773,614 construction firms are listed in CBP for 2008, or 10.2% of the 7.6 million firms in all industries. Tables 3.1 and 3.2 report the distribution of these firms in terms of number of employees.¹

The most striking pattern revealed by these tables is the predominance of very small firms. According to Table 3.2, 65.1% of all construction firms -- essentially, two out of three -- have fewer than five employees, and 97.1% have fewer than 50.

This small firm predominance is evident throughout the sub-sectors of the construction industry examined in these tables and Appendix Tables E.2 and E.3. However, it is particularly evident in some sectors. For example, according to Appendix Table E.2, among Flooring Contractors, not a single firm out of 16,070 has 500 or more employees. In contrast, among Constructors of Oil and Gas Pipelines, 49 (2.5%) of 1,946 firms are that large. Generally, sectors such as Heavy and Civil Engineering and Construction of Non-Residential Buildings have higher proportions of larger firms than sectors such as Construction of Residential Buildings and Specialty Trade Contractors. However, no sector has a majority of large firms. Adding all types of construction firms together, only 539 construction firms nation-wide have 500 or more employees. The firms constitute 0.1% -- one tenth of one percent -- of all firms in the industry.

¹ Tables 3.1 and 3.2 are excerpted from Appendix Tables E.2 and E.3 in Appendix E.

Construction Firms, Nationwide, by Number of Employees, County Business Patterns 2008					
(a)	(b)	(c)	(d)	(e)	
	Ind	ustry Sector a	and NAICS Co	ode	
	236	237	238	23	
Number of Employees	Construction of Buildings	Heavy and Civil Engineering Construction	Specialty Trade Contractors	All Construction Firms	
1-4	71.9%	51.2%	63.2%	65.1%	
5-9	14.6%	17.3%	17.1%	16.3%	
10-19	7.5%	13.1%	10.3%	9.6%	
20-49	4.2%	10.7%	6.4%	6.0%	
50-99	1.2%	4.2%	1.9%	1.8%	
100-249	0.5%	2.5%	0.9%	0.9%	
250-499	0.1%	0.7%	0.2%	0.2%	
500-999	0.0%	0.2%	0.0%	0.0%	
1,000 +	0.0%	0.1%	0.0%	0.0%	
Total %	100.0%	100.0%	100.0%	100.0%	
Total Firms	232,634	48,030	492,950	773,614	

Table 3.1

Table 3.2 Construction Firms, Nationwide, by Number of Employees, **Cumulative Percentage** County Business Patterns 2008

(a)	(b)	(c)	(d)	(e)
	Ind	ustry Sector a	and NAICS Co	ode
	236	237	238	23
Number of Employees	Construction of Buildings	Heavy and Civil Engineering Construction	Specialty Trade Contractors	All Construction Firms
1-4	71.9%	51.2%	63.2%	65.1%
5-9	86.5%	68.5%	80.3%	81.4%
10-19	93.9%	81.6%	90.6%	91.0%
20-49	98.2%	92.4%	97.0%	97.1%
50-99	99.3%	96.5%	98.9%	98.9%
100-249	99.8%	99.0%	99.8%	99.7%
250-499	100.0%	99.7%	99.9%	99.9%
500-999	100.0%	99.9%	100.0%	100.0%
1,000 +	100.0%	100.0%	100.0%	100.0%

CBP data do not permit analysis of firm revenues parallel to Tables 3.1 and 3.2. However, a related analysis, presented in Table 3.3,² is consistent with the predominance of small firms just described. According to Table 3.3, firms with 1-4 employees, which Table 3.1 showed to account for 65.1% of all construction firms, average less than \$100,000 in annual revenues. Firms typically achieve revenues of \$1 million per year only when they have 20 or more employees, which describes only 9.0% of all construction firms nation-wide. At the top of the size spectrum, the only categories of firms reporting more than \$100 million in revenues all have 1,000 or more employees, a range in which Appendix Table E.2 reports only 162 firms nation-wide.

Table 3.3 Construction Firms, Nationwide, by Number of Employees, Average Firm Revenue County Business Patterns 2008

(a)	(b)	(c)	(d)	(e)
	Ind	ustry Sector a	ind NAICS Co	ode
	236	237	238	23
Number of Employees	Construction of Buildings	Heavy and Civil Engineering Construction	Specialty Trade Contractors	All Construction Firms
1-4	\$57,573	\$98,826	\$58,123	\$59,928
5-9	\$240,909	\$325,420	\$225,757	\$236,369
10-19	\$594,800	\$731,896	\$534,321	\$565,238
20-49	\$1,561,082	\$1,734,367	\$1,363,127	\$1,445,857
50-99	\$4,030,841	\$3,975,117	\$3,299,598	\$3,534,315
100-249	\$9,380,665	\$9,041,059	\$7,364,032	\$8,033,473
250-499	\$21,270,157	\$21,180,593	\$17,964,696	\$19,251,373
500-999	\$46,247,314	\$44,999,806	\$35,652,616	\$40,375,249
1,000 +	\$117,142,500	\$142,413,092	\$78,777,627	\$111,414,981
Overall Avg	\$336,465	\$1,198,189	\$400,162	\$430,554

While firms' revenues broadly correlate with their numbers of employees, the relationship tends to differ among sectors within construction. For example, the first row of Table 3.3 reports that, among firms with 1-4 employees, Constructors of Buildings and Specialty Trade Contractors each have average revenues of about \$58,000 per year, only about 58% as much as nearly \$99,000 reported for Heavy and Civil Engineering firms with the same number of employees. Presumably, this difference reflects the greater use of heavy, expensive equipment in the work of the latter firms than in the former -- the

² Table 3.3 is excerpted from Appendix Table E.4 in Appendix E.

difference between a carpenter doing building framing using a hammer and an equipment operator performing road building work with a bulldozer.³

The CBP data reported in Tables 3.1 through 3.3 include firms that are sole proprietorships -- that is, firms not legally organized as partnerships, for-profit "s" corporations, for-profit "c" corporations, or non-profit corporations. In construction, most firms organized as sole proprietorships are not very likely to seek federal contracts. Therefore, in Tables 3.4 - 3.6 and Appendix Tables E.5 - E.7, we repeat the analyses presented above excluding the more than 150,000 sole proprietorships previously included.

This change reduces the number of firms analyzed from the 773,614 noted at the bottom of Table 3.1 to the 623,332 referred to at the bottom of Table 3.4. The number of firms with fewer than five employees drops from the 65.1% reported in Table 3.1 to the 60.4% reported in Table 3.4. Average revenue per firm increases from the \$430,554 reported in Table 3.3 to the \$514,839 reported in Table 3.6. However, the overall patterns in the data discussed above remain essentially unchanged.

Table 3.4 Construction Firms, Nationwide, Excluding Sole Proprietorships, by Number of Employees, County Business Patterns 2008

(a)	(b)	(c)	(d)	(e)
	Ind	ustry Sector a	and NAICS Co	ode
	236	237	238	23
Number of Employees	Construction of Buildings	Heavy and Civil Engineering Construction	Specialty Trade Contractors	All Construction Firms
1-4	68.6%	48.1%	57.7%	60.4%
5-9	15.6%	17.8%	18.5%	17.6%
10-19	8.6%	14.0%	12.1%	11.1%
20-49	5.0%	11.7%	7.9%	7.3%
50-99	1.4%	4.6%	2.4%	2.2%
100-249	0.6%	2.7%	1.1%	1.0%
250-499	0.1%	0.7%	0.2%	0.2%
500-999	0.0%	0.2%	0.1%	0.1%
1,000 +	0.0%	0.1%	0.0%	0.0%
Total %	100.0%	100.0%	100.0%	100.0%
Total Firms	191,073	42,852	389,407	623,332

³ Economics refers to these differences as differences in the capital intensity of the production process or the capital-labor ratio.

Table 3.5 Construction Firms, Nationwide, Excluding Sole Proprietorships, by Number of Employees, Cumulative Percentage, County Business Patterns 2008

(a)	(b)	(c)	(d)	(e)
	Ind	ustry Sector a	and NAICS Co	ode
	236	237	238	23
Number of Employees	Construction of Buildings	Heavy and Civil Engineering Construction	Specialty Trade Contractors	All Construction Firms
1-4	68.6%	48.1%	57.7%	60.4%
5-9	84.2%	65.9%	76.3%	78.0%
10-19	92.8%	79.9%	88.4%	89.1%
20-49	97.8%	91.6%	96.2%	96.4%
50-99	99.2%	96.2%	98.6%	98.6%
100-249	99.8%	98.9%	99.7%	99.7%
250-499	99.9%	99.6%	99.9%	99.9%
500-999	100.0%	99.9%	100.0%	100.0%
1,000 +	100.0%	100.0%	100.0%	100.0%

Table 3.6

Construction Firms, Nationwide, Excluding Sole Proprietorships, by Number of Employees, Average Firm Revenue, County Business Patterns 2008

(a)	(b)	(c)	(d)	(e)
	Ind	ustry Sector a	nd NAICS Co	ode
	236	237	238	23
Number of Employees	Construction of Buildings	Heavy and Civil Engineering Construction	Specialty Trade Contractors	All Construction Firms
1-4	\$63,649	\$108,285	\$65,872	\$67,421
5-9	\$253,679	\$338,466	\$239,017	\$249,909
10-19	\$611,311	\$743,682	\$550,806	\$581,762
20-49	\$1,581,625	\$1,756,764	\$1,381,101	\$1,464,876
50-99	\$4,058,651	\$3,987,104	\$3,318,707	\$3,554,373
100-249	\$9,390,859	\$9,038,854	\$7,391,866	\$8,050,048
250-499	\$21,296,079	\$21,107,329	\$17,948,506	\$19,228,599
500-999	\$45,862,048	\$44,331,023	\$35,739,677	\$40,100,866
1,000 +	\$117,142,500	\$144,028,524	\$78,051,277	\$111,781,044
Overall Avg	\$394,066	\$1,310,206	\$486,574	\$514,839

Because sole proprietorships are not very likely to seek federal contracts, when CBP data are examined in the remainder of this chapter, we exclude sole proprietorships.

Firms Seeking Federal Contracts

Firms wishing to obtain contracts from the federal government must first register in the federal on-line Central Contract Registration (CCR). Table 3.7 describes the construction firms currently registered there. The table reports that 77,163 construction firms are entered in the CCR, 10.0% of the 773,614 construction firms reported in CBP for the entire industry.⁴

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Table 3.7							
Construction Firms, Nationwide,							
	by Number	of Employees	,				
Federal Central Contract Register 2010							
(a)	(b)	(c)	(d)				
Number of	Total Firms	%	Cumulative %				
Employees	Total Timis	70					
1-4	23,629	30.6%	30.6%				
5-9	14,239	18.5%	49.1%				
10-19	13,566	17.6%	66.7%				
20-49	13,197	17.1%	83.8%				
50-99	5,484	7.1%	90.9%				
100-249	100-249 3,448		95.3%				
250-499	1,281	1.7%	97.0%				
500-999 690 0.9%		97.9%					
1,000 +							
Total	77,163	100.0%					

Very small construction firms are much less prevalent among CCR construction registrants than among all firms in the construction industry. For example, in Table 3.4, firms with 1-4 employees accounted for 60.4% of all firms, but in Table 3.7, they are only 30.6%, approximately half the previous proportion. Conversely, large firms are substantially more prevalent among CCR registrants than in the construction industry as a

⁴ Table 3.7 excludes 17,903 CCR entries that we identified as probable duplicates because the firm name and state of incorporation were the same or the firm name, number of employees, and reported annual receipts were the same.

The CCR allows firms to list themselves in multiple industry sectors (NAICS codes) without designating any as its primary field of activity. Therefore, we cannot provide meaningful counts of CCR registrant firms by sectors within the construction industry.

whole. Firms with 100 or more employees accounted for 1.4% of firms in Table 3.4 but 9.1% of firms in Table $3.7.^{5}$

Table 3.8 reports average annual revenues (referred to in the CCR as "receipts") for CCR-registered construction firms.⁶ Not surprisingly, the table reports that average annual receipts for these firms are considerably larger than for all firms in CBP (excluding sole proprietorships) presented in Table 3.6. For example, among firms with 20-49 employees, the firms in Table 3.6 average \$1.5 million in revenues, while those in Table 3.8 average \$7.4 million, about five times as much. In part, these differences reflect differences in the types of firms registering for federal contract work, especially the disproportionate number specializing in Civil and Heavy Engineering. However, other differences between CCR-registered firms and non-registered firm may also play a role, such as differences in use of subcontractors.

⁵ While the general patterns just described can be relied upon, some caution should be exercised in citing the specific numbers on which they are based. As footnote 4 noted, firms can list themselves in CCR under multiple NAICS codes, thereby creating multiple records in the CCR for a single firm. Although we attempted to eliminate firm records we judged to be duplicates, this process was undoubtedly imperfect.

Moreover, our efforts to address a different deficiency in CCR data were probably even less successful. The concern here is firms listed in the CCR under one or more construction NAICS codes and also under non-construction codes that represent a non-construction primary line of business. One example is Home Depot. As an employer with hundreds of thousands of employees, Home Depot would appear in the CCR counts in Table 3.7 as a construction firm because it offers some construction services. However, it would not be counted as a construction firm in CBP, which would classify it under its main activity of retailing. The count of large firms in the CCR is particularly vulnerable to this sort of over-inclusion. Therefore, for primarilyconstruction firms, the CBP count of 162 firms with 1,000 or more employees is likely to be more accurate than the 1,629 firms of that size in the CCR (see Table 3.14).

⁶ Table 3.8 reports average annual receipts per employee after eliminating the top and bottom 1% of these firms as outliers. We believe that eliminating the top 1% (above \$3 million per employee) primarily excludes holding companies, while eliminating the bottom 1% (below \$2,000 per employee) primarily eliminates firms with incompletely reported incomes.

Table 3.8
Construction Firms, Nationwide,
by Number of Employees,
Average Annual Receipts
Federal Central Contract Register 2010

(a)	(b)
Number of Employees	Average Annual
Number of Employees	Receipts
1-4	\$415,529
5-9	\$1,314,581
10-19	\$2,990,789
20-49	\$7,368,538
50-99	\$16,568,995
100-249	\$39,410,499
250-499	\$111,570,025
500-999	\$218,219,613
1,000 +	\$4,447,585,770
Overall Avg	\$102,791,678

Firms Currently Holding Federal Contracts

Only a subset of the firms registered in the CCR as interested in obtaining federal contracts hold such awards at any moment. Those that do appear in both the CCR and a second system, the Federal Procurement Data System (FPDS). Unfortunately, only holders of prime contracts are listed in this latter system, not subcontractors.

Tables 3.9 and 3.10 profile construction firms listed in FPDS in terms of their reported number of employees.⁷ These data refer to 2009, the most recent year currently available. The tables reveal continuation of the trend toward increasing firm size already evident by comparing Tables 3.1, 3.4, and 3.7. According to Table 3.9, firms with fewer than five employees account for only 22.6% of construction firms in the FPDS. Correspondingly, larger firms account for an increasing proportion. However, despite their increasing prominence, large firms remain in the minority. For instance, firms with 100 or more employees account for 14.1% of all construction firms in FPDS. This proportion is substantially greater than the 9.1% in CCR and 1.1% in CBP, but it still amounts to only one FPDS-listed construction firm in seven.

⁷ These tables are extracted from Appendix Tables E.8 and E.9 in Appendix E.

Table 3.9 **Construction Firms, Nationwide,** by Number of Employees, Federal Procurement Data System 2009 (a) (b) (c) (d) (e) **Industry Sector and NAICS Code** 236 23 237 238 Number of Heavy and Specialty All Employees Construction Civil Construction Trade of Buildings Engineering Contractors Firms Construction 18.1% 24.8% 22.6% 1-4 21.7% 5-9 14.9% 15.2% 17.2% 16.3% 10-19 18.2% 16.9% 17.7% 17.7% 20-49 21.2% 19.8% 20.1% 19.5% 50-99 10.3% 10.3% 8.7% 9.4% 100-249 7.5% 7.0% 5.2% 6.1% 250-499 3.3% 3.2% 2.0% 2.6% 500-999 1.7% 2.0% 1.2% 1.5% 1,000 +4.6% 4.4% 3.4% 3.9% Total % 100.0% 100.0% 100.0% 100.0%

Table 3.10 Construction Firms, Nationwide, by Number of Employees, Cumulative Percentage, Federal Procurement Data System 2009

2,954

8,210

14,679

Total Firms

3,515

(a)	(b)	(c)	(d)	(e)
	Industry Sector and NAICS Code			
	236	237	238	23
Number of Employees	Construction of Buildings	Heavy and Civil Engineering Construction	Specialty Trade Contractors	All Construction Firms
1-4	18.1%	21.7%	24.8%	22.6%
5-9	33.1%	36.8%	42.0%	38.8%
10-19	51.3%	53.7%	59.7%	56.5%
20-49	72.5%	73.2%	79.5%	76.5%
50-99	82.8%	83.4%	88.2%	85.9%
100-249	90.4%	90.5%	93.4%	92.1%
250-499	93.7%	93.6%	95.4%	94.6%
500-999	95.4%	95.6%	96.6%	96.1%
1,000 +	100.0%	100.0%	100.0%	100.0%

Tables 3.9 and 3.10 also document differences in the size of FPDS-listed firms in different types of construction work. According to these tables, Specialty Trade Contractors tend to be smaller than Heavy and Civil Engineering Construction contractors. That pattern is the same as in Table 3.4 for CBP. However, in contrast to Table 3.4, Table 3.9 shows Specialty Trade contractors to be somewhat larger than Building Construction firms. This difference between CBP and FPDS may reflect the fact that relatively few federal contracts are for *residential* building construction, a principal activity under non-government funding for larger firms in the Construction of Buildings sector.

Table 3.11 reports firms' average annual revenues by employee size group.⁸ Here, patterns similar to those shown industry-wide in Table 3.6 are seen once again. These patterns include a correlation between firms' average revenues and their number of employees and differences among construction sectors in average revenues per employee. The table also reports higher average revenues among current federal contractors than among all construction firms and all CCR construction registrants. For instance, among firms with 100-249 employees, the average FPDS registrant in Table 3.11 had annual revenues of about \$42.1 million, compared to \$39.4 million for the average CCR registrant in Table 3.8 with the same number of employees.

Table 3.11
Construction Firms, Nationwide,
by Number of Employees,
Average Firm Revenue,
Federal Procurement Data System 2009

(a)	(b)	(c)	(d)	(e)
	Industry Sector and NAICS Code			
	236	237	238	23
Number of Employees	Construction of Buildings	Heavy and Civil Engineering Construction	Specialty Trade Contractors	All Construction Firms
1-4	\$764,441	\$491,664	\$435,371	\$509,495
5-9	\$2,020,793	\$1,457,641	\$1,272,580	\$1,471,960
10-19	\$3,867,061	\$3,338,816	\$2,722,563	\$3,123,793
20-49	\$9,626,684	\$7,137,627	\$5,659,514	\$6,953,476
50-99	\$19,464,428	\$17,246,262	\$12,805,163	\$15,531,950
100-249	\$66,204,160	\$37,222,832	\$29,567,046	\$42,143,419
250-499	\$159,939,149	\$108,329,676	\$88,538,558	\$115,704,075
500-999	\$405,958,093	\$245,396,053	\$212,754,181	\$276,081,344
1,000 +	\$3,001,223,571	\$5,627,930,099	\$7,671,725,922	\$5,895,732,317
Overall Avg	\$160,024,836	\$262,598,345	\$272,379,715	\$243,507,069

⁸ Appendix Tables E.10-E.14 in Appendix E provide more detailed revenue figures for FPDS firms. The same elimination of outliers described in footnote 6 was applied to FPDS data.

Where do Construction Employees Work?

So far, this chapter has analyzed the proportion of construction *firms* with different numbers of employees. We now turn to a related but different question: What proportion of construction *employees* work in firms of different sizes?

Data to answer this question are available in both the CCR and the FPDS, and, with some assumptions, can be constructed for CBP. However, these figures require important adjustments before they produce meaningful estimates.

As footnote 5 discussed using the example of Home Depot, for firms that engage in both construction and non-construction work, CCR and FPDS data do not distinguish revenues and employment related to construction from those in their other lines of business.⁹ This limitation probably does not distort revenue and employment figures substantially for smaller construction firms, since such firms tend to engage in construction as their sole product line. However, for the largest firms in the industry -specifically, those reporting 1,000 or more employees -- it is likely to over-state their share of construction employment substantially.

An indication of the degree of over-statement is provided by the following comparison. If we take employment reported in the FPDS at face value, firms with 1,000 or more employees account for 94.8% of all construction employment. But 94.8% is a proportion out of 12.4 million total employees reported by FPDS construction contractors.¹⁰ Twelve million construction employees for firms holding federal construction contracts is not a plausible figure because the U.S. Bureau of Labor Statistics estimates employment for the entire construction industry, including both federal contractors and all other firms, at 7.2 million.¹¹

Because of these data limitations, we can reasonably estimate the proportion of workers at firms of different sizes only by adjusting the reported employment in large firms. We need to constrain the distorting effects of firms like Home Depot, whose listing in the FPDS reports 270,000 employees, the vast majority of whom work in retailing rather than construction (see footnote 5). Equally, we need to constrain the distorting effects of firms such as Skanska, which derives two-thirds of its construction revenues outside the United States.¹²

¹² Skanska (2010).

⁹ For purposes of this report, both CCR and FPDS data have two additional limitations. One is that employee counts may not be limited to work conducted in the United States. The other is that employment figures include administrative, professional, sales, and technical employees of these firms, not just on-site construction workers. Although both limitations tend to increase employee *numbers*, they are less likely to distort the *proportion* of employees at firms of different sizes, which is our primary focus.

¹⁰ These figures are computed in Appendix Tables E.15 and E.16 in Appendix E.

¹¹ US Bureau of Labor Statistics (2010A), p. 3. This figure excludes the self-employed.

To do so, we adjust FPDS data using two assumptions. First, we assume that in both the CCR and the FPDS, 162 firms fall into the 1,000+ size range, a figure computed in Appendix Table E.2 from CBP data for the construction industry as a whole. Second, we assume that in the FPDS, the average number of employees per firm in the 1,000+ category is 11,721, computed in Table 3.14 later in this chapter.¹³ Multiplied together, these assumptions produce an estimate that construction firms with 1,000 or more employees have 1,898,737 total employees. Combined with the approximately 650,000 employees reported in the FPDS for employers with fewer than 1,000 employees, that suggests that construction firms with federal contracts employ 2,554,713 workers, a figure not inconsistent with the estimated 7.2 million workers in the industry as a whole.

Tables 3.12 and 3.13 report the proportions of these 2.5 million workers in firms of different sizes. For firms with fewer than 1,000 employees, the figures in these tables are taken directly from Appendix Table E.16 in Appendix E. For firms with 1,000 or more employees, the figures incorporate the adjustments just discussed. But even after these adjustments, the predominant role of large firms in FPDS-reported construction employment is clear. According to these tables, among all construction firms in the FPDS, those with 1,000 or more employees employ 74.3% of all employees in firms currently holding federal contracts. The tables further report that firms with 100 or more employees employ 90.4% of all such workers, and firms with 50 or more employees employ 94.1%.

¹³ This 11,721 figure seems plausible, given the following employment numbers reported in the FPDS or other public sources for some of the largest construction firms: Bechtel: 48,000; Fluor: 35,000; Skanska: 32,000; Turner 29,000; Kellogg Brown & Root Services: 21,000; Kiewit, 17,000; Cushman and Wakefield: 12,000; and Parsons Infrastructure: 11,000. The remaining 162 construction firms with 1,000 or more employees typically have fewer employees than the well-known firms just listed.

by Number of Employees,					
	Federal Procurement Data System 2009				
(a)	(b)	(c)	(d)	(e)	
	Ind	ustry Sector a	and NAICS Co	ode	
	236	237	238	23	
Number of Employees	Construction of Buildings	Heavy and Civil Engineering Construction	Specialty Trade Contractors	All Construction Firms	
1-4	0.5%	0.2%	0.4%	0.3%	
5-9	0.5%	0.4%	1.0%	0.6%	
10-19	2.5%	1.0%	1.7%	1.4%	
20-49	6.6%	2.6%	4.6%	3.6%	
50-99	6.9%	3.0%	4.4%	3.6%	
100-249	11.3%	4.4%	6.0%	5.2%	
250-499	11.3%	4.8%	5.2%	5.0%	
500-999	12.0%	6.2%	6.2%	5.9%	
1,000 +	48.5%	77.3%	70.6%	74.3%	
Total %	100.0%	100.0%	100.0%	100.0%	
Total Employees	351,482	669,509	1,070,879	2,554,713	

Table 3.12 Construction Employees, Nationwide,

Table 3.13 (Ascending) Construction Employees, Nationwide, by Number of Employees, **Cumulative Percentage Ascending,** Federal Procurement Data System 2009

(a)	(b)	(c)	(d)	(e)
	Industry Sector and NAICS Code			
	236	237	238	23
Number of Employees	Construction of Buildings	Heavy and Civil Engineering Construction	Specialty Trade Contractors	All Construction Firms
1-4	0.5%	0.2%	0.4%	0.3%
5-9	1.0%	0.6%	1.3%	0.9%
10-19	3.4%	1.6%	3.1%	2.3%
20-49	10.0%	4.2%	7.7%	5.9%
50-99	16.9%	7.2%	12.1%	9.6%
100-249	28.2%	11.7%	18.1%	14.7%
250-499	39.5%	16.5%	23.3%	19.7%
500-999	51.5%	22.7%	29.4%	25.7%
1,000 +	100.0%	100.0%	100.0%	100.0%

Table 3.13 (Descending) Construction Employees, Nationwide, by Number of Employees, Cumulative Percentage Descending, Federal Procurement Data System 2009

(a)	(b)	(c)	(d)	(e)
	Industry Sector and NAICS Code			
	236	237	238	23
Number of Employees	Construction of Buildings	Heavy and Civil Engineering Construction	Specialty Trade Contractors	All Construction Firms
1-4	100.0%	100.0%	100.0%	100.0%
5-9	99.5%	99.8%	99.6%	99.7%
10-19	99.0%	99.4%	98.7%	99.1%
20-49	96.6%	98.4%	96.9%	97.7%
50-99	90.0%	95.8%	92.3%	94.1%
100-249	83.1%	92.8%	87.9%	90.4%
250-499	71.8%	88.3%	81.9%	85.3%
500-999	60.5%	83.5%	76.7%	80.3%
1,000 +	48.5%	77.3%	70.6%	74.3%

Tables 3.12 and 3.13 also report that these proportions vary somewhat among the three major subsectors of the construction industry. For example, firms with 1,000 or more employees account for only 48.5% of workers for Constructors of Buildings, compared to 77.3% of workers for Heavy and Civil Engineering firms. However, the general pattern of overwhelming dominance by larger firms applies to all three sectors.

In contrast to Tables 3.12 and 3.13 based on the FPDS, Table 3.14 analyzes firms in the CCR -- that is, all firms registering an interest in receiving federal contracts. Table 3.14 is based directly on CCR data except that, for the same reasons a parallel adjustment was made in Table 3.12, the number of firms with 1,000 or more employees is set to 162. This adjustment produces an estimate of total employees in construction firms in the CCR of 4.4 million, which falls reasonably between the 2.5 million employees in firms listed in FPDS and the 7.2 million employees in firms in the entire construction industry excluding sole proprietors.

As Tables 3.12 and 3.13 did for firms in the FPDS, Table 3.14 demonstrates that, among construction firms in the CCR, the majority of workers are employed at larger firms. However, the concentration of employees at these firms is less pronounced in the CCR than in the FPDS. According to Table 3.14, firms with more than 1,000 employees account for 43.3% of workers in CCR-listed firms; firms with 100 or more employees account for 75.2%; and firms with 50 or more employees account for 83.5%.

Table 3.14 Adjusted Construction Firms, Nationwide, By Number of Employees, Adjusted Average Employees per Firm, Federal Central Contract Registration, 2010

(a)	(b)	(c)	(d)	(e)	(f)
Number of Employees	Total Firms	Total Employees	%	Cumulative %	Average Employees per Firm
1-4	23,629	55,563	1.3%	100.0%	2.4
5-9	14,239	92,439	2.1%	98.7%	6.5
10-19	13,566	177,630	4.1%	96.6%	13.1
20-49	13,197	395,872	9.0%	92.6%	30.0
50-99	5,484	366,388	8.4%	83.5%	66.8
100-249	3,448	507,737	11.6%	75.2%	147.3
250-499	1,281	430,342	9.8%	63.6%	335.9
500-999	690	460,463	10.5%	53.8%	667.3
1,000 +	162	1,898,737	43.3%	43.3%	11,720.6
Total	75,696	4,385,171	100.0%		57.9

In Table 3.15, average employees-per-firm figures from the CCR are used to create employee counts by employee size group in a still broader set of construction firms -- all firms reported in CBP excluding sole proprietorships. In this table, within each employee size group, the number of firms from the CBP is multiplied by the average employees per firm from the CCR to estimate employees for that size group.

Table 3.15 portrays a distribution of employment in the total construction industry much broader than that based on either the FPDS or the CCR. Larger firms are far less dominant, with firms of 1,000 or more employees now accounting for only 22.2% of all employment. In fact, three groups of firms with widely differing sizes each employ very roughly one-third of workers in the industry:

- firms with fewer than 20 employees -- 30.1%
- firms with 20 to 249 employees -- 39.0%
- firms with 250 or more employees -- 30.7%

Table 3.15

Construction Firms, Nationwide, Excluding Sole Proprietorships, by Number of Employees, Estimated Total Employees County Business Patterns 2008

(a)	(b)	(c)	(d)	(e)	(f)
Number of Employees	Total Firms	CCR Average Employees per Firm	Total Estimated Employees	%	Cumulative %
1-4	376,504	2.4	885,340	10.6%	100.0%
5-9	109,685	6.5	712,070	8.6%	89.4%
10-19	69,447	13.1	909,323	10.9%	80.8%
20-49	45,300	30.0	1,358,870	16.3%	69.9%
50-99	13,949	66.8	931,938	11.2%	53.6%
100-249	6,523	147.3	960,548	11.5%	42.4%
250-499	1,400	335.9	470,319	5.6%	30.8%
500-999	366	667.3	244,246	2.9%	25.2%
1,000 +	158	11,720.6	1,851,858	22.2%	22.2%
Total	623,332	279.7	8,324,510	100.0%	

Using these Data to Analyze Coverage

In this section, we bring together counts of firms and counts of employees to examine issues of "coverage." This term refers to the proportion of firms and workers affected by an employment requirement stated in terms of firm size -- for example, a requirement that EEO-1 reports must be filed by federal contractors with 50 or more employees. Typically, the higher the cutoff -- for example, if the EEO-1 reporting requirement applied to firms with 100 or more employees rather than 50 – the fewer employees will be covered while the fewer firms will be required to comply. Conversely, the lower the cutoff -- for example, a requirement that EEO-1 reports be filed by federal contractors with 20 or more employees rather than 50 -- the more employees will be covered while the more firms will be required to comply.

Table 3.16 calculates coverage of firms and employees based on construction firms in the FPDS. According to this table:

- A requirement covering firms with 100 or more employees would encompass 90.4% of workers employed by federal construction contractors listed in the FPDS (2.31 million workers) while requiring compliance from 11.6% of such firms (1,652 companies).
- A requirement covering firms with 50 or more employees will encompass 94.1% of workers employed by federal construction contractors listed in the FPDS (2.40 million workers) while requiring compliance from 21.3% of such firms (3,032 companies).

• A requirement covering firms with 20 or more employees will encompass 97.7% of workers employed by federal construction contractors listed in the FPDS (2.49 million workers) while requiring compliance from 41.9% of such firms (5,976 companies).

Table 3.16Construction Employees and Construction Firms,
Nationwide, by Number of Employees,
Cumulative Counts and Percentages,
Federal Procurement Data System 2009

(a)	(b)	(c)	(d)	(e)
Number of	Emplo	oyees	Fir	ms
Employees	Cumulative	Cumulative	Cumulative	Cumulative
Employees	Count	Percent	Count	Percent
1-4	2,554,713	100.0%	14,268	100.0%
5-9	2,546,714	99.7%	10,954	76.8%
10-19	2,530,714	99.1%	8,568	60.1%
20-49	2,494,715	97.7%	5,976	41.9%
50-99	2,402,719	94.1%	3,032	21.3%
100-249	2,310,722	90.4%	1,652	11.6%
250-499	2,178,727	85.3%	754	5.3%
500-999	2,050,732	80.3%	378	2.6%
1,000 +	1,898,737	74.3%	162	1.1%

If the FPDS encompassed both prime contractors and their subcontractors, then Table 3.16 would provide a definitive measure of coverage. However, as noted earlier in this chapter, firms are included in the FPDS database only when they hold a prime contract, and as noted in Chapter 2, many construction firms operate only as subcontractors, especially with respect to projects as large as many federal construction projects. An analysis of coverage is needed that adjusts Table 3.16 to take account of coverage of subcontractor employees.

Estimating the number of "subcontractor only" firms and their employees is a challenge because no database provides the data required for an exact analysis. If every firm in the construction industry were involved in federal contracting, either as a prime contractor or a subcontractor, then industry-wide data from CBP could be used. However, most firms in the construction industry, especially smaller ones, are *not* federal contractors, either as prime contractors.

Compared to under-inclusive FPDS data and over-inclusive CBP data, the CCR offers a relatively attractive alternative. According to Table 3.17, construction firms listed in the CCR employ approximately 4.4 million workers. Thus, to the 2.5 million employees in construction firms in the FPDS, the CCR adds an additional 1.9 million workers who might be assumed to be employed by holders of federal subcontracts but not prime contracts.

The strongest argument for using the CCR to represent federal contractors and subcontractors is that it is explicitly designed as a place for potential federal contractors to register. Thus, firms listed there have self-identified themselves as both interested in, and capable of, federal work. The only federal subcontractors likely to be missing from CCR-registered firms should be firms seeking federal subcontracts that would *never* consider pursuing federal prime contracts.

Counter-balancing the potential under-count of firms discussed in the previous paragraph, firms listed in the CCR and not in the FPDS may over-count federal subcontractors by including firms that express interest in federal contracts but are not capable of winning any or performing if they did win. Some firms such as this are undoubtedly found among the 77,000 construction registrants in the CCR. However, to the extent that they are relatively few or relatively small, they would not distort employee counts substantially. Moreover, since the CCR is subject to both over-inclusion and under-inclusion, potential errors should at least partially offset each other.¹⁴

Based on the above rationales for assuming that the CCR provides a reasonable count of federal construction contractors plus subcontractors, Table 3.17 reports the coverage of firms and employees estimated from that source. According to that table:¹⁵

• A requirement covering firms with 100 or more employees would encompass 75.2% of employees of federal construction contractors, prime and subs (3.3 million workers) while requiring compliance from 7.4% of those firms (5,581 companies).

¹⁴ Some evidence suggesting that the result is a reasonably accurate estimate is provided by the following comparison. Suppose that all potential federal subcontractors that are never prime contractors are in the Specialty Trades subsector of the industry, are not sole proprietors, and have fewer than 1,000 employees. According to CBP data in Table E.5 in Appendix E, such firms have about 4.7 million total employees. Therefore, an estimate that 1.9 million employees work for firms that are federal subcontractors but never federal prime contractors implies that about 40% of such "potential" federal subcontractors are federal subcontractors, while 60% are not. Although no comparison data is available to which these figures can be directly compared, these proportions seem plausible.

¹⁵ The number of firms presented in Table 3.17 and the "bullet" paragraphs that surround the table include both prime contractors and their subcontractors, thereby treating both types of firm as being involved in meeting a federal requirement. However, if a requirement were imposed only on prime contractors who then bore responsibility for compliance for both themselves and their subcontractors, then the number of firms required to comply with the requirement would be smaller than those stated in the table and these paragraphs. In fact, it would be the numbers in Columns (d) and (e) of Table 3.16 rather than the counterpart columns in Table 3.17. This difference would not change the number of workers covered, which in either case should be those reported in Columns (b) and (c) of Table 3.17.

Table 3.17

Construction Employees and Construction Firms, Nationwide, by Number of Employees, Adjusted Cumulative Counts and Percentages, Federal Central Contract Registration, 2010

(a)	(b)	(c)	(d)	(e)
	Empl	oyees	Fir	ms
Number of Employees	Cumulative Count	Cumulative Percent	Cumulative Count	Cumulative Percent
1 – 4	4,385,171	100.0%	75,696	100.0%
5 – 9	4,329,608	98.7%	52,067	68.8%
10 – 19	4,237,169	96.6%	37,828	50.0%
20 – 49	4,059,539	92.6%	24,262	32.1%
50 – 99	3,663,667	83.5%	11,065	14.6%
100 – 149	3,297,279	75.2%	5,581	7.4%
150 – 249	3,078,331	70.2%	4,094	5.4%
250 – 499	2,789,542	63.6%	2,133	2.8%
500 - 999	2,359,200	53.8%	852	1.1%
1,000 +	1,898,737	43.3%	162	0.2%

- A requirement covering firms with 150 or more employees would encompass 70.2% of employees of federal construction contractors, prime and subs (3.1 million workers) while requiring compliance from 5.4% of those firms (4,094 companies).
- A requirement covering firms with 250 or more employees would encompass 63.6% of employees of federal construction contractors, prime and subs (2.8 million workers) while requiring compliance from 2.8% of those firms (2,133 companies).

It is not possible to determine how close these CCR-based estimates are to the precise number of federal construction prime contractors and subcontractors, nor whether they over-estimate or under-estimate the number. However, these figures from Table 3.17 represent the best estimates that can be provided with available data.

Chapter 4 Utilization of Women

This chapter first estimates the extent to which women are under-represented in on-site construction occupations in the construction industry. It then discusses attitudes and employment practices in the industry underlying that under-representation.

Numerical Estimates

Throughout this report, the terms "under-utilization" or "shortfall" are used synonymously to refer to the presence of fewer women in an occupation than would be expected given their availability.¹ Three well-established databases can be used to estimate the availability and utilization of women, from which under-utilization can be computed.²

Census 2000

The first database is the "EEO Special Tabulation" (also referred to as the "EEO Data Tool") provided by the U.S. Census Bureau under contract with OFCCP and three other federal agencies. The most recent version currently available is based on the 2000 Census.³

This source provides data on the utilization of women in 27 on-site construction occupations, together employing 4.9 million workers nation-wide in 2000. Table 4.1 reports data from this source for the 10 largest of these occupations, as well as the sum of all 27; the ten occupations reported in the table accounted for about 89% of all on-site construction employment in the construction industry at that time.

¹ See US OFCCP (2009B). However, in this report, the term "under-utilization" does not correspond in all details to the definition in that source. Specifically, in this report, it refers to situations in which the rate of employment of a demographic group is less the expected representation and does not reserve that term to situations where that under-representation in employment has been determined to be "statistically significant" using computational procedures set forth in that OFCCP document.

 $^{^2}$ In Chapter 6, under-utilization calculated in Chapters 4 and Chapter 5 will be cited to justify replacing the availability figures cited in these two chapters with those calculated with a new methodology. However, to cite under-utilization calculated with the new methodology to justify the new methodology would be circular reasoning. Therefore, Chapters 4 and 5 discuss only estimates derived using well-established, more traditional methodology.

³ The database is available at <u>http://www.census.gov/hhes/www/eeoindex/eeoindex.html</u>.

Table 4.1 4Female Utilization in On-Site ConstructionOccupations in the Construction Industry,
2000 Census EEO Special Tabulation

(a)	(b)	(c)	(d)
Occupation	Construction Industry	All Other Industries	Under- Utilization
Carpenters	1.5%	3.8%	- 2.2%
Laborers	3.2%	4.7%	- 1.5%
Electricians	2.0%	3.3%	- 1.4%
Painters	6.8%	9.7%	- 3.0%
Pipelayers & plumbers	1.5%	2.3%	- 0.8%
Equipment operators	1.9%	2.2%	- 0.3%
Roofers	1.5%	3.6%	- 2.1%
Brick & stone masons	1.0%	3.8%	- 2.9%
Drywall installers	2.5%	6.5%	- 4.0%
Floor installers	2.2%	3.1%	- 0.9%
27 occupations	2.6%	4.7%	- 2.0%

Column (b) of the table reports that actual utilization of women in on-site construction occupations in the construction industry averaged 2.6% and ranged as low as 1.0%.⁵ Column (c) then provides comparison figures for these *same* occupations *outside* the construction industry. These latter figures average 4.7% and are never lower than 1.7%.

It is reasonable to assume that the job requirements and working conditions within an occupation, although not identical, are largely similar between the construction industry and other industries where women practice the same trades. In that circumstance, it is reasonable to treat Column (c) as a benchmark measure of expected representation for women's employment in construction, also sometimes referred to as a "standard of availability."

Applying this benchmark, Column (d) of Table 4.1 states the difference between Columns (c) and Column (b). It reports that women are substantially under-utilized throughout the construction industry. Women are under-utilized in 26 (96.3%) of the 27

⁴ Table 4.1 is extracted from Appendix Table A.1 in Appendix B.

 $^{^5}$ Other researchers have produced estimates similar to these figures. For example, according to one study, the representation of women in the construction trades ranged between 1.9% in 1983 and 2.4% in 2002. See DRC & ERA (2004).

occupations analyzed.⁶ For the 27 on-site construction occupations combined, the shortfall is 2.0%, a figure more than three-quarters as large as the actual utilization of 2.6%. When the 2.0% shortfall rate is applied to the 4.9 million workers in the construction industry in 2000, the shortfall totals 100,597 "missing" women construction workers.⁷

American Community Survey

The second data source from which under-utilization can be analyzed is the American Community Survey conducted in 2006-2008 (ACS 2006-2008). The ACS is a new data collection system first implemented by the U.S. Census Bureau in 2005 to replace the former practice of collecting detailed social and economic "long form" data in the decennial Census.⁸ The Census Bureau intends eventually to issue a new EEO Special Tabulation based on ACS data collected over the five years 2006-2010. However, that release is currently not expected to occur until 2012. For the meantime, using ACS data over the three years 2006-2008 which the Census Bureau has released, we created an "interim" ACS-based update parallel to that in the EEO Special Tabulation based on the 2000 Census.

Table 4.2 presents a utilization analysis parallel to that in Table 4.1 but based on these more recent data. It shows women constituting 3.0% of workers in on-site construction occupations in the construction industry, 0.4% higher than the 2.6% in 2000. However, the utilization of women in construction occupations in industries other than construction rose even more over the same period, from 4.5% to 5.4%. Accordingly, the under-utilization of women in the construction industry increased between 2000 and 2006-2008, from the 2.0% reported in Table 4.1 to 2.5%.

Women are under-utilized in 24 (88.9%) of the 27 occupations analyzed in Table 4.2.⁹ The overall under-utilization shown in the table -- 2.5% -- is 83% as large as the 3.0% actual utilization reported there. When the 2.5% shortfall rate is applied to the average of 8.5 million workers in the construction industry in 2006-2008,¹⁰ the shortfall totals 210,611 "missing" women construction workers in the industry.¹¹

 $^{^{6}}$ The exception is Paperhangers, where women are utilized at a higher rate in the construction industry than in other industries. This occupation accounts for 0.3% of on-site construction workers in the industry.

⁷ See the bottom row of Column (p) of Appendix Table A.1.

⁸ The ACS is described at <u>http://www.census.gov/acs/www/index.html</u>.

⁹ The exceptions are Cement masons, Paperhangers, and Boilermakers. Together, these three occupations account for 1.5% of on-site construction workers in the construction industry.

¹⁰ This figure includes self-employed individuals as well as wage and salary employees.

¹¹ See the bottom row of Column (p) of Appendix Table B.1.

Table 4.212Female Utilization in On-site ConstructionOccupations in the Construction Industry,
American Community Survey 2006-2008

(a)	(b)	(c)	(d)
Occupation	Construction Industry	All Other Industries	Under- Utilization
Laborers	3.6%	6.0%	- 2.5%
Carpenters	1.7%	4.3%	- 2.6%
First level supervisors	3.1%	4.0%	- 0.9%
Painters	8.0%	11.7%	- 3.6%
Electricians	1.8%	4.1%	- 2.3%
Pipelayers & plumbers	1.5%	2.5%	- 1.0%
Equipment operators	2.1%	4.0%	- 1.9%
Roofers	1.5%	3.4%	- 1.9%
Brick & stone masons	1.0%	2.6%	- 1.6%
Drywall installers	2.8%	5.6%	- 2.9%
27 occupations	3.0%	5.4%	- 2.5%

ACS data can also be used to examine a more detailed pattern in the employment utilization of women -- the so-called "glass ceiling" effect. As Chapter 2 discussed, traditional career paths in the construction trades often have workers first employed as laborers or helpers and then, after acquiring skills through some combination of formal training and on-the-job experience, move to more skilled, better paid occupations. In formal apprenticeships, this progression is typically from officially-identified apprentices to journeymen to master craft workers, but the same progression applies even when skill development is less formally structured. A "glass ceiling" is present when some demographic groups (for example, men) follow this progression at a higher rate than other groups (for example, women), with the latter group disproportionately remaining in entry-level positions.

The most rigorous way to test for glass ceilings involves identifying a cohort of men and women with similar backgrounds and abilities who start work together and tracing their career paths over subsequent years. Such analysis is beyond the scope of this study. However, a simpler analysis provides an alternative indication of the same patterns. This analysis compares the representation of women and men at different levels in the "hierarchy" of occupations; a glass ceiling is signaled by a falling proportion of women at successively higher occupational levels.

Table 4.3 presents such an analysis for 25 on-site construction occupations where earnings data are readily available as a measure of occupational status. The table divides

¹² Table 4.2 is extracted from Appendix Table B.1 in Appendix B.

these occupations into three groups: the ten construction crafts with the highest average earnings, averaging more than \$40,000 per year; 13 occupations generating an intermediate level of earnings, averaging between \$30,000 and \$40,000 per year; and the entry level occupations of laborers and helpers, paying between \$25,000 and \$30,000 per year. According to the table, women account for 1.8% of the best-paid occupations, less than half their 3.8% representation in the entry-level occupations. Similarly, women account for 2.4% of the "intermediate-level" occupations, less than two-thirds their representation in the entry-level occupations. Iss than two-thirds their ceiling." Thus, while relatively few women are found in any construction occupations, they are even rarer in "higher level" positions and disproportionately concentrated at the entry level.

(a)	(b)	(c)	(d)
Category Examples		Annual Earnings	% Women
10 best-paid occupations	Electricians Plumbers	\$40,000 - \$80,000	1.8%
13 intermediate-level occupations	Drywall installers Equipment operators	\$30,000 - \$40,000	2.4%
2 entry-level occupations	Laborers Helpers	\$25,000 - \$30,000	3.8%

Table 4.313Representation of Women in Construction Occupations
Grouped by Earnings, ACS 2006-2008

EEO-1 Data

A third source of data is EEO-1 reports collected annually by the U.S. Equal Employment Opportunity Commission from all private sector employers with 100 of more employees (50 employees for federal contractors).¹⁴

Compared to the previous two sources, EEO-1 data have the disadvantage of not including employees of smaller firms. They also have the limitation of reporting not individual occupations but rather three broader groups -- skilled craft workers, semi-skilled operatives, and unskilled laborers. However, they have the advantage of

¹³ Table 4.3 is excerpted from Appendix Table B.9 in Appendix B.

¹⁴ US Equal Employment Opportunity Commission (201); US Equal Employment Opportunity Commission (2006); Bendick (2000).

providing data for sub-sectors of the industry, allowing separate analyses of the three sectors described in Chapter 2 -- Construction of Buildings, Civil and Heavy Construction, and Specialty Trade Contractors.

The most recent publicly-released EEO-1 data are for 2008, and these are summarized in Table 4.4. According to Column (c) of this table, in that year, women industry-wide account for 1.8% of workers in skilled construction crafts, 3.4% of semi-skilled operatives, and 4.3% of laborers. These figures are consistent with the previous two data sources in reporting that women constitute only a small proportion of on-site construction workers in the industry.

(a)	(b)	(c)	(d)	(e)
Occupational Group	Construction Sector	Actual Women	Expected Women	Under- Utilization
	All construction	1.8%		- 6.8%
Skilled	Construction of buildings	1.8%	0.00/	- 6.8%
craft workers	Heavy construction	2.3%	8.6%	- 6.3%
Workere	Specialty trades	1.6%		-7.0%
	All construction	3.4%		-22.2%
Semi-skilled	Construction of buildings	5.3%	25.6%	-20.3%
operatives	Heavy construction	3.6%	25.0%	-22.0%
	Specialty trades	2.6%		-23.0%
	All construction	4.3%		-28.4%
Unskilled laborers	Construction of buildings	3.9%	22.70/	-28.8%
	Heavy construction	6.2%	32.7%	-26.5%
	Specialty trades	3.2%		-29.4%

Table 4.4 15Female Utilization in Selected Occupations in the Construction
Industry in 2008, EEO-1 Reports

In Table 4.4's Column (d), the expected representation of women is based on the same three broad occupational groups -- skilled craft workers, semi-skilled operatives, and unskilled laborers -- in five "blue collar" industries other than construction: agriculture, forestry, and fishing; mining; manufacturing; transportation; and warehousing. As in construction, craft, operative, and laborer positions in these industries typically require physical strength and may involve uncomfortable or hazardous working conditions. They also typically place craft workers, operatives, and laborers in a "blue collar atmosphere" rather than, for example, the typically cleaner, calmer, more comfortable conditions of office work. However, as a later section of this

¹⁵ Table 4.4 is extracted from Appendix Table C.1 in Appendix C.

chapter will discuss, they do not share the worksite culture or daily workplace practices or institutions of the construction industry itself.

In parallel to Tables 4.1 and 4.2, Table 4.4, reports that women are consistently under-represented in construction industry employment compared to their representation in these other "blue collar" industries. ¹⁶ Despite the sometimes "rough and tumble" environment and physical demands of the industries examined, women account for as much as 32.6% of craft, operative, and laborer employees in these comparison industries, in sharp contrast to counterpart figures for women in construction which vary between 1.6% and 6.2%.

According to Table 4.4, under-utilization of women is universal across the three construction subsectors for which separate data are available. For example, in the heavy construction sector, the under-utilization is 6.3% among skilled craft workers, 22.0% among semi-skilled operatives, and 26.5% in unskilled laborers.

Shortfalls are also universal among the three types of on-site type construction positions examined. For all constructions sectors combined, women are short 6.8% among craft workers, 22.2% of semiskilled operatives, and 28.4% of unskilled laborers. Moreover, Column (c) of Table 4.4 reports consistently decreasing representation of women with increasing skill levels of the occupation; for all construction combined, the representation of women falls from 4.3% among unskilled laborers to 3.4% among semi-skilled operatives and then to 1.8% among skilled craft workers. This pattern is consistent with the "glass ceiling" observed in ACS 2006-2008 data.

According to Appendix Table C.1 in Appendix C, the number of "missing" women construction workers totals 153,725, which is the sum of 42,931 "missing" skilled craft workers, 36,730 "missing" semi-skilled operatives, and 74,064 "missing" unskilled laborers. These figures are consistent with the 210,611 shortfall estimated using ACS 2006-2008 in the same time period, since the ACS figures are based on all construction employers, while the EEO-1 figures encompass only firms large enough to file EEO-1 reports.

Rates of Change

Because EEO-1 reports have been collected in a generally consistent format since the mid-1970s, this data set can document employment changes over nearly 35 years. Table 4.5 reports EEO-1 data on the shortfall between expected and actual representation for all construction between 1975 and 2008. It shows that under-utilization of women

¹⁶ According to Appendix Table B.1, ACS 2006-2008 reports 8,529,387 persons employed in onsite construction occupations. According to Appendix Table C.1, the comparable figure for onsite construction employees in EEO-1 reports (adding together craft workers, operatives, and laborers) total 1,057,927. The latter figure is 12.4% of the former. Dividing the 50,213 shortfall calculated from EEO-1 data by the 388,000 shortfall estimated from ACS 2006-2008 yields a figure of 12.9%. The similarity of 12.4% and 12.9% calculated from two unrelated data sets enhances the credibility of these estimates.

either has remained essentially unchanged over that period or has increased. To summarize this lack of change, we can use the average annual rates of change in the bottom row of Table 4.5 to project an expected date by which, at the rate of change observed on the past 33 years, under-utilization of women will be eliminated. Since over this period, the under-utilization for craft workers and laborers has increased rather than decreased, the expected date at which shortfall will disappear is "never." For operatives, the rate of closure of two one-hundredths of one percent implies that the 27.6% under-utilization observed in 2008 will require more than 1,000 years to be eliminated.

Year	Skilled Craft Workers	Semi-skilled Operatives	Unskilled Laborers
1975	- 6.1%	- 28.4%	- 29.9%
1980	- 8.1%	- 26.7%	- 30.7%
1985	- 7.5%	- 26.6%	- 29.0%
1990	- 7.3%	- 26.9%	- 23.9%
1995	- 7.5%	- 26.6%	- 28.6%
2000	- 8.8%	- 24.9%	- 29.1%
2008	- 9.8%	- 27.6%	- 31.4%
Average annual rate of change	- 0.11%	+ .02 %	05%

Table 4.517Shortfall of Women in Selected Occupations in the Construction
Industry, 1975-2008, EEO-1 Reports

This pattern of little or no decrease in under-utilization over time is confirmed by comparing the shortfall in Census data for 2000 in Table 4.1 to that in 2006-2008 reported in Table 4.2. Taking the figures in the bottom row of these tables for all 27 construction occupations together, we see that over the approximately seven years between 2000 and 2006-2008, utilization of women increased from 2.6% to 3.0%, a rate of increase of about six one-hundredth of one percentage point a year. At that rate, the utilization of women in construction crafts will reach the level expected today in about 250 years, while that expected today in craft and laborer positions will be achieved in about 750 years.

Summary of Numerical Estimates

In this chapter, we have analyzed data from three data sources that differ in a number of ways:

• Time periods (2000, 2006-2008, and 2008);

¹⁷ Table 4.4 is extracted from Appendix Table C.6 in Appendix C.

- Coverage (all construction workers, those employed by larger firms);
- Categorization (separate occupations, occupational groups, industry subsectors); and
- Comparison benchmarks (all other industries, "blue collar" industries).

Despite these differences, there is clear consensus among all these analyses on five key points:

- 1. Women are substantially under-represented among on-site construction workers in the construction industry compared to standard measures of their expected representation.
- 2. This under-representation corresponds to a large number of "missing" women construction workers in the industry. The most recent complete data -- from the ACS 2006-2008 -- estimate this number at 210,611 women.
- 3. The under-utilization is not limited to subsets in the industry but is widespread, and in many ways essentially universal.
- 4. In a classic "glass ceiling" pattern, this under-utilization is greater for higher-level construction occupations than for entry-level ones. And
- 5. The under-utilization does not appear to be diminishing significantly over time, and may even be increasing.

In the remainder of this chapter, we draw upon a range of scholarly research to interpret the causes of these employment outcomes.

Attitudes and Practices Underlying these Outcomes

In Chapter 2, we examined how the economic logic of the construction industry works against rapid evolution of employment practices. We saw how the industry's dependence on short term projects, as well as other economic and operational considerations, limited incentives for, and opportunities for, change. In those circumstances, continued under-utilization of women in the construction trades is perhaps not unexpected.

However, under-utilization of women is not simply another instance of resistance to innovations throughout "the industry that time forgot." It is also rooted in the individual psychology and organizational dynamics of prejudice and discrimination that scholarly research over several decades has documented to be broadly shared, deeply rooted, and frequently expressed in construction workplaces today. Manifested in daily work life, these attitudes and practices underlie the under-representation documented in this chapter.

The Dominant Workplace Culture in Construction

Discussion of these attitudes and practices should begin with the concept of workplace culture. Formally defined, a workplace culture is the set of attitudes, norms, and values common to the persons and organizations in a workplace. Less formally, it is simply "the way things are done around here."¹⁸

Workplace cultures vary along a continuum which at one end may promote equal employment opportunity, workplace fairness, and employee inclusion, or at the other end, sustain the opposite. The dominant workplace culture in the construction industry falls clearly into the latter category. In the words of one researcher:¹⁹

The single largest contributor to women leaving the construction industry -- and women failing to choose construction as a viable career -- was the culture.

Other researchers have portrayed this circumstance using the words of construction women themselves. The following examples are from a study published in 2010:²⁰

- "Despite the gains, the battle for complete acceptance is for many ongoing. Not a week goes by without someone asking Rosana Privitera Biondo, president of Mark One Electric Co, Inc. why one of her three brothers, who serve as vice presidents, is not in charge."
- "I went to one meeting of the ASA (American Subcontractors Association) and when we walked in, those men expected us to run the bake sale," said Robin Fulton Meyer, president of The National Association of Women in Construction (NAWIC).
- "Sometimes I feel like I've really made it," says Kern, who is President of the Women Construction Owners & Executives USA (WCOE). "You forget about it and then something happens and it's a shock to the system, God, I thought I was over that."

Researchers have also documented the influence of this culture using recent developments in the state of California. During the 1980s, state law mandated affirmative action for state contractors, including construction firms. Researchers

¹⁸ Bendick, Egan & Lofhjelm (2001).

¹⁹ Menches, et al. (2007), p. 703.

²⁰ Gerth (2010), pp. 1-2.

concluded that these requirements increased job opportunities for women in construction, especially where there was added judicial, advocacy, or community pressure to set and enforce hiring goals.²¹ Between 1990 and 1996, the percentage of women employed in the California construction industry rose 26%.²²

In 1996, California voters passed Proposition 209 eliminating affirmative requirements in state contracts. This change "put a virtual stop to the slow progress women were making into traditionally male occupations, such as carpentry, electrical work and plumbing." In California, the proportion of women among construction workers dropped 33% between 1996 and 2001, through substantial increases in male employees while the number of women ceased growing. In addition, between 1994 and 2003, the number of women in apprenticeship programs in California decreased by 41%.²³ Based on interviews with actors in the construction industry, researchers attributed these numerical reverses to: ²⁴

- apathy towards diversifying the workforce;
- barriers to breaking into the "old boy's network" to learn about job opportunities; and
- attitudes that women do not belong in the trades.

Ironically, resistance to hiring women has persisted even in the face of substantial long-term shortages of skilled construction workers. For example, the U.S. Department of Labor's Employment and Training Administration (ETA) has projected that an additional one million workers will be needed in the construction industry during 2002-2012,²⁵ while the Construction Users Roundtable (CURT) found nearly 50% of the major construction trades to be experiencing a critical shortage of workers.²⁶ However, in these analyses, women and minorities are discussed primarily in terms of the inability of the industry to attract women and minorities rather than as sources of ready talent to address these shortages.²⁷

²³ DRC (2004), p.18.

²⁴ DRC (2004), p. 35.

²⁵ US ETA (2004).

²⁶ CURT (2006).

²¹ Price (2002), p. 106. See also Holzer & Neumark (2000).

²² DRC (2004), p. 1. Here, employee counts included clerical and janitorial employees along with construction craft workers and laborers.

²⁷ Construction Industry Institute (2003).

Negative Stereotypes

The studies just discussed suggest a dominant attitude that women simply do not belong in construction. As one researcher put it, "*what* a woman does for a living is less important than *where* she does her job."²⁸ If the "where" is anywhere in the construction trades, then the woman is seen as out of bounds.

According to research, such attitudes are likely to characterize any occupation that has long been dominantly or exclusively male because such a history creates a culture that is an extension of "male culture." The pattern is also likely to be seen when workplaces are currently numerically dominated by men because that circumstance "heightens the visibility of, and hostility toward, women workers who are perceived as violating male territory."²⁹ The construction industry is characterized by *both* these circumstances predisposing industries to resistance.

Expressions of this resistance commonly incorporate some or all of three themes.

The first of these themes is stereotypes about women's ability to perform construction work. A stereotype is a generalized belief about a group of individuals that is incorrectly applied to judging individuals within that group.³⁰ Thus, for example, the *correct* statement that the average woman is less strong than the average man can be *incorrectly* applied to presume that any women is not sufficiently strong to meet the requirements of any construction job. Negative stereotypes commonly cited to justify not hiring women in construction hold that all women lack the competence, physical strength and stamina, or sustained commitment to do the work.³¹

Such stereotypes operate with particular force in the construction industry because of the operational circumstances and pressures described in Chapter 2. Why would a contractor risk raising costs through shoddy work or risk upsetting a project's complex task sequence by hiring workers stereotypically perceived to be unpredictable and incompetent? To do so would work against the contractors' primary objectives -- to get the project completed on time, on budget, and to the satisfaction of the project owner. For example, in electrical contracting work studied by one researcher:³²

²⁸ Gruber (1998), p. 303. See also LaFontaine & Tredeau (1986) and Loy & Stewart (1984).

²⁹ Gruber (1998), p. 303. For parallel experiences in other male-dominated "blue collar" fields such as firefighting, policing and mining, see Hulett et al.(2008), Scarborough (2002), Hagan (2002), and Scripps (2006). On women's employment experiences in "non-traditional" occupations more generally, see Kanter (1977), Leidner (1993), Pierce (1995), and Fonow (2003).

³⁰ Gilovich, Keltner & Nisbett (2006), p. G8.

³¹ Paap (2008), Chun et al. (2009).

³² Moccio (2009), p. 101.

By all accounts, ...the greatest opposition to women on the job site comes from small contractors. These employers focus on getting the job finished on time. Hostage to the high cost of loans and materials, they demand a high rate of productivity. They believe that women are less skilled....They expect that women may have to take time off to care for a sick child, or may become pregnant, or need time off during their periods. They fear that women are just not up to the job.

To some extent, these negative assumptions are specific to women. However, negative attitudes about women's abilities to perform construction work are often reinforced by stereotypes that the only reason women are hired is affirmative action, and *any* employee brought in through affirmative action -- minorities, women, persons with disabilities, or anyone else -- is an inferior employee.³³ This sentiment was typically illustrated at a meeting in 2003 at which affirmative action goals were being set for the Denver Parks and Recreation Department. In this meeting, a department employee stated that "the [affirmative action] goals were zero because we want this done right....This is a complicated project and we want it done right....we can't have mistakes....so we can't have any goals on this."³⁴

A second theme is that the presence of women on a construction site creates sexual tension that interferes with productivity. Employers may consider women a disruptive force site because of the 'flirtation factor,"³⁵ distracting their male co-workers from working efficiently and safely. In addition, women are sometimes accused of trading sexual favors to male bosses for plum job assignments, promotions and overtime.³⁶

A third theme commonly used to support excluding women from construction employment is that women do not really want construction jobs but instead want "women's" jobs. One researcher found that the male construction workers believed that women "aren't really construction workers; they're just working construction to find a man, to prove a point, or to set up the average working man for an unfair harassment lawsuit."³⁷ This stereotype also implies that women will be unreliable employees because they are not seriously committed to construction work, and it is not worthwhile to train them for skilled positions because they will leave their construction careers when they get married or pregnant.

³³ Paap (2006), pp. 61-64.

³⁴ NERA (2006), p. 206.

³⁵ Moccio (2009), p. 101.

³⁶ Moccio (2009), p. 162.

³⁷ Paap (2006), p. 79.

Some researchers focus on such stereotypes as a problem in themselves, the reasons women are excluded. Other researchers consider these stereotypes more as justifications cited by managers, supervisors and co-workers whose motivation for exclusion is more fundamental. In this latter interpretation, male employees exclude women from construction employment to maintain "social closure" -- that is, to preserve their "in-group" privilege and social comfort -- against any "out-groups" seeking their well-paid jobs.³⁸ In that circumstance, although stereotypes might be cited to justify exclusion of women, the stereotypes are only a means to a more fundamental end -- defending against a threat to the long-standing privilege of the dominant in-group.

This dynamic is most transparent when not employing women in construction is justified because women are "taking jobs that men deserve." As Chapter 2 discussed, the construction industry offers opportunities for individuals with little or no post-secondary education to command middle class earnings. These opportunities have long been valued, and they are increasingly so as such opportunities continue to shrink in the American labor market. Women are unwelcome competition for employment opportunities that "insiders" feel should be theirs.³⁹ This way of thinking is sometimes expressed as reserving these positions for men who have families to support.

A variant on the same theme arises because of the common tradition in the construction industry of passing job opportunities and job knowledge from fathers to sons or nephews. As one researcher summarized the process, "Family ties and long-standing tradition remains strong in the trades, and the gateway to entry is patrolled by insiders who are suspicious of change"⁴⁰ This tradition has long played a pivotal role in maintaining the clustering of certain gender and race groups within various trades, forming "occupational niches."⁴¹ In being seen as a disruption to these traditions, employment of women is sometimes seen in even more emotionally-laden terms than simply competition for jobs. They are seen to threaten family values and traditions.

A somewhat more subtle version of the same psychological dynamic focuses on male employees rejecting women because women doing the same jobs they are threatens their masculinity. Simply put, women's presence is seen as devaluing men's work. Construction is "a man's job," and some men in construction have negative reactions to the presence of female co-workers because they believe that their presence automatically devalues the importance and distinctiveness of their occupations.⁴²

³⁸ Murray (1988); Bendick & Nunes (in press, 2011).

³⁹ Eisenberg (1998); Moccio (2009), p.164.

⁴⁰ Price (2002), p. 102.

⁴¹ Waldinger (1996) ; Toussaint-Comeau et al. (2005).

⁴²DCA (2005); Martin & Jurik (2007); O'Farrell & Harlan (1982); Ragins & Sundstrom (1989).

Hostility, Harassment, and Lack of Help

The psychological and organizational processes just discussed are not mere theory. Every day, they get translated into practical barriers to employment of women on construction sites. Maintaining a hostile, harassing, unfriendly, and uncooperative workplace wears down, intimidates, and drives women away from where they are not wanted.

This hostility is often expressed in shunning and isolation of women workers by their co-workers on construction sites. Lack of routine helpfulness -- failing to share useful information with fellow workers or assist them in tasks requiring teamwork -- makes construction work more difficult and therefore less attractive.⁴³ Such behavior tends to be more prevalent, intense, explicit, and uncontrolled in on-site construction work than in work situations in other industries.⁴⁴

The process of exclusion often begins at the gateways to construction careers, including apprenticeships. The number of women who receive construction craft training through registered apprenticeship programs, always low, dropped from 4.5% in 1995 to 2.8% in 2003.⁴⁵ This low representation is maintained in large part by control of the inflow of trainees into these programs.⁴⁶ In the admission process, personal introductions, referrals, recommendations, and favorable assessments may, consciously or unconsciously, be reserved for male applicants. In addition, information about how and when to apply may be selectively made available only to "insiders." For example, one study reported that "…Operating Engineers for years only opened their program for two weeks during the year, during which only family members would know to apply."⁴⁷

These same personal networks involved in getting into the trades are also important in finding work once qualified.⁴⁸ Gender differences in access to information about project hiring opportunities, as well as referrals and recommendations, can make

⁴⁵ Berik & Bilginsoy (2006), p. 328.

⁴³ Menches & Abraham (2007), Moccio (2009). See also Schroedel (1985); Gluck (1987); Martin (1988), Aronowitz (1992); Ferguson (1994); Eisenberger (1998); Roediger (1999); and Swann (no date).

⁴⁴ For example, Mansfield et al. (1991) found that women in the trades faced higher rates of harassment (60%) than clerical workers (6%). In addition, Post (2003) reported that female tradeswomen sustain insult, injury and indignity more than female design and construction professionals.

⁴⁶ Gender differences in retention rates among apprentices is also an issue; see Berik & Bilginsoy (2006).

⁴⁷ Price (2002), p. 103.

⁴⁸ Price (2002); Granovetter & Tilly (1988); Granovetter (1985).

major differences in earnings and advancement, and therefore in men's and women's continued employment in construction.⁴⁹

The barriers to construction employment that women encounter are not limited to the lack of helpfulness just described. Women also commonly find themselves subjected to hostile behavior bluntly intended to drive them out.⁵⁰ The following excerpts from recent research illustrate harassment and hostility in daily work life on construction sites:⁵¹

- In construction, mild jokes and horseplay are a common part of welcoming younger workers into construction work. However, this initiation process often works differently for male and female workers. Jokes for male apprentices normally are related to their work (e.g., requests to find a sky hook or a left handed wrench). For women, the jokes are sexual in nature, designed to "redraw the boundaries between insiders and outsiders." One researcher reported that during her two and a half years as a construction worker, only three jokes were related to her as a worker, while all the rest were sexual. These jokes were intended to maintain distinctions between her and other workers who were men.⁵²
- In the construction industry, "Male workers often try to rid the work site of women workers by vulgar displays of pornography or inappropriate jokes or language."⁵³
- "... I explained why I didn't think there should be a drinking party with a stripper on a union jobsite." "Just because we have to take you in," the steward said, "doesn't mean anything has to change because you're here."⁵⁴
- In construction, "Women are more apt to be touched, grabbed, or stalked. Men are also more apt to physically mark their work environments with sexually objectifying material."⁵⁵

⁵¹ Additional illustrations are reported at ENR (1998), p. 26,, and the litigation summarized in Appendix D.

⁵² Paap (2008), p. 69.

⁵³ Moccio (2009), p. 162.

⁴⁹ Menches & Abraham (2007), p. 702.

⁵⁰ Jacobs (1989), p. 62; Padavic and Reskin (1990); Walshok (1981); Aga (1984); Swerdlow (1989); Yount (1989).

⁵⁴ Eisenberg (1998), p. 69.

⁵⁵ Gruber (1998), p. 314.

- "It's an unfortunate fact of life that a number of men in this field [carpentry] do feel threatened by a woman whose skill and work ethic outstrip their own.... I have seen some [women] driven from shops when the males feel threatened..."⁵⁶
- Hostile behavior toward women, including that involving serious risk of injury, has been documented for a number of different trades.⁵⁷ These incidents range from isolation and veiled threats to physical harassment and direct intimidation. Particularly chilling are accounts of supposed "workplace accidents" which were actually physical attacks. In one incident, an electrician journey worker during construction of the Javits Convention Center in New York City, was beaten and raped.⁵⁸
- "I was deliberately set up, actually, on two occasions. Once I had circuits turned on when I was trimming out receptacles in a high-rise office space. I don't know who turned the circuits on. Another time I'd been hooking up fire alarm exit signs and I went back to check some. I was up at a light exit sign, and someone had actually tied the ground wire into the hot wire on the other end of the Scotchlok and as I was taking it out, someone turned it on and it blew up in front of me."⁵⁹

The more severe such harassment, the more severe its physical or psychological harm. However, even relatively mild forms have adverse consequences for women's personal well-being⁶⁰ and the likelihood that they continue to work in construction. For example, a survey of 657 members of the National Association of Women in Construction found that the psychological climate of gender inequity is negatively related to their satisfaction and career commitment and positively related to their turnover intentions.⁶¹

Toleration of Hostile Behavior

To be sure, the most extreme of the above examples are relatively rare. However, they are clearly not unknown. Furthermore, the less dramatic ones -- such as

⁵⁸Moccio (2009), p. 163.

⁵⁹ Eisenberg (1998), p. 85.

⁶⁰ Schneider et al. (1997); Crull (1982).

⁶¹ King et al. (2009), p. 503. See also Sanchez & Brock, 1996; Gutek (1985); Loy & Stewart (1984); Morrow et al. (1994); and U.S. Merit Systems Protection Board, (1981).

⁵⁶ "Women in Woodworking" (2006).

⁵⁷ Paap (2009); Schroedel (1985); Martin (1988); Eisenberg (1998); Ferguson (1994).

pornography, isolation, and failure to provide the same information and help routinely provided to men -- are not at all rare.

Equally importantly, when such problems do arise, women commonly find that they have few resources to which they can turn for assistance, where they can lodge complaints, or on which they can rely to prevent future recurrence. Women's isolation is particularly evident in terms of the absence of three types of potential support.

The most obvious support system that is absent is women co-workers. The low numbers of women in construction means that, in most worksites where women are present at all, they work in isolation from each other. That circumstance, in turn, exposes women to the heightened visibility and pressure common to individuals who are the "token" or isolated representative of their group.⁶² It also means that they cannot provide assistance substituting for the lack of support from male co-workers. And it means that they do not form a "critical mass" sufficient in number to force changes in the workplace.⁶³

The experience of being chronically an isolated pioneer is illustrated in one study as follows:⁶⁴

"I went out and busted my heinie every day and made a name for myself," says Tawny Sayers, a single mom who graduated from Renton Technical and worked laying concrete and pipe for eight years.... "It's very physical work and a lot of women don't want to get dirt under their fingernails or listen to foul-mouthed men, but that's what a woman's gotta do if she wants to make it.... As a woman, I was always under the microscope. I couldn't sit around like the guys. I had to work harder than they did to earn their respect."

While not being able to rely on support from female co-workers, women in construction also cannot commonly rely on support from male co-workers. To be sure, not every man working in construction supports the oppositional culture that dominates the industry. Some men welcome women and provide collegial support.⁶⁵ However, research documents that they are in the minority.

⁶² King (2009); Young & James (2001); Kanter (1977).

⁶³ Post (2003); Eisenberg (1998), p. 4.

⁶⁴ Kadish (2005). The pressures on isolated women construction "pioneers" are further illustrated in Walshok (1981); Martin (1988); Ferguson (1994); Eisenberg (1998); Carlson (1999); Paap (2008); and Moccio (2009). The experiences documented in the earliest of these writings, from the 1970s and 1980s, are strikingly similar to those reported in recent years.

⁶⁵ For a description of such male "exceptions to the rule," see Eisenberg (1998), pp. 97-109.

Furthermore, men who may personally feel supportive, or at least neutral, toward women co-workers, often face social pressure not to publicly oppose the dominantly hostile behavior. Although they may treat women fairly in their own interactions, peer pressure means that they may remain silent about the behavior of others. Intervening to stop hostility might incur the wrath of the union or the foreman with the power to allocate work assignments or lay workers off.⁶⁶ One researcher describes the effects of such processes of social control as follows:⁶⁷

I was struck by the contrasting public pressures for racist, sexist and homophobic sentiments (or at the very least a neutral façade at their expression) and the somewhat more tolerant selves revealed in private.

The third type of missing support for women construction workers is that of "official" mechanisms to control or correct hostile, harassing, or discriminatory behavior. Potentially, such assistance might be provided by:

- project managers or other supervisors working on the construction site;
- human resource officials of the employing firms;
- owners of the construction project and their on-site representatives; or
- shop stewards and other union officials.

However, in practice, women typically find that these actors do not offer assistance either proactively or in response to complaints. They may "turn a blind eye" and ignore the situation, or sometimes they themselves may be active participants.⁶⁸ Such failures of "official" mechanisms to protect women construction workers are illustrated in the following examples drawn from recent litigation:⁶⁹

- In a 2005 litigation settlement, substantial financial damages were paid by both a construction contractor and a construction management firm after they allegedly failed to respond to a woman bricklayer's complaints of sexual harassment and instead retaliated by firing her.
- In 2006, a Missouri jury found in favor of a woman construction driver/tool runner who alleged that she had been sexually harassed by her foreman.

⁶⁶ Moccio (2009), p. 165.

⁶⁷ Paap (2008), p. 81.

⁶⁸ Moccio (2009), p. 164; King et al. (2009), p. 509.

⁶⁹ These cases are summarized in rows (3), (18), (19), (32), (34), (36) and (38) of Appendix Table D.2 in Appendix D.

- In 2007, the Seventh Circuit Court of Appeals upheld a verdict in favor of a woman whose union refused to provide her on-the-job training to become a licensed construction elevator operator.
- In a 2009 litigation settlement, a construction contractor paid substantial damages after it allegedly failed to provide restroom facilities at a construction worksite, forcing women to urinate outside in public.
- In 2007, an Indiana jury found in favor of a woman millwright/welder whose union refused to place her on the referral list for job opportunities.
- In a 2009 litigation settlement in Texas, a drywall company paid substantial financial damages to a woman laborer it allegedly fired in retaliation for her complaints about sexually explicit remarks and graffiti.
- In 2010, a New York court found that the New York Department of Transportation failed to hire women as bridge painters solely because they were women.

Such lack of responsiveness by co-workers and officials is often partially maintained by rationalizations that such behavior is justified because, in today's legal and social climate, it is men rather than women who are being discriminated against and attacked. These rationalizations tend to follow one or more of three basic lines of thinking:⁷⁰

- <u>Affirmative action harms men.</u> Regardless of how or why they actually were hired, women construction workers are often automatically associated with affirmative action, and affirmative action is condemned as unfair to men. In this reasoning, affirmative action is seen as interfering with an employment system that, in its absence, is fair and merit-based, depriving men of jobs they deserve and forcing them to compensate for incompetent fellow workers. Passive or active acts of sexism are an appropriate reaction to such unfairness.⁷¹
- <u>Women cause the problems</u>. A related justification for treating women construction workers badly is that the women themselves are the cause of discrimination problems in construction workplaces because if they were not there, these issues would not arise. The women disrupted a smoothly-functioning, friendly way of life on the job. They therefore have brought hostile responses on themselves.⁷²

⁷⁰ Paap (2008), pp. 387–388.

⁷¹ Paap (2008), p. 64.

⁷² Paap (2008), p. 97. In the same spirit, women report that when they complain about harassment, they become labeled as "toxic," and that reputation follows them from site to site.

• <u>Women unfairly accuse men</u>. Another variant focuses on women as overly sensitive to slights and inherently hostile to men, leading them to unfairly accuse innocent, well-intentioned male workers. Therefore it is unnecessary and unreasonable to respond to these accusations. "Zero tolerance" policies are unjust and overly punitive, stacking the deck against the average man "just for telling an inappropriate joke." Along these lines, women complaining about mistreatment often report being told that "it's just the way he is" or "don't let it bother you" or "get used to it."⁷³

⁷³ Paap (2008); Eisenberg (1998), p. 77.

Chapter 5 Utilization of Minorities

Paralleling the previous chapter on women, this chapter examines the utilization of African Americans, other racial minorities, and Hispanics.¹ Thus, the chapter first estimates the extent to which racial/ethnic minority groups are under-represented in onsite construction occupations in the construction industry. It then discusses attitudes and employment practices in the industry underlying that under-representation.

Numerical Estimates for African Americans

African Americans constitute the largest racial minority group nation-wide, accounting for 11.5% of the Civilian Labor Force.²

As with women, the first source of information we analyze is the "EEO Special Tabulation" based on the 2000 Census. Table 5.1 reports on African Americans for the 10 largest construction occupations in these data, as well as the total for all 27 construction occupations reported there.

According to Column (b) of the table, in 2000, overall utilization of African Americans in on-site construction occupations in the construction industry was 6.3%. Column (c) then provides the comparable figures for these same occupations outside the construction industry, and these average 10.6%. Treating Column (c) as a benchmark for expected representation, Column (d) reports the difference between Column (c) and Column (b). For the 27 on-site construction occupations combined, the under-utilization reported in Column (d) averaged 4.3%, a figure more than two-thirds as large as their actual utilization of 6.3%.

¹ In data reported here from the 2000 Census and American Community Survey 2006-2008, each racial group includes persons reporting themselves in that racial group alone and those reporting themselves in that racial group in combination with another group (e.g., African American + American Indian). Thus, figures computed for all racial groups including whites total more than 100% of all reported workers. This is not an error but simply a reminder of what the data represent.

The same issue does not arise for EEO-1 data, where individuals are reported only within one racial/ethnic group. Nor does it arise for Hispanics in this chapter or women in the previous chapter, since in those cases there is no overlap between the groups and their "counter-groups" (i.e., males and females and non-Hispanics and Hispanics).

² Toosi (2009), p. 32.

(a)	(b)	(c)	(d)
Occupation	Construction Industry	Other Industries	Under- Utilization
Carpenters	4.0%	6.9%	- 2.9%
Laborers	8.5%	14.1%	- 5.6%
Electricians	5.4%	6.8%	- 1.4%
Painters	5.9%	12.6%	- 6.7%
Pipelayers & plumbers	5.6%	9.5%	- 3.9%
Equipment operators	5.8%	7.7%	- 1.9%
Roofers	6.7%	14.5%	- 7.9%
Brick & stone masons	11.5%	13.8%	- 2.3%
Drywall installers	4.3%	12.1%	- 7.8%
Floor installers	4.3%	6.5%	-2.1%
27 occupations	6.3%	10.6%	- 4.3%

Table 5.1 3African American Utilization in On-Site ConstructionOccupations in the Construction Industry,2000 Census EEO Special Tabulation

African Americans were under-utilized in 24 (92.6%) of the 27 occupations analyzed.⁴ When the 4.3% shortfall rate is applied to the 4.9 million workers in the construction industry in 2000, the shortfall totals 210,580 "missing" African American workers.

The second data source examined is the American Community Survey 2006-2008. Table 5.2 presents an analysis parallel to Table 5.1 but based on these more recent data. It shows African Americans constituting 7.7% of workers in on-site construction occupations in the construction industry, a rate 1.1% higher than the 6.3% in 2000. However, utilization in construction occupations in industries other than construction rose even more over the same period, from 10.6% to 12.3%. Accordingly, the under-utilization of African Americans in the construction industry increased between 2000 and 2006-2008, from the 4.3% reported in Table 5.1 to the 4.5% reported in Table 5.2.

³ Table 5.1 is extracted from Appendix Table A.2 in Appendix A.

⁴ The three exceptions are Miscellaneous Construction & Related Workers, Hazardous Materials Removal Workers, and Septic Tank Servicers & Sewer Pipe Cleaners. Together, these occupations account for 0.5% of on-site construction workers in the construction industry.

(a)	(b)	(c)	(d)
Occupation	Construction Industry	Other Industries	Under- Utilization
Laborers	9.5%	16.8%	- 7.2%
Carpenters	5.3%	7.5%	- 2.1%
Painters	7.0%	14.3%	- 7.3%
Electricians	6.9%	9.4%	- 2.6%
Pipelayers & plumbers	7.1%	11.5%	- 4.3%
Equipment operators	6.2%	8.9%	- 2.7%
Roofers	8.5%	15.4%	- 6.9%
Brick & stone masons	12.9%	12.9%	0.1%
Drywall installers	6.5%	12.1%	- 5.6%
Floor installers	5.2%	7.1%	-1.9%
27 occupations	7.7%	12.3%	- 4.5%

Table 5.2 5African American Utilization in On-site ConstructionOccupations in the Construction Industry,
American Community Survey 2006-2008

African Americans were under-utilized in 23 (85.2%) of the 27 occupations analyzed.⁶ The overall under-utilization shown in Table 5.2 -- 4.5% -- is 58% as large as the 7.7% actual utilization reported there. When the 4.5% shortfall rate is applied to the 8.5 million workers in the construction industry in 2006-2008, the shortfall totals 387,721 "missing" African American construction workers.

As in Chapter 4, ACS data can also be used to analyze the "glass ceiling" effect. Table 5.3 presents such an analysis for 25 on-site construction occupations for which consistent earnings data are readily available. The table reveals that African Americans account for 6.8% of the 10 best-paid occupations among the 25, or 68% of their 10.0% representation in the entry-level occupations reported in the same table. Similarly, African Americans account for 8.5% of the "intermediate-level" occupations, 85% of their entry-level representation. This pattern is consistent with a "glass ceiling" pattern in which African Americans remain disproportionately concentrated at the entry level rather than advancing in their construction careers at rates similar to their white counterparts.

⁵ Table 5.2 is extracted from Appendix Table B.2 in Appendix B.

⁶ The exceptions are: Brick Masons & Stone Masons, Highway Maintenance Workers, Miscellaneous Construction Workers including Sewer Cleaners, and Paving Equipment Operators. Together, these occupations account for 5.2% of on-site construction workers in the construction industry.

Table 5.3 7Representation of African Americans in Construction OccupationsGrouped by Earnings, ACS 2006-2008

(a)	(b)	(c)	(d)
Category	Examples	Annual Earnings	% Af. Am.
10 best- paid occupations	Electricians Plumbers	\$40,000 - \$80,000	6.8%
13 intermediate-level occupations	Drywall Installers Equipment Operators	\$30,000 - \$40,000	8.5%
2 entry-level occupations	Laborers Helpers	\$25,000 - \$30,000	10.0%

The third source of data is EEO-1 reports for 2008, presented in Table 5.4. According to this table, African Americans accounted for 6.0% of workers in skilled construction occupations, 9.6% of semi-skilled operatives, and 9.2% of laborers. However, in each case, the expected representation was higher. For all construction sectors combined, African Americans were under-utilized to the extent of 3.3% of craft workers, 4.1% of semi-skilled operatives, and 8.6% of unskilled laborers.

This shortfall encompasses all nine employment categories examined in Table 5.4. Thus, African Americans are under-utilized as skilled craft workers by 4.2% in Construction of Buildings, 1.5% in Heavy Construction, and 3.7% in Specialty Trade Contracting, while concurrently, in the Specialty Trades sector, the shortfall of African Americans is 3.7% in skilled occupations, 5.1% in semi-skilled occupations, and 10.2% in unskilled occupations.

According to the final column of Table 5.4, the number of "missing" African American construction workers estimated from EEO-1 reports totals 50,213. This figure is consistent with the 387,721 shortfall estimated using ACS 2006-2008 in the same time period, since the 387,721 covers all construction employers while the 50,213 covers only firms large enough to file EEO-1 reports.

Table 5.4 also reveals that, consistent with the "glass ceiling" pattern observed in ACS data in Table 5.3, the employment representation of African Americans in EEO-1 data is lower among skilled construction workers (between 5.1% and 7.8%) than among

⁷ Table 5.3 is excerpted from Appendix Table B.10 in Appendix B.

their semi-skilled colleagues (between 7.6% to 10.7%) and unskilled colleagues (between 7.6% and 10.7%).

(a)	(b)	(c)	(d)	(e)	(f)
Occupations	Construction Sector	Actual Af. Ams.	Expected Af. Ams.	Shortfall %	Shortfall Number
Skilled craft workers	All construction	6.0%	9.3%	- 3.3%	20,897
	Constr. of buildings	5.1%		- 4.2%	
	Heavy construction	7.8%		- 1.5%	
	Specialty Trades	5.6%		- 3.7%	
	All construction	9.6%	13.7%	-4.1%	6,786
Semi-skilled	Constr. of buildings	11.5%		-2.2%	
operatives	Heavy construction	9.9%		-3.8%	
	Specialty trades	8.6%		-5.1%	
Unskilled laborers	All construction	9.2%	17.8%	- 8.6%	22,530
	Constr. of buildings	10.3%		- 7.5%	
	Heavy construction	10.7%		- 7.1%	
	Specialty trades	7.6%		-10.2%	
Total					50,213

Table 5.4 ⁸
Shortfall of African Americans in Selected Occupations in the
Construction Industry, 2008, EEO-1 Reports

Table 5.5 reports EEO-1 data on African American shortfall in construction employment over the 33-year period from 1975 though 2008. It shows that, for all three types of construction workers examined, the under-utilization of African Americans has been growing over this period and is substantially greater in 2008 than it was 33 years earlier. Between 1975 and 2008, African American under-utilization increased an average of 0.17 percentage points per year for craft workers, 0.25 percentage points for operatives, and 0.61 percentage points for laborers. Perhaps most dramatically, the table reveals that among laborers, African Americans were over-represented by 10.2 % in 1975 but 33 years later, that "surplus" has reversed into a shortfall of 10.0%.

⁸ Table 5.4 is extracted from Appendix Table C.2 in Appendix C.

Table 5.5 9Shortfall of African Americans in Selected Occupations in
the Construction Industry, 1975-2008, EEO-1 Reports

(a)	(b)	(c)	(d)
Year	Skilled Craft Workers	Semi-skilled Operatives	Unskilled Laborers
1975	0.8%	- 0.1%	10.2%
1980	- 1.1%	- 0.5%	8.0%
1985	- 0.9%	- 3.0%	5.1%
1990	- 1.2%	- 2.7%	2.9%
1995	- 2.4%	- 4.2%	- 1.3%
2000	- 2.8%	- 5.6%	- 4.8%
2008	- 4.9%	- 8.3%	- 10.0%
Average annual rate of change	- 0.17%	25%	61%

The final database examined is the Current Population Survey (CPS), the only source offering comprehensive data on the demographic characteristics of union members.¹⁰ As Chapter 2 discussed, unionized construction positions are typically considered desirable because of their higher wages, more extensive fringe benefits, and enhanced workplace protections. According to CPS data for 2005 through 2009, 7.1% of African American workers employed in 12 of the most commonly-unionized construction crafts¹¹ are union members or are represented by unions. The counterpart figure for white non-Hispanics working in those same crafts is 27.4%, nearly quadruple the African American rate.

⁹ Table 5.5 is extracted from Appendix Table C.7 in Appendix C.

¹⁰ In this report, data on union membership from the CPS is presented only for African Americans and Hispanics, not for women or other racial minority groups. The sample of construction workers in the CPS is too small to provide reliable figures for these latter groups.

¹¹ These crafts are Brick Masons, Carpenters, Cement Masons, Electricians, Elevator Installers, Operating Engineers, Painters, Pile Driver Operators, Plasterers & Stucco Masons, Plumbers & Pipefitters, Sheet Metal Workers, and Structural Iron Workers.

Numerical Estimates for Other Racial Minorities

The 2000 Census and ACS 2006-2008 provide data on three racial minority groups other than African Americans -- Asians, American Indians/Alaska Natives, and Native Hawaiians/Other Pacific Islanders -- as well as persons reporting themselves in more than two racial groups or in some other group.

As Chapter 7 discusses, these groups account for substantial proportions of the labor force in selected locations in the nation, such as Asians in California, Native Hawaiians in Hawaii, and American Indians in New Mexico. However, in the majority of locales nationwide, they are present in small numbers, and consequently their nationwide totals are modest. Therefore, although these groups are analyzed in Appendices A, B, and C in the same detail as African Americans, the results are summarized in this chapter more briefly. In addition, in this chapter and throughout this report, two of these groups -- American Indians/Alaska Natives and Native Hawaiians/Other Pacific Islanders -- are combined because of their common status as "native Americans" and their tendency not to be found in large numbers in the same local labor markets.

In Table 5.6, we turn once again to the 2000 Census. Column (b) of the table confirms that the three racial minority groups each account for only a small proportion of the nation's workforce in construction occupations. Together, the three add up to nation-wide expected representation of 3.4%.

Despite their small size, the groups exhibit consistent under-representation. For all 27 construction occupations combined, each of the three groups is under-utilized, with their combined under-utilization totaling 0.7% of construction employment nation-wide. Moreover, a shortfall exists for at least one of the three groups in 26 (96.2%) of the 27 occupations examined.¹²

A shortfall of 0.7 is 21% the size of the actual representation of the three groups. When applied to the 4.9 million persons employed in the construction occupations in 2000, this shortfall corresponds to 34,365 "missing" construction workers of non-African American racial minority background.¹³

¹² The exception is Construction and Building Inspectors, which accounts for 0.5% of all on-site construction employment.

¹³ This label is a slight over-simplification. Persons in this group could have some African American background, if that is one of the races leading to their reporting themselves in more than two racial groups.

Table 5.614Under-Utilization of Racial Minorities other than African Americansin On-Site Construction Occupations in the Construction Industry,2000 Census EEO Special Tabulation

(a)	(b)	(c)	(d)	(e)
Racial Group	Construction Industry	Other Industries	Under- Utilization	% of 27 Occupations with Under-Utilization
Asians	1.0%	1.2%	- 0.2%	66.7%
Am. Ind. & Nat Haw. ¹⁵	1.6%	2.0%	- 0.4%	74.1%
More than 2 races	0.8%	0.9%	- 0.1%	63.0%
Total	3.4%	4.1%	- 0.7%	96.3% ¹⁶

Table 5.7 parallels Table 5.6 but uses the more recent data from the American Community Survey 2006-2008. It shows the three racial minority groupings accounting for 4.0% of construction employment in 2006-2008, 0.6 percentage points more than in 2000. However, the utilization in construction occupations in non-construction industries increased even more over the same period, from 4.1% to 4.9%. Accordingly, the underutilization of these three racial minority groups in construction increased between 2000 and 2006-2008, from the 0.7% reported in Table 5.75 to the 0.9% in Table 5.7.

According to Table 5.7, at least one of the three racial minority groups was underutilized in 22 (81.5%) of the 27 occupations analyzed.¹⁷ The overall under-utilization shown in Table 5.7 -- 0.9% -- is 22% as large as the 4.0% actual utilization reported there. When the 0.9% shortfall rate is applied to the 8.5 million workers in the construction industry in 2006-2008, the shortfall totals 75,000 "missing" construction workers of non-African American racial minority background.

¹⁴ Table 5.6 is extracted from Appendix Tables A.3 - A.5 in Appendix A.

¹⁵ Combines American Indians/Alaska Natives and Native Hawaiians/Other Pacific Islanders.

¹⁶ This is the percent of occupations with a shortfall for one or more of the three groups.

¹⁷ The exceptions were: Cement Masons, Structural Iron & Steel Workers, Plasterers & Stucco Masons, Construction & Building Inspectors, and Glaziers. Together, these occupations account for 3.8% of on-site construction workers in the construction industry.

Table 5.7 ¹⁸

Under-Utilization of Racial Minorities other than African Americans in On-Site Construction Occupations in the Construction Industry, American Community Survey 2006-2008

(a)	(b)	(c)	(d)	(e)	
Racial Group	Construction Industry	Other Industries	Under- Utilization	% of 27 Occupations with Under- Utilization	
Asians	0.3%	0.4%	-0.1%	37.0%	
Am. Ind. & Nat Haw. ¹⁹	2.2%%	2.8%	- 0.6%	66.7%	
More than 2 races	1.5%	1.7%	- 0.2%	63.0%	
Total	4.0%	4.9	- 0.9%	81.5% ²⁰	

Table 5.8 present a "glass ceiling" analysis for the three smaller racial minority groups. It reports that, among the 25 construction occupations analyzed, all three groups are represented in the highest-paid occupations and the intermediate occupations at a lower rate than in entry-level occupations.

¹⁸ Table 5.7 is extracted from Appendix Tables B.3 - B.5 in Appendix B.

¹⁹ Combines American Indians/Alaska Natives and Native Hawaiians/Other Pacific Islanders.

²⁰ Percent of occupations with a shortfall in one or more of the three groups.

Table 5.821Representation of Racial Minorities other thanAfrican Americans in Construction OccupationsGrouped by Earnings, ACS 2006-2008

(a)	(b)	(c)	(d)
Category	% Asian	% Am. Ind./Al. Nat. & Nat. Haw./ Oth. Pac. Is.	% More than 2 Races/ Other
10 best- paid occupations	0.3%	2.1%	1.4%
13 intermediate-level occupations	0.3%	2.3%	1.6%
2 entry-level occupations	0.4%	2.3%	2.0%

The third source of data is EEO-1 reports for 2008, presented in Table 5.9. According to this table, the three non-African American racial minority groups accounted for 2.8% of skilled workers in the construction industry, 2.9% of semi-skilled operatives, and 2.3% of laborers. However, the expected representation of the three minority groups is substantially higher than that, leading to under-utilization of 3.3% of craft workers, 4.1% of semi-skilled operatives, and 3.2% of unskilled laborers. Moreover, shortfall appears in each of these occupational groups in each of the three construction subsectors examined in the table. According to the final column of Table 5.9, the number of "missing" construction workers at EEO-1 reporting firms in 2008 for the three minority groups totals 22,004.

²¹ Table 5.8 is excerpted from Appendix Tables B.11 through B13 in Appendix B.

Table 5.9 22Shortfall of Racial Groups other than African AmericansIn Selected Occupations in the Construction Industry,2008, According to EEO-1 Data

(a)	(b)	(c)	(d)	(e)	(f)
Occupations	Construction Sector	Actual Minority	Expected Minority.	Shortfall %	Shortfall Number
	All construction	2.8%		- 1.5%	
Skilled craft	Constr. of buildings	3.0%	4.2%	- 1.2%	0.219
workers	Heavy construction	2.4%	4.2%	- 1.9%	-9,218
	Specialty trades	2.4%		- 1.9%	
	All construction	2.9%	E 60/	-2.7%	4 426
Semi-skilled	Constr. of buildings	2.9%		-2.6%	
operatives	Heavy construction	2.9%	5.6%	-2.7%	-4,426
	Specialty trades	2.6%		-3.0%	
	All construction	2.3%		- 3.2%	
Unskilled	Constr. of buildings	2.6%	5.5%	- 2.9%	9.260
laborers	Heavy construction	3.0%	5.5%	- 2.5%	-8,360
	Specialty trades	2.1%		-3.4%	
Total					-22,004

In older EEO-1 data, only two non-African American racial minority groups are reported: Asians and American Indians. Therefore, in reporting EEO-1 data over the period 1975-2008, Table 5.10 examines only these two groups. The table shows increasing under-utilization throughout the period, turning a small "surplus" in 1975 into a substantial shortfall 33 years later; the annual increase in shortfall averaged .04% per year for craft workers, .11% for operatives, and .10% for laborers.

²² Table 5.9 is extracted from Appendix Table C.3 in Appendix C.

Table 5.1023Shortfall of Asians and American Indians in Selected
Occupations in the Construction Industry,
1975-2008, According to EEO-1 Data

Year	Skilled Craft Workers	Semi-skilled Operatives	Unskilled Laborers
1975	0.5%	0.5%	0.1%
1980	- 0.4%	0.1%	- 0.6%
1985	0.2%	0.0%	- 0.9%
1990	- 0.4%	- 1.2%	- 1.3%
1995	- 0.1%	- 1.6%	- 1.9%
2000	- 1.2%	- 2.7%	- 2.9%
2008	- 0.8%	- 3.1%	- 3.3%
Average annual rate of change	- 0.04%	11%	10%

Numerical Estimates for Hispanics

For both African Americans and the other racial minority groups examined in this chapter, perhaps the most striking pattern is their increasing under-utilization over recent decades. The "other side of the coin" of these patterns is primarily the rapidly increasing representation of Hispanics in the construction labor force.

In part, this increase simply reflects the more than tripling of Hispanics within the overall U.S. population over the past 40 years, from 4.7% in 1970 to 15.5% in 2010.²⁴ That increase has been roughly paralleled in the "blue collar" non-construction industries used throughout this report as a comparison group for construction employment. However, the increase of Hispanics in construction employment has been more rapid than that, including a: ²⁵

²³ Table 5.10 is extracted from Appendix Table C.8 in Appendix C.

²⁴ U.S. Census (2010D), p. 4.

²⁵ See Appendix Table C.9 in Appendix C. However, with the downturn in construction during the current recession, some immigrants have left the United States, so that numbers for

- nearly seven-fold increase in construction craft workers, from 4.0% to 27.2%;
- more than quadrupling among construction operatives, from 6.6% to 27.6%; and
- more than quadrupling among construction laborers, from 11.2% to 45.6%.

Today, more than one in four employed Hispanic males works in a construction or maintenance occupation. 26

Moreover, in some local labor markets, Hispanic representation among construction workers has become particularly prevalent. For instance, Hispanics constitute 90.5% of carpenters in the Brownsville, Texas metropolitan area and 73.2% of construction laborers in the Miami metropolitan area.²⁷

Another difference between Hispanic construction employment and that of the racial minorities examined earlier in this chapter is that, in terms of overall national patterns, under-utilization of Hispanics is the exception rather than the rule. Of course, over-utilization in nation-wide data can coincide with under-utilization of Hispanics by individual construction employers, as well as in certain construction occupations and certain locales. It can also co-exist with Hispanics' experiencing discrimination or harassment in construction employment. However, such problems operate in a context somewhat different from that of substantial under-representation experienced by women and members of racial minority groups.

That overall context is first demonstrated in Table 5.11 using data from the EEO Special Tabulation of the 2000 Census. According to that table, in 2000, overall utilization of Hispanics in on-site construction occupations in the construction industry was 19.6%, compared to an expected representation of 16.1%, for a "surplus" of 3.5%.

Hispanics were under-utilized in nine (33.3%) of the 27 occupations analyzed: Carpenters, Floor Installers, Sheet Metal Workers, Highway Maintenance Workers, Structural Iron and Steel Workers, Elevator Installers, Glaziers, Paperhangers, and Boilermakers. Together, these occupations account for 31.1% of employment in the 27 occupations analyzed.

immigrants who are racial or ethnic minorities have decreased, at least for the short term. In particular, during 2008, Hispanic employment in the construction industry fell by almost 300,000 workers (CWPR, 2009, p.2).

²⁶ U.S. Census (2010D), p. 35.

²⁷ U.S. Census (2010A).

Table 5.1128Hispanic Utilization in On-Site ConstructionOccupations in the Construction Industry,
2000 Census EEO Special Tabulation

(a)	(b)	(c)	(d)
Occupation	Construction Industry	Other Industries	Under- Utilization ²⁹
Carpenters	14.8%	16.4%	- 1.6%
Laborers	29.8%	19.8%	10.0%
Electricians	9.0%	7.4%	1.7%
Painters	25.6%	21.2%	4.4%
Pipelayers & plumbers	12.1%	9.8%	2.3%
Equipment operators	9.4%	7.8%	1.6%
Roofers	28.6%	19.2%	9.5%
Brick & stone masons	19.5%	12.0%	7.5%
Drywall installers	29.9%	20.5%	9.4%
Floor installers	20.6%	26.8%	- 6.3%
27 occupations	19.6%	16.1%	3.5%

The second data source illustrating such patterns is the American Community Survey 2006-2008, reported in Table 5.12. The table shows Hispanics constituting 28.5% of workers in the 27 construction occupations in the construction industry, compared to 26.5% in the same occupations in other industries, for a "surplus" utilization of 1.4%.

In 2006-2008, Hispanics were under-utilized in 9 (33.3%) of the 27 occupations analyzed. Among these, five occupations showed shortfall in both 2000 and 2006-2008: Carpenters, Floor Installers, Structural Iron Workers, Paperhangers, and Boilermakers. The other occupations, showing shortfall only in 2006-2008, were: Construction Trade Helpers, Brick Masons, Plasterers & Stucco Masons, and Insulation Workers. Together, these nine occupations account for 31.2% of employment in the 27 occupations analyzed.

²⁸ Table 5.11 is extracted from Appendix Table A.7 in Appendix A.

²⁹ " - " indicates under-utilization; a positive number indicates utilization at a higher rate than outside the construction industry.

Table 5.12 30Hispanic Utilization in On-site ConstructionOccupations in the Construction Industry,
American Community Survey 2006-2008

(a)	(b)	(c)	(d)
Occupation	Construction Industry	All Other Industries	Under- Utilization ³¹
Laborers	34.5%	19.6%	14.9%
Carpenters	23.4%	27.1%	- 3.7%
Painters	34.1%	29.1%	5.0%
Electricians	15.8%	9.5%	6.3%
Pipelayers & plumbers	20.0%	15.9%	4.1%
Equipment operators	13.0%	10.7%	2.3%
Roofers	36.6%	36.5%	0.1%
Brick & stone masons	31.2%	51.4%	- 20.2%
Drywall installers	45.5%	20.8%	24.7%
Floor installers	36.6%	37.4%	- 0.9%
27 occupations	28.1%	26.5%	1.4%

Despite the overall over-representation documented in Table 5.12, the representation of Hispanics follows a "glass ceiling" pattern of diminishing representation of a minority group in higher-level occupations. Column (f) of Table 5.13 reveals that, in data from the ACS 2006-2008, Hispanics are a lower proportion of workers in the ten best-paid occupations (23.9%) than of their colleagues in entry-level occupations (34.5%) and intermediate-level occupations (35.2%).

³⁰ Table 5.12 is extracted from Appendix Table B.7 in Appendix B.

³¹ "-" indicates under-utilization; a positive number indicates utilization at a higher rather than the standard of availability.

Table 5.1332Representation of Hispanics in Construction Occupations
Grouped by Earnings, ACS 2006-2008

(a)	(b)	(c)	(d)
Category	Examples	Annual Earnings	% Hispanic
10 best-paid occupations	Electricians Plumbers	\$40,000 - \$80,000	23.9%
13 intermediate level occupations	Drywall installers Equipment operators	\$30,000 - \$40,000	35.2%
2 entry-level occupations	Laborers Helpers	\$25,000 - \$30,000	34.5%

Data from EEO-1 reports for 2008 are presented in Table 5.14. According to this table, Hispanics accounted for 27.2% of workers in skilled construction occupations, 27.6% of semi-skilled operatives, and 45.5% of laborers. In each case, these figures are substantially higher than the expected utilization. For all construction sectors combined, Hispanics were over-represented at a rate of 15.5% of skilled craft workers, 11.2% of semi-skilled operatives, and 12.4% of unskilled laborers.

Table 5.14 also provides a "glass ceiling" analysis for Hispanics. Consistent with the standard pattern of diminishing representation of a minority group for occupations in higher-level occupations, the table reveals that Hispanics are a lower proportion of skilled construction workers industry-wide (27.2%) and of semi-skilled workers (27.6%) than of unskilled workers (45.5%).

³² Table 5.13 is excerpted from Appendix Table B.15 in Appendix B.

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(a)	(b)	(c)	(d)	(e)
Occupations	Construction Sector	Actual Hispanics	Expected Hispanics	"Surplus" %
	All construction	27.2%		15.5%
Skilled craft	Constr. of buildings	27.6%	11.6%	16.0%
workers	Heavy construction	25.6%	11.0%	14.0%
	Specialty trades	27.6%		15.9%
	All construction	27.6%		11.2%
Semi-skilled	Constr. of buildings	29.0%	16 40/	12.6%
operatives	Heavy construction	21.1%	16.4%	4.7%
	Specialty trades	33.6%		17.2%
	All construction	45.5%		12.4%
Unskilled	Constr. of buildings	42.3%	33.1%	9.2%
laborers	Heavy construction	38.9%	33.1%	5.8%
	Specialty trades	51.6%		18.5%

Table 5.14 33Utilization of Hispanics in Selected Occupations in the
Construction Industry, 2008, EEO-1 Reports

Table 5.15 reports EEO-1 data on Hispanics over the 33 year period from 1975 though 2008. It shows that, among all three types of construction workers examined, the utilization of Hispanics in excess of their expected utilization has grown throughout this period, especially in recent years. Between 1975 and 2008, Hispanic "surplus" utilization increased an average of 0.53 percentage points per year for craft workers, 0.38 percentage points for operatives, and 0.50 percentage points for laborers.

The final database examined is the Current Population Survey (CPS). According to CPS data for 2005 through 2009, 10.8% of Hispanics employed in 12 of the most commonly-unionized construction crafts³⁴ are union members or are represented by unions. The counterpart figure for white non-Hispanics working in those same crafts is 27.4%, more than two and a half times the Hispanic rate.

³³ Table 5.14 is extracted from Appendix Table C.5 in Appendix C.

³⁴ These crafts are listed in footnote 11 earlier in this chapter.

Table 5.15 35"Surplus" Utilization of Hispanics in Selected Occupations in
the Construction Industry, 1975-2008, EEO-1 Reports

Year	Skilled Craft Workers	Semi-skilled Operatives	Unskilled Laborers
1975	0.3%	1.1%	1.3%
1980	0.3%	2.5%	3.1%
1985	0.5%	3.6%	4.1%
1990	1.1%	0.6%	0.9%
1995	2.6%	2.9%	3.1%
2000	6.0%	7.8%	8.2%
2008	17.7%	13.5%	17.7%
Average Annual Rate of Change	+ .53%	+ .38%	+ .50%

Attitudes and Practices Underlying these Outcomes

As with women in Chapter 4, research on psychological and organizational behavior enables us to relate the employment outcomes just described to attitudes and employment practices -- the workplace culture -- in the construction industry. With respect to racial and ethnic minorities, five components of this culture are particularly important.

³⁵ Table 5.15 is extracted from Appendix Table C.9 in Appendix C.

Favoring Insiders over Outsiders

The most fundamental of these components is the practice of making employment decisions in terms of "insiders" and "outsiders" defined by individuals' demographic characteristics.³⁶ Chapter 4 documented the many ways in which women are considered outsiders throughout the construction industry and are treated worse than men because of their gender.³⁷ The same "insiders over outsiders" thinking tends to shape industry attitudes toward racial and ethnic minorities, although some of the behavior flowing from that thinking may differ.

Because they are the traditional insiders dominating the construction industry as both employers and employees, whites are the main practitioners and beneficiaries of this "protect the insider" way of thinking. The predominant effect is to disadvantage racial and ethnic minorities. As one African American contractor in Southern California recently described his industry: ³⁸

It's still a white world. It's an industry dominated and controlled by white America. They make the rules....Folks take care of their own.

However, "folks take care of their own" thinking can also be reflected in the behavior of minorities in the industry as well as whites. Research has documented that race, ethnic, and gender "outsider" groups often compete with each other in construction in a "struggle for second place."³⁹ For instance, one study found that Hispanic contractors in Atlanta shared white contractors' negative stereotypes about African Americans while African Americans shared with whites anti-immigrant hostility toward Hispanics and fear of them as low-cost competitors.⁴⁰ Another study described how a female apprentice carpenter was consistently rebuffed when she sought support from minority male co-workers; the explanation was that contact with her marked them as double outsiders, first by being nonwhite and then by being affiliated with a woman, a symbol of weakness.⁴¹

In the same spirit, minority groups who gain a toehold in the industry often try to maintain and improve that position against all other groups, both white and minority. For this reason, as well as lack of access to non-ethnic networks, minority groups in the

³⁶ Lippard (2006); Bates (2006); Bonilla-Silva (2003).

³⁷ In that chapter, this process was referred to as "maintenance of social closure" (Murray, 1988; Bendick & Nunes, in press 2011).

³⁸ Equal Rights Advocates (2010).

³⁹ Paap (2006), p. 72.

⁴⁰ Lippard (2006).

⁴¹ Paap (2006), p. 72.

construction industry tend to rely on networks of individuals and firms in their own race or ethnic group for training, financial assistance and connections to work opportunities.⁴² Also consistent with this behavior, Appendix Table B.6 in Appendix B reports that whites are under-utilized in certain construction occupations -- for example, Drywall Installers and Brick Masons -- compared to their expected representation.

When exercised by whites, the most common manifestation of this groupadversarial way of thinking is under-utilization of minority workers.⁴³ That is the predominant pattern documented for African Americans in Tables 5.1, 5.2, and 5.5 for African Americans and 5.6, 5.7, and 5.10 for other racial minorities. It also manifests itself in the "glass ceiling" pattern in which minorities can find work as laborers and helpers but not rise to higher skilled, better-paid positions. This outcome was demonstrated for African Americans, other racial minorities, and Hispanics in Tables 5.3, 5.4, 5.8, 5.9, 5.13, and 5.14, respectively.

The pattern is further demonstrated in Appendix Table B.8 in Appendix B, where average annual earnings are compared for occupations where minorities are "over-represented" and those where they are "under-represented." For African Americans the few occupations in which they are over-represented -- including Highway Maintenance Workers and Sewer Cleaners -- provide annual earnings that average 89.8% of those where they are under-represented. Similarly, for Hispanics, the two-thirds of occupations in which they are over-represented earnings only 92.4% as high as in the one-third of occupations where they are under-represented.

Another way the group-competitive way of thinking manifests itself is in occupational segregation (sometimes called "glass walls"), where minorities find employment in some construction occupations but not in others at similar levels of skill and pay. One example involves Mohawk Indians who are nationally famous for their work as structural iron workers on skyscrapers and other tall structures.⁴⁴ Consistent with their reputation in this specialized niche, Appendix Table B.4 in Appendix B shows American Indians "over-represented" by 1,676 workers among Iron and Steel Workers nationwide. However, the same table reveals that, concurrently, they are underrepresented in 16 other skilled construction occupations.

From an organizational dynamics point of view, both occupational segregation and glass ceilings suggest that when numerical representation of minorities in

⁴² Lippard (2006); Royster (2003); Granovetter (1985).

⁴³ Before the civil rights revolution of the 1960s, under-representation often took the form of complete exclusion of minorities from construction employment, an outcome sometimes referred to as "inexorable zero" (Quadagno, 1994; Hill, 1985). Changing legal requirements and social norms over the past decades have tended to make such instances relatively rare across entire labor markets, although not so rare for individual firms or projects.

⁴⁴ Smithsonian Institution (2004).

construction has increased -- for example, for Hispanics in recent years -- it has done so without fundamental changes in the industry's culture.⁴⁵ In this circumstance, racial and ethnic disadvantage in all its manifestations is unlikely to disappear "naturally" over time without external pressure to foment more fundamental changes. This prediction is consistent with the virtual absence of change over several decades in shortfalls for racial minorities (see Tables 5.5 and 5.10), as well as for women (see Chapter 4).

Under-representation in employment is not the only way that "protect the insiders" thinking is reflected in employment outcomes. An additional manifestation finds minorities employed in construction but on less favorable terms and conditions than their non-minority counterparts. This is especially common among racial/ethnic minorities who are immigrants or are thought of as immigrants.⁴⁶

One form of inequality in the terms and conditions of employment involves differences in compensation for the same work. For example, immigrants might be required to work for less than minimum wage, work overtime without overtime pay, have legally mandated fringe benefits (such as employer's Social Security contributions) not paid, or simply have part of their promised pay not delivered by their employers.⁴⁷

A second form of inequality in employment terms and conditions involves exposure to risks in the workplace. Construction is a dangerous industry, with one of the nation's highest rates of occupational injuries and illnesses and accounting for 20.3% of all occupational deaths.⁴⁸ However, Hispanic construction workers have a work-related death rate 80% higher than their non-Hispanic counterparts.⁴⁹ Fatal injuries involving Hispanics increased nearly 28% from 1996 to 2004, a period in which overall fatality rates declined.⁵⁰ One survey of Hispanic construction workers found that 32% had

⁴⁵ For example, Bates (2006, p. 9) concludes that even though minority presence, particularly Hispanic presence, in Chicago construction has grown rapidly over the years, the existence of progress does not demonstrate "an absence of discriminatory barriers."

⁴⁶ In construction, as elsewhere throughout American society, native-born Hispanic, Hispanics who are naturalized citizens, and Hispanics who are legal residents are often treated as if they were undocumented immigrants. Nearly one in 10 Hispanic adults nationally, both documented and not, reports being questioned about his or her immigration status during a one year period by police or other authorities (Lopez & Minushkin, 2008, p. 9). Consequently, in many circumstances, workplace treatment typical of immigrants often also applies to all Hispanics (Bauer, 2009, p. 5).

⁴⁷ Bauer (2009), chapter 1.

⁴⁸ Brunette (2004), p. 244; Ortega-Wells (2006), p. 1.

⁴⁹ Gittleman (no date), p. 3.

⁵⁰ Brunette (2009), p. 245. Nearly two-thirds of these Hispanic fatalities involved foreign-born workers.

experienced on the job injuries, and among these, only 37% had received appropriate treatment, and many reported being fired because they were injured.⁵¹ In response to such data, the U.S. National Institute of Occupational Safety and Health has declared immigrant construction workers a special needs population facing disproportionate risks.⁵²

Construction employers often can maintain such differences in employment treatment through threats of deportation. In the words of a white contractor in Atlanta recorded in one study: 5^{3}

[Hispanic workers] are a mixed blessing. Don't get me wrong, they're great. They do s--t work for almost no pay and if they complain, it doesn't matter 'cause I tell them (with an accent), "You complain, I call INS [the Immigration and Naturalization Service]."

The same fear-based disincentives to resist workplace abuse apply to non-Hispanic immigrants, including those from Africa and Asia. Thus, similar abuses help to explain under-representation and mistreatment of other racial and ethnic minority construction employees as well as Hispanics.

Stereotypes

In defending their employment against incursion by minorities, another tool employed by white employment decision-makers and co-workers is stereotypes. As Chapter 4 discussed, stereotypes are over-generalized beliefs that, when they have negative content, can be used to justify not employing individuals.

The predominant content of stereotypes concerning many racial/ethnic minorities is negative. In particular, African Americans are often stereotyped as inferior not only as workers but also as individuals. In addition to presumptions of lack of skills and laziness, they were associated with theft, drug use and immoral conduct.⁵⁴ Reflecting these stereotypes, they were viewed as less desirable to hire, and if hired, less deserving of assistance or mentoring than their white co-workers.⁵⁵

⁵¹ Bauer (2009), p. 6.

⁵² Gittleman (no date), p. 3.

⁵³ Lippard (2006), p. 107. In this study, the direct linkage between abuse of immigrant workers and employers' willingness to hire them is clear from employers' comments that they preferred to hire recent-immigrant Hispanics over "Americanized" Hispanics because the latter group is too "militant" -- that is, prone to demand their rights.

⁵⁴ Moss & Tilly (2001); Waldinger & Lichter (2003).

⁵⁵ Paap (2008), p. 384

In addition to such group-specific stereotypes, racial and ethnic minorities are often stereotyped as less competent because their hiring is associated with affirmative action. In this line of thinking, minority hires are presumed to be affirmative action hires, and affirmative action hires are presumed to lack qualifications. Consistent with such presumptions, many contractors that employ minority workers or subcontractors on projects with affirmative action goals tend not to employ them on non-goal jobs.⁵⁶

The most basic way that stereotypes can adversely affect employment opportunities is in affecting hiring decisions. As Chapter 2 discussed, human resource management practices in the construction industry tend to be simpler and less formal than in many industries. Hiring for on-site construction work is often based on employers' "gut" feeling or "I know it when I see it." In such quick, informal, decision making, stereotypes are particularly influential.⁵⁷

In addition to difficulties getting hires, research has documented a multitude of ways minorities experience stereotype-based adverse treatment in their daily work lives. For example:

- In San Francisco, an African American with a master's degree in construction management is president of a construction services company with annual sales of \$7 million. As he visits job sites in a hard hat supervising his crews, he is often stopped by suspicious security guards and construction supervisors. "They don't expect to see a business owner who's...African American..."⁵⁸
- Performance differences between different categories of workers are "created and recreated...through the public negotiation of blame."⁵⁹ For example, a white employee who makes a mistake is more likely than a minority to be given the benefit of the doubt or have a problem explained as a matter of bad luck rather than lack of skills.⁶⁰ This difference can lead to inappropriately high rates of terminations for minorities.
- A Hispanic contractor reported that an engineer inspecting a project on which he had worked told him that "being a Mexican, I did sh--ty work," and refused to pay him the full, agreed-upon price for his work.⁶¹

⁵⁶ NERA (2006), p. 208; Price (2002).

⁵⁷ Bielby (2008).

⁵⁸ Equal Rights Advocates (2010).

⁵⁹ Paap (2008), p. 383.

⁶⁰ Paap (2008), Chun et al. (2009).

⁶¹ DCA (2005).

- A minority contractor reported that city inspectors asked his white employees "why they were working for a Black-owned firm."⁶²
- Concerning interviews for the work-study program at a vocation high school in Baltimore, a school counselor stated that she had "sent several [black] students on interviews where they came back and said, "They took one look at me and it was over." One student said they kept him waiting an hour, then told him that there was no one there who could interview him. ⁶³
- In Atlanta, research found that contractors often used different metrics when considering if whites, African Americans, and Latinos should be used as subcontractors. Their decisions were often based directly on stereotypes that African Americans are not competent, and Hispanics' main advantage is that they are cheap.⁶⁴

While all stereotypes are inaccurate when applied to individuals, they are not all negative. For example, the prominence of Mohawk Indians among Structural Iron and Steel Workers, mentioned earlier, is based in part on the stereotype that they are not afraid of heights.⁶⁵

However, although positive stereotypes may expand some types of minority employment, they often do so in a discriminatory way. For example, Hispanic immigrant construction workers are often described as hungry for work and docile, so that they will accept low wages, not complain or talk back to supervisors, not take too many breaks, not leave work undone, and not refuse work if it is unsafe.⁶⁶ These stereotypes encourage employers to employ them in jobs where these supposed extra qualities are most advantageous -- such as the most dangerous jobs or the ones with lowest pay -- but not elsewhere. Thus, ironically, these "positive" stereotypes simultaneously limit opportunities for both non-Hispanics (by displacing them from such jobs) and Hispanics (by confining them to those jobs).

Networks

Another very important aspect of construction in which distinctions between insiders and outsiders translate into employment under-utilization for minorities is access

⁶² NERA (2006), p. 206.

⁶³ Royster (2003), p. 115.

⁶⁴ Lippard (2006), p. 318.

⁶⁵ Smithsonian Institution (2004).

⁶⁶ Lippard (2006); Waldinger & Lichter (2003); Moss & Tilly (2001).

to networks. In construction, access to information and referrals through networks of personal contacts is a major resource. Without equal access to those networks equal employment outcomes remain extremely unlikely.⁶⁷

The dominance of whites in such networks has been documented in a number of research studies. In the Chicago labor market, for example, one study concluded that the dominant explanation for "persistent minority disadvantage in construction" was an "old boys network" that allowed a white male, entrenched group to enjoy the benefits of insider status. Minorities, on the other hand, were considered newcomers and "outsiders" and not allowed access to the networks providing access to construction jobs of all types.⁶⁸ In Atlanta, white networks were tied into "every part of the industry including the banks, the supply warehouses, and the local municipalities that inspected their work."⁶⁹

Whites in such positions of power often use these networks to assist insiders and exclude outsiders at a number of key "choke points."

In one important choke point, personal networks are often crucial sources of information about job openings, as well as referrals and recommendations to potential employers. One study found that referrals from friends and relatives were associated with a more than tripling of the probability of being employed in the construction industry.⁷⁰ Even when they literally know each other, whites may not share information with minorities and instead reserve it for friends, family, and neighbors. As one team of researchers summarized it, "Family ties and long-standing tradition remains strong in the trades, and the gateway to entry is patrolled by insiders who are suspicious of change."⁷¹

Because of segregated residential patterns and family relationships, minorities often have limited access to individuals who themselves have succeeded in construction, are confided in by bosses about unadvertised job vacancies, and whose recommendations are listened to. Thus, for example, among young jobseekers in Boston, whites obtaining jobs through their relatives earned 38% more per hour than did African Americans finding jobs through their relatives.⁷²

⁷¹ Price (2002), p. 102. See also Bates & Howell (1998) and Waldinger & Bozogmehr (1996).

⁶⁷ Bates (2006), p. 8-9; Lippard (2006); Waldinger & Bailey (1991), p. 298.

⁶⁸ Bates (2006), p. 8-9

⁶⁹ Lippard (2006).

⁷⁰ Korenman & Turner (1996).

⁷² Korenman & Turner (1996). See also Waldinger & Bailey (1991), Bates & Howell (1998), and Silver (1986).

Personal networks are often particularly important in providing information about job opportunities outside workers' home neighborhoods. As Chapter 7 will discuss, construction workers routinely commute long distances to work sites. However, they must first be aware of those opportunities. Lack of information-sharing relationships with white workers is commonly cited as one mechanism underlying low minority presence in construction projects in suburban areas. For example, a study of construction employment in the Milwaukee metropolitan area found that African Americans and Hispanics gained employment primarily from the growth in construction work in Milwaukee County, while their white counterparts were employed at worksites throughout the four-county metropolitan area. The largest construction projects in the city of Milwaukee showed 17% to 21% minorities in their workforce, while the largest in adjacent, suburban Waukesha County showed between 2% and 9%.⁷³

Referrals through personal contacts can be particularly important at the start of careers. A study of African American and white vocational high school students in Baltimore concluded that, in facilitating transitions from school to work in the construction trades, no group is as influential as older white men. "[Young] white men's networks connect them with desirable training and occupational options, which remain open even while they pursue other objectives or simply fool around. Black men lack similar options, and instead exhaust the usefulness of their limited networks in the first few years out of high school."⁷⁴

As Chapter 2 discussed, apprenticeships are an important pipeline into better-paid construction crafts. Therefore, admissions to, and graduation from, these programs is another important "choke point." Holding information close about when and how to apply, supplying personal introductions in the admission process, and providing encouragement and tips throughout training are important ways that personal contact networks can enhance access to apprenticeships and success in the programs.

The experience of African Americans in the Milwaukee area illustrates their typically limited access to construction apprenticeships. Among the 341 Milwaukee area union contractors offering these programs, two-thirds had zero African American apprentices in both 2007 and 2010. In addition, among African Americans who registered for apprenticeships in 2007, 52% had been cancelled before the end of the year, compared to a white cancellation rate of 24%. In 2010, 14% of the African

⁷³ ETI (2006).

⁷⁴ Royster (2003), p. 147. With respect to high school shop teachers, the study found that white teachers were not uniformly helpful to white students or uniformly hostile to black students. Instead, they were to some degree supportive of both groups. Nevertheless, there was discernable inequality in the efforts the teachers made to assist white and black students.

American apprentices remained unassigned, compared to 9% of their white counterparts.⁷⁵

Personal relationships among workers can also affect informal training on the job. One research study described how this process can limit employment opportunities for minorities as follows:⁷⁶

In addition to workplace hostilities and what clearly seemed to be racist slander, I also observed clear differences in the informal interactions between the black and white male workers. Informal interactions are significant, of course, because they are the vehicle through which "tricks of the trade" and insider information about getting on steady with the company are communicated. I never witnessed black male workers being given the kind of mentoring or personal on-the-job training that could make the difference between a decent worker and a good or great worker.

Another key point of access to employment opportunities is decisions by prime contractors about subcontractors and joint venture partners. Here again personal introductions and references can play a crucial role, and minorities typically get fewer opportunities than equally qualified white counterparts. Analyzing the attitudes underlying such outcomes, one study of contractors in Atlanta found that whites generally viewed Hispanics and African Americans as acceptable in subcontractors and laborer roles but not as equal partners or general contractors. In addition, white contractors were leery of offering higher-level opportunities to Hispanics out of a concern that they would use the experience to transform themselves into competitors.⁷⁷

Research on contractor-subcontractor relationships in Chicago documented the same pattern of minorities being admitted only to limited opportunities. Consistent with Chapter 2 of the present report, this study emphasized contractors' desire to avoid risk when selecting subcontractors and employees, with consequent avoidance of minorities because their competence, trustworthiness, and credibility are perceived as uncertain. In addition, white members of insider networks felt that they could function smoothly together based on pre-established trust, prior experience with each other, and "social comfort" with people like themselves. As this study expressed it:⁷⁸

⁷⁵ NAACP & ETI (2010), pp. ii-iv. Another study found that, nationwide, 28% of minority apprentices and 25% of female apprentices completed their programs, compared to an overall rate (primarily based on white males) of 37% (Glover & Bilginsoy, 2005, p. 342).

⁷⁶ Paap (2006), p. 61.

⁷⁷ Lippard (2006), p. 318.

⁷⁸ Bates (2006), p. 19.

A prime contractor taking a chance by employing an outsider runs the risk of disrupting the job, falling behind, undermining the ability of other subcontractors to complete their work in a timely fashion. Utilizing one minority subcontractor may antagonize the other subs working on the job. Why take the risk?

This same study quantified the advantage conferred by such insider status in terms of higher rates of business ownership, greater access to work, and higher earnings. Among workers in the skilled construction trades, a combination of lower wage rates and fewer hours meant that Hispanic construction workers earned an average of 65.5% as much as whites, and African Americans 73.1% as much as whites, among workers with the same qualifications.⁷⁹

A final chokepoint is approval of construction work by inspectors. Here, disapproval of work can mean costly "do-overs," delays in payments causing cash flow problems for firms, or, at the least, energy-draining disputes. Research has documented examples of hostile behavior by inspectors such as the following:

- One African American with more than two decades' experience in residential construction in Atlanta reported: "I have this building here that has failed inspection twice, even though I have met all the requirements. I have a white inspector, and I don't think he agrees with a black person building in this area of Atlanta. Don't know if that is true, but I can tell because he just doesn't want to answer any of my questions and never will meet with me."⁸⁰
- A different study described the process as some public agencies' "leaning harder" on minority contractors, sending the covert message: "If you want to play in this league, we're going to make you pay." "Some agencies are really good to work for, but... others...don't think you belong."⁸¹
- A minority contractor described excessive oversight from city inspectors, including being bombarded with more than 300 letters identifying worksite violations.⁸²

Hostility, Harassment and the Lack of Help

A fourth component of the construction industry's culture maintaining differences in employment opportunities for whites and racial/ethnic minorities is hostile, harassing,

⁷⁹ Bates (2006), p. 13.

⁸⁰ Lippard (2006), p. 86.

⁸¹ Equal Rights Advocates (2010), p. 1.

⁸² NERA (2006), p. 206.

and unhelpful behavior by supervisors and co-workers on construction worksites. In recent years, some of this discriminatory treatment has become less explicit and more subtle, while other behavior has remained as explicitly hostile as in earlier decades.⁸³ However, in both forms, this behavior continues to be a common reality for "outsider" racial/ethnic minorities in_the construction industry.

One indication of this fact is the ongoing flow of discrimination charges filed with the EEOC for which the agency "found cause." According to Appendix Table D.1 in Appendix D, more than 350 such charges based on race, color, or national origin in the construction industry have flowed into the agency throughout the most recent five years, including nearly one found-cause charge a week during the first half of 2010.

Table 5.16 provides 28 examples of hostile or harassing behavior against minority workers or prospective workers in the construction industry documented in employment discrimination litigation within the past five years. Many of these examples feature racial/ethnic epithets, graffiti, comments, and slurs and their role in creating a work environment hostile to racial minorities and Hispanics. Nooses, a recognized symbol of racial hatred and violence because of their associations with African American lynchings, are particularly prominent. Other examples document discriminatory treatment in hiring, job referrals, terminations, and pay and cover racial and ethnic groups including African Americans, Hispanics, and Asians.

When such problems of discrimination are reported to public anti-discrimination agencies or documented in litigation, it often signals failure of individuals or institutions to respond to the issue at an earlier, more resolvable stage. Assistance to victims of such discrimination might be provided by project managers or other supervisors at the construction site, human resource officials of the employing firms, owners of the construction project and their on-site representatives, or shop stewards and other union officials. However, in practice, individuals experiencing harassment or discrimination often find that these actors do not address their issues either proactively or in response to complaints. Instead, officials themselves are sometimes active participants. Table 5.17 provides 12 examples from recent litigation of failures of these "official" mechanisms to protect minority construction workers.

⁸³ On "subtle" or "modern" racism, see Dipboye & Collela (2005) and Jones (1996); One 21-year African American veteran of residential construction in Atlanta described this evolution as follows (Lippard, 2006, p. 86):

So, I've seen it go from hardcore racism, what we have now is subtle racism. Yeah, so, they both have the same impact. ... It's just sneakier, I would rather he go ahead and call it what it really is, "I'm black."

Table 5.168428 Examples from Recent Litigation of Racial/EthnicDiscrimination in Construction Workplaces

(a)	(b)	(c)
Year	Finding	Case
2005	A Wisconsin general contractor and a Pennsylvania sheet metal subcontractor settled a lawsuit alleging that Black employees were subject to racial graffiti and abusive and racially derogatory language, and were given the most dangerous job assignments.	(10)
	A Tennessee general contractor settled a lawsuit alleging that Black carpenters and laborers were wrongfully terminated and replaced by Hispanics.	(6)
2006	A Maryland construction firm settled a lawsuit alleging that Black employees were subjected to racial epithets, slurs, and comments and given less favorable terms and conditions of employment.	(9)
	A California construction firm settled a lawsuit alleging that Thai welders were not paid the prevailing wage and were subjected to other exploitation and discrimination.	(15)
	A Michigan construction firm settled a lawsuit alleging that the company failed to hire and terminated Black iron workers because of their race.	(25)
	A Texas construction firm settled a lawsuit alleging that a Black sheet metal worker was subjected to racist remarks on a daily basis.	(30)
2007	A New York local of a construction union settled a contempt action alleging that, in violation of a previous court order, the union refused to refer non-White journey workers on the same basis as Whites.	(12)
2007	A New York highway construction firm settled a lawsuit alleging that over six years it repeatedly failed to hire a certified African American operating engineer.	(16)
	The New York Commission on Human Rights found that a construction firm discriminatorily terminated a Black demolitionist.	(48)
	A Pennsylvania general contractor and several subcontractors settled a lawsuit alleging that Black employees were subjected to racial slurs, graffiti, and nooses.	(11)
	A Massachusetts construction firm settled a lawsuit alleging that Black employees were subjected to racially offensive language, graffiti, and harassment.	(13)
2008	A Pennsylvania construction firm settled a lawsuit alleging that a Black pipe layer was laid off and not recalled while White workers were recalled or hired.	(31)
	An OFCCP compliance evaluation found that a Tennessee paving contractor failed to hire 76 qualified Black laborers.	(44)
	The Massachusetts Commission Against Discrimination found that a site superintendent's racial epithets created a hostile and abusive work environment for a Black equipment operator.	(28)

⁸⁴ Table 5.16 is excerpted from Appendix Table D.2 in Appendix D. "Case" refers to the case number in that table.

	An Illinois construction firm settled a lawsuit alleging that non-white Hispanic workers were routinely subjected to derogatory language and graffiti.	(17)
	An Arizona construction firm settled a lawsuit alleging that Mexican American employees were subject to anti-Hispanic slurs on a daily basis.	(4)
	The New Jersey Division on Civil Rights found probable cause to believe that a renovation firm subjected a Black carpenter to a racially hostile work environment.	(41)
	An Illinois construction firm settled a lawsuit alleging that Black employees were laid off after brief employment while white employees were retained.	(1)
	A union settled a lawsuit alleging that it denied a Black electrician membership and job referrals while admitting and referring 19 new white members.	(47)
	A Florida plumbing, air conditioning and heating contractor settled a lawsuit alleging that 12 minority helper, service, and insulation employees were paid less than similarly situated non-minorities.	(43)
	An OFCCP compliance evaluation found that a Maryland general contractor subjected a Black employee to supervisors' and co-workers' use of racially derogatory terms, verbal and written racial slurs, and nooses.	(45)
	A Florida construction firm settled a lawsuit in which a Black employee alleged that White employees put a noose around his neck and locked him in a tool shed.	(2)
	A Texas construction firm settled a lawsuit alleging harassment of East Indian, Black, and Hispanic workers.	(14)
	A Missouri construction firm settled a lawsuit alleging that three Black construction workers were subjected to racially charged comments and a noose.	(35)
2010	A Minnesota drywall firm settled a lawsuit alleging that it paid Hispanic immigrant workers less than their white co-workers through withholding fringe benefits and failing to pay overtime rates.	(37)
2010	An Ohio court denied summary judgment in a lawsuit alleging that the employees of an Ohio pipeline construction firm created a hostile work environment for Black equipment operators, welders, teamsters, and laborers through nooses, racial epithets, and other racially offensive behavior.	(40)
	An OFCCP compliance evaluation found that a Virginia general contractor paid minority carpenters less than similarly situated non-minorities.	(46)

Table 5.17 8512 Examples from Recent Litigation of Officials' Failing
to Assist Construction Workers Experiencing
Racial/Ethnic Discrimination or Harassment

(a)	(b)	(c)
Year	Finding	Case
2005	A Wisconsin general contractor and a Pennsylvania sheet metal subcontractor settled a lawsuit alleging that Black employees were subjected to abusive and racially derogatory language by supervisory personnel.	
2006	The Seventh Circuit held a union local liable for not acting when master mechanics refused to provide on-the-job training for Black union members seeking to become licensed elevator mechanics.	(34)
2000	The Eighth circuit upheld a district court finding that a foreman's racial insults created a hostile work environment for Black utility pole treatment workers.	(39)
2007	The West Virginia Human Rights Commission found that a construction firm did not take action to remedy co-workers' harassment of a minority laborer and instead fired the complaining employee.	(50)
2008	The Massachusetts Commission Against Discrimination found that a subcontractor ignored complaints by a Black equipment operator about offensive racial epithets by the general contractor's site superintendent, and then terminated the employee after he filed a complaint with the Commission.	(28)
	A Massachusetts construction firm settled a lawsuit alleging that it retaliated against Black workers who complained about racially offensive language and other harassment.	(13)
	The Massachusetts Commission Against Discrimination found that a building firm tolerated racial comments against a Black worker, and transferred and terminated him when he filed a complaint with the Commission.	(27)
	An Arizona construction firm settled a lawsuit alleging that it terminated Mexican American employees who complained about anti-Hispanic slurs.	(4)
2009	An OFCCP compliance evaluation found that a Maryland general contractor did not recall a Black laborer from layoff and did not rehire him because he complained about racial slurs and nooses and notified the company that he was filing a discrimination complaint.	(45)
	An Illinois construction firm settled a lawsuit alleging that a Black employee was terminated after filing a race discrimination complaint.	(1)
	A Florida construction firm settled a lawsuit alleging that it promoted a White employee who put a noose around the neck of a Black employee.	(2)
2010	A Missouri construction company settled a lawsuit alleging that three Black workers were no longer sent out on jobs after they complained about racially charged comments and a noose.	(35)

⁸⁵ Table 5.17 is excerpted from Appendix Table D.2 in Appendix D. "Case" refers to the case number in that table.

Denial of Problems

The fifth and final component of the construction industry's culture regarding discrimination is reluctance by non-minority participants in the construction industry to acknowledge employment discrimination as a widespread or serious problem in their industry. In the absence of agreeing that there is a problem to solve, employers and others in positions of power see little reason to change current employment practices, which they consider appropriate and effective.

Asked about situations such as the racial slurs, graffiti, and nooses illustrated in Tables 5.16, non-minority participants in the industry often characterize such incidents as rare and isolated. They also often judge the matter to be less serious than the minorities involved perceive them ("just harmless joking") or characterize complainants as "overly sensitive.⁸⁶

These non-minorities also tend to resist interpreting low minority representation in employment as under-utilization compared to reasonable benchmarks of expected representation. They commonly describe employment decisions by construction employers as "color blind" and motivated by legitimate desires to minimize risk, maximize employee productivity, and stay on top of their competition. In that context, they attribute low minority numbers in construction occupations to minorities' lack of preparation, aptitude, or interest. Similarly, decisions by white prime contractors not to offer opportunities to minorities beyond very limited roles are defended on grounds that minorities "have not yet paid their dues," "have not worked their way up the ladder," and are not yet "ready."⁸⁷

⁸⁶ Papp (2008); Moccio (2009).

⁸⁷ Lippard (2006), p. 107.

Chapter 6 A New Methodology for Calculating Availability

By documenting significant discrimination against both women and minorities, Chapters 4 and 5 imply that the availability of these groups for on-site construction occupations cannot be estimated accurately from current employment in those occupations alone. Instead, measures of availability should also take account of qualified and interested workers and potential workers currently employed outside the industry's employment-limiting workplace culture. This chapter presents a methodology for doing so in a systematic, empirical manner.

This methodology involves two different databases. First, the U.S. Department of Labor's O*NET is used to identify occupations sufficiently similar to on-site construction to be included in computing availability. Then, the U.S. Census Bureau's American Community Survey 2006-2008 is used to measure the demographic composition of the workforce in this broader set of construction-relevant occupations. This chapter first describes the former analysis and then the latter.

Identifying Similar Occupations

The Occupational Information Network (O*NET) is a large database detailing occupational requirements and worker attributes for individual occupations.¹ It and its on-paper predecessor *Dictionary of Occupational Titles* have been developed and refined over several decades with support from the U.S. Department of Labor's Employment and Training Administration (ETA). The database is publicly available to persons seeking detailed information on occupations, including employers, educational institutions, vocational counselors, job seekers, human resource professionals, providers of employment and training services, and researchers. With its 15th version released in 2010, the O*NET database is both up-to-date and well established.

For each occupation it covers, O*NET provides consistently-measured descriptors of:²

• Worker characteristics (abilities, occupational interests, work values, and work styles);

¹ O*Net Data Resource Center (2010C) and O*Net Data Resource Center (2010E) provide additional information. The database itself is available at O*Net Data Resource Center (2010D), and its data dictionary is available at O*Net Data Resource Center (2010B).

² O*Net Data Resource Center (2010A).

- Worker requirements (skills, knowledge, education);
- Experience requirements (experience, training, skills, entry-level requirements, licensing);
- Occupational requirements (work activities, organizational context, work context);
- Workforce characteristics (labor market information, occupational outlook); and
- Occupational-specific information (tasks, tools and technology).

The range of these data, and the systematic processes through which they have been developed, makes O*NET uniquely appropriate for identifying occupations employing workers with abilities and interests similar to those in on-site construction occupations.

This identification process involved four steps.

<u>Step One</u>: <u>Eliminate Irrelevant Occupations</u>. O*NET currently provides complete data on 853 occupations,³ ranging from high-level managerial and professional fields (e.g., Chief Executive Officers and Surgeons) to low-paid, high-turnover occupations with few educational or skill prerequisites (e.g., Dishwashers and Poultry Trimmers). Construction occupations fall within a "middle range" between these extremes. Many non-construction occupations differ so substantially from on-site construction that they are irrelevant to our analysis. Accordingly, the first step in this analysis was to eliminate occupations falling outside four broad screening criteria:

- <u>Education</u>. All occupations analyzed in O*NET are assigned to one of five "Job Zones" based on the level of education required to perform the occupation. O*NET assigns all the on-site construction occupations it analyzes to Zones 1 (less than high school graduate), 2 (high school graduate), or 3 (some postsecondary training or education). Therefore, we eliminated all occupations falling into O*NET Zones 4 (four year college degree) or 5 (graduate degree).
- 2. <u>Strength</u>. O*NET provides four descriptors of the physical strength required of workers in an occupation -- static strength, dynamic strength, explosive strength, and trunk strength ⁴ We averaged these four into a single strength score. Among

³ Within O*NET, occupations are defined in terms of O*NET codes and titles, which are more detailed than SOC (Standard Occupation Code) codes and titles, which, in turn, are more detailed than Census occupation codes and titles. Relationships among these classification systems are documented at National Crosswalk Service Center (2010). Throughout this report, analyses use the most detailed level of occupations for which data are available and therefore may vary among analyses.

⁴ O*NET measures each type of strength on a numerical scale with examples defining the levels (e.g., static strength level 6 corresponds to lifting 75 pound bags of concrete onto a truck). The

on-site construction workers, one of the lowest average strength score is .224, for Operating Engineers. Therefore, we eliminated all occupations not requiring at least that strength.

- 3. <u>Working Conditions</u>. For each occupation it analyzes, O*NET measures the frequency of exposure to 12 difficult work conditions or job hazards, including noise, heights, hazardous machinery, heat or cold, environmental contaminants, and cuts or burns. We computed an average score for these 12 scales. Among on-site construction occupations, the lowest score on this average is for Helpers of Painters, Paperhangers and Stucco Masons, corresponding to an average frequency of exposure to one of these conditions at least once a month. Therefore, we eliminated all occupations with a lower average frequency of exposure.
- 4. <u>Earnings</u>. Workers are much less likely to be available for construction employment if their employment alternatives pay substantially more than construction work. In the American Community Survey 2006-2008, the highest-earning on-site construction occupation is Elevator Installer and Repairer, with average annual earnings of \$64,149.⁵ Therefore, we eliminated all occupations for which average annual earnings in that survey were higher than that figure.

After these criteria were applied, 301 occupations (35.3%) of the original 853 remained. These remaining occupations consisted of 45 on-site construction occupations and 256 other "blue collar" occupations such as: Automotive Body Repairers, Farmers and Ranchers, Home Appliance Repairers, Heavy Truck and Tractor Trailer Drivers, Machinists, Municipal Firefighters, Machine Assemblers, Postal Service Mail Carriers, Tree Trimmers, Tire Repairers, and Welders.

<u>Step Two:</u> <u>Measure Similarity of Occupations</u>. The next step was to quantify the similarity among these 301 occupations. To do so, we first described each occupation using the 43 descriptors listed in Table 6.1 These descriptors incorporate all data in the O*NET "Worker Characteristics" file, including physical abilities, cognitive skills, vocational interests, and additional worker characteristics ranging from leadership ability to stress tolerance. Thus, our measure of occupational similarity focuses on the degree to which persons currently employed in occupations resemble each other in terms of jobrelevant abilities, skills, and interests.

occupations with the lowest strength scores are office jobs such as Auditors and Sales Managers, while those with the highest score include Athletes, Dancers, and Aerobic Instructors. The onsite construction occupation with the highest strength requirement is Brick Masons.

⁵ Here, we computed annual earnings excluding negative earnings.

Table 6.1 O*NET Data Elements in the Measure of Distance between Occupations

	(a)	(b)
	Item	O*NET Data Elements Averaged to Create this Item
1	Verbal ability	Verbal - oral comprehension (level) Verbal – Written comprehension (level) Verbal - Oral expression (level) Verbal – Written expression (level)
2	Reasoning	Ideas/reasoning - fluency of Ideas (level)Ideas/reasoning - originality (level)Ideas/reasoning - problem sensitivity (level)Ideas/reasoning - deductive reasoning (level)Ideas/reasoning - inductive reasoning (level)Ideas/reasoning - information gathering (level)Ideas/reasoning - category flexibility (level)
3	Quantitative ability	Quantitative - mathematical reasoning (level) Quantitative - numerical facility (level)
4	Memory	Memory - memorization (level)
5	Perceptual ability	Perceptual - speed of closure (level) Perceptual - flexibility of closure (level) Perceptual - perceptual speed (level)
6	Spatial ability	Spatial –spatial orientation (level) Spatial – visualization (level)
7	Attentiveness	Attentiveness - selective attention (level) Attentiveness - time sharing (level)
8	Fine manipulation	Fine manipulation - arm-hand steadiness (level) Fine manipulation - manual dexterity (level) Fine manipulation - finger dexterity (level)
9	Physical control	Control - control precision (level) Control - multilimb coordination (level) Control - response orientation (level) Control - response control (level)
10	Reaction time	Reaction time - reaction time (level) Reaction time - wrist-finger speed (level) Reaction time - speed of limb movement (level)
11	Strength	Physical strength - static strength (level) Physical strength - explosive strength (level) Physical strength - dynamic strength (level) Physical strength - trunk strength (level)
12	Endurance	Endurance - stamina (level)
13	Flexibility/coordination	Flexibility/coord extent flexibility (level) Flexibility/coord dynamic flexibility (level) Flexibility/coord gross body coordination (level) Flexibility/coord gross body equilibrium (level)
14	Visual acuity	Visual - near vision (level)

I		Visual - far vision (level)
		Visual - color discrimination (level)
1		Visual - night vision (level)
1		Visual - peripheral vision (level)
1		Visual - depth perception (level)
1		Visual - glare sensitivity (level)
		Auditory - hearing sensitivity (level)
1		Auditory - auditory attention (level)
15	Auditory acuity	Auditory - sound localization (level)
1	, , , , , , , , , , , , , , , , , , ,	Auditory - speech recognition (level)
1		Auditory - speech recognition (level)
16	Realistic interests	Realistic (scale)
	Investigative interests	Investigative (scale)
	Artistic interests	Artistic (scale)
19	Social interests	Social (scale)
	Enterprising interests	Enterprising (scale)
	Conventional interests	Conventional (scale)
	Achievement values	Achievement
23	Working conditions values	Working conditions
24	Recognition values	Recognition
	Relationships values	Relationships
26	Support values	Support/supervision
27	Independence values	Independence
28	Effort	Achievement orientation - achievement/effort
29	Persistence	Achievement orientation - persistence
30	Initiative	Achievement orientation - initiative
31	Leadership	Social influence – leadership
31	Cooperation	Interpersonal orientation – cooperation
33	Concern for others	Interpersonal orientation - concern for others
34	Social orientation	Interpersonal orientation - social orientation
35	Self control	Adjustment - self control
36	Stress tolerance	Adjustment - stress tolerance
37	Adaptability	Adjustment - adaptability/flexibility
	Dependability	Conscientiousness – dependability
39	Attention to detail	Conscientiousness - attention to detail
40	Integrity	Conscientiousness – integrity
40		
	Independence values	Independence
41	0,	Independence Practical intelligence - innovation

We then computed a number representing the degree of dissimilarity among the 301 occupations. We refer to this measure as a "distance" because it is computed using the "Minkowski Distance" procedure.⁶ This is the same methodology used by O*NET staff in measuring occupational similarity.

To understand that distance number, consider the example of Construction Carpenters, reported in Table 6.2. By definition, every occupation is identical to itself, so the distance between Construction Carpenter and itself is .000. The occupation next most similar to Construction Carpenter is Rough Carpenter, a distance of .063 away. The non-construction occupation most similar to Construction Carpenters is Electrical and Electronics Repairers of Commercial and Industrial Equipment, at a distance of .080. The occupation that is furthest away from Carpenters but still close enough to appear in Table 6.2 is the manufacturing occupation of Drilling and Boring Machine Operators, at a distance of .110.⁷

<u>Step Three</u>: <u>Determine Minimum Similarity</u>. Next, we determined a cutoff for occupations sufficiently similar to a construction occupation to be utilized in computing availability.

To do so, we first computed the distance from each of the 45 construction occupations to all other construction occupations. We then computed the median⁸ of those distances, which is .116, representing the similarity between Floor Layers and Glaziers. Then, in analyzing each construction occupation, we excluded all occupations more than .116 away from that construction occupation. Accordingly, all occupations remaining in the analysis for each construction occupation were at least as similar to that occupation as construction occupations are "typically" similar to each other.

⁶ A formal definition of the Minkowski Distance is available at U.S. National Institute of Standards and Technology (2010). In the version applied in our analysis, it is the straight line ("Euclidian") distance between each pair of occupations. It is computed by calculating the numerical difference in scores between each pair of occupations on each of the 43 descriptors, squaring each difference, summing these squared numbers, and taking the square root of that sum.

⁷ To place these distance figures in perspective, consider the largest distance between any pair of occupations among all 301 "blue collar" occupations" considered in our analysis. This distance is .372, and it is the distance between the two highly dissimilar occupations of Farm Laborers and Critical Care Nurses.

⁸ The median is the number in a list where half the list falls above it and half below it, and it is commonly used to identify a "typical" value in a list of values. Thus, the distance between pairs of construction occupations that is the median distance among all construction occupation pairs identifies a pair of occupations -- here, Floor Layers and Glaziers -- that are a "typical" distance apart. In computing the median, we conservatively included the zeros for the distance of each occupation from itself.

Table 6.250 Occupations Less Distant from Construction Carpenter
than the Distance between the Median Pair of
On-Site Construction Occupations

	Occupation	Distance
(1)	Construction carpenters	0.000
(2)	Rough carpenters	0.063
(3)	Brickmasons & blockmasons	0.077
(4)	Electrical & electronics repairers, commercial	0.080
(5)	Industrial machinery mechanics	0.081
(6)	Drywall & ceiling tile installers	0.082
(7)	Plumbers	0.082
(8)	Heating & air conditioning mech. & installers	0.085
(9)	Electricians	0.087
(10)	Electrical power-line installers & repairers	0.089
(11)	Farm equipment mechanics	0.090
(12)	Forest & conservation workers	0.091
(13)	Maintenance & repair workers, general	0.092
(14)	Machinists	0.093
(15)	Surveying technicians	0.093
(16)	Aircraft mechanics & service technicians	0.094
(17)	Home appliance repairers	0.095
(18)	Automotive master mechanics	0.095
(19)	Model makers, wood	0.096
(20)	Lay-out workers, metal & plastic	0.096
(21)	Truck drivers, heavy & tractor-trailer	0.097
(22)	Pipe fitters & steamfitters	0.098
(23)	Chemical plant & system operators	0.098
(24)	Tool & die makers	0.098
(25)	Signal & track switch repairers	0.099
(26)	Mobile heavy equip. mechanics, ex. Engines	0.099
(27)	Maintenance workers, machinery	0.100
(28)	Woodworking machine operators, ex. Sawing	0.100
(29)	Electric motor & power tool repairers	0.101
(30)	Job printers	0.101
(31)	Water waste treatment plant operators	0.102
(32)	Cooling & freezing equip. operators	0.102
(33)	Millwrights	0.102
(34)	Motorboat mechanics	0.103
(35)	Telecom. equip. installers & repairers, ex. Line	0.103
(36)	Patternmakers, metal & plastic	0.104
(37)	Crushing, grinding & polishing machine operators	0.104
(38)	Elevator installers & repairers	0.104
(39)	Electrical & electronics repairers, powerhouse	0.104
(40)	Separating & filtering machine operators	0.105
(41)	Manufacturing production technicians	0.106
(42)	Fiberglass laminators & fabricators	0.107
(43)	Structural iron and steel workers	0.107
(44)	Patternmakers, wood	0.107
(45)	Mechanical engineering technicians	0.108
(46)	Insulation workers, mechanical	0.108
(47)	Explosives workers, ordnance handling experts & blasters	0.109
(48)	Medical equipment repairers	0.109
(49)	Electronic equipment installers & repairers, motor vehicles	0.109
(50)	Drilling & boring machine operators, metal and plastic	0.110

<u>Step Four</u>: <u>Limit the number of similar occupations</u>. Among the 45 construction occupations analyzed in O*NET, the number of "sufficiently similar" occupations ranged

from 17 (for Construction & Building Inspectors) to 131 (for Boilermakers). To be conservative, we considered only the 50 occupations most similar to each construction occupation. In the case of Carpenters, for example, that reduced the number of occupations considered similar to Carpenters from 65 to 50 and thereby further reduced the distance any included occupation was from Construction Carpenter, from .116 to .110.

Table 6.3 provides examples of the occupational matches that emerged from this four-step process. Overall, 44.4% of the occupations selected as similar to on-site construction occupations are other construction occupations. For example, Table 6.3, the occupation most similar to Construction Laborers is Helpers-Brick, Block and Stone Masons, and the occupation most similar to Painters is Glaziers.

In the remaining 55.6% of matches, the occupations identified as similar to a construction occupation is a "blue collar" field outside construction -- for instance, the match of construction Pipelayers, Plumbers, Pipefitters & Steamfitters to non-construction Derrick Operators - Oil and Gas. Many of the matches are to semi-skilled and skilled positions in manufacturing -- for example, the match of Construction Carpenters to Millwrights. Still other common matches are to installation and repair occupations -- for instance, the match of Electricians to Installers/Repairers of Heating and Air Conditioning Systems. Thus, most matches have considerable "face validity" -- that is, they appear readily understandable and reasonable.

To understand the matching process fully, however, it is useful to examine matches that, at first appearance, might seem less plausible than the examples in the previous paragraph. For example, consider the match in Table 6.3 of the Pipelayers, Plumbers, Pipefitters & Steamfitters to Forest & Conservation Workers. How could there be a high degree of similarity between persons whose working lives are spent under kitchen sinks and those whose working lives are spent in wilderness? The answer is that, despite such obvious differences in working conditions, O*NET reports that workers in these two occupations are:⁹

- identical in 3 characteristics: Realistic Interests, Support Values, and Concern for Others;
- highly similar in 16 characteristics: Verbal Ability, Quantitative Ability, Memory, Perceptual Ability, Physical Control, Physical Strength, Endurance, Visual Acuity, Auditory Acuity, Initiative, Leadership, Cooperation, Self Control, Dependability, Integrity, and Stress Tolerance; and

⁹ The characteristics discussed here are those listed in Table 6.1. In this comparison, we define "identical" as a distance of .00, "highly similar" as a distance of < .05, and "generally similar" as a distance between .05 and < .11.

Table 6.3 10Examples of Occupations among the Occupations Selectedas Similar to TenLarge On-site Construction Occupations

(a)	(b)	(c)	(d)		
Construction Occupation	Occupation at the Smallest Distance	Occupation at the Median Distance	Occupation at the Largest Distance		
Construction laborers	Helpers—brick, block, stone &b tile/marble	Telecommunications line installers	Operating engineers & other constr. equip. operators		
Construction carpenters	Rough carpenters	Millwrights	Sheet metal workers		
Painters, construction & maintenance	Glaziers	Roustabouts, oil & gas	Structural metal fabricators & fitters		
Electricians	Heating & air conditioning mechanics & Installers	Rough carpenters	Engine & other machine assemblers		
Pipelayers, plumbers, pipefitters & steamfitters	Forest & conservation workers	Derrick operators, oil & gas	Refrigeration mechanics & installers		
Operating engineers & other constr. equip. operators	Electrical motor & power tool repairers	Derrick operators, oil & gas	Auto body & related repairers		
Roofers	Painters, construction & maintenance	Roustabouts, oil & gas	Helpers – brick masons, stone masons		
Brick masons & block masons	Rough carpenters	Electrical motor & power tool repairers	Pipefitters & steamfitters		
Drywall & ceiling tile installers	Rough carpenters	Electrical & electronic repairers	Cooks, short order		
Carpet, floor & tile installers & finishers	Cement masons & concrete finishers	Mine cutting & channeling machine operators	Plating & coating machine operators		

¹⁰ Table 6.3 is extracted from Appendix Table H.2 in Appendix H.

• Generally similar in 23 of the remaining 24 characteristics, ranging from Spatial Ability to Persistence.

Furthermore, consistent with the observation that the two occupations typically occur in very different physical settings, the only worker characteristic in which the two occupations differ substantially is the value workers place on working conditions, where the distance between the two occupations is .25. That single strongly-differing characteristic is, however, more than offset by the high degree of similarity on the remaining 42 characteristics.

In many cases, a construction industry employer seeking to hire workers for onsite construction jobs might actually hire workers from occupations identified as similar. For instance, Maintenance and General Repair Workers is one of the occupations identified as similar to Dry Wall Installers. Here, persons currently working as Maintenance and General Repair Workers might literally be available for and interested in becoming Dry Wall Installers -- particularly because the average earnings in the latter field is nearly 20% higher than in the former.¹¹

However, availability in that limited, literal sense may be precluded because workers in the similar occupations do not currently possess job skills specific to the construction occupation in question. In addition, some current workers in the nonconstruction occupations might not be interested in transferring to a construction occupation in mid career because they have acquired skills and seniority in their present occupations. However, such literal availability is not necessary for an occupation to be considered similar in our availability analysis. Instead, the focus is on occupations where the workers have similar abilities and interests to workers in a corresponding construction occupation. Consider, for example, Home Appliance Repairers, which is similar to Electricians. Persons currently employed as Home Appliance Repairers may or may not be currently willing to move to the counterpart construction occupation. They may or may not possess the occupationally-specific skills or licenses to do so. However, the similarity in their abilities and interests to those of Electricians suggests that, earlier in their careers, they might have been available and interested in starting on career paths leading to that construction occupation.

It is in that broader, longer-run sense that similar occupations are reasonable to include in calculating standards of availability for construction occupations. In effect, they examine the question of worker availability from the point of view of: "If this nonconstruction occupation employs X percentage of women and minorities among its workers, why is that not true of the corresponding construction occupation as well?" They establish a more accurate measure of the discrimination-free expected representation of women and minorities in construction occupations than current employment in those construction occupations alone.

¹¹ US Bureau of Labor Statistics (2007), Table 2.

Estimating Availability

The consequence of including similar occupations when estimating availability becomes evident when demographic information on the workforce is attached to the occupations. As Chapter 4 discussed, the most current nation-wide data describing the demographic composition of the workforce in specific occupations is the U.S. Census Bureau's American Community Survey compiled during 2006-2008 (ACS 2006-2008). Table 6.4 presents the availability computed from ACS of women, African Americans, and Hispanics for the 10 largest construction occupations analyzed in O*NET.¹²

Table 6.4 highlights the difference between availabilities computed using current employment in a construction occupation alone and those computed using current employment in that occupation and the set of similar occupations identified using the procedure described in the first half of this chapter. Consider, for example, Drywall Installers. According to the fifth row of Table 6.4, nation-wide, women are 2.5% of persons currently employed in this occupation, but they are 7.5% of workers in Drywall Installers and 49 other occupations similar to Drywall Installer, an increase of 5.0 percentage points. In parallel, African Americans are 5.6% of persons currently employed in this occupations, an increase of 4.1 percentage points.

Data on Drywall Installers for Hispanics illustrates a different situation. Hispanics constitute 51.2% of persons currently employed as Drywall Installers but 20.2% of workers in all occupations in Drywall Installers plus its similar occupations, a decrease of 31.0%. As Chapter 5 foreshadowed, this pattern of representation in an onsite construction occupation exceeding that in the occupation's broader group of similar occupations is common for Hispanics. As the final row of Table 6.4 reports, it occurs in 63.6% of the on-site construction occupations where a comparison can be made.

However, a finding of over-representation is the exception for the other demographic groups examined in Table 6.4. For women, it occurs in only 4.7% of construction occupation; for African Americans, in 18.6%; and for Asians, in 16.3%. When all 45 construction occupations are combined, the nation-wide results for all demographic groups examined are as follows:¹³

• Women represent 3.0% of all workers in the construction occupations but 8.1% of workers in those occupations' groups of similar occupations. Thus, when availability is computed from the construction occupations' similar occupations rather than construction occupations alone, the standard of availability or expected employment increases by 5.1 percentage points. Stated differently, in

¹² Appendix G provides availability figures for additional demographic groups as well as additional occupations.

¹³ See the next to last row of Table 6.3 and Row (46) in Appendix Tables G.1–G.5.

changing from 3.0% to 8.1%, representation increases to 270% of the former figure.

Table 6.414Representation of Women, African Americans, and Hispanics in
Selected On-Site Construction Occupations, Nationwide,
American Community Survey, 2006-2008

(a)	(b)		(d)	(e)	(f)	(g)	(h)	(i)	(j)
	Female %		African American %		Hispanic %				
Occupation	In this Occu- pation Alone	In this Occupa- tion's Similar Occupa- tions	Differ- ence	In this Occu- pation Alone	In this Occupa- tion's Similar Occupa- tions	Differ- ence	In this Occu- pation Alone	In this Occupa- tion's Similar Occupa- tions	Differ- ence
Construction carpenters	1.8%	7.0%	5.2%	5.0%	9.2%	4.2%	25.5%	18.4%	-7.1%
Construction laborers	3.2%	8.3%	5.1%	8.8%	10.8%	2.0%	37.0%	28.7%	-8.3%
Operating engineers & other constr. equip. ops.	2.3%	9.7%	7.4%	6.2%	11.2%	5.0%	13.2%	18.0%	4.8%
Drywall & ceiling tile installers	2.5%	7.5%	5.0%	5.6%	9.7%	4.1%	51.2%	20.2%	- 31.0%
Electricians	2.3%	4.1%	1.9%	7.5%	8.6%	1.1%	14.3%	18.4%	4.1%
Painters, construction & maintenance	7.3%	10.1%	2.8%	7.0%	9.8%	2.8%	37.5%	31.0%	-6.5%
Floor layers	2.4%	12.6%	10.2%	4.9%	10.8%	5.9%	38.6%	28.1%	- 10.5%
Plumbers	1.5%	6.0%	4.5%	7.5%	9.2%	1.7%	19.7%	19.0%	-0.7%
Roofers	1.4%	10.3%	9.0%	7.6%	10.3%	2.7%	41.9%	28.0%	- 13.9%
Weighted average of 45 occupations	3.0%	8.1%	5.1%	7.3%	9.9%	2.6%	27.0%	22.8%	-4.1%
% of occups. w/ negative difference			4.7%			18.6%			62.8%

¹⁴ Table 6.4 is extracted from Appendix Tables G.1, G.2, and G.5 in Appendix G.

- African Americans represent 7.3% of all workers in the construction occupations but 9.9% of workers in those occupations' groups of similar occupations. Thus, when availability is computed from the construction occupations' similar occupations rather than the construction occupations alone, the standard of availability or expected employment increases by 2.6 percentage points. Stated differently, in changing from 7.3% to 9.9%, expected representation increases to 136% of the former figure.
- Asians represent 1.8% of all workers in the construction occupations but 2.4% of workers in those occupations' groups of similar occupations. Thus, when availability is computed from the construction occupations' similar occupations rather than the construction occupations alone, the standard of availability or expected employment increases by 0.6 percentage points. Stated differently, in changing from 1.8% to 2.4%, expected representation increases to 133% of the former figure.
- American Indians/Alaska Natives and Native Hawaiians/Other Pacific Islanders combined represent 2.1% of all workers in the construction occupations but 1.9% of workers in those occupations' groups of similar occupations. Thus, when availability is computed from the construction occupations' similar occupations rather than the construction occupations alone, the standard of availability or expected employment decreases by 0.2 percentage points. Stated differently, in changing from 2.1% to 1.9%, expected representation decreases to 95% of the former figure.
- Hispanics represent 28.6% of all workers in the construction occupations but 24.1% of workers in those occupations' groups of similar occupations. Thus, when availability is computed from the construction occupations' similar occupations rather than the construction occupations alone, the standard of availability or expected employment decreases by 4.5 percentage points. Stated differently, in changing from 28.6% to 24.1%, expected representation decreases to 84% of the former figure.

Clustering Occupations

As the previous section demonstrates, availability numbers can be computed at the nation-wide level for all 45 construction occupations separately analyzed in O*NET. However, at least three considerations suggest that, for practical purposes, it may be appropriate to combine the resulting estimates into broader occupational groups.

One consideration is whether the number of observations available in ACS data is sufficient to provide reliable, precise estimates. In formal statistical terms, the concern here is that small samples are associated with large "margins of error." This concern becomes particularly acute when availability is computed for smaller occupations (for example, Paving, Surfacing & Tamping Equipment Operators, with 24,000 workers nationwide)

for smaller gender, race, and ethnicity groups (for example, Asians, with an expected representation in construction occupations of 2.8% nation-wide), in smaller local labor markets (for example, the Lewiston, ID-WA Economic Area, which accounts for less than one-tenth of one percent of the nation's economic activity). Although the numbers in Appendices G and H demonstrate that these figures can be calculated, caution is appropriate in relying on many of them.

A second consideration supporting the clustering of construction occupations when computing availability is the similarity of construction occupations discussed throughout this chapter. In terms of workers currently available to perform specialized kinds of construction work, occupations may not be interchangeable in the short run. This is particularly true of skilled construction occupations including those requiring licenses to practice, such as electricians and plumbers. However, for many other construction occupations, workers may move more flexibly across occupational boundaries, reflecting overlaps in job duties and skill requirements. Thus, carpenters may install drywall rather than deferring to a drywall installer and windows rather than deferring to a glazier; plasterers may paint walls as well as plaster them; roofers may double as insulation workers; and laborers may work as trade helpers and vice-versa. Thus, in practice, division of construction work into all 45 separate occupations analyzed in this chapter may be excessive.

A final consideration favoring occupational clustering is minimization of administrative burdens for users of availability figures. If employers are provided availability figures for construction occupations separately, they might have to perform as many as 45 separate availability and utilization analyses. To do so, they would not only have to look up as any as 45 availability figures for each demographic group in each local labor market in which they have employees. They would also have to keep track of employees or employee hours in the same multiple categories. Using standard practices already established for preparing affirmative action plans,¹⁵ employers might themselves simplify their analyses by clustering occupations into broader "job groups," but that clustering itself would require employers to conduct additional analyses.

Together these three considerations suggest that availability figures covering groups of construction workers broader than specific occupations would promote administrative efficiency without unduly compromising, or even enhancing, conceptual correctness and accuracy.

With respect to compliance with federal equal opportunity requirements, one system of occupational grouping is particularly well established. This is the 10-category

¹⁵ US OFCCP (2009B).

system utilized in EEO-1 reports. There, two categories are relevant to on-site construction workers: 16

- <u>Craft Workers (skilled)</u>. "...[J]obs in this category include higher skilled occupations in construction (building trades craft workers and their formal apprentices). Examples include: boilermakers; brick and stone masons; carpenters; electricians; painters...; glaziers; pipelayers, plumbers, pipefitters, and steamfitters; plasterers; roofers; [and] elevator installers." Thus, it encompasses all on-site construction occupations analyzed in O*NET other than those discussed in the next bullet.
- <u>Laborers and Helpers (unskilled)</u>. "Jobs in this category include workers with more limited skills who require only brief training to perform tasks that require little or no independent judgment. Examples include: ...construction worker helpers;...construction laborers; [and] septic tanks servicers and sewer pipe cleaners."

Larger construction employers are already familiar with this taxonomy from using it in filing EEO-1 reports. Smaller construction employers would find the taxonomy consistent with distinctions, such as that that between skilled workers and unskilled workers, already in common use in their industry. Because of its compatibility with current practices in both the construction industry and EO enforcement activities, a twocategory division into "skilled workers" and "unskilled workers" is a logical choice if availabilities are to be computed for categories broader than individual occupations.

Accordingly, when we compute availabilities in Chapter 8 and report them in Appendix H, we provide these figures for these two groups of occupations as well as for the 45 individual occupations themselves.

¹⁶ These descriptions are From US EEOC (2006), Section 5. A third, closely-related category in the EEOC reporting system, which has been used in some analyses in Chapters 4 and 5, is Operatives (Semi-Skilled). However, the EEOC generally applies this grouping to manufacturing occupations and places semi-skilled workers such as operators of construction equipment into the skilled crafts category.

Chapter 7 Local Labor Markets

The demographic profile of American workers varies considerably among locations in the nation. For example, in the 2000 Census:¹

- African Americans were 31.3% of the Civilian Labor Force in Mississippi but 0.2% in Montana;
- Hispanics were 27.5% of the Civilian Labor Force in Texas but 0.6% in Maine;
- Asians were 11.1% of the Civilian Labor Force in California but 0.5% in North Dakota;
- American Indians/Alaska Natives were 7.0% of the Civilian Labor Force in New Mexico but 0.1% in Pennsylvania;² and
- Women were 49.1% of the Civilian Labor Force in Maryland but 44.7% in Utah.

The implication of such variation is that for race and gender employment availabilities accurately to reflect the work force available to construction contractors, it is necessary to calculate them by local labor market rather than nationally. This chapter addresses the question of how those local labor markets can reasonably be defined.

Why a Uniform Definition?

OFCCP requires supply and service contractors developing affirmative action plans to determine for themselves the geographical range of the labor market for which it is appropriate to calculate availability, and to do so separately for individual job groups:³

Contractors must calculate...percentages of women and minorities with requisite skills in the reasonable recruitment area....The "reasonable recruitment area" represents the area from which the contractor usually

¹ US Census Bureau (2010A). Here, race figures are for non-Hispanics identifying with that race group alone.

² Parallel data on the Civilian Labor Force are not available for Hawaii, the location where Native Hawaiians and Pacific Islands are most prevalent. However, according to the 2000 Census, Native Hawaiians/Other Pacific Islanders were 9.1% of residents in that state, compared to, for example, less than 0.1% in Ohio (U.S. Census Bureau, 2010C).

³ US OFCCP (2009B), p. 21.

seeks or reasonably could seek workers for a particular job group. For example, it may coincide with the immediate labor area for unskilled entry-level positions, or it may cover a larger area (state, region, or nation) for managerial or professional positions. Generally speaking, the more complex a job or the higher the position in the organizational structure it occupies, the broader the recruitment area becomes.

To support employers' choices, the Census Bureau's EEO Tabulation from the 2000 Census offers data on the demographic composition of the labor force at five geographical levels: ⁴

- Nation-wide
- States
- Metropolitan Areas
- Counties
- Places (e.g., cities)

Paralleling this requirement, OFCCP could require each construction contractor to determine an appropriate reasonable recruitment area for each on-site construction occupation it employs. However, at least three circumstances suggest adopting a different approach.

The first circumstance is that, as Chapter 6 discussed, on-site construction occupations are relatively few in number -- only 45 (5.2%) among the 838 occupations for which O*NET provides data -- and relatively similar to each other in many of the characteristics that O*NET measures. Although it may be appropriate to define different geographical labor markets for, for example, physicists (nation-wide) and janitors (local), different definitions are not equally necessary for, for example, carpenters and plumbers. For on-site construction occupations, hiring is almost universally local.⁵

Second, there is little variation among construction employers in the range of their recruitment. This uniformity is consistent with the industry's tendency to follow standard practices discussed in Chapter 2, and it generally applies to both smaller construction firms and larger ones. This circumstance differentiates the construction industry from a number of other industries. For example, within the accounting services industry, the "Big Four" accounting firms whose practices tend to be national or even global in scope tend to recruit nationally for entry-level accounting professionals, whereas an accounting firm with half a dozen employees serving a local clientele and located in an urban area would typically recruit such employees locally.

⁴ U.S. Census Bureau (2010A) For reasons of confidentiality, this source does not provide data for smaller entities at these levels (e.g. in places with fewer than 50,000 residents).

⁵ Exceptions primarily involve highly specialized skills not available in smaller local labor markets -- for example, Elevator Installers in thinly-populated rural areas, or Structural Iron and Steel Workers to work at "skyscraper" heights.

A third circumstance, also discussed in Chapter 2, is the peripatetic, project-byproject nature of construction work. Employers in many industries typically employ workers for extended periods at offices or plants whose locations are fixed. In contrast, both large and small construction firms typically accept assignments of limited duration in locations that vary from project to project, often hiring different employees locally for each project. Thus, construction firms would have to determine local labor markets repeatedly, for every project, rather than only once.

Together, these circumstances suggest the desirability of a standard definition of the relevant labor market ('reasonable recruitment area") for on-site construction workers.

Selecting the Appropriate Definition

If we are to specify such a single standard, what should it be?

As the previous section discussed, hiring for on-site construction occupations is predominantly local. Therefore, large geographical areas -- such as the entire nation, multi-state regions, or whole states -- would generally be inappropriately broad.

A narrower grouping to consider is the U.S. Census Bureau's Core-Based Statistical Areas (CBSAs). A CBSA is a multi-county area with a relatively high population density at its core -- a central city or cities -- and surrounding counties with substantial worker commuting ties to the core or each other. CBSAs with large cities at their center are called Metropolitan Statistical Areas, while those with smaller urban centers are called Micropolitan Areas.⁶ There are currently 953 CBSAs across the United States.

Because employment commuting patterns are central to the definition of CBSAs, these areas are used as local labor market in many equal employment opportunity enforcement contexts, as well as employment research. However, several considerations suggest they not be used that way for on-site construction workers.

The first consideration is that the CBSAs do not cover the entire nation. Although they encompass about 94% of the U.S. population, they cover only 56% of its 3,140 counties.⁷ A second definition of local labor markets would have to be established for the uncovered locations and their workers. Since no standard definition exists comparable to the CBSAs for urban areas, considerable analytical effort might be required to do so in a defensible manner.

⁶ The current standards for defining CBSAs are in US Office of Management and Budget (2000). In 2013, these standards will be superseded by those in US Office of Management and Budget (2010).

⁷ US Office of Management and Budget (2010).

A second consideration is that dividing the nation into a large number of local labor markets -- 953 CBSAs plus dozens or perhaps hundreds of additional rural areas -- would result in many local labor markets with relatively small populations. When data from the American Community Survey (ACS) is then used to calculate availability in these locations of small demographic groups in small occupations, the number of observations in the ACS would prove too limited for stable, accurate estimates. For example, in Alaska over the period 2006 through 2008, the American Community Survey actually sampled only eight carpenters of all demographic backgrounds.

A third consideration is differences in commuting patterns between on-site construction workers and the remainder of the work force. As Chapter 2 discussed, the project-by-project nature of typical construction work means that construction workers must often be unusually mobile. They may accept jobs at a substantial distance from their homes and move temporarily to the work sites, living in campers or rented accommodations only as long as the job lasts.⁸ In that circumstance, although they are part of a local labor force for one project, they are in a different local area for their next project and are not appropriately counted in their former locality on an ongoing basis.

Alternatively, construction workers often commute daily over unusually long distances to job sites.⁹ Table 7.1 compares the commuting patterns of on-site construction workers in the construction industry to those of all other workers in all other industries. It shows that the average minutes of a one-way commute are 34% longer for the construction workers. It also reports the proportion of workers experiencing "extreme commutes," defined here as lasting an hour or more one way. The proportion of on-site construction workers in the construction industry with those commutes is 221% -- more than double -- that of other workers.

⁸ In one illustration of this pattern, after failing to find work for six months near his home on the Big Island of Hawaii, one carpenter accepted work on the island of Oahu, living there during the work week and commuting home every weekend (Allgire, 2010). For more systematic data on this pattern, see "Hazardous Materials Workers" in U.S. Bureau of Labor Statistics (2010C); "Operating Engineers" in Building Contractors Association of New Jersey (2010); and Tuchsen, Hannerz & Sopangenberg (2005); and Fahys-Smith (1983).

As part of this practice, construction unions often make provisions for "booming out" -that is, allowing members of one union local to work in the jurisdiction of a different local while benefits such as pension contributions continue to be administered in their "home" location.

⁹ In one illustration of this pattern, a worker residing in Stroudsburg, PA was reported to take a bus at 4:30 AM daily to get to his unionized construction job in Manhattan, returning on that bus in the evening (Bloomsberg Business Week, 2005). For more systematic data on extreme commuting, see Pisarski (2006).

Table 7.110Commutes to Work for On-Site ConstructionWorkers in the Construction Industryand Others, Nation-wide, AmericanCommunity Survey 2006-2008

(a)	(b)	(c)	(d)
Measure	On-Site Construction Workers in the Construction Industry	All Workers in All Other Industries	Column (c) / Column (b)
Average commute time (minutes one way)	33.2	24.7	1.34
% of one-way commutes lasting \geq one hour	16.6%	7.5%	2.21

Together, these three circumstances suggest that an appropriate definition of the local labor market for on-site construction occupations would be

- similar to CBSAs in representing integrated local markets; but
- larger than CBSAs; and
- cover the entire nation.

A well-established system of geographical entities meeting all those requirements is the Economic Areas (EAs) defined by the Bureau of Economic Analysis (BEA) of the U.S. Department of Commerce. EAs are defined as regional markets for labor, products, and information that consist of one or more metropolitan or micropolitan statistical areas and the surrounding counties that are economically related to those areas.¹¹ The nation is currently is divided into 179 EAs. The largest -- such as the New York-Newark-Bridgeport NY-NJ-CT area -- cover parts of multiple states. Among smaller EAs, the entire state is a single EA in Alaska (the Anchorage MSA) and Hawaii (the Honolulu EA).

¹⁰ Table 7.1 is tabulated by the authors from the American Community Survey 2006-2008, nationwide.

¹¹ Johnson & Kort (2004), p. 68.

An advantage of EAs is that each is defined in terms of counties. That means that a construction contractor can readily find the EA relevant to any of its work sites via a simple table using only the state and county where it is located. Appendix Table F.1 in Appendix F provides a table relating each of the nation's 3,140 counties or countyequivalents to its Economic Area.

Consistent with the approach discussed here, Chapter 8 and Appendix H present availability figures for each of the 179 EAs.

Representing Economic Areas in the ACS

For use outside the Census Bureau, such as to develop this report, the Census Bureau releases American Community Survey (ACS) data in geographical units called Public Use Microdata Areas (PUMAs). Thus, to compute local availabilities as we do in Chapter 8 and Appendix H, it is necessary to match ACS PUMAs to Economic Areas.

For 77% of PUMAs nationwide, this is a simple process, since each PUMA is contained entirely within one EA. Because each PUMA encompasses about 100,000 persons, that situation prevails in the center of large urban areas, where individual PUMAs are smaller than most of the counties that are the building blocks of EAs.

However, the remaining 23% of PUMAS join together multiple rural counties with small populations, and their constituent counties may be part of different Economic Areas. The most extreme example involves PUMA 03100, which covers six rural counties in Central Texas, each of which is associated with a different Economic Area (Austin, Dallas, Midland, San Antonio, San Angelo, and Lubbock, respectively). In our computations of availabilities for EAs, data from such PUMAs are included in all Economic Areas of which the PUMA is any part. Thus, data from some PUMAs are included in the computation of availabilities in more than one EA. This "inclusive" approach seems appropriate in light of the discussion, earlier in this chapter, of the broad area within which on-site construction workers often commute and construction firms often operate.

This procedure is reasonable for preparing the availability figures from the American Community Survey 2006-2008 that appear in Appendix H. According to current plans, the U.S. Census Bureau will release an updated EEO Special Tabulation based on the ACS 2006-2010 sometime in 2012, and that tabulation will report workforce data by Economic Areas. When that release occurs, our procedure for matching ACS PUMAs data to EAs will no longer be necessary.

Chapter 8 New Availability Figures

The "bottom line" of Chapters 6 and 7 is a new set of procedures for computing availability. The principal features of this procedure are:

- 1. Availabilities are based on persons in occupations similar to construction occupations, not construction occupations alone.
- 2. Availabilities are based on data from the most recent American Community Survey, ACS 2006-2008.
- 3. Availabilities are reported for five demographic groups:
 - Women
 - Hispanics
 - African Americans
 - Asians
 - American Indians/Alaska Natives and Native Hawaiians/ Other Pacific Islander (abbreviated "AINH").
- 4. Availabilities are reported for 179 Economic Areas.
- 5. Availabilities are reported for both 45 individual construction occupations and for two broad groups of occupations: "Skilled" and "Unskilled."

Appendix Table H.1 in Appendix H provides availability figures computed under this procedure for the "Skilled Craft Workers" and "Unskilled Laborers & Helpers" categories. It also reports figures for "All On-Site Construction Occupations," which is those two groups combined.¹

Table 8.1. reports the nation-wide averages for these figures, reported in the first row of Appendix Table H.1. The remaining rows of Table H.1 provide parallel figures for the 179 Economic Areas.

¹ As Footnote 1 in Chapter 5 discussed, the sum of the figures in each row adds to more than 100% because of overlaps among the demographic groups reported.

Table 8.1 2Availabilities in Skilled and Unskilled Occupations Nationwide
Calculated using the Methodology in Chapter 6

(a)	(b)	(c)	(d)	(e)	(f)
Group	Women	Hispanics	Af. Ams.	Asians	AINH
Craft workers (skilled)	7.9%	21.6%	9.3%	2.2%	1.4%
Laborers & helpers (unskilled)	9.8%	27.1%	11.2%	1.9%	1.5%
All on-site construction occupations	8.3%	23.0%	9.8%	2.1%	1.4%

Appendix Table H.2 repeats these availability figures for skilled, unskilled, and all workers and then adds counterpart figures for 45 construction occupations. Table 8.2 provides a sample page from this table, for the first Economic Area in alphabetical order, Aberdeen SD.

Table 8.2 3Availabilities in On-Site Construction Occupations in
the Aberdeen, South Dakota Economic Area
Calculated using the Methodology in Chapter 6

(a)	(b)	(c)	(d)	(e)	(f)
Occupation	Women	Hispanics	Af. Ams.	Asians	AINH
Craft workers (skilled)	8.7%	0.9%	0.1%	0.1%	9.4%
Laborers & helpers (unskilled)	13.4%	2.6%	0.5%	0.2%	15.6%
All on-site construction occupations	9.8%	1.3%	0.2%	0.1%	10.8%
Boilermakers	4.9%	0.3%	0.2%	0.0%	17.2%
Brickmasons and blockmasons	6.5%	1.0%	0.0%	0.0%	8.1%
Stonemasons	8.6%	0.8%	0.1%	0.0%	5.6%
Construction carpenters	6.7%	0.7%	0.0%	0.0%	8.1%
Rough carpenters	7.2%	0.7%	0.0%	0.0%	7.8%
Carpet installers	13.5%	2.1%	0.6%	0.2%	18.1%
Floor layers, ex. carpet, wood & hard tiles	11.2%	1.8%	0.1%	0.0%	9.1%
Floor sanders and finishers	22.0%	2.3%	0.2%	1.3%	7.2%
Tile and marble setters	6.7%	2.0%	0.1%	0.0%	11.8%
Cement masons & concrete finishers	6.9%	1.3%	0.3%	0.0%	18.5%
Terrazzo workers & finishers	7.6%	0.3%	0.2%	0.0%	18.3%
Construction laborers	13.3%	2.6%	0.5%	0.2%	15.7%
Paving, surfacing & Tamping equip. ops.	13.6%	2.2%	0.5%	0.2%	17.7%

² Table 8.1 is excerpted from Appendix Table H.1 in Appendix H.

³ Table 8.2 is excerpted from Appendix Table H.2 in Appendix H.

Pile-driver operators	6.0%	0.4%	0.1%	0.0%	7.5%
Operating engineers & other equip. ops.	6.9%	0.8%	0.0%	0.0%	7.5%
Drywall and ceiling tile installers	7.6%	0.7%	0.0%	0.0%	8.4%
Tapers	29.0%	0.8%	0.2%	1.3%	17.4%
Electricians	5.9%	0.6%	0.0%	0.0%	8.6%
Glaziers	15.4%	2.4%	0.4%	1.5%	14.9%
Insulation workers, floor, ceiling & wall	14.3%	2.5%	0.2%	0.2%	6.8%
Insulation workers, mechanical	10.9%	0.6%	0.0%	0.0%	8.7%
Painters, construction & maintenance	15.9%	1.9%	0.3%	1.2%	12.5%
Paperhangers	17.0%	1.2%	0.1%	0.0%	17.1%
Pipelayers	17.1%	2.7%	0.3%	0.2%	7.0%
Pipe fitters and steamfitters	4.0%	0.3%	0.0%	0.0%	7.5%
Plumbers	5.7%	0.5%	0.0%	0.0%	7.8%
Plasterers & stucco masons	11.6%	1.8%	0.1%	0.1%	6.7%
Reinforcing iron & rebar workers	5.0%	1.5%	0.1%	0.0%	8.7%
Roofers	14.1%	2.1%	0.3%	0.1%	7.4%
Sheet metal workers	6.2%	0.3%	0.2%	0.0%	20.7%
Structural iron & steel workers	5.6%	0.2%	0.2%	0.0%	7.2%
Helpersbrickmasons, blockmasons,	12.4%	2.1%	0.5%	0.2%	17.9%
stonemasons & tile and marble setters	12.4%	2.170	0.5%	0.2%	17.9%
Helpers—carpenters	19.7%	2.9%	0.4%	0.2%	8.1%
Helpers—electricians	13.0%	1.8%	0.5%	0.2%	15.7%
Helpers painters, paperhangers, plasterers, and stucco masons	23.1%	1.7%	0.2%	0.9%	13.8%
Helperspipelayers, plumbers, pipefitters & steamfitters	24.9%	1.9%	0.4%	0.1%	16.2%
Helpers—roofers	14.1%	2.7%	0.5%	0.2%	16.1%
Construction and building inspectors	10.5%	0.0%	0.0%	0.0%	12.7%
Elevator installers and repairers	10.2%	0.6%	0.0%	0.0%	10.0%
Fence erectors	13.3%	2.7%	0.3%	0.2%	8.1%
Hazardous materials removal workers	6.2%	0.2%	0.0%	0.0%	8.9%
Highway maintenance workers	7.3%	1.1%	0.2%	0.0%	15.5%
Rail-track laying & maint. Equip. ops.	13.5%	1.9%	0.3%	0.2%	14.4%
Septic tank servicers & sewer pipe	5.3%	0.2%	0.2%	0.0%	14.4%
Segmental pavers	18.6%	2.2%	0.4%	0.2%	18.8%

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APPENDIX A

Appendix Table A.1 Women in On-Site Construction Occupations in the Construction Industry and Other Industries, 2000 Census EEO Special Tabulation

1	(a) (b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
		En	Total ployment					Utilizat	ion of Woi	men				Under-Utiliza	tion of Women
	Occupation		in the nstruction ndustry	I	Ir	All ndustries			nstructior Industry	1	C	ndustries Other than onstructior	1	Female % in Construction Ind	Shortfall of Women in
		Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Female Workers	Female %	Total Workers	Female Workers	Female %	Total Workers	Female Workers	Female %	Female % in Other Industries	Construction Industry
(1)	676 Carpenters	1,147,954	23.4%	23.4%	1,304,505	23,500	1.8%	1,147,954	17,589	1.5%	156,551	5,911	3.8%	-2.2%	-25,755
(2)	677 Construction laborers	1,005,274	20.5%	43.9%	1,067,920	35,032	3.3%	1,005,274	32,064	3.2%	62,646	2,968	4.7%	-1.5%	-15,563
(3)	635 Electricians	442,645	9.0%	52.9%	681,315	16,707	2.5%	442,645	8,735	2.0%	238,670	7,972	3.3%	-1.4%	-6,050
(4)	642 Painters, construction & maintenance	430,559	8.8%	61.6%	495,320	35,552	7.2%	430,559	29,239	6.8%	64,761	6,313	9.7%	-3.0%	-12,733
(5)	643 Pipelayers, plumbers, pipefitters, & steamfitters	383,299	7.8%	69.5%	509,440	8,440	1.7%	383,299	5,559	1.5%	126,141	2,881	2.3%	-0.8%	-3,195
(6)	632 Misc. construction equipment operators	249,414	5.1%	74.5%	311,760	5,987	1.9%	249,414	4,624	1.9%	62,346	1,363	2.2%	-0.3%	-829
(7)	633 Roofers	184,264	3.8%	78.3%	189,525	2,967	1.6%	184,264	2,779	1.5%	5,261	188	3.6%	-2.1%	-3,806
(8)	634 Brickmasons, blockmasons, & stonemasons	178,214	3.6%	81.9%	187,880	2,067	1.1%	178,214	1,699	1.0%	9,666	368	3.8%	-2.9%	-5,086
(9)	635 Drywall installers, ceiling tile installers, & tapers	166,299	3.4%	85.3%	170,665	4,407	2.6%	166,299	4,125	2.5%	4,366	282	6.5%	-4.0%	-6,616
(10)	636 Carpet, floor, and tile installers & finishers	162,085	3.3%	88.6%	209,900	5,105	2.4%	162,085	3,625	2.2%	47,815	1,480	3.1%	-0.9%	-1,392
(11)	637 Sheet metal workers	80,730	1.6%	90.3%	150,150	6,059	4.0%	80,730	1,230	1.5%	69,420	4,829	7.0%	-5.4%	-4,386
(12)	638 Cement masons, concrete finishers, & terrazo workers	75,804	1.5%	91.8%	79,850	951	1.2%	75,804	849	1.1%	4,046	102	2.5%	-1.4%	-1,062
(13)	673 Highway Maintenance Workers	75,700	1.5%	93.3%	84,649	3,286	3.9%	75,700	2,865	3.8%	8,949	421	4.7%	-0.9%	-696

(29) TOTAL Weighted to Match % of En				2.6%			4.7%	-2.0%	-100,597					
(28) TOTAL	4,909,268	100.0%	100.0%	5,933,978	175,947	3.0%	4,909,268	128,351	2.6%	1,024,710	47,596	4.6%		
(27) 675 Septic tank servicers & sewer pipe cleaners	1,244	0.0%	100.0%	7,620	231	3.0%	1,244	10	0.8%	6,376	221	3.5%	-2.7%	-33
(26) 672 Hazardous materials removal workers	2,804	0.1%	100.0%	19,110	1,704	8.9%	2,804	122	4.4%	16,306	1,582	9.7%	-5.4%	-150
(25) 621 Boilermakers	5,774	0.1%	99.9%	18,385	515	2.8%	5,774	89	1.5%	12,611	426	3.4%	-1.8%	-106
(24) 630 Paving, surfacing, & tamping equipment operators	12,874	0.3%	99.8%	13,505	498	3.7%	12,874	440	3.4%	631	58	9.2%	-5.8%	-743
(23) 678 Paperhangers	14,611	0.3%	99.5%	16,500	4,813	29.2%	14,611	4,452	30.5%	1,889	361	19.1%	11.4%	1,660
(22) 677 Glaziers	17,163	0.3%	99.2%	42,564	1,899	4.5%	17,163	388	2.3%	25,401	1,511	5.9%	-3.7%	-633
(21) 676 Misc. construction & related workers	18,814	0.4%	98.9%	29,850	1,054	3.5%	18,814	489	2.6%	11,036	565	5.1%	-2.5%	-474
(20) 671 Fence erectors	21,724	0.4%	98.5%	26,515	897	3.4%	21,724	544	2.5%	4,791	353	7.4%	-4.9%	-1,057
(19) 670 Elevator Installers & repairers	22,528	0.5%	98.1%	25,790	313	1.2%	22,528	258	1.1%	3,262	55	1.7%	-0.5%	-122
(18) 666 Construction & building inspectors	25,050	0.5%	97.6%	75,465	7,166	9.5%	25,050	1,860	7.4%	50,415	5,306	10.5%	-3.1%	-776
(17) 640 Insulation workers	33,540	0.7%	97.1%	37,705	1,454	3.9%	33,540	995	3.0%	4,165	459	11.0%	-8.1%	-2,701
(16) 646 Plasterers & stucco masons	38,408	0.8%	96.4%	39,180	522	1.3%	38,408	444	1.2%	772	78	10.1%	-8.9%	-3,437
(15) 661 Structural iron and steel workers	56,183	1.1%	95.6%	74,290	1,735	2.3%	56,183	1,103	2.0%	18,107	632	3.5%	-1.5%	-858
(14) 660 Helpers, construction trades	56,310	1.1%	94.5%	64,620	3,086	4.8%	56,310	2,175	3.9%	8,310	911	11.0%	-7.1%	-3,998

Occupations w/Shortfall:	26	
Occupations with Shortfall / 27 Occupations:	96.3%	

Appendix Table A.2 African Americans in On-Site Construction Occupations in the Construction Industry and Other Industries, 2000 Census EEO Special Tabulation

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
		Occupation	the C	oloyment i Constructio		h	All ndustries			onstruction Industry		Industries Other than Construction			% Af. Am. in Construction Industry - % Af. Am.	Shortfall in Af. Am. Workers in Construction Industry Compared to
			Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Af. Am. Workers	Af. Am. %	Total Workers	Af. Am. Workers	Af. Am. %	Total Workers	Af. Am. Workers	Af. Am. %	in Other Industries	their Representation in Other Industries
(1)	676	Carpenters	1,147,954	23.4%	23.4%	1,304,505	57,161	4.4%	1,147,954	46,320	4.0%	156,551	10,841	6.9%	-2.9%	-33,175
(2)	677	Construction laborers	1,005,274	20.5%	43.9%	1,067,920	94,457	8.8%	1,005,274	85,619	8.5%	62,646	8,838	14.1%	-5.6%	-56,203
(3)	635	Electricians	442,645	9.0%	52.9%	681,315	40,048	5.9%	442,645	23,795	5.4%	238,670	16,253	6.8%	-1.4%	-6,348
(4)	642	Painters, construction & maintenance	430,559	8.8%	61.6%	495,320	33,583	6.8%	430,559	25,434	5.9%	64,761	8,149	12.6%	-6.7%	-28,744
(5)	643	Pipelayers, plumbers, pipefitters, & steamfitters	383,299	7.8%	69.5%	509,440	33,289	6.5%	383,299	21,349	5.6%	126,141	11,940	9.5%	-3.9%	-14,933
(6)	632	Misc. construction equipment operators	249,414	5.1%	74.5%	311,760	19,219	6.2%	249,414	14,445	5.8%	62,346	4,774	7.7%	-1.9%	-4,653
(7)	633	Roofers	184,264	3.8%	78.3%	189,525	13,020	6.9%	184,264	12,255	6.7%	5,261	765	14.5%	-7.9%	-14,539
(8)	634	Brickmasons, blockmasons, & stonemasons	178,214	3.6%	81.9%	187,880	21,767	11.6%	178,214	20,435	11.5%	9,666	1,332	13.8%	-2.3%	-4,123
(9)	635	Drywall installers, ceiling tile installers, & tapers	166,299	3.4%	85.3%	170,665	7,760	4.5%	166,299	7,230	4.3%	4,366	530	12.1%	-7.8%	-12,957
(10)	636	Carpet, floor, and tile installers & finishers	162,085	3.3%	88.6%	209,900	10,070	4.8%	162,085	6,985	4.3%	47,815	3,085	6.5%	-2.1%	-3,473
(11)	637	Sheet metal workers	80,730	1.6%	90.3%	150,150	7,990	5.3%	80,730	3,410	4.2%	69,420	4,580	6.6%	-2.4%	-1,916
(12)	638	Cement masons, concrete finishers, & terrazo workers	75,804	1.5%	91.8%	79,850	11,658	14.6%	75,804	10,900	14.4%	4,046	758	18.7%	-4.4%	-3,302
(13)	673	Highway Maintenance Workers	75,700	1.5%	93.3%	84,649	8,990	10.6%	75,700	7,745	10.2%	8,949	1,245	13.9%	-3.7%	-2,787
(14)	660	Helpers, construction trades	56,310	1.1%	94.5%	64,620	6,089	9.4%	56,310	5,180	9.2%	8,310	909	10.9%	-1.7%	-980

(15) 661 Structural iron and steel workers	56,183	1.1%	95.6%	74,290	4,172	5.6%	56,183	3,094	5.5%	18,107	1,078	6.0%	-0.4%	-251
(16) 646 Plasterers & stucco masons	38,408	0.8%	96.4%	39,180	3,966	10.1%	38,408	3,584	9.3%	772	382	49.5%	-40.2%	-15,421
(17) 640 Insulation workers	33,540	0.7%	97.1%	37,705	3,100	8.2%	33,540	2,495	7.4%	4,165	605	14.5%	-7.1%	-2,377
(18) Construction & building inspectors	25,050	0.5%	97.6%	75,465	5,774	7.7%	25,050	1,685	6.7%	50,415	4,089	8.1%	-1.4%	-347
(19) 670 Elevator Installers & repairers	22,528	0.5%	98.1%	25,790	1,102	4.3%	22,528	730	3.2%	3,262	372	11.4%	-8.2%	-1,839
(20) 671 Fence erectors	21,724	0.4%	98.5%	26,515	1,742	6.6%	21,724	1,300	6.0%	4,791	442	9.2%	-3.2%	-704
(21) 676 Misc. construction & related workers	18,814	0.4%	98.9%	29,850	2,451	8.2%	18,814	1,550	8.2%	11,036	901	8.2%	0.1%	14
(22) 677 Glaziers	17,163	0.3%	99.2%	42,564	2,098	4.9%	17,163	660	3.8%	25,401	1,438	5.7%	-1.8%	-312
(23) 678 Paperhangers	14,611	0.3%	99.5%	16,500	302	1.8%	14,611	144	1.0%	1,889	158	8.4%	-7.4%	-1,078
(24) 630 Paving, surfacing, & tamping equipment operators	12,874	0.3%	99.8%	13,505	1,831	13.6%	12,874	1,745	13.6%	631	86	13.6%	-0.1%	-10
(25) 621 Boilermakers	5,774	0.1%	99.9%	18,385	1,598	8.7%	5,774	315	5.5%	12,611	1,283	10.2%	-4.7%	-272
(26) 672 Hazardous materials removal workers	2,804	0.1%	100.0%	19,110	2,023	10.6%	2,804	383	13.7%	16,306	1,640	10.1%	3.6%	101
(27) 675 Septic tank servicers & sewer pipe cleaners	1,244	0.0%	100.0%	7,620	734	9.6%	1,244	160	12.9%	6,376	574	9.0%	3.9%	48
(28) TOTAL	4,909,268	100.0%	100.0%	5,933,978	395,994	6.7%	4,909,268	308,947	6.3%	1,024,710	87,047	8.5%		
(29) TOTAL Weighted to Match % of En				6.3%			10.6%	-4.3%	-210,580					

Note: African Americans = African Americans Alone + African Americans/Whites + African Americans/American Indians.

Occupations w/Shortfall: 25 Occupations with Shortfall / 27 Occupations: 92.6%

Appendix Table A.3 Asians in On-Site Construction Occupations in the Construction Industry and Other Industries, 2000 Census EEO Special Tabulation

i	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
		Occupation	the C	loyment in onstruction ndustry		l	All ndustries			onstruction Industry		c	ndustries Other than onstruction		% Asian in Construction Industry - % Asian	Shortfall in Asian Workers in Construction Industry Compared to
			Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Asian Workers	Asian %	Total Workers	Asian Workers	Asian %	Total Workers	Asian Workers	Asian %	in Other Industries	their Representation in Other Industries
(1)	676	Carpenters	1,147,954	23.4%	23.4%	1,304,505	13,709	1.1%	1,147,954	11,580	1.0%	156,551	2,129	1.4%	-0.4%	-4,031
(2)	677	Construction laborers	1,005,274	20.5%	43.9%	1,067,920	11,277	1.1%	1,005,274	10,700	1.1%	62,646	577	0.9%	0.1%	1,441
(3)	635	Electricians	442,645	9.0%	52.9%	681,315	10,074	1.5%	442,645	5,070	1.1%	238,670	5,004	2.1%	-1.0%	-4,211
(4)	642	Painters, construction & maintenance	430,559	8.8%	61.6%	495,320	8,002	1.6%	430,559	6,910	1.6%	64,761	1,092	1.7%	-0.1%	-350
(5)	643	Pipelayers, plumbers, pipefitters, & steamfitters	383,299	7.8%	69.5%	509,440	4,589	0.9%	383,299	3,460	0.9%	126,141	1,129	0.9%	0.0%	29
(6)	632	Misc. construction equipment operators	249,414	5.1%	74.5%	311,760	1,240	0.4%	249,414	894	0.4%	62,346	346	0.6%	-0.2%	-490
(7)	633	Roofers	184,264	3.8%	78.3%	189,525	1,188	0.6%	184,264	1,134	0.6%	5,261	54	1.0%	-0.4%	-757
(8)	634	Brickmasons, blockmasons, & stonemasons	178,214	3.6%	81.9%	187,880	1,078	0.6%	178,214	1,040	0.6%	9,666	38	0.4%	0.2%	339
(9)	635	Drywall installers, ceiling tile installers, & tapers	166,299	3.4%	85.3%	170,665	594	0.3%	166,299	584	0.4%	4,366	10	0.2%	0.1%	203
(10)	636	Carpet, floor, and tile installers & finishers	162,085	3.3%	88.6%	209,900	2,087	1.0%	162,085	1,650	1.0%	47,815	437	0.9%	0.1%	169
(11)	637	Sheet metal workers	80,730	1.6%	90.3%	150,150	2,267	1.5%	80,730	880	1.1%	69,420	1,387	2.0%	-0.9%	-733
(12)	638	Cement masons, concrete finishers, & terrazo workers	75,804	1.5%	91.8%	79,850	225	0.3%	75,804	225	0.3%	4,046	0	0.0%	0.3%	225
(13)	673	Highway Maintenance Workers	75,700	1.5%	93.3%	84,649	340	0.4%	75,700	310	0.4%	8,949	30	0.3%	0.1%	56
(14)	660	Helpers, construction trades	56,310	1.1%	94.5%	64,620	590	0.9%	56,310	445	0.8%	8,310	145	1.7%	-1.0%	-538

(29)	FOTAL Weighted to Match % of Em				1.0%			1.2%	-0.2%	-9,994					
(28)	TOTAL	4,909,268	100.0%	100.0%	5,933,978	62,015	1.0%	4,909,268	47,237	1.0%	1,024,710	14,778	1.4%		
(27)	675 Septic tank servicers & sewer pipe cleaners	1,244	0.0%	100.0%	7,620	39	0.5%	1,244	15	1.2%	6,376	24	0.4%	0.8%	10
(26)	Hazardous materials removal workers	2,804	0.1%	100.0%	19,110	319	1.7%	2,804	4	0.1%	16,306	315	1.9%	-1.8%	-50
(25)	621 Boilermakers	5,774	0.1%	99.9%	18,385	188	1.0%	5,774	25	0.4%	12,611	163	1.3%	-0.9%	-50
(24)	530 Paving, surfacing, & tamping equipment operators	12,874	0.3%	99.8%	13,505	45	0.3%	12,874	35	0.3%	631	10	1.6%	-1.3%	-169
(23)	678 Paperhangers	14,611	0.3%	99.5%	16,500	216	1.3%	14,611	158	1.1%	1,889	58	3.1%	-2.0%	-291
(22)	677 Glaziers	17,163	0.3%	99.2%	42,564	575	1.4%	17,163	255	1.5%	25,401	320	1.3%	0.2%	39
(21)	676 Misc. construction & related workers	18,814	0.4%	98.9%	29,850	314	1.1%	18,814	109	0.6%	11,036	205	1.9%	-1.3%	-240
` '	671 Fence erectors	21,724	0.4%	98.5%	26,515	133	0.5%	21,724	95	0.4%	4,791	38	0.8%	-0.4%	-77
(19)	670 Elevator Installers & repairers	22,528	0.5%	98.1%	25,790	403	1.6%	22,528	324	1.4%	3,262	79	2.4%	-1.0%	-222
(18)	666 Construction & building inspectors	25,050	0.5%	97.6%	75,465	1,469	1.9%	25,050	490	2.0%	50,415	979	1.9%	0.0%	4
(17)	640 Insulation workers	33,540	0.7%	97.1%	37,705	220	0.6%	33,540	195	0.6%	4,165	25	0.6%	0.0%	-6
(16)	646 Plasterers & stucco masons	38,408	0.8%	96.4%	39,180	218	0.6%	38,408	210	0.5%	772	8	1.0%	-0.5%	-188
(15)	561 Structural iron and steel workers	56,183	1.1%	95.6%	74,290	616	0.8%	56,183	440	0.8%	18,107	176	1.0%	-0.2%	-106

Note: Asians = Asians Alone + Asians/Whites

Occupations w/Shortfall: 18 Occupations with Shortfall / 27 Occupations: 66.7%

Appendix Table A.4 American Indian/Alaska Native and Native Hawaiian/Other Pacific Islander Construction Trade Workers in the Construction Industry and Other Industries, 2000 Census EEO Special Tabulation

	(a)	(b)	(C)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)
		Occupation	the C	oloyment in Construction ndustry			All Industries		C	onstructior Industry	1		Industries Other than onstructio		% Minority in Construction Industry - % Minority	Shortfall in Minority Workers in Construction Industry Compared to
			Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Minority Workers	Minority %	Total Workers	Minority Workers	Minority %	Total Workers	Minority Workers	Minority %	in Other Industries	their Representation in Other Industries
(1)	676	Carpenters	1,147,954	23.4%	23.4%	1,304,505	22,621	1.7%	1,147,954	19,124	1.7%	156,551	3,497	2.2%	-0.6%	-6,519
(2)	677	Construction laborers	1,005,274	20.5%	43.9%	1,067,920	16,949	1.6%	1,005,274	15,489	1.5%	62,646	1,460	2.3%	-0.8%	-7,939
(3)	635	Electricians	442,645	9.0%	52.9%	681,315	9,453	1.4%	442,645	6,135	1.4%	238,670	3,318	1.4%	0.0%	-19
(4)	642	Painters, construction & maintenance	430,559	8.8%	61.6%	495,320	6,721	1.4%	430,559	5,590	1.3%	64,761	1,131	1.7%	-0.4%	-1,929
(5)	643	Pipelayers, plumbers, pipefitters, & steamfitters	383,299	7.8%	69.5%	509,440	7,434	1.5%	383,299	5,424	1.4%	126,141	2,010	1.6%	-0.2%	-684
(6)	632	Misc. construction equipment operators	249,414	5.1%	74.5%	311,760	7,125	2.3%	249,414	5,525	2.2%	62,346	1,600	2.6%	-0.4%	-876
(7)	633	Roofers	184,264	3.8%	78.3%	189,525	4,172	2.2%	184,264	4,060	2.2%	5,261	112	2.1%	0.1%	137
(8)	634	Brickmasons, blockmasons, & stonemasons	178,214	3.6%	81.9%	187,880	2,906	1.5%	178,214	2,779	1.6%	9,666	127	1.3%	0.2%	437
(9)	635	Drywall installers, ceiling tile installers, & tapers	166,299	3.4%	85.3%	170,665	4,155	2.4%	166,299	4,040	2.4%	4,366	115	2.6%	-0.2%	-340
(10)	636	Carpet, floor, and tile installers & finishers	162,085	3.3%	88.6%	209,900	2,843	1.4%	162,085	2,000	1.2%	47,815	843	1.8%	-0.5%	-858
(11)	637	Sheet metal workers	80,730	1.6%	90.3%	150,150	2,118	1.4%	80,730	1,185	1.5%	69,420	933	1.3%	0.1%	100
(12)	638	Cement masons, concrete finishers, & terrazo workers	75,804	1.5%	91.8%	79,850	1,696	2.1%	75,804	1,594	2.1%	4,046	102	2.5%	-0.4%	-317
(13)	673	Highway Maintenance Workers	75,700	1.5%	93.3%	84,649	1,732	2.0%	75,700	1,450	1.9%	8,949	282	3.2%	-1.2%	-935
(14)	660	Helpers, construction trades	56,310	1.1%	94.5%	64,620	953	1.5%	56,310	800	1.4%	8,310	153	1.8%	-0.4%	-237

(29) TOTAL Weighted to Match % of Employees in Construction [Column (d)]									1.6%			2.0%	-0.4%	-20,082
(28) TOTAL	4,909,268	100.0%	100.0%	5,945,468	98,280	1.7%	4,909,268	80,065	1.6%	1,036,200	18,215	1.8%		
(27) 675 Septic tank servicers & sewer pipe cleaners	1,244	0.0%	100.0%	19,110	100	0.5%	1,244	14	1.1%	17,866	86	0.5%	0.6%	8
(26) 672 Hazardous materials removal workers	2,804	0.1%	100.0%	19,110	409	2.1%	2,804	43	1.5%	16,306	366	2.2%	-0.7%	-20
(25) 621 Boilermakers	5,774	0.1%	99.9%	18,385	407	2.2%	5,774	115	2.0%	12,611	292	2.3%	-0.3%	-19
(24) 630 Paving, surfacing, & tamping equipment operators	12,874	0.3%	99.8%	13,505	182	1.3%	12,874	164	1.3%	631	18	2.9%	-1.6%	-203
(23) 678 Paperhangers	14,611	0.3%	99.5%	16,500	190	1.2%	14,611	164	1.1%	1,889	26	1.4%	-0.3%	-37
(22) 677 Glaziers	17,163	0.3%	99.2%	42,564	749	1.8%	17,163	304	1.8%	25,401	445	1.8%	0.0%	3
(21) 676 Misc. construction & related workers	18,814	0.4%	98.9%	29,850	478	1.6%	18,814	335	1.8%	11,036	143	1.3%	0.5%	91
(20) 671 Fence erectors	21,724	0.4%	98.5%	26,515	534	2.0%	21,724	414	1.9%	4,791	120	2.5%	-0.6%	-130
(19) 670 Elevator Installers & repairers	22,528	0.5%	98.1%	25,790	264	1.0%	22,528	254	1.1%	3,262	10	0.3%	0.8%	185
(18) 666 Construction & building inspectors	25,050	0.5%	97.6%	75,465	1,055	1.4%	25,050	460	1.8%	50,415	595	1.2%	0.7%	164
(17) 640 Insulation workers	33,540	0.7%	97.1%	37,705	558	1.5%	33,540	480	1.4%	4,165	78	1.9%	-0.4%	-148
(16) 646 Plasterers & stucco masons	38,408	0.8%	96.4%	39,180	516	1.3%	38,408	494	1.3%	772	22	2.8%	-1.6%	-601
(15) 661 Structural iron and steel workers	56,183	1.1%	95.6%	74,290	1,960	2.6%	56,183	1,629	2.9%	18,107	331	1.8%	1.1%	602

Note: Minority = Am.Indian/Alaska Native Alone + Native Hawaiian/Pacific Islander Alone + American Indian/White + American Indian/African American

 Occupations w/Shortfall:
 20

 Occupations with Shortfall / 27 Occupations:
 74.1%

Appendix Table A.5 Persons with More than Two Races or Other Races in On-Site Construction Occupations in the Construction Industry and Other Industries, 2000 Census EEO Special Tabulation

	(a) (b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
	Occupation	Employment in the Construction Industry			All Industries			Construction Industry			Industries Other than Construction			% Minority in Construction Industry - % Minority	Shortfall in Minority Workers in Construction Industry Compared to
	2002 Census Occupation Title	Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Minority Workers	Minority %	Total Workers	Minority Workers	Minority %	Total Workers	Minority Workers	Minority %	in	their Representation in Other Industries
(1)	676 Carpenters	1,147,954	23.4%	23.4%	1,304,505	10,255	0.8%	1,147,954	8,760	0.8%	156,551	1,495	1.0%	-0.2%	-2,203
(2)	677 Construction laborers	1,005,274	20.5%	43.9%	1,067,920	9,073	0.8%	1,005,274	8,620	0.9%	62,646	453	0.7%	0.1%	1,351
(3)	635 Electricians	442,645	9.0%	52.9%	681,315	4,750	0.7%	442,645	3,110	0.7%	238,670	1,640	0.7%	0.0%	68
(4)	642 Painters, construction & maintenance	430,559	8.8%	61.6%	495,320	5,740	1.2%	430,559	5,080	1.2%	64,761	660	1.0%	0.2%	692
(5)	643 Pipelayers, plumbers, pipefitters, & steamfitters	383,299	7.8%	69.5%	509,440	3,450	0.7%	383,299	2,695	0.7%	126,141	755	0.6%	0.1%	401
(6)	632 Misc. construction equipment operators	249,414	5.1%	74.5%	311,760	1,573	0.5%	249,414	1,215	0.5%	62,346	358	0.6%	-0.1%	-217
(7)	633 Roofers	184,264	3.8%	78.3%	189,525	1,804	1.0%	184,264	1,780	1.0%	5,261	24	0.5%	0.5%	939
(8)	634 Brickmasons, blockmasons, & stonemasons	178,214	3.6%	81.9%	187,880	1,459	0.8%	178,214	1,370	0.8%	9,666	89	0.9%	-0.2%	-271
(9)	635 Drywall installers, ceiling tile installers, & tapers	166,299	3.4%	85.3%	170,665	1,154	0.7%	166,299	1,085	0.7%	4,366	69	1.6%	-0.9%	-1,543
(10)	636 Carpet, floor, and tile installers & finishers	162,085	3.3%	88.6%	209,900	1,877	0.9%	162,085	1,295	0.8%	47,815	582	1.2%	-0.4%	-678
(11)	637 Sheet metal workers	80,730	1.6%	90.3%	150,150	861	0.6%	80,730	415	0.5%	69,420	446	0.6%	-0.1%	-104
(12)	638 Cement masons, concrete finishers, & terrazo workers	75,804	1.5%	91.8%	79,850	450	0.6%	75,804	440	0.6%	4,046	10	0.2%	0.3%	253
(13)	673 Highway Maintenance Workers	75,700	1.5%	93.3%	84,649	383	0.5%	75,700	325	0.4%	8,949	58	0.6%	-0.2%	-166
(14)	660 Helpers, construction trades	56,310	1.1%	94.5%	64,620	500	0.8%	56,310	375	0.7%	8,310	125	1.5%	-0.8%	-472

(15)	661 Structural iron and steel workers	56,183	1.1%	95.6%	74,290	568	0.8%	56,183	394	0.7%	18,107	174	1.0%	-0.3%	-146
(16)	646 Plasterers & stucco masons	38,408	0.8%	96.4%	39,180	398	1.0%	38,408	369	1.0%	772	29	3.8%	-2.8%	-1,074
(17)	640 Insulation workers	33,540	0.7%	97.1%	37,705	195	0.5%	33,540	175	0.5%	4,165	20	0.5%	0.0%	14
(18)	666 Construction & building inspectors	25,050	0.5%	97.6%	75,465	459	0.6%	25,050	195	0.8%	50,415	264	0.5%	0.3%	64
(19)	670 Elevator Installers & repairers	22,528	0.5%	98.1%	25,790	229	0.9%	22,528	190	0.8%	3,262	39	1.2%	-0.4%	-79
(20)	671 Fence erectors	21,724	0.4%	98.5%	26,515	221	0.8%	21,724	185	0.9%	4,791	36	0.8%	0.1%	22
(21)	676 Misc. construction & related workers	18,814	0.4%	98.9%	29,850	326	1.1%	18,814	275	1.5%	11,036	51	0.5%	1.0%	188
(22)	677 Glaziers	17,163	0.3%	99.2%	42,564	437	1.0%	17,163	169	1.0%	25,401	268	1.1%	-0.1%	-12
(23)	678 Paperhangers	14,611	0.3%	99.5%	16,500	79	0.5%	14,611	65	0.4%	1,889	14	0.7%	-0.3%	-43
(24)	630 Paving, surfacing, & tamping equipment operators	12,874	0.3%	99.8%	13,505	109	0.8%	12,874	90	0.7%	631	19	3.0%	-2.3%	-298
(25)	621 Boilermakers	5,774	0.1%	99.9%	18,385	69	0.4%	5,774	10	0.2%	12,611	59	0.5%	-0.3%	-17
(26)	672 Hazardous materials removal workers	2,804	0.1%	100.0%	19,110	291	1.5%	2,804	49	1.7%	16,306	242	1.5%	0.3%	7
(27)	675 Septic tank servicers & sewer pipe cleaners	1,244	0.0%	100.0%	7,620	74	1.0%	1,244	10	0.8%	6,376	64	1.0%	-0.2%	-2
(28)	TOTAL	4,909,268	100.0%	100.0%	5,933,978	46,784	0.8%	4,909,268	38,741	0.8%	1,024,710	8,043	0.8%		
(29)	TOTAL Weighted to Match % of En	ployees in Co	nstruction	[Column	(d)]					0.8%			0.9%	-0.1%	-3,325

Note: Minority = Two Plus Races or Other Races

Occupations w/Shortfall: 17 Occupations with Shortfall / 27 Occupations: 63.0%

Appendix Table A.6 White Non-Hispanics in On-Site Construction Occupations in the Construction Industry and Other Industries, 2000 Census EEO Special Tabulation

	(a) (b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
	Occupation	the C	oloyment i Constructi Industry			All Industries		-	onstruction Industry		0	ndustries ther than nstruction		% Wh. Non- Hisp. in Construction Industry - % Wh. Non-	Shortfall in Wh. Non-Hisp. Workers in Construction Industry Compared to
		Total Workers	% of Total Workers	Cumu- lative %	Total Workers	White non-Hispanic Workers	White non- Hisp. %	Total Workers	White non- Hispanic Workers	White non- Hisp. %	Total Workers	White non- Hispanic Workers	White non- Hisp. %	Hisp. in Other Industries	their Representation in Other Industries
(1)	676 Carpenters	1,147,954	23.4%	23.4%	1,304,505	1,005,851	77.1%	1,147,954	892,935	77.8%	156,551	112,916	72.1%	5.7%	64,947
(2)	677 Construction laborers	1,005,274	20.5%	43.9%	1,067,920	624,480	58.5%	1,005,274	585,575	58.3%	62,646	38,905	62.1%	-3.9%	-38,730
(3)	635 Electricians	442,645	9.0%	52.9%	681,315	559,634	82.1%	442,645	364,595	82.4%	238,670	195,039	81.7%	0.6%	2,869
(4)	642 Painters, construction & maintenance	430,559	8.8%	61.6%	495,320	317,508	64.1%	430,559	277,580	64.5%	64,761	39,928	61.7%	2.8%	12,121
(5)	643 Pipelayers, plumbers, pipefitters, & steamfitters	383,299	7.8%	69.5%	509,440	402,065	78.9%	383,299	304,060	79.3%	126,141	98,005	77.7%	1.6%	6,257
(6)	632 Misc. construction equipment operators	249,414	5.1%	74.5%	311,760	254,388	81.6%	249,414	204,305	81.9%	62,346	50,083	80.3%	1.6%	3,949
(7)	633 Roofers	184,264	3.8%	78.3%	189,525	115,689	61.0%	184,264	112,390	61.0%	5,261	3,299	62.7%	-1.7%	-3,156
(8)	634 Brickmasons, blockmasons, & stonemasons	178,214	3.6%	81.9%	187,880	124,963	66.5%	178,214	118,030	66.2%	9,666	6,933	71.7%	-5.5%	-9,795
(9)	635 Drywall installers, ceiling tile installers, & tapers	166,299	3.4%	85.3%	170,665	106,387	62.3%	166,299	103,675	62.3%	4,366	2,712	62.1%	0.2%	376
(10)	636 Carpet, floor, and tile installers & finishers	162,085	3.3%	88.6%	209,900	146,907	70.0%	162,085	116,640	72.0%	47,815	30,267	63.3%	8.7%	14,040
(11)	637 Sheet metal workers	80,730	1.6%	90.3%	150,150	122,850	81.8%	80,730	67,865	84.1%	69,420	54,985	79.2%	4.9%	3,922
(12)	638 Cement masons, concrete finishers, & terrazo workers	75,804	1.5%	91.8%	79,850	43,306	54.2%	75,804	40,970	54.0%	4,046	2,336	57.7%	-3.7%	-2,796
(13)	673 Highway Maintenance Workers	75,700	1.5%	93.3%	84,649	68,369	80.8%	75,700	58,765	77.6%	8,949	9,604	107.3%	-29.7%	-22,476
(14)	660 Helpers, construction trades	56,310	1.1%	94.5%	64,620	37,322	57.8%	56,310	32,705	58.1%	8,310	4,617	55.6%	2.5%	1,419

(15)	661 Structural iron and steel workers	56,183	1.1%	95.6%	74,290	58,870	79.2%	56,183	44,515	79.2%	18,107	14,355	79.3%	0.0%	-26
(16)	646 Plasterers & stucco masons	38,408	0.8%	96.4%	39,180	19,220	49.1%	38,408	18,555	48.3%	772	665	86.1%	-37.8%	-14,530
(17)	640 Insulation workers	33,540	0.7%	97.1%	37,705	25,091	66.5%	33,540	22,435	66.9%	4,165	2,656	63.8%	3.1%	1,047
(18)	666 Construction & building inspectors	25,050	0.5%	97.6%	75,465	61,960	82.1%	25,050	20,455	81.7%	50,415	41,505	82.3%	-0.7%	-168
(19)	670 Elevator Installers & repairers	22,528	0.5%	98.1%	25,790	21,663	84.0%	22,528	19,395	86.1%	3,262	2,268	69.5%	16.6%	3,732
(20)	671 Fence erectors	21,724	0.4%	98.5%	26,515	18,055	68.1%	21,724	14,710	67.7%	4,791	3,345	69.8%	-2.1%	-457
(21)	676 Misc. construction & related workers	18,814	0.4%	98.9%	29,850	20,861	69.9%	18,814	12,780	67.9%	11,036	8,081	73.2%	-5.3%	-996
(22)	677 Glaziers	17,163	0.3%	99.2%	42,564	35,578	83.6%	17,163	13,975	81.4%	25,401	21,603	85.0%	-3.6%	-622
(23)	678 Paperhangers	14,611	0.3%	99.5%	16,500	14,536	88.1%	14,611	13,130	89.9%	1,889	1,406	74.4%	15.4%	2,255
(24)	630 Paving, surfacing, & tamping equipment operators	12,874	0.3%	99.8%	13,505	8,994	66.6%	12,874	8,570	66.6%	631	424	67.2%	-0.6%	-81
(25)	621 Boilermakers	5,774	0.1%	99.9%	18,385	14,582	79.3%	5,774	5,040	87.3%	12,611	9,542	75.7%	11.6%	671
(26)	672 Hazardous materials removal workers	2,804	0.1%	100.0%	19,110	10,704	56.0%	2,804	1,305	46.5%	16,306	9,399	57.6%	-11.1%	-311
(27)	675 Septic tank servicers & sewer pipe cleaners	1,244	0.0%	100.0%	7,620	6,080	79.8%	1,244	905	72.7%	6,376	5,175	81.2%	-8.4%	-105
(28)	TOTAL	4,909,268	100.0%	100.0%	5,933,978	4,245,913	71.6%	4,909,268	3,475,860	70.8%	1,024,710	770,053	75.1%		
(29)	TOTAL Weighted to Match % of Er	nployees in	Construc	tion [Col	umn (d)]					70.8%			70.3%	0.5%	23,357

Note: Hispanics = White Hispanic + All Other Hispanics

Occupations w/Shortfall: 14 Occupations with Shortfall / 27 Occupations: 51.9%

Appendix Table A.7 Hispanics in On-Site Construction Occupations in the Construction Industry and Other Industries, 2000 Census EEO Special Tabulation

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
		Occupation	the C	oloyment i construction ndustry		Ir	All adustries			nstruction ndustry		0	ndustries other than onstruction		% Hispanic in Construction Industry - % Hispanic	Shortfall in Hispanic Workers in Construction Industry Compared to
			Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Hispanic Workers	Hispanic %	Total Workers	Hispanic Workers	Hispanic %	Total Workers	Hispanic Workers	Hispanic %	in Other Industries	their Representation in Other Industries
(1)	676	6 Carpenters	1,147,954	23.4%	23.4%	1,304,505	195,342	15.0%	1,147,954	169,640	14.8%	156,551	25,702	16.4%	-1.6%	-18,827
(2)	677	Construction laborers	1,005,274	20.5%	43.9%	1,067,920	312,071	29.2%	1,005,274	299,675	29.8%	62,646	12,396	19.8%	10.0%	100,758
(3)	635	5 Electricians	442,645	9.0%	52.9%	681,315	57,585	8.5%	442,645	40,010	9.0%	238,670	17,575	7.4%	1.7%	7,415
(4)	642	Painters, construction & maintenance	430,559	8.8%	61.6%	495,320	123,913	25.0%	430,559	110,180	25.6%	64,761	13,733	21.2%	4.4%	18,877
(5)	643	Pipelayers, plumbers, pipefitters, & steamfitters	383,299	7.8%	69.5%	509,440	58,826	11.5%	383,299	46,440	12.1%	126,141	12,386	9.8%	2.3%	8,803
(6)	632	Misc. construction equipment operators	249,414	5.1%	74.5%	311,760	28,288	9.1%	249,414	23,415	9.4%	62,346	4,873	7.8%	1.6%	3,921
(7)	633	B Roofers	184,264	3.8%	78.3%	189,525	53,733	28.4%	184,264	52,725	28.6%	5,261	1,008	19.2%	9.5%	17,420
(8)	634	Brickmasons, blockmasons, & stonemasons	178,214	3.6%	81.9%	187,880	35,835	19.1%	178,214	34,675	19.5%	9,666	1,160	12.0%	7.5%	13,288
(9)	635	Drywall installers, ceiling tile installers, & tapers	166,299	3.4%	85.3%	170,665	50,650	29.7%	166,299	49,755	29.9%	4,366	895	20.5%	9.4%	15,665
(10)	636	Carpet, floor, and tile installers & finishers	162,085	3.3%	88.6%	209,900	46,182	22.0%	162,085	33,350	20.6%	47,815	12,832	26.8%	-6.3%	-10,148
(11)	637	' Sheet metal workers	80,730	1.6%	90.3%	150,150	14,127	9.4%	80,730	7,015	8.7%	69,420	7,112	10.2%	-1.6%	-1,256
(12)	638	Cement masons, concrete finishers, & terrazo workers	75,804	1.5%	91.8%	79,850	22,636	28.3%	75,804	21,785	28.7%	4,046	851	21.0%	7.7%	5,841
(13)	673	B Highway Maintenance Workers	75,700	1.5%	93.3%	84,649	8,165	9.6%	75,700	7,145	9.4%	8,949	1,020	11.4%	-2.0%	-1,483
(14)	660	Helpers, construction trades	56,310	1.1%	94.5%	64,620	19,125	29.6%	56,310	16,825	29.9%	8,310	2,300	27.7%	2.2%	1,240

(15)	661 Structural iron and steel workers	56,183	1.1%	95.6%	74,290	8,130	10.9%	56,183	6,130	10.9%	18,107	2,000	11.0%	-0.1%	-76
(16)	646 Plasterers & stucco masons	38,408	0.8%	96.4%	39,180	15,388	39.3%	38,408	15,200	39.6%	772	188	24.4%	15.2%	5,847
(17)	640 Insulation workers	33,540	0.7%	97.1%	37,705	8,546	22.7%	33,540	7,775	23.2%	4,165	771	18.5%	4.7%	1,566
(18)	666 Construction & building inspectors	25,050	0.5%	97.6%	75,465	4,758	6.3%	25,050	1,780	7.1%	50,415	2,978	5.9%	1.2%	300
(19)	670 Elevator Installers & repairers	22,528	0.5%	98.1%	25,790	2,107	8.2%	22,528	1,650	7.3%	3,262	457	14.0%	-6.7%	-1,506
(20)	671 Fence erectors	21,724	0.4%	98.5%	26,515	5,884	22.2%	21,724	5,040	23.2%	4,791	844	17.6%	5.6%	1,213
(21)	676 Misc. construction & related workers	18,814	0.4%	98.9%	29,850	5,413	18.1%	18,814	3,765	20.0%	11,036	1,648	14.9%	5.1%	956
(22)	677 Glaziers	17,163	0.3%	99.2%	42,564	5,030	11.8%	17,163	1,800	10.5%	25,401	3,230	12.7%	-2.2%	-382
(23)	678 Paperhangers	14,611	0.3%	99.5%	16,500	1,159	7.0%	14,611	950	6.5%	1,889	209	11.1%	-4.6%	-667
(24)	630 Paving, surfacing, & tamping equipment operators	12,874	0.3%	99.8%	13,505	2,366	17.5%	12,874	2,285	17.7%	631	81	12.8%	4.9%	632
(25)	621 Boilermakers	5,774	0.1%	99.9%	18,385	1,510	8.2%	5,774	269	4.7%	12,611	1,241	9.8%	-5.2%	-299
(26)	672 Hazardous materials removal workers	2,804	0.1%	100.0%	19,110	5,359	28.0%	2,804	1,029	36.7%	16,306	4,330	26.6%	10.1%	284
(27)	675 Septic tank servicers & sewer pipe cleaners	1,244	0.0%	100.0%	7,620	601	7.9%	1,244	140	11.3%	6,376	461	7.2%	4.0%	50
(28)	TOTAL	4,909,268	100.0%	100.0%	5,933,978	1,092,729	18.4%	4,909,268	960,448	19.6%	1,024,710	132,281	12.9%		
(29)	TOTAL Weighted to Match % of Er	nployees in	Construc	tion [Col	umn (d)]					19.6%			16.1%	3.5%	169,432

Note: Hispanics = White Hispanic + All Other Hispanics

Occupations w/Shortfall: 9 Occupations with Shortfall / 27 Occupations: 33.3%

APPENDIX B

Appendix Table B.1 Women in On-site Construction Occupations in the Construction Industry and Other Industries, 2006-2008 Census American Community Survey

1	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
			Total	Employm	ent				Utilizati	ion of Wor	nen				Under-Utiliza	tion of Women
		Occupation		in the Instruction	1	Ir	All ndustries			nstruction ndustry	I	c	ndustries Other than onstructior	ı	Female % in Construction Industry -	Shortfall in Women in
			Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Female Workers	Female %	Total Workers	Female Workers	Female %	Total Workers	Female Workers	Female %	Female % in Other	Construction Industry
(1)	6260	Construction Laborers	2,285,323	26.8%	26.8%	2,404,650	88,856	3.7%	2,285,323	81,668	3.6%	119,327	7,188	6.0%	-2.5%	-55,995
(2)	6230	Carpenters	1,809,344	21.2%	48.0%	2,017,399	39,444	2.0%	1,809,344	30,435	1.7%	208,055	9,009	4.3%	-2.6%	-47,911
(3)	6420	Painters, Construction & Maintenance	764,618	9.0%	57.0%	857,509	72,287	8.4%	764,618	61,450	8.0%	92,891	10,837	11.7%	-3.6%	-27,753
(4)	6350	Electricians	690,383	8.1%	65.1%	968,180	23,823	2.5%	690,383	12,333	1.8%	277,797	11,490	4.1%	-2.3%	-16,222
(5)	6440	Pipelayers, Plumbers, Pipefitters & Steamfitters	580,426	6.8%	71.9%	739,593	12,944	1.8%	580,426	8,906	1.5%	159,167	4,038	2.5%	-1.0%	-5,819
(6)	6320	Construction Equipment Operators, except Paving	417,694	4.9%	76.8%	517,416	12,786	2.5%	417,694	8,796	2.1%	99,722	3,990	4.0%	-1.9%	-7,916
(7)	6510	Roofers	315,096	3.7%	80.5%	322,054	5,001	1.6%	315,096	4,767	1.5%	6,958	234	3.4%	-1.9%	-5,830
(8)	6220	Brickmasons, Blockmasons & Stonemasons	275,634	3.2%	83.7%	287,724	2,985	1.0%	275,634	2,675	1.0%	12,090	310	2.6%	-1.6%	-4,393
(9)	6330	Drywall Installers, Ceiling Tile Installers & Tapers	264,370	3.1%	86.8%	269,496	7,601	2.8%	264,370	7,313	2.8%	5,126	288	5.6%	-2.9%	-7,540
(10)	6240	Carpet, Floor & Tile Installers & Finishers	253,368	3.0%	89.8%	299,286	8,349	2.8%	253,368	6,502	2.6%	45,918	1,847	4.0%	-1.5%	-3,689
(11)	6600	Helpers, Construction Trades	130,210	1.5%	91.3%	141,276	7,001	5.0%	130,210	6,003	4.6%	11,066	998	9.0%	-4.4%	-5,740
(12)	6250	Cement Masons, Concrete Finishers & Terrazzo Workers	120,308	1.4%	92.7%	125,137	1,232	1.0%	120,308	1,197	1.0%	4,829	35	0.7%	0.3%	325
(13)	6730	Highway Maintenance Workers	111,078	1.3%	94.0%	123,524	4,457	3.6%	111,078	3,836	3.5%	12,446	621	5.0%	-1.5%	-1,706

(29)	ΤΟΤΑ	- Weighted to Match % of Emp	loyees in Co	onstruction	n [Colum n	(d)]					3.0%			5.4%	-2.5%	-210,611
(28)	ΤΟΤΑ	-	8,529,387	100.0%	100.0%	9,899,932	331,600	3.3%	8,529,387	253,678	3.0%	1,370,545	77,922	5.7%		
(27)	6720	Hazardous Materials Removal Workers	5,171	0.1%	100.0%	38,701	6,288	16.2%	5,171	630	12.2%	33,530	5,658	16.9%	-4.7%	-243
(26)	6210	Boilermakers	11,457	0.1%	99.9%	25,989	381	1.5%	11,457	170	1.5%	14,532	211	1.5%	0.0%	4
(25)	6500	Reinforcing Iron & Rebar Workers	11,847	0.1%	99.8%	13,626	235	1.7%	11,847	195	1.6%	1,779	40	2.2%	-0.6%	-71
(24)	6430	Paperhangers	11,418	0.1%	99.7%	13,023	3,508	26.9%	11,418	3,211	28.1%	1,605	297	18.5%	9.6%	1,098
(23)	6700	Elevator Installers & Repairers	26,031	0.3%	99.5%	32,710	665	2.0%	26,031	398	1.5%	6,679	267	4.0%	-2.5%	-643
(22)	6300	Paving, Surfacing & Tamping Equipment Operators	27,137	0.3%	99.2%	27,786	855	3.1%	27,137	697	2.6%	649	158	24.3%	-21.8%	-5,910
(21)	6360	Glaziers	36,108	0.4%	98.9%	56,872	1,045	1.8%	36,108	480	1.3%	20,764	565	2.7%	-1.4%	-503
(20)	6710	Fence Erectors	38,308	0.4%	98.5%	44,778	1,401	3.1%	38,308	1,107	2.9%	6,470	294	4.5%	-1.7%	-634
(19)	6760	Miscellaneous Construction Workers, Including Septic	37,813	0.4%	98.0%	66,448	2,720	4.1%	37,813	1,303	3.4%	28,635	1,417	4.9%	-1.5%	-568
(18)	6660	Construction & Building Inspectors	40,259	0.5%	97.6%	127,734	14,539	11.4%	40,259	3,434	8.5%	87,475	11,105	12.7%	-4.2%	-1,677
(17)	6400	Insulation Workers	51,329	0.6%	97.1%	57,213	2,435	4.3%	51,329	1,951	3.8%	5,884	484	8.2%	-4.4%	-2,271
(16)	6460	Plasterers & Stucco Masons	60,155	0.7%	96.5%	61,283	1,014	1.7%	60,155	924	1.5%	1,128	90	8.0%	-6.4%	-3,876
(15)	6530	Structural Iron & Steel Workers	67,184	0.8%	95.8%	89,219	1,845	2.1%	67,184	990	1.5%	22,035	855	3.9%	-2.4%	-1,617
(14)	6520	Sheet Metal Workers	87,318	1.0%	95.0%	171,306	7,903	4.6%	87,318	2,307	2.6%	83,988	5,596	6.7%	-4.0%	-3,511

Occupations w/Shortfall:	24
Occupations with Shortfall / 27 Occupations:	88.9%

Appendix Table B.2 African American Construction Trade Workers in the Construction Industry and Other Industries, 2006-2008 Census American Community Survey

i	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
		Occupation	the C	ployment i Constructio Industry		In	All dustries			nstruction ndustry		C	ndustries other than nstruction	I	% Black in Construction Industry - % Black	Shortfall in Black Workers in Construction Industry Compared to their
			Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Black Workers	Black %	Total Workers	Black Workers	Black %	Total Workers	Black Workers	Black %	in Other Industries	Representation in Other Industries
(1)	6260	Construction Laborers	2,285,323	26.8%	26.8%	2,404,650	237,893	9.9%	2,285,323	217,886	9.5%	119,327	20,007	16.8%	-7.2%	-165,283
(2)	6230	Carpenters	1,809,344	21.2%	48.0%	2,017,399	112,029	5.6%	1,809,344	96,485	5.3%	208,055	15,544	7.5%	-2.1%	-38,693
(3)	6420	Painters, Construction & Maintenance	764,618	9.0%	57.0%	857,509	67,116	7.8%	764,618	53,796	7.0%	92,891	13,320	14.3%	-7.3%	-55,846
(4)	6350	Electricians	690,383	8.1%	65.1%	968,180	73,599	7.6%	690,383	47,379	6.9%	277,797	26,220	9.4%	-2.6%	-17,783
(5)	6440	Pipelayers, Plumbers, Pipefitters & Steamfitters	580,426	6.8%	71.9%	739,593	59,738	8.1%	580,426	41,462	7.1%	159,167	18,276	11.5%	-4.3%	-25,184
(6)	6320	Construction Equipment Operators, except Paving	417,694	4.9%	76.8%	517,416	34,797	6.7%	417,694	25,947	6.2%	99,722	8,850	8.9%	-2.7%	-11,122
(7)	6510	Roofers	315,096	3.7%	80.5%	322,054	27,786	8.6%	315,096	26,716	8.5%	6,958	1,070	15.4%	-6.9%	-21,739
(8)	6220	Brickmasons, Blockmasons & Stonemasons	275,634	3.2%	83.7%	287,724	37,201	12.9%	275,634	35,647	12.9%	12,090	1,554	12.9%	0.1%	218
(9)	6330	Drywall Installers, Ceiling Tile Installers & Tapers	264,370	3.1%	86.8%	269,496	17,759	6.6%	264,370	17,138	6.5%	5,126	621	12.1%	-5.6%	-14,890
(10)	6240	Carpet, Floor & Tile Installers & Finishers	253,368	3.0%	89.8%	299,286	16,417	5.5%	253,368	13,179	5.2%	45,918	3,238	7.1%	-1.9%	-4,688
(11)	6600	Helpers, Construction Trades	130,210	1.5%	91.3%	141,276	15,453	10.9%	130,210	14,040	10.8%	11,066	1,413	12.8%	-2.0%	-2,586
(12)	6250	Cement Masons, Concrete Finishers & Terrazzo Workers	120,308	1.4%	92.7%	125,137	18,269	14.6%	120,308	17,371	14.4%	4,829	898	18.6%	-4.2%	-5,001
(13)	6730	Highway Maintenance Workers	111,078	1.3%	94.0%	123,524	14,983	12.1%	111,078	13,561	12.2%	12,446	1,422	11.4%	0.8%	870

(29) TC	OTAL	- Weighted to Match % of Emp					7.7%			12.3%	-4.5%	-387,721				
(28) TC	OTAL	-	8,529,387	100.0%	100.0%	9,899,932	802,697	8.1%	8,529,387	659,514	7.7%	1,370,545	143,183	10.4%		
(27) 6	720	Hazardous Materials Removal Workers	5,171	0.1%	100.0%	38,701	6,689	17.3%	5,171	623	12.0%	33,530	6,066	18.1%	-6.0%	-312
(26) 6	210	Boilermakers	11,457	0.1%	99.9%	25,989	2,000	7.7%	11,457	843	7.4%	14,532	1,157	8.0%	-0.6%	-69
(25) 6	500	Reinforcing Iron & Rebar Workers	11,847	0.1%	99.8%	13,626	964	7.1%	11,847	728	6.1%	1,779	236	13.3%	-7.1%	-844
(24) 6	430	Paperhangers	11,418	0.1%	99.7%	13,023	504	3.9%	11,418	249	2.2%	1,605	255	15.9%	-13.7%	-1,565
(23) 6	700	Elevator Installers & Repairers	26,031	0.3%	99.5%	32,710	1,950	6.0%	26,031	1,537	5.9%	6,679	413	6.2%	-0.3%	-73
(22) 6	STILL -	Paving, Surfacing & Tamping Equipment Operators	27,137	0.3%	99.2%	27,786	2,903	10.4%	27,137	2,881	10.6%	649	22	3.4%	7.2%	1,961
(21) 6	360	Glaziers	36,108	0.4%	98.9%	56,872	2,921	5.1%	36,108	1,481	4.1%	20,764	1,440	6.9%	-2.8%	-1,023
(20) 6	5710	Fence Erectors	38,308	0.4%	98.5%	44,778	2,713	6.1%	38,308	2,113	5.5%	6,470	600	9.3%	-3.8%	-1,440
(19) 6	760	Miscellaneous Construction Workers, Including Septic	37,813	0.4%	98.0%	66,448	6,979	10.5%	37,813	4,279	11.3%	28,635	2,700	9.4%	1.9%	714
(18) 6	660	Construction & Building Inspectors	40,259	0.5%	97.6%	127,734	10,639	8.3%	40,259	3,211	8.0%	87,475	7,428	8.5%	-0.5%	-208
(17) 6	400	Insulation Workers	51,329	0.6%	97.1%	57,213	5,165	9.0%	51,329	4,219	8.2%	5,884	946	16.1%	-7.9%	-4,033
(16) 6	460	Plasterers & Stucco Masons	60,155	0.7%	96.5%	61,283	6,932	11.3%	60,155	6,530	10.9%	1,128	402	35.6%	-24.8%	-14,908
(15) 6	530	Structural Iron & Steel Workers	67,184	0.8%	95.8%	89,219	6,733	7.5%	67,184	4,264	6.3%	22,035	2,469	11.2%	-4.9%	-3,264
(14) 6	520	Sheet Metal Workers	87,318	1.0%	95.0%	171,306	12,565	7.3%	87,318	5,949	6.8%	83,988	6,616	7.9%	-1.1%	-929

Note: Black equals Black alone and combined with any other race group.

 Occupations w/Shortfall:
 23

 Occupations with Shortfall / 27 Occupations:
 85.2%

Appendix Table B.3 Asian Construction Trade Workers in the Construction Industry and Other Industries, 2006-2008 Census American Community Survey

r	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
		Occupation	the C	ployment i Constructio Industry		Ir	All ndustries			nstruction Industry		C	ndustries Other than onstruction	I	% Asian in Construction Industry - % Asian	Shortfall in Asian Workers in Construction Industry Compared to their
			Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Asian Workers	Asian %	Total Workers	Asian Workers	Asian %	Total Workers	Asian Workers	Asian %	in Other Industries	Representation in Other Industries
(1)	6260	Construction Laborers	2,285,323	26.8%	26.8%	2,404,650	9,115	0.4%	2,285,323	8,521	0.4%	119,327	594	0.5%	-0.1%	-2,855
(2)	6230	Carpenters	1,809,344	21.2%	48.0%	2,017,399	5,775	0.3%	1,809,344	4,903	0.3%	208,055	872	0.4%	-0.1%	-2,680
(3)	6420	Painters, Construction & Maintenance	764,618	9.0%	57.0%	857,509	3,403	0.4%	764,618	2,985	0.4%	92,891	418	0.4%	-0.1%	-456
(4)	6350	Electricians	690,383	8.1%	65.1%	968,180	4,723	0.5%	690,383	2,783	0.4%	277,797	1,940	0.7%	-0.3%	-2,038
(5)	6440	Pipelayers, Plumbers, Pipefitters & Steamfitters	580,426	6.8%	71.9%	739,593	1,861	0.3%	580,426	1,166	0.2%	159,167	695	0.4%	-0.2%	-1,368
(6)	6320	Construction Equipment Operators, except Paving	417,694	4.9%	76.8%	517,416	1,502	0.3%	417,694	1,365	0.3%	99,722	137	0.1%	0.2%	791
(7)	6510	Roofers	315,096	3.7%	80.5%	322,054	860	0.3%	315,096	860	0.3%	6,958	0	0.0%	0.3%	860
(8)	6220	Brickmasons, Blockmasons & Stonemasons	275,634	3.2%	83.7%	287,724	1,051	0.4%	275,634	944	0.3%	12,090	107	0.9%	-0.5%	-1,495
(9)	6330	Drywall Installers, Ceiling Tile Installers & Tapers	264,370	3.1%	86.8%	269,496	659	0.2%	264,370	659	0.2%	5,126	0	0.0%	0.2%	659
(10)	6240	Carpet, Floor & Tile Installers & Finishers	253,368	3.0%	89.8%	299,286	745	0.2%	253,368	666	0.3%	45,918	79	0.2%	0.1%	230
(11)	6600	Helpers, Construction Trades	130,210	1.5%	91.3%	141,276	581	0.4%	130,210	489	0.4%	11,066	92	0.8%	-0.5%	-594
(12)	6250	Cement Masons, Concrete Finishers & Terrazzo Workers	120,308	1.4%	92.7%	125,137	211	0.2%	120,308	211	0.2%	4,829	0	0.0%	0.2%	211
(13)	6730	Highway Maintenance Workers	111,078	1.3%	94.0%	123,524	147	0.1%	111,078	126	0.1%	12,446	21	0.2%	-0.1%	-61

(29)	ΤΟΤΑΙ	- Weighted to Match % of Emp	loyees in Co	onstruction	n [Column	ı (d)]					0.3%			0.4%	-0.1%	-8,226
(28)	ΤΟΤΑΙ	-	8,529,387	100.0%	100.0%	9,899,932	34,216	0.3%	8,529,387	27,832	0.3%	1,370,545	6,308	0.5%		
(27)	6720	Hazardous Materials Removal Workers	5,171	0.1%	100.0%	38,701	193	0.5%	5,171	70	1.4%	33,530	123	0.4%	1.0%	51
(26)	6210	Boilermakers	11,457	0.1%	99.9%	25,989	76	0.0%	11,457	0	0.0%	14,532	0	0.0%	0.0%	0
(25)	6500	Reinforcing Iron & Rebar Workers	11,847	0.1%	99.8%	13,626	0	0.0%	11,847	0	0.0%	1,779	0	0.0%	0.0%	0
(24)	6430	Paperhangers	11,418	0.1%	99.7%	13,023	213	1.6%	11,418	213	1.9%	1,605	0	0.0%	1.9%	213
(23)	6700	Elevator Installers & Repairers	26,031	0.3%	99.5%	32,710	88	0.3%	26,031	40	0.2%	6,679	48	0.7%	-0.6%	-147
(22)	6300	Paving, Surfacing & Tamping Equipment Operators	27,137	0.3%	99.2%	27,786	20	0.0%	27,137	20	0.0%	649	0	0.0%	0.0%	0
(21)	6360	Glaziers	36,108	0.4%	98.9%	56,872	251	0.4%	36,108	169	0.5%	20,764	82	0.4%	0.1%	26
(20)	6710	Fence Erectors	38,308	0.4%	98.5%	44,778	57	0.0%	38,308	57	0.0%	6,470	0	0.0%	0.0%	0
(19)	6760	Miscellaneous Construction Workers, Including Septic	37,813	0.4%	98.0%	66,448	25	0.0%	37,813	25	0.1%	28,635	0	0.0%	0.1%	25
(18)	6660	Construction & Building Inspectors	40,259	0.5%	97.6%	127,734	930	0.7%	40,259	589	1.5%	87,475	341	0.4%	1.1%	432
(17)	6400	Insulation Workers	51,329	0.6%	97.1%	57,213	140	0.2%	51,329	140	0.3%	5,884	0	0.0%	0.3%	140
(16)	6460	Plasterers & Stucco Masons	60,155	0.7%	96.5%	61,283	104	0.2%	60,155	104	0.2%	1,128	0	0.0%	0.2%	104
(15)	6530	Structural Iron & Steel Workers	67,184	0.8%	95.8%	89,219	537	0.6%	67,184	432	0.6%	22,035	105	0.5%	0.2%	112
(14)	6520	Sheet Metal Workers	87,318	1.0%	95.0%	171,306	949	0.6%	87,318	295	0.3%	83,988	654	0.8%	-0.4%	-385

Note: Asian equals Asian alone and combined with any other race group.

Occupations w/Shortfall: 10 Occupations with Shortfall / 27 Occupations: 37.0%

Appendix Table B. 4 American Indian/Alaska Native and Native Hawaiian/Other Pacific Islanders Construction Trade Workers in the Construction Industry and Other Industries, 2006-2008 Census American Community Survey

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
		Occupation	the C	ployment i Constructio Industry		Ir	All ndustries			nstruction ndustry	1	C	ndustries Other than onstruction	I	% Indian in Construction Industry - % Indian	Shortfall in Indian Workers in Construction Industry Compared to their
			Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Indian Workers	Indian %	Total Workers	Indian Workers	Indian %	Total Workers	Indian Workers	Indian %	in Other Industries	Representation in Other Industries
(1)	6260	Construction Laborers	2,285,323	26.8%	26.8%	2,404,650	59,257	2.5%	2,285,323	54,821	2.4%	119,327	4,436	3.7%	-1.3%	-30,136
(2)	6230	Carpenters	1,809,344	21.2%	48.0%	2,017,399	42,767	2.1%	1,809,344	37,624	2.1%	208,055	5,143	2.5%	-0.4%	-7,102
(3)	6420	Painters, Construction & Maintenance	764,618	9.0%	57.0%	857,509	16,031	1.9%	764,618	14,161	1.9%	92,891	1,870	2.0%	-0.2%	-1,232
(4)	6350	Electricians	690,383	8.1%	65.1%	968,180	17,680	1.8%	690,383	12,428	1.8%	277,797	5,252	1.9%	-0.1%	-624
(5)	6440	Pipelayers, Plumbers, Pipefitters & Steamfitters	580,426	6.8%	71.9%	739,593	14,800	2.0%	580,426	10,767	1.9%	159,167	4,033	2.5%	-0.7%	-3,940
(6)	6320	Construction Equipment Operators, except Paving	417,694	4.9%	76.8%	517,416	15,434	3.0%	417,694	11,195	2.7%	99,722	4,239	4.3%	-1.6%	-6,560
(7)	6510	Roofers	315,096	3.7%	80.5%	322,054	7,239	2.2%	315,096	7,034	2.2%	6,958	205	2.9%	-0.7%	-2,250
(8)	6220	Brickmasons, Blockmasons & Stonemasons	275,634	3.2%	83.7%	287,724	7,599	2.6%	275,634	7,273	2.6%	12,090	326	2.7%	-0.1%	-159
(9)	6330	Drywall Installers, Ceiling Tile Installers & Tapers	264,370	3.1%	86.8%	269,496	6,621	2.5%	264,370	6,485	2.5%	5,126	136	2.7%	-0.2%	-529
(10)	6240	Carpet, Floor & Tile Installers & Finishers	253,368	3.0%	89.8%	299,286	5,351	1.8%	253,368	4,375	1.7%	45,918	976	2.1%	-0.4%	-1,010
(11)	6600	Helpers, Construction Trades	130,210	1.5%	91.3%	141,276	3,229	2.3%	130,210	2,948	2.3%	11,066	281	2.5%	-0.3%	-358
(12)	6250	Cement Masons, Concrete Finishers & Terrazzo Workers	120,308	1.4%	92.7%	125,137	3,252	2.6%	120,308	3,197	2.7%	4,829	55	1.1%	1.5%	1,827
(13)	6730	Highway Maintenance Workers	111,078	1.3%	94.0%	123,524	2,679	2.2%	111,078	2,376	2.1%	12,446	303	2.4%	-0.3%	-328

(29)	ΓΟΤΑΙ	- Weighted to Match % of Emp	loyees in Co	onstructio	n [Column	(d)]					2.2%			2.8%	-0.6%	-52,569
(28)	ΓΟΤΑΙ	-	8,529,387	100.0%	100.0%	9,899,932	218,599	2.2%	8,529,387	185,563	2.2%	1,370,545	33,036	2.4%		
(27)	6720	Hazardous Materials Removal Workers	5,171	0.1%	100.0%	38,701	1,245	3.2%	5,171	79	1.5%	33,530	1,166	3.5%	-1.9%	-101
(26)	6210	Boilermakers	11,457	0.1%	99.9%	25,989	706	2.7%	11,457	327	2.9%	14,532	379	2.6%	0.2%	28
(25)	6500	Reinforcing Iron & Rebar Workers	11,847	0.1%	99.8%	13,626	517	3.8%	11,847	481	4.1%	1,779	36	2.0%	2.0%	241
(24)	6430	Paperhangers	11,418	0.1%	99.7%	13,023	86	0.7%	11,418	50	0.4%	1,605	36	2.2%	-1.8%	-206
(23)	6700	Elevator Installers & Repairers	26,031	0.3%	99.5%	32,710	188	0.6%	26,031	88	0.3%	6,679	100	1.5%	-1.2%	-302
(22)	6300	Paving, Surfacing & Tamping Equipment Operators	27,137	0.3%	99.2%	27,786	741	2.7%	27,137	665	2.5%	649	76	11.7%	-9.3%	-2,513
(21)	6360	Glaziers	36,108	0.4%	98.9%	56,872	757	1.3%	36,108	490	1.4%	20,764	267	1.3%	0.1%	26
(20)	6710	Fence Erectors	38,308	0.4%	98.5%	44,778	1,126	2.5%	38,308	937	2.4%	6,470	189	2.9%	-0.5%	-182
(19)	6760	Miscellaneous Construction Workers, Including Septic	37,813	0.4%	98.0%	66,448	1,272	1.9%	37,813	621	1.6%	28,635	651	2.3%	-0.6%	-239
(18)	6660	Construction & Building Inspectors	40,259	0.5%	97.6%	127,734	2,354	1.8%	40,259	1,074	2.7%	87,475	1,280	1.5%	1.2%	485
(17)	6400	Insulation Workers	51,329	0.6%	97.1%	57,213	1,188	2.1%	51,329	1,070	2.1%	5,884	118	2.0%	0.1%	41
(16)	6460	Plasterers & Stucco Masons	60,155	0.7%	96.5%	61,283	725	1.2%	60,155	725	1.2%	1,128	0	0.0%	1.2%	725
(15)	6530	Structural Iron & Steel Workers	67,184	0.8%	95.8%	89,219	3,490	3.9%	67,184	3,042	4.5%	22,035	448	2.0%	2.5%	1,676
(14)	6520	Sheet Metal Workers	87,318	1.0%	95.0%	171,306	2,265	1.3%	87,318	1,230	1.4%	83,988	1,035	1.2%	0.2%	154

Note: Amer. Indians/Alaska Natives and Nat. Haw/Pac Is. equals Amer. Indians/Alaska Natives and Nat. Haw/Pac Is. alone and combined with any other race group.

 Occupations w/Shortfall:
 18

 Occupations with Shortfall / 27 Occupations:
 66.7%

Appendix Table B.5 Construction Trade Workers of More than Two Races or Other Races in the Construction Industry and Other Industries, 2006-2008 Census American Community Survey

i	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
		Occupation	the C	ployment i Constructio Industry		Ir	All ndustries			struction dustry		C	ndustries Other than onstruction		% Minority in Construction Industry - % Minority	Shortfall in Minority Workers in Construction Industry Compared to
			Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Minority Workers	Two Race %	Total Workers	Minority Workers	Two Race %	Total Workers	Minority Workers	Two Race %	in Other Industries	their Representation in Other Industries
(1)	6260	Construction Laborers	2,285,323	26.8%	26.8%	2,404,650	38,360	1.6%	2,285,323	35,643	1.6%	119,327	2,717	2.3%	-0.7%	-16,392
(2)	6230	Carpenters	1,809,344	21.2%	48.0%	2,017,399	28,590	1.4%	1,809,344	25,860	1.4%	208,055	2,730	1.3%	0.1%	2,119
(3)	6420	Painters, Construction & Maintenance	764,618	9.0%	57.0%	857,509	14,055	1.6%	764,618	12,379	1.6%	92,891	1,676	1.8%	-0.2%	-1,417
(4)	6350	Electricians	690,383	8.1%	65.1%	968,180	13,613	1.4%	690,383	9,931	1.4%	277,797	3,682	1.3%	0.1%	780
(5)	6440	Pipelayers, Plumbers, Pipefitters & Steamfitters	580,426	6.8%	71.9%	739,593	10,776	1.5%	580,426	8,898	1.5%	159,167	1,878	1.2%	0.4%	2,050
(6)	6320	Construction Equipment Operators, except Paving	417,694	4.9%	76.8%	517,416	8,620	1.7%	417,694	7,553	1.8%	99,722	1,067	1.1%	0.7%	3,084
(7)	6510	Roofers	315,096	3.7%	80.5%	322,054	6,087	1.9%	315,096	5,904	1.9%	6,958	183	2.6%	-0.8%	-2,383
(8)	6220	Brickmasons, Blockmasons & Stonemasons	275,634	3.2%	83.7%	287,724	3,725	1.3%	275,634	3,616	1.3%	12,090	109	0.9%	0.4%	1,131
(9)	6330	Drywall Installers, Ceiling Tile Installers & Tapers	264,370	3.1%	86.8%	269,496	3,523	1.3%	264,370	3,445	1.3%	5,126	78	1.5%	-0.2%	-578
(10)	6240	Carpet, Floor & Tile Installers & Finishers	253,368	3.0%	89.8%	299,286	4,848	1.6%	253,368	3,981	1.6%	45,918	867	1.9%	-0.3%	-803
(11)	6600	Helpers, Construction Trades	130,210	1.5%	91.3%	141,276	2,378	1.7%	130,210	2,157	1.7%	11,066	221	2.0%	-0.3%	-443
(12)	6250	Cement Masons, Concrete Finishers & Terrazzo Workers	120,308	1.4%	92.7%	125,137	1,671	1.3%	120,308	1,671	1.4%	4,829	0	0.0%	1.4%	1,671
(13)	6730	Highway Maintenance Workers	111,078	1.3%	94.0%	123,524	1,776	1.4%	111,078	1,563	1.4%	12,446	213	1.7%	-0.3%	-338

(29)	ΓΟΤΑ	L Weighted to Match % of Empl	loyees in Co	onstructio	n [Columr	n (d)]					1.5%			1.7%	-0.2%	-14,160
(28)	ΓΟΤΑΙ	L	8,529,387	100.0%	100.0%	9,899,932	149,132	1.5%	8,529,387	129,536	1.5%	1,370,545	19,596	1.4%		
(27)	6720	Hazardous Materials Removal Workers	5,171	0.1%	100.0%	38,701	410	1.1%	5,171	25	0.5%	33,530	385	1.1%	-0.7%	-34
(26)	6210	Boilermakers	11,457	0.1%	99.9%	25,989	353	1.4%	11,457	148	1.3%	14,532	205	1.4%	-0.1%	-14
(25)	6500	Reinforcing Iron & Rebar Workers	11,847	0.1%	99.8%	13,626	332	2.4%	11,847	287	2.4%	1,779	45	2.5%	-0.1%	-13
(24)	6430	Paperhangers	11,418	0.1%	99.7%	13,023	82	0.6%	11,418	35	0.3%	1,605	47	2.9%	-2.6%	-299
(23)	6700	Elevator Installers & Repairers	26,031	0.3%	99.5%	32,710	343	1.0%	26,031	240	0.9%	6,679	103	1.5%	-0.6%	-161
(22)	6300	Paving, Surfacing & Tamping Equipment Operators	27,137	0.3%	99.2%	27,786	503	1.8%	27,137	448	1.7%	649	55	8.5%	-6.8%	-1,852
(21)	6360	Glaziers	36,108	0.4%	98.9%	56,872	887	1.6%	36,108	570	1.6%	20,764	317	1.5%	0.1%	19
(20)	6710	Fence Erectors	38,308	0.4%	98.5%	44,778	794	1.8%	38,308	585	1.5%	6,470	209	3.2%	-1.7%	-652
(19)	6760	Miscellaneous Construction Workers, Including Septic	37,813	0.4%	98.0%	66,448	1,044	1.6%	37,813	353	0.9%	28,635	691	2.4%	-1.5%	-559
(18)	6660	Construction & Building Inspectors	40,259	0.5%	97.6%	127,734	1,280	1.0%	40,259	507	1.3%	87,475	773	0.9%	0.4%	151
(17)	6400	Insulation Workers	51,329	0.6%	97.1%	57,213	1,007	1.8%	51,329	876	1.7%	5,884	131	2.2%	-0.5%	-267
(16)	6460	Plasterers & Stucco Masons	60,155	0.7%	96.5%	61,283	759	1.2%	60,155	759	1.3%	1,128	0	0.0%	1.3%	759
(15)	6530	Structural Iron & Steel Workers	67,184	0.8%	95.8%	89,219	1,340	1.5%	67,184	1,063	1.6%	22,035	277	1.3%	0.3%	218
(14)	6520	Sheet Metal Workers	87,318	1.0%	95.0%	171,306	1,976	1.2%	87,318	1,039	1.2%	83,988	937	1.1%	0.1%	65

Note:Two or more races equals Two or more racial groups represented.

Occupations w/Shortfall: 16 Occupations with Shortfall / 27 Occupations: 59.3%

Appendix Table B.6 White Construction Trade Workers in the Construction Industry and Other Industries, 2006-2008 Census American Community Survey

i	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
		Occupation	the C	ployment i Constructio Industry		h	All ndustries			onstruction Industry		Ċ	ndustries Other than Onstruction	1	% White in Construction Industry - % White	Shortfall in White Workers in Construction Industry Compared to their
			Total Workers	% of Total Workers	Cumu- lative %	Total Workers	White Workers	White %	Total Workers	White Workers	White %	Total Workers	White Workers	White %	in Other Industries	Representation in Other Industries
(1)	6260	Construction Laborers	2,285,323	26.8%	26.8%	2,404,650	1,269,769	52.8%	2,285,323	1,201,715	52.6%	119,327	68,054	57.0%	-4.4%	-101,639
(2)	6230	Carpenters	1,809,344	21.2%	48.0%	2,017,399	1,357,212	67.3%	1,809,344	1,219,151	67.4%	208,055	138,061	66.4%	1.0%	18,508
(3)	6420	Painters, Construction & Maintenance	764,618	9.0%	57.0%	857,509	471,598	55.0%	764,618	416,278	54.4%	92,891	55,320	59.6%	-5.1%	-39,080
(4)	6350	Electricians	690,383	8.1%	65.1%	968,180	724,918	74.9%	690,383	513,588	74.4%	277,797	211,330	76.1%	-1.7%	-11,611
(5)	6440	Pipelayers, Plumbers, Pipefitters & Steamfitters	580,426	6.8%	71.9%	739,593	516,564	69.8%	580,426	407,608	70.2%	159,167	108,956	68.5%	1.8%	10,284
(6)	6320	Construction Equipment Operators, except Paving	417,694	4.9%	76.8%	517,416	400,130	77.3%	417,694	324,045	77.6%	99,722	76,085	76.3%	1.3%	5,357
(7)	6510	Roofers	315,096	3.7%	80.5%	322,054	164,253	51.0%	315,096	160,347	50.9%	6,958	3,906	56.1%	-5.2%	-16,538
(8)	6220	Brickmasons, Blockmasons & Stonemasons	275,634	3.2%	83.7%	287,724	152,064	52.9%	275,634	144,625	52.5%	12,090	7,439	61.5%	-9.1%	-24,973
(9)	6330	Drywall Installers, Ceiling Tile Installers & Tapers	264,370	3.1%	86.8%	269,496	117,404	43.6%	264,370	114,399	43.3%	5,126	3,005	58.6%	-15.4%	-40,582
(10)	6240	Carpet, Floor & Tile Installers & Finishers	253,368	3.0%	89.8%	299,286	163,330	54.6%	253,368	139,661	55.1%	45,918	23,669	51.5%	3.6%	9,059
(11)	6600	Helpers, Construction Trades	130,210	1.5%	91.3%	141,276	70,913	50.2%	130,210	65,307	50.2%	11,066	5,606	50.7%	-0.5%	-657
(12)	6250	Cement Masons, Concrete Finishers & Terrazzo Workers	120,308	1.4%	92.7%	125,137	54,307	43.4%	120,308	52,346	43.5%	4,829	1,961	0.0%	43.5%	52,346

						• •••••••••••••••••••••••••••••••••••			Occupations:	51.9%					
L								<u> </u>			1	0	ccupatio	ns w/Shortfall:	14
ΤΟΤΑ	L Weighted to Match % of Empl	oyees in Co	onstructio	n [Columr	n (d)]					60.7%			62.1%	-1.4%	-122,032
ΤΟΤΑ	L	8,529,387	100.0%	100.0%	9,899,932	6,120,590	61.8%	8,529,387	5,178,715	60.7%	1,370,545	941,875	68.7%		
6720	Hazardous Materials Removal Workers	5,171	0.1%	100.0%	38,701	19,576	50.6%	5,171	2,215	42.8%	33,530	17,361	51.8%	-8.9%	-462
6210	Boilermakers	11,457	0.1%	99.9%	25,989	20,364	78.4%	11,457	9,398	82.0%	14,532	10,966	75.5%	6.6%	752
6500	Reinforcing Iron & Rebar Workers	11,847	0.1%	99.8%	13,626	8,238	60.5%	11,847	7,154	60.4%	1,779	1,084	60.9%	-0.5%	-65
6430	Paperhangers	11,418	0.1%	99.7%	13,023	10,838	83.2%	11,418	9,979	87.4%	1,605	859	53.5%	33.9%	3,868
6700	Elevator Installers & Repairers	26,031	0.3%	99.5%	32,710	26,870	82.1%	26,031	21,231	81.6%	6,679	5,639	84.4%	-2.9%	-747
6300	Paving, Surfacing & Tamping Equipment Operators	27,137	0.3%	99.2%	27,786	18,786	67.6%	27,137	18,285	67.4%	649	501	77.2%	-9.8%	-2,664
6360	Glaziers	36,108	0.4%	98.9%	56,872	42,828	75.3%	36,108	27,140	75.2%	20,764	15,688	75.6%	-0.4%	-141
6710	Fence Erectors	38,308	0.4%	98.5%	44,778	27,423	61.2%	38,308	23,473	61.3%	6,470	3,950	61.1%	0.2%	86
6760	Miscellaneous Construction Workers, Including Septic	37,813	0.4%	98.0%	66,448	44,074	66.3%	37,813	24,127	63.8%	28,635	19,947	69.7%	-5.9%	-2,213
6660	Construction & Building Inspectors	40,259	0.5%	97.6%	127,734	100,450	78.6%	40,259	30,104	74.8%	87,475	70,346	80.4%	-5.6%	-2,272
6400	Insulation Workers	51,329	0.6%	97.1%	57,213	32,452	56.7%	51,329	29,447	57.4%	5,884	3,005	51.1%	6.3%	3,233
6460	Plasterers & Stucco Masons	60,155	0.7%	96.5%	61,283	21,131	34.5%	60,155	20,656	34.3%	1,128	475	0.0%	34.3%	20,656
6530	Structural Iron & Steel Workers	67,184	0.8%	95.8%	89,219	62,867	70.5%	67,184	48,116	71.6%	22,035	14,751	66.9%	4.7%	3,141
6520	Sheet Metal Workers	87,318	1.0%	95.0%	171,306	130,852	76.4%	87,318	66,726	76.4%	83,988	64,126	76.4%	0.1%	57
6730	Highway Maintenance Workers	111,078	1.3%	94.0%	123,524	91,379	74.0%	111,078	81,594	73.5%	12,446	9,785	78.6%	-5.2%	-5,735

Note:White equals White Alone, Non-Hispanic.

Appendix Table B.7 Hispanic Construction Trade Workers in the Construction Industry and Other Industries, 2006-2008 Census American Community Survey

r	(a)	(b)	(C)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
		Occupation	the (ployment in Constructic Industry			All Industries		C	onstruction Industry			Industries Other than Constructio		% Hispanic in Construction Industry - % Hispanic	Shortfall in Hispanic Workers in Construction Industry Compared to
			Total Workers	% of Total Workers	Cumu- lative %	Total Workers	Hispanic Workers	Hispanic %	Total Workers	Hispanic Workers	Hispanic %	Total Workers	Hispanic Workers	Hispanic %	in Other Industries	their Represent- ation in Other Industries
(1)	6260	Construction Laborers	2,285,323	26.8%	26.8%	2,404,650	809,521	33.7%	2,276,300	784,360	34.5%	128,350	25,161	19.6%	14.9%	338,127
(2)	6230	Carpenters	1,809,344	21.2%	48.0%	2,017,399	479,025	23.7%	1,848,664	433,284	23.4%	168,735	45,741	27.1%	-3.7%	-67,855
(3)	6420	Painters, Construction & Maintenance	764,618	9.0%	57.0%	857,509	288,608	33.7%	785,667	267,698	34.1%	71,842	20,910	29.1%	5.0%	39,025
(4)	6350	Electricians	690,383	8.1%	65.1%	968,180	134,501	13.9%	674,387	106,546	15.8%	293,793	27,955	9.5%	6.3%	42,377
(5)	6440	Pipelayers, Plumbers, Pipefitters & Steamfitters	580,426	6.8%	71.9%	739,593	141,376	19.1%	577,413	115,519	20.0%	162,180	25,857	15.9%	4.1%	23,460
(6)	6320	Construction Equipment Operators, except Paving	417,694	4.9%	76.8%	517,416	65,186	12.6%	421,496	54,908	13.0%	95,920	10,278	10.7%	2.3%	9,744
(7)	6510	Roofers	315,096	3.7%	80.5%	322,054	121,549	37.7%	327,163	119,683	36.6%	5,109	1,866	36.5%	0.1%	191
(8)	6220	Brickmasons, Blockmasons & Stonemasons	275,634	3.2%	83.7%	287,724	90,718	31.5%	282,320	87,943	31.2%	5,404	2,775	51.4%	-20.2%	-57,031
(9)	6330	Drywall Installers, Ceiling Tile Installers & Tapers	264,370	3.1%	86.8%	269,496	126,793	47.0%	275,945	125,452	45.5%	6,449	1,341	20.8%	24.7%	68,072
(10)	6240	Carpet, Floor & Tile Installers & Finishers	253,368	3.0%	89.8%	299,286	109,820	36.7%	252,234	92,206	36.6%	47,052	17,614	37.4%	-0.9%	-2,218
(11)	6600	Helpers, Construction Trades	130,210	1.5%	91.3%	141,276	50,638	35.8%	136,796	47,198	34.5%	4,480	3,440	76.8%	-42.3%	-57,842
(12)	6250	Cement Masons, Concrete Finishers & Terrazzo Workers	120,308	1.4%	92.7%	125,137	49,671	39.7%	124,799	47,806	38.3%	338	1,865	18.1%	20.2%	25,188
(13)	6730	Highway Maintenance Workers	111,078	1.3%	94.0%	123,524	13,812	11.2%	108,372	12,895	11.9%	15,152	917	6.1%	5.8%	6,336

(29) TOTA	L Weighted to Match % of Emplo	oyees in Con	struction	[Column (d)]					28.1%			26.5%	1.4%	117,134
(28) TOTA	L	8,529,387	100.0%	100.0%	9,899,932	2,644,602	26.7%	8,598,654	2,414,106	28.1%	1,324,394	230,496	17.4%		
(27) 6720	Hazardous Materials Removal Workers	5,171	0.1%	100.0%	38,701	10,637	27.5%	5,289	2,063	39.0%	33,412	8,574	25.7%	13.3%	706
(26) 6210	Boilermakers	11,457	0.1%	99.9%	25,989	2,668	10.3%	10,438	777	7.4%	15,551	1,891	12.2%	-4.7%	-492
(25) 6500	Reinforcing Iron & Rebar Workers	11,847	0.1%	99.8%	13,626	3,859	28.3%	10,687	3,436	32.2%	2,939	423	14.4%	17.8%	1,898
(24) 6430	Paperhangers	11,418	0.1%	99.7%	13,023	1,268	9.7%	11,733	777	6.6%	1,290	491	38.1%	-31.4%	-3,689
(23) 6700	Elevator Installers & Repairers	26,031	0.3%	99.5%	32,710	3,218	9.8%	24,187	2,792	11.5%	8,523	426	5.0%	6.5%	1,583
(22) 6300	Paving, Surfacing & Tamping Equipment Operators	27,137	0.3%	99.2%	27,786	5,500	19.8%	29,286	5,429	18.5%	-1,500	71	-4.7%	23.3%	6,815
(21) 6360	Glaziers	36,108	0.4%	98.9%	56,872	9,609	16.9%	31,797	6,447	20.3%	25,075	3,162	12.6%	7.7%	2,437
(20) 6710	Fence Erectors	38,308	0.4%	98.5%	44,778	13,428	30.0%	35,157	11,580	32.9%	9,621	1,848	19.2%	13.7%	4,827
(19) 6760	Miscellaneous Construction Workers, Including Septic	37,813	0.4%	98.0%	66,448	12,963	19.5%	38,692	8,151	21.1%	27,756	4,812	17.3%	3.7%	1,443
(18) 6660	Construction & Building Inspectors	40,259	0.5%	97.6%	127,734	11,588	9.1%	38,829	4,579	11.8%	88,905	7,009	7.9%	3.9%	1,518
(17) 6400	Insulation Workers	51,329	0.6%	97.1%	57,213	18,439	32.2%	51,960	16,518	31.8%	5,253	1,921	36.6%	-4.8%	-2,484
(16) 6460	Plasterers & Stucco Masons	60,155	0.7%	96.5%	61,283	32,889	53.7%	61,214	32,554	53.2%	69	335	485.5%	-432.3%	-264,644
(15) 6530	Structural Iron & Steel Workers	67,184	0.8%	95.8%	89,219	15,266	17.1%	68,144	11,197	16.4%	21,075	4,069	19.3%	-2.9%	-1,960
(14) 6520	Sheet Metal Workers	87,318	1.0%	95.0%	171,306	22,052	12.9%	89,685	12,308	13.7%	81,621	9,744	11.9%	1.8%	1,601

Note: Hispanic equals Hispanic/Latino alone and combined with any other race group.

Occupations w/Shortfall: 9 Occupations with Shortfall / 27 Occupations: 33.3%

Appendix Table B.8 Average Annual Earnings in Selected On-Site Construction Occupations, National Compensation Survey 2006

1	(a) (b)	(c)	(d)	(e)	(f)	(g)	(i)	(j)	(k)
		Average	She	ortfall(-)or:	Surplus (+)		Appendix Ta	ables B.1 - B	.7
	2002 Census Occupation Title	Annual Earnings, 2006	Women	African Americans	Asian Americans	Am. Ind./ Al. Nat. + Nat. Haw./ Oth. Pac. Is.	More than 2 Races or Other	Whites	Hispanics
(1)	670 Elevator Installers & repairers	\$78,880	-643	-73	-147	-302	-161	-747	1,583
(2)	679 Structural iron and steel workers	\$57,713	-1,617	-3,264	112	1,676	218	3,141	-1,960
(3)	666 Construction & building inspectors	\$52,408	-1,677	-208	432	485	151	-2,272	1,518
(4)	678 Brickmasons, blockmasons, & stonemasons	\$50,298	-4,393	218	-1,495	-159	1,131	-24,973	-57,031
(5)	635 Electricians	\$47,453	-16,222	-17,783	-2,038	-624	780	-11,611	42,337
(6)	676 Pipelayers, plumbers, pipefitters, & steamfitters	\$46,809	-5,819	-25,184	-1,368	-3,940	2,050	10,284	23,460
(7)	621 Boilermakers	\$43,948	4	-69	0	28	-14	752	492
(8)	677 Carpenters	\$41,688	-47,911	-39,693	-2,860	-7,102	2,119	18,508	-67,856
(9)	633 Carpet, floor, and tile installers & finishers	\$39,975	-3,689	-4,688	230	-1,010	-803	9,059	-2,218
(10)	678 Sheet metal workers	\$39,832	-3,511	-929	-385	154	65	57	1,601
(11)	632 Misc. construction equipment operators	\$39,174	-7,916	-11,122	781	-6,560	3,084	5,357	9,744
(12)	678 Cement masons, concrete finishers, & terrazo workers	\$38,946	325	-5,001	211	1,827	1,671	52,346	25,188
(13)	672 Hazardous materials removal workers	\$38,409	-243	-312	51	-101	-34	-462	706
(14)	647 Glaziers	\$37,896	-503	-1,023	26	26	19	-141	2,437
(15)	643 Drywall installers, ceiling tile installers, & tapers	\$36,554	-7,540	-14,890	659	-529	-578	-40,582	68,072
(16)	646 Plasterers & stucco masons	\$34,150	-3,876	-14,908	104	725	759	20,656	-264,644
(17)	640 Insulation workers	\$34,039	-2,271	-4,033	140	41	-267	3,233	-2,484
(18)	676 Misc. construction & related workers	\$32,868	-568	714	25	-239	-559	-2,213	1,443
(19)	673 Highway maintenance workers	\$31,518	-1,706	870	-61	-328	-338	-5,735	6,336
(20)	648 Paperhangers	\$31,143	1,098	-1,565	213	-206	-299	3,868	-3,689
(21)	642 Painters, construction & maintenance	\$30,991	-27,753	-55,846	-456	-1,232	-1,417	-39,080	39,025
(22)	677 Roofers	\$30,627	-5,830	-21,739	860	-2,250	-2,383	-16,538	191
(23)	630 Paving, surfacing, & tamping equipment operators	\$29,873	-5,910	1,961	0	-2,513	-1,852	-2,664	6,815
(24)	675 Construction laborers	\$29,802	-55,995	-165,283	-2,855	-30,136	-16,392	-101,639	338,127
(25)	660 Helpers, construction trades	\$25,700	-5,740	-2,586	-594	-358	-443	-657	-57,842
(26)	Shortfall-Weighted Average Annua Construction Occuptions with Sho		\$36,718	\$34,391	\$40,200	\$39,160	\$31,198	\$34,447	\$36,371
(27)	Surplus-Weighted Average Annual Occupations with Surplus		\$32,956	\$25,768	\$36,424	\$45,910	\$42,839	\$39,416	\$33,595
(28)	Row (27) / Row (28)		89.8%	74.9%	90.6%	117.2%	137.3%	114.4%	92.4%

Source: Column (c): US Bureau of Labor Statistics, National Compensation Survey: Occupational Wages in the United States, June 2006, Summary 07-03, June 2007, Table 2 (for full-time civilian workers), at http://www.bls.gov/ncs/ocs/sp/ncbl0910.pdf, downloaded June 10, 2010. Separate average earnings are not available for Fence Erectors, Reinforcing Iron & Rebar Workers, and Septic Tank Servicers.

Appendix Table B.9 Representation of Women by Occupational Earnings, Selected Construction Occupations, ACS 2006-2008

	(a)	(b)	(c)	(d)	(e)	(f)
	Category	Average Annual	Occupation		n Employe truction Ir	
	Calegory	Earnings, 2006	Occupation	Number	%	Average %*
(1)		\$78,880	Elevator Installers & repairers	398	1.5%	
(2)		\$57,713	Structural iron and steel workers	990	1.5%	
(3)		\$52,408	Construction & building inspectors	3,434	8.5%	
(4)	Ten	\$50,298	Brickmasons, blockmasons, & stonemasons	2,675	1.0%	
(5)	Best-Paid	\$47,453	Electricians	12,333	1.8%	1.8%
(6)	Construction	\$46,809	Pipelayers, plumbers, pipefitters, & steamfitters	8,906	1.5%	1.076
(7)	Trades	\$43,948	Boilermakers	170	1.5%	
(8)		\$41,688	Carpenters	30,435	1.7%	
(9)		\$39,975	Carpet, floor & tile installers & finishers	6,502	2.6%	
(10)		\$39,832	Sheet metal workers	2,307	2.6%	
(11)		\$39,174	Misc. construction equipment operators	8,796	2.1%	
(12)		\$38,946	Cement masons, concrete finishers, & terrazo	1,197	1.0%	
(13)		\$38,409	Hazardous materials removal workers	630	12.2%	
(14)		\$37,896	Glaziers	480	1.3%	
(15)		\$36,554	Drywall installers, ceiling tile installers, & tapers	7,313	2.8%	
(16)	Intermediate-	\$34,150	Plasterers & stucco masons	924	1.5%	
(17)	Level Construction	\$34,039	Insulation workers	1,951	3.8%	2.4%
(18)	Trades	\$32,868	Misc. construction & related workers	1,313	3.4%	
(19)		\$31,518	Highway maintenance workers	3,836	3.5%	
(20)		\$31,143	Paperhangers	3,211	28.1%	
(21)		\$30,991	Painters, construction & maintenance	61,450	8.0%	
(22)		\$30,627	Roofers	4,767	1.5%	
(23)		\$29,873	Paving, surfacing, & tamping equip. operators	697	2.6%	
(24)	Entry-Level	\$29,802	Construction laborers	88,856	3.7%	3.8%
(25)	Positions	\$25,700	Helpers, construction trades	6,003	4.6%	5.070
(26)	Ratio of Weight	ed Average f	or 10 Best Paid to Weighted Average for Entry-Leve	el Positions		0.49
(27)	Ratio of Weight	ed Average f	or Intermediate Level to Weighted Average for Entry	/-Level Posi	tions	0.65

Source for Columns (b) and (c): Appendix Table B.8.

Source for Columns (d) and (e): Appendix Table B.1

Column (f) = average of Column (e) weighted by Column (d).

Appendix Table B.10 Representation of African Americans by Occupational Earnings, Selected Construction Occupations, ACS 2006-2008

_	(a)	(b)	(C)	(d)	(e)	(f)
	Category	Average Annual	Occupation		s. Employ truction Ir	
	Calegory	Earnings, 2006	Occupation	Number	%	Average %*
(1)		\$78,880	Elevator Installers & repairers	1,537	6.0%	
(2)		\$57,713	Structural iron and steel workers	4,264	6.3%	
(3)		\$52,408	Construction & building inspectors	3,211	8.0%	
(4)	Ten	\$50,298	Brickmasons, blockmasons, & stonemasons	35,647	12.9%	
(5)	Best-Paid	\$47,453	Electricians	12,333	1.8%	6.8%
(6)	Construction	\$46,809	Pipelayers, plumbers, pipefitters, & steamfitters	41,462	7.1%	0.076
(7)	Trades	\$43,948	Boilermakers	843	7.4%	
(8)		\$41,688	Carpenters	96,485	5.3%	
(9)		\$39,975	Carpet, floor & tile installers & finishers	13,179	5.2%	
(10)		\$39,832	Sheet metal workers	5,949	6.8%	
(11)		\$39,174	Misc. construction equipment operators	25,947	6.2%	
(12)		\$38,946	Cement masons, concrete finishers, & terrazo	17,371	14.4%	
(13)		\$38,409	Hazardous materials removal workers	623	12.0%	
(14)		\$37,896	Glaziers	1,481	4.1%	
(15)		\$36,554	Drywall installers, ceiling tile installers, & tapers	17,138	6.5%	
(16)	Intermediate-	\$34,150	Plasterers & stucco masons	6,530	10.9%	
(17)	Level Construction	\$34,039	Insulation workers	4,219	8.2%	8.5%
(18)	Trades	\$32,868	Misc. construction & related workers	4,279	11.3%	
(19)		\$31,518	Highway maintenance workers	13,561	12.2%	
(20)		\$31,143	Paperhangers	249	2.2%	
(21)		\$30,991	Painters, construction & maintenance	53,796	7.0%	
(22)		\$30,627	Roofers	26,716	8.5%	
(23)		\$29,873	Paving, surfacing, & tamping equip. operators	2,881	10.6%	
(24)	Entry-Level	\$29,802	Construction laborers	217,886	9.9%	10.0%
(25)	Positions	\$25,700	Helpers, construction trades	13,179	10.8%	10.0%
(26)	Ratio of Weighte	ed Average f	or 10 Best Paid to Weighted Average for Entry-Leve	el Positions		0.68
(27)	Ratio of Weight	ed Average f	or Intermediate Level to Weighted Average for Entry	-Level Posi	tions	0.86

Source for Columns (b) and (c): Appendix Table B.8.

Source for Columns (d) and (e): Appendix Table B.2

Column (f) = average of Column (e) weighted by Column (d).

Appendix Table B.11 Representation of Asians by Occupational Earnings, Selected Construction Occupations, ACS 2006-2008

_	(a)	(b)	(C)	(d)	(e)	(f)
	Category	Average Annual	Occupation		s Employe truction l	
	Category	Earnings, 2006	Occupation	Number	%	Average %*
(1)		\$78,880	Elevator Installers & repairers	40	0.2%	
(2)		\$57,713	Structural iron and steel workers	432	0.6%	
(3)		\$52,408	Construction & building inspectors	589	1.5%	
(4)	Ten	\$50,298	Brickmasons, blockmasons, & stonemasons	944	0.3%	
(5)	Best-Paid	\$47,453	Electricians	2,783	0.4%	0.3%
(6)	Construction	\$46,809	Pipelayers, plumbers, pipefitters, & steamfitters	1,166	0.2%	0.376
(7)	Trades	\$43,948	Boilermakers	0	0.0%	
(8)		\$41,688	Carpenters	4,903	0.3%	
(9)		\$39,975	Carpet, floor & tile installers & finishers	666	0.3%	
(10)		\$39,832	Sheet metal workers	295	0.3%	
(11)		\$39,174	Misc. construction equipment operators	25	0.1%	
(12)		\$38,946	Cement masons, concrete finishers, & terrazo	211	0.2%	
(13)		\$38,409	Hazardous materials removal workers	70	1.4%	
(14)		\$37,896	Glaziers	169	0.5%	
(15)		\$36,554	Drywall installers, ceiling tile installers, & tapers	659	0.2%	
(16)	Intermediate-	\$34,150	Plasterers & stucco masons	104	0.2%	
(17)	Level Construction	\$34,039	Insulation workers	140	0.3%	0.3%
(18)	Trades	\$32,868	Misc. construction & related workers	25	0.1%	
(19)		\$31,518	Highway maintenance workers	126	0.1%	
(20)		\$31,143	Paperhangers	213	1.9%	
(21)		\$30,991	Painters, construction & maintenance	2,985	0.4%	
(22)		\$30,627	Roofers	860	0.3%	
(23)		\$29,873	Paving, surfacing, & tamping equip. operators	20	0.0%	
(24)	Entry-Level	\$29,802	Construction laborers	8,521	0.4%	0.4%
(25)	Positions	\$25,700	Helpers, construction trades	489	0.4%	0.470
(26)	Ratio of Weight	ed Average f	or 10 Best Paid to Weighted Average for Entry-Leve	el Positions		0.84
(27)	Ratio of Weight	ed Average f	or Intermediate Level to Weighted Average for Entry	-Level Posit	tions	0.84

Source for Columns (b) and (c): Appendix Table B.8.

Source for Columns (d) and (e): Appendix Table B.3

Column (f) = average of Column (e) weighted by Column (d).

Appendix Table B.12

Representation of American Indians/Alaska Natives + Native Hawaiians/ Other Pacific Islanders by Occupational Earnings, Selected Construction Occupations, ACS 2006-2008

	(a)	(b)	(c)	(d)	(e)	(f)					
[Average	X /	This Gro	up Emplo	oyed in the					
	Category	Annual	Occupation	Cons	truction l	ndustry					
	Calegory	Earnings, 2006	occupation	Number	%	Average %*					
(1)		\$78,880	Elevator Installers & repairers	88	0.3%						
(2)		\$57,713	Structural iron and steel workers	3,402	4.5%						
(3)		\$52,408	Construction & building inspectors	1,074	2.7%						
(4)	Ten	\$50,298	Brickmasons, blockmasons & stonemasons	7,273	2.6%						
(5)	Best-Paid	\$47,453	Electricians	12,428	1.8%	2.1%					
(6)	Construction \$46,809 Pipelayers, plumbers, pipefitters, & steamfitters 10,767 1.9%										
(7)	Trades \$43,948 Boilermakers 327 2.9%										
(8)											
(9)		\$39,975	Carpet, floor & tile installers & finishers	4,375	1.7%						
(10)		\$39,832	Sheet metal workers	1,230	1.4%						
(11)		\$39,174	Misc. construction equipment operators	11,195	2.7%						
(12)		\$38,946	Cement masons, concrete finishers, & terrazo	3,197	2.7%						
(13)		\$38,409	Hazardous materials removal workers	79	1.5%						
(14)		\$37,896	Glaziers	490	1.4%						
(15)		\$36,554	Drywall installers, ceiling tile installers, & tapers	6,485	2.5%						
(16)	Intermediate-	\$34,150	Plasterers & stucco masons	725	1.2%						
(17)	Level Construction	\$34,039	Insulation workers	1,070	2.1%	2.3%					
(18)	Trades	\$32,868	Misc. construction & related workers	621	1.6%						
(19)		\$31,518	Highway maintenance workers	2,376	2.1%						
(20)		\$31,143	Paperhangers	50	0.4%						
(21)		\$30,991	Painters, construction & maintenance	14,161	1.9%						
(22)		\$30,627	Roofers	7,034	2.2%						
(23)											
(24)	Entry-Level	\$29,802	Construction laborers	54,821	2.4%	2.3%					
(25)	Positions	\$25,700	Helpers, construction trades	130,210	2.3%	2.3 /0					
(26)	Ratio of Weight	ed Average f	or 10 Best Paid to Weighted Average for Entry-Leve	el Positions		0.89					
(27)	Ratio of Weight	ed Average f	or Intermediate Level to Weighted Average for Entry	/-Level Posit	ions	0.97					

Source for Columns (b) and (c): Appendix Table B.8.

Source for Columns (d) and (e): Appendix Table B.4

Column (f) = average of Column (e) weighted by Column (d).

Appendix Table B.13 Representation of Persons Reported as More than Two Races or Other Races by Occupational Earnings, Selected Construction Occupations, ACS 2006-2008

	(a)	(b)	(c)	(d)	(e)	(f)						
	Category	Average Annual	Occupation		oup Emplo truction l	oyed in the ndustry						
	Calegory	Earnings, 2006	Occupation	Number	%	Average %*						
(1)		\$78,880	Elevator Installers & repairers	240	0.9%							
(2)		\$57,713	Structural iron and steel workers	1,063	1.6%							
(3)		\$52,408	Construction & building inspectors	507	1.3%							
(4)	Ten	\$50,298	Brickmasons, blockmasons, & stonemasons	3,616	1.3%							
(5)	Best-Paid	\$47,453	Electricians	9,931	1.4%	1.4%						
(6)	Construction \$46,809 Pipelayers, plumbers, pipefitters, & steamfitters 8,898 1.5%											
(7)	Trades \$43,948 Boilermakers 148 1.3%											
(8)	\$41,688 Carpenters 25,860 1.4%											
(9)	\$39,975 Carpet, floor & tile installers & finishers 3,981 1.69											
(10)		\$39,832	Sheet metal workers	1,039	1.2%							
(11)		\$39,174	Misc. construction equipment operators	7,553	1.8%							
(12)		\$38,946	Cement masons, concrete finishers, & terrazo	1,671	1.4%							
(13)		\$38,409	Hazardous materials removal workers	25	0.5%							
(14)		\$37,896	Glaziers	570	1.6%							
(15)		\$36,554	Drywall installers, ceiling tile installers, & tapers	3,445	1.3%							
(16)	Intermediate-	\$34,150	Plasterers & stucco masons	759	1.3%							
(17)	Level Construction	\$34,039	Insulation workers	876	1.7%	1.6%						
(18)	Trades	\$32,868	Misc. construction & related workers	353	0.9%							
(19)	110000	\$31,518	Highway maintenance workers	1,563	1.4%							
(20)		\$31,143	Paperhangers	35	0.3%							
(21)		\$30,991	Painters, construction & maintenance	12,379	1.6%							
(22)		\$30,627	Roofers	5,904	1.9%							
(23)												
(24) Entry-Level \$29,802 Construction laborers 2,717 2.3%												
(25)	Positions	\$25,700	Helpers, construction trades	2,157	1.7%	2.0%						
(26)	Ratio of Weight	ed Average f	or 10 Best Paid to Weighted Average for Entry-Leve	el Positions		0.70						
(27)	Ratio of Weight	ed Average f	or Intermediate Level to Weighted Average for Entry	/-Level Posit	ions	0.80						

Source for Columns (b) and (c): Appendix Table B.8.

Source for Columns (d) and (e): Appendix Table B.5

Column (f) = average of Column (e) weighted by Column (d).

Appendix Table B.14 Representation of Whites by Occupational Earnings, Selected Construction Occupations, ACS 2006-2008

_	(a)	(b)	(C)	(d)	(e)	(f)						
	Category	Average Annual	Occupation		Employe							
	Calegory	Earnings, 2006	Occupation	Number	%	Average %*						
(1)		\$78,880	Elevator Installers & repairers	21,231	81.6%							
(2)		\$57,713	Structural iron and steel workers	48,116	71.6%							
(3)		\$52,408	Construction & building inspectors	30,104	74.8%							
(4)	Ten	\$50,298	Brickmasons, blockmasons, & stonemasons	144,625	52.5%							
(5)	Best-Paid	\$47,453	Electricians	513,588	74.4%	68.3%						
(6)	Construction	\$46,809	Pipelayers, plumbers, pipefitters, & steamfitters	407,608	70.2%	00.376						
(7)	Trades \$43,948 Boilermakers 9,398 82.0%											
(8)	\$41,688 Carpenters 1,219,151 67.4%											
(9)	\$39,975 Carpet, floor & tile installers & finishers 139,661 55.1%											
(10)		\$39,832	Sheet metal workers	66,726	76.4%							
(11)		\$39,174	Misc. construction equipment operators	324,045	77.6%							
(12)		\$38,946	Cement masons, concrete finishers, & terrazo	52,346	43.5%							
(13)		\$38,409	Hazardous materials removal workers	2,215	42.8%							
(14)		\$37,896	Glaziers	27,140	75.2%							
(15)		\$36,554	Drywall installers, ceiling tile installers, & tapers	114,399	43.3%							
(16)	Intermediate-	\$34,150	Plasterers & stucco masons	20,656	34.3%							
(17)	Level Construction	\$34,039	Insulation workers	29,447	57.4%	60.4%						
(18)	Trades	\$32,868	Misc. construction & related workers	24,127	63.8%							
(19)		\$31,518	Highway maintenance workers	81,594	73.5%							
(20)		\$31,143	Paperhangers	9,979	87.4%							
(21)		\$30,991	Painters, construction & maintenance	416,278	54.4%							
(22)		\$30,627	Roofers	160,347	50.9%							
(23)												
(24)	Entry-Level	\$29,802	Construction laborers	1,201,715	52.6%	52.5%						
(25)	Positions	\$25,700	Helpers, construction trades	65,307	50.2%	52.570						
(26)	Ratio of Weight	ed Average f	or 10 Best Paid to Weighted Average for Entry-Leve	el Positions		1.30						
(27)	Ratio of Weight	ed Average f	or Intermediate Level to Weighted Average for Entry	/-Level Positi	ons	1.15						

Source for Columns (b) and (c): Appendix Table B.8.

Source for Columns (d) and (e): Appendix Table B.6.

Column (f) = average of Column (e) weighted by Column (d).

Appendix Table B.15 Representation of Hispanics by Occupational Earnings, Selected Construction Occupations, ACS 2006-2008

_	(a)	(b)	(c)	(d)	(e)	(f)					
		Average			cs Employ truction In	yed in the					
	Category	Annual Earnings, 2006	Occupation	Number	%	Average %*					
(1)		\$78,880	Elevator Installers & repairers	2,792	11.5%	70					
(1)		\$57,713	Structural iron and steel workers	11,197	16.4%						
(2)		\$52,408	Construction & building inspectors	4,579	10.4%						
(4)	Ten	\$50,298	Brickmasons, blockmasons, & stonemasons	87,943	31.2%						
(5)	Best-Paid	\$47,453	Electricians	106,546	15.8%						
(6)	Construction	\$46,809	Pipelayers, plumbers, pipefitters, & steamfitters	115,519	20.0%	23.9%					
(7)	Trades\$43,948Boilermakers7777.4%										
(8)	\$41,688 Carpenters 433,284 23.4%										
(9)	\$39,975 Carpet, floor & tile installers & finishers 92,206 36.6%										
(10)		\$39,832	Sheet metal workers	12,308	13.7%						
(11)		\$39,174	Misc. construction equipment operators	54,908	13.0%						
(12)		\$38,946	Cement masons, concrete finishers, & terrazo	47,806	38.3%						
(13)		\$38,409	Hazardous materials removal workers	2,063	39.0%						
(14)		\$37,896	Glaziers	6,447	20.3%						
(15)		\$36,554	Drywall installers, ceiling tile installers, & tapers	125,452	45.5%						
(16)	Intermediate-	\$34,150	Plasterers & stucco masons	32,554	53.2%						
(17)	Level Construction	\$34,039	Insulation workers	16,518	31.8%	35.2%					
(18)	Trades	\$32,868	Misc. construction & related workers	8,151	21.1%						
(19)	Tradoo	\$31,518	Highway maintenance workers	12,895	11.9%						
(20)		\$31,143	Paperhangers	777	6.6%						
(21)		\$30,991	Painters, construction & maintenance	267,698	34.1%						
(22)		\$30,627	Roofers	119,683	36.6%						
(23)		\$29,873	Paving, surfacing, & tamping equip. operators	5,429	18.5%						
(24) Entry-Level \$29,802 Construction laborers 784,360 34.5%											
(25)	Positions	\$25,700	Helpers, construction trades	47,198	34.5%	34.5%					
(26)	Ratio of Weighte	ed Average f	or 10 Best Paid to Weighted Average for Entry-Leve	Positions		0.69					
(27)	Ratio of Weighte	ed Average f	or Intermediate Level to Weighted Average for Entry	-Level Posi	tions	1.02					

Source for Columns (b) and (c): Appendix Table B.8.

Source for Columns (d) and (e): Appendix Table B.7

Column (f) = average of Column (e) weighted by Column (d).

APPENDIX C

Appendix Table C.1 Gender Shortfalls in Craft Workers, Operatives, and Laborers at Construction Firms Filing EEO-1 Reports, 2008

Г	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)
				C	raft Workers (Skilled)					Operatives Semi-Skilled)					Laborers (Unskilled)		
	NAICS Code	Construction Sector	Number of Employees in this	% Women in Compa- rison	% Women in this Sector	(-=s	ortfall hortfall, ongfall)	Number of Employees in this	% Women in Compa- rison	% Women in this Sector	(-=s	ortfall hortfall, ongfall)	Number of Employees in this	% Women in Compa- rison	% Women in this Sector	(-=s	ortfall hortfall, ongfall)
			Sector	Sectors *	000101	%	Number	Sector	Sectors *	000101	%	Number	Sector	Sectors *	000101	%	Number
(1)	23	All Construction	631,337	8.60%	1.80%	-6.8%	-42,931	165,524	25.63%	3.44%	-22.2%	-36,730	261,066	32.66%	4.29%	-28.4%	-74,064
(2)	236	Construction of Buildings	145,663	8.60%	1.77%	-6.8%	-9,942	24,845	25.63%	5.35%	-20.3%	-5,038	57,889	32.66%	3.89%	-28.8%	-16,654
(3)	237	Heavy and Civil Engineering	135,504	8.60%	2.30%	-6.3%	-8,541	70,123	25.63%	3.63%	-22.0%	-15,430	81,296	32.66%	6.20%	-26.5%	-21,509
(4)	238	Specialty Trade Contractors	350,170	8.60%	1.61%	-7.0%	-24,469	70,556	25.63%	2.59%	-23.0%	-16,260	121,881	32.66%	3.21%	-29.4%	-35,891
(5)	23621	Industrial Building Construction	26,990	8.60%	2.34%	-6.3%	-1,690	6,487	25.63%	11.41%	-14.2%	-922	7,590	32.66%	5.11%	-27.6%	-2,091
(6)	23622	Commercial & Institutional Building Construction	100,351	8.60%	1.64%	-7.0%	-6,984	14,993	25.63%	2.94%	-22.7%	-3,402	41,656	32.66%	3.62%	-29.0%	-12,097
(7)	23711	Water & Sewer Line Construction	11,071	8.60%	1.75%	-6.9%	-758	5,395	25.63%	1.58%	-24.1%	-1,297	10,042	32.66%	2.56%	-30.1%	-3,023
(8)	23712	Oil and Gas Pipeline Construction	4,499	8.60%	1.00%	-7.6%	-342	1,428	25.63%	3.85%	-21.8%	-311	3,126	32.66%	5.47%	-27.2%	-850
(9)	23713	Power & Communications Line Construction	17,115	8.60%	1.87%	-6.7%	-1,152	4,017	25.63%	2.27%	-23.4%	-938	5,323	32.66%	3.51%	-29.2%	-1,552
(10)	23721	Land Subdivision	1,057	8.60%	1.42%	-7.2%	-76	1,166	25.63%	2.74%	-22.9%	-267	1,639	32.66%	11.41%	-21.3%	-348
(11)	23731	Highway, Street & Bridge Construction	50,889	8.60%	2.49%	-6.1%	-3,109	41,933	25.63%	3.90%	-21.7%	-9,112	41,823	32.66%	6.42%	-26.2%	-10,974
(12)	23799	Other Heavy & Civil Engineering Construction	50,873	8.60%	2.49%	-6.1%	-3,108	16,184	25.63%	3.99%	-21.6%	-3,502	19,343	32.66%	8.04%	-24.6%	-4,762
(13)	23811	Poured Concrete Foundation & Structure Construction	12,797	8.60%	0.88%	-7.7%	-988	1,989	25.63%	0.60%	-25.0%	-498	10,937	32.66%	0.98%	-31.7%	-3,465
(14)	23812	Structural Steel & Precast Concrete Contractors	3,897	8.60%	1.10%	-7.5%	-292	373	25.63%	7.77%	-17.9%	-67	810	32.66%	0.74%	-31.9%	-259
(15)	23813	Framing Contractors	6,889	8.60%	1.16%	-7.4%	-513	867	25.63%	0.81%	-24.8%	-215	2,430	32.66%	1.44%	-31.2%	-759
(16)	23814	Masonry Contractors	5,673	8.60%	1.22%	-7.4%	-419	536	25.63%	0.37%	-25.3%	-135	5,928	32.66%	1.16%	-31.5%	-1,867
(17)	23815	Glass & Glazing Contractors	1,911	8.60%	0.99%	-7.6%	-145	352	25.63%	2.27%	-23.4%	-82	665	32.66%	2.41%	-30.3%	-201

(18)	23816	Roofing Contractors	7,987	8.60%	0.46%	-8.1%	-650	1,747	25.63%	0.74%	-24.9%	-435	5,952	32.66%	0.67%	-32.0%	-1,904
(19)	23817	Siding Contractors	227	8.60%	0.00%	-8.6%	-20	146	25.63%	0.00%	-25.6%	-37	108	32.66%	0.00%	-32.7%	-35
(20)	23819	Other Foundation, Structure, & Bldg. Exterior Contractors	3,062	8.60%	0.49%	-8.1%	-248	1,283	25.63%	1.09%	-24.5%	-315	2,405	32.66%	2.45%	-30.2%	-727
(21)	23821	Electrical & Other Wiring Installation Contractors	50,293	8.60%	1.95%	-6.7%	-3,344	5,204	25.63%	2.56%	-23.1%	-1,201	8,887	32.66%	2.28%	-30.4%	-2,700
(22)	23822	Plumbing, Heating, & Air Conditioning Contractors	45,385	8.60%	1.03%	-7.6%	-3,436	6,006	25.63%	2.88%	-22.8%	-1,366	9,478	32.66%	1.96%	-30.7%	-2,910
(23)	23829	Other Building Equipment Contractoirs	7,917	8.60%	1.53%	-7.1%	-560	3,168	25.63%	5.71%	-19.9%	-631	2,903	32.66%	2.27%	-30.4%	-882
(24)	23831	Drywall & Insulation Contractors	30,462	8.60%	1.79%	-6.8%	-2,074	6,479	25.63%	1.61%	-24.0%	-1,556	8,264	32.66%	4.47%	-28.2%	-2,330
(25)	23832	Painting & Wall Covering Contractors	5,178	8.60%	3.07%	-5.5%	-286	443	25.63%	3.39%	-22.2%	-99	1,271	32.66%	7.16%	-25.5%	-324
(26)	23833	Flooring Contractors	925	8.60%	0.65%	-8.0%	-74	99	25.63%	2.02%	-23.6%	-23	768	32.66%	4.43%	-28.2%	-217
(27)	23834	Tile & Terrazzo Contractors	744	8.60%	3.63%	-5.0%	-37	16	25.63%	0.00%	-25.6%	-4	313	32.66%	1.92%	-30.7%	-96
(28)	23835	Finish Carpentry Contractors	943	8.60%	1.48%	-7.1%	-67	198	25.63%	0.00%	-25.6%	-51	161	32.66%	2.48%	-30.2%	-49
(29)	23839	Other Building Finishing Contractors	2,710	8.60%	0.70%	-7.9%	-214	289	25.63%	3.11%	-22.5%	-65	1,213	32.66%	4.12%	-28.5%	-346
(30)	23891	Site Preparation Contractors	6,310	8.60%	1.43%	-7.2%	-452	5,083	25.63%	2.14%	-23.5%	-1,194	6,287	32.66%	3.32%	-29.3%	-1,845
(31)	23899	All Other Specialty Trade Contractors	156,860	8.60%	1.81%	-6.8%	-10,651	36,278	25.63%	2.79%	-22.8%	-8,286	53,101	32.66%	4.45%	-28.2%	-14,980
			Number of the 27 Sub Sectors with Shortfall:				27	Numbe	r of the 27 Su	b Sectors wit	h Shortfall:	27	Numbe	er of the 27 Su	b Sectors wit	h Shortfall:	27
			9	% of the 27 Su	b Sectors wit	h Shortfall:	100.0%	9	6 of the 27 Su	b Sectors wit	h Shortfall:	100.0%	0	% of the 27 Su	b Sectors wit	h Shortfall:	100.0%

Source: EEOC, *Job Patterns for Minorities and Women in Private Industry (EEO-1), 2008,* at <u>http://www.eeoc.gov/statistics/employment/jobpat-eeo1/2008,</u> downloaded June 10, 2010.

* Comparison sectors = agriculture, mining, utilities, manufacturing, transportation, and warehousing.

Appendix Table C.2 African American Shortfalls in Craft Workers, Operatives, and Laborers at Construction Firms Filing EEO-1 Reports, 2008

г	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)
				С	raft Workers (Skilled)					Operatives Semi-Skilled)					Laborers (Unskilled)		
	NAICS Code	Construction Sector	Number of Employees in this	% Af. Am. in Compa- rison	% Af. Am. in this Sector	(-=s	ortfall hortfall, ongfall)	Number of Employees in this	% Af. Am. in Compa- rison	% Af. Am. in this Sector	(-=s	ortfall shortfall, ongfall)	Number of Employees in this	% Af. Am. in Compa- rison	% Af. Am. in this Sector	(-=s	ortfall hortfall, ongfall)
			Sector	Sectors *	000101	%	Number	Sector	Sectors *	000101	%	Number	Sector	Sectors *	000101	%	Number
(1)	23	All Construction	631,337	9.31%	6.00%	-3.3%	-20,897	165,524	13.70%	9.60%	-4.1%	-6,786	261,066	17.80%	9.17%	-8.6%	-22,530
(2)	236	Construction of Buildings	145,663	9.31%	5.13%	-4.2%	-6,087	24,845	13.70%	11.50%	-2.2%	-547	57,889	17.80%	10.29%	-7.5%	-4,350
(3)	237	Heavy & Civil Engineering	135,504	9.31%	7.84%	-1.5%	-1,998	70,123	13.70%	9.91%	-3.8%	-2,661	81,296	17.80%	10.71%	-7.1%	-5,762
(4)	238	Specialty Trade Contractors	350,170	9.31%	5.65%	-3.7%	-12,807	70,556	13.70%	8.63%	-5.1%	-3,579	121,881	17.80%	7.62%	-10.2%	-12,409
(5)	23621	Industrial Building Construction	26,990	9.31%	6.00%	-3.3%	-893	6,487	13.70%	17.08%	3.4%	219	7,590	17.80%	13.33%	-4.5%	-339
(6)	23622	Commercial & Institutional Building Construction	100,351	9.31%	5.02%	-4.3%	-4,305	14,993	13.70%	9.26%	-4.4%	-666	41,656	17.80%	10.40%	-7.4%	-3,083
(7)	23711	Water & Sewer Line Construction	11,071	9.31%	5.31%	-4.0%	-443	5,395	13.70%	6.69%	-7.0%	-378	10,042	17.80%	5.98%	-11.8%	-1,187
(8)	23712	Oil and Gas Pipeline Construction	4,499	9.31%	10.89%	1.6%	71	1,428	13.70%	11.55%	-2.2%	-31	3,126	17.80%	8.13%	-9.7%	-302
(9)	23713	Power & Communications Line Construction	17,115	9.31%	4.52%	-4.8%	-820	4,017	13.70%	6.37%	-7.3%	-294	5,323	17.80%	7.51%	-10.3%	-548
(10)	23721	Land Subdivision	1,057	9.31%	15.80%	6.5%	69	1,166	13.70%	13.64%	-0.1%	-1	1,639	17.80%	8.24%	-9.6%	-157
(11)	23731	Highway, Street & Bridge Construction	50,889	9.31%	9.21%	-0.1%	-51	41,933	13.70%	10.66%	-3.0%	-1,275	41,823	17.80%	11.18%	-6.6%	-2,769
(12)	23799	Other Heavy & Civil Engineering Construction	50,873	9.31%	7.69%	-1.6%	-824	16,184	13.70%	9.48%	-4.2%	-683	19,343	17.80%	13.67%	-4.1%	-799
(13)	23811	Poured Concrete Foundation & Structure Construction	12,797	9.31%	4.14%	-5.2%	-662	1,989	13.70%	4.98%	-8.7%	-173	10,937	17.80%	4.35%	-13.5%	-1,471
(14)	23812	Structural Steel & Precast Concrete Contractors	3,897	9.31%	6.57%	-2.7%	-107	373	13.70%	4.02%	-9.7%	-36	810	17.80%	7.65%	-10.2%	-82
(15)	23813	Framing Contractors	6,889	9.31%	1.76%	-7.6%	-520	867	13.70%	0.92%	-12.8%	-111	2,430	17.80%	1.65%	-16.2%	-392
(16)	23814	Masonry Contractors	5,673	9.31%	5.54%	-3.8%	-214	536	13.70%	6.34%	-7.4%	-39	5,928	17.80%	6.24%	-11.6%	-685
(17)	23815	Glass & Glazing Contractors	1,911	9.31%	9.73%	0.4%	8	352	13.70%	11.65%	-2.1%	-7	665	17.80%	9.02%	-8.8%	-58

(18)	23816	Roofing Contractors	7,987	9.31%	5.98%	-3.3%	-266	1,747	13.70%	6.41%	-7.3%	-127	5,952	17.80%	6.52%	-11.3%	-671
(19)	23817	Siding Contractors	227	9.31%	3.96%	-5.4%	-12	146	13.70%	8.90%	-4.8%	-7	108	17.80%	14.81%	-3.0%	-3
(20)	23819	Other Foundation, Structure, & Bldg. Exterior Contractors	3,062	9.31%	3.63%	-5.7%	-174	1,283	13.70%	3.74%	-10.0%	-128	2,405	17.80%	3.91%	-13.9%	-334
(21)	23821	Electrical & Other Wiring Installation Contractors	50,293	9.31%	6.80%	-2.5%	-1,262	5,204	13.70%	10.59%	-3.1%	-162	8,887	17.80%	8.37%	-9.4%	-838
(22)	23822	Plumbing, Heating, & Air Conditioning Contractors	45,385	9.31%	5.15%	-4.2%	-1,888	6,006	13.70%	8.31%	-5.4%	-324	9,478	17.80%	11.22%	-6.6%	-624
(23)	23829	Other Building Equipment Contractoirs	7,917	9.31%	5.46%	-3.9%	-305	3,168	13.70%	13.86%	0.2%	5	2,903	17.80%	11.47%	-6.3%	-184
(24)	23831	Drywall & Insulation Contractors	30,462	9.31%	2.97%	-6.3%	-1,931	6,479	13.70%	5.28%	-8.4%	-546	8,264	17.80%	4.34%	-13.5%	-1,112
(25)	23832	Painting & Wall Covering Contractors	5,178	9.31%	6.23%	-3.1%	-159	443	13.70%	9.93%	-3.8%	-17	1,271	17.80%	5.82%	-12.0%	-152
(26)	23833	Flooring Contractors	925	9.31%	4.43%	-4.9%	-45	99	13.70%	11.11%	-2.6%	-3	768	17.80%	4.04%	-13.8%	-106
(27)	23834	Tile & Terrazzo Contractors	744	9.31%	1.08%	-8.2%	-61	16	13.70%	6.25%	-7.5%	-1	313	17.80%	0.64%	-17.2%	-54
(28)	23835	Finish Carpentry Contractors	943	9.31%	2.12%	-7.2%	-68	198	13.70%	3.03%	-10.7%	-21	161	17.80%	11.80%	-6.0%	-10
(29)	23839	Other Building Finishing Contractors	2,710	9.31%	8.41%	-0.9%	-24	289	13.70%	8.65%	-5.1%	-15	1,213	17.80%	16.41%	-1.4%	-17
(30)	23891	Site Preparation Contractors	6,310	9.31%	8.56%	-0.8%	-47	5,083	13.70%	7.97%	-5.7%	-291	6,287	17.80%	8.49%	-9.3%	-585
(31)	23899	All Other Specialty Trade Contractors	156,860	9.31%	6.08%	-3.2%	-5,067	36,278	13.70%	9.36%	-4.3%	-1,574	53,101	17.80%	8.33%	-9.5%	-5,029
			Number of the 27 Sub Sectors with Shortfall:					Numbe	er of the 27 Su	b Sectors wit	h Shortfall:	25	Numbe	er of the 27 Su	b Sectors wit	h Shortfall:	27
			% of the 27 Sub Sectors with Shortfall:					q	% of the 27 Su	b Sectors wit	h Shortfall:	92.6%	0	6 of the 27 Su	b Sectors wit	h Shortfall:	100.0%

Source: EEOC, *Job Patterns for Minorities and Women in Private Industry (EEO-1), 2008,* at <u>http://www.eeoc.gov/statistics/employment/jobpat-eeo1/2008</u>, downloaded June 10, 2010.

* Comparison sectors = agriculture, mining, utilities, manufacturing, transportation, and warehousing.

Appendix Table C.3 Shortfalls of Non-African American Racial Minorities ** in Craft Workers, Operatives, and Laborers at Construction Firms Filing EEO-1 Reports, 2008

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)
				C	raft Workers (Skilled)					Operatives Semi-Skilled)					Laborers (Unskilled)		
	NAICS Code	Construction Sector	Number of Employees in this	% Minority in Compa- rison	% Minority in this Sector	(-=s	ortfall hortfall, ongfall)	Number of Employees in this	% Minority in Compa- rison	% Minority in this Sector	(-=s	ortfall hortfall, ongfall)	Number of Employees in this	% Minority in Compa- rison	% Minority in this Sector	(- = s	ortfall shortfall, ongfall)
			Sector	Sectors *	000101	%	Number	Sector	Sectors *	000101	%	Number	Sector	Sectors *	000101	%	Number
(1)	23	All Construction	631,337	4.24%	2.78%	-1.5%	-9,218	165,524	5.56%	2.89%	-2.7%	-4,426	261,066	5.52%	2.31%	-3.2%	-8,390
(2)	236	Construction of Buildings	145,663	4.24%	3.03%	-1.2%	-1,760	165,524	5.56%	2.92%	-2.6%	-4,372	261,066	5.52%	2.62%	-2.9%	-7,567
(3)	237	Heavy and Civil Engineering	135,504	4.24%	2.38%	-1.9%	-2,522	165,524	5.56%	2.90%	-2.7%	-4,409	261,066	5.52%	3.05%	-2.5%	-6,437
(4)	238	Specialty Trade Contractors	350,170	4.24%	2.38%	-1.9%	-6,512	165,524	5.56%	2.55%	-3.0%	-4,978	261,066	5.52%	2.11%	-3.4%	-8,910
(5)	23621	Industrial Building Construction	26,990	4.24%	3.31%	-0.9%	-251	6,487	5.56%	2.70%	-2.9%	-186	7,590	5.52%	3.00%	-2.5%	-191
(6)	23622	Commercial & Institutional Building Construction	100,351	4.24%	2.68%	-1.6%	-1,565	14,993	5.56%	2.14%	-3.4%	-513	41,656	5.52%	2.13%	-3.4%	-1,412
(7)	23711	Water & Sewer Line Construction	11,071	4.24%	3.15%	-1.1%	-121	5,395	5.56%	2.99%	-2.6%	-139	10,042	5.52%	3.98%	-1.5%	-155
(8)	23712	Oil and Gas Pipeline Construction	4,499	4.24%	2.60%	-1.6%	-74	1,428	5.56%	2.45%	-3.1%	-44	3,126	5.52%	1.41%	-4.1%	-128
(9)	23713	Power & Communications Line Construction	17,115	4.24%	3.09%	-1.2%	-197	4,017	5.56%	3.16%	-2.4%	-96	5,323	5.52%	1.85%	-3.7%	-195
(10)	23721	Land Subdivision	1,057	4.24%	4.16%	-0.1%	-1	1,166	5.56%	1.47%	-4.1%	-48	1,639	5.52%	2.32%	-3.2%	-52
(11)	23731	Highway, Street & Bridge Construction	50,889	4.24%	2.42%	-1.8%	-926	41,933	5.56%	2.52%	-3.0%	-1,275	41,823	5.52%	2.39%	-3.1%	-1,309
(12)	23799	Other Heavy & Civil Engineering Construction	50,873	4.24%	3.31%	-0.9%	-473	16,184	5.56%	3.92%	-1.6%	-265	19,343	5.52%	2.55%	-3.0%	-574
(13)	23811	Poured Concrete Foundation & Structure Construction	12,797	4.24%	1.64%	-2.6%	-333	1,989	5.56%	0.70%	-4.9%	-97	10,937	5.52%	0.74%	-4.8%	-523
(14)	23812	Structural Steel & Precast Concrete Contractors	3,897	4.24%	4.32%	0.1%	3	373	5.56%	5.10%	-0.5%	-2	810	5.52%	0.37%	-5.2%	-42
(15)	23813	Framing Contractors	6,889	4.24%	0.87%	-3.4%	-232	867	5.56%	1.05%	-4.5%	-39	2,430	5.52%	0.83%	-4.7%	-114
(16)	23814	Masonry Contractors	5,673	4.24%	9.40%	5.2%	293	536	5.56%	1.87%	-3.7%	-20	5,928	5.52%	2.42%	-3.1%	-184
(17)	23815	Glass & Glazing Contractors	1,911	4.24%	2.08%	-2.2%	-41	352	5.56%	3.40%	-2.2%	-8	665	5.52%	2.10%	-3.4%	-23

(18)	23816	Roofing Contractors	7,987	4.24%	2.43%	-1.8%	-145	1,747	5.56%	2.92%	-2.6%	-46	5,952	5.52%	2.07%	-3.5%	-205
(19)	23817	Siding Contractors	227	4.24%	0.88%	-3.4%	-8	146	5.56%	0.68%	-4.9%	-7	108	5.52%	1.86%	-3.7%	-4
(20)	23819	Other Foundation, Structure, & Bldg. Exterior Contractors	3,062	4.24%	2.53%	-1.7%	-52	1,283	5.56%	18.62%	13.1%	168	2,405	5.52%	2.03%	-3.5%	-84
(21)	23821	Electrical & Other Wiring Installation Contractors	50,293	4.24%	2.63%	-1.6%	-810	5,204	5.56%	2.17%	-3.4%	-176	8,887	5.52%	1.71%	-3.8%	-339
(22)	23822	Plumbing, Heating, & Air Conditioning Contractors	45,385	4.24%	2.68%	-1.6%	-708	6,006	5.56%	2.10%	-3.5%	-208	9,478	5.52%	1.97%	-3.6%	-336
(23)	23829	Other Building Equipment Contractoirs	7,917	4.24%	1.60%	-2.6%	-209	3,168	5.56%	1.30%	-4.3%	-135	2,903	5.52%	1.93%	-3.6%	-104
(24)	23831	Drywall & Insulation Contractors	30,462	4.24%	1.97%	-2.3%	-691	6,479	5.56%	1.18%	-4.4%	-284	8,264	5.52%	0.99%	-4.5%	-374
(25)	23832	Painting & Wall Covering Contractors	5,178	4.24%	2.51%	-1.7%	-90	443	5.56%	7.23%	1.7%	7	1,271	5.52%	1.02%	-4.5%	-57
(26)	23833	Flooring Contractors	925	4.24%	1.30%	-2.9%	-27	99	5.56%	4.04%	-1.5%	-2	768	5.52%	1.69%	-3.8%	-29
(27)	23834	Tile & Terrazzo Contractors	744	4.24%	1.61%	-2.6%	-20	16	5.56%	0.00%	-5.6%	-1	313	5.52%	2.56%	-3.0%	-9
(28)	23835	Finish Carpentry Contractors	943	4.24%	9.87%	5.6%	53	198	5.56%	2.03%	-3.5%	-7	161	5.52%	0.62%	-4.9%	-8
(29)	23839	Other Building Finishing Contractors	2,710	4.24%	1.21%	-3.0%	-82	289	5.56%	2.10%	-3.5%	-10	1,213	5.52%	2.55%	-3.0%	-36
(30)	23891	Site Preparation Contractors	6,310	4.24%	1.49%	-2.8%	-174	5,083	5.56%	0.99%	-4.6%	-232	6,287	5.52%	0.89%	-4.6%	-291
(31)	23899	All Other Specialty Trade Contractors	156,860	4.24%	2.93%	-1.3%	-2,055	36,278	5.56%	3.69%	-1.9%	-678	53,101	5.52%	2.89%	-2.6%	-1,397
			Numbe	er of the 27 Su	b Sectors wit	h Shortfall:	24	Numbe	r of the 27 Su	b Sectors wit	h Shortfall:	25	Numbe	er of the 27 Su	b Sectors wit	h Shortfall:	27
			9/	6 of the 27 Su	b Sectors wit	h Shortfall:	88.9%	9	6 of the 27 St	b Sectors wit	h Shortfall:	92.6%	9	6 of the 27 Su	b Sectors wit	h Shortfall:	100.0%
		-															

Source: EEOC, Job Patterns for Minorities and Women in Private Industry (EEO-1), 2008, at <u>http://www.eeoc.gov/statistics/employment/jobpat-eeo1/2008</u>, downloaded June 10, 2010.

* Comparison sectors = agriculture, mining, utilities, manufacturing, transportation, and warehousing.
 ** Non-African American Racial minorities = Asians, American Indians, Hawaiians, and Two or More Races.

Appendix Table C.4 White Shortfalls in Craft Workers, Operatives, and Laborers at Construction Firms Filing EEO-1 Reports, 2008

ī	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)
				Cr	aft Workers (Skilled)					Operatives Semi-Skilled)					Laborers (Unskilled)		
	NAICS Code	Construction Sector	Number of Employees in this	% White. in Compa- rison	% White in this Sector	(- = s	ortfall hortfall, ongfall)	Number of Employees in this	% White. in Compa- rison	% White in this Sector	(-=s	ortfall hortfall, ongfall)	Number of Employees in this	% White. in Compa- rison	% White in this Sector	(-=s	ortfall hortfall, ongfall)
			Sector	Sectors *		%	Number	Sector	Sectors *		%	Number	Sector	Sectors *		%	Number
(1)	23	All Construction	631,337	74.81%	64.06%	-10.8%	-67,869	165,524	64.32%	59.93%	-4.4%	-7,267	261,066	43.62%	42.83%	-0.8%	-2,062
(2)	236	Construction of Buildings	145,663	74.81%	64.20%	-10.6%	-15,455	165,524	64.32%	57.15%	-7.2%	-11,868	261,066	43.62%	44.47%	0.9%	2,219
(3)	237	Heavy and Civil Engineering	135,504	74.81%	63.61%	-11.2%	-15,176	165,524	64.32%	66.13%	1.8%	2,996	261,066	43.62%	47.84%	4.2%	11,017
(4)	238	Specialty Trade Contractors	350,170	74.81%	64.17%	-10.6%	-37,258	165,524	64.32%	54.76%	-9.6%	-15,824	261,066	43.62%	38.70%	-4.9%	-12,844
(5)	23621	Industrial Building Construction	26,990	74.81%	70.46%	-4.4%	-1,174	6,487	64.32%	57.44%	-6.9%	-446	7,590	43.62%	48.66%	5.0%	383
(6)	23622	Commercial & Institutional Building Construction	100,351	74.81%	65.10%	-9.7%	-9,744	14,993	64.32%	58.77%	-5.6%	-832	41,656	43.62%	46.88%	3.3%	1,358
(7)	23711	Water & Sewer Line Construction	11,071	74.81%	62.38%	-12.4%	-1,376	5,395	64.32%	53.75%	-10.6%	-570	10,042	43.62%	35.41%	-8.2%	-824
(8)	23712	Oil and Gas Pipeline Construction	4,499	74.81%	65.21%	-9.6%	-432	1,428	64.32%	71.43%	7.1%	102	3,126	43.62%	46.07%	2.5%	77
(9)	23713	Power & Communications Line Construction	17,115	74.81%	80.23%	5.4%	928	4,017	64.32%	79.34%	15.0%	603	5,323	43.62%	55.03%	11.4%	607
(10)	23721	Land Subdivision	1,057	74.81%	55.44%	-19.4%	-205	1,166	64.32%	47.86%	-16.5%	-192	1,639	43.62%	30.87%	-12.8%	-209
(11)	23731	Highway, Street & Bridge Construction	50,889	74.81%	61.24%	-13.6%	-6,906	41,933	64.32%	69.59%	5.3%	2,210	41,823	43.62%	51.30%	7.7%	3,212
(12)	23799	Other Heavy & Civil Engineering Construction	50,873	74.81%	60.69%	-14.1%	-7,183	16,184	64.32%	58.64%	-5.7%	-919	19,343	43.62%	46.58%	3.0%	573
(13)	23811	Poured Concrete Foundation & Structure Construction	12,797	74.81%	30.49%	-44.3%	-5,672	1,989	64.32%	21.72%	-42.6%	-847	10,937	43.62%	18.46%	-25.2%	-2,752
(14)	23812	Structural Steel & Precast Concrete Contractors	3,897	74.81%	68.36%	-6.5%	-251	373	64.32%	36.73%	-27.6%	-103	810	43.62%	34.20%	-9.4%	-76
(15)	23813	Framing Contractors	6,889	74.81%	35.64%	-39.2%	-2,698	867	64.32%	21.34%	-43.0%	-373	2,430	43.62%	20.00%	-23.6%	-574
(16)	23814	Masonry Contractors	5,673	74.81%	43.17%	-31.6%	-1,795	536	64.32%	47.76%	-16.6%	-89	5,928	43.62%	22.67%	-21.0%	-1,242
(17)	23815	Glass & Glazing Contractors	1,911	74.81%	65.41%	-9.4%	-180	352	64.32%	48.30%	-16.0%	-56	665	43.62%	39.40%	-4.2%	-28

(18)	23816	Roofing Contractors	7,987	74.81%	38.54%	-36.3%	-2,897	1,747	64.32%	43.16%	-21.2%	-370	5,952	43.62%	22.85%	-20.8%	-1,236
(10)	20010	Rooming Contractors	1,501	74.0170	00.0470	00.070	2,007	1,141	04.0270	40.1070	21.270	010	0,002	40.0270	22.0070	20.070	1,200
(19)	23817	Siding Contractors	227	74.81%	83.70%	8.9%	20	146	64.32%	73.97%	9.7%	14	108	43.62%	74.07%	30.5%	33
(20)	23819	Other Foundation, Structure, & Bldg. Exterior Contractors	3,062	74.81%	39.35%	-35.5%	-1,086	1,283	64.32%	47.86%	-16.5%	-211	2,405	43.62%	22.87%	-20.8%	-499
(21)	23821	Electrical & Other Wiring Installation Contractors	50,293	74.81%	75.83%	1.0%	513	5,204	64.32%	70.14%	5.8%	303	8,887	43.62%	55.56%	11.9%	1,061
(22)	23822	Plumbing, Heating, & Air Conditioning Contractors	45,385	74.81%	78.58%	3.8%	1,711	6,006	64.32%	71.98%	7.7%	460	9,478	43.62%	54.58%	11.0%	1,039
(23)	23829	Other Building Equipment Contractoirs	7,917	74.81%	84.30%	9.5%	751	3,168	64.32%	72.29%	8.0%	252	2,903	43.62%	69.72%	26.1%	758
(24)	23831	Drywall & Insulation Contractors	30,462	74.81%	38.72%	-36.1%	-10,994	6,479	64.32%	33.68%	-30.6%	-1,985	8,264	43.62%	21.13%	-22.5%	-1,859
(25)	23832	Painting & Wall Covering Contractors	5,178	74.81%	43.38%	-31.4%	-1,627	443	64.32%	23.70%	-40.6%	-180	1,271	43.62%	24.08%	-19.5%	-248
(26)	23833	Flooring Contractors	925	74.81%	67.78%	-7.0%	-65	99	64.32%	52.53%	-11.8%	-12	768	43.62%	45.57%	2.0%	15
(27)	23834	Tile & Terrazzo Contractors	744	74.81%	36.18%	-38.6%	-287	16	64.32%	43.75%	-20.6%	-3	313	43.62%	12.78%	-30.8%	-97
(28)	23835	Finish Carpentry Contractors	943	74.81%	56.20%	-18.6%	-175	198	64.32%	22.73%	-41.6%	-82	161	43.62%	39.13%	-4.5%	-7
(29)	23839	Other Building Finishing Contractors	2,710	74.81%	63.32%	-11.5%	-311	289	64.32%	78.20%	13.9%	40	1,213	43.62%	27.12%	-16.5%	-200
(30)	23891	Site Preparation Contractors	6,310	74.81%	72.28%	-2.5%	-160	5,083	64.32%	60.55%	-3.8%	-192	6,287	43.62%	39.32%	-4.3%	-270
(31)	23899	All Other Specialty Trade Contractors	156,860	74.81%	67.16%	-7.7%	-12,000	36,278	64.32%	55.18%	-9.1%	-3,316	53,101	43.62%	43.97%	0.4%	186
			Numbe	r of the 27 Su	b Sectors wit	h Shortfall:	22	Numbe	er of the 27 Su	b Sectors with	h Shortfall:	19	Numbe	er of the 27 Su	b Sectors wit	h Shortfall:	15
			9	6 of the 27 Su	b Sectors wit	h Shortfall:	81.5%	9	% of the 27 Su	b Sectors with	h Shortfall:	70.4%	9	% of the 27 Su	b Sectors wit	h Shortfall:	55.6%

Source: EEOC, Job Patterns for Minorities and Women in Private Industry (EEO-1), 2008, at <u>http://www.eeoc.gov/statistics/employment/jobpat-eeo1/2008</u>, downloaded June 10, 2010.

* Comparison sectors = agriculture, mining, utilities, manufacturing, transportation, and warehousing.

Appendix Table C.5 Hispanic Shortfalls in Craft Workers, Operatives, and Laborers at Construction Firms Filing EEO-1 Reports, 2008

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)	(q)
				Cr	aft Workers (Skilled)					Operatives Semi-Skilled)					Laborers (Unskilled)		
	NAICS Code	Construction Sector	Number of Employees in this	% Hisp. in Compa- rison	% Hisp. in this Sector	(- = s	ortfall hortfall, ongfall)	Number of Employees in this	% Hisp. in Compa- rison	% Hisp. in this Sector	(- = s	ortfall hortfall, ongfall)	Number of Employees in this	% Hisp. in Compa- rison	% Hisp. in this Sector	(-=s	ortfall hortfall, ongfall)
			Sector	Sectors *	000101	%	Number	Sector	Sectors *	000101	%	Number	Sector	Sectors *	000101	%	Number
(1)	23	All Construction	631,337	11.63%	27.16%	15.5%	98,047	165,524	16.41%	27.58%	11.2%	18,489	261,066	33.07%	45.46%	12.4%	32,346
(2)	236	Construction of Buildings	145,663	11.63%	27.63%	16.0%	23,310	165,524	16.41%	28.97%	12.6%	20,793	261,066	33.07%	42.28%	9.2%	24,038
(3)	237	Heavy and Civil Engineering	135,504	11.63%	25.64%	14.0%	18,978	165,524	16.41%	21.07%	4.7%	7,714	261,066	33.07%	38.89%	5.8%	15,194
(4)	238	Specialty Trade Contractors	350,170	11.63%	27.56%	15.9%	55,767	165,524	16.41%	33.56%	17.2%	28,393	261,066	33.07%	51.58%	18.5%	48,312
(5)	23621	Industrial Building Construction	26,990	11.63%	20.23%	8.6%	2,321	6,487	16.41%	22.78%	6.4%	413	7,590	33.07%	35.02%	2.0%	148
(6)	23622	Commercial & Institutional Building Construction	100,351	11.63%	27.19%	15.6%	15,615	14,993	16.41%	29.83%	13.4%	2,012	41,656	33.07%	40.79%	7.7%	3,216
(7)	23711	Water & Sewer Line Construction	11,071	11.63%	29.16%	17.5%	1,941	5,395	16.41%	36.57%	20.2%	1,088	10,042	33.07%	54.63%	21.6%	2,165
(8)	23712	Oil and Gas Pipeline Construction	4,499	11.63%	21.29%	9.7%	435	1,428	16.41%	14.57%	-1.8%	-26	3,126	33.07%	44.40%	11.3%	354
(9)	23713	Power & Communications Line Construction	17,115	11.63%	12.16%	0.5%	91	4,017	16.41%	11.13%	-5.3%	-212	5,323	33.07%	35.62%	2.6%	136
(10)	23721	Land Subdivision	1,057	11.63%	24.60%	13.0%	137	1,166	16.41%	37.05%	20.6%	241	1,639	33.07%	58.57%	25.5%	418
(11)	23731	Highway, Street & Bridge Construction	50,889	11.63%	27.13%	15.5%	7,888	41,933	16.41%	17.23%	0.8%	344	41,823	33.07%	35.12%	2.1%	857
(12)	23799	Other Heavy & Civil Engineering Construction	50,873	11.63%	28.32%	16.7%	8,491	16,184	16.41%	27.76%	11.4%	1,837	19,343	33.07%	37.20%	4.1%	799
(13)	23811	Poured Concrete Foundation & Structure Construction	12,797	11.63%	63.73%	52.1%	6,667	1,989	16.41%	72.60%	56.2%	1,118	10,937	33.07%	76.45%	43.4%	4,744
(14)	23812	Structural Steel & Precast Concrete Contractors	3,897	11.63%	20.76%	9.1%	356	373	16.41%	54.16%	37.8%	141	810	33.07%	57.78%	24.7%	200
(15)	23813	Framing Contractors	6,889	11.63%	62.10%	50.5%	3,477	867	16.41%	76.70%	60.3%	523	2,430	33.07%	77.53%	44.5%	1,080
(16)	23814	Masonry Contractors	5,673	11.63%	47.26%	35.6%	2,021	536	16.41%	44.03%	27.6%	148	5,928	33.07%	68.67%	35.6%	2,110
(17)	23815	Glass & Glazing Contractors	1,911	11.63%	22.76%	11.1%	213	352	16.41%	36.65%	20.2%	71	665	33.07%	49.47%	16.4%	109

(18)	23816	Roofing Contractors	7,987	11.63%	53.05%	41.4%	3,308	1,747	16.41%	47.51%	31.1%	543	5,952	33.07%	68.57%	35.5%	2,113
(19)	23817	Siding Contractors	227	11.63%	11.45%	-0.2%	0	146	16.41%	15.75%	-0.7%	-1	108	33.07%	9.26%	-23.8%	-26
(20)	23819	Other Foundation, Structure, & Bldg. Exterior Contractors	3,062	11.63%	54.51%	42.9%	1,313	1,283	16.41%	29.77%	13.4%	171	2,405	33.07%	71.19%	38.1%	917
(21)	23821	Electrical & Other Wiring Installation Contractors	50,293	11.63%	14.84%	3.2%	1,614	5,204	16.41%	17.10%	0.7%	36	8,887	33.07%	34.35%	1.3%	114
(22)	23822	Plumbing, Heating, & Air Conditioning Contractors	45,385	11.63%	13.60%	2.0%	894	6,006	16.41%	17.62%	1.2%	73	9,478	33.07%	32.24%	-0.8%	-79
(23)	23829	Other Building Equipment Contractoirs	7,917	11.63%	8.64%	-3.0%	-237	3,168	16.41%	12.56%	-3.9%	-122	2,903	33.07%	16.88%	-16.2%	-470
(24)	23831	Drywall & Insulation Contractors	30,462	11.63%	56.35%	44.7%	13,623	6,479	16.41%	59.87%	43.5%	2,816	8,264	33.07%	73.54%	40.5%	3,344
(25)	23832	Painting & Wall Covering Contractors	5,178	11.63%	47.89%	36.3%	1,878	443	16.41%	59.14%	42.7%	189	1,271	33.07%	69.08%	36.0%	458
(26)	23833	Flooring Contractors	925	11.63%	26.49%	14.9%	137	99	16.41%	32.32%	15.9%	16	768	33.07%	48.70%	15.6%	120
(27)	23834	Tile & Terrazzo Contractors	744	11.63%	61.16%	49.5%	369	16	16.41%	50.00%	33.6%	5	313	33.07%	84.03%	51.0%	160
(28)	23835	Finish Carpentry Contractors	943	11.63%	31.81%	20.2%	190	198	16.41%	72.22%	55.8%	111	161	33.07%	48.45%	15.4%	25
(29)	23839	Other Building Finishing Contractors	2,710	11.63%	27.05%	15.4%	418	289	16.41%	9.34%	-7.1%	-20	1,213	33.07%	53.92%	20.9%	253
(30)	23891	Site Preparation Contractors	6,310	11.63%	17.67%	6.0%	381	5,083	16.41%	30.49%	14.1%	716	6,287	33.07%	51.30%	18.2%	1,146
(31)	23899	All Other Specialty Trade Contractors	156,860	11.63%	23.84%	12.2%	19,153	36,278	16.41%	31.76%	15.4%	5,569	53,101	33.07%	44.81%	11.7%	6,234
			Numbe	er of the 27 Su	b Sectors wit	h Shortfall:	2	Numbe	er of the 27 Su	b Sectors with	h Shortfall:	5	Numbe	er of the 27 Su	b Sectors wit	h Shortfall:	3
			9	% of the 27 Su	b Sectors wit	h Shortfall:	7.4%	o	6 of the 27 Sι	b Sectors with	h Shortfall:	18.5%	0	% of the 27 Su	b Sectors wit	h Shortfall:	11.1%

Source: EEOC, Job Patterns for Minorities and Women in Private Industry (EEO-1), 2008, at <u>http://www.eeoc.gov/statistics/employment/jobpat-eeo1/2008</u>, downloaded June 10, 2010.

* Comparison sectors = agriculture, mining, utilities, manufacturing, transportation, and warehousing.

Appendix Table C.6 Employment of Women Craft, Operative, and Laborer Employees in the Construction Industry Compared to Other "Blue Collar" Industries,* EEO-1 Reports, 1975 - 2008

i	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	Job Type	Industry	Variable	1975	1980	1985	1990	1995	2000	2008
(1)		Other Blue Collar	% of Employees	6.7%	9.1%	8.8%	9.3%	9.6%	10.7%	11.6%
(2)		Construction of	% of Employees	0.4%	1.8%	1.7%	2.7%	1.7%	1.6%	1.8%
(3)		Buildings	Difference	-6.3%	-7.3%	-7.2%	-6.6%	-7.9%	-9.1%	-9.9%
(4)		Heavy	% of Employees	0.3%	1.0%	1.2%	1.9%	2.4%	2.5%	2.3%
(5)	Craft	Construction	Difference	-6.3%	-8.1%	-7.6%	-7.5%	-7.3%	-8.2%	-9.3%
(6)		Specialty Trade	% of Employees	0.7%	0.6%	1.1%	1.7%	2.1%	1.7%	1.6%
(7)		Contractors	Difference	-5.9%	-8.5%	-7.7%	-7.6%	-7.5%	-9.1%	-10.0%
(8)		All Construction	% of Employees	0.5%	1.0%	1.3%	2.1%	2.1%	1.9%	1.8%
(9)		All Construction	Difference	-6.1%	-8.1%	-7.5%	-7.3%	-7.5%	-8.8%	-9.8%
(10)		Other Blue Collar	% of Employees	30.6%	33.4%	35.2%	33.8%	32.1%	29.4%	31.0%
(11)		Construction of	% of Employees	2.1%	5.0%	7.5%	7.9%	5.4%	4.8%	5.4%
(12)		Buildings	Difference	-28.5%	-28.4%	-27.7%	-25.8%	-26.6%	-24.5%	-25.7%
(13)		Heavy	% of Employees	0.8%	2.8%	3.9%	4.0%	3.9%	4.5%	3.6%
(14)	Operatives	Construction	Difference	-29.8%	-30.7%	-31.3%	-29.8%	-28.2%	-24.9%	-27.4%
(15)		Specialty Trade	% of Employees	5.1%	13.2%	14.6%	9.0%	7.0%	4.5%	2.6%
(16)		Contractors	Difference	-25.5%	-20.2%	-20.6%	-24.8%	-25.1%	-24.9%	-28.4%
(17)		All Construction	% of Employees	2.2%	6.7%	8.5%	6.9%	5.5%	4.4%	3.4%
(18)			Difference	-28.4%	-26.7%	-26.6%	-26.9%	-26.6%	-24.9%	-27.6%
(19)		Other Blue Collar	% of Employees	31.6%	34.8%	35.6%	31.5%	35.3%	35.0%	35.6%
(20)		Construction of	% of Employees	0.4%	1.8%	1.7%	2.7%	1.7%	1.6%	3.9%
(21)		Buildings	Difference	-31.2%	-33.0%	-34.0%	-28.8%	-33.6%	-33.3%	-31.8%
(22)		Heavy	% of Employees	0.3%	1.0%	1.2%	1.9%	2.4%	2.5%	6.2%
(23)	Laborers	Construction	Difference	-31.2%	-33.9%	-34.4%	-29.7%	-32.9%	-32.4%	-29.4%
(24)		Specialty Trade	% of Employees	0.7%	0.6%	1.1%	1.7%	2.1%	1.7%	3.2%
(25)		Contractors	Difference	-30.8%	-34.3%	-34.5%	-29.8%	-33.2%	-33.3%	-32.4%
(26)		All Construction	% of Employees	1.7%	4.1%	6.6%	7.6%	6.7%	5.9%	4.3%
(27)			Difference	-29.9%	-30.7%	-29.0%	-23.9%	-28.6%	-29.1%	-31.4%

* For 1975-2000, Other "Blue Collar" industries = Farming, Fishing, & Forestry; Mining, Oil & Gas Extraction, & Quarrying; Manufacturing; and Transportation & Warehousing (all SICs 001- 400, excluding Construction). Figure for 2008 created by extrapolation from 1975-2000.

Appendix Table C.7 Employment of African American Craft, Operative, and Laborer Employees in the Construction Industry Compared to Other "Blue Collar" Industries,* EEO-1 Reports, 1975 - 2008

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	Job Type	Industry	Variable	1975	1980	1985	1990	1995	2000	2008
(1)		Other Blue Collar	% of Employees	6.8%	8.4%	8.8%	9.1%	9.4%	9.8%	10.9%
(2)		Construction of	% of Employees	7.6%	7.3%	8.8%	8.5%	6.5%	6.3%	5.1%
(3)		Buildings	Difference	0.7%	-1.0%	-0.1%	-0.7%	-2.8%	-3.5%	-5.7%
(4)		Heavy	% of Employees	12.0%	11.8%	11.9%	10.3%	9.1%	8.9%	7.8%
(5)	Craft	Construction	Difference	5.2%	3.4%	3.1%	1.1%	-0.3%	-0.9%	-3.0%
(6)		Specialty Trade	% of Employees	4.7%	4.9%	5.3%	6.0%	6.1%	6.4%	5.7%
(7)		Contractors	Difference	-2.2%	-3.4%	-3.6%	-3.2%	-3.3%	-3.4%	-5.2%
(8)		All Construction	% of Employees	7.7%	7.3%	7.9%	7.9%	7.0%	7.1%	6.0%
(9)			Difference	0.8%	-1.1%	-0.9%	-1.2%	-2.4%	-2.8%	-4.9%
(10)		Other Blue Collar	% of Employees	15.2%	16.1%	16.9%	17.2%	17.2%	16.7%	17.9%
(11)		Construction of	% of Employees	13.6%	18.0%	12.4%	12.0%	11.5%	9.1%	9.9%
(12)		Buildings	Difference	-1.6%	1.9%	-4.5%	-5.3%	-5.7%	-7.6%	-7.9%
(13)		Heavy	% of Employees	17.0%	16.9%	16.6%	17.8%	14.3%	12.1%	9.9%
(14)	Operatives	Construction	Difference	1.8%	0.7%	-0.3%	0.6%	-2.9%	-4.6%	-7.9%
(15)		Specialty Trade	% of Employees	12.4%	12.0%	11.8%	12.8%	12.3%	10.7%	8.6%
(16)		Contractors	Difference	-2.7%	-4.1%	-5.0%	-4.5%	-4.9%	-6.0%	-9.2%
(17)		All Construction	% of Employees	15.0%	15.7%	13.9%	14.5%	13.0%	11.1%	9.6%
(18)			Difference	-0.1%	-0.5%	-3.0%	-2.7%	-4.2%	-5.6%	-8.3%
(19)		Other Blue Collar	% of Employees	19.4%	18.7%	18.7%	19.0%	19.2%	19.2%	19.1%
(20)			% of Employees	33.3%	26.9%	25.4%	23.5%	17.3%	12.9%	10.3%
(21)		Buildings	Difference	13.9%	8.2%	6.7%	4.4%	-1.9%	-6.3%	-8.9%
(22)		Heavy	% of Employees	27.9%	27.0%	24.0%	24.4%	18.0%	14.3%	10.7%
(23)	Laborers	Construction	Difference	8.5%	8.3%	5.4%	5.4%	-1.2%	-4.9%	-8.4%
(24)			% of Employees	28.0%	25.6%	20.9%	16.1%	18.0%	15.5%	7.6%
(25)		Contractors	Difference	8.5%	6.8%	2.3%	-3.0%	-1.2%	-3.8%	-11.5%
(26)			% of Employees	29.7%	26.7%	23.8%	21.9%	17.9%	14.4%	9.2%
(27)			Difference	10.2%	8.0%	5.1%	2.9%	-1.3%	-4.8%	-10.0%

* For 1975-2000, Other "Blue Collar" industries = Farming, Fishing, & Forestry; Mining, Oil & Gas Extraction, & Quarrying; Manufacturing; and Transportation & Warehousing (all SICs 001- 400, excluding Construction). Figure for 2008 created by extrapolation from 1975-2000.

Appendix Table C.8 Employment of Asian + American Indian Craft, Operative, and Laborer Employees in the Construction Industry Compared to Other "Blue Collar" Industries,* EEO-1 Reports, 1975 - 2008

_	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
(1)	Job Type	Industry	Variable	1975	1980	1985	1990	1995	2000	2008
(2)		Other Blue Collar	% of Employees	0.7%	1.7%	1.5%	1.9%	2.2%	3.2%	3.6%
(3)		Construction of	% of Employees	1.1%	1.1%	2.2%	1.7%	1.9%	1.6%	3.0%
(4)		Buildings	Difference	0.4%	-0.6%	0.6%	-0.3%	-0.3%	-1.6%	-0.6%
(5)		Heavy	% of Employees	1.4%	1.7%	2.1%	1.5%	2.5%	2.2%	2.9%
(6)	Craft	Construction	Difference	0.7%	0.0%	0.6%	-0.4%	0.3%	-1.0%	-0.7%
(7)		Specialty Trade	% of Employees	1.2%	1.2%	1.2%	1.4%	1.7%	2.0%	2.6%
(8)		Contractors	Difference	0.5%	-0.5%	-0.3%	-0.5%	-0.5%	-1.2%	-1.0%
(9)		All Construction	% of Employees	1.2%	1.3%	1.7%	1.5%	2.1%	2.0%	2.8%
(10)			Difference	0.5%	-0.4%	0.2%	-0.4%	-0.1%	-1.2%	-0.8%
(11)		Other Blue Collar	% of Employees	0.8%	1.6%	2.3%	2.9%	3.7%	5.0%	6.0%
(12)		Construction of	% of Employees	1.7%	0.9%	3.2%	1.8%	2.2%	1.6%	2.4%
(13)		Buildings	Difference	0.9%	-0.7%	0.9%	-1.1%	-1.5%	-3.4%	-3.6%
(14)		Heavy	% of Employees	1.4%	1.7%	1.3%	1.6%	2.0%	2.4%	2.9%
(15)	Operatives	Construction	Difference	0.6%	0.1%	-1.0%	-1.3%	-1.7%	-2.6%	-3.1%
(16)		Specialty Trade	% of Employees	0.9%	2.4%	2.7%	1.8%	2.2%	2.4%	3.1%
(17)		Contractors	Difference	0.1%	0.8%	0.4%	-1.1%	-1.5%	-2.6%	-3.0%
(18)		All Construction	% of Employees	1.3%	1.7%	2.2%	1.7%	2.1%	2.3%	2.9%
(19)			Difference	0.5%	0.1%	0.0%	-1.2%	-1.6%	-2.7%	-3.1%
(20)		Other Blue Collar	% of Employees	1.0%	1.7%	2.3%	3.1%	4.0%	4.6%	5.8%
(21)		Construction of	% of Employees	1.2%	0.8%	1.3%	1.9%	1.9%	1.8%	3.0%
(22)		Buildings	Difference	0.3%	-0.9%	-1.0%	-1.2%	-2.1%	-2.7%	-2.8%
(23)		Heavy	% of Employees	1.2%	1.3%	1.3%	1.6%	2.2%	1.6%	2.6%
(24)	Laborers	Construction	Difference	0.2%	-0.4%	-1.1%	-1.5%	-1.9%	-3.0%	-3.2%
(25)		Specialty Trade	% of Employees	0.7%	1.1%	2.2%	2.0%	2.1%	1.5%	2.1%
(26)		Contractors	Difference	-0.3%	-0.6%	-0.2%	-1.1%	-1.9%	-3.0%	-3.7%
(27)			% of Employees	1.1%	1.1%	1.5%	1.8%	2.1%	1.6%	2.4%
			Difference	0.1%	-0.6%	-0.9%	-1.3%	-1.9%	-2.9%	-3.3%

* For 1975-2000, Other "Blue Collar" industries = Farming, Fishing, & Forestry; Mining, Oil & Gas Extraction, & Quarrying; Manufacturing; and Transportation & Warehousing (all SICs 001- 400, excluding Construction). Figure for 2008 created by extrapolation from 1975-2000.

In 2008, data are for Asians + American Indians/Alaska Natives + Native Hawaiian/Other Pacific Islanders =+ 2 or More Races.

Appendix Table C.9 Employment of White Craft, Operative, and Laborer Employees in the Construction Industry Compared to Other "Blue Collar" Industries,* EEO-1 Reports, 1975 - 2008

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Job Type	Firm Type	Variable	1975	1980	1985	1990	1995	2000	2008
	Other Blue Collar	% of Employees	88.8%	85.5%	84.4%	83.1%	82.2%	77.9%	76.0%
	Construction of	% of Employees	87.7%	85.1%	82.5%	83.0%	82.0%	76.0%	64.2%
	Buildings	Difference	-1.1%	-0.4%	-1.9%	-0.1%	-0.2%	-1.9%	-11.8%
	Heavy	% of Employees	81.5%	78.9%	82.5%	78.4%	55.5%	72.4%	63.6%
Craft	Construction	Difference	-7.3%	-6.6%	-1.9%	-4.7%	-26.6%	-5.5%	-12.4%
	Specialty Trade	% of Employees	90.8%	90.3%	77.7%	87.7%	84.8%	77.9%	64.2%
	Contractors	Difference	2.0%	4.9%	-6.7%	4.6%	2.6%	-0.1%	-11.8%
	All Construction	% of Employees	87.1%	86.1%	89.6%	83.7%	82.1%	76.0%	64.1%
		Difference	-1.7%	0.7%	5.2%	0.5%	-0.1%	-2.0%	-11.9%
	Other Blue Collar	% of Employees	78.6%	75.4%	73.7%	71.5%	69.7%	64.9%	62.0%
	Construction of	% of Employees	78.7%	71.7%	74.4%	77.7%	73.4%	64.2%	57.2%
	Buildings	Difference	0.1%	-3.6%	0.7%	6.2%	3.7%	-0.7%	-4.9%
	Heavy	% of Employees	74.7%	71.2%	70.5%	69.4%	72.7%	67.9%	66.1%
Operatives	Construction	Difference	-3.9%	-4.2%	-3.3%	-2.2%	3.0%	3.0%	4.1%
	Specialty Trade	% of Employees	80.3%	77.0%	75.3%	78.1%	72.2%	63.3%	54.8%
	Contractors	Difference	1.8%	1.7%	1.6%	6.6%	2.5%	-1.6%	-7.3%
	All Construction	% of Employees	77.1%	73.2%	73.1%	74.9%	72.6%	65.3%	59.9%
		Difference	-1.5%	-2.2%	-0.6%	3.4%	2.9%	0.4%	-2.1%
		% of Employees	69.7%	67.3%	67.0%	63.0%	58.0%	50.0%	47.2%
	Construction of	% of Employees	54.9%	58.7%	57.9%	58.1%	58.0%	49.8%	44.5%
	Buildings	Difference	-14.8%	-8.6%	-9.1%	-4.9%	0.1%	-0.2%	-2.7%
	Heavy	% of Employees	58.5%	53.9%	56.5%	56.9%	58.2%	50.5%	47.8%
Laborers	Construction	Difference	-11.2%	-13.4%	-10.5%	-6.1%	0.2%	0.5%	0.7%
		% of Employees	62.5%	60.6%	62.8%	69.0%	58.0%	48.2%	38.7%
	Contractors	Difference	-7.2%	-6.8%	-4.2%	6.0%	0.1%	-1.8%	-8.5%
	All Construction	% of Employees	58.0%	56.9%	58.5%	60.5%	58.1%	49.6%	42.8%
		Difference	-11.7%	-10.5%	-8.6%	-2.5%	0.1%	-0.4%	-4.3%

* For 1975-2000, Other "Blue Collar" industries = Farming, Fishing, & Forestry; Mining, Oil & Gas Extraction, & Quarrying; Manufacturing; and Transportation & Warehousing (all SICs 001- 400, excluding Construction). Figure for 2008 created by extrapolation from 1975-2000.

Source: 1975-1980: EEO-1 reports provided to the authors by the EEOC. 2008: EEOC, Job Patterns for Minorities and Women in Private Industry (EEO-1), 2008, downloaded 6/10/2010 from <u>http://www.eeoc.gov/statistics/employment/jobpat-eeo1/2008</u>.

Appendix Table C.10 Employment of Hispanic Craft, Operative, and Laborer Employees in the Construction Industry Compared to Other "Blue Collar" Industries,* EEO-1 Reports, 1975 - 2008

(a)	(b)	(C)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Job Type	Firm Type	Variable	1975	1980	1985	1990	1995	2000	2008
	Other Blue Collar	% of Employees	3.7%	5.0%	5.3%	5.8%	6.2%	9.1%	9.5%
	Construction of	% of Employees	3.7%	6.5%	6.6%	6.9%	9.5%	16.1%	27.6%
	Buildings	Difference	0.0%	1.5%	1.3%	1.1%	3.3%	7.0%	18.1%
	Heavy	% of Employees	5.2%	7.6%	8.2%	9.8%	10.9%	16.5%	25.6%
Craft	Construction	Difference	1.4%	2.6%	3.0%	4.0%	4.6%	7.4%	16.2%
	Specialty Trade	% of Employees	3.4%	3.5%	3.9%	4.9%	7.4%	14.0%	27.6%
	Contractors	Difference	-0.3%	-1.5%	-1.3%	-0.9%	1.2%	4.9%	18.1%
	All Construction	% of Employees	4.0%	5.3%	5.8%	6.9%	8.9%	15.0%	27.2%
		Difference	0.3%	0.3%	0.5%	1.1%	2.6%	6.0%	17.7%
	Other Blue Collar	% of Employees	5.5%	7.0%	7.1%	8.3%	9.4%	13.4%	14.1%
	Construction of	% of Employees	6.0%	9.3%	10.1%	8.5%	12.9%	25.0%	29.0%
	Buildings	Difference	0.6%	2.4%	3.0%	0.2%	3.5%	11.6%	14.9%
	Heavy	% of Employees	7.0%	10.2%	11.7%	10.8%	10.9%	17.6%	21.1%
Operatives	Construction	Difference	1.5%	3.3%	4.6%	2.5%	1.6%	4.2%	7.0%
	Specialty Trade	% of Employees	6.4%	8.6%	10.2%	7.4%	13.3%	23.6%	33.6%
	Contractors	Difference	0.9%	1.7%	3.0%	-1.0%	3.9%	10.2%	19.5%
	All Construction	% of Employees	6.6%	9.5%	10.8%	8.9%	12.3%	21.2%	27.6%
		Difference	1.1%	2.5%	3.6%	0.6%	2.9%	7.8%	13.5%
		% of Employees	9.9%	12.3%	12.0%	14.9%	18.8%	26.3%	27.9%
	Construction of	% of Employees	10.5%	13.6%	15.4%	16.5%	22.7%	35.5%	42.3%
	Buildings	Difference	0.6%	1.3%	3.5%	1.6%	3.9%	9.2%	14.4%
	Heavy	% of Employees	12.5%	17.8%	18.2%	17.1%	21.6%	33.7%	38.9%
Laborers	Construction	Difference	2.5%	5.5%	6.3%	2.2%	2.8%	7.4%	11.0%
	Specialty Trade	% of Employees	8.9%	12.8%	14.1%	12.9%	21.8%	34.8%	51.6%
	Contractors	Difference	-1.1%	0.6%	2.1%	-2.0%	3.0%	8.5%	23.7%
	All Construction	% of Employees	11.2%	15.3%	16.3%	15.8%	21.9%	34.4%	45.6%
		Difference	1.3%	3.1%	4.3%	0.9%	3.1%	8.2%	17.7%

* For 1975-2000, Other "Blue Collar" industries = Farming, Fishing, & Forestry; Mining, Oil & Gas Extraction, & Quarrying; Manufacturing; and Transportation & Warehousing (all SICs 001- 400, excluding Construction). Figure for 2008 created by extrapolation from 1975-2000.

Appendix Table C.11 Representation of Women and Race/Ethnic Minorities by Occupational Skill Level, Construction Industry EEO-1 Reports, 2008

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Skill Level	Women	African Americans	Asians	Amer. Ind. + Hawaiians	Two or More Races	White	Hispanic
(1)	% of Skilled Craft Workers	1.80%	6.00%	0.97%	1.33%	0.48%	64.16%	27.16%
(2)	% of Semi-Skilled Operatives	3.44%	9.60%	0.73%	2.03%	0.50%	59.93%	27.58%
(3)	% of Unskilled Laborers	4.29%	9.17%	0.70%	1.25%	0.49%	42.83%	45.56%
(4)	Row (1) / Row (3)	0.52	0.63	1.33	0.66	0.96	1.07	0.98
(5)	Row (2) / Row (3)	0.80	1.05	1.04	1.63	1.02	1.40	0.61

Source for Rows (1) - (3): EEOC, Job Patterns for Minorities and Women in Private Industry (EEO-1), 2008, downloaded 6/10/2010 from http://www.eeoc.gov/statistics/employment/jobpat-eeo1/2008.

APPENDIX D

APPENDIX D ENFORCEMENT ACTIONS

Recent litigation provides one indication of the continued presence of gender/race/ethnicity employment discrimination in the construction industry. Because of the expense, time, and disruptive effects on complainants' work lives and interpersonal relationships, only a very small fraction of all incidents of discrimination are likely to result in formal complaints or legal action of any kind, let alone suits in federal or state courts. Thus, litigation represents only the "tip of the iceberg" of discrimination activity. Nevertheless, where legal proceedings are filed and an administrative proceeding or court finds merit in their claims, these proceedings provide one form of documentation of employment discrimination within an industry.

Under Title VII of the Civil Rights Act of 1964, a first step in pursuing litigation is filing an administrative complaint with the federal Equal Employment Opportunity Commission (EEOC) or a state and local counterpart Fair Employment Practice Agency (FEPA). Appendix Table E.1 tabulates the number of charges lodged with the EEOC itself over the most recent five years, from 2005 thorough the beginning of 2010. The table includes only charges filed with the agency for which the EEOC issued a "found cause" determination that the charges appeared to have sufficient merit to justify proceeding further.

According to Table E.1, between 2005 and the present, the EEOC issued a "found cause" determination in 360 complaints in the construction industry of the type associated with the gender, race, or ethnicity discrimination which is the focus of this report. These included:

- 167 cases based on race or color discrimination;
- 137 cases alleging sex discrimination; and
- 56 cases alleging national origin discrimination.

This flow of cause determinations represents an average rate of 65 cases per year, or more than one a week.

While Table E.1 refers to complaints at the beginning of the litigation process, Appendix Table E.2 examines such allegations at later stages. The table summarizes 50 instances of litigation in which gender, race, or ethnic employment discrimination was alleged in construction and either a court ruled in favor of the plaintiffs' allegations or a case settlement of more than a nominal amount suggests that the allegations had at least some substance. The cases reported in the table were ruled on during the most recent five years, from the beginning of 2005 through the first part of 1010.

Table E.2 reports only a sample of cases from this period, drawn from those for which documentation could readily be found. However, even that limited set documents a continuing flow of such litigation. In fact, during the two most recent complete years examined -- 2008 and 2009 -- each year provided 10 or more cases, and the partial year 2010 provides seven more.

. Moreover, Table E.2 reports that the discrimination issues presented in these cases are not confined to any subset of construction employment but arose broadly across the industry. Specifically, among the 50 cases summarized in the table:

- <u>Nationwide Locations</u>: Cases arose in each of the four major geographical regions into which the Census Bureau divides the nation -- 17 in the Northeast, 15 in the Midwest, 12 in the South, and 5 in the West.
- <u>Multiple Demographic Groups</u>: The cases alleged discrimination against women (14 cases); African Americans (29 cases), Hispanics (6 cases); Asians (2 cases), and multiple or unknown demographic groups (3 cases).
- <u>A range of construction trades</u>: About half the cases involved construction craft occupations, including carpenters, dry wall installers, electricians, painters, plumbers, sheet metal workers, stone masons, and welders. The other half involved other construction occupations, including equipment operators, flaggers, helpers, laborers, and truck drivers.
- <u>Different discriminating Entity</u>: 44 cases alleged discrimination by construction employers; 6 alleged discrimination by construction unions.
- <u>Multiple Employment Practices</u>: The two most numerous complaints in the cases were for harassment (25 cases) and retaliation (21 cases). Other common complaints concerned recruitment and hiring (10 cases), work assignments or referrals (9 cases), and terminations (6 cases).

Appendix Table D.1 EEOC "Found Cause" Determinations in Employment Discrimination Charges Against Entities in the Construction Industry, Fiscal Years 2005-2010, for Charge Bases Related to Gender, Race, and Ethnicity

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
	Basis for Charge	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010 (through 5/14/10)	TOTAL	Average Annual Rate
(1)	Sex	42	26	16	21	21	11	137	25
(2)	Race or Color	48	26	21	30	29	13	167	30
(3)	National Origin	20	10	4	8	11	3	56	10
(4)	TOTAL	110	62	41	59	61	27	360	65

Sources: Columns (a)-(g): EEOC special tabulation from internal records, June 2010. Columns (h) -(i): Computed by the authors.

Appendix Table D.2 50 Instances of Litigation Concerning Race, Ethnic, or Gender Employment Discrimination in the Construction Industry with Supportive Court Findings or Substantial Settlements, 2005 - 2010

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)
					Loc	ation			Demog	graphic (Group				Employ	yment Pra	actice			Discrin	ninator	Occup	oations
	Case	Court Findings	Year	North- east	Mid- west	South	West	Women		-	Asians		ment or	•	Pay, Bene- fits, Terms	Train- ing, Appren- tice- ships	Haras- sment	Term- ina- tions	Reta- lia- tion	Emp- loyer	Union	Skilled	Less Skilled or Unknown
(1)	cv-02339 (N.D. III. May 28, 2009) (consent decree)	Illinois construction company settled race discrimination and retaliation lawsuit for \$650,000 where group of African-American employees were laid off after working for short periods of time, while white employees were retained for long-term employment, and class representative was terminated after filling complaint	2009		x				x									x	x	x		iron worker, operating engineer	
(2)	Corporation et al, 09-cv-00128- SPM-AK (N.D. Fl. March 18, 2010)	Florida construction company settled racial harassment and retaliation lawsuit for \$\$0,000 where African-American employee was discharged after complaining that white employee put hangman's noose around his neck and locked him in a tool shed, and white offender was rewarded with a higher-paying position	2010			x			x								x		x	x		concrete worker	
(3)	Co. of Pennsylvania , 08-cv- 03349 (E.D. Pa. December 1, 2009) (consent decree docketed)	Pennsylvania construction company specializing in utility industries settled sex discrimination and retailation lawsuit for \$200,000 where woman working as a flagger and other female employees were not permitted to apply for substantially higher-paying labor positions because of their sex, and company failed to provide adequate restroom facilities at the worksite, forcing women to urinate outside in public	2009	x				x					x	x	x		x			x			flagger
(4)	Inc., 07-cv-01829 (D. Ariz. March 5, 2009) (consent decree)	Arizona construction company settled national origin harassment and retaliation lawsuit for \$325,000 where Mexican- American employees were subject to anti- Hispanic slurs on a daily basis and terminated after complaining to management about the harassment	2009				x			x							x		x	x		concrete worker	laborer
(5)	JVR. 808359 (Utah State Court July 2007)(Settlement)	Utah home builder settled sex discrimination and retaliation claims for \$174,186. Seven female employees alleged that they were subjected to sexually offensive emails and jokes by the president of the company who created a hostile work environment with his harassment. One of the plaintiffs further alleged that she was wrongfully terminated in retaliation for complaining of the harassment.	2007				x	x									x		x	x			unknown
(6)	Construction, Inc. , 2:04-cv- 02730-SHM (W.D. Tennessee Dec. 2, 2006) (consent decree)	General contractor with offices throughout US agreed to pay \$93,875 to settle race discrimination lawsuit brought on behalf of black male employees who worked on the construction of the Fedex Forum in Memphis alleging that African American males were wrongfully terminated from their carpenter and laborer jobs because of their race and replaced with Hispanic workers without completed job applications, experience or qualifications.	2006			x			x									x		x		carpenter	laborer
(7)	Construction, Inc., 01-CV-5127 (E.D.N.Y. March 16, 2005) (consent decree)	New York construction company paid \$355,000 to settle sex discrimination and retaliation lawsuit where women were subjected to sexually hostile work environment, assigned cleaning and loading duties while men were assigned to jobs requiring skill such as demolition and operating electrical machinery, and denied work and refused rehire for complaining about discriminatory treatment	2005	x				x						x			x		x	x			laborer

Construction, 04-cv-6078-DDP	California refinery construction company paid \$165,000 in monetary relief and established goals for hiring women into laborer positions to settle sex discrimination lawsuit where company did not hire women for the 300 laborer positions for which it advertised	2005		x	x				x					x		laborer
(9) EEOC v. AE Sweeney Masonry, Inc., 05-CV-02577- RBD (D. Md. March 31, 2006) (consent decree)	Construction company doing business in Maryland, Pennsylvania, and Virginia paid \$60,000 to settle racial harassment and retaliation lawsuit where the only black employees were subjected to racially hostile work environment consisting of racial epithets, slurs, and comments, and subjected to less favorable terms and conditions of employment	2006	x			x						x	x	x		laborer, fork lift operator
Wis. November 23, 2005)	Wisconsin general contractor and Pennsylvania metal sheeting subcontractor settled race discrimination and retaliation lawsuit for \$275,000 where African-American employees were subject to a racially hostile work environment as evidenced in racial graffit in the port-a- johns at the construction site, supervisory personnel's use of abusive and racially derogatory language, and assignment to the most dangerous jobs, and were laid off after complaining about working conditions	2005	x			x				x		x	x	x	iron worker	
(11) EEOC v. Conectiv, et al , 05- CV-03389-TMG (E.D. Pa. May 8, 2008) (consent decree)	Pennsylvania general contractor and several y subcontractors on a power plant construction project paid \$1,650,000 in settlement of a racial harassment lawsuit where African American employees working at construction site in Bethlehem, PA were subjected to egregious racial harassment including racial slurs, graffiti, and threats by hangman's nooses	2008	x			x						x		x	iron worker	
(12) EEOC v. International Association of Bridge, Structural and Ornamental Ironworkers, Local 580, et al., 71-CV-02877 (S.D.N.Y. May 8, 2007) (consent judgment granting approval of partial settlement)	New York local of construction trade union paid \$800,000 in partial settlement of contempt action filed by EEOC charging that union failed and refused to refer nonwhite journeyperson workers on the same basis it referred its white journey workers because of their race and national origin in violation of the terms of a 1978 consent judgment and previous court orders on the referral of journeypersons	2007	x			x	x			x				x	iron worker	
 EEOC v. Washington Group International, Inc., 04-cv-12097 (D. Mass. March 17, 2008) (consent decree) 	Massachusetts construction firm paid \$1.5 million to 7 settle racial harassment and retailation lawsuit where African American workers were subjected racially offensive language and graffiti and other forms of harassment at power plant construction project in Massachusetts and retailated against them for complaining about it	2008	x			x						x	x	x		unknown
(14) EEOC v. Pace Services Inc., 08-cv-2886 (S.D. Tex. 2010) (consent decree)	Houston-area construction company to pay \$122,000 to resolve religious, race, and national origin discrimination lawsuit where employee was subjected to harassment in the workplace because he was Muslim and of East Indian descent and other employees were subject to racial harassment because they were black or Hispanic	2010		x		x	x	x				x		x		unknown
(15) EEOC v. Trans Bay Steel Corp, 06-CV-07766 (C.D. Cal. December 14, 2006) (consent decree)	Small California construction company agreed to provide monetary relief valued at approximately \$1 million to settle national origin discrimination lawsuit where some Thai welders who came to US under guest worker visas were employed by the company but not paid the prevailing wage as promised, and other Thai welders were subjected to egregious types of exploitation and discrimination	2006		x				x	x	,	¢			x	welder	
(16) EEOC v. Concrete Applied Construction Technologies Corp db/a CATCO Construction Co., 03-CV-0t701 (W.D.N.Y. November 18, 2007) (consent decree)	New York highway construction firm paid \$100,000 to settle race discrimination lawsuit where African American operating engineer applied repeatedly for employment over a six-year period but was not hired despite being fully certified	2007	x			x			x					x	operating engineer	

06-cv-2075 (N.D. III. May 22, 2009) (consent decree)	Illinois construction company paid \$500,000 to settle a race and national origin discrimination lawsuit where non-white Hispanic workers were subject to a hostile work environment, and routinely subjected to racially derogatory language and racist graffiti because of their race and national origin	2009	x	x	x	x	unknown
and L.F. Driscoll, 03-CV-5462- LDD (E.D. Pa. Feb. 24, 2005)(consent decree)	Philadelphia area masonry contractor and company that manages construction projects in the Mid-Atlantic region, paid \$75,000 to settle individual sex discrimination lawsuit brought by only female stone mason in her local bricklayers' union where charging party was subjected to sexually hostile work environment and retaliated against for complaining about the harassment in that she was evicted from job site and not hired for work on other projects. Under the 3-year consent decree the masonry contractor also agreed to reinstate the charging party was tone mason and guarantee her at least I year's work on a construction project in New Jersey		x	x	x x	x	stone mason
Tex. September 15, 2009) (consent decree)	Commercial drywall and acoustics company based in Texas paid \$60,000 in back pay and \$54,000 in compensatory damages and attorneys fees to settle sexual harassment and retailation lawsuit where female laborer was subjected to sexually explicit remarks, conduct, and grafitii for the duration of her employment and fired after she complained about it	2009	x	x	x x	x	laborer
670 F.Supp.2d 858 (E.D. Wisconsin 2009) (Consent Order January 7, 2010)	Court found evidence presented on summary judgment motion sufficient to allow retaliatory discharge case brought against Massachusetts construction contractor to proceed to trial. African-male employed as a journeyman carpenter filed complaint with EEOC complaining about job transfer and terminated two month's later. Court found EEOC had provided sufficient evidence that to infer a causal link between the carpenter's protected activity and the adverse employment action – dismissal (Case settled January, 2010 Company paid \$85,000 -\$42,500 in back pay and \$42,500 in compensatory damages)	2009	x	x	x x	x	carpenter
Inc, et al, 05-cv- 5124, 2006 WL 753241 (W.D. Wash. March 22, 2006)	Court denied defendant union's motion for summary judgment and court held that plaintiff could proceed to trial on her charge that the union discriminated against her because of sex by denying her referrals to flagging jobs, finding that prima facie case of gender discrimination by showing that she had completed the state required flagging certification course. (Case settled April 17, 2006)	2006	x	x	x	x	flagger
Construction Inc., 07-cv-577, 2008 WL 3349125 (M.D.Ala. 2008)	Court found that African American dump truck driver who brought race discrimination and relation lawsuit against Alabama construction company offered sufficient evidence to establish prima facie case that he was terminated from his position because of race and to create a question for jury as to whether defendant proffered reasons for his termination were pretextual (Case settled Sept. 16, 2008)	2008	x	x	x x	x	truck driver
Inc., 05-cv-2122, 2007 WL 1129220 (D. Minn. 2007)	Court denied summary judgment motion of Minnesota construction company engaged in concrete work, and allowed charge that Minnesota construction company engaged in a pattern or practice of national origin discrimination by subjecting Hispanic workers to hostile work environment (Consent decree July 25, 2007, company paid \$41,5000)	2007	x	x	x	x	unknown
(24) EEOC v. Rock Concrete Construction Corp., 09-cv- 1222 (S.D. Ind. Dec. 28. 2009) (consent decree)	Indiana construction company paid \$31,000 to settle retaliation lawsuit where concrete worker was not provided work because he refused to drop the discrimination lawsuit filed against his former employer	2009	x	x	x	x	concrete worker

							-		-	
(25		Michigan construction company paid \$20,000 to settle race discrimination lawsuit brought by black ironworkers alleging that company laid two of them off them and refused to hire a third because they were black	2006	x		x	x	x	x	iron worker
(26	Thomas O'Connor Constructors Inc. v. Massachusetts Commission Against Discrimination, 12 Mass. App. Ct. 549 (2008)	Massachusetts general contractor held liable under Mass. employment discrimination statute to employee of a subcontractor for racially hostile work environment created by the general contractor's job site superintendent dally use of racial epithets and ordered to pay African American employee of subcontractor \$50,000 and conduct annual harassment training for five years	2008	X		x		x	x	laborer
(27		Small commercial and residential construction company found liable under Mass. employment discrimination statute for tolerating the creation of a racially hostile work environment and retaliating against the black worker after he protested the racial comments and filed a complaint with MCAD by transferring him to another job site and subsequently terminated in his employment. No backpay award because plaintiff failed to mitigate damages by looking for employment	2009	x		x		x x	x	laborer
(28	Massachusetts Commission Against Discrimination and Mark Griffin v. Eastern Contractors, Inc. and S&R Construction Co. and Massachusetts Commission Against Discrimination and Clarence Leftwitch v. Eastern Contractors, Inc., 2008 WL 4603340 (MCAD October 8, 2008)	General contractor found liable under Mass. employment discrimination statute for tolerating racially hostile and abusive work environment and retaliation where the general contractor's site superintendent used offensive racial epithets in the presence of an African American equipment operator, and General contractor demoted and terminated complainant after he complained about the racially offensive language and filed a complaint with MCAD. General contractor ordered to pay complainant \$100,000 in compensatory damages and \$18,082.00 in backpay. Subcontractor held liable because it had notice that its employee Mark Griffin was subjected to the racially offsite environment created by the General contractors' supervisory employees and failed to remedy it, and retaliated against Griffin by terminating his employment after he complained about the racially abusive language and filed a complain with MCAD. Subcontractor ordered to pay Griffin \$100,000 in compensatory damages and \$19,609.68 in backpay.	2008	X		X		x x	X	laborer, equipment operator
	decree)	Georgia roofing contractor doing business in South Carolina paid \$12,000 to settle sex discrimination lawsuit where company failed to hire female applicant as a temporary laborer, but continued to hire male laborers Construction company paid \$15,000 to settle racial	2008	x	x		x		x	laborer
(30	05-cv-00183 (E.D. Tex. October 23, 2007) (consent decree)	harassment lawsuit where black male sheet metal worker was subjected to inappropriate racist remarks on a daily basis	2007	x		x		x	x	sheet metal worker
(31	EEOC v. B & J Excavating , Inc. 07-cv- 03480 JF (E.D. Pa. January 2, 2008) (consent decree)	Pennsylvania construction company paid \$27,000 to settle race discrimination lawsuit where black male pipe layer was laid off following snowstorm and not recalled, but white workers were recalled and other white workers were hired	2008	x		x	x	x	x	pipe layer

(32) Hale v. Jones Lee Construction , 2009 WL 2003306 (Mo.Cir. March 13, 2009)	Woman, who worked for construction company as a driver, tool person, and runner, filed a lawsuit under Missouri Human Rights Act against the company alleging that the foreman harassed her because of her gender and retaliated against her when she complained about the harassment by terminating her employment. Jury returned a verdict in her favor on the harassment claim and awarded \$10,000 in damages. (Court ordered company to pay \$65,000 in attorney fees; verdict in favor of defendant on retaliation claim; jury found plaintiff terminated for a non-retaliatory reason – lack of work)	2009	X	x				x	x	x		runner, driver
	Woman journeyman lineman in the electrical line trade and union member filed sex discrimination lawsuit under Title VII against Asplundh alleging that the company refused to hire her because of her gender until she filled EEOC charge. Company hired her in an attempt to avoid lawsuit, but treated her adversely because of gender by denying her "lead" and "foreman" assignments, and constructively discharged her. Jury found that company discriminated against plaintiff by failing to hire her, but that it did not constructively discharge plaintiff. Jury awarded plaintiff \$395,000 (\$15,000 for past wages, \$200,000 for past non- economic damages)	2008	X	x		X				x	electrician	
of Elevator Constructors, Local	Seventh Circuit held local union liable under Title VII for its decision to nothing in response to mechanics' alleged discriminatory refusal to train black female member of elevator union. Despite having worked 3 years as "helper' (apprentice), taken classroom training, and passed examination, union member could not get mechanic's license because master mechanics refused to provide her on-the-job training (Case settled 8/7/2006)	2006	x	x	x		x			x	elevator mechanic	
(35) EEOC v. Dollins Construction Co., 09-CV-00137 (E.D. Mo. May 20, 2010) (consent decree)	Missouri construction company paid \$15,000 to settle race harassment and retaliation lawsuit where three black construction workers were subjected to racial harassment at worksite that included racially charged comments and a display of a noose, and after one complained of harassment to business owner they were not sent out on any further jobs	2010	x		x			x	x	x		laborer
(36) United States v. City of New York, 07 Civ. 2083 (WHP), 2010 U.S. Dist. LEXIS 47267 (S.D.N.Y. May 13, 2010).	Court found that the New York City Department of Transportation had engaged in a pattern or practice of "unvarnished sex discrimination" by refusing to hire plaintifss as bridge painters, despite their years of painting experience in the private sector, solely because they were women.	2010	x	x		x				x	bridge painter	
(37) John Doe I, et al. v. Mulcahy, Inc. et al. 08-cv-00306 (D. Minn. May 24, 2010)(Order Approving Settlement)	Minnesota drywall commercial construction company agreed to pay between \$2.5 million and \$6 million, depending on the timing of payment, to settle lawsuit brought by Latino immigrant workers who alleged that company discriminated against them because of their race and national origin when it paid them less than their white co-workers. Complaint alleged Latino workers were almost always paid in cash without accompanying employee benefits and not paid overtime rates for overtime worked, while non-Latino, native-born peers were paid at much higher rates and provided benefits in compliance with Federal and state law	2010	x		x	x				x	drywall	

(20) Dendelph w to the Dent	has accorded female with class for structure to the	,							
(38) Randolph v. Indiana Regional Council of Carpenters and Millwirghts, Millwright Local Union 1003, 2007 WL 170202; (S.D. Ind. March 8, 2007)	Jury awarded female millwright (construction worker who does welding, bolting, and other metal work) \$20,000 in back pay and \$25,000 punitive damages in 2 sex after finding union discriminated against the plaintiff because of her sex by refusing to place her on the out-of-work list for referrals to millwright jobs. Court denied union's motion for judgment notwithstanding verdict finding no manifest error of law or fact in the back pay award and that the award of punitive damages was appropriate and not excessive	2007	x	x		x		x	millwright
(39) Bowles v. Osmose Utilities Service Inc. , 443 F.3d 671 (8 th Cir. 2006)	Eight circuit affirmed District court's award of \$20,000 in compensatory damages, and \$80,000 in punitive damages to black member of utility pole treatment crew who brought lawsuit under 42 U.S.C. § 1981 alleging that he was subjected to a racially hostile work environment where foreman peppered black crew members with racial insults	2006	x	x			x	x	utility pole treater
(40) EEOC v. L.A. Pipeline Construction Co., 08-cv-840 (S.D. Ohio June 8, 2010)	EEOC brought racial harassment lawsuit alleging that Ohio construction company, engaged in the business of building and maintaining pipelines used to transport natural gas, created a hostlie work environment for a class of black employees through exposure to nooses, a racial epithets, and other racially offensive behavior. In denying summary judgment as to the claims of some of the class of the class members, the court held that the company's awareness of racial harassment by co-workers of black employees and the reasonable of its responses to such harassment must be resolved by a jury (Workers on crews from four crafts – equipment operators, laborers, teamsters, and welders)	2010	x	x			x	x	laborer, teamster, equipment operator
(41) Carl Carpenter and Chinh Q, LE, Director, New Jersey Division on Civil Rights v. C.B.M. et. al, DCR Docket No. EC24WB-60143, (Office of Attorney General September 25, 2009)	Director found probable cause existed to credit allegations of complaint filed under the New Jersey Law Against Discrimination alleging that construction and renovation company subjected complainant to a racially hostile work environment and discharged him from his position as carpenter because of his race (Black)	2009	x	x			x x	: x	carpenter
v. Plumbers & Pipefitters Local	Director found probable cause existed to credit allegations of complaint filed under New Jersey Law Against Discrimination alleging that union removed the complainant from his position as shop steward because of his race (Black) and replaced him with a Caucasian employee	2009	x	x		x		x	plumber
(43) OFCCP v. Air Mechanical & Service Corporation (Conciliation Agreement October 13, 2009)	Florida plumbing, air conditioning and heating contractor agreed to pay \$39,013.18 in back pay and interest to affected class of 12 minority employees in helper, service, and insulator job categories to resolve alleged violation identified during compliance evaluation that company paid minority employees less than similarly situated non-minorities. Contractor also agreed to provide \$30,160.00 in salary adjustments	2009	x	x		x		x	helper, insulator
(44) OFCCP v. APAC-Tennessee Inc. (Conciliation Agreement September 8, 2008)	Asphalt paving contractor agreed to pay \$54,221 in back pay to an affected class of 76 qualified black applicants to resolve alleged violation identified during compliance evaluation that company discriminated against black applicants for laborer positions because of their race. Company also agreed to make written job offers to qualified class members until 15 accepted jobs	2008	x	x	x			x	laborer

TOTAL		50	17	15	13	5	14	29	6	2	3	10	9	5	1	25	6	21	43	6	26	27
and William G. Erps d/b/a/ Improvements Ulimited, Docket No. ER-71-05, (W.VA. Human Rights Commission, April 6, 2007)	Construction company found liable for racial harassment and retaliation against Black laborer where company did not take action to remedy co-worker's harassment which took the form of racially offensive language and threat of physical violence and instead fired the laborer. Company ordered to pay backpay for lost wages and \$5000 for humilation.	2007			x			x								x		x	x			laborer
Against Discrimination & Julianna McCormick v. Modern Continental Construction Co., Docket 98-BEM-0584 (Decision of Full Commission August 9,	Commission found Massachusetts construction company liable for the retaliatory harassment a female carpenter experienced after she complained about gender-based harassment at job site (oc-workers placed carving of a penis in her work sweatshirt) and ordered company to pay \$50,000 for emotional distress and a civil penalty not to exceed \$25,000	2007	x				x											x			carpenter	
Human Rights on the Complaint of Filiberto Moreira v. VMT General Construction	Commision found that New York construction company discriminated against a Black employee because of his race when terminated his employment as a demolitionist. Company ordered to pay \$5440.41 in lost wages and \$10,000 for emotional distress.	2007	x					x									x		x		demolitioni st	
Brotherhood of Electrical Workers, Local Union 159, 08- cv-307-bbc, 2008 WL 5423188 (W.D.Wis. Dec.30, 2008)	Court denied union's motion for summary judgment in race discrimination lawsuit brought under 42 U.S.C. § 1981 alleging that union discriminated against by black electrician when it denied him membership and job referrals; court held that undisputed evidence that union admitted 19 white applicants during the time it denied membership to black applicant done was sufficient allow the case to proceed to trial and that a reasonable jury could infer that union discriminated because of race when it told plaintiff there was no work while at the same it accepted numerous new white members and found work for them (Case settled March 3, 2009)	2008		x				x					x							x	electrician	
January 5, 2010)	Virginia general contractor agreed to pay \$7,552.03 in back pay to two minorities in carpenter job title to resolve alleged violation identified during compliance evaluation that company paid minorities less than similarly situated non-minorities Company also agreed to adjust hourly wage of one carpenter from \$15.00 to \$18.00, and the hourly wage of the other carpenter from \$15.00 to \$16.00	2010			x						x			x					x		carpenter	
Agreement November 17, 2009)	American employee \$53,229.20 in back pay and interest to resolve alleged violation identified during compliance evaluation that employee was subjected to race-based harassment and intimidation by supervisors and co-workers which included racially derogatory terms, verbal and written racial slurs, and placement of nooses in workers, and not recalled or rehired from layoff because he complained about harassment to management and notified company that he was filing a discrimination complaint. Company hired and recalled from layoff non-minority laborers only	2009			x			x								x		x	x			laborer

APPENDIX E

Appendix Table E.1 Potential Sources of Data on the Number and Characteristics of Firms in the Construction Industry

(a)	(b)	(c)	(d)	(e)	(f)	(9)
	Federa	I Procurement System			U.S. Census Bureau	
Database	Federal Central Contract Register (CCR)	Federal Procurement Data System (FPDS)	Electronic Subcontracting Reporting System (eSRS)	Economic Census of the US	County Business Patterns	Statistics of United States Businesses
Agency or Organization Maintaining the Data Base	U.S. General Services Administration	U.S. General Services Administration	U.S. General Services Administration	U.S. Census Bureau	U.S. Census Bureau	U.S. Census Bureau
How is Data Gathered for the Data Base	Self reported as part of registration by firms that wish to contract with the federal government	Each Federal contract is entered by GSA	Firms holding one or more large federal contracts submit an Individual Subcontract Report for each large contract	The economic census covers nearly all businesses and industries in the private, non-farm U.S. Economy. Many small businesses with paid employees do not receive census forms-data are obtained from administrative sources. Although not every business receives a census form, the published totals reflect all covered businesses. The economic census includes only businesses with paid employees.	The Business Register is the Census Bureau's source for information on employer establishments included in County Business Patterns and ZIP Business Patterns.	2006 County Business Patterns
Website(s) Providing Description of Data Base	https://www.bpn.gov/ccr/default.aspx	https://www.fpds.gov	http://www.esrs.gov	http://www.census.gov/econ/census07/	http://www.census.gov/econ/cbp	http://www.census.gov/csd/susb
What Firms of all Types are Included?	All US firms that have registered to work on federal contracts	All firms that hold federal contracts (not including subcontracts)	All firms that hold one or more large federal contracts	Businesses with paid employees	All US Firms	All US Firms
firms are Included?	All US firms that are registered to work on federal contracts	All contractors that have active contracts with the federal government	?	All US Firms	All US Firms	All US Firms
Number of Firms Included (All Types)	531,891	?	?	5,583,889	7,705,018	7,601,160
Number of Firms Included (Construction)	109,207 firms	?	n/a (not a data set of individual firms)	728,020	811,452	802,349
Most Recent Data Currently Available	4/15/2010	FY2009	?	2007	2007	2006
How Frequently are Data Updated?	monthly	annually	?	Data from the 2007 Economic Census are released on a flow basis from March 2009 through mid-2011.	annually	annually
Geographic Coverage of Data Set	All US	All US	All US	All US	All US	All US
For What Geographic Units Can Data be Tabulated? (e.g., states, counties, zip codes, PUMAs, MSAs, etc.)	City, State, Zip Code	City, State, Zip Code	n/a (not a data set of individual firms)	State	State, MSA, County, Zip Code	US only
For What Level of Industry Detail (NAICS digits) Can Data be Tabulated	any and all levels	2,3,4,5	n/a (not a data set of individual firms)	2,3	2,3,4,5	2,3,4,5
Is Data Available for Public Use?	yes	yes	yes	Yes	Yes	Yes
Is there a charge for use?	no	no	no	no	no	no
Does the Data Set Include Firms' Total Revenues?	Annual Revenue	Can be obtained via match to CCR	n/a (not a data set of individual firms)	No	No	No
Does the Data Set Include Firms' Federal Contract Revenues?	Can be obtained via match to FPDS	Size of each contract	n/a (not a data set of individual firms)	No	No	No
Does the Data Set Include Firm's Number of Employees	Average number of employees	Can be matched to CCR	n/a (not a data set of individual firms)	No	Yes; '1-4' '5-9' '10-19' '20-49' '50- 99' '100-249' '250-499' '500-999' '1000 or more'	
Does the Data Set Include Firm's Employee Payroll?	No	need to complete data access to determine	n/a (not a data set of individual firms)	No	Average payroll per employee count classification	Average payroll per employee count classification
Does the Data Set Include any Other Information on Firm Size?	No	need to complete data access to determine	Reports subcontract funds awarded to firms owned by women, minorities	No	No	No
Other Key info to note	Firms has multiple NAICS codes in this database, so "totals" based on different aggregation levels can yield different results depending on how a firm is categorized			This dataset only looks at NAICS size by state, so by firm analysis not possible		Should line up with 2006 CBP data; Column E represents 2007 CBP data

Appendix Table E.1 Potential Sources of Data on the Number and Characteristics of Firms in the Construction Industry

(a)	(h)	(i)	()	(k)	(1)	(m)
	U.S. Census Bureau (cont'd)	EEOC		Non-Go	vernment Sources	
Database	Survey of Business Owners (SBO)	Job Patterns in Private Industry (EEO-1 Reports)	Dun & Bradstreet	Associated General Contractors of America	National Association of Women in Constrution	NAICS Association
Agency or Organization Maintaining the Data Base	U.S. Census Bureau	U.S. EEOC	Dun & Bradstreet	Associated General Contractors of America		Dun & Bradstreet
How is Data Gathered for the Data Base	Summary Statistics based on the 2002 Economic Census	Employer EEO-1 reports submitted annually in August to the Joint Reporting Committee (EEOC/OFCCP)	?	Provided by members	No industry data available	No industry data available
Website(s) Providing Description of Data Base	http://www.census.gov/econ/sbo/	http://www.eeoc.gov	http://www.dnb.com	http://www.agc.org/	http://www.nawic.org	http://www.naics.com
What Firms of all Types are Included?	Nonfarm businesses and receipts of > \$1,000	All establishements in the U.S. with ≥ 100 employees (≥ 50 employees if a federal contractor)	All types	Construction contractors and suppliers of construction services & supplies	Members	
What Construction firms are Included?	All US Firms	All those meeting above size requirement	Almost all U.S. firms that file tax returns	Relatively small number of contractors compared to Census and other figures	Relatively small number of contractors compared to Census and other figures	
Number of Firms Included (All Types)	2,400,000	250,650 reports	17 million	33,000		13,791,844
Number of Firms Included (Construction)	729,842	8,401 reports	n/a	33,000 (7,500 general contractors, 12,500 specialty contractors, 13,000 providers of services & supplies)		1,440,911
Most Recent Data Currently Available	2007	2008	2009			
How Frequently are Data Updated?	every 5 years	annually	continuously			
Geographic Coverage of Data Set	All US Firms	50 states + DC	All US	n/a	n/a	n/a
For What Geographic Units Can Data be Tabulated? (e.g., states, counties, zip codes, PUMAs, MSAs, etc.)	?	National (to NIACS 5), state (to NAICS 3), CBSA (to NAICS 3)	City, State, Zip Code			
For What Level of Industry Detail (NAICS digits) Can Data be Tabulated	?	To NAICS 5 (national), NAICS 3 (states and CBSAs)	2,3,4,5			
Is Data Available for Public Use?	n/a	Tabulations available on-line, micro data not available	No	Yes	Yes	Yes
Is there a charge for use?	Yes	no	Yes (\$5,000 for 250,000 records, \$3500 for each additional 100,000 records	No	No	No
Does the Data Set Include Firms' Total Revenues?	No	no	Yes	No	No	No
Does the Data Set Include Firms' Federal Contract Revenues?	No	no	No	No	No	No
Does the Data Set Include Firm's Number of Employees	No	Actual number of employees as of reporting date	Estimated employee counts per firm	No	No	No
Does the Data Set Include Firm's Employee Payroll?	No	no	No	No	No	No
Does the Data Set Include any Other Information on Firm Size?	No	no	No	No	No	No
Other Key info to note			Data tool can be demoed.	Membership list is too small to be useful.	Membership list is too small to be useful.	Provides sales and telemarketing lists and appends NAICS codes. These data are not considered useful or reliable.

Appendix Table E.2 Construction Firms, Nationwide, by Number of Employees, County Business Patterns 2008

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	NAICS Code	Inducting Sector	Total	Firmo	1-4		ounts by Nun		oyees 10-1	10
	NAICS Code	Industry Sector	N	Firms %	N 1-4	+%	<u>5-9</u> N	%	N	%
(1)	236	Construction of Buildings	232,634	100.0%	167,290	71.9%	33,855	14.6%	17,405	7.5%
(2)	2361	Residential Building Construction	187,327	100.0%	146,576	78.2%	24,893	13.3%	10,061	5.4%
		New Single-Family Housing Construction (except							,	
(3)	236115	Operative Builders)	69,206	100.0%	53,436	77.2%	10,167	14.7%	3,897	5.6%
		New Multifamily Housing Construction (except		100.001	o /= /			4 = 00/		
(4)	236116	Operative Builders)	4,035	100.0%	2,454	60.8%	643	15.9%	445	11.0%
(5)	236117	New Housing Operative Builders	23,573	100.0%	16,705	70.9%	3,661	15.5%	1,611	6.8%
(6)	236118	Residential Remodelers	90,513	100.0%	73,981	81.7%	10,422	11.5%	4,108	4.5%
(7)	2362	Nonresidential Building Construction	45,307	100.0%	20,714	45.7%	8,962	19.8%	7,344	16.2%
(8)	236210	Industrial Building Construction	3,572	100.0%	1,676	46.9%	727	20.4%	539	15.1%
(9)	236220	Commercial and Institutional Building Construction	41,735	100.0%	19,038	45.6%	8,235	19.7%	6,805	16.3%
(10)	237	Heavy and Civil Engineering Construction	48,030	100.0%	24,597	51.2%	8,315	17.3%	6,301	13.1%
(11)	2371	Utility System Construction	20,944	100.0%	9,226	44.1%	4,084	19.5%	3,197	15.3%
(12)	237110	Water and Sewer Line and Related Structures	13,269	100.0%	6,291	47.4%	2,769	20.9%	1,978	14.9%
(12)	237110	Construction	13,209	100.0%	0,291	47.4%	2,769	20.9%	1,970	14.9%
(13)	237120	Oil and Gas Pipeline and Related Structures	1,946	100.0%	601	30.9%	266	13.7%	282	14.5%
()	201120	Construction	1,010	100.070	001	00.070	200	10.170	202	14.070
(14)	237130	Power and Communication Line and Related	5,729	100.0%	2,334	40.7%	1,049	18.3%	937	16.4%
(4.5)	0070	Structures Construction							740	0.00/
(15)	2372	Land Subdivision	10,814	100.0%	8,130	75.2%	1,479	13.7%	712	6.6%
(16) (17)	237210 2373	Land Subdivision	10,814 11,509	100.0% 100.0%	8,130 4,579	75.2% 39.8%	1,479 1,930	13.7% 16.8%	712 1,795	6.6% 15.6%
(17)	2373	Highway, Street, and Bridge Construction Highway, Street, and Bridge Construction	11,509	100.0%	4,579 4,579	39.8% 39.8%	1,930	16.8%	1,795	15.6%
(10)	2379	Other Heavy and Civil Engineering Construction	4,763	100.0%	2,662	55.9%	822	17.3%	597	12.5%
(20)	237990	Other Heavy and Civil Engineering Construction	4,763	100.0%	2,662	55.9%	822	17.3%	597	12.5%
(20)	238	Specialty Trade Contractors	492,950	100.0%	311,635	63.2%	84,258	17.1%	50,608	10.3%
(22)	2381	Foundation, Structure, and Building Exterior	108,067	100.0%	67,163	62.1%	18,989	17.6%	11,191	10.4%
()	2001	Contractors	100,007	100.070	07,100	02.170	10,000	17.070	11,101	10.470
(23)	238110	Poured Concrete Foundation and Structure	24,663	100.0%	14,378	58.3%	4,649	18.9%	2,874	11.7%
. ,		Contractors	,		.,		.,		_,	
(24)	238120	Structural Steel and Precast Concrete Contractors	3,743	100.0%	1,367	36.5%	719	19.2%	641	17.1%
(25)	238130	Framing Contractors	15,381	100.0%	10,678	69.4%	2,720	17.7%	1,096	7.1%
(26)	238140	Masonry Contractors	25,022	100.0%	16,329	65.3%	4,152	16.6%	2,270	9.1%
(27)	238150	Glass and Glazing Contractors	5,541	100.0%	2,673	48.2%	1,271	22.9%	876	15.8%
(28)	238160	Roofing Contractors	18,579	100.0%	10,955	59.0%	3,192	17.2%	2,186	11.8%
(29)	238170	Siding Contractors	9,436	100.0%	7,171	76.0%	1,329	14.1%	601	6.4%
(30)	238190	Other Foundation, Structure, and Building Exterior Contractors	5,702	100.0%	3,612	63.3%	957	16.8%	647	11.3%
(31)	2382	Building Equipment Contractors	184,132	100.0%	106,496	57.8%	34,895	19.0%	21,854	11.9%
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	78,026	100.0%	45,922	58.9%	14,564	18.7%	8,900	11.4%
(33)	238220	Plumbing, Heating, and Air-Conditioning	99,190	100.0%	57,523	58.0%	19,069	19.2%	11,931	12.0%
		Contractors								
(34) (35)	238290 2383	Other Building Equipment Contractors Building Finishing Contractors	6,916 126,100	100.0% 100.0%	3,051 88,807	44.1% 70.4%	1,262 18,309	18.2% 14.5%	1,023 10,318	14.8% 8.2%
(36)	238310	Drywall and Insulation Contractors	21,268	100.0%	12,217	57.4%	3,389	14.5%	2,514	11.8%
(37)	238320	Painting and Wall Covering Contractors	38.567	100.0%	28,241	73.2%	5,586	14.5%	2,314	7.2%
(38)	238330	Flooring Contractors	16,070	100.0%	12,116	75.4%	2,126	13.2%	1,063	6.6%
(39)	238340	Tile and Terrazzo Contractors	11,209	100.0%	8,007	71.4%	1,545	13.8%	945	8.4%
(40)	238350	Finish Carpentry Contractors	32,054	100.0%	24,248	75.6%	4,399	13.7%	2,142	6.7%
(41)	238390	Other Building Finishing Contractors	6,932	100.0%	3,978	57.4%	1,264	18.2%	895	12.9%
(42)	2389	Other Specialty Trade Contractors	74,651	100.0%	49,169	65.9%	12,065	16.2%	7,245	9.7%
(43)	238910	Site Preparation Contractors	40,689	100.0%	25,974	63.8%	6,651	16.3%	4,142	10.2%
(44)	238990	All Other Specialty Trade Contractors	33,962	100.0%	23,195	68.3%	5,414	15.9%	3,103	9.1%
(45)	23	All Construction Firms	773,614	100.0%	503,522	65.1%	126,428	16.3%	74,314	9.6%

Appendix Table E.2 Construction Firms, Nationwide, by Number of Employees, County Business Patterns 2008

	(a)	(b)	(c)	(d)	(k)	(I)	(m)	(n)	(o)	(p)
							ounts by Nun			
	NAICS Code	Industry Sector	Total		20-4		50-9		100-2	
(1)	226	Construction of Buildings	N	%	N 9.822	<u>%</u> 4.2%	N 2.703	<u>%</u> 1.2%	N 1.201	% 0.5%
(1)	236	Construction of Buildings	232,634	100.0%	- / -		,	0.5%	1,201	
(2)	2361	Residential Building Construction	187,327	100.0%	4,277	2.3%	1,029	0.5%	396	0.2%
(3)	236115	New Single-Family Housing Construction (except Operative Builders)	69,206	100.0%	1,366	2.0%	240	0.3%	73	0.1%
(4)	236116	New Multifamily Housing Construction (except Operative Builders)	4,035	100.0%	312	7.7%	105	2.6%	56	1.4%
(5)	236117	New Housing Operative Builders	23,573	100.0%	970	4.1%	402	1.7%	188	0.8%
(6)	236118	Residential Remodelers	90,513	100.0%	1,629	1.8%	282	0.3%	79	0.1%
(7)	2362	Nonresidential Building Construction	45,307	100.0%	5,545	12.2%	1,674	3.7%	805	1.8%
(8)	236210	Industrial Building Construction	3,572	100.0%	372	10.4%	116	3.2%	90	2.5%
(9)	236220	Commercial and Institutional Building Construction	41,735	100.0%	5,173	12.4%	1,558	3.7%	715	1.7%
(10)	237	Heavy and Civil Engineering Construction	48,030	100.0%	5,152	10.7%	2,000	4.2%	1,190	2.5%
(11)	2371	Utility System Construction	20,944	100.0%	2,643	12.6%	985	4.7%	553	2.6%
(12)	237110	Water and Sewer Line and Related Structures Construction	13,269	100.0%	1,471	11.1%	489	3.7%	217	1.6%
(13)	237120	Oil and Gas Pipeline and Related Structures Construction	1,946	100.0%	330	17.0%	194	10.0%	165	8.5%
(14)	237130	Power and Communication Line and Related Structures Construction	5,729	100.0%	842	14.7%	302	5.3%	171	3.0%
(15)	2372	Land Subdivision	10,814	100.0%	323	3.0%	108	1.0%	50	0.5%
(16)	237210	Land Subdivision	10,814	100.0%	323	3.0%	108	1.0%	50	0.5%
(17)	2373	Highway, Street, and Bridge Construction	11,509	100.0%	1,775	15.4%	744	6.5%	510	4.4%
(18)	237310	Highway, Street, and Bridge Construction	11,509	100.0%	1,775	15.4%	744	6.5%	510	4.4%
(19)	2379	Other Heavy and Civil Engineering Construction	4,763	100.0%	411	8.6%	163	3.4%	77	1.6%
(20)	237990	Other Heavy and Civil Engineering Construction	4,763	100.0%	411	8.6%	163	3.4%	77	1.6%
(21)	238	Specialty Trade Contractors	492,950	100.0%	31,647	6.4%	9,474	1.9%	4,208	0.9%
(22)	2381	Foundation, Structure, and Building Exterior Contractors	108,067	100.0%	7,162	6.6%	2,329	2.2%	992	0.9%
(23)	238110	Poured Concrete Foundation and Structure Contractors	24,663	100.0%	1,826	7.4%	568	2.3%	265	1.1%
(24)	238120	Structural Steel and Precast Concrete Contractors	3,743	100.0%	594	15.9%	255	6.8%	141	3.8%
(25)	238130	Framing Contractors	15,381	100.0%	552	3.6%	193	1.3%	122	0.8%
(26)	238140	Masonry Contractors	25,022	100.0%	1,493	6.0%	528	2.1%	199	0.8%
(27)	238150	Glass and Glazing Contractors	5,541	100.0%	527	9.5%	131	2.4%	54	1.0%
(28)	238160	Roofing Contractors	18,579	100.0%	1,581	8.5%	485	2.6%	163	0.9%
(29)	238170	Siding Contractors	9,436	100.0%	264	2.8%	54	0.6%	12	0.1%
(30)	238190	Other Foundation, Structure, and Building Exterior Contractors	5,702	100.0%	325	5.7%	115	2.0%	36	0.6%
(31)	2382	Building Equipment Contractors	184,132	100.0%	14,035	7.6%	4,244	2.3%	2,017	1.1%
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	78,026	100.0%	5,726	7.3%	1,762	2.3%	880	1.1%
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	99,190	100.0%	7,338	7.4%	2,132	2.1%	926	0.9%
(34)	238290	Other Building Equipment Contractors	6,916	100.0%	971	14.0%	350	5.1%	211	3.1%
(35)	2383	Building Finishing Contractors	126,100	100.0%	6,061	4.8%	1,704	1.4%	712	0.6%
(36)	238310	Drywall and Insulation Contractors	21,268	100.0%	1,917	9.0%	730	3.4%	377	1.8%
(37)	238320	Painting and Wall Covering Contractors	38,567	100.0%	1,465	3.8%	359	0.9%	130	0.3%
(38)	238330	Flooring Contractors	16,070	100.0%	592	3.7%	126	0.8%	43	0.3%
(39)	238340	Tile and Terrazzo Contractors	11,209	100.0%	523	4.7%	142	1.3%	40	0.4%
(40)	238350	Finish Carpentry Contractors	32,054	100.0%	996	3.1%	192	0.6%	66	0.2%
(41)	238390	Other Building Finishing Contractors	6,932	100.0%	568	8.2%	155	2.2%	56	0.8%
(42)	2389	Other Specialty Trade Contractors	74,651	100.0%	4,389	5.9%	1,197	1.6%	487	0.7%
(43)	238910	Site Preparation Contractors	40,689	100.0%	2,726	6.7%	787	1.9%	342	0.8%
(44)	238990	All Other Specialty Trade Contractors	33,962	100.0%	1,663	4.9%	410	1.2%	145	0.4%
(45)	23	All Construction Firms	773,614	100.0%	46,621	6.0%	14,177	1.8%	6,599	0.9%

Appendix Table E.2 Construction Firms, Nationwide, by Number of Employees, County Business Patterns 2008

	(a)	(b)	(c)	(d)	(q)	(r)	(s)	(t)	(u)	(v)
1	NAICE Code	In ducting Conton	Tatal		250.4			ber of Emplo		
ŀ	NAICS Code	Industry Sector	Total N	Firms %	250-4 N	99 %	<u>500-9</u> N	99 %	1,000 N	0 + %
(1)	236	Construction of Buildings	232,634	7 0 100.0%	242	0.1%	86	0.0%	30	0.0%
(1) (2)	236	Residential Building Construction	232,634 187,327	100.0%	69	0.1%	22	0.0%	30 4	0.0%
(2)	2301	New Single-Family Housing Construction (except		100.078	09					0.0 %
(3)	236115	Operative Builders)	69,206	100.0%	19	0.0%	8	0.0%	0	0.0%
(4)	236116	New Multifamily Housing Construction (except Operative Builders)	4,035	100.0%	13	0.3%	6	0.1%	1	0.0%
(5)	236117	New Housing Operative Builders	23,573	100.0%	27	0.1%	6	0.0%	3	0.0%
(6)	236118	Residential Remodelers	90,513	100.0%	10	0.0%	2	0.0%	0	0.0%
(7)	2362	Nonresidential Building Construction	45,307	100.0%	173	0.4%	64	0.1%	26	0.1%
(8)	236210	Industrial Building Construction	3,572	100.0%	30	0.8%	16	0.4%	6	0.2%
(9)	236220	Commercial and Institutional Building Construction	41,735	100.0%	143	0.3%	48	0.1%	20	0.0%
(10)	237	Heavy and Civil Engineering Construction	48,030	100.0%	317	0.7%	93	0.2%	65	0.1%
(11)	2371	Utility System Construction	20,944	100.0%	156	0.7%	51	0.2%	49	0.2%
(12)	237110	Water and Sewer Line and Related Structures	13,269	100.0%	46	0.3%	6	0.0%	2	0.0%
(12)	237110	Construction	13,209	100.0%	40	0.3%	0	0.0%	2	0.0%
(13)	237120	Oil and Gas Pipeline and Related Structures Construction	1,946	100.0%	59	3.0%	23	1.2%	26	1.3%
		Power and Communication Line and Related								
(14)	237130	Structures Construction	5,729	100.0%	51	0.9%	22	0.4%	21	0.4%
(15)	2372	Land Subdivision	10,814	100.0%	6	0.1%	2	0.0%	4	0.0%
(16)	237210	Land Subdivision	10,814	100.0%	6	0.1%	2	0.0%	4	0.0%
(17)	2373	Highway, Street, and Bridge Construction	11,509	100.0%	132	1.1%	32	0.3%	12	0.1%
(18)	237310	Highway, Street, and Bridge Construction	11,509	100.0%	132	1.1%	32	0.3%	12	0.1%
(19)	2379	Other Heavy and Civil Engineering Construction	4,763	100.0%	23	0.5%	8	0.2%	0	0.0%
(20)	237990	Other Heavy and Civil Engineering Construction	4,763	100.0%	23	0.5%	8	0.2%	0	0.0%
	238	Specialty Trade Contractors	492,950	100.0%	855	0.2%	198	0.0%	67	0.0%
(22)	2381	Foundation, Structure, and Building Exterior	108,067	100.0%	190	0.2%	34	0.0%	17	0.0%
		Contractors Poured Concrete Foundation and Structure	,							
(23)	238110	Contractors	24,663	100.0%	72	0.3%	20	0.1%	11	0.0%
(24)	238120	Structural Steel and Precast Concrete Contractors	3,743	100.0%	21	0.6%	4	0.1%	1	0.0%
(25)	238130	Framing Contractors	15,381	100.0%	16	0.1%	3	0.0%	1	0.0%
(26)	238140	Masonry Contractors	25,022	100.0%	47	0.2%	3	0.0%	1	0.0%
(27)	238150	Glass and Glazing Contractors	5,541	100.0%	9	0.2%	0	0.0%	0	0.0%
(28)	238160	Roofing Contractors	18,579	100.0%	15	0.1%	1	0.0%	1	0.0%
(29)	238170	Siding Contractors	9,436	100.0%	3	0.0%	1	0.0%	1	0.0%
(30)	238190	Other Foundation, Structure, and Building Exterior Contractors	5,702	100.0%	7	0.1%	2	0.0%	1	0.0%
(31)	2382	Building Equipment Contractors	184,132	100.0%	433	0.2%	119	0.1%	39	0.0%
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	78,026	100.0%	192	0.2%	65	0.1%	15	0.0%
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	99,190	100.0%	206	0.2%	48	0.0%	17	0.0%
(34)	238290	Other Building Equipment Contractors	6,916	100.0%	35	0.5%	6	0.1%	7	0.1%
(35)	2383	Building Finishing Contractors	126,100	100.0%	153	0.1%	30	0.0%	6	0.0%
(36)	238310	Drywall and Insulation Contractors	21,268	100.0%	101	0.5%	20	0.1%	3	0.0%
(37)	238320	Painting and Wall Covering Contractors	38,567	100.0%	20	0.1%	5	0.0%	2	0.0%
(38)	238330	Flooring Contractors	16,070	100.0%	4	0.0%	0	0.0%	0	0.0%
(39)	238340	Tile and Terrazzo Contractors	11,209	100.0%	7	0.1%	0	0.0%	0	0.0%
(40)	238350	Finish Carpentry Contractors	32,054	100.0%	9	0.0%	2	0.0%	0 0	0.0%
(41)	238390	Other Building Finishing Contractors	6,932	100.0%	12	0.2%	3	0.0%	1	0.0%
(42)	2389	Other Specialty Trade Contractors	74,651	100.0%	79	0.1%	15	0.0%	5	0.0%
(43)	238910	Site Preparation Contractors	40,689	100.0%	55	0.1%	11	0.0%	1	0.0%
(44)	238990	All Other Specialty Trade Contractors	33,962	100.0%	24	0.1%	4	0.0%	4	0.0%
(45)	23	All Construction Firms	773,614	100.0%	1,414	0.2%	377	0.0%	162	0.0%

Appendix Table E.3 Construction Firms, Nationwide, by Number of Employees, County Business Patterns 2008

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
						lative % of Fi					
	NAICS Code		1-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 +
(1)	236	Construction of Buildings	71.9%	86.5%	93.9%	98.2%	99.3%	99.8%	100.0%	100.0%	100.0%
(2)	2361	Residential Building Construction	78.2%	91.5%	96.9%	99.2%	99.7%	99.9%	100.0%	100.0%	100.0%
(3)	236115	New Single-Family Housing Construction (except	77.2%	91.9%	97.5%	99.5%	99.9%	100.0%	100.0%	100.0%	100.0%
(-)	200110	Operative Builders)	11.270	01.070	07.070	00.070	00.070	100.070	100.070	100.070	100.070
(4)	236116	New Multifamily Housing Construction (except	60.8%	76.8%	87.8%	95.5%	98.1%	99.5%	99.8%	100.0%	100.0%
(-)	200110	Operative Builders)	00.070	10.070	07.070	33.370	50.170	55.570	55.070	100.070	100.070
(5)	236117	New Housing Operative Builders	70.9%	86.4%	93.2%	97.3%	99.0%	99.8%	100.0%	100.0%	100.0%
(6)	236118	Residential Remodelers	81.7%	93.2%	97.8%	99.6%	99.9%	100.0%	100.0%	100.0%	100.0%
(7)	2362	Nonresidential Building Construction	45.7%	65.5%	81.7%	93.9%	97.6%	99.4%	99.8%	99.9%	100.0%
(8)	236210	Industrial Building Construction	46.9%	67.3%	82.4%	92.8%	96.0%	98.5%	99.4%	99.8%	100.0%
(9)	236220	Commercial and Institutional Building Construction	45.6%	65.3%	81.7%	94.0%	97.8%	99.5%	99.8%	100.0%	100.0%
(3)	230220	Commercial and institutional Duliding Constituction	40.078	00.076	01.770	54.078	57.070	33.378	33.078	100.078	100.078
(10)	237	Heavy and Civil Engineering Construction	51.2%	68.5%	81.6%	92.4%	96.5%	99.0%	99.7%	99.9%	100.0%
(11)	2371	Utility System Construction	44.1%	63.6%	78.8%	91.4%	96.1%	98.8%	99.5%	99.8%	100.0%
(12)	237110	Water and Sewer Line and Related Structures	47.4%	68.3%	83.2%	94.3%	98.0%	99.6%	99.9%	100.0%	100.0%
(12)	237110	Construction	47.470	00.376	03.270	94.370	90.076	99.0%	99.976	100.078	100.078
(13)	237120	Oil and Gas Pipeline and Related Structures	30.9%	44.6%	59.0%	76.0%	96.0%	04 59/	07 59/	98.7%	100.0%
(13)	237120	Construction	30.9%	44.0%	59.0%	76.0%	86.0%	94.5%	97.5%	90.7%	100.0%
(14)	237130	Power and Communication Line and Related	40 79/	50 19/	75 40/	00.1%	05 49/	09 49/	00.29/	00.6%	100.0%
(14)	237130	Structures Construction	40.7%	59.1%	75.4%	90.1%	95.4%	98.4%	99.2%	99.6%	100.0%
(15)	2372	Land Subdivision	75.2%	88.9%	95.4%	98.4%	99.4%	99.9%	99.9%	100.0%	100.0%
(16)	237210	Land Subdivision	75.2%	88.9%	95.4%	98.4%	99.4%	99.9%	99.9%	100.0%	100.0%
(17)	2373	Highway, Street, and Bridge Construction	39.8%	56.6%	72.2%	87.6%	94.0%	98.5%	99.6%	99.9%	100.0%
(18)	237310	Highway, Street, and Bridge Construction	39.8%	56.6%	72.2%	87.6%	94.0%	98.5%	99.6%	99.9%	100.0%
(19)	2379	Other Heavy and Civil Engineering Construction	55.9%	73.1%	85.7%	94.3%	97.7%	99.3%	99.8%	100.0%	100.0%
(20)	237990	Other Heavy and Civil Engineering Construction	55.9%	73.1%	85.7%	94.3%	97.7%	99.3%	99.8%	100.0%	100.0%
(21)	238	Specialty Trade Contractors	63.2%	80.3%	90.6%	97.0%	98.9%	99.8%	99.9%	100.0%	100.0%
		Foundation, Structure, and Building Exterior									
(22)	2381	Contractors	62.1%	79.7%	90.1%	96.7%	98.9%	99.8%	100.0%	100.0%	100.0%
(00)	000110	Poured Concrete Foundation and Structure	50.00/	77 40/	00.00/	00.00/	00 50/	00.00/	00.00/	400.00/	100.00/
(23)	238110	Contractors	58.3%	77.1%	88.8%	96.2%	98.5%	99.6%	99.9%	100.0%	100.0%
(0.1)	000400	Official official and Decision Operation Constructions	00 50/		70.00/	00 70/	05 50/	00.00/	00.00/	400.00/	100.00/
(24)	238120	Structural Steel and Precast Concrete Contractors	36.5%	55.7%	72.9%	88.7%	95.5%	99.3%	99.9%	100.0%	100.0%
(25)	238130	Framing Contractors	69.4%	87.1%	94.2%	97.8%	99.1%	99.9%	100.0%	100.0%	100.0%
(26)	238140	Masonry Contractors	65.3%	81.9%	90.9%	96.9%	99.0%	99.8%	100.0%	100.0%	100.0%
(27)	238150	Glass and Glazing Contractors	48.2%	71.2%	87.0%	96.5%	98.9%	99.8%	100.0%	100.0%	100.0%
(28)	238160	Roofing Contractors	59.0%	76.1%	87.9%	96.4%	99.0%	99.9%	100.0%	100.0%	100.0%
(29)	238170	Siding Contractors	76.0%	90.1%	96.4%	99.2%	99.8%	99.9%	100.0%	100.0%	100.0%
()		Other Foundation, Structure, and Building Exterior									
(30)	238190	Contractors	63.3%	80.1%	91.5%	97.2%	99.2%	99.8%	99.9%	100.0%	100.0%
(31)	2382	Building Equipment Contractors	57.8%	76.8%	88.7%	96.3%	98.6%	99.7%	99.9%	100.0%	100.0%
()		Electrical Contractors and Other Wiring Installation									
(32)	238210	Contractors	58.9%	77.5%	88.9%	96.3%	98.5%	99.7%	99.9%	100.0%	100.0%
		Plumbing, Heating, and Air-Conditioning									
(33)	238220	Contractors	58.0%	77.2%	89.2%	96.6%	98.8%	99.7%	99.9%	100.0%	100.0%
(34)	238290	Other Building Equipment Contractors	44.1%	62.4%	77.2%	91.2%	96.3%	99.3%	99.8%	99.9%	100.0%
(35)	2383	Building Finishing Contractors	70.4%	84.9%	93.1%	97.9%	99.3%	99.9%	100.0%	100.0%	100.0%
(36)	238310	Drywall and Insulation Contractors	57.4%	73.4%	85.2%	94.2%	97.6%	99.4%	99.9%	100.0%	100.0%
(37)	238320	Painting and Wall Covering Contractors	73.2%	87.7%	94.9%	98.7%	99.6%	99.9%	100.0%	100.0%	100.0%
(38)	238330	Flooring Contractors	75.4%	88.6%	95.2%	98.9%	99.7%	100.0%	100.0%	100.0%	100.0%
(39)	238340	Tile and Terrazzo Contractors	71.4%	85.2%	93.6%	98.3%	99.6%	99.9%	100.0%	100.0%	100.0%
(40)	238350	Finish Carpentry Contractors	75.6%	89.4%	96.1%	99.2%	99.8%	100.0%	100.0%	100.0%	100.0%
(41)	238390	Other Building Finishing Contractors	57.4%	75.6%	88.5%	96.7%	99.0%	99.8%	99.9%	100.0%	100.0%
(42)	2389	Other Specialty Trade Contractors	65.9%	82.0%	91.7%	97.6%	99.2%	99.9%	100.0%	100.0%	100.0%
(43)	238910	Site Preparation Contractors	63.8%	80.2%	90.4%	97.1%	99.0%	99.8%	100.0%	100.0%	100.0%
(44)	238990	All Other Specialty Trade Contractors	68.3%	84.2%	93.4%	98.3%	99.5%	99.9%	100.0%	100.0%	100.0%
(45)	2300000	All Construction Firms	65.1%	81.4%	91.0%	97.1%	98.9%	99.7%	99.9%	100.0%	100.0%
(-)			55.170	0	0070	570	00.070	00.170	00.070		

Appendix Table E.4 Construction Firms, Nationwide, by Number of Employees, Average Firm Revenue, County Business Patterns 2008

10 200 Commutation of Enkings 530.466 557.73 524.050 558.400 516.721 540.700	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)
10 286 Construction of Building 530,466 580,400 516,400 516,400 516,417 551,417 551,412 551,220 553,720						10.10					500.000	4 000
10 2361 Residential Building Construction Wersing-Emaily Including Construction (except Operative Building) 510.21 521.021												1,000 +
10 2011 New Simple-Tamity Housing Construction (except \$14,226 \$52,227 \$200,797 \$447,530 \$1,230,232 \$3,124,463 \$75,50,863 \$16,503,316 \$35,213,000 19 229110 New Multing Mithy Housing Construction (except \$77,44 \$27,074 \$27,074 \$27,074 \$2217,038 \$4,642,06 \$10,463,02 \$11,4566 \$54,150,33 \$30,504,302 \$11,4566 \$54,150,33 \$30,504,302 \$11,4566 \$54,150,33 \$30,504,302 \$11,4566 \$54,150,33 \$30,504,302 \$11,4566 \$54,150,33 \$30,504,302 \$11,4566 \$54,150,33 \$30,504,302 \$11,4566 \$54,150,33 \$30,504,302 \$10,482,033 \$30,504,103 \$30,504,103 \$30,504,103 \$30,504,103 \$30,504,103 \$30,504,103 \$31,506 \$30,75,117 \$30,460,103 \$30,001,165 \$12,22,603 \$34,64,013 \$10,80,50 \$44,642,64 \$10,80,50 \$44,642,643 \$10,80,50 \$44,642,643 \$10,80,50 \$44,642,643 \$10,80,50,70 \$44,69,60,83 \$4,064,643,117,716 \$24,80,80,80,80 \$10,80,51,717 \$44,60,80,80,80,80												\$117,142,500
16 2.9116 New Multiamity Housing Construction (except 22117 570,744 970,744 927,020 580,142 51,763,038 541,370,38 590,623,429 523,279,308 10 22117 New Housing Operative Builders 544,961 524,442 51,763,27 54,462,428 51,314,481 500,800 544,481,303,303 10 22317 New Housing Operative Building Construction 51,320,000 582,089 529,221 5571,044 51,703,503 54,006,103 590,013 590,013 590,013 590,013 544,492,033 512,55 10 227 Heavy and CWI Engineering Construction 5148,804 5164,862 51,744,477,118 51,008,242 53,744,000 59,167,116 52,168,045 54,515,033 512,55 10 22711 Heavy and CWI Engineering Construction 5148,846 590,808 528,399 560,128 53,740,000 51,67,718 54,046,073 54,066,000 51,62,773 10 227100 Oil and Gas Popline and Related Structures 53,08,266 52,127,77 52,320,77 53,08,266 51,48,27,	(3) 236115		\$154,256	\$55,287	\$209,797	\$497,530	\$1,230,232	\$3,124,463	\$7,550,863	\$18,630,316	\$39,213,000	
in S20117 New Housing Operative Building S402,017 S44,442 S500,250 S10,743,22 S4,161,242,08 S10,743,22 S4,161,243,20 S10,243,20 S10,243,20 S10,243,20 S10,243,20 S10,243,20 S10,243,20 S10,230,20 S10,240,20 S10,41,90 S1,27,23,80 S10,210,20 S10,41,90 S1,210,20,30 S10,51,30 S1,010,20 S1,010,30	(4) 236116	New Multifamily Housing Construction (except	\$734,297	\$70,744	\$272,002	\$661,492	\$1,783,638	\$4,137,038	\$9,623,429	\$23,279,308		
(17) 2382.20 Nonresidential Building Construction \$\$45,442.00 \$\$12,20,68 \$\$12,20,06 \$\$14,80,50 \$\$14,80,50 \$\$14,80,50 \$\$14,80,50 \$\$14,80,50 \$\$14,80,50 \$\$14,80,50 \$\$16,20,20 \$\$1,60,20 \$\$1,40,50 \$\$12,72,20 \$\$2,44,607 \$\$16,22,37 \$\$2,48,607 \$\$16,24,23 <	(5) 236117		\$402,617	\$64,951	\$244,452	\$586,579	\$1,676,272	\$4,464,246	\$10,343,362		\$54,158,333	
in 232210 Industrial Building Communication \$122,000 \$228,219 \$1,731,800 \$4,64,183 \$77.7 i0 236220 Commercial and Institutional Building Construction \$104,982 \$314,966 \$71,094 \$1,731,800 \$42,832,763 \$30,812,397 \$23,880,405 \$44,5165,333 \$124,203 \$144,983 \$144,983 \$104,982 \$314,966 \$771,094 \$3,747,00 \$3,747,00 \$3,747,00 \$3,747,00 \$3,747,00 \$3,248,000 \$10,982,717 \$42,484,666 \$142,4 (12) 2371 Utility System Construction \$51,986,865 \$281,122 \$577,914 \$83,4400 \$19,982,717 \$42,424,666 \$19,982,717 \$42,424,666 \$19,982,717 \$42,446,665 \$19,982,717 \$51,986,422 \$33,98,400 \$19,982,717 \$51,986,423 \$51,986,423 \$51,986,423 \$51,986,423 \$51,986,423 \$51,986,423 \$51,986,423 \$51,986,423 \$51,986,463 \$51,972,577 \$53,986,400 \$16,422,333 \$56,426,433 \$56,466,43 \$51,972,577 \$53,986,400 \$16,422,333 \$56,466,43 \$51,972,577	(6) 236118	Residential Remodelers	\$117,971	\$44,140	\$205,584	\$480,568	\$1,176,321	\$3,039,443	\$5,134,481	\$9,095,800		
19 236220 Commercial and Institutional Building Construction 198 59.997 \$104.982 \$314.966 \$710.944 \$1,731.999 \$4,232,763 \$9,812.397 \$23,680,455 \$45,156,333 \$125,5 (10) 227 Hewy and Civil Engineering Construction \$1,198,199 \$58,026 \$322,420 \$73,486 \$1,741,397 \$33,751,117 \$23,080,025 \$51,008,105	(7) 2362	Nonresidential Building Construction	\$981,442	\$103,939	\$313,608	\$708,074	\$1,722,948	\$4,217,057	\$9,721,588	\$22,904,971	\$45,480,203	\$115,011,654
110 227 Heavy and Chile Engineering Construction \$1,18,180 \$38,828 \$3226,200 \$7,14,367 \$3,74,000 \$3,147,716 \$21,180,260 \$44,999,806 \$14,24,47 10 227110 With Friend Sever Line and Related Structures \$5,88,888 \$228,309 \$500,852 \$51,551 \$3,561,000 \$51,017,000 \$56,990,666 \$14,24,87 (13) 227120 Oli and Gas Pepilere and Related Structures \$5,308,865 \$211,221 \$371,944 \$85,400 \$1,82,777 \$3,38,000 \$16,52,277 \$3,38,000 \$16,52,278 \$3,38,000 \$16,52,233 \$45,600,000 \$122,6 (19) 2272 Land Studwision \$311,562 \$77,777 \$302,800 \$70,533 \$1,75,277 \$3,38,277 \$7,389,400 \$16,52,233 \$55,460,633 \$40,102 \$35,5440,603 \$31,562 \$77,777 \$302,800 \$70,833 \$1,75,277 \$3,38,311 \$28,777 \$7,389,400 \$16,52,473 \$3,5440,603 \$3,640,603 \$3,640,603 \$3,640,603 \$3,640,603 \$3,640,603 \$3,640,603 \$3,640,603 \$3,64	(8) 236210	Industrial Building Construction	\$1,232,008	\$92,089	\$298,219	\$671,848	\$1,598,339	\$4,006,103	\$9,000,156	\$19,208,500	\$46,451,813	\$79,778,667
111 2371 Utility System Construction \$1,48,849 \$98,848 \$228,399 \$560,852 \$1,68,242 \$3,74,020 \$9,147,716 \$21,639,910 \$51,03,667 113 23710 Oll and Gas Pleeline and Related Structures Construction \$5,308,865 \$211,221 \$371,944 \$854,060 \$1,872,797 \$4,336,038 \$10,753,964 \$23,974,000 \$58,980,698 \$148,44 141 23710 Oll and Gas Pleeline and Related Structures Construction \$1,906,585 \$211,221 \$371,944 \$864,007 \$8,612,566 \$21,792,27 \$8,612,566 \$21,792,27 \$8,616,226 \$3,802,787 \$7,389,400 \$16,542,833 \$69,4 110 237210 Land Subdivision \$311,552 \$75,777 \$302,850 \$706,853 \$1,735,272 \$3,832,779 \$7,389,400 \$16,542,833 \$565,660,803 \$1,735,272 \$3,832,779 \$7,389,400 \$16,542,833 \$565,660,803 \$1,735,272 \$3,832,779 \$7,389,400 \$16,542,833 \$565,660,803 \$1,735,272 \$3,832,779 \$7,389,400 \$16,542,833 \$565,652,616 \$7,77	(9) 236220	Commercial and Institutional Building Construction	\$959,997	\$104,982	\$314,966	\$710,944	\$1,731,909	\$4,232,763	\$9,812,397	\$23,680,455	\$45,156,333	\$125,581,550
171 237110 Water and Sewer Line and Related Structures Construction 5748.265 \$88,129 \$272,225 \$551,564 \$1,575,513 \$3,681,092 \$8,348,060 \$19,052,717 \$42,848,667 (13) 237120 Oll and Cas Pleeline and Related Structures Construction \$5,308,865 \$211,221 \$371,944 \$86,703 \$5,861,564 \$1,0753,964 \$23,974,000 \$58,890,696 \$148,4 (14) 237120 Power and Communication Line and Related Structures Construction \$311,662 \$75,777 \$302,880 \$706,883 \$1,735,272 \$3,882,787 \$7,7684,000 \$16,542,833 \$69,4 (17) 2373 Land Stuchvision \$1,661,71 \$148,323 \$432,407 \$87,570 \$1,948,466 \$4,181,599 \$9,031,031 \$20,050,818 \$35,546,063 \$84,7 (17) 2373 Other Heavy and Civil Engineering Construction \$31,415 \$83,311 \$28,762 \$711,128 \$1,615,605 \$42,221,47 \$9,429,974 \$23,181,174 \$45,022,800 \$70,775 \$22,847 \$5,840,910 \$51,775,753 \$22,848,823 \$11,785,723 \$23,82,178 \$7,267,801,831,841 \$45,022,800 \$71,785 \$22,												\$142,413,092
Construction Same Science Same Science<												\$162,490,184
13 247120 Construction 130,20,600 51,12,21 537,144 530,000 51,12,12 537,144 530,000 51,12,12 537,144 530,000 51,12,12 537,144 530,000 51,12,12 537,144 530,000 51,152,172 53,34,40,073 58,612,596 521,27,323 545,069,000 516,22,33 580,000 51,61,775 530,280 570,673 530,280 570,673 530,272 53,332,787 57,399,400 51,65,142,333 580,640,03 584,73 530,640,63 584,73 530,640,63 584,73 530,640,63 584,74 530,640,63 584,74 530,640,63 584,74 530,640,63 584,74 530,640,63 584,74 530,640,63 584,74 530,640,63 547,74 530,650 54,282,147 59,426,974 523,199,174 546,003 586,640 584,74 530,640,03 51,641,63 546,64 587,72 53,333,742 53,342,677 553,423 53,646,063 54,767,75 530,433,11 520,503,118 555,540 520,750 547,757 530,333,727 53,3420,747 53,3420,747 53,3420,747 53,342,677 553,333 51,446,871	(12) 237110		\$748,265	\$88,129	\$278,225	\$651,564	\$1,575,513	\$3,651,092	\$8,348,060	\$19,052,717	\$42,848,667	
141 2471.30 Structures Construction 31,000,508 399,892 224,209 31,001,308 35,044,073 38,012,296 521,27,225 38,012,296 521,27,225 38,012,296 521,27,225 38,012,296 57,677 573,086,000 516,61,571 571,677 570,683 577,577 570,268,05 570,663 577,577 570,268,05 570,663 577,577 570,496,406 54,61,509 580,0131 520,503,818 535,540,603 584,747 (17) 2273 Other Heavy and Civil Engineering Construction \$11,61,571 \$14,83,32 \$42,477 \$87,757 \$50,406,407 \$51,61,505 \$4,282,147 \$84,0459 \$23,031,031 \$20,503,818 \$35,540,603 \$84,77 (19) 2379 Other Heavy and Civil Engineering Construction \$813,415 \$38,311 \$228,777 \$53,432,177 \$53,423,177 \$53,426,177 \$32,486,901 \$6,691,958 \$17,174 \$45,022,500 \$71,474,468 \$4,616,50 \$4,22,147 \$9,428,974 \$23,151,74 \$45,022,500 \$71,476 \$32,285,2516 \$71,14 \$1,616,150 \$2,291,164 \$6,691,958 \$17,191,468 \$6,691,958 \$17,191,468	(13) 237120	Construction	\$5,308,865	\$211,221	\$371,944	\$854,060	\$1,872,797	\$4,336,938	\$10,753,964	\$23,974,000	\$58,980,696	\$148,442,692
(if) 2372:10 Land Subdivision \$\$11,622 \$\$75,77 \$\$20,803 \$\$70,853 \$\$1,755,272 \$\$3,832,787 \$\$7,369,400 \$\$16,542,833 \$\$64,833 \$\$7,87,873 \$\$32,857,875 \$\$34,391,853 \$\$1,845,855 \$\$42,821,47 \$\$42,857,43 \$\$33,458,772 \$\$1,863,127 \$\$32,856,833 \$\$1,719,446,85 \$\$42,821,47 \$\$42,867,433 \$\$1,719,446,86 \$\$55,772 \$\$32,82,787 \$\$7,849,403 \$\$1,719,446,83 \$\$32,857,785 \$\$7,34,21 \$\$34,86,77 \$\$32,82,82,833 \$\$7,473 \$\$22,87,853 \$\$7,473 \$\$22,87,853 \$\$7,473 \$\$22,87,853 \$\$7,473 \$\$22,		Structures Construction									\$45,069,000	\$182,638,524
(17) 2373 Highway, Street, and Bridge Construction \$16,61,571 \$14,832 \$42,407 \$875,270 \$1,944,666 \$4,181,609 \$20,031,011 \$20,033,818 \$35,646,063 \$84,71 (19) 2379 Other Heavy and Civil Engineering Construction \$81,8145 \$83,911 \$298,762 \$711,126 \$1,615,805 \$4,222,147 \$9,426,974 \$23,159,174 \$45,022,500 (20) 23790 Other Heavy and Civil Engineering Construction \$81,8145 \$83,911 \$298,762 \$711,126 \$1,615,805 \$4,222,147 \$9,426,974 \$23,159,174 \$45,022,500 (21) 2381 Foundation, Structure, and Building Exterior \$373,420 \$58,554 \$202,365 \$447,280 \$1,225,744 \$2,911,648 \$6,691,958 \$17,191,236 \$33,418,150 \$71,37 (22) 23810 Framing Contractors \$1,104,738 \$100,217 \$258,566 \$590,833 \$1,444,621 \$3,338,792 \$7,187,957 \$22,486,381 \$43,165,000 (23) 238150 Giasa and Giazing Contractors \$21,114 \$50,513 \$244,145 \$1,384,857 \$24,2890 \$4,588,139 \$11,447,770 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$69,453,000</td></td<>												\$69,453,000
(16) 23730 Highway, Street, and Bridge Construction \$1,661,571 \$14,832 \$28,2407 \$87,570 \$1,494,466 \$4,411,509 \$9,031,031 \$20,503,816 \$35,546,063 \$84,71 (20) 237990 Other Heavy and Civil Engineering Construction \$813,415 \$83,911 \$298,762 \$711,126 \$1,615,805 \$4,282,147 \$9,426,974 \$23,169,174 \$45,022,500 (21) 238 Specialty Trade Contractors \$373,420 \$\$5,845,43 \$205,757 \$533,311 \$1,363,127 \$3,299,508 \$7,364,032 \$17,964,696 \$35,645,682,616 \$77,17 (22) 23810 Foundation, Structure, and Building Exterior \$373,420 \$\$68,654 \$202,365 \$47,400 \$1,166,416 \$2,868,901 \$6,691,955 \$17,191,236 \$33,418,150 \$71,37 (23) 238120 Structural Steel and Precast Concrete Contractors \$10,077 \$258,586 \$590,833 \$1,44,621 \$3,338,792 \$7,187,957 \$22,486,381 \$43,165,000 \$24,976 \$2,827,875 \$570,32,876 \$2,827,875 \$570,33,886,81 \$1,488,652 \$2,887,875 \$570,33,876 \$2,287,700 \$2,287,876 \$												\$69,453,000
(19) 2379 Other Heavy and Civil Engineering Construction \$813,415 \$83,911 \$288,762 \$711,126 \$1,615,805 \$4,22,147 \$9,426,974 \$23,159,714 \$45,022,000 (21) 238 Specially Trade Contractors \$31,415 \$\$3,3911 \$288,752 \$711,126 \$1,615,805 \$4,221,147 \$9,426,974 \$23,159,714 \$45,022,000 (22) 2381 Foundation, Structure, and Building Exterior \$37,420 \$58,554 \$202,365 \$487,200 \$1,257,744 \$5,040,32 \$1,71,91,236 \$33,418,150 \$71,32 (23) 228110 Poured Concrete Foundation and Structure Contractors \$468,674 \$70,175 \$205,730 \$476,403 \$1,166,416 \$2,868,901 \$6,691,958 \$17,191,236 \$3,34,18,150 \$71,33 (24) 238130 Framing Contractors \$1,104,738 \$100,217 \$258,566 \$50,033 \$1,446,21 \$3,338,792 \$7,187,957 \$22,486,381 \$43,416,500 (28) 238140 Gontractors \$230,9046 \$54,793 \$467,913 \$1,696,852 \$2,687,875 \$570,732 \$3,648,872 \$1,670,000 \$1,606,13 \$2												\$84,751,667
237990 Other Heavy and Civil Engineering Construction \$\$13,415 \$\$3,315 \$\$298,722 \$71,126 \$1,615,805 \$4,282,147 \$3,426,974 \$23,159,174 \$45,022,500 (2) 238 Specially Trade Contractors \$373,420 \$58,854 \$202,365 \$487,280 \$1,363,127 \$3,229,598 \$7,364,032 \$17,944,696 \$35,652,616 \$78,71 (2) 238110 Contractors \$373,420 \$58,854 \$202,365 \$487,280 \$1,166,416 \$2,868,901 \$6,691,958 \$17,191,236 \$33,418,150 \$71,371 (2) 238110 Contractors \$1,104,738 \$100,217 \$258,586 \$59,0833 \$1,446,61 \$2,868,901 \$6,691,958 \$17,191,236 \$33,418,150 \$71,371 (2) 238140 Masony Contractors \$51,047,789 \$52,448 \$451,913 \$1,146,718 \$51,047,055 \$5,653,857,557 \$57,048,448,219 \$11,437,750 \$12,677,000 \$12,677,000 \$13,448,872 \$13,448,872 \$13,448,872 \$13,448,873 \$14,452,873,85 \$5,703,286 \$13,448,873												\$84,751,667
(2) (23) Specialty Trade Contractors \$400,162 \$58,123 \$225,757 \$534,321 \$1,363,127 \$3,299,598 \$7,364,032 \$17,964,696 \$35,652,616 \$78,7 (22) 2381 Foundation, Structure, and Building Exterior Contractors \$373,420 \$58,554 \$202,365 \$467,280 \$1,225,744 \$2,911,648 \$6,691,958 \$17,964,696 \$33,652,616 \$78,7 (23) 23810 Foundation and Structure Contractors \$1,04,738 \$100,217 \$258,566 \$590,833 \$1,444,621 \$3,38,792 \$7,187,957 \$22,486,381 \$43,165,000 (24) 238120 Structural Steel and Precast Concrete Contractors \$1,104,738 \$100,217 \$258,586 \$590,833 \$1,444,621 \$3,38,792 \$7,187,957 \$22,486,381 \$43,165,000 (26) 238130 Framing Contractors \$214,118 \$50,919 \$16,780 \$396,861 \$1,047,865 \$2,49,135 \$1,150,112 \$28,673,755 \$57,032,266 \$14,347,750 \$11,26,77,000 (28) 238150 Glass and Glazing Contractors \$214,118 \$505,198 \$24,147 \$1,257,748 \$31,365,650 \$1,9												
C2 2381 Foundation, Structure, and Building Exterior Contractors \$373,420 \$58,554 \$202,365 \$487,280 \$1,225,744 \$2,911,643 \$6,606,470 \$16,677,253 \$32,682,853 \$71,4 (23) 238110 Contractors \$468,674 \$70,175 \$205,730 \$476,403 \$11,66,416 \$2,868,901 \$6,691,958 \$17,191,232 \$33,3418,150 \$71,87 (24) 238120 Structural Steel and Precast Concrete Contractors \$11,104,738 \$100,217 \$258,586 \$590,833 \$11,444,621 \$3,338,792 \$7,187,957 \$22,466,881 \$43,165,000 (26) 238140 Masony Contractors \$21,4718 \$50,919 \$167,890 \$336,861 \$1,048,665 \$2,463,990 \$4,588,139 \$11,437,750 \$12,677,000 \$12,677,000 \$12,677,913 \$1,056,510 \$8,055,650 \$13,448,872 \$13,448,872 \$13,448,872 \$13,448,872 \$13,448,872 \$13,448,872 \$13,448,872 \$13,448,872 \$13,448,872 \$13,448,872 \$13,448,872 \$13,848,772 \$13,857,030 \$3,34,482 \$7,729,861 \$												
(22) Contractors S373.20 S95,94 \$202,85 \$447,200 \$1,223,744 \$2,911,96 \$3,00,470 \$15,677,253 \$32,452,253 \$71,4 (23) 238110 Poured Concrete Foundation and Structure Contractors \$468,674 \$70,175 \$205,730 \$476,403 \$1,166,416 \$2,868,901 \$6,691,958 \$17,191,236 \$33,418,150 \$71,33 (24) 238120 Structural Steel and Precast Concrete Contractors \$1,104,738 \$100,217 \$258,586 \$590,833 \$1,444,621 \$3,338,792 \$7,187,957 \$22,486,381 \$43,165,000 (26) 238130 Framing Contractors \$214,1118 \$50,919 \$167,890 \$396,851 \$1,444,621 \$3,338,792 \$7,187,957 \$22,486,381 \$43,165,000 (27) 238150 Glass and Glazing Contractors \$539,406 \$54,244 \$511,917,78 \$446,877,913 \$1,159,541 \$2,607,875 \$51,347,487 \$41,471 \$2,468,774 \$54,703 \$11,486,784 \$44,8872 \$13,448,872 \$12,677,000 \$13,448,472 \$13,448,472 \$2,8170,861 \$11,086,133 \$12,677,000 \$11,086,133 \$12,677,000 \$11,086,133 <td>(21) 238</td> <td>Specialty Trade Contractors</td> <td>\$400,162</td> <td>\$58,123</td> <td>\$225,757</td> <td>\$534,321</td> <td>\$1,363,127</td> <td>\$3,299,598</td> <td>\$7,364,032</td> <td>\$17,964,696</td> <td>\$35,652,616</td> <td>\$78,777,627</td>	(21) 238	Specialty Trade Contractors	\$400,162	\$58,123	\$225,757	\$534,321	\$1,363,127	\$3,299,598	\$7,364,032	\$17,964,696	\$35,652,616	\$78,777,627
238110 Contractors \$466,674 \$70,175 \$226,730 \$476,403 \$1,166,416 \$2,866,901 \$50,919,58 \$17,19,256 \$33,418,190 \$17,13 (24) 238120 Structural Steel and Precast Concrete Contractors \$1,104,738 \$100,217 \$258,586 \$590,833 \$1,44,4621 \$3,33,8792 \$7,187,957 \$22,486,381 \$43,165,000 (25) 238130 Framing Contractors \$214,118 \$50,919 \$167,890 \$396,851 \$1,048,665 \$2,463,990 \$4,588,139 \$11,437,750 \$12,677,000 (28) 238150 Glass and Glazing Contractors \$526,599 \$69,133 \$245,114 \$615,848 \$1,491,017 \$3,266,550 \$8,552,537 \$17,869,444 (28) 238170 Siding Contractors \$380,803 \$8,616 \$1,092,913 \$2,608,630 \$5,438,750 (30) 238190 Other Foundation, Structure, and Building Exterior Contractors \$369,331 \$249,663 \$584,457 \$1,486,088 \$3,607,686 \$8,161,795 \$19,663,464 \$40,564,446 \$98,4 (33) 238200 Contractors \$1,195,908 \$249,693 \$544,525 <td>(22) 2381</td> <td>Contractors</td> <td>\$373,420</td> <td>\$58,554</td> <td>\$202,365</td> <td>\$487,280</td> <td>\$1,225,744</td> <td>\$2,911,648</td> <td>\$6,306,470</td> <td>\$15,677,253</td> <td>\$32,852,853</td> <td>\$71,418,176</td>	(22) 2381	Contractors	\$373,420	\$58,554	\$202,365	\$487,280	\$1,225,744	\$2,911,648	\$6,306,470	\$15,677,253	\$32,852,853	\$71,418,176
238130 Framing Contractors \$214,118 \$50,919 \$167,890 \$396,851 \$1,048,665 \$2,463,990 \$4,588,139 \$11,437,750 \$12,677,000 (26) 238140 Masonry Contractors \$309,406 \$54,244 \$191,978 \$457,913 \$1,159,541 \$2,687,875 \$5,703,286 \$13,448,872 (27) 238150 Glass and Glazing Contractors \$309,406 \$54,244 \$191,978 \$457,913 \$1,422,966 \$52,937 \$17,869,444 (28) 238170 Siding Contractors \$368,803 \$56,739 \$227,145 \$534,705 \$1,357,908 \$3,344,826 \$7,229,861 \$15,933,286 (30) 238120 Contractors and Other Wiring Installation Contractors \$535,330 \$64,232 \$246,862 \$583,769 \$1,500,009 \$3,710,021 \$8,282,906 \$19,780,326 \$40,321,538 \$89,57 (31) 23820 Contractors and Other Wiring Installation Contractors \$1,195,908 \$29,255 \$240,001 \$569,918 \$1,466,914 \$3,677,613 \$8,079,472 \$19,948,597 \$41,764,125 \$81,81 (34) 238200 Other Building Equipment Contractors	(23) 238110		\$468,674	\$70,175	\$205,730	\$476,403	\$1,166,416	\$2,868,901	\$6,691,958	\$17,191,236	\$33,418,150	\$71,399,273
(26) 238140 Masony Contractors \$309,406 \$54,244 \$191,978 \$457,913 \$1,159,541 \$2,687,875 \$5,703,286 \$13,448,872 (27) 238160 Going Contractors \$252,599 \$69,513 \$245,114 \$615,848 \$1,491,017 \$3,565,550 \$8,552,537 \$17,889,444 (28) 238170 Siding Contractors \$162,288 \$45,913 \$184,748 \$451,186 \$1,092,913 \$2,608,630 \$5,438,750 (30) 238190 Other Foundation, Structure, and Building Exterior Contractors \$162,288 \$45,913 \$184,748 \$451,186 \$1,092,913 \$2,608,630 \$5,438,750 (31) 2382 Building Equipment Contractors \$535,330 \$64,232 \$246,862 \$583,769 \$1,500,009 \$3,710,021 \$8,282,906 \$19,780,326 \$40,321,538 \$89,57 (32) 238210 Contractors and Other Wiring Installation Contractors \$54,586 \$63,931 \$249,693 \$564,515 \$1,486,088 \$3,607,686 \$8,161,795 \$19,963,464 \$40,564,446 \$98,457 (33) 238200 Contractors \$11,95,908 \$92,825	(24) 238120	Structural Steel and Precast Concrete Contractors	\$1,104,738	\$100,217	\$258,586	\$590,833	\$1,444,621	\$3,338,792	\$7,187,957	\$22,486,381	\$43,165,000	
(27) 238150 Glass and Glazing Contractors \$525,599 \$69,513 \$245,114 \$615,848 \$1,491,017 \$3,565,550 \$8,552,537 \$17,869,444 (28) 238160 Roofing Contractors \$380,30 \$58,166 \$210,573 \$491,417 \$1,242,966 \$2,913,287 \$6,055,601 \$11,086,133 (29) 238170 Siding Contractors \$162,288 \$45,913 \$184,748 \$451,186 \$1,092,913 \$2,608,630 \$5,438,750 (30) 238100 Other Foundation, Structure, and Building Exterior Contractors \$369,339 \$56,739 \$227,145 \$534,769 \$1,500,009 \$3,710,021 \$8,282,906 \$19,780,326 \$40,321,538 \$89,50 (31) 238210 Electrical Contractors and Other Wiring Installation Contractors \$535,330 \$64,232 \$246,862 \$583,769 \$1,486,088 \$3,607,686 \$8,161,795 \$19,963,464 \$40,564,446 \$98,47 (33) 238220 Plumbing, Heating, and Air-Conditioning Contractors \$1,959,908 \$92,825 \$317,852 \$39,329 \$1,832,206 \$4,422,617 \$9,680,806 \$19,491,433 \$89,60 \$26,143,333 \$89,03 <td>(25) 238130</td> <td>Framing Contractors</td> <td>\$214,118</td> <td>\$50,919</td> <td>\$167,890</td> <td>\$396,851</td> <td>\$1,048,665</td> <td>\$2,463,990</td> <td>\$4,588,139</td> <td>\$11,437,750</td> <td>\$12,677,000</td> <td></td>	(25) 238130	Framing Contractors	\$214,118	\$50,919	\$167,890	\$396,851	\$1,048,665	\$2,463,990	\$4,588,139	\$11,437,750	\$12,677,000	
(28) 238160 Roofing Contractors \$330,830 \$58,166 \$210,573 \$491,417 \$1,42,966 \$2,913,287 \$6,055,601 \$11,086,133 (29) 238170 Siding Contractors \$162,288 \$45,913 \$184,748 \$451,186 \$1,092,913 \$2,608,630 \$5,438,750 (30) 238190 Contractors \$369,339 \$56,739 \$227,145 \$534,705 \$1,357,908 \$3,344,826 \$7,229,861 \$15,933,286 (31) 2382 Building Equipment Contractors \$535,330 \$64,232 \$246,862 \$583,769 \$1,500,009 \$3,710,021 \$8,282,906 \$19,780,326 \$40,321,538 \$89,57 (31) 23820 Contractors and Other Wiring Installation Contractors \$534,586 \$63,931 \$249,693 \$584,457 \$1,486,088 \$3,607,646 \$8,161,795 \$19,663,464 \$40,564,446 \$98,40 (33) 238200 Other Building Equipment Contractors \$1,195,908 \$92,825 \$317,852 \$739,329 \$1,832,206 \$4,422,617 \$9,680,806 \$19,431,000 \$26,149,333 \$89,00 (34) 238290 Other Building Enishing Co	(26) 238140	Masonry Contractors	\$309,406	\$54,244	\$191,978	\$457,913	\$1,159,541	\$2,687,875	\$5,703,286	\$13,448,872		
(29) 238170 Siding Contractors \$162,288 \$45,913 \$184,748 \$451,186 \$1,092,913 \$2,608,630 \$5,438,750 (30) 238190 Other Foundation, Structure, and Building Exterior Contractors \$369,339 \$56,739 \$227,145 \$534,705 \$1,357,908 \$3,344,826 \$7,229,861 \$15,933,286 (31) 2382 Building Equipment Contractors and Other Wiring Installation Contractors \$534,586 \$66,391 \$249,693 \$584,457 \$1,486,088 \$3,607,686 \$8,161,795 \$19,663,464 \$40,321,538 \$89,51 (32) 238220 Plumbing, Heating, and Air-Conditioning Contractors \$54,586 \$62,955 \$240,001 \$569,918 \$1,466,914 \$3,677,613 \$8,079,472 \$19,948,597 \$41,764,125 \$81,89,053 (33) 238220 Other Building Equipment Contractors \$1,195,098 \$92,825 \$317,852 \$739,329 \$1,832,206 \$4,422,617 \$9,680,806 \$19,431,000 \$26,149,333 \$89,0 (34) 238290 Other Building Finishing Contractors \$1,195,098 \$262,293 \$47,470 \$202,183 \$466,159 \$1,198,252 \$28,57,068 \$1		Glass and Glazing Contractors	\$525,599	\$69,513		\$615,848	\$1,491,017	\$3,565,550	\$8,552,537	\$17,869,444		
Contractors Statistic	(28) 238160	Roofing Contractors	\$380,830	\$58,166	\$210,573	\$491,417	\$1,242,966	\$2,913,287	\$6,055,601	\$11,086,133		
(30) 238190 Contractors \$359,339 \$356,739 \$227,145 \$353,705 \$1,357,908 \$3,344,626 \$7,229,801 \$15,933,286 (31) 2382 Building Equipment Contractors \$535,330 \$64,232 \$246,862 \$583,769 \$1,500,009 \$3,710,021 \$8,882,906 \$19,780,326 \$40,321,538 \$89,51 (32) 238210 Contractors Bilding Equipment Contractors \$534,586 \$62,955 \$240,001 \$569,918 \$1,466,914 \$3,677,613 \$8,079,472 \$19,948,597 \$41,764,125 \$81,86 (34) 238200 Other Building Equipment Contractors \$19,9508 \$92,825 \$317,852 \$739,329 \$1,832,206 \$4,422,617 \$9,680,806 \$19,431,000 \$26,149,333 \$89,03 (34) 238230 Dhymaliand Insulation Contractors \$262,293 \$47,470 \$202,183 \$466,159 \$1,198,252 \$2,857,096 \$6,562,895 \$16,291,980 \$23,350,867 \$58,4 (34) 238300 Dhymalian and Insulation Contractors \$147,494 \$43,330 \$202,183 \$464,6159 \$1,198,252 \$2,857,096 \$6,562,895 \$1	(29) 238170		\$162,288	\$45,913	\$184,748	\$451,186	\$1,092,913	\$2,608,630	\$5,438,750			
(31) 2382 Building Equipment Contractors \$535,330 \$64,232 \$246,862 \$583,769 \$1,500,009 \$3,710,021 \$8,282,906 \$19,780,326 \$40,321,538 \$89,50 (32) 238210 Electrical Contractors and Other Wiring Installation Contractors \$534,586 \$63,931 \$249,693 \$584,457 \$1,486,088 \$3,607,686 \$8,161,795 \$19,663,464 \$40,564,446 \$98,4 (33) 238200 Plumbing, Heating, and Air-Conditioning Contractors \$489,857 \$62,955 \$240,001 \$569,918 \$1,466,914 \$3,677,613 \$8,079,472 \$19,948,597 \$41,764,125 \$81,80 (34) 238200 Other Building Equipment Contractors \$1,195,908 \$92,825 \$317,852 \$739,329 \$1,832,206 \$4,422,617 \$9,680,806 \$19,431,000 \$26,149,333 \$89,00 (35) 23830 Building Finishing Contractors \$262,293 \$47,470 \$202,183 \$466,159 \$1,198,252 \$2,857,096 \$6,562,895 \$16,291,980 \$23,305,687 \$58,44 \$38330 \$100 rig Contractors \$262,401 \$55,383 \$203,581 \$457,700 \$1,179,012 \$2,868,803	(30) 238190		\$369,339	\$56,739	\$227,145	\$534,705	\$1,357,908	\$3,344,826	\$7,229,861	\$15,933,286		
(32) 238210 Contractors \$533,936 \$533,931 \$249,693 \$564,577 \$1,486,088 \$3,607,686 \$8,161,795 \$19,683,464 \$40,564,446 \$98,4 (33) 238220 Plumbing, Heating, and Air-Conditioning Contractors \$489,857 \$62,955 \$240,001 \$569,918 \$1,466,914 \$3,677,613 \$8,079,472 \$19,948,597 \$41,764,125 \$81,81 (34) 238290 Other Building Equipment Contractors \$1,195,908 \$92,825 \$317,852 \$739,329 \$1,832,206 \$4,422,617 \$9,680,806 \$19,431,000 \$26,149,333 \$89,00 (35) 23830 Dirywall and Insulation Contractors \$262,293 \$47,470 \$202,183 \$466,159 \$1,198,252 \$2,868,893 \$6,562,895 \$16,291,980 \$23,350,867 \$58,4 (36) 238310 Drywall and Insulation Contractors \$164,495 \$191,418 \$435,656 \$1,171,70,012 \$2,868,893 \$6,363,125 \$17,350,653 \$26,757,950 \$74,88 (38) 238300 Flooring Contractors \$167,930 \$208,828 \$1246,701 \$3,227,190 \$6,429,303 \$15,174,750 \$19,913,	(31) 2382	Building Equipment Contractors	\$535,330	\$64,232	\$246,862	\$583,769	\$1,500,009	\$3,710,021	\$8,282,906	\$19,780,326	\$40,321,538	\$89,520,821
(3) 236220 Contractors 3463,677 362,937 342,953 3424,001 3669,916 31,460,914 35,077,013 36,079,472 319,946,397 941,764,123 \$61,704,712 \$19,946,397 \$41,764,123 \$61,704,712 \$19,946,397 \$41,764,123 \$61,704,712 \$19,946,397 \$41,764,123 \$61,704,712 \$19,946,397 \$41,764,123 \$61,704,212 \$19,946,397 \$41,764,123 \$61,704,212 \$19,946,397 \$41,764,123 \$61,704,213 \$61,701 \$30,077,013 \$6,079,472 \$19,946,397 \$41,764,123 \$61,703 \$60,91,942 \$19,946,397 \$41,764,123 \$61,703 \$60,91,942 \$19,946,397 \$41,764,123 \$61,703 \$60,91,942 \$19,946,397 \$41,764,123 \$61,703 \$60,91,942 \$19,946,397 \$41,764,123 \$61,703 \$60,91,946 \$19,431,000 \$21,491,933 \$89,00 \$61,413 \$61,413 \$61,413 \$61,413 \$61,413 \$61,414 \$43,930 \$61,419,143 \$44,35,656 \$1,171,426 \$2,617,711 \$6,420,003 \$15,014,750 \$13,91,913,200 \$14,914,333 \$19,913,200 \$14,914,333 \$20,213 \$44,35656 \$1,171,426 \$2,617,711 <td>(32) 238210</td> <td>Contractors</td> <td>\$534,586</td> <td>\$63,931</td> <td>\$249,693</td> <td>\$584,457</td> <td>\$1,486,088</td> <td>\$3,607,686</td> <td>\$8,161,795</td> <td>\$19,663,464</td> <td>\$40,564,446</td> <td>\$98,465,933</td>	(32) 238210	Contractors	\$534,586	\$63,931	\$249,693	\$584,457	\$1,486,088	\$3,607,686	\$8,161,795	\$19,663,464	\$40,564,446	\$98,465,933
(35) 2383 Building Finishing Contractors \$262,293 \$47,470 \$202,183 \$466,159 \$1,198,252 \$2,857,096 \$6,562,895 \$16,291,980 \$23,350,867 \$58,44 (36) 238310 Drywall and Insulation Contractors \$562,401 \$55,383 \$203,581 \$457,700 \$1,179,012 \$2,868,893 \$6,836,125 \$17,350,653 \$26,757,950 \$74,80 (37) 238320 Painting and Wall Covering Contractors \$194,370 \$46,495 \$191,418 \$435,656 \$1,171,426 \$2,617,312 \$6,134,008 \$14,358,150 \$19,913,200 \$47,470 \$202,882 \$52,4680 \$1,247,701 \$2,647,701 \$6,22,903 \$15,014,750 \$187,494 \$43,930 \$208,282 \$52,4680 \$1,245,701 \$6,249,030 \$15,014,750 \$167,923 \$217,307 \$43,341 \$195,020 \$455,708 \$1,218,073 \$2,844,423 \$5,446,025 \$14,001,143 \$167,923 \$457,707 \$208,602 \$474,666 \$1,212,653 \$2,877,089 \$6,289,848 \$12,18,8067 \$167,900 \$141,918,333 \$5,757,000 \$433,930 \$202,183 \$45,707 \$208,602 \$474,666 \$1,212,			\$489,857			\$569,918	\$1,466,914	\$3,677,613	\$8,079,472	\$19,948,597	\$41,764,125	\$81,806,647
(36) 238310 Drywall and Insulation Contractors \$562,401 \$55,383 \$203,581 \$457,700 \$1,179,012 \$2,868,893 \$6,836,125 \$17,350,653 \$26,757,950 \$74,81 (37) 238320 Painting and Wall Covering Contractors \$194,370 \$46,495 \$191,418 \$435,656 \$1,171,426 \$2,617,312 \$6,134,008 \$14,358,150 \$19,913,200 (38) 238330 Flooring Contractors \$197,490 \$208,282 \$524,608 \$1,245,701 \$3,227,190 \$6,420,003 \$15,014,750 (39) 238340 Tile and Terrazzo Contractors \$217,307 \$43,341 \$195,020 \$455,708 \$1,218,073 \$2,844,423 \$5,446,025 \$14,001,143 (40) 238350 Finish Carpentry Contractors \$167,923 \$45,707 \$208,602 \$474,686 \$1,212,653 \$2,877,679 \$14,918,333 \$5,757,000 (41) 238390 Other Building Finishing Contractors \$167,923 \$453,707 \$208,602 \$474,686 \$1,239,421 \$3,042,897 \$6,947,679 \$14,918,333 \$5,75			\$1,195,908	\$92,825		\$739,329	\$1,832,206	\$4,422,617	\$9,680,806	\$19,431,000	\$26,149,333	\$89,087,143
(37) 238320 Painting and Wall Covering Contractors \$194,370 \$46,495 \$191,418 \$435,656 \$1,171,426 \$2,617,312 \$6,134,008 \$14,358,150 \$19,913,200 (38) 238330 Flooring Contractors \$187,494 \$43,930 \$208,282 \$524,680 \$1,245,701 \$3,227,190 \$6,420,930 \$15,014,750 (39) 238340 Tile and Terrazzo Contractors \$217,307 \$43,341 \$195,020 \$455,708 \$1,218,073 \$2,844,423 \$5,446,025 \$14,001,143 (40) 238350 Finish Carpentry Contractors \$167,923 \$45,707 \$208,602 \$474,686 \$1,212,653 \$2,877,089 \$6,828,848 \$12,889,667 (41) 238390 Other Building Finishing Contractors \$401,947 \$59,940 \$222,158 \$505,068 \$1,239,421 \$3,042,897 \$6,947,679 \$4,4,918,333 \$5,757,000 (42) 2389 Other Specialty Trade Contractors \$338,362 \$63,541 \$237,305 \$554,888 \$1,377,274 \$3,229,191 \$6,883,834 \$16,754,215 \$29,562,133 \$44,35	(35) 2383	Building Finishing Contractors	\$262,293	\$47,470	\$202,183	\$466,159	\$1,198,252	\$2,857,096	\$6,562,895	\$16,291,980	\$23,350,867	\$58,462,000
(38) 238330 Flooring Contractors \$187,494 \$43,930 \$208,282 \$524,680 \$1,245,701 \$3,227,190 \$6,420,930 \$15,014,750 (39) 238340 Tile and Terrazzo Contractors \$217,307 \$43,341 \$195,020 \$455,708 \$1,218,073 \$2,844,423 \$5,446,025 \$14,001,143 (40) 238350 Finish Carpentry Contractors \$167,092 \$45,707 \$208,602 \$474,686 \$1,212,653 \$2,877,089 \$6,849,848 \$12,889,667 (41) 238390 Other Building Finishing Contractors \$401,947 \$59,940 \$222,158 \$505,068 \$1,239,421 \$3,042,897 \$6,947,679 \$14,918,333 \$5,757,000 (42) 23890 Other Specialty Trade Contractors \$338,362 \$63,511 \$237,305 \$554,898 \$1,377,274 \$3,229,191 \$6,883,834 \$16,754,215 \$29,562,133 \$44,33	(36) 238310	Drywall and Insulation Contractors	\$562,401	\$55,383	\$203,581	\$457,700	\$1,179,012	\$2,868,893	\$6,836,125	\$17,350,653	\$26,757,950	\$74,895,667
(38) 238330 Flooring Contractors \$187,494 \$43,930 \$208,282 \$524,680 \$1,245,701 \$3,227,190 \$6,420,930 \$15,014,750 (39) 238340 Tile and Terrazzo Contractors \$217,307 \$43,341 \$195,020 \$455,708 \$1,218,073 \$2,844,423 \$5,446,025 \$14,001,143 (40) 238360 Finish Carpentry Contractors \$167,923 \$45,707 \$208,602 \$474,686 \$1,212,653 \$2,877,089 \$6,898,848 \$12,889,667 (41) 238390 Other Building Finishing Contractors \$401,947 \$59,940 \$222,188 \$505,068 \$1,239,421 \$3,042,897 \$6,947,679 \$14,918,333 \$5,757,000 (42) 2389 Other Specialty Trade Contractors \$338,362 \$63,511 \$237,305 \$554,898 \$1,377,274 \$3,229,191 \$6,883,834 \$16,754,215 \$29,562,133 \$44,33	(37) 238320	Painting and Wall Covering Contractors	\$194,370	\$46,495	\$191,418	\$435,656	\$1,171,426	\$2,617,312	\$6,134,008	\$14,358,150	\$19,913,200	
(39) 238340 Tile and Terrazzo Contractors \$217,307 \$43,341 \$195,020 \$455,708 \$1,218,073 \$2,844,423 \$5,446,025 \$14,001,143 (40) 238350 Finish Carpentry Contractors \$167,923 \$45,707 \$208,602 \$474,686 \$1,212,653 \$2,877,089 \$6,289,848 \$12,889,667 (41) 238390 Other Building Finishing Contractors \$401,947 \$59,940 \$222,158 \$505,068 \$1,239,421 \$3,042,897 \$6,947,679 \$14,918,333 \$5,757,000 (42) 23890 Other Specialty Trade Contractors \$338,362 \$63,511 \$237,305 \$554,888 \$1,377,274 \$3,229,191 \$6,883,834 \$16,754,215 \$29,562,133 \$44,33	(38) 238330			\$43,930			\$1,245,701					
(40) 238350 Finish Carpentry Contractors \$167,923 \$45,707 \$208,602 \$474,686 \$1,212,653 \$2,877,089 \$6,289,848 \$12,889,667 (41) 238390 Other Building Finishing Contractors \$401,947 \$59,940 \$222,158 \$505,068 \$1,239,421 \$3,042,897 \$6,947,679 \$14,918,333 \$5,757,000 (42) 2389 Other Specialty Trade Contractors \$338,362 \$63,541 \$237,305 \$554,898 \$1,377,274 \$3,229,191 \$6,883,834 \$16,754,215 \$29,562,133 \$44,33	(39) 238340		\$217,307	\$43,341								
(41) 238390 Other Building Finishing Contractors \$401,947 \$59,940 \$222,158 \$505,068 \$1,239,421 \$3,042,897 \$6,947,679 \$14,918,333 \$5,757,000 (42) 2389 Other Specialty Trade Contractors \$338,362 \$63,541 \$237,305 \$554,898 \$1,377,274 \$3,229,191 \$6,883,834 \$16,754,215 \$29,562,133 \$44,33												
(42) 2389 Other Specialty Trade Contractors \$\$338,362 \$63,541 \$237,305 \$554,898 \$1,377,274 \$3,229,191 \$6,883,834 \$16,754,215 \$29,562,133 \$44,33	(41) 238390										\$5,757,000	
												\$44,381,600
(+) 200310 Site Freparation Contractions = \$300,230 \$02,100 \$243,023 \$314,144 \$1,422,331 \$3,200,333 \$1,013,570 \$17,005,018 \$31,343,121	(43) 238910	Site Preparation Contractors	\$388,258	\$62,700	\$243,823	\$574,744	\$1,422,357	\$3,266,953	\$7,013,570	\$17,605,018	\$31,343,727	
												\$53,764,750
												\$111,414,981

Appendix Table E.5 Construction Firms, Nationwide, Excluding Sole Proprietorships, by Number of Employees, County Business Patterns 2008

(4) 2361 (5) 2361 (6) 2362 (7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2371 (14) 2371 (15) 2372 (16) 2372 (17) 2373 (19) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (30) 2381 (30) 2382 (31) 2382 (32) 2382 (33) 2382	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
(1) 236 (2) 2361 (3) 2361 (4) 2361 (5) 2361 (6) 2361 (7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2371 (14) 2371 (15) 2372 (16) 2372 (17) 2373 (18) 2373 (19) 2379 (20) 2378 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (30) 2382 (31) 2382 (32) 2382 (33) 2382	00.044	In duction Contan	Total	- :	1-4		ounts by Nun		oyees 10-19		
(2) 2361 (3) 2361 (4) 2361 (5) 2361 (6) 2361 (7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2372 (16) 2372 (17) 2373 (18) 2379 (20) 2379 (21) 2381 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (30) 2382 (31) 2382 (32) 2382 (33) 2382	CS Code	Industry Sector	N	Firms %	1-4 N	۱ <u>%</u>	<u>5-9</u> N	%	10-1 N	19 %	
(2) 2361 (3) 2361 (4) 2361 (5) 2361 (6) 2361 (7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2372 (16) 2372 (17) 2373 (18) 2379 (20) 2379 (21) 2381 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (30) 2382 (31) 2382 (32) 2382 (33) 2382		Construction of Buildings	191,073	7 6 100.0%	131,096	68.6%	29,860	15.6%	16,373	8.6%	
(3) 2361 (4) 2361 (5) 2361 (6) 2361 (7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2371 (14) 2371 (15) 2372 (16) 2372 (17) 2373 (19) 2379 (20) 2375 (21) 2381 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (30) 2382 (31) 2382 (32) 2382 (33) 2382		Construction of Buildings	191,073								
(4) 2361 (5) 2361 (6) 2362 (7) 232 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2371 (14) 2371 (15) 2372 (16) 2372 (17) 2373 (19) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (30) 2381 (31) 2382 (32) 2382 (33) 2382 (33) 2382		Residential Building Construction	149,885	100.0%	113,314	75.6%	21,659	14.5%	9,335	6.2%	
(5) 2361 (6) 2361 (7) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2371 (14) 2371 (15) 2372 (16) 2372 (17) 2373 (18) 2373 (19) 2373 (20) 2378 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (26) 2381 (30) 2382 (31) 2382 (32) 2382 (33) 2382	30115	New Single-Family Housing Construction (except Operative Builders)	55,436	100.0%	41,580	75.0%	8,673	15.6%	3,565	6.4%	
(6) 2361 (7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2371 (14) 2371 (15) 2372 (16) 2372 (17) 2373 (19) 2379 (20) 2379 (21) 2381 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (30) 2381 (31) 2382 (32) 2382 (33) 2382 (33) 2382		New Multifamily Housing Construction (except Operative Builders)	3,527	100.0%	2,052	58.2%	573	16.2%	421	11.9%	
(7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2371 (14) 2371 (15) 2372 (16) 2372 (17) 2373 (18) 2373 (19) 2372 (20) 2376 (20) 2378 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (28) 2381 (30) 2382 (31) 2382 (32) 2382	36117	New Housing Operative Builders	21,657	100.0%	15,098	69.7%	3,459	16.0%	1,552	7.2%	
(8) 2362 (9) 2362 (11) 2371 (11) 2371 (12) 2371 (13) 2371 (14) 2372 (15) 2372 (16) 2372 (17) 2373 (18) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (30) 2381 (30) 2382 (32) 2382 (33) 2382 (33) 2382	36118	Residential Remodelers	69,265	100.0%	54,584	78.8%	8,954	12.9%	3,797	5.5%	
(9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2371 (14) 2371 (15) 2372 (16) 2372 (17) 2373 (18) 2379 (20) 2373 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (28) 2381 (29) 2381 (30) 2382 (33) 2382 (34) 2382 (32) 2382 (33) 2382	62	Nonresidential Building Construction	41,188	100.0%	17,782	43.2%	8,201	19.9%	7,038	17.1%	
(10) 237 (11) 2371 (12) 2371 (13) 2371 (14) 2372 (14) 2372 (15) 2372 (17) 2373 (18) 2379 (20) 2379 (21) 2381 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (30) 2382 (30) 2382 (32) 2382 (32) 2382 (33) 2382	36210	Industrial Building Construction	3,172	100.0%	1,401	44.2%	644	20.3%	509	16.0%	
(11) 2371 (12) 2371 (13) 2371 (14) 2371 (15) 2372 (17) 2373 (19) 2379 (20) 2379 (21) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 238 (28) 2381 (29) 2381 (20) 2381 (30) 2381 (30) 2381 (31) 2382 (32) 2382 (33) 2382	36220	Commercial and Institutional Building Construction	38,016	100.0%	16,381	43.1%	7,557	19.9%	6,529	17.2%	
(12) 2371 (13) 2371 (14) 2372 (15) 2372 (16) 2372 (17) 2373 (18) 2373 (19) 2373 (20) 2379 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (28) 2381 (30) 2382 (31) 2382 (32) 2382 (33) 2382 (33) 2382		Heavy and Civil Engineering Construction	42,852	100.0%	20,623	48.1%	7,610	17.8%	6,010	14.0%	
(13) 2371 (14) 2372 (15) 2372 (17) 2373 (19) 2379 (20) 2372 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 238 (28) 2381 (29) 2381 (30) 2381 (31) 2382 (32) 2382 (33) 2382 (33) 2382	71	Utility System Construction	18,170	100.0%	7,185	39.5%	3,674	20.2%	3,021	16.6%	
(14) 2371 (15) 2372 (16) 2373 (17) 2373 (18) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (28) 2381 (29) 2381 (30) 2381 (31) 2382 (32) 2382 (32) 2382 (33) 2382	37110	Water and Sewer Line and Related Structures Construction	11,358	100.0%	4,730	41.6%	2,524	22.2%	1,903	16.8%	
(15) 2372 (16) 2373 (17) 2373 (18) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2384 (28) 2381 (29) 2381 (30) 2382 (32) 2382 (33) 2382	37120	Oil and Gas Pipeline and Related Structures Construction	1,779	100.0%	502	28.2%	236	13.3%	271	15.2%	
(15) 2372 (16) 2373 (17) 2373 (18) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2384 (27) 2381 (28) 2381 (29) 2381 (30) 2382 (32) 2382 (33) 2382		Power and Communication Line and Related	5,033	100.0%	1,953	38.8%	914	18.2%	847	16.8%	
(16) 2372 (17) 2373 (18) 2373 (19) 2373 (19) 2373 (20) 2373 (21) 2381 (22) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (28) 2381 (29) 2381 (30) 2381 (31) 2382 (32) 2382 (33) 2382		Structures Construction									
(17) 2373 (18) 2373 (18) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (28) 2381 (29) 2381 (30) 2381 (31) 2382 (32) 2382 (33) 2382		Land Subdivision	10,121	100.0%	7,570	74.8%	1,390	13.7%	681	6.7%	
(18) 2373 (19) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2384 (28) 2381 (29) 2381 (30) 2382 (32) 2382 (32) 2382 (33) 2382	37210	Land Subdivision	10,121	100.0%	7,570	74.8%	1,390	13.7%	681	6.7%	
(19) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (28) 2381 (29) 2381 (20) 2381 (30) 2382 (31) 2382 (32) 2382 (33) 2382	73	Highway, Street, and Bridge Construction	10,449	100.0%	3,758	36.0%	1,789	17.1%	1,733	16.6%	
(20) 2379 (21) 238 (22) 2381 (23) 2381 (24) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (28) 2381 (29) 2381 (30) 2382 (31) 2382 (32) 2382 (33) 2382	37310	Highway, Street, and Bridge Construction	10,449	100.0%	3,758	36.0%	1,789	17.1%	1,733	16.6%	
(21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (28) 2381 (29) 2381 (30) 2381 (31) 2382 (32) 2382 (33) 2382	79	Other Heavy and Civil Engineering Construction	4,112	100.0%	2,110	51.3%	757	18.4%	575	14.0%	
(21) 238 (22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (28) 2381 (29) 2381 (30) 2382 (32) 2382 (33) 2382	37990	Other Heavy and Civil Engineering Construction	4,112	100.0%	2,110	51.3%	757	18.4%	575	14.0%	
(22) 2381 (23) 2381 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (28) 2381 (28) 2381 (30) 2382 (32) 2382 (33) 2382 (33) 2382		Specialty Trade Contractors	389,407	100.0%	224,785	57.7%	72,215	18.5%	47,064	12.1%	
 (24) 2381 (25) 2381 (26) 2381 (27) 2381 (28) 2381 (29) 2381 (30) 2381 (31) 2382 (32) 2382 (32) 2382 (33) 2382 	31	Foundation, Structure, and Building Exterior Contractors	82,023	100.0%	45,960	56.0%	15,515	18.9%	10,168	12.4%	
(25) 2381 (26) 2381 (27) 2381 (28) 2381 (30) 2382 (32) 2382 (33) 2382	38110	Poured Concrete Foundation and Structure Contractors	18,855	100.0%	9,825	52.1%	3,771	20.0%	2,591	13.7%	
(26) 2381 (27) 2381 (28) 2381 (29) 2381 (30) 2382 (32) 2382 (33) 2382	38120	Structural Steel and Precast Concrete Contractors	3,318	100.0%	1,092	32.9%	642	19.3%	589	17.8%	
(26) 2381 (27) 2381 (28) 2381 (29) 2381 (30) 2382 (32) 2382 (33) 2382	38130	Framing Contractors	11,101	100.0%	7,189	64.8%	2,127	19.2%	945	8.5%	
(27) 2381 (28) 2381 (29) 2381 (30) 2381 (31) 2382 (32) 2382 (33) 2382		Masonry Contractors	17,667	100.0%	10,325	58.4%	3,183	18.0%	1,988	11.3%	
(28) 2381 (29) 2381 (30) 2381 (31) 2382 (32) 2382 (33) 2382		Glass and Glazing Contractors	4,767	100.0%	2,043	42.9%	1,161	24.4%	847	17.8%	
 (29) 2381 (30) 2381 (31) 2382 (32) 2382 (33) 2382 		Roofing Contractors	14,723	100.0%	7,763	52.7%	2,701	18.3%	2,064	14.0%	
 (30) 2381 (31) 2382 (32) 2382 (33) 2382 		Siding Contractors	7,063	100.0%	5,058	71.6%	1,133	16.0%	549	7.8%	
 (31) 2382 (32) 2382 (33) 2382 		Other Foundation, Structure, and Building Exterior	,		,		797				
(32) 2382(33) 2382		Contractors	4,529	100.0%	2,665	58.8%		17.6%	595	13.1%	
(33) 2382		Building Equipment Contractors Electrical Contractors and Other Wiring Installation	151,727	100.0%	79,142	52.2%	31,174	20.5%	20,836	13.7%	
	38210	Contractors	63,908	100.0%	34,004	53.2%	12,950	20.3%	8,461	13.2%	
(34) 2382	38220	Plumbing, Heating, and Air-Conditioning Contractors	81,490	100.0%	42,542	52.2%	17,042	20.9%	11,381	14.0%	
	38290	Other Building Equipment Contractors	6,329	100.0%	2,596	41.0%	1,182	18.7%	994	15.7%	
(35) 2383	33	Building Finishing Contractors	96,118	100.0%	63,340	65.9%	15,062	15.7%	9,326	9.7%	
(36) 2383	38310	Drywall and Insulation Contractors	16,924	100.0%	8,913	52.7%	2,732	16.1%	2,241	13.2%	
(37) 2383	38320	Painting and Wall Covering Contractors	27,358	100.0%	18,654	68.2%	4,370	16.0%	2,423	8.9%	
(38) 2383		Flooring Contractors	12,142	100.0%	8,628	71.1%	1,801	14.8%	967	8.0%	
(39) 2383	38340	Tile and Terrazzo Contractors	8,705	100.0%	5,870	67.4%	1,281	14.7%	864	9.9%	
		Finish Carpentry Contractors	25,119	100.0%	18,136	72.2%	3,763	15.0%	1,991	7.9%	
		Other Building Finishing Contractors	5,870	100.0%	3,139	53.5%	1,115	19.0%	840	14.3%	
(42) 2389		Other Specialty Trade Contractors	59,539	100.0%	36,343	61.0%	10,464	17.6%	6,734	11.3%	
		Site Preparation Contractors	32,742	100.0%	19,216	58.7%	5,823	17.8%	3,884	11.9%	
		All Other Specialty Trade Contractors	26,797	100.0%	17,127	63.9%	4,641	17.3%	2,850	10.6%	
	23	All Construction Firms	623,332	100.0%	376,504	60.4%	109,685	17.6%	69,447	11.1%	

Appendix Table E.5 Construction Firms, Nationwide, Excluding Sole Proprietorships, by Number of Employees, County Business Patterns 2008

	(a)	(b)	(c)	(d)	(k)	(I)	(m)	(n)	(o)	(p)
1		had been from On a face	T . (. 1)		20-4		ounts by Num		oyees 100-2	10
-	NAICS Code	Industry Sector	Total N	Firms %	20-4 N	19 %	50-9 N	9 %	100-2 N	49 %
(1)	236	Construction of Buildings	191,073	70 100.0%	9,566	5.0%	2,647	1.4%	1,178	0.6%
(1) (2)		•					2,647		386	
(2)	2361	Residential Building Construction	149,885	100.0%	4,107	2.7%	990	0.7%	300	0.3%
(3)	236115	New Single-Family Housing Construction (except Operative Builders)	55,436	100.0%	1,296	2.3%	227	0.4%	68	0.1%
		New Multifamily Housing Construction (except								
(4)	236116	Operative Builders)	3,527	100.0%	306	8.7%	102	2.9%	54	1.5%
(5)	236117	New Housing Operative Builders	21,657	100.0%	942	4.3%	385	1.8%	185	0.9%
(6)	236118	Residential Remodelers	69,265	100.0%	1,563	2.3%	276	0.4%	79	0.1%
(7)	2362	Nonresidential Building Construction	41,188	100.0%	5,459	13.3%	1,657	4.0%	792	1.9%
(8)	236210	Industrial Building Construction	3,172	100.0%	363	11.4%	114	3.6%	90	2.8%
		·								
(9)	236220	Commercial and Institutional Building Construction	38,016	100.0%	5,096	13.4%	1,543	4.1%	702	1.8%
(10)	237	Heavy and Civil Engineering Construction	42,852	100.0%	4,996	11.7%	1,972	4.6%	1,177	2.7%
(11)	2371	Utility System Construction	18,170	100.0%	2,526	13.9%	969	5.3%	545	3.0%
(12)	237110	Water and Sewer Line and Related Structures	11,358	100.0%	1,446	12.7%	487	4.3%	216	1.9%
(12)	237110	Construction	11,556	100.078	1,440	12.770	407	4.3%	210	1.9%
(13)	237120	Oil and Gas Pipeline and Related Structures	1,779	100.0%	314	17.7%	188	10.6%	163	9.2%
(10)	201120	Construction	1,110	100.070	014	17.170	100	10.070	100	0.270
(14)	237130	Power and Communication Line and Related	5,033	100.0%	766	15.2%	294	5.8%	166	3.3%
		Structures Construction								
(15)	2372	Land Subdivision	10,121	100.0%	313	3.1%	106	1.0%	49	0.5%
(16)	237210	Land Subdivision	10,121	100.0%	313	3.1%	106	1.0%	49	0.5%
(17)	2373	Highway, Street, and Bridge Construction	10,449	100.0%	1,754	16.8%	736	7.0%	506	4.8%
(18)	237310	Highway, Street, and Bridge Construction	10,449	100.0%	1,754	16.8%	736	7.0%	506	4.8%
(19)	2379	Other Heavy and Civil Engineering Construction	4,112	100.0%	403	9.8%	161	3.9%	77	1.9%
(20)	237990	Other Heavy and Civil Engineering Construction	4,112	100.0%	403	9.8%	161	3.9%	77	1.9%
(21)	238	Specialty Trade Contractors	389,407	100.0%	30,738	7.9%	9,330	2.4%	4,168	1.1%
(22)	2381	Foundation, Structure, and Building Exterior Contractors	82,023	100.0%	6,880	8.4%	2,279	2.8%	983	1.2%
(23)	238110	Poured Concrete Foundation and Structure	18,855	100.0%	1,749	9.3%	556	2.9%	262	1.4%
		Contractors	-,		, -					
(24)	238120	Structural Steel and Precast Concrete Contractors	3,318	100.0%	579	17.5%	249	7.5%	141	4.2%
(25)	238130	Framing Contractors	11,101	100.0%	513	4.6%	186	1.7%	121	1.1%
(26)	238140	Masonry Contractors	17,667	100.0%	1,412	8.0%	513	2.9%	195	1.1%
(27)	238150	Glass and Glazing Contractors	4,767	100.0%	524	11.0%	129	2.7%	54	1.1%
(28)	238160	Roofing Contractors	14,723	100.0%	1.536	10.4%	480	3.3%	162	1.1%
(29)	238170	Siding Contractors	7,063	100.0%	254	3.6%	53	0.8%	12	0.2%
		Other Foundation, Structure, and Building Exterior								
(30)	238190	Contractors	4,529	100.0%	313	6.9%	113	2.5%	36	0.8%
(31)	2382	Building Equipment Contractors	151,727	100.0%	13,792	9.1%	4,202	2.8%	1,999	1.3%
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	63,908	100.0%	5,605	8.8%	1,745	2.7%	877	1.4%
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	81,490	100.0%	7,228	8.9%	2,112	2.6%	916	1.1%
(34)	238290	Other Building Equipment Contractors	6,329	100.0%	959	15.2%	345	5.5%	206	3.3%
(35)	2383	Building Finishing Contractors	96,118	100.0%	5,827	6.1%	1,668	1.7%	707	0.7%
(36)	238310	Drywall and Insulation Contractors	16,924	100.0%	1,824	10.8%	715	4.2%	375	2.2%
(37)	238320	Painting and Wall Covering Contractors	27,358	100.0%	1,404	5.1%	350	1.3%	130	0.5%
(38)	238330	Flooring Contractors	12,142	100.0%	577	4.8%	124	1.0%	41	0.3%
(39)	238340	Tile and Terrazzo Contractors	8,705	100.0%	504	5.8%	139	1.6%	40	0.5%
(40)	238350	Finish Carpentry Contractors	25,119	100.0%	965	3.8%	187	0.7%	66	0.3%
(41)	238390	Other Building Finishing Contractors	5,870	100.0%	553	9.4%	153	2.6%	55	0.9%
(42)	2389	Other Specialty Trade Contractors	59,539	100.0%	4,239	7.1%	1,181	2.0%	479	0.8%
(43)	238910	Site Preparation Contractors	32,742	100.0%	2,637	8.1%	774	2.4%	341	1.0%
(44)	238990	All Other Specialty Trade Contractors	26,797	100.0%	1,602	6.0%	407	1.5%	138	0.5%
· /	23	All Construction Firms	623,332	100.0%	45,300	7.3%	13,949	2.2%	6,523	1.0%

Appendix Table E.5 Construction Firms, Nationwide, Excluding Sole Proprietorships, by Number of Employees, County Business Patterns 2008

	(a)	(b)	(c)	(d)	(q)	(r)	(s)	(t)	(u)	(v)
		ha daartaa Oo ataa	T . (. 1)					ber of Emplo		
	NAICS Code	Industry Sector	Total N	-	250-4		500-9		1,000	
(4)	236	Construction of Buildings		% 100.0%	N 240	<u>%</u> 0.1%	N	<u>%</u> 0.0%	N 20	% 0.0%
(1) (2)		Construction of Buildings	191,073 149,885				83 21	0.0%	30 4	0.0%
(2)	2361	Residential Building Construction	149,885	100.0%	69	0.0%	21	0.0%	4	0.0%
(3)	236115	New Single-Family Housing Construction (except Operative Builders)	55,436	100.0%	19	0.0%	8	0.0%	0	0.0%
(4)	236116	New Multifamily Housing Construction (except Operative Builders)	3,527	100.0%	13	0.4%	5	0.1%	1	0.0%
(5)	236117	New Housing Operative Builders	21,657	100.0%	27	0.1%	6	0.0%	3	0.0%
(6)	236118	Residential Remodelers	69,265	100.0%	10	0.0%	2	0.0%	0	0.0%
(7)	2362	Nonresidential Building Construction	41,188	100.0%	171	0.4%	62	0.2%	26	0.1%
(8)	236210	Industrial Building Construction	3,172	100.0%	30	0.9%	15	0.5%	6	0.2%
(9)	236220	Commercial and Institutional Building Construction	38,016	100.0%	141	0.4%	47	0.1%	20	0.1%
(10)	237	Heavy and Civil Engineering Construction	42,852	100.0%	313	0.7%	88	0.2%	63	0.1%
(11)	2371	Utility System Construction	18,170	100.0%	154	0.8%	48	0.3%	48	0.3%
(12)	237110	Water and Sewer Line and Related Structures Construction	11,358	100.0%	44	0.4%	6	0.1%	2	0.0%
(13)	237120	Oil and Gas Pipeline and Related Structures Construction	1,779	100.0%	59	3.3%	21	1.2%	25	1.4%
(14)	237130	Power and Communication Line and Related Structures Construction	5,033	100.0%	51	1.0%	21	0.4%	21	0.4%
(4.5)	2372	Land Subdivision	10,121	100.0%	6	0.1%	2	0.0%	4	0.0%
(15)			,							
(16)	237210	Land Subdivision	10,121	100.0%	6	0.1%	2	0.0%	4	0.0%
(17)	2373	Highway, Street, and Bridge Construction	10,449	100.0%	131	1.3%	31	0.3%	11	0.1%
(18)	237310	Highway, Street, and Bridge Construction	10,449	100.0%	131	1.3%	31	0.3%	11	0.1%
(19)	2379	Other Heavy and Civil Engineering Construction	4,112	100.0%	22	0.5%	7	0.2%	0	0.0%
(20)	237990	Other Heavy and Civil Engineering Construction	4,112	100.0%	22	0.5%	7	0.2%	0	0.0%
(21)	238	Specialty Trade Contractors	389,407	100.0%	847	0.2%	195	0.1%	65	0.0%
(22)	2381	Foundation, Structure, and Building Exterior Contractors	82,023	100.0%	188	0.2%	33	0.0%	17	0.0%
(23)	238110	Poured Concrete Foundation and Structure Contractors	18,855	100.0%	70	0.4%	20	0.1%	11	0.1%
(24)	238120	Structural Steel and Precast Concrete Contractors	3,318	100.0%	21	0.6%	4	0.1%	1	0.0%
(25)	238130	Framing Contractors	11,101	100.0%	16	0.1%	3	0.0%	1	0.0%
(26)	238140	Masonry Contractors	17,667	100.0%	47	0.3%	3	0.0%	1	0.0%
(27)	238150	Glass and Glazing Contractors	4,767	100.0%	9	0.2%	0	0.0%	0	0.0%
(28)	238160	Roofing Contractors	14,723	100.0%	15	0.1%	1	0.0%	1	0.0%
(29)	238170	Siding Contractors	7,063	100.0%	3	0.0%	0	0.0%	1	0.0%
(30)	238190	Other Foundation, Structure, and Building Exterior	4,529	100.0%	7	0.2%	2	0.0%	1	0.0%
(31)	2382	Contractors Building Equipment Contractors	151,727	100.0%	428	0.3%	117	0.1%	37	0.0%
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	63,908	100.0%	188	0.3%	65	0.1%	13	0.0%
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	81,490	100.0%	206	0.3%	46	0.1%	17	0.0%
(21)	238290		6,329	100.0%	34	0.5%	6	0.1%	7	0.1%
(34)		Other Building Equipment Contractors	,	100.0%		0.5%				0.1%
(35)	2383	Building Finishing Contractors	96,118	100.0%	152	0.2%	30	0.0%	6	0.0%
(36)	238310	Drywall and Insulation Contractors	16,924	100.0%	101	0.6%	20	0.1%	3	0.0%
(37)	238320	Painting and Wall Covering Contractors	27,358	100.0%	20	0.1%	5	0.0%	2 0	0.0%
(38)	238330	Flooring Contractors	12,142	100.0%	4	0.0%	0	0.0%		0.0%
(39)	238340	Tile and Terrazzo Contractors	8,705	100.0%	7	0.1%	0	0.0%	0	0.0%
(40)	238350	Finish Carpentry Contractors	25,119	100.0%	9	0.0%	2	0.0%	0	0.0%
(41)	238390	Other Building Finishing Contractors	5,870	100.0%	11	0.2%	3	0.1%	1	0.0%
(42)	2389	Other Specialty Trade Contractors	59,539	100.0%	79	0.1%	15	0.0%	5	0.0%
(43)	238910	Site Preparation Contractors	32,742	100.0%	55	0.2%	11	0.0%	1	0.0%
(44)	238990	All Other Specialty Trade Contractors	26,797	100.0%	24	0.1%	4	0.0%	4	0.0%
(45)	23	All Construction Firms	623,332	100.0%	1,400	0.2%	366	0.1%	158	0.0%

Appendix Table E.6 Construction Firms, Nationwide, Excluding Sole Proprietorships, by Number of Employees, Cumulative Percentage, County Business Patterns 2008

10 28 Construction of Building: 66.6% 44.2% 92.6% 97.8% 99.3% 100.0% 100.0% 23 Selectional Building: Construction (except 236115 Construction (Scept) 75.0% 90.7% 97.8% 99.3% 100.0% 100.0% 100.0% 10 Zabit 5 New Kullsminy Housing Construction (except 2381115 75.0% 90.7% 97.1% 99.4% 99.8% 100.0% <t< th=""><th></th><th>(a)</th><th>(b)</th><th>(c)</th><th>(d)</th><th>(e)</th><th>(f)</th><th>(g)</th><th>(h)</th><th>(i)</th><th>(j)</th><th>(k)</th></t<>		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
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p 23e1 Residential Building Construction Operative Builders) 75.0% 90.1% 96.3% 91.0% 99.2% 90.0% 90		NAICS Code	Industry Sector	1-4	5-9		20-49	50-99	100-249	250-499	500-999	1,000 +
B 25115 New Single-Family Housing Construction (except Operative Builders) 75.9% 90.7% 97.1% 99.8% 100.0% 100.9% 100.0% 100.0% B 23111 New Multianity Housing Construction (except Operative Builders) 66.2% 74.4% 86.4% 90.9% 92.8% 92.8% 92.8% 90.9% 90.			•									100.0% 100.0%
it Dev Multifamily Housing Construction (except poparative Builders) 58.2% 74.4% 86.4% 95.0% 97.9% 99.5% 99.8% 100.0%<			New Single-Family Housing Construction (except									100.0%
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0 238/18 Residual Remodelers 78.8% 91.7% 97.2% 95.3% 99.9% 100.0% 100.			· · · · · · · · · · · · · · · · · · ·									100.0%
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(11) 2371 Utility System Construction 39.5% 69.8% 90.3% 95.6% 98.6% 99.5% 99.7% 100 (12) 23710 Construction 41.6% 63.9% 80.6% 93.4% 97.6% 99.5% 99.9% 100.0% 100 (13) 23710 Construction 28.2% 41.5% 56.7% 74.4% 84.9% 94.1% 97.4% 98.6% 100 (14) 23710 End Construction Line and Related Structures 28.2% 41.5% 56.7% 73.4% 89.4% 99.4% 99.2% 99.2% 99.6% 100.0% 100 (14) 23710 Land Subdivision 74.4% 88.5% 95.3% 99.4% 90.9% 100.0% 100 (16) 23710 Highway, Street, and Bridge Construction 50.0% 53.1% 69.7% 83.5% 97.4% 99.3% 100.0% 100 (23) 2310 Foundation, Structure, and Building Exterior 50.0% 74.3% 83.5% 95.7%	(10)	237	Heavy and Civil Engineering Construction	48.1%	65.9%	79.9%	91.6%	96.2%	98.9%	99.6%	99.9%	100.0%
(12) 23710 Water and Sewer Line and Related Structures Construction 41.6% 63.9% 80.6% 93.4% 97.6% 99.5% 99.9% 100.0% 100 (13) 237120 Oil and Gas Pipeline and Related Structures Construction 28.2% 41.5% 56.7% 74.4% 84.9% 94.1% 97.4% 98.6% 100 (14) 237130 Power and Communication Line and Related Structures Construction 74.8% 88.5% 95.3% 99.4% 99.9% 99.2% 99.6% 100.0% 100 (15) 2372 Land Subdivision 74.8% 88.5% 95.3% 89.3% 99.4% 99.9% 100.0% 100 (15) 23731 Highway, Stret, and Bridge Construction 36.0% 53.1% 68.7% 93.5% 97.4% 99.3% 99.8% 100.0% 100 (13) 2379 Other Heavy and Civil Engineening Construction 51.3% 68.7% 83.7% 93.5% 99.7% 99.3% 100.0% 100 (13) 23810 Frunctarcos			, , ,									100.0%
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Instructures Construction 74.8% 88.5% 95.3% 99.4% 99.9% 99.9% 100.0% 100 16 237210 Land Subdivision 74.8% 88.5% 95.3% 98.3% 99.4% 99.9% 99.9% 100.0% 100 17 2373 Highway, Street, and Bridge Construction 36.0% 53.1% 69.7% 86.5% 93.5% 97.4% 99.9% 100.0% 100 18 237310 Highway, Street, and Bridge Construction 51.3% 69.7% 83.5% 97.4% 99.3% 99.6% 99.9% 100.0% 100 23790 Other Heavy and Civi Engineering Construction 51.3% 69.7% 88.4% 98.2% 98.6% 99.7% 99.9% 100.0% 100 (22 23810 Froundation, Structure, and Building Exterior 56.0% 74.9% 87.7% 98.5% 99.7% 99.9% 100.0% 100.0% 100 00 00 02 238110 Contractors 64.4% 83.9% 2.1%	(14)	237130	Power and Communication Line and Related	38.8%	57.0%	73.8%	89.0%	94 9%	98.2%	99.2%	99.6%	100.0%
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(25) 238130 Framing Contractors 64.8% 83.9% 92.4% 97.1% 98.7% 99.8% 100.0% 100.0% 100.0% (26) 238140 Masonry Contractors 58.4% 76.5% 87.7% 95.7% 98.6% 99.7% 100.0% 10	(23)	238110		52.1%	72.1%	85.8%	95.1%	98.1%	99.5%	99.8%	99.9%	100.0%
(26) 238140 Masony Contractors 58.4% 76.5% 87.7% 95.7% 98.6% 99.7% 100.0% 100.0% 100 (27) 238150 Glass and Glazing Contractors 42.9% 67.2% 85.0% 96.0% 98.7% 99.8% 100.0% 100.0% 100 (28) 238170 Siding Contractors 52.7% 71.1% 85.1% 95.5% 98.8% 99.9% 100.0% 100 100 (30) 238170 Siding Contractors 71.6% 87.7% 95.5% 98.8% 99.9% 100.0% 100 100 (31) 2382 Building Equipment Contractors 52.2% 72.7% 86.4% 95.5% 98.3% 99.9% 100.0% 100 (32) 238210 Electrical Contractors 53.2% 73.5% 86.7% 95.5% 98.2% 99.9% 100.0% 100 (33) 238220 Contractors 52.2% 73.1% 87.1% 96.6% 99.3% 99.9% 100.0%	(24)	238120	Structural Steel and Precast Concrete Contractors	32.9%	52.3%	70.0%	87.5%	95.0%	99.2%	99.8%	100.0%	100.0%
(27) 238150 Glass and Glazing Contractors 42.9% 67.2% 85.0% 96.0% 98.7% 99.8% 100.0% 100.0% 100 (28) 238160 Roofing Contractors 52.7% 71.1% 85.1% 95.5% 98.8% 99.9% 100.0% 100.0% 100 (29) 238170 Siding Contractors 71.6% 87.7% 95.4% 99.0% 99.8% 99.9% 100.0% 100 100 (30) 238190 Other Foundation, Structure, and Building Exterior Contractors 58.8% 76.4% 89.6% 96.5% 99.0% 99.8% 99.9% 100.0% 100 (31) 23820 Building Equipment Contractors 52.2% 72.7% 86.4% 95.5% 98.3% 99.6% 99.9% 100.0% 100 (32) 238200 Flumbing, Heating, and Air-Conditioning Contractors 52.2% 73.1% 87.1% 96.0% 99.3% 99.9% 100.0% 100 (34) 238200 Other Building Equipment Contractors 65.9% 81.6% 91.3% 97.3% 99.4% 100.0% 100.0%	(25)	238130	Framing Contractors	64.8%	83.9%	92.4%	97.1%	98.7%	99.8%	100.0%	100.0%	100.0%
(28) 238160 Roofing Contractors 52.7% 71.1% 85.1% 95.5% 98.8% 99.9% 100.0% 10	(26)	238140	Masonry Contractors	58.4%	76.5%	87.7%	95.7%	98.6%	99.7%	100.0%	100.0%	100.0%
(29) 238170 Siding Contractors 71.6% 87.7% 95.4% 99.0% 99.8% 99.9% 100.0% 100.0% 100 (30) 238190 Other Foundation, Structure, and Building Exterior Contractors 58.8% 76.4% 89.6% 96.5% 99.0% 99.9% 99.9% 100.0% 100 (31) 2382 Building Equipment Contractors 52.2% 72.7% 86.4% 95.5% 98.3% 99.6% 99.9% 100.0% 100 (32) 238210 Electrical Contractors and Other Wiring Installation Contractors 53.2% 73.5% 86.7% 95.5% 98.3% 99.6% 99.9% 100.0% 100 (33) 238220 Plumbing, Heating, and Air-Conditioning Contractors 52.2% 73.1% 87.1% 96.0% 98.5% 99.7% 99.9% 100.0% 100 (34) 238230 Other Building Equipment Contractors 65.9% 81.6% 91.3% 97.3% 99.1% 99.9% 100.0% 100 100 100 100 100 100 100 100 100 100.0% 100.0% 100.0% <td>(27)</td> <td>238150</td> <td>Glass and Glazing Contractors</td> <td>42.9%</td> <td>67.2%</td> <td>85.0%</td> <td>96.0%</td> <td>98.7%</td> <td>99.8%</td> <td>100.0%</td> <td>100.0%</td> <td>100.0%</td>	(27)	238150	Glass and Glazing Contractors	42.9%	67.2%	85.0%	96.0%	98.7%	99.8%	100.0%	100.0%	100.0%
(30)238190Other Foundation, Structure, and Building Exterior Contractors58.8%76.4%89.6%96.5%99.0%99.8%99.9%100.0%100(31)2382Building Equipment Contractors52.2%72.7%86.4%95.5%98.3%99.6%99.9%100.0%100(32)238210Electrical Contractors and Other Wiring Installation Contractors53.2%73.5%86.7%95.5%98.2%99.6%99.9%100.0%100(33)238220Plumbing, Heating, and Air-Conditioning Contractors52.2%73.1%87.1%96.0%98.5%99.7%99.9%100.0%100(34)238290Other Building Equipment Contractors65.9%81.6%91.3%97.3%99.1%99.8%99.9%100.0%100(35)238310Drywall and Insulation Contractors65.9%81.6%91.3%97.1%99.3%99.9%100.0%100(36)238300Floring Contractors68.2%84.2%93.0%98.1%99.4%99.9%100.0%100(37)238320Painting and Wall Covering Contractors68.2%84.2%93.9%99.5%99.5%99.9%100.0%100(38)238300Floring Contractors67.4%82.1%92.1%97.9%99.9%100.0%100(39)238300Floring Contractors67.4%82.1%92.1%97.9%99.5%99.9%100.0%100(40)238300 <td>(28)</td> <td>238160</td> <td>Roofing Contractors</td> <td>52.7%</td> <td>71.1%</td> <td>85.1%</td> <td>95.5%</td> <td>98.8%</td> <td>99.9%</td> <td>100.0%</td> <td>100.0%</td> <td>100.0%</td>	(28)	238160	Roofing Contractors	52.7%	71.1%	85.1%	95.5%	98.8%	99.9%	100.0%	100.0%	100.0%
(30) 238190 Contractors 58.8% 76.4% 89.6% 96.5% 99.0% 99.8% 99.9% 100.0% 100 (31) 2382 Building Equipment Contractors 52.2% 72.7% 86.4% 95.5% 98.3% 99.6% 99.9% 100.0% 100 (32) 238210 Electrical Contractors and Other Wiring Installation Contractors 53.2% 73.5% 86.7% 95.5% 98.2% 99.6% 99.9% 100.0% 100 (33) 238220 Plumbing, Heating, and Air-Conditioning Contractors 52.2% 73.1% 87.1% 96.0% 98.5% 99.7% 99.9% 100.0% 100 (34) 238290 Other Building Equipment Contractors 41.0% 59.7% 75.4% 90.6% 96.0% 99.3% 99.9% 100.0% 100 (35) 238310 Drywall and Insulation Contractors 65.9% 81.6% 91.3% 97.3% 99.1% 99.8% 100.0% 100.0% 100 (36) 238310 Drywall and Insulation Contractors 52.7% 68.8% 82.0% 92.8% 97.1% 99.	(29)	238170	5	71.6%	87.7%	95.4%	99.0%	99.8%	99.9%	100.0%	100.0%	100.0%
(32) 238210 Electrical Contractors and Other Wiring Installation Contractors 53.2% 73.5% 86.7% 95.5% 98.2% 99.6% 99.9% 100.0% 100 (33) 238220 Plumbing, Heating, and Air-Conditioning Contractors 52.2% 73.1% 87.1% 96.0% 98.5% 99.7% 99.9% 100.0% 100 (34) 238290 Other Building Equipment Contractors 41.0% 59.7% 75.4% 90.6% 99.3% 99.9% 100.0% 100 (34) 238290 Other Building Finishing Contractors 65.9% 81.6% 91.3% 97.3% 99.1% 99.8% 99.9% 100.0% 100 (35) 2383 Dirywall and Insulation Contractors 65.9% 81.6% 91.3% 97.3% 99.1% 100.0% 100 1	(30)	238190	· · · · · ·	58.8%	76.4%	89.6%	96.5%	99.0%	99.8%	99.9%	100.0%	100.0%
(32) 236210 Contractors 53.2% 73.5% 86.7% 95.5% 96.2% 99.9% 100.0% 100 (33) 238220 Plumbing, Heating, and Air-Conditioning Contractors 52.2% 73.1% 87.1% 96.0% 98.5% 99.7% 99.9% 100.0% 100 (34) 238290 Other Building Equipment Contractors 41.0% 59.7% 75.4% 90.6% 96.0% 99.3% 99.9% 100.0% 100 (35) 2383 Building Finishing Contractors 65.9% 81.6% 91.3% 97.3% 99.1% 99.8% 99.9% 100.0% 100 (36) 238310 Drywall and Insulation Contractors 52.7% 68.8% 82.0% 92.8% 97.1% 99.9% 100.0% 100 (37) 238320 Painting and Wall Covering Contractors 68.2% 84.2% 93.0% 98.6% 99.6% 100.0% 100.0% 100 100 100 100 100.0% 100.0% 100 100 100 100 100 100 100 100 100 100 100 <t< td=""><td>(31)</td><td>2382</td><td>Building Equipment Contractors</td><td>52.2%</td><td>72.7%</td><td>86.4%</td><td>95.5%</td><td>98.3%</td><td>99.6%</td><td>99.9%</td><td>100.0%</td><td>100.0%</td></t<>	(31)	2382	Building Equipment Contractors	52.2%	72.7%	86.4%	95.5%	98.3%	99.6%	99.9%	100.0%	100.0%
(33) 238220 Contractors 52.2% 73.1% 87.1% 96.0% 98.5% 99.7% 99.9% 100.0% 100 (34) 238290 Other Building Equipment Contractors 41.0% 59.7% 75.4% 90.6% 96.0% 99.3% 99.8% 99.9% 100.0% 100 (35) 2383 Building Finishing Contractors 65.9% 81.6% 91.3% 97.3% 99.1% 99.8% 100.0% 100.0% 100 (36) 238310 Drywall and Insulation Contractors 52.7% 68.8% 82.0% 92.8% 97.1% 99.3% 99.9% 100.0% 100.0% 100 (37) 238320 Painting and Wall Covering Contractors 68.2% 84.2% 93.0% 98.1% 99.4% 100.0%<	(32)	238210	=	53.2%	73.5%	86.7%	95.5%	98.2%	99.6%	99.9%	100.0%	100.0%
(34) 238290 Other Building Equipment Contractors 41.0% 59.7% 75.4% 90.6% 96.0% 99.3% 99.8% 99.9% 100.0% (35) 2383 Building Finishing Contractors 65.9% 81.6% 91.3% 97.3% 99.1% 99.8% 100.0% 100.	(33)	238220		52.2%	73.1%	87.1%	96.0%	98.5%	99.7%	99.9%	100.0%	100.0%
(35) 2383 Building Finishing Contractors 65.9% 81.6% 91.3% 97.3% 99.1% 99.8% 100.0% 100.0% 100.0% (36) 238310 Drywall and Insulation Contractors 52.7% 68.8% 82.0% 92.8% 97.1% 99.3% 99.9% 100.0	(34)	238290		41.0%	59.7%	75.4%	90.6%	96.0%	99.3%	99.8%	99.9%	100.0%
(36) 238310 Drywall and Insulation Contractors 52.7% 68.8% 82.0% 92.8% 97.1% 99.3% 99.9% 100.0% 100 (37) 238320 Painting and Wall Covering Contractors 68.2% 84.2% 93.0% 98.1% 99.4% 99.9% 100.0% <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>100.0%</td></t<>												100.0%
(37) 238320 Painting and Wall Covering Contractors 68.2% 84.2% 93.0% 98.1% 99.4% 99.9% 100.0%			5 5									100.0%
(38) 238330 Flooring Contractors 71.1% 85.9% 93.9% 98.6% 99.6% 100.0%												100.0%
(39) 238340 Tile and Terrazzo Contractors 67.4% 82.1% 92.1% 97.9% 99.5% 99.9% 100.0%												100.0%
(40) 238350 Finish Carpentry Contractors 72.2% 87.2% 95.1% 98.9% 99.7% 100.0%												100.0%
(41) 238390 Other Building Finishing Contractors 53.5% 72.5% 86.8% 96.2% 98.8% 99.7% 99.9% 100.0% 100 (42) 2389 Other Specialty Trade Contractors 61.0% 78.6% 89.9% 97.0% 99.0% 99.8% 100.0% 100.0% 100 (43) 238910 Site Preparation Contractors 58.7% 76.5% 88.3% 96.4% 98.8% 99.8% 100.0% 100.0% 100 (44) 238990 All Other Specialty Trade Contractors 63.9% 81.2% 91.9% 97.8% 99.4% 99.9% 100.0% 100.0% 100	(40)											100.0%
(42) 2389 Other Specialty Trade Contractors 61.0% 78.6% 89.9% 97.0% 99.0% 99.8% 100.0%	(41)		Other Building Finishing Contractors									100.0%
(43) 238910 Site Preparation Contractors 58.7% 76.5% 88.3% 96.4% 98.8% 99.8% 100.0%	(42)		a									100.0%
(44) 238990 All Other Specialty Trade Contractors 63.9% 81.2% 91.9% 97.8% 99.4% 99.9% 100.0% 100.0% 100	(43)											100.0%
	(44)	238990										100.0%
U-1/0 00.4% 0.0% 00.4% 0.0% 00.4% 0.0% 99.1% 99.9% 100.0% 100	(45)	23	All Construction Firms	60.4%	78.0%	89.1%	96.4%	98.6%	99.7%	99.9%	100.0%	100.0%

Appendix Table E.7 Construction Firms, Nationwide, Excluding Sole Proprietorships, by Number of Employees, Average Firm Revenue, County Business Patterns 2008

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)
ſ	NAICS Code	Industry Sector	All Firms	1-4	5-9	10-19	Average F 20-49		Number of Emplo 100-249	oyees 250-499	500-999	1,000 +
(1)	236	Industry Sector Construction of Buildings	\$394,066	\$63,649	\$253,679	\$611,311	\$1,581,625	50-99 \$4,058,651	\$9,390,859	\$21,296,079	\$45,862,048	\$117,142,500
(1)	2361	Residential Building Construction	\$394,088 \$211,101	\$55,962	\$2253,679 \$226,014	\$528,298	\$1,377,026	\$3,768,515	\$9,390,859 \$8,729,104	\$21,296,079 \$17,171,275	\$42,058,429	\$117,142,500
(3)	236115	New Single-Family Housing Construction (except Operative Builders)	\$177,334	\$60,302	\$222,575	\$517,348	\$1,259,873	\$3,184,048	\$7,666,618	\$15,972,053	\$39,213,000	
(4)	236116	New Multifamily Housing Construction (except Operative Builders)	\$805,715	\$76,217	\$282,272	\$678,316	\$1,802,752	\$4,156,157	\$9,797,241	\$16,087,077		
(5)	236117 236118	New Housing Operative Builders Residential Remodelers	\$426,692 \$140,439	\$67,728 \$48,623	\$249,454 \$216,688	\$593,695 \$495,216	\$1,686,357 \$1,203,946	\$4,490,119	\$10,342,859	\$12,045,481 \$8,537,400	\$54,158,333	
(6) (7)	236116	Nonresidential Building Construction	\$1,059,885	\$40,623	\$210,000	\$495,216 \$720,953	\$1,734,522	\$3,012,652 \$4,231,997	\$5,134,481 \$9,713,381	\$22,960,474	\$45,135,984	\$115,011,654
(7) (8)	2362	Industrial Building Construction	\$1,352,312	\$101,215	\$326,744 \$314,797	\$720,953 \$688,291	\$1,622,669	\$4,231,997 \$4,007,325	\$9,000,156	\$22,960,474 \$16,344,167	\$45,590,533	\$79,778,667
(9)	236220	Commercial and Institutional Building Construction	\$1,035,481	\$113,598	\$327,762	\$008,291 \$723,499	\$1,742,490	\$4,007,325 \$4,248,596	\$9,800,150	\$23,758,766	\$44,990,915	\$125,581,550
	007	5										
(10) (11)	237 2371	Heavy and Civil Engineering Construction Utility System Construction	\$1,310,206 \$1,666,975	\$108,285 \$113,135	\$338,466 \$299,611	\$743,682 \$672,784	\$1,756,764 \$1,634,155	\$3,987,104 \$3,796,131	\$9,038,854 \$9,122,877	\$21,107,329 \$21,632,455	\$44,331,023 \$50,020,125	\$144,028,524 \$163,169,792
(12)	237110	Water and Sewer Line and Related Structures Construction	\$855,037	\$102,690	\$290,132	\$659,533	\$1,586,327	\$3,658,940	\$8,353,556	\$18,909,023	\$30,927,833	
(13)	237120	Oil and Gas Pipeline and Related Structures Construction	\$5,592,478	\$240,616	\$392,606	\$866,395	\$1,908,242	\$4,368,894	\$10,727,337	\$23,974,000	\$56,551,381	\$149,185,640
(14)	237130	Power and Communication Line and Related Structures Construction	\$2,111,743	\$105,523	\$301,577	\$637,563	\$1,612,086	\$3,657,126	\$8,548,458	\$21,273,235	\$45,537,857	\$158,634,333
(15)	2372	Land Subdivision	\$324,682	\$77,523	\$310,756	\$714,016	\$1,753,185	\$3,795,972	\$7,424,633	\$10,109,333		\$47,681,750
(16)	237210	Land Subdivision	\$324,682	\$77,523	\$310,756	\$714,016	\$1,753,185	\$3,795,972	\$7,424,633	\$10,109,333		\$47,681,750
(17)	2373	Highway, Street, and Bridge Construction	\$1,804,552	\$168,195	\$451,985	\$891,860	\$1,963,365	\$4,194,761	\$9,045,611	\$18,692,290	\$34,677,419	\$87,621,364
(18)	237310	Highway, Street, and Bridge Construction	\$1,804,552	\$168,195	\$451,985	\$891,860	\$1,963,365	\$4,194,761	\$9,045,611	\$18,692,290	\$34,677,419	\$87,621,364
(19)	2379	Other Heavy and Civil Engineering Construction	\$903,243	\$95,435	\$308,668	\$701,892	\$1,625,615	\$4,313,056	\$9,426,974	\$17,860,773	\$30,338,000	
(20)	237990	Other Heavy and Civil Engineering Construction	\$903,243	\$95,435	\$308,668	\$701,892	\$1,625,615	\$4,313,056	\$9,426,974	\$17,860,773	\$30,338,000	
(21)	238	Specialty Trade Contractors	\$486,574	\$65,872	\$239,017	\$550,806	\$1,381,101	\$3,318,707	\$7,391,866	\$17,948,506	\$35,739,677	\$78,051,277
(22)	2381	Foundation, Structure, and Building Exterior Contractors	\$469,329	\$68,470	\$219,423	\$507,968	\$1,247,878	\$2,942,430	\$6,343,810	\$15,639,883	\$30,548,727	\$71,418,176
(23)	238110	Poured Concrete Foundation and Structure Contractors	\$585,852	\$82,705	\$223,173	\$494,991	\$1,186,109	\$2,901,065	\$6,718,374	\$15,112,071	\$32,420,950	\$63,850,091
(24)	238120	Structural Steel and Precast Concrete Contractors	\$1,223,837	\$113,253	\$271,282	\$608,431	\$1,460,976	\$3,352,177	\$7,187,957	\$22,486,381		
(25)	238130	Framing Contractors	\$272,278	\$57,725	\$181,150	\$424,220	\$1,069,606	\$2,535,973	\$4,604,364	\$7,239,563	\$12,677,000	
(26)	238140	Masonry Contractors	\$411,147	\$65,726	\$213,859	\$484,524	\$1,191,767	\$2,731,924	\$5,800,436	\$13,268,681		
(27)	238150	Glass and Glazing Contractors	\$596,872	\$78,632	\$251,848	\$621,089	\$1,490,987	\$3,538,395	\$8,143,500	\$13,293,111		
(28)	238160	Roofing Contractors	\$464,527	\$67,248	\$228,890	\$506,287	\$1,262,509	\$2,918,179	\$6,090,488	\$11,086,133		
(29) (30)	238170 238190	Siding Contractors Other Foundation, Structure, and Building Exterior	\$199,783 \$443,452	\$52,750 \$62,599	\$196,056 \$238,178	\$470,616 \$554,440	\$1,118,614 \$1,370,256	\$2,563,377 \$3,373,752	\$4,899,083 \$7,229,861	\$15,933,286		
(31)	2382	Contractors Building Equipment Contractors	\$629,855	\$71,700	\$256,088	\$594,228	\$1,509,576	\$3,716,723	\$8,307,713	\$19,774,797	\$40,388,120	\$76,521,568
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	\$630,095	\$71,458	\$258,524	\$594,681	\$1,498,879	\$3,606,343	\$8,163,741	\$19,629,160	\$40,564,446	\$97,863,154
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	\$578,795	\$70,554	\$249,328	\$580,216	\$1,474,009	\$3,688,449	\$8,116,326	\$19,948,597	\$41,673,304	\$68,915,824
(34)	238290	Other Building Equipment Contractors	\$1,284,827	\$93,585	\$326,868	\$750,162	\$1,840,165	\$4,448,101	\$9,771,660	\$17,162,853		\$49,081,429
(35)	2383	Building Finishing Contractors	\$325,029	\$52,862	\$216,089	\$485,078	\$1,221,869	\$2,887,719	\$6,576,962	\$16,282,178	\$23,350,867	\$32,038,667
(36)	238310	Drywall and Insulation Contractors	\$684,975	\$62,775	\$220,218	\$482,221	\$1,207,564	\$2,896,965	\$6,837,789	\$16,232,535	\$24,725,700	
(37)	238320	Painting and Wall Covering Contractors	\$250,966	\$52,716	\$207,667	\$456,368	\$1,199,395	\$2,653,731	\$6,134,008	\$14,358,150	\$14,991,600	
(38)	238330	Flooring Contractors	\$231,621	\$48,721	\$220,768	\$545,715	\$1,259,490	\$3,265,952	\$6,687,610	\$10,014,250		
(39)	238340	Tile and Terrazzo Contractors	\$263,265	\$47,708	\$207,339	\$469,054	\$1,238,738	\$2,882,324	\$5,221,550			
(40)	238350	Finish Carpentry Contractors	\$199,236	\$49,634	\$218,968	\$486,706	\$1,229,046	\$2,907,316	\$6,289,848	\$12,889,667		
(41)	238390	Other Building Finishing Contractors	\$455,500	\$65,092	\$230,650	\$517,502	\$1,258,960	\$3,054,183	\$6,930,127	\$12,917,182	\$5,757,000	
(42)	2389	Other Specialty Trade Contractors	\$405,807	\$72,570	\$250,163	\$572,162	\$1,397,183	\$3,237,387	\$6,923,390	\$16,754,215	\$27,084,333	\$33,102,000
(43)	238910	Site Preparation Contractors	\$463,475	\$70,848	\$253,822	\$588,056	\$1,437,473	\$3,286,331	\$7,023,399	\$17,605,018	\$27,964,909	\$0
(44)	238990	All Other Specialty Trade Contractors	\$335,345	\$74,501	\$245,412	\$550,074	\$1,330,861	\$3,144,310	\$6,676,268	\$9,302,625	\$0	\$41,377,500
(45)	23	All Construction Firms	\$514,839	\$67,421	\$249,909	\$581,762	\$1,464,876	\$3,554,373	\$8,050,048	\$19,228,599	\$40,100,866	\$111,781,044

Appendix Table E.8 Construction Firms, Nationwide, by Number of Employees, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m) hts by Nui	(n)	(0)	(p)	(q)	(r)	(s)	(t)	(u)	(v)
F	NAICS Code	Industry Sector	Total F	irms	1-	4	5-	9	10-	19		-49	115 Dy Nui 50-		100-249		250-499		500-999		1,00	0 +
-		inducity ocotor	N	%	N .	- %	N	%	N	%	N 20	%	N	%	N 100	%	N 100	%	N N	%	N 1,00	%
(1)	36	Construction of Buildings	3,515	100%	637	18%	525	15%	640	18%	746	21%	363	10%	265	8%	117	3%	61	2%	161	5%
(2)	2361	Residential Building Construction	184	100%	74	40%	19	10%	29	16%	23	13%	16	9%	5	3%	6	3%	7	4%	5	3%
(3)	236115	New Single-Family Housing Construction (except Operative Builders)	34	100%	12	35%	3	9%	6	18%	3	9%	1	3%	3	9%	2	6%	2	6%	2	6%
(4)	236116	New Multifamily Housing Construction (except Operative Builders)	17	100%	3	18%	1	6%	3	18%	5	29%	2	12%		0%	1	6%	2	12%		0%
(5)	236117	New Housing Operative Builders	2	100%		0%		0%	1	50%		0%		0%	1	50%		0%		0%		0%
(6)	236118	Residential Remodelers	131	100%	59	45%	15	11%	19	15%	15	11%	13	10%	1	1%	3	2%	3	2%	3	2%
(7)	2362	Nonresidential Building Construction	3,331	100%	563	17%	506	15%	611	18%	723	22%	347	10%	260	8%	111	3%	54	2%	156	5%
(8)	236210	Industrial Building Construction	374	100%	64	17%	51	14%	74	20%	92	25%	41	11%	28	7%	10	3%	3	1%	11	3%
(9)	236220	Commercial and Institutional Building Construction	2,957	100%	499	17%	455	15%	537	18%	631	21%	306	10%	232	8%	101	3%	51	2%	145	5%
(10)		Heavy and Civil Engineering Construction	2,954	100%	640	22%	448	15%	499	17%	575	19%	303	10%	207	7%	94	3%	58	2%	130	4%
(11)	2371	Utility System Construction Water and Sewer Line and Related Structures	827	100%	180	22%	135	16%	170	21%	145	18%	66	8%	45	5%	22	3%	15	2%	49	6%
(12)	237110	Construction Oil and Gas Pipeline and Related Structures	493	100%	137	28%	95	19%	96	19%	82	17%	33	7%	22	4%	12	2%	4	1%	12	2%
(13)	237120	Construction Power and Communication Line and Related	72	100%	12	17%	10	14%	15	21%	12	17%	6	8%	6	8%	2	3%	2	3%	7	10%
(14)	237130	Structures Construction	262	100%	31	12%	30	11%	59	23%	51	19%	27	10%	17	6%	8	3%	9	3%	30	11%
(15)	2372	Land Subdivision	6	100%	1	17%		0%		0%	1	17%	1	17%	1	17%		0%		0%	2	33%
(16)	237210	Land Subdivision	6	100%	1	17%		0%		0%	1	17%	1	17%	1	17%		0%		0%	2	33%
(17)	2373	Highway, Street, and Bridge Construction	995	100%	226	23%	161	16%	158	16%	191	19%	105	11%	67	7%	31	3%	15	2%	41	4%
(18)	237310	Highway, Street, and Bridge Construction	995	100%	226	23%	161	16%	158	16%	191	19%	105	11%	67	7%	31	3%	15	2%	41	4%
(19)	2379	Other Heavy and Civil Engineering Construction	1,126	100%	233	21%	152	13%	171	15%	238	21%	131	12%	94	8%	41	4%	28	2%	38	3%
(20)	237990	Other Heavy and Civil Engineering Construction	1,126	100%	233	21%	152	13%	171	15%	238	21%	131	12%	94	8%	41	4%	28	2%	38	3%
(21)	38	Specialty Trade Contractors	8,210	100%	2,037	25%	1,413	17%	1,453	18%	1,623	20%	714	9%	426	5%	165	2%	97	1%	282	3%
(22)	2381	Foundation, Structure, and Building Exterior Contractors	1,046	100%	282	27%	184	18%	198	19%	201	19%	90	9%	39	4%	20	2%	7	1%	25	2%
(23)	238110	Poured Concrete Foundation and Structure Contractors	142	100%	46	32%	18	13%	34	24%	27	19%	8	6%	2	1%	2	1%	2	1%	3	2%
(24)	238120	Structural Steel and Precast Concrete Contractors	82	100%	13	16%	17	21%	17	21%	18	22%	7	9%	5	6%	2	2%	2	2%	1	1%
(25)	238130	Framing Contractors	43	100%	17	40%	7	16%	5	12%	8	19%	2	5%	2	5%	1	2%		0%	1	2%
(26)	238140	Masonry Contractors	73	100%	24	33%	14	19%	10	14%	12	16%	6	8%	4	5%	2	3%		0%	1	1%
(27)	238150	Glass and Glazing Contractors	119	100%	28	24%	21	18%	30	25%	23	19%	9	8%	3	3%	2	2%		0%	3	3%
(28)	238160	Roofing Contractors	382	100%	91	24%	72	19%	66	17%	85	22%	41	11%	13	3%	7	2%		0%	7	2%
(29)	238170	Siding Contractors	24	100%	11	46%	6	25%	2	8%	3	13%	2	8%		0%		0%		0%		0%
(30)	238190	Other Foundation, Structure, and Building Exterior Contractors	181	100%	52	29%	29	16%	34	19%	25	14%	15	8%	10	6%	4	2%	3	2%	9	5%
(31)	2382	Building Equipment Contractors	4,034	100%	789	20%	678	17%	710	18%	880	22%	396	10%	254	6%	100	2%	59	1%	168	4%
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	1,908	100%	410	21%	329	17%	326	17%	379	20%	182	10%	111	6%	49	3%	22	1%	100	5%
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	1,694	100%	301	18%	276	16%	299	18%	403	24%	172	10%	119	7%	43	3%	29	2%	52	3%
(34)	238290	Other Building Equipment Contractors	432	100%	78	18%	73	17%	85	20%	98	23%	42	10%	24	6%	8	2%	8	2%	16	4%
(35)	2383	Building Finishing Contractors	1,220	100%	419	34%	223	18%	213	17%	189	15%	83	7%	38	3%	12	1%	4	0%	39	3%
(36)	238310	Drywall and Insulation Contractors	88	100%	29	33%	14	16%	12	14%	14	16%	7	8%	6	7%	3	3%	1	1%	2	2%
(37)	238320	Painting and Wall Covering Contractors	319	100%	124	39%	61	19%	50	16%	47	15%	20	6%	11	3%		0%		0%	6	2%
(38)	238330	Flooring Contractors	370	100%	131	35%	76	21%	72	19%	54	15%	23	6%	6	2%	1	0%	2	1%	5	1%
(39)	238340	Tile and Terrazzo Contractors	32	100%	11	34%	6	19%	5	16%	5	16%	2	6%	2	6%		0%		0%	1	3%
(40)	238350	Finish Carpentry Contractors	138	100%	57	41%	21	15%	20	14%	25	18%	8	6%	3	2%		0%	1	1%	3	2%
(41) (42)	238390	Other Building Finishing Contractors	273	100%	67 547	25% 29%	45	16%	54	20%	44	16%	23	8% 8%	10	4% 5%	8	3%	27	0%	22	8%
(42) (43)	2389	Other Specialty Trade Contractors	1,910	100%	547	29% 35%	328	17% 16%	332	17%	353 80	18% 19%	145 21		95 14	5% 3%	33 5	2%	27	1%	50	3% 2%
(43) (44)	238910 238990	Site Preparation Contractors All Other Specialty Trade Contractors	425 1,485	100% 100%	148 399	35% 27%	69 259	16% 17%	72 260	17% 18%	80 273	19% 18%	21 124	5% 8%	14 81	3% 5%	5 28	1% 2%	6 21	1% 1%	10 40	2% 3%
(44)	238990	All Construction Firms	1,485	100%	399	27%	259	16%	260	18%	2/3	20%	1.380	8% 9%	898	5% 6%	376	2%	216	1%	573	3% 4%
()	20		14,013	10070	3,314	2070	2,000	1070	2,002	1070	2,044	2070	1,000	370	030	070	510	070	210	1 /0	515	T /0

Appendix Table E.9 Construction Firms, Nationwide, by Number of Employees, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
								Imber of Er			4 0 0 0
	NAICS Code		1-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 +
(1)	236	Construction of Buildings	18%	33%	51%	72%	83%	90%	94%	95%	100%
(2)	2361	Residential Building Construction	40%	51%	66%	79%	88%	90%	93%	97%	100%
(3)	236115	New Single-Family Housing Construction (except	35%	44%	62%	71%	74%	82%	88%	94%	100%
. ,		Operative Builders)									
(4)	236116	New Multifamily Housing Construction (except	18%	24%	41%	71%	82%	82%	88%	100%	100%
		Operative Builders)									
(5)	236117	New Housing Operative Builders	0%	0%	50%	50%	50%	100%	100%	100%	100%
(6)	236118	Residential Remodelers	45%	56%	71%	82%	92%	93%	95%	98%	100%
(7)	2362	Nonresidential Building Construction	17%	32%	50%	72%	83%	90%	94%	95%	100%
(8)	236210	Industrial Building Construction	17%	31%	51%	75%	86%	94%	96%	97%	100%
(9)	236220	Commercial and Institutional Building Construction	17%	32%	50%	72%	82%	90%	93%	95%	100%
		-									
(10)	237	Heavy and Civil Engineering Construction	22%	37%	54%	73%	83%	90%	94%	96%	100%
(11)	2371	Utility System Construction	22%	38%	59%	76%	84%	90%	92%	94%	100%
(12)	237110	Water and Sewer Line and Related Structures	28%	47%	67%	83%	90%	94%	97%	98%	100%
(12)	257110	Construction	2070	-170	01 /0	0070	3070	5470	5170	3070	10070
(13)	237120	Oil and Gas Pipeline and Related Structures	17%	31%	51%	68%	76%	85%	88%	90%	100%
(13)	20/120	Construction	17 /0	5170	5170	0070	1070	0070	0070	3070	10070
(1.4)	237130	Power and Communication Line and Related	100/	220/	46%	650/	76%	0.00/	950/	800/	100%
(14)	237130	Structures Construction	12%	23%	40 %	65%	10%	82%	85%	89%	100%
(15)	2372	Land Subdivision	17%	17%	17%	33%	50%	67%	67%	67%	100%
(16)	237210	Land Subdivision	17%	17%	17%	33%	50%	67%	67%	67%	100%
(17)	2373	Highway, Street, and Bridge Construction	23%	39%	55%	74%	85%	91%	94%	96%	100%
(18)	237310	Highway, Street, and Bridge Construction	23%	39%	55%	74%	85%	91%	94%	96%	100%
(19)	2379	Other Heavy and Civil Engineering Construction	21%	34%	49%	71%	82%	90%	94%	97%	100%
(20)	237990	Other Heavy and Civil Engineering Construction	21%	34%	49%	71%	82%	90%	94%	97%	100%
	238	Specialty Trade Contractors	25%	42%	60%	79%	88%	93%	95%	97%	100%
. ,		Foundation, Structure, and Building Exterior									
(22)	2381	Contractors	27%	45%	63%	83%	91%	95%	97%	98%	100%
		Poured Concrete Foundation and Structure									
(23)	238110	Contractors	32%	45%	69%	88%	94%	95%	96%	98%	100%
(24)	238120	Structural Steel and Precast Concrete Contractors	16%	37%	57%	79%	88%	94%	96%	99%	100%
(25)	238130	Framing Contractors	40%	56%	67%	86%	91%	95%	98%	98%	100%
(26)	238140	Masonry Contractors	33%	52%	66%	82%	90%	96%	99%	99%	100%
(27)	238150	Glass and Glazing Contractors	24%	41%	66%	86%	93%	96%	97%	97%	100%
(28)	238160	Roofing Contractors	24%	43%	60%	82%	93%	96%	98%	98%	100%
(29)	238170	Siding Contractors	46%	71%	79%	92%	100%	100%	100%	100%	100%
(23)	230170	Other Foundation, Structure, and Building Exterior	40 /0	/ 1 /0	13/0	9270	10070	100 /8	10076	100 /8	100 /8
(30)	238190	Contractors	29%	45%	64%	77%	86%	91%	93%	95%	100%
(31)	2382	Building Equipment Contractors	20%	36%	54%	76%	86%	92%	94%	96%	100%
(31)	2302	÷ · ·	2078	3076	J4 /0	1078	00 /0	9270	5470	3078	100 /8
(32)	238210	Electrical Contractors and Other Wiring Installation	21%	39%	56%	76%	85%	91%	94%	95%	100%
		Contractors									
(33)	238220	Plumbing, Heating, and Air-Conditioning	18%	34%	52%	76%	86%	93%	95%	97%	100%
(a. 1)		Contractors	100/	050/			070/	000/	0.40/	000/	1000/
(34)	238290	Other Building Equipment Contractors	18%	35%	55%	77%	87%	93%	94%	96%	100%
(35)	2383	Building Finishing Contractors	34%	53%	70%	86%	92%	95%	96%	97%	100%
(36)	238310	Drywall and Insulation Contractors	33%	49%	63%	78%	86%	93%	97%	98%	100%
(37)	238320	Painting and Wall Covering Contractors	39%	58%	74%	88%	95%	98%	98%	98%	100%
(38)	238330	Flooring Contractors	35%	56%	75%	90%	96%	98%	98%	99%	100%
(39)	238340	Tile and Terrazzo Contractors	34%	53%	69%	84%	91%	97%	97%	97%	100%
(40)	238350	Finish Carpentry Contractors	41%	57%	71%	89%	95%	97%	97%	98%	100%
(41)	238390	Other Building Finishing Contractors	25%	41%	61%	77%	85%	89%	92%	92%	100%
(42)	2389	Other Specialty Trade Contractors	29%	46%	63%	82%	89%	94%	96%	97%	100%
(43)	238910	Site Preparation Contractors	35%	51%	68%	87%	92%	95%	96%	98%	100%
(44)	238990	All Other Specialty Trade Contractors	27%	44%	62%	80%	89%	94%	96%	97%	100%
(45)	23	All Construction Firms	23%	39%	56%	77%	86%	92%	95%	96%	100%

Appendix Table E.10 Construction Firms, Nationwide, by Number of Employees, Average Firm Revenue, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
								V Number of E			
	NAICS Code		1-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 +
(1) (2)	236 2361	Construction of Buildings Residential Building Construction			\$3,867,061 \$3,264,803		\$19,464,428 \$16,687,101		\$159,939,149 \$65,858,333		\$3,001,223,571 \$1,881,398,903
(3)	236115	New Single-Family Housing Construction (except Operative Builders)	\$765,792	\$664,000	\$2,668,523	\$3,814,639	\$10,000,000	\$196,642,857	\$110,500,000	\$92,500,000	\$166,831,024
(4)	236116	New Multifamily Housing Construction (except Operative Builders)	\$1,461,667	\$2,000,000	\$4,633,333	\$8,351,667	\$19,000,000		\$60,000,000	\$445,000,000	
(5)	236117	New Housing Operative Builders			\$3,500,000			\$350,000,000			
(6)	236118	Residential Remodelers							\$38,050,000		
(7)	2362	Nonresidential Building Construction				\$9,731,578			\$165,024,599		\$3,037,115,387
(8)	236210 236220	Industrial Building Construction				\$10,026,216				\$331,590,214	\$2,914,348,961 \$2,046,428,702
(9)		Commercial and Institutional Building Construction			\$3,913,950		\$19,510,304		\$171,918,409		\$3,046,428,702
(10) (11)	237 2371	Heavy and Civil Engineering Construction Utility System Construction			\$3,338,816 \$2,701,619	\$7,137,627 \$6,704,838	\$17,246,262 \$17,743,815		\$108,329,676 \$69,811,755	\$245,396,053 \$222,237,665	\$5,627,930,099 \$7,127,953,074
(12)	237110	Water and Sewer Line and Related Structures Construction	\$398,725	\$1,139,232	\$2,485,011	\$5,782,380	\$14,027,463	\$27,649,266	\$74,431,895	\$114,649,580	\$7,614,400,375
(13)	237120	Oil and Gas Pipeline and Related Structures Construction	\$854,557	\$2,251,352	\$2,212,881	\$6,507,395	\$31,493,621	\$73,333,697	\$80,000,000	\$106,000,000	\$999,536,859
(14)	237130	Power and Communication Line and Related Structures Construction	\$449,005	\$1,315,152	\$3,178,322	\$8,234,462	\$19,230,510	\$47,272,315	\$60,334,484	\$295,885,184	\$8,363,337,936
(15)	2372	Land Subdivision	\$1,825,000			\$1,500,000	\$15,000,000	\$15,500,000			\$38,349,998,208
(16)	237210	Land Subdivision	\$1,825,000					\$15,500,000			\$38,349,998,208
(17)	2373	Highway, Street, and Bridge Construction			\$3,480,148		\$16,994,347			\$365,129,114	
(18)	237310	Highway, Street, and Bridge Construction			\$3,480,148		\$16,994,347		\$76,836,902		
(19)	2379	Other Heavy and Civil Engineering Construction			\$3,841,698		\$17,214,650		\$152,809,439	• • • • • • • • • • •	
(20)	237990	Other Heavy and Civil Engineering Construction			\$3,841,698		\$17,214,650		\$152,809,439		\$3,272,026,684
(21)	238	Specialty Trade Contractors	\$435,371	\$1,272,580	\$2,722,563	\$5,659,514	\$12,805,163	\$29,567,046	\$88,538,558	\$212,754,181	\$7,671,725,922
(22)	2381	Foundation, Structure, and Building Exterior Contractors	\$410,594	\$1,201,212	\$2,713,706	\$4,908,582	\$12,063,899	\$26,140,480	\$70,376,090	\$288,376,389	\$1,910,165,739
(23)	238110	Poured Concrete Foundation and Structure Contractors	\$386,790	\$2,103,595	\$1,857,063	\$5,058,071	\$18,069,805	\$19,144,680	\$28,750,000	\$85,000,000	\$620,000,000
(24)	238120	Structural Steel and Precast Concrete Contractors			\$3,514,480		\$12,478,161	\$33,975,853		\$360,741,760	\$791,846,016
(25)	238130	Framing Contractors			\$3,037,487		\$6,500,000				\$3,400,000,000
(26)	238140	Masonry Contractors	\$364,147	* /	\$3,629,754		\$9,325,758		\$25,521,870		\$166,000,000
(27) (28)	238150	Glass and Glazing Contractors	\$294,264			\$4,927,395			\$176,000,000		\$263,140,667
(28)	238160 238170	Roofing Contractors			\$2,362,601		\$9,604,407	\$26,241,391	\$72,658,430		\$3,994,142,784
(29)	238170	Siding Contractors Other Foundation, Structure, and Building Exterior	\$176,394 \$385,056		\$3,000,000 \$3,725,579		\$10,136,367 \$18,349,381	\$24,364,967	\$90.000.000	\$375,717,067	\$1,420,875,108
(31)	2382	Contractors Building Equipment Contractors			\$2,538,778		\$12,580,077	\$29,980,937		\$215,138,807	\$6,471,024,097
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	\$385,601	\$1,059,319	\$2,524,065	\$5,614,963	\$11,403,190	\$33,396,569	\$112,975,940	\$214,126,890	\$7,097,300,988
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	\$509,325	\$1,382,448	\$2,479,342	\$5,843,931	\$14,042,048	\$28,947,340	\$88,000,576	\$219,351,193	\$5,103,903,814
(34)	238290	Other Building Equipment Contractors	\$526,250	\$1,573,986	\$2,804,282	\$5,155,712	\$11,692,802	\$19,308,553	\$68,119,016	\$202,651,679	\$6,999,934,449
(35)	2383	Building Finishing Contractors	\$504,280	\$1,221,395	\$3,043,584		\$14,629,309		\$87,724,167	\$228,103,748	\$7,270,445,974
(36)	238310	Drywall and Insulation Contractors	\$817,617	\$1,155,391	\$1,601,603	\$11,557,772	\$9,838,571	\$20,127,516	\$77,000,000	\$364,324,992	\$24,482,500,480
(37)	238320	Painting and Wall Covering Contractors	\$325,520			\$3,633,419					\$2,932,106,901
(38)	238330	Flooring Contractors	\$610,075	\$1,385,372	\$3,641,445	\$5,648,855	\$15,684,564	\$28,044,630	\$110,000,000	\$161,500,000	
(39)	238340	Tile and Terrazzo Contractors	\$824,818		\$2,475,511		\$6,877,750				\$3,500,000,000
(40)	238350	Finish Carpentry Contractors	\$475,404			\$5,407,887				\$225,090,000	
(41)	238390	Other Building Finishing Contractors				\$6,734,501					\$8,743,845,709
(42)	2389	Other Specialty Trade Contractors			\$2,914,924		\$12,835,808				\$14,899,862,502
(43)	238910	Site Preparation Contractors				\$4,460,147					\$54,796,392,832
(44)	238990	All Other Specialty Trade Contractors			\$2,926,021		\$12,435,043			\$174,202,546	
(45)	23	All Construction Firms	\$509,495	\$1,471,960	\$3,123,793	\$6,953,476	\$15,531,950	\$42,143,419	\$115,704,075	\$276,081,344	\$5,895,732,317

Appendix Table E.11 Construction Firms, Nationwide, by Average Firm Revenue, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)	(aa)	(ab)	(ac)	(ad)
F																		s by Aver												
1	NAICS Code	Industry Sector	Total	Firms	<\$ ⁻	10,000		0,000-		0,000-		0,000- 0.000		D,000-),000- 5 000		5,000- 00.000		0,000- 50.000		0,000- 0.000		0,000- 0.000		,000-		0,000-	\$750	
-			N	%	N	%	⊅∡ N	20,000 %		<u>0,000</u> %		<u>0,000</u> %	رد N	<u>0,000</u> %		<u>5,000</u> %	N	<u>00,000</u> %	>1: N	<u>80,000</u> %	<u>\$20</u> N	<u>0,000</u> %	>23 N	<u>0,000</u> %	500 N	0,000 %	\$/5 N	0,000 %	\$1,00 N	<u>0,000</u> %
(1) 2	36	Construction of Buildings	3,515	100%	24	0.7%	12	0.3%	18	0.5%	11	0.3%	19	0.5%	43	1.2%	60	1.7%	64	1.8%	59	1.7%	61	1.7%	244	6.9%	134	3.8%	207	5.9%
(2)	2361	Residential Building Construction	184	100%	8	4.3%	1	0.5%	3	1.6%	4	2.2%	4	2.2%	6	3.3%	6	3.3%	6	3.3%	9	4.9%	9	4.9%	17	9.2%	7	3.8%	8	4.3%
(3)	236115	New Single-Family Housing Construction (except	34	100%	3	8.8%		0.0%		0.0%		0.0%	1	2.9%		0.0%	2	5.9%		0.0%		0.0%		0.0%	3	8.8%	1	2.9%	2	5.9%
(0)	200110	Operative Builders)	04	10070	Ŭ	0.070		0.070		0.070		0.070		2.070		0.070	2	0.070		0.070		0.070		0.070	0	0.070		2.570	-	0.070
(4)	236116	New Multifamily Housing Construction (except	17	100%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%	1	5.9%		0.0%		0.0%		0.0%	1	5.9%		0.0%
(5)	236117	Operative Builders) New Housing Operative Builders	2	100%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%
(6)	236117	Residential Remodelers	131	100%	5	3.8%	1	0.8%	3	2.3%	4	3.1%	3	2.3%	6	4.6%	4	3.1%	5	3.8%	9	6.9%	9	6.9%	14	10.7%	5	3.8%	6	4.6%
(7)	2362	Nonresidential Building Construction	3,331	100%	16	0.5%	11	0.3%	15	0.5%	7	0.2%	15	0.5%	37	1.1%	54	1.6%	58	1.7%	50	1.5%	52	1.6%	227	6.8%	127	3.8%	199	6.0%
(8)	236210	Industrial Building Construction	374	100%	2	0.5%	2	0.5%	1	0.3%	1	0.3%	2	0.5%	4	1.1%	6	1.6%	5	1.3%	7	1.9%	4	1.1%	26	7.0%	16	4.3%	24	6.4%
(9)	236220	Commercial and Institutional Building Construction	2,957	100%	14	0.5%	9	0.3%	14	0.5%	6	0.2%	13	0.4%	33	1.1%	48	1.6%	53	1.8%	43	1.5%	48	1.6%	201	6.8%	111	3.8%	175	5.9%
(10) 2	37	Heavy and Civil Engineering Construction	2,954	100%	9	0.3%	9	0.3%	15	0.5%	13	0.4%	22	0.7%	35	1.2%	83	2.8%	67	2.3%	67	2.3%	73	2.5%	242	8.2%	145	4.9%	204	6.9%
(11)	2371	Utility System Construction	827	100%	1	0.1%	1	0.1%	3	0.4%	3	0.4%	5	0.6%	9	1.1%	24	2.9%	19	2.3%	23	2.8%	21	2.5%	74	8.9%	49	5.9%	76	9.2%
(12)	237110	Water and Sewer Line and Related Structures Construction	493	100%		0.0%		0.0%	3	0.6%	2	0.4%	2	0.4%	7	1.4%	18	3.7%	13	2.6%	19	3.9%	15	3.0%	58	11.8%	34	6.9%	52	10.5%
(13)	237120	Oil and Gas Pipeline and Related Structures Construction	72	100%		0.0%		0.0%		0.0%		0.0%		0.0%	1	1.4%	2	2.8%	1	1.4%		0.0%		0.0%	5	6.9%	5	6.9%	7	9.7%
(14)	237130	Power and Communication Line and Related	262	100%	1	0.4%	1	0.4%		0.0%	1	0.4%	3	1.1%	1	0.4%	4	1.5%	5	1.9%	4	1.5%	6	2.3%	11	4.2%	10	3.8%	17	6.5%
(15)	2372	Structures Construction Land Subdivision	6	100%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%
(16)	237210	Land Subdivision	6	100%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%
(17)	2373	Highway, Street, and Bridge Construction	995	100%	4	0.4%	3	0.3%	5	0.5%	6	0.6%	10	1.0%	9	0.9%	33	3.3%	27	2.7%	21	2.1%	34	3.4%	78	7.8%	53	5.3%	66	6.6%
(18)	237310	Highway, Street, and Bridge Construction	995	100%	4	0.4%	3	0.3%	5	0.5%	6	0.6%	10	1.0%	9	0.9%	33	3.3%	27	2.7%	21	2.1%	34	3.4%	78	7.8%	53	5.3%	66	6.6%
(19)	2379	Other Heavy and Civil Engineering Construction	1,126	100%	4	0.4%	5	0.4%	7	0.6%	4	0.4%	7	0.6%	17	1.5%	26	2.3%	21	1.9%	23	2.0%	18	1.6%	90	8.0%	43	3.8%	62	5.5%
(20)	237990	Other Heavy and Civil Engineering Construction	1,126	100%	4	0.4%	5	0.4%	7	0.6%	4	0.4%	7	0.6%	17	1.5%	26	2.3%	21	1.9%	23	2.0%	18	1.6%	90	8.0%	43	3.8%	62	5.5%
(21) 2	38	Specialty Trade Contractors	8,210	100%	54	0.7%	62	0.8%	57	0.7%	57	0.7%	93	1.1%	110	1.3%	234	2.9%	248	3.0%	232	2.8%	200	2.4%	856	10.4%	437	5.3%	604	7.4%
(22)	2381	Foundation, Structure, and Building Exterior	1,046	100%	8	0.8%	5	0.5%	11	1.1%	10	1.0%	16	1.5%	12	1.1%	36	3.4%	35	3.3%	28	2.7%	34	3.3%	116	11.1%	63	6.0%	84	8.0%
		Contractors Poured Concrete Foundation and Structure																												
(23)	238110	Contractors	142	100%	1	0.7%	2	1.4%	1	0.7%		0.0%	3	2.1%	2	1.4%	5	3.5%	6	4.2%	4	2.8%	4	2.8%	25	17.6%	9	6.3%	8	5.6%
(24)	238120	Structural Steel and Precast Concrete Contractors	82	100%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%	1	1.2%	3	3.7%	2	2.4%		0.0%	10	12.2%	6	7.3%	7	8.5%
(25)	238130	Framing Contractors	43	100%		0.0%		0.0%		0.0%	1	2.3%	1	2.3%		0.0%	1	2.3%	2	4.7%	3	7.0%	1	2.3%	5	11.6%	3	7.0%	3	7.0%
(26)	238140	Masonry Contractors	73	100%	1	1.4%		0.0%		0.0%	1	1.4%	1	1.4%		0.0%	7	9.6%	4	5.5%	1	1.4%	4	5.5%	8	11.0%	2	2.7%	7	9.6%
(27)	238150	Glass and Glazing Contractors	119	100%	1	0.8%		0.0%	1	0.8%	1	0.8%	1	0.8%	1	0.8%	4	3.4%	4	3.4%	3	2.5%	4	3.4%	13	10.9%	6	5.0%	9	7.6%
(28)	238160	Roofing Contractors	382	100%	2	0.5%	3	0.8%	3	0.8%	3	0.8%	6	1.6%	7	1.8%	11	2.9%	9	2.4%	8	2.1%	13	3.4%	35	9.2%	23	6.0%	36	9.4%
(29)	238170	Siding Contractors	24	100%		0.0%		0.0%	2	8.3%	2	8.3%	2	8.3%	1	4.2%		0.0%	1	4.2%	1	4.2%	3	12.5%	2	8.3%	1	4.2%		0.0%
(30)	238190	Other Foundation, Structure, and Building Exterior Contractors	181	100%	3	1.7%		0.0%	4	2.2%	2	1.1%	2	1.1%	1	0.6%	7	3.9%	6	3.3%	6	3.3%	5	2.8%	18	9.9%	13	7.2%	14	7.7%
(31)	2382	Building Equipment Contractors	4,034	100%	16	0.4%	26	0.6%	21	0.5%	14	0.3%	25	0.6%	44	1.1%	71	1.8%	88	2.2%	107	2.7%	80	2.0%	386	9.6%	194	4.8%	291	7.2%
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	1,908	100%	10	0.5%	11	0.6%	12	0.6%	7	0.4%	16	0.8%	27	1.4%	37	1.9%	49	2.6%	61	3.2%	42	2.2%	227	11.9%	96	5.0%	129	6.8%
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	1,694	100%	6	0.4%	12	0.7%	7	0.4%	5	0.3%	8	0.5%	14	0.8%	29	1.7%	29	1.7%	35	2.1%	28	1.7%	131	7.7%	85	5.0%	118	7.0%
(34)	238290	Other Building Equipment Contractors	432	100%		0.0%	3	0.7%	2	0.5%	2	0.5%	1	0.2%	3	0.7%	5	1.2%	10	2.3%	11	2.5%	10	2.3%	28	6.5%	13	3.0%	44	10.2%
(35)	2383	Building Finishing Contractors	1,220	100%	11	0.9%	14	1.1%	10	0.8%	17	1.4%	25	2.0%	22	1.8%	58	4.8%	52	4.3%	39	3.2%	32	2.6%	155	12.7%	74	6.1%	100	8.2%
(36)	238310	Drywall and Insulation Contractors	88	100%		0.0%		0.0%		0.0%		0.0%	3	3.4%		0.0%	2	2.3%	5	5.7%	1	1.1%	2	2.3%	12	13.6%	3	3.4%	9	10.2%
(37)	238320	Painting and Wall Covering Contractors	319	100%	4	1.3%	8	2.5%	4	1.3%	12	3.8%	11	3.4%	9	2.8%	25	7.8%	17	5.3%	17	5.3%	10	3.1%	39	12.2%	19	6.0%	19	6.0%
(38)	238330	Flooring Contractors	370	100%	1	0.3%	4	1.1%	1	0.3%	2	0.5%	7	1.9%	3	0.8%	13	3.5%	14	3.8%	6	1.6%	12	3.2%	45	12.2%	30	8.1%	45	12.2%
(39)	238340	Tile and Terrazzo Contractors	32	100%	1	0.0%		0.0%	1	3.1%		0.0%		0.0%		0.0%	3	9.4%	1	3.1%	2	6.3%		0.0%	3	9.4%	1	3.1%	3	9.4%
(40)	238350	Finish Carpentry Contractors	138	100%	2	1.4%	2	1.4%	2	1.4%	2	1.4%	3	2.2%	7	5.1%	7	5.1%	8	5.8%	3	2.2%	3	2.2%	25	18.1%	3	2.2%	10	7.2%
(41)	238390	Other Building Finishing Contractors	273	100%	4	1.5%		0.0%	2	0.7%	1	0.4%	1	0.4%	3	1.1%	8	2.9%	7	2.6%	10	3.7%	5	1.8%	31	11.4%	18	6.6%	14	5.1%
(42)	2389	Other Specialty Trade Contractors	1,910	100%	19	1.0%	17	0.9%	15	0.8%	16	0.8%	27	1.4%	32	1.7%	69	3.6%	73	3.8%	58	3.0%	54	2.8%	199	10.4%	106	5.5%	129	6.8%
(43)	238910	Site Preparation Contractors	425	100%	10	2.4%	2	0.5%	3	0.7%	4	0.9%	9	2.1%	5	1.2%	16	3.8%	19	4.5%	14	3.3%	15	3.5%	46	10.8%	28	6.6%	33	7.8%
(44)	238990	All Other Specialty Trade Contractors	1,485	100%	9	0.6%	15	1.0%	12	0.8%	12	0.8%	18	1.2%	27	1.8%	53	3.6%	54	3.6%	44	3.0%	39	2.6%	153	10.3%	78	5.3%	96	6.5%
(45)	23	All Construction Firms	14,679	100%	87	0.6%	83	0.6%	90	0.6%	81	0.6%	134	0.9%	188	1.3%	377	2.6%	379	2.6%	358	2.4%	334	2.3%	1,342	9.1%	716	4.9%	1,015	6.9%

Appendix Table E.11 Construction Firms, Nationwide, by Average Firm Revenue, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(ae)	(af)	(ag)	(ah)	(ai)	(aj)	(ak)	(al)	(am)	(an)	(ao)	(ap)	(aq)	(ar)	(as)	(at)	(au)	(av)
i					A 4 00		* 0.00		* = 00			Firm Coun					\$ 100.0		* 050.0			
	NAICS Code	Industry Sector	Total	Firms	• ,	0,000- 00.000		0,000- 00.000		0,000- 00.000		00,000- 00.000	\$25,00 \$50.00		\$50,00	0,000-	\$100,0	00,000-	\$250,0	00,000-	> \$500,	000,000
			N	%	⇒2,00 N	<u>%</u>	\$5,00	<u>%</u>	\$10,0 N	<u>00,000</u> %		<u>00,000</u> %	\$50,00 N	<u>%</u> %	00,0	<u>00,000</u> %		<u>%</u>		<u>%</u>	N	%
(1)	236	Construction of Buildings	3,515	100%	383	10.9%	639	18.2%	465	13.2%	487	13.9%	187	5.3%	112	3.2%	92	2.6%	64	1.8%	130	3.7%
(2)	2361	Residential Building Construction	184	100%	21	11.4%	25	13.6%	16	8.7%	9	4.9%	6	3.3%	7	3.8%	5	2.7%	3	1.6%	4	2.2%
(3)	236115	New Single-Family Housing Construction (except	34	100%	6	17.6%	4	11.8%	3	8.8%		0.0%	1	2.9%	3	8.8%	3	8.8%	2	5.9%		0.0%
(4)	236116	Operative Builders) New Multifamily Housing Construction (except Operative Builders)	17	100%	3	17.6%	4	23.5%	2	11.8%	3	17.6%		0.0%	1	5.9%	1	5.9%		0.0%	1	5.9%
(5)	236117	New Housing Operative Builders	2	100%		0.0%	1	50.0%		0.0%		0.0%		0.0%		0.0%		0.0%	1	50.0%		0.0%
(6)	236118	Residential Remodelers	131	100%	12	9.2%	16	12.2%	11	8.4%	6	4.6%	5	3.8%	3	2.3%	1	0.8%		0.0%	3	2.3%
(7)	2362	Nonresidential Building Construction	3,331	100%	362	10.9%	614	18.4%	449	13.5%	478	14.4%	181	5.4%	105	3.2%	87	2.6%	61	1.8%	126	3.8%
(8)	236210	Industrial Building Construction	374	100%	42	11.2%	63	16.8%	59	15.8%	61	16.3%	20	5.3%	11	2.9%	5	1.3%	5	1.3%	8	2.1%
(9)	236220	Commercial and Institutional Building Construction	2,957	100%	320	10.8%	551	18.6%	390	13.2%	417	14.1%	161	5.4%	94	3.2%	82	2.8%	56	1.9%	118	4.0%
(10)	237	Heavy and Civil Engineering Construction	2,954	100%	303	10.3%	530	17.9%	371	12.6%	315	10.7%	152	5.1%	97	3.3%	69	2.3%	38	1.3%	95	3.2%
(11)	2371	Utility System Construction	827	100%	94	11.4%	156	18.9%	89	10.8%	59	7.1%	34	4.1%	25	3.0%	17	2.1%	9	1.1%	36	4.4%
(12)	237110	Water and Sewer Line and Related Structures Construction	493	100%	60	12.2%	91	18.5%	47	9.5%	36	7.3%	9	1.8%	11	2.2%	7	1.4%	3	0.6%	6	1.2%
(13)	237120	Oil and Gas Pipeline and Related Structures Construction	72	100%	7	9.7%	14	19.4%	7	9.7%	5	6.9%	6	8.3%	5	6.9%	2	2.8%	2	2.8%	3	4.2%
(14)	237130	Power and Communication Line and Related Structures Construction	262	100%	27	10.3%	51	19.5%	35	13.4%	18	6.9%	19	7.3%	9	3.4%	8	3.1%	4	1.5%	27	10.3%
(15)	2372	Land Subdivision	6	100%	2	33.3%		0.0%		0.0%	2	33.3%		0.0%		0.0%		0.0%		0.0%	2	33.3%
(16)	237210	Land Subdivision	6	100%	2	33.3%		0.0%		0.0%	2	33.3%		0.0%		0.0%		0.0%		0.0%	2	33.3%
(17)	2373	Highway, Street, and Bridge Construction	995	100%	98	9.8%	176	17.7%	127	12.8%	100	10.1%	56	5.6%	26	2.6%	20	2.0%	14	1.4%	29	2.9%
(18)	237310	Highway, Street, and Bridge Construction	995	100%	98	9.8%	176	17.7%	127	12.8%	100	10.1%	56	5.6%	26	2.6%	20	2.0%	14	1.4%	29	2.9%
(19)	2379	Other Heavy and Civil Engineering Construction	1,126	100%	109	9.7%	198	17.6%	155	13.8%	154	13.7%	62	5.5%	46	4.1%	32	2.8%	15	1.3%	28	2.5%
(20)	237990	Other Heavy and Civil Engineering Construction	1,126	100%	109	9.7%	198	17.6%	155	13.8%	154	13.7%	62	5.5%	46	4.1%	32	2.8%	15	1.3%	28	2.5%
(21)		Specialty Trade Contractors Foundation, Structure, and Building Exterior	8,210	100%	1,043	12.7%	1,572	19.1%	963	11.7%	613	7.5%	257	3.1%	150	1.8%	105	1.3%	64	0.8%	199	2.4%
(22)	2381	Contractors Poured Concrete Foundation and Structure	1,046	100%	136	13.0%	196	18.7%	109	10.4%	73	7.0%	31	3.0%	10	1.0%	9	0.9%	8	0.8%	16	1.5%
(23)	238110	Contractors	142	100%	19	13.4%	27	19.0%	8	5.6%	8	5.6%	5	3.5%	2	1.4%		0.0%	1	0.7%	2	1.4%
(24)	238120	Structural Steel and Precast Concrete Contractors	82	100%	14	17.1%	15	18.3%	8	9.8%	8	9.8%	5	6.1%		0.0%		0.0%	2	2.4%	1	1.2%
(25)	238130	Framing Contractors	43	100%	5	11.6%	5	11.6%	7	16.3%	3	7.0%	2	4.7%		0.0%		0.0%		0.0%	1	2.3%
(26)	238140	Masonry Contractors	73	100%	4	5.5%	15	20.5%	8	11.0%	8	11.0%	1	1.4%		0.0%	1	1.4%		0.0%		0.0%
(27)	238150	Glass and Glazing Contractors	119	100%	18	15.1%	29	24.4%	11	9.2%	5	4.2%	2	1.7%	2	1.7%	3	2.5%	1	0.8%	-	0.0%
(28) (29)	238160 238170	Roofing Contractors Siding Contractors	382 24	100% 100%	58 2	15.2%	73	19.1%	49	12.8%	22 1	5.8% 4.2%	9	2.4% 0.0%	3	0.8%	2	0.5%	2	0.5%	5	1.3% 0.0%
(23)	230170	Other Foundation, Structure, and Building Exterior	24	100%	2	8.3%	5	20.8%	1	4.2%		4.2%		0.0%		0.0%		0.0%		0.0%		0.0%
(30)	238190	Contractors	181	100%	16	8.8%	27	14.9%	17	9.4%	18	9.9%	7	3.9%	3	1.7%	3	1.7%	2	1.1%	7	3.9%
(31)	2382	Building Equipment Contractors	4,034	100%	523	13.0%	832	20.6%	528	13.1%	334	8.3%	134	3.3%	98	2.4%	62	1.5%	41	1.0%	119	2.9%
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	1,908	100%	232	12.2%	343	18.0%	236	12.4%	152	8.0%	46	2.4%	49	2.6%	34	1.8%	22	1.2%	70	3.7%
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	1,694	100%	227	13.4%	389	23.0%	230	13.6%	150	8.9%	73	4.3%	42	2.5%	23	1.4%	18	1.1%	35	2.1%
(34)	238290	Other Building Equipment Contractors	432	100%	64	14.8%	100	23.1%	62	14.4%	32	7.4%	15	3.5%	7	1.6%	5	1.2%	1	0.2%	14	3.2%
(35)	2383 238310	Building Finishing Contractors	1,220 88	100% 100%	150	12.3% 15.9%	201	16.5%	115 8	9.4%	61 8	5.0% 9.1%	33 2	2.7% 2.3%	9 1	0.7%	10 1	0.8% 1.1%	4 1	0.3% 1.1%	28 2	2.3% 2.3%
(36) (37)	238310	Drywall and Insulation Contractors Painting and Wall Covering Contractors	319	100%	14 33	15.9%	14 46	15.9% 14.4%	8 25	9.1% 7.8%	8 11	9.1% 3.4%	2	2.3%	2	1.1% 0.6%	2	0.6%	1	0.0%	2	2.3% 0.6%
(37)	238330	Flooring Contractors	370	100%	54	10.3%	46 63	17.0%	25 36	9.7%	17	3.4% 4.6%	4	2.2%	2	0.6%	2	0.8%	1	0.0%	2 5	1.4%
(30)	238330	Tile and Terrazzo Contractors	370	100%	4	12.5%	7	21.9%	30	9.4%	2	6.3%	1	3.1%	2	0.0%		0.3%		0.3%	1	3.1%
(40)	238350	Finish Carpentry Contractors	138	100%	13	9.4%	23	16.7%	13	9.4%	7	5.1%	1	0.7%		0.0%	1	0.7%		0.0%	3	2.2%
(41)	238390	Other Building Finishing Contractors	273	100%	32	11.7%	48	17.6%	30	11.0%	16	5.9%	17	6.2%	4	1.5%	5	1.8%	2	0.7%	15	5.5%
(42)	2389	Other Specialty Trade Contractors	1,910	100%	234	12.3%	343	18.0%	211	11.0%	145	7.6%	59	3.1%	33	1.7%	24	1.3%	11	0.6%	36	1.9%
(43)	238910	Site Preparation Contractors	425	100%	49	11.5%	91	21.4%	31	7.3%	19	4.5%	7	1.6%	8	1.9%	4	0.9%	6	1.4%	6	1.4%
(44)	238990	All Other Specialty Trade Contractors	1,485	100%	185	12.5%	252	17.0%	180	12.1%	126	8.5%	52	3.5%	25	1.7%	20	1.3%	5	0.3%	30	2.0%
(45)	23	All Construction Firms	14,679	100%	1,729	11.8%	2,741	18.7%	1,799	12.3%	1,415	9.6%	596	4.1%	359	2.4%	266	1.8%	166	1.1%	424	2.9%

Appendix Table E.12 Construction Firms, Nationwide, Cumulative Percentage, by Average Firm Revenue, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)	(q)
r										Firms by Ave							
	NAICS Code	Industry Sector	<\$10.000	\$10,000-	\$20,000-	\$30,000-	\$40,000-	\$50,000-	\$75,000-	\$100,000-	\$150,000-	\$200,000-	\$250,000-	\$500,000-			\$2,000,000-
				\$20,000	\$30,000	\$40,000	\$50,000	\$75,000	\$100,000	\$150,000	\$200,000	\$250,000	\$500,000	\$750,000			\$5,000,000
(1)		Construction of Buildings	0.7%	1.0%	1.5%	1.8%	2.4%	3.6%	5.3%	7.1%	8.8%	10.6%	17.5%	21.3%	27.2%	38.1%	56.3%
(2)		Residential Building Construction	4.3%	4.9%	6.5%	8.7%	10.9%	14.1%	17.4%	20.7%	25.5%	30.4%	39.7%	43.5%	47.8%	59.2%	72.8%
(3)	236115	New Single-Family Housing Construction (except Operative Builders)	8.8%	8.8%	8.8%	8.8%	11.8%	11.8%	17.6%	17.6%	17.6%	17.6%	26.5%	29.4%	35.3%	52.9%	64.7%
(4)		New Multifamily Housing Construction (except Operative Builders)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	5.9%	5.9%	5.9%	11.8%	11.8%	29.4%	52.9%
(5)		New Housing Operative Builders	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%
(6)		Residential Remodelers	3.8%	4.6%	6.9%	9.9%	12.2%	16.8%	19.8%	23.7%	30.5%	37.4%	48.1%	51.9%	56.5%	65.6%	77.9%
(7)		Nonresidential Building Construction	0.5%	0.8%	1.3%	1.5%	1.9%	3.0%	4.7%	6.4%	7.9%	9.5%	16.3%	20.1%	26.1%	36.9%	55.4%
(8)	236210	Industrial Building Construction	0.5%	1.1%	1.3%	1.6%	2.1%	3.2%	4.8%	6.1%	8.0%	9.1%	16.0%	20.3%	26.7%	38.0%	54.8%
(9)		Commercial and Institutional Building Construction	0.5%	0.8%	1.3%	1.5%	1.9%	3.0%	4.6%	6.4%	7.9%	9.5%	16.3%	20.1%	26.0%	36.8%	55.4%
(10)		Heavy and Civil Engineering Construction	0.3%	0.6%	1.1%	1.6%	2.3%	3.5%	6.3%	8.6%	10.8%	13.3%	21.5%	26.4%	33.3%	43.6%	61.5%
(11)		Utility System Construction	0.1%	0.2%	0.6%	1.0%	1.6%	2.7%	5.6%	7.9%	10.6%	13.2%	22.1%	28.1%	37.2%	48.6%	67.5%
(12)		Water and Sewer Line and Related Structures Construction	0.0%	0.0%	0.6%	1.0%	1.4%	2.8%	6.5%	9.1%	13.0%	16.0%	27.8%	34.7%	45.2%	57.4%	75.9%
(13)	23/120	Oil and Gas Pipeline and Related Structures Construction	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	4.2%	5.6%	5.6%	5.6%	12.5%	19.4%	29.2%	38.9%	58.3%
(14)		Power and Communication Line and Related Structures Construction	0.4%	0.8%	0.8%	1.1%	2.3%	2.7%	4.2%	6.1%	7.6%	9.9%	14.1%	17.9%	24.4%	34.7%	54.2%
(15)		Land Subdivision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%
(16)		Land Subdivision	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%
(17)	2373	Highway, Street, and Bridge Construction	0.4%	0.7%	1.2%	1.8%	2.8%	3.7%	7.0%	9.7%	11.9%	15.3%	23.1%	28.4%	35.1%	44.9%	62.6%
(18)	237310	Highway, Street, and Bridge Construction	0.4%	0.7%	1.2%	1.8%	2.8%	3.7%	7.0%	9.7%	11.9%	15.3%	23.1%	28.4%	35.1%	44.9%	62.6%
(19)	2379	Other Heavy and Civil Engineering Construction	0.4%	0.8%	1.4%	1.8%	2.4%	3.9%	6.2%	8.1%	10.1%	11.7%	19.7%	23.5%	29.0%	38.7%	56.3%
(20)	237990	Other Heavy and Civil Engineering Construction	0.4%	0.8%	1.4%	1.8%	2.4%	3.9%	6.2%	8.1%	10.1%	11.7%	19.7%	23.5%	29.0%	38.7%	56.3%
(21)	238	Specialty Trade Contractors	0.7%	1.4%	2.1%	2.8%	3.9%	5.3%	8.1%	11.1%	14.0%	16.4%	26.8%	32.2%	39.5%	52.2%	71.4%
(22)	2381	Foundation, Structure, and Building Exterior Contractors	0.8%	1.2%	2.3%	3.3%	4.8%	5.9%	9.4%	12.7%	15.4%	18.6%	29.7%	35.8%	43.8%	56.8%	75.5%
(23)		Poured Concrete Foundation and Structure Contractors	0.7%	2.1%	2.8%	2.8%	4.9%	6.3%	9.9%	14.1%	16.9%	19.7%	37.3%	43.7%	49.3%	62.7%	81.7%
(24)	238120	Structural Steel and Precast Concrete Contractors	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	4.9%	7.3%	7.3%	19.5%	26.8%	35.4%	52.4%	70.7%
(25)	238130	Framing Contractors	0.0%	0.0%	0.0%	2.3%	4.7%	4.7%	7.0%	11.6%	18.6%	20.9%	32.6%	39.5%	46.5%	58.1%	69.8%
(26)	238140	Masonry Contractors	1.4%	1.4%	1.4%	2.7%	4.1%	4.1%	13.7%	19.2%	20.5%	26.0%	37.0%	39.7%	49.3%	54.8%	75.3%
(27)	238150	Glass and Glazing Contractors	0.8%	0.8%	1.7%	2.5%	3.4%	4.2%	7.6%	10.9%	13.4%	16.8%	27.7%	32.8%	40.3%	55.5%	79.8%
(28)		Roofing Contractors	0.5%	1.3%	2.1%	2.9%	4.5%	6.3%	9.2%	11.5%	13.6%	17.0%	26.2%	32.2%	41.6%	56.8%	75.9%
(29)	238170	Siding Contractors	0.0%	0.0%	8.3%	16.7%	25.0%	29.2%	29.2%	33.3%	37.5%	50.0%	58.3%	62.5%	62.5%	70.8%	91.7%
(30)		Other Foundation, Structure, and Building Exterior Contractors	1.7%	1.7%	3.9%	5.0%	6.1%	6.6%	10.5%	13.8%	17.1%	19.9%	29.8%	37.0%	44.8%	53.6%	68.5%
(31)	2382	Building Equipment Contractors	0.4%	1.0%	1.6%	1.9%	2.5%	3.6%	5.4%	7.6%	10.2%	12.2%	21.8%	26.6%	33.8%	46.8%	67.4%
(32)		Electrical Contractors and Other Wiring Installation Contractors	0.5%	1.1%	1.7%	2.1%	2.9%	4.4%	6.3%	8.9%	12.1%	14.3%	26.2%	31.2%	37.9%	50.1%	68.1%
(33)		Plumbing, Heating, and Air-Conditioning Contractors	0.4%	1.1%	1.5%	1.8%	2.2%	3.1%	4.8%	6.5%	8.6%	10.2%	17.9%	23.0%	29.9%	43.3%	66.3%
(34)		Other Building Equipment Contractors	0.0%	0.7%	1.2%	1.6%	1.9%	2.5%	3.7%	6.0%	8.6%	10.9%	17.4%	20.4%	30.6%	45.4%	68.5%
(35)	2383	Building Finishing Contractors	0.9%	2.0%	2.9%	4.3%	6.3%	8.1%	12.9%	17.1%	20.3%	23.0%	35.7%	41.7%	49.9%	62.2%	78.7%
(36)		Drywall and Insulation Contractors	0.0%	0.0%	0.0%	0.0%	3.4%	3.4%	5.7%	11.4%	12.5%	14.8%	28.4%	31.8%	42.0%	58.0%	73.9%
(37)	238320	Painting and Wall Covering Contractors	1.3%	3.8%	5.0%	8.8%	12.2%	15.0%	22.9%	28.2%	33.5%	36.7%	48.9%	54.9%	60.8%	71.2%	85.6%
(38)	238330	Flooring Contractors	0.3%	1.4%	1.6%	2.2%	4.1%	4.9%	8.4%	12.2%	13.8%	17.0%	29.2%	37.3%	49.5%	64.1%	81.1%
(39)		Tile and Terrazzo Contractors	0.0%	0.0%	3.1%	3.1%	3.1%	3.1%	12.5%	15.6%	21.9%	21.9%	31.3%	34.4%	43.8%	56.3%	78.1%
(40)		Finish Carpentry Contractors	1.4%	2.9%	4.3%	5.8%	8.0%	13.0%	18.1%	23.9%	26.1%	28.3%	46.4%	48.6%	55.8%	65.2%	81.9%
(41)		Other Building Finishing Contractors	1.5%	1.5%	2.2%	2.6%	2.9%	4.0%	7.0%	9.5%	13.2%	15.0%	26.4%	33.0%	38.1%	49.8%	67.4%
(42)		Other Specialty Trade Contractors	1.0%	1.9%	2.7%	3.5%	4.9%	6.6%	10.2%	14.0%	17.1%	19.9%	30.3%	35.9%	42.6%	54.9%	72.8%
(43)	238910	Site Preparation Contractors	2.4%	2.8%	3.5%	4.5%	6.6%	7.8%	11.5%	16.0%	19.3%	22.8%	33.6%	40.2%	48.0%	59.5%	80.9%
(44)	238990	All Other Specialty Trade Contractors	0.6%	1.6%	2.4%	3.2%	4.4%	6.3%	9.8%	13.5%	16.4%	19.1%	29.4%	34.6%	41.1%	53.5%	70.5%
(45)	23	All Construction Firms	0.6%	1.2%	1.8%	2.3%	3.2%	4.5%	7.1%	9.7%	12.1%	14.4%	23.5%	28.4%	35.3%	47.1%	65.8%

Appendix Table E.12 Construction Firms, Nationwide, Cumulative Percentage, by Average Firm Revenue, Federal Procurement Data System 2009

	(a)	(b)	(r)	(s)	(t)	(u)	(v)	(w)	(x)
	()					e of Firms by /			
		ha desetar Os star	\$5,000,000-	\$10,000,000-	\$25,000,000-	\$50,000,000-	\$100,000,000-	\$250,000,000-	>
	NAICS Code	Industry Sector	\$10,000,000	\$25,000,000	\$50,000,000	\$100,000,000	\$250,000,000	\$500,000,000	\$500,000,000
(1)	236	Construction of Buildings	69.5%	83.4%	88.7%	91.9%	94.5%	96.3%	100.0%
(2)	2361	Residential Building Construction	81.5%	86.4%	89.7%	93.5%	96.2%	97.8%	100.0%
(3)	236115	New Single-Family Housing Construction (except	73.5%	73.5%	76.5%	85.3%	94.1%	100.0%	100.0%
(0)	200110	Operative Builders)	10.070	10.070	10.070	00.070	04.170	100.070	100.070
(4)	236116	New Multifamily Housing Construction (except Operative Builders)	64.7%	82.4%	82.4%	88.2%	94.1%	94.1%	100.0%
(5)	236117	New Housing Operative Builders	50.0%	50.0%	50.0%	50.0%	50.0%	100.0%	100.0%
(6)		Residential Remodelers	86.3%	90.8%	94.7%	96.9%	97.7%	97.7%	100.0%
(7)	2362	Nonresidential Building Construction	68.8%	83.2%	88.6%	91.8%	94.4%	96.2%	100.0%
(8)		Industrial Building Construction	70.6%	86.9%	92.2%	95.2%	96.5%	97.9%	100.0%
(9)	236220	Commercial and Institutional Building Construction	68.6%	82.7%	88.2%	91.3%	94.1%	96.0%	100.0%
(10)	237	Heavy and Civil Engineering Construction	74.1%	84.7%	89.9%	93.2%	95.5%	96.8%	100.0%
(11)		Utility System Construction	78.2%	85.4%	89.5%	92.5%	94.6%	95.6%	100.0%
		Water and Sewer Line and Related Structures							
(12)	237110	Construction	85.4%	92.7%	94.5%	96.8%	98.2%	98.8%	100.0%
(13)	237120	Oil and Gas Pipeline and Related Structures Construction	68.1%	75.0%	83.3%	90.3%	93.1%	95.8%	100.0%
(14)	237130	Power and Communication Line and Related	67.6%	74.4%	81.7%	85.1%	88.2%	89.7%	100.0%
(15)		Structures Construction							
(15)		Land Subdivision	33.3%	66.7%	66.7%	66.7%	66.7%	66.7%	100.0%
(16)		Land Subdivision	33.3%	66.7%	66.7%	66.7%	66.7%	66.7%	100.0%
		Highway, Street, and Bridge Construction	75.4%	85.4%	91.1%	93.7%	95.7%	97.1%	100.0%
(18)		Highway, Street, and Bridge Construction	75.4%	85.4%	91.1%	93.7%	95.7%	97.1%	100.0%
(19)	2379	Other Heavy and Civil Engineering Construction	70.1%	83.7%	89.3%	93.3%	96.2%	97.5%	100.0%
(20)		Other Heavy and Civil Engineering Construction	70.1%	83.7%	89.3%	93.3%	96.2%	97.5%	100.0%
(21)	238	Specialty Trade Contractors	83.1%	90.6%	93.7%	95.5%	96.8%	97.6%	100.0%
(22)	2381	Foundation, Structure, and Building Exterior Contractors	85.9%	92.9%	95.9%	96.8%	97.7%	98.5%	100.0%
(23)	238110	Poured Concrete Foundation and Structure Contractors	87.3%	93.0%	96.5%	97.9%	97.9%	98.6%	100.0%
(24)	238120	Structural Steel and Precast Concrete Contractors	80.5%	90.2%	96.3%	96.3%	96.3%	98.8%	100.0%
(25)	238130	Framing Contractors	86.0%	93.0%	97.7%	97.7%	97.7%	97.7%	100.0%
(26)	238140	Masonry Contractors	86.3%	97.3%	98.6%	98.6%	100.0%	100.0%	100.0%
(27)		Glass and Glazing Contractors	89.1%	93.3%	95.0%	96.6%	99.2%	100.0%	100.0%
(28)		Roofing Contractors	88.7%	94.5%	96.9%	97.6%	98.2%	98.7%	100.0%
(29)		Siding Contractors	95.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(30)	238190	Other Foundation, Structure, and Building Exterior Contractors	77.9%	87.8%	91.7%	93.4%	95.0%	96.1%	100.0%
(31)	2382	Building Equipment Contractors	80.5%	88.7%	92.1%	94.5%	96.0%	97.1%	100.0%
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	80.5%	88.4%	90.8%	93.4%	95.2%	96.3%	100.0%
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	79.9%	88.7%	93.0%	95.5%	96.9%	97.9%	100.0%
(34)	238290	Other Building Equipment Contractors	82.9%	90.3%	93.8%	95.4%	96.5%	96.8%	100.0%
(35)	2383	Building Finishing Contractors	88.1%	93.1%	95.8%	96.6%	97.4%	97.7%	100.0%
(36)	238310	Drywall and Insulation Contractors	83.0%	92.0%	94.3%	95.5%	96.6%	97.7%	100.0%
(37)		Painting and Wall Covering Contractors	93.4%	96.9%	98.1%	98.7%	99.4%	99.4%	100.0%
(38)	238330	Flooring Contractors	90.8%	95.4%	97.6%	98.1%	98.4%	98.6%	100.0%
(39)	238340	Tile and Terrazzo Contractors	87.5%	93.8%	96.9%	96.9%	96.9%	96.9%	100.0%
(40)		Finish Carpentry Contractors	91.3%	96.4%	97.1%	97.1%	97.8%	97.8%	100.0%
(41)	238390	Other Building Finishing Contractors	78.4%	84.2%	90.5%	91.9%	93.8%	94.5%	100.0%
(42)	2389	Other Specialty Trade Contractors	83.9%	91.5%	94.6%	96.3%	97.5%	98.1%	100.0%
(43)	238910	Site Preparation Contractors	88.2%	92.7%	94.4%	96.2%	97.2%	98.6%	100.0%
(44)	238990	All Other Specialty Trade Contractors	82.6%	91.1%	94.6%	96.3%	97.6%	98.0%	100.0%
(45)	23	All Construction Firms	78.0%	87.7%	91.7%	94.2%	96.0%	97.1%	100.0%

Appendix Table E.13 Construction Firms, Nationwide, by Number of Employees, Average Revenue per Employee, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	(-)	(-)	(-)	(-/				by Number of E		0/	()
	NAICS Code	Industry Sector	1-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 +
(1)	236	Construction of Buildings	\$307,352	\$307,360	\$290,580	\$314,930	\$295,781	\$431,445	\$447,590	\$580,071	\$461,875
(2)	2361	Residential Building Construction	\$189,551	\$315,776	\$238,459	\$237,477	\$228,526	\$1,169,104	\$199,472	\$244,244	\$697,644
		New Single-Family Housing Construction (except									
(3)	236115	Operative Builders)	\$294,491	\$94,148	\$230,199	\$133,355	\$200,000	\$1,275,996	\$341,667	\$154,167	\$62,976
		New Multifamily Housing Construction (except									
(4)	236116	Operative Builders)	\$466,389	\$400,000	\$379,798	\$399,490	\$243,137		\$240,000	\$554,908	
(5)	236117	New Housing Operative Builders			\$233,333			\$1,750,000			
(6)	236118	Residential Remodelers	\$154,131	\$354,487	\$219,020	\$204,298	\$228,473	\$267,533	\$91,165	\$97,187	\$1,120,757
(7)	2362	Nonresidential Building Construction	\$322,835	\$307,044	\$293,054	\$317,394	\$298,882	\$417,260	\$461,002	\$623,604	\$454,318
(8)	236210	Industrial Building Construction	\$252,577	\$281,171	\$297,437	\$329,889	\$291,468	\$341,135	\$247,488	\$629,959	\$553,141
		·									
(9)	236220	Commercial and Institutional Building Construction	\$331,846	\$309,944	\$292,450	\$315,572	\$299,876	\$426,447	\$482,142	\$623,231	\$446,821
(10)	237	Heavy and Civil Engineering Construction	\$204,498	\$221,310	\$249.942	\$228,501	\$251,581	\$260,408	\$310,979	\$335,618	\$382,500
(11)	2371	Utility System Construction	\$183,813	\$195,629	\$198,849	\$216,190	\$256,509	\$279,216	\$224,109	\$300,523	\$356,988
		Water and Sewer Line and Related Structures									
(12)	237110	Construction	\$176,423	\$170,454	\$184,428	\$184,315	\$214,062	\$182,809	\$241,439	\$156,789	\$249,575
		Oil and Gas Pipeline and Related Structures									
(13)	237120	Construction	\$242,107	\$375,016	\$168,459	\$209,981	\$384,307	\$458,888	\$243,160	\$152,000	\$231,241
		Power and Communication Line and Related									
(14)	237130	Structures Construction	\$193,906	\$215,555	\$230,039	\$268,902	\$279,990	\$340,565	\$193,352	\$397,411	\$429,293
(15)	2372	Land Subdivision	\$1,825,000			\$75,000	\$230,769	\$140,909			\$1,316,667
(16)	237210	Land Subdivision	\$1,825,000			\$75,000 \$75,000	\$230,769	\$140,909			\$1,316,667
(10)	237210	Highway, Street, and Bridge Construction	\$187,673	\$204,015	\$265,431	\$208,080	\$230,709 \$242,999	\$230,471	\$226,439	\$491,486	\$348,253
(17)	237310	Highway, Street, and Bridge Construction	\$187,673	\$204,015 \$204,015	\$265,431 \$265,431	\$208,080	\$242,999 \$242,999	\$230,471	\$226,439 \$226,439	\$491,486	\$348,253
(10)	237310	Other Heavy and Civil Engineering Construction	\$187,673 \$229,841	\$204,015 \$262,438	\$286,425	\$208,080 \$253,034	\$242,999 \$256,136	\$230,471 \$274,013	\$220,439 \$421,514	\$491,400 \$270,919	\$403,180
(19)	2379										
(20)	237990	Other Heavy and Civil Engineering Construction Specialty Trade Contractors	\$229,841 \$197,762	\$262,438 \$192,847	\$286,425 \$205,854	\$253,034 \$189,607	\$256,136 \$189,784	\$274,013 \$100,651	\$421,514 \$258,316	\$270,919 \$307,391	\$403,180 \$338,551
(21)	230	Foundation, Structure, and Building Exterior	φ197,70Z	φ192,04 <i>1</i>	φ205,654	\$169,007	\$109,704	\$199,651	\$200,510	\$307,391	\$336,33T
(22)	2381	Contractors	\$184,419	\$179,245	\$200,123	\$163,260	\$174,436	\$189,871	\$218,209	\$456,658	\$430,576
		Poured Concrete Foundation and Structure									
(23)	238110	Contractors	\$204,474	\$283,380	\$143,951	\$170,922	\$240,043	\$183,289	\$99,286	\$142,996	\$169,694
		Contractors									
(24)	238120	Structural Steel and Precast Concrete Contractors	\$238,439	\$172,652	\$228,635	\$159,618	\$158,961	\$244,368	\$92,634	\$554,987	\$149,574
(25)	238130	Framing Contractors	\$234,480	\$208,366	\$236,457	\$231,668	\$117,063	\$123,105	\$86,394		\$188,889
(25)	238130	Masonry Contractors	\$234,480 \$144,995	\$208,300 \$139,940	\$230,437 \$242,067	\$231,000 \$147,120	\$143,631	\$128,610	\$60,394 \$72,304		\$138,333
(20)	238140	Glass and Glazing Contractors	\$144,995 \$125,337	\$139,940 \$146,571	\$242,007 \$182,619	\$167,834	\$171,388	\$268,095	\$491,923		\$148,916
(28)	238150	Roofing Contractors	\$125,337 \$211,467	\$140,571 \$191,551	\$181,095	\$107,834 \$142,077	\$171,388 \$149,461	\$208,095 \$182,742	\$491,923 \$230,870		\$586,648
(20)	238100	Siding Contractors	\$63,988	\$104,538	\$257,143	\$129,444	\$103,770	\$102,742	φ230,070		<i>4</i> 000,040
(29)	230170	Other Foundation, Structure, and Building Exterior	403,900	\$104,556	φ237,143	φ129,444	\$103,770				
(30)	238190	Contractors	\$164,957	\$138,985	\$273,389	\$215,335	\$246,154	\$187,595	\$287,348	\$600,213	\$580,583
(31)	2382	Building Equipment Contractors	\$205,984	\$188,676	\$192,480	\$187,724	\$184,569	\$194,866	\$283,069	\$309,305	\$323,745
		Electrical Contractors and Other Wiring Installation									
(32)	238210	Contractors	\$182,976	\$163,553	\$194,154	\$181,652	\$171,432	\$215,181	\$319,622	\$295,163	\$334,173
		Plumbing, Heating, and Air-Conditioning									
(33)	238220	Contractors	\$229,017	\$205,118	\$184,802	\$197,261	\$201,352	\$186,848	\$262,827	\$326,456	\$297,937
(34)	238290	Other Building Equipment Contractors	\$238,039	\$239,740	\$213,067	\$171,993	\$172,769	\$140,660	\$167,982	\$286,023	\$342,450
(34)	238290	Building Finishing Contractors	\$238,039 \$233,561	\$239,740 \$193,122	\$213,067 \$224,093	\$171,993	\$172,769 \$218,977	\$140,660 \$181,393	\$167,982 \$243,402	\$200,023 \$297,474	\$342,450 \$255,167
(36)											
	238310	Drywall and Insulation Contractors	\$346,537 \$159,471	\$167,404 \$141,485	\$115,241 \$160,420	\$397,959 \$121,760	\$133,584 \$170,028	\$140,215 \$122,172	\$209,028	\$455,406	\$402,075 \$101,117
(37)	238320	Painting and Wall Covering Contractors	\$158,471 \$282,042	\$141,485 \$227,506	\$169,429 \$274,479	\$121,760 \$104,152	\$170,038 \$224,410	\$132,172 \$228,270	\$244 444	¢100 000	\$101,117 \$147.056
(38) (39)	238330 238340	Flooring Contractors	\$282,042	\$227,506	\$274,478	\$194,152 \$221,026	\$234,410	\$228,370 \$201,220	\$244,444	\$188,602	\$147,056
		Tile and Terrazzo Contractors	\$278,833 \$220,052	\$120,556 \$120,662	\$194,875 \$157,711	\$231,936 \$185,000	\$79,722 \$202,700	\$201,230 \$106,208		¢257 296	\$284,553 \$538,010
(40)	238350	Finish Carpentry Contractors	\$220,952 \$222,124	\$129,662 \$252,228	\$157,711 \$250,008	\$185,909 \$218,471	\$203,790 \$280,481	\$196,308 \$222.614	\$256 460	\$357,286	\$538,910 \$268,267
(41) (42)	238390 2389	Other Building Finishing Contractors	\$232,134 \$165,359	\$252,338	\$259,008 \$226,171	\$218,471 \$205,442	\$289,481 \$196,839	\$223,614 \$223,765	\$256,162 \$212,026	\$265,979	\$268,367 \$407,325
		Other Specialty Trade Contractors		\$208,913 \$204,462		\$205,443 \$158,465			\$213,036 \$227,540		\$407,325
(43)	238910	Site Preparation Contractors	\$208,642 \$140,204	\$204,462	\$217,481 \$228,577	\$158,465	\$238,704	\$208,024	\$237,540 \$208,660	\$340,641 \$244.647	\$622,724
(44) (45)	238990 23	All Other Specialty Trade Contractors	\$149,304 \$220,127	\$210,099	\$228,577	\$219,209	\$189,749 \$221,224	\$226,485 \$282,059	\$208,660 \$330,378	\$244,647	\$353,475
(43)	23	All Construction Firms	φζζυ, Ιζ <i>Ι</i>	\$223,388	\$235,262	\$228,960	\$231,234	¢∠0∠,059	JJJJ,310	\$391,977	\$383,173

Appendix Table E.14 Construction Firms, Nationwide, by Average Firm Revenue, Average Revenue per Employee, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)
1				\$10,000-	\$20,000-	\$30,000-	\$40,000-	Average Rev \$50,000-	renue per Emple \$75,000-	oyee by Averag \$100,000-	e Firm Revenu \$150,000-	le \$200,000-	\$250,000-	\$500,000-	\$750,000-	\$1,000,000-
	NAICS Code	e Industry Sector	<\$10,000	\$20,000	\$30,000	\$40,000	\$50,000	\$75,000	\$100,000	\$150,000	\$200,000	\$250,000	\$500,000	\$750,000	\$1,000,000	\$2,000,000
	236	Construction of Buildings	\$6,163	\$15,051	\$19,506	\$17,626	\$23,528	\$36,144	\$49,939	\$67,202	\$87,258	\$103,297	\$120,327	\$141,605	\$180,597	\$249,768
(2)	2361	Residential Building Construction New Single-Family Housing Construction (except	\$6,823	\$20,000	\$19,167	\$19,583	\$25,812	\$50,433	\$83,333	\$88,920	\$103,192	\$85,161	\$133,273	\$140,837	\$162,747	\$196,420
(3)	236115	Operative Builders)	\$7,227				\$16,667		\$100,000				\$56,667	\$156,205	\$382,167	\$160,353
(0)	236116	New Multifamily Housing Construction (except								\$45,000				\$187,500		\$208,893
(4)		Operative Builders)								\$45,000				\$167,500		¢200,093
(5)	236117 236118	New Housing Operative Builders	\$6,580	\$20,000	\$19,167	\$19,583	\$28,861	\$50,433	\$75.000	\$97,704	\$103,192	\$85,161	\$149,688	\$128,430	\$89,607	\$211,336
(6) (7)	236118	Residential Remodelers Nonresidential Building Construction	\$6,580 \$5,833	\$20,000 \$14,601	\$19,167 \$19,574	\$19,583 \$16,508	\$28,861 \$22,919	\$50,433 \$33,827	\$75,000 \$46,229	\$97,704 \$64,956	\$103,192 \$84,390	\$85,161 \$106,436	\$149,688 \$119,358	\$128,430 \$141,648	\$89,607 \$181,315	\$252,863
(8)	236210	Industrial Building Construction	\$5,000	\$13,300	\$30,000	\$13,333	\$50,000	\$40,954	\$48,700	\$53,125	\$84,705	\$127,982	\$139,808	\$120,684	\$184,367	\$228,238
(9)	236220	Commercial and Institutional Building Construction	\$5,952	\$14,890	\$18,829	\$17,037	\$18,752	\$32,963	\$45,920	\$66,072	\$84,339	\$104,641	\$116,712	\$144,670	\$180,896	\$256,095
	237	Heavy and Civil Engineering Construction	\$5,573	\$11,513	\$20,200	\$28,382	\$28,361	\$39,886	\$53,498	\$65,230	\$86,750	\$102,018	\$138,383	\$155,158	\$147,161	\$186,356
(11)	2371	Utility System Construction	\$5,000	\$7,500	\$21,333	\$29,067	\$18,500	\$41,919	\$48,408	\$71,211	\$92,841	\$103,001	\$139,901	\$154,632	\$138,736	\$168,463
(12)	237110	Water and Sewer Line and Related Structures			\$21,333	\$34,850	\$11,250	\$42,143	\$48,769	\$73,064	\$87,067	\$116,354	\$149,150	\$157,336	\$145,138	\$172,207
()	207110	Construction			φ21,000	φ04,000	ψ11,200	ψ 1 2,140	φ-10,7 00	φ10,004	φ01,001	ψ110,004	ψ140,100	φ107,000	ψ140,100	ψ172,207
(13)	237120	Oil and Gas Pipeline and Related Structures Construction						\$15,000	\$100,000	\$125,000			\$89,390	\$141,667	\$98,316	\$177,067
(14)	237130	Power and Communication Line and Related	\$5,000	\$7,500		\$17,500	\$23,333	\$67,272	\$20,985	\$55,635	\$120,268	\$69,620	\$114,094	\$151,922	\$135,795	\$157,913
		Structures Construction	<i>40,000</i>	<i></i>		¢,000	\$20,000	\$01,212	\$20,000	400,000	\$120 <u>,</u> 200	\$00,0 <u>2</u> 0	ф. н.,со н	\$101,0 <u>2</u>	\$100,100	
(15) (16)	2372 237210	Land Subdivision Land Subdivision														\$950,000 \$950,000
(10)	237210	Highway, Street, and Bridge Construction	\$5,283	\$12,739	\$24,800	\$33,960	\$32,417	\$39,326	\$57,940	\$68,215	\$92,092	\$98,604	\$138,362	\$173,716	\$146,401	\$167,606
(18)	237310	Highway, Street, and Bridge Construction	\$5,283	\$12,739	\$24,800	\$33,960	\$32,417	\$39,326	\$57,940	\$68,215	\$92,092	\$98,604	\$138,362	\$173,716	\$146,401	\$167,606
(19)	2379	Other Heavy and Civil Engineering Construction	\$6,005	\$11,581	\$16,429	\$19,500	\$29,612	\$39,105	\$52,559	\$55,979	\$75,782	\$107,318	\$137,153	\$132,883	\$158,297	\$204,634
(20)	237990	Other Heavy and Civil Engineering Construction	\$6,005	\$11,581	\$16,429	\$19,500	\$29,612	\$39,105	\$52,559	\$55,979	\$75,782	\$107,318	\$137,153	\$132,883	\$158,297	\$204,634
(21)	238	Specialty Trade Contractors Foundation, Structure, and Building Exterior	\$5,930	\$13,646	\$20,215	\$22,573	\$33,377	\$39,162	\$51,617	\$69,905	\$80,584	\$100,689	\$123,670	\$161,343	\$161,888	\$195,169
(22)	2381	Contractors	\$4,666	\$11,174	\$24,324	\$24,525	\$31,318	\$29,435	\$46,881	\$83,214	\$68,535	\$84,296	\$123,240	\$183,532	\$138,016	\$179,961
(23)	238110	Poured Concrete Foundation and Structure	\$2,495	\$7,500	\$25,000		\$48,333	\$5,315	\$44,667	\$97,500	\$65,000	\$108,443	\$113,360	\$165,789	\$92,536	\$115,373
		Contractors														
(24)	238120	Structural Steel and Precast Concrete Contractors							\$24,900	\$30,045	\$53,333		\$124,150	\$87,964	\$145,807	\$209,501
(25)	238130	Framing Contractors				\$40,000	\$50,000		\$26,667	\$97,500	\$80,000	\$125,000	\$160,289	\$298,833	\$234,389	\$279,025
(26)	238140	Masonry Contractors	\$5,000		6 05 000	\$4,561	\$50,000	A75 000	\$65,000	\$72,762	\$60,000	\$98,560	\$132,541	\$147,917	\$158,032	\$161,942
(27) (28)	238150 238160	Glass and Glazing Contractors Roofing Contractors	\$10,000 \$2,750	\$13,624	\$25,000 \$28,333	\$36,650 \$19,467	\$10,000 \$26,319	\$75,000 \$31,594	\$12,615 \$45,530	\$118,125 \$88,381	\$73,917 \$64,375	\$69,236 \$72,466	\$151,165 \$110,513	\$100,857 \$207,815	\$124,739 \$140,645	\$152,611 \$202,022
(29)	238170	Siding Contractors	ψ2,700	ψ10,024	\$19,533	\$25,317	\$19,583	\$11,441	φ-10,000	\$125,000	\$66,667	\$50,000	\$98,667	\$187,500	ψ140,040	\$232,143
(30)	238190	Other Foundation, Structure, and Building Exterior	\$4,778		\$23,375	\$27,500	\$24,500	\$35,000	\$58,076	\$59,732	\$74,818	\$108,812	\$129,343	\$213,685	\$131,224	\$148,631
(31)	2382	Contractors Building Equipment Contractors	\$5,143	\$13,269	\$17,504	\$18,210	\$35,851	\$36,940	\$48,096	\$73,905	\$87,066	\$96.510	\$124,099	\$141,603	\$161,331	\$190.393
(32)	238210	Electrical Contractors and Other Wiring Installation	\$5,295	\$12,713		\$16,879	\$33,646	\$36,439	\$46,922	\$74,839	\$79,616	\$100,069	\$120,783	\$122,803		\$181,630
(32)	238210	Contractors	\$5,295	\$12,713	\$17,507	\$16,879	\$33,646	\$36,439	\$46,922	\$74,839	\$79,616	\$100,069	\$120,783	\$122,803	\$189,691	\$181,630
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	\$4,889	\$13,450	\$17,142	\$22,630	\$39,688	\$40,835	\$52,449	\$72,998	\$95,905	\$103,276	\$132,962	\$158,046	\$141,426	\$188,441
(34)	238290	Other Building Equipment Contractors		\$14,583	\$18,750	\$11,818	\$40,450	\$23,269	\$31,544	\$71,960	\$100,256	\$62,614	\$109,520	\$172,930	\$131,565	\$229,082
(35)	2383	Building Finishing Contractors	\$6,439	\$14,342	\$19,880	\$22,040	\$30,305	\$43,503	\$49,064	\$58,324	\$55,456	\$111,529	\$124,704	\$188,047	\$198,764	\$249,587
(36)	238310	Drywall and Insulation Contractors				• • • • • •	\$28,650		\$35,000	\$58,411	\$85,000	\$152,667	\$105,399	\$219,167	\$185,007	\$344,799
(37) (38)	238320 238330	Painting and Wall Covering Contractors Flooring Contractors	\$5,000 \$10,000	\$14,932 \$16,167	\$27,902 \$3,948	\$16,373 \$38,100	\$28,744 \$27,140	\$51,230 \$33,167	\$51,240 \$44,903	\$61,662 \$63,084	\$47,238 \$69,028	\$106,183 \$118,685	\$126,158 \$123,882	\$94,174 \$252,045	\$147,261 \$221,364	\$190,296 \$248,125
(39)	238330	Tile and Terrazzo Contractors	ψ10,000	φι0, ι07	\$6,250	φ30,100	Ψ21,170	<i>4</i> 55, 107	\$64,333	\$31,250	\$36,786	φ110,000	\$145,158	\$61,111	\$227,778	\$163,580
(40)	238350	Finish Carpentry Contractors	\$7,500	\$8,333	\$20,000	\$33,500	\$41,500	\$41,893	\$47,333	\$52,031	\$90,372	\$116,071	\$123,365	\$360,000	\$196,444	\$345,863
(41)	238390	Other Building Finishing Contractors	\$6,457		\$18,500	\$35,000	\$41,000	\$34,413	\$48,333	\$51,694	\$51,588	\$85,867	\$130,643	\$153,679	\$200,298	\$243,180
(42)	2389	Other Specialty Trade Contractors	\$6,830	\$14,375	\$21,222	\$25,738	\$35,152	\$42,882	\$59,855	\$66,950	\$91,340	\$110,777	\$122,284	\$165,642	\$150,102	\$179,798
(43) (44)	238910 238990	Site Preparation Contractors All Other Specialty Trade Contractors	\$6,552 \$7,138	\$13,167 \$14,536	\$20,500 \$21,403	\$26,458 \$25,498	\$27,778 \$38,840	\$50,387 \$41,492	\$50,885 \$62,563	\$74,550 \$64,276	\$93,070 \$90,789	\$119,139 \$107,560	\$146,877 \$114,889	\$166,199 \$165,442	\$138,595 \$154,058	\$199,543 \$174,569
(45)	230990	All Construction Firms	\$5,957	\$13,618	\$20,071	\$22,833	\$31,157	\$38,607	\$51,764	\$68,622	\$82,838	\$107,300	\$125,716	\$156,397	\$162,744	\$205,719
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Appendix Table E.14 Construction Firms, Nationwide, by Average Firm Revenue, Average Revenue per Employee, Federal Procurement Data System 2009

	(a)	(b)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)
r-			<u> </u>	AF 000 000			oyee by Average		A050 000 000	
	NAICS Code	Industry Sector	\$2,000,000- \$5,000,000	\$5,000,000- \$10,000,000	\$10,000,000- \$25,000,000	\$25,000,000- \$50,000,000	\$50,000,000- \$100,000,000	\$100,000,000- \$250,000,000	\$250,000,000- \$500.000.000	> \$500,000,000
) 2	236	Construction of Buildings	\$317,206	\$382,655	\$427,010	\$473,256	\$555,179	\$673,022	\$812,469	\$813,026
)		Residential Building Construction	\$405,036	\$461,953	\$529,633	\$247,867	\$300,589	\$467,720	\$1,283,579	\$1,053,196
		New Single-Family Housing Construction (except								
)		Operative Builders)	\$635,417	\$321,641		\$106,667	\$257,806	\$654,928	\$1,050,369	
)	236116	New Multifamily Housing Construction (except	\$504,167	\$405,083	\$578,758		\$240,000	\$259,301		\$850,515
		Operative Builders)		\$+05 ,005	\$570,750		ψ240,000	ψ209,001		ψ000,010
)		New Housing Operative Builders	\$233,333			0070 407	* ****		\$1,750,000	64 400 757
)		Residential Remodelers	\$333,390 \$313,630	\$510,560 \$379,829	\$505,070 \$425,077	\$276,107 \$480,727	\$363,569 \$572,151	\$114,514 \$684,821	\$789,300	\$1,120,757 \$805,402
) i)		Nonresidential Building Construction Industrial Building Construction	\$263,654	\$360,621	\$379,360	\$480,727 \$482,273	\$701,627	\$831,754	\$789,300 \$593,484	\$964,432
		-								
)	236220	Commercial and Institutional Building Construction	\$319,344	\$382,735	\$431,765	\$480,535	\$557,000	\$675,862	\$806,783	\$794,620
		Heavy and Civil Engineering Construction	\$273,353	\$289,252	\$327,001	\$382,372	\$381,149	\$384,616	\$469,003	\$554,252
1)		Utility System Construction	\$245,684	\$245,370	\$306,374	\$387,330	\$430,281	\$382,215	\$463,408	\$457,842
2)		Water and Sewer Line and Related Structures	\$225,559	\$244,758	\$264,973	\$378,836	\$331,206	\$290,883	\$244,746	\$306,216
		Construction Oil and Gas Pipeline and Related Structures								
3)		Construction	\$381,599	\$317,120	\$266,721	\$207,908	\$458,983	\$173,016	\$880,018	\$401,021
		Power and Communication Line and Related	£0.4.4.000	\$004 044	£400.400	£440.040	\$505 400	© 544.404	£440.000	¢407.054
4)	237130	Structures Construction	\$244,282	\$231,841	\$400,190	\$448,012	\$535,426	\$514,431	\$419,099	\$497,851
5)		Land Subdivision			\$185,839					\$1,316,667
5)		Land Subdivision			\$185,839					\$1,316,667
7)		Highway, Street, and Bridge Construction	\$260,069	\$294,537	\$320,997	\$376,328	\$291,494	\$356,128	\$300,517	\$521,205
3)		Highway, Street, and Bridge Construction	\$260,069	\$294,537	\$320,997	\$376,328	\$291,494	\$356,128	\$300,517	\$521,205
9)		Other Heavy and Civil Engineering Construction	\$306,961	\$310,119	\$340,635	\$385,112	\$405,121	\$403,697	\$629,614	\$657,978
D)	237990	Other Heavy and Civil Engineering Construction	\$306,961	\$310,119	\$340,635	\$385,112	\$405,121	\$403,697	\$629,614	\$657,978
1) 2	238	Specialty Trade Contractors	\$234,515	\$260,885	\$315,989	\$337,862	\$361,352	\$369,339	\$375,104	\$483,683
2)		Foundation, Structure, and Building Exterior Contractors	\$247,536	\$260,333	\$291,883	\$286,939	\$293,995	\$365,720	\$390,429	\$602,090
3)		Poured Concrete Foundation and Structure Contractors	\$349,515	\$239,662	\$536,720	\$378,937	\$142,996		\$48,369	\$230,357
4)	238120	Structural Steel and Precast Concrete Contractors	\$231,686	\$251,680	\$304,951	\$288,314			\$554,987	\$149,574
5)	238130	Framing Contractors	\$304,992	\$281,811	\$286,716	\$108,197				\$188,889
5)	238140	Masonry Contractors	\$234,005	\$255,150	\$143,332	\$78,028		\$138,333		
7)	238150	Glass and Glazing Contractors	\$185,593	\$255,573	\$229,389	\$310,000	\$357,143	\$403,531	\$200,000	
3)		Roofing Contractors	\$239,515	\$240,977	\$249,614	\$205,755	\$313,030	\$429,215	\$148,058	\$762,084
)		Siding Contractors	\$180,524	\$66,226	\$141,315			, .	• • • • • • •	• • • • •
D)	238190	Other Foundation, Structure, and Building Exterior	\$251,869	\$338,018	\$321,528	\$398,950	\$333,526	\$361,376	\$734,486	\$717,692
		Contractors								
1)		Building Equipment Contractors Electrical Contractors and Other Wiring Installation	\$210,311	\$234,837	\$276,182	\$319,379	\$331,488	\$382,706	\$397,422	\$478,042
2)	238210	Contractors	\$194,966	\$235,615	\$257,449	\$319,319	\$346,548	\$404,304	\$418,067	\$472,603
3)		Plumbing, Heating, and Air-Conditioning Contractors	\$215,603	\$236,461	\$282,987	\$324,595	\$347,839	\$377,501	\$385,475	\$493,773
4)	238290	Other Building Equipment Contractors	\$242,357	\$225,853	\$333,258	\$294,180	\$127,964	\$259,783	\$158,277	\$465,910
5)	2383	Building Finishing Contractors	\$315,402	\$308,237	\$430,120	\$452,381	\$780,386	\$284,535	\$257,343	\$334,016
5)	238310	Drywall and Insulation Contractors	\$280,595	\$334,101	\$270,813	\$234,643	\$2,753,103	\$508,108	\$455,406	\$402,075
7)		Painting and Wall Covering Contractors	\$231,547	\$355,637	\$227,350	\$849,671	\$354,984	\$52,231		\$237,209
3)		Flooring Contractors	\$360,936	\$339,232	\$686,281	\$349,878	\$827,327	\$244,444	\$305,882	\$147,056
3)		Tile and Terrazzo Contractors	\$369,001	\$329,227	\$253,765	\$269,930		-		\$284,553
)		Finish Carpentry Contractors	\$321,171	\$201,125	\$356,717	\$291,667		\$357,286		\$538,910
1)		Other Building Finishing Contractors	\$335,569	\$268,964	\$431,167	\$452,940	\$476,438	\$326,210	\$134,042	\$362,488
2)		Other Specialty Trade Contractors	\$238,384	\$300,542	\$371,807	\$342,542	\$356,169	\$371,498	\$323,598	\$566,111
3)		Site Preparation Contractors	\$282,590	\$374,425	\$391,930	\$349,511	\$396,855	\$227,503	\$313,279	\$947,195
4)		All Other Specialty Trade Contractors	\$222,421	\$287,818	\$368,772	\$341,604	\$343,149	\$400,297	\$335,980	\$489,894
5)	230330	All Construction Firms	\$261,302	\$298,210	\$356,650	\$391,694	\$427,171	\$478,335	\$565,222	\$600,472

Appendix Table E.15 Construction Employees, Nationwide, by Number of Employees, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
		ha daa taa Oo ataa	TALE				Counts by N			•
	NAICS Code	Industry Sector	Total Em N	ployees %	<u>1-4</u> N	%	<u>5-9</u> N	%	<u>10-1</u> N	9 %
(1)	236	Construction of Buildings	2,295,028	100.0%	1,572	0.1%	3,473	0.2%	8,499	0.4%
(1)	2361	Residential Building Construction	2,295,028	100.0%	1,572	0.1%	3,473 118	0.2%	386	1.6%
(2)		New Single-Family Housing Construction (except								
(3)	236115	Operative Builders)	8,359	100.0%	26	0.3%	20	0.2%	73	0.9%
		New Multifamily Housing Construction (except								
(4)	236116	Operative Builders)	2,249	100.0%	10	0.4%	5	0.2%	36	1.6%
(5)	236117	New Housing Operative Builders	215	100.0%		0.0%		0.0%	15	7.0%
(6)	236118	Residential Remodelers	13,258	100.0%	120	0.9%	93	0.7%	262	2.0%
(7)	2362	Nonresidential Building Construction	2,270,946	100.0%	1,415	0.1%	3,355	0.1%	8,113	0.4%
(8)	236210	Industrial Building Construction	82,382	100.0%	159	0.2%	341	0.4%	958	1.2%
(9)	236220	Commercial and Institutional Building Construction	2,188,564	100.0%	1,256	0.1%	3,014	0.1%	7,155	0.3%
(10)	237	Heavy and Civil Engineering Construction	2,541,989	100.0%	1,576	0.1%	2,948	0.1%	6,615	0.3%
(11)	2371	Utility System Construction	1,342,863	100.0%	447	0.0%	882	0.1%	2,254	0.2%
		Water and Sewer Line and Related Structures								
(12)	237110	Construction	372,717	100.0%	334	0.1%	624	0.2%	1,279	0.3%
	007400	Oil and Gas Pipeline and Related Structures	= / 000	100.00/		.		o 494	100	0.00/
(13)	237120	Construction	54,896	100.0%	37	0.1%	59	0.1%	189	0.3%
(14)	237130	Power and Communication Line and Related	915,250	100.0%	76	0.0%	199	0.0%	785	0.1%
(14)		Structures Construction			70		199		700	
(15)	2372	Land Subdivision	51,696	100.0%	1	0.0%		0.0%		0.0%
(16)	237210	Land Subdivision	51,696	100.0%	1	0.0%		0.0%		0.0%
(17)	2373	Highway, Street, and Bridge Construction	691,770	100.0%	534	0.1%	1,058	0.2%	2,078	0.3%
(18)	237310	Highway, Street, and Bridge Construction	691,770	100.0%	534	0.1%	1,058	0.2%	2,078	0.3%
(19)	2379	Other Heavy and Civil Engineering Construction	455,660	100.0%	594	0.1%	1,007	0.2%	2,283	0.5%
(20)	237990	Other Heavy and Civil Engineering Construction	455,660	100.0%	594	0.1%	1,007	0.2%	2,283	0.5%
(21)	238	Specialty Trade Contractors	7,659,140	100.0%	4,797	0.1%	9,323	0.1%	19,253	0.3%
(22)	2381	Foundation, Structure, and Building Exterior Contractors	188,709	100.0%	670	0.4%	1,212	0.6%	2,632	1.4%
(23)	238110	Poured Concrete Foundation and Structure Contractors	18,470	100.0%	112	0.6%	123	0.7%	454	2.5%
(24)	238120	Structural Steel and Precast Concrete Contractors	9,278	100.0%	38	0.4%	114	1.2%	237	2.6%
(25)	238130	Framing Contractors	19,157	100.0%	38	0.2%	46	0.2%	66	0.3%
(26)	238140	Masonry Contractors	3,463	100.0%	52	1.5%	91	2.6%	138	4.0%
(27)	238150	Glass and Glazing Contractors	8,642	100.0%	71	0.8%	142	1.6%	407	4.7%
(28)	238160	Roofing Contractors	95,422	100.0%	212	0.2%	474	0.5%	838	0.9%
(29)	238170	Siding Contractors Other Foundation, Structure, and Building Exterior	383	100.0%	26	6.8%	33	8.6%	24	6.3%
(30)	238190	Contractors	33,893	100.0%	121	0.4%	188	0.6%	469	1.4%
(31)	2382	Building Equipment Contractors	5,055,852	100.0%	1,898	0.0%	4,481	0.1%	9,484	0.2%
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	3,447,927	100.0%	975	0.0%	2,142	0.1%	4,328	0.1%
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	1,080,118	100.0%	720	0.1%	1,854	0.2%	4,029	0.4%
(34)	238290	Other Building Equipment Contractors	527,807	100.0%	203	0.0%	485	0.1%	1,127	0.2%
(35)	2383	Building Finishing Contractors	890,221	100.0%	979	0.1%	1,427	0.2%	2,802	0.3%
(36)	238310	Drywall and Insulation Contractors	160,043	100.0%	75	0.0%	92	0.1%	168	0.1%
(37)	238320	Painting and Wall Covering Contractors	91,040	100.0%	270	0.3%	401	0.4%	658	0.7%
(38)	238330	Flooring Contractors	143,531	100.0%	317	0.2%	480	0.3%	935	0.7%
(39)	238340	Tile and Terrazzo Contractors	13,036	100.0%	32	0.2%	46	0.4%	61	0.5%
(40)	238350	Finish Carpentry Contractors	9,734	100.0%	126	1.3%	125	1.3%	251	2.6%
(41)	238390	Other Building Finishing Contractors	472,837	100.0%	159	0.0%	283	0.1%	729	0.2%
(42)	2389	Other Specialty Trade Contractors	1,524,358	100.0%	1,251	0.1%	2,203	0.1%	4,335	0.3%
(43)	238910	Site Preparation Contractors	729,202	100.0%	332	0.0%	450	0.1%	921	0.1%
(44)	238990	All Other Specialty Trade Contractors	795,156	100.0%	919	0.1%	1,753	0.2%	3,414	0.4%
(45)	23	All Construction Firms	12,496,156	100.0%	7,944	0.1%	15,743	0.1%	34,367	0.3%

Appendix Table E.15 Construction Employees, Nationwide, by Number of Employees, Federal Procurement Data System 2009

N										
N.		hadrastina Osastan	TAGE				Counts by N			10
	IAICS Code	Industry Sector	Total Em		20-4 N	49 %	50-9 N	99 %	<u>100-2</u> N	249 %
(1) 22	26	Construction of Buildings	N 2,295,028	% 100.0%	N 22,876		24,301	<u>%</u> 1.1%	39,739	
(1) 23 (2) 2	2361	Construction of Buildings		100.0%	22,876	1.0% 2.8%	24,301	4.4%	39,739 735	1.7% 3.1%
(2) 2	2301	Residential Building Construction New Single-Family Housing Construction (except	24,082	100.0%	000	2.0%	1,063	4.4%	735	3.1%
(3)	236115	Operative Builders)	8,359	100.0%	85	1.0%	50	0.6%	410	4.9%
		New Multifamily Housing Construction (except								
(4)	236116	Operative Builders)	2,249	100.0%	125	5.6%	160	7.1%		0.0%
(5)	236117	New Housing Operative Builders	215	100.0%		0.0%		0.0%	200	93.0%
(6)	236118	Residential Remodelers	13,258	100.0%	456	3.4%	853	6.4%	125	0.9%
	2362	Nonresidential Building Construction	2,270,946	100.0%	22,210	1.0%	23,238	1.0%	39,004	1.7%
(8)	236210	Industrial Building Construction	82,382	100.0%	2,904	3.5%	2,818	3.4%	4,320	5.2%
		-								
(9)	236220	Commercial and Institutional Building Construction	2,188,564	100.0%	19,306	0.9%	20,420	0.9%	34,685	1.6%
(10) 23	37	Heavy and Civil Engineering Construction	2,541,989	100.0%	17,782	0.7%	20,548	0.8%	29,863	1.2%
(11)	2371	Utility System Construction	1,342,863	100.0%	4,498	0.3%	4,503	0.3%	6,772	0.5%
(12)	237110	Water and Sewer Line and Related Structures	372,717	100.0%	0 5 2 1	0.7%	2,175	0.6%	3,159	0.8%
(12)	237110	Construction	372,717	100.0%	2,531	0.7%	2,175	0.0%	3,159	0.0%
(13)	237120	Oil and Gas Pipeline and Related Structures	54,896	100.0%	366	0.7%	452	0.8%	1,091	2.0%
(13)	237120	Construction	54,690	100.0 %	300	0.7 %	452	0.0%	1,091	2.0 %
(14)	237130	Power and Communication Line and Related	915,250	100.0%	1,601	0.2%	1,876	0.2%	2,522	0.3%
		Structures Construction								
(15)	2372	Land Subdivision	51,696	100.0%	20	0.0%	65	0.1%	110	0.2%
(16)	237210	Land Subdivision	51,696	100.0%	20	0.0%	65	0.1%	110	0.2%
	2373	Highway, Street, and Bridge Construction	691,770	100.0%	5,987	0.9%	7,028	1.0%	9,435	1.4%
(18)	237310	Highway, Street, and Bridge Construction	691,770	100.0%	5,987	0.9%	7,028	1.0%	9,435	1.4%
	2379	Other Heavy and Civil Engineering Construction	455,660	100.0%	7,277	1.6%	8,952	2.0%	13,546	3.0%
(20)	237990	Other Heavy and Civil Engineering Construction	455,660	100.0%	7,277	1.6%	8,952	2.0%	13,546	3.0%
(21) 23	38	Specialty Trade Contractors	7,659,140	100.0%	49,439	0.6%	47,854	0.6%	62,879	0.8%
(22)	2381	Foundation, Structure, and Building Exterior Contractors	188,709	100.0%	6,141	3.3%	6,246	3.3%	5,507	2.9%
(23)	238110	Poured Concrete Foundation and Structure	18,470	100.0%	803	4.3%	590	3.2%	220	1.2%
(23)	236110	Contractors	10,470	100.0 %	003	4.376	590	3.270	220	1.270
(24)	238120	Structural Steel and Precast Concrete Contractors	9,278	100.0%	551	5.9%	521	5.6%	693	7.5%
			,							
(25)	238130	Framing Contractors	19,157	100.0%	257	1.3%	110	0.6%	300	1.6%
(26)	238140	Masonry Contractors	3,463	100.0%	396	11.4%	384	11.1%	500	14.4%
(27)	238150	Glass and Glazing Contractors	8,642	100.0%	654	7.6%	618	7.2%	425	4.9%
(28)	238160	Roofing Contractors	95,422	100.0%	2,648	2.8%	2,711	2.8%	1,973	2.1%
(29)	238170	Siding Contractors	383	100.0%	105	27.4%	195	50.9%		0.0%
(30)	238190	Other Foundation, Structure, and Building Exterior Contractors	33,893	100.0%	727	2.1%	1,117	3.3%	1,396	4.1%
(31)	2382	Building Equipment Contractors	5,055,852	100.0%	26,941	0.5%	26,683	0.5%	38,253	0.8%
(32)	238210	Electrical Contractors and Other Wiring Installation	3,447,927	100.0%	11,708	0.3%	12,121	0.4%	16,827	0.5%
(32)	236210	Contractors	3,447,927	100.0 %	11,706	0.3%	12,121	0.4 %	10,027	0.5%
(33)	238220	Plumbing, Heating, and Air-Conditioning	1,080,118	100.0%	12,255	1.1%	11,712	1.1%	18,026	1.7%
(34)	238290	Contractors Other Ruilding Equipment Contractors	527,807	100.0%	2,978	0.6%	2,851	0.5%	3,401	0.6%
	2383	Other Building Equipment Contractors Building Finishing Contractors	890,221	100.0%	2,978 5,719	0.6%	2,651 5,482	0.5%	5,401 5,187	0.6%
(36)	238310	Drywall and Insulation Contractors	160,043	100.0%	432	0.0%	491	0.0%	900	0.6%
(37)	238310	Painting and Wall Covering Contractors	91,040	100.0%	1,463	1.6%	1,322	1.5%	1,549	1.7%
(38)	238320	Flooring Contractors	143,531	100.0%	1,403	1.1%	1,522	1.1%	736	0.5%
(39)	238340	Tile and Terrazzo Contractors	13,036	100.0%	118	0.9%	170	1.3%	309	2.4%
(40)	238350	Finish Carpentry Contractors	9,734	100.0%	755	7.8%	485	5.0%	350	3.6%
(41)	238390	Other Building Finishing Contractors	472,837	100.0%	1,344	0.3%	1,505	0.3%	1,343	0.3%
· · /	2389	Other Specialty Trade Contractors	1,524,358	100.0%	10,639	0.7%	9,443	0.6%	13,932	0.9%
(43)	238910	Site Preparation Contractors	729,202	100.0%	2,374	0.3%	1,304	0.2%	1,915	0.3%
(44)	238990	All Other Specialty Trade Contractors	795,156	100.0%	8,265	1.0%	8,139	1.0%	12,017	1.5%
(45)	23	All Construction Firms	12,496,156	100.0%	90,097	0.7%	92,702	0.7%	132,481	1.1%

Appendix Table E.15 Construction Employees, Nationwide, by Number of Employees, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(q)	(r)	(s)	(t)	(u)	(v)
	NAICS Code	Inductory Constan	Total Em		250-4		e Counts by 500-		mpioyees 1,000	-
	NAICS Code	Industry Sector	Total Em N	pioyees %	250-4 N	499 %	<u> </u>	999 %	1,000	+ %
(1)	236	Construction of Buildings	2,295,028	100.0%	39,674	1.7%	42,142	1.8%	2,112,753	92.1%
(1)	2361	Residential Building Construction	2,295,020	100.0%	2,042	8.5%	5,039	20.9%	13,876	57.6%
		New Single-Family Housing Construction (except			,				,	
(3)	236115	Operative Builders)	8,359	100.0%	750	9.0%	1,200	14.4%	5,745	68.7%
(4)	236116	New Multifamily Housing Construction (except Operative Builders)	2,249	100.0%	250	11.1%	1,663	73.9%		0.0%
(5)	236117	New Housing Operative Builders	215	100.0%		0.0%		0.0%		0.0%
(6)	236118	Residential Remodelers	13,258	100.0%	1,042	7.9%	2,176	16.4%	8,131	61.3%
(7)	2362	Nonresidential Building Construction	2,270,946	100.0%	37,632	1.7%	37,103	1.6%	2,098,877	92.4%
(8)	236210	Industrial Building Construction	82,382	100.0%	3,560	4.3%	1,597	1.9%	65,726	79.8%
(9)	236220	Commercial and Institutional Building Construction	2,188,564	100.0%	34,072	1.6%	35,506	1.6%	2,033,151	92.9%
(10)	237	Heavy and Civil Engineering Construction	2,541,989	100.0%	31,978	1.3%	42,267	1.7%	2,388,413	94.0%
(11)	2371	Utility System Construction	1,342,863	100.0%	7,290	0.5%	10,965	0.8%	1,305,254	97.2%
(12)	237110	Water and Sewer Line and Related Structures Construction	372,717	100.0%	3,954	1.1%	2,802	0.8%	355,859	95.5%
(13)	237120	Oil and Gas Pipeline and Related Structures Construction	54,896	100.0%	731	1.3%	1,300	2.4%	50,672	92.3%
(14)	237130	Power and Communication Line and Related Structures Construction	915,250	100.0%	2,605	0.3%	6,863	0.7%	898,723	98.2%
(15)	2372	Land Subdivision	51,696	100.0%		0.0%		0.0%	51,500	99.6%
(15)	2372	Land Subdivision	51,696	100.0%		0.0%		0.0%	51,500	99.6%
(10)	237210	Highway, Street, and Bridge Construction	691,770	100.0%	10,535	1.5%	10,798	1.6%	644,316	99.0 <i>%</i> 93.1%
(17)	2373	Highway, Street, and Bridge Construction	691,770	100.0%	10,535	1.5%	10,798	1.6%	644,316	93.1 <i>%</i> 93.1%
(10)	237310	Other Heavy and Civil Engineering Construction	455,660	100.0%	10,555	3.1%	20,504	4.5%	387,343	93.1% 85.0%
	2379		,		,			4.5% 4.5%	,	85.0%
(20) (21)	237990	Other Heavy and Civil Engineering Construction	455,660	100.0%	14,153	3.1% 0.7%	20,504		387,343	
(21)	230	Specialty Trade Contractors	7,659,140	100.0%	55,954	0.7%	65,591	0.9%	7,344,049	95.9%
(22)	2381	Foundation, Structure, and Building Exterior Contractors	188,709	100.0%	6,495	3.4%	4,397	2.3%	155,409	82.4%
(23)	238110	Poured Concrete Foundation and Structure Contractors	18,470	100.0%	600	3.2%	1,206	6.5%	14,363	77.8%
(24)	238120	Structural Steel and Precast Concrete Contractors	9,278	100.0%	530	5.7%	1,300	14.0%	5,294	57.1%
(25)	238130	Framing Contractors	19,157	100.0%	340	1.8%		0.0%	18,000	94.0%
(26)	238140	Masonry Contractors	3,463	100.0%	702	20.3%		0.0%	1,200	34.7%
(27)	238150	Glass and Glazing Contractors	8,642	100.0%	725	8.4%		0.0%	5,600	64.8%
(28)	238160	Roofing Contractors	95,422	100.0%	2,318	2.4%		0.0%	84,248	88.3%
(29)	238170	Siding Contractors	383	100.0%		0.0%		0.0%		0.0%
(30)	238190	Other Foundation, Structure, and Building Exterior Contractors	33,893	100.0%	1,280	3.8%	1,891	5.6%	26,704	78.8%
(31)	2382	Building Equipment Contractors	5,055,852	100.0%	34,072	0.7%	39,631	0.8%	4,874,410	96.4%
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	3,447,927	100.0%	16,748	0.5%	14,854	0.4%	3,368,225	97.7%
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	1,080,118	100.0%	14,327	1.3%	18,898	1.7%	998,297	92.4%
(34)	238290	Other Building Equipment Contractors	527,807	100.0%	2,997	0.6%	5,879	1.1%	507,887	96.2%
(35)	2383	Building Finishing Contractors	890,221	100.0%	4,343	0.5%	3,163	0.4%	861,120	96.7%
(36)	238310	Drywall and Insulation Contractors	160,043	100.0%	1,125	0.7%	800	0.5%	155,960	97.4%
(37)	238320	Painting and Wall Covering Contractors	91,040	100.0%		0.0%		0.0%	85,378	93.8%
(38)	238330	Flooring Contractors	143,531	100.0%	450	0.3%	1,733	1.2%	135,763	94.6%
(39)	238340	Tile and Terrazzo Contractors	13,036	100.0%		0.0%		0.0%	12,300	94.4%
(40)	238350	Finish Carpentry Contractors	9,734	100.0%		0.0%	630	6.5%	7,012	72.0%
(41)	238390	Other Building Finishing Contractors	472,837	100.0%	2,768	0.6%		0.0%	464,707	98.3%
(42)	2389	Other Specialty Trade Contractors	1,524,358	100.0%	11,045	0.7%	18,400	1.2%	1,453,111	95.3%
(43)	238910	Site Preparation Contractors	729,202	100.0%	1,763	0.2%	4,082	0.6%	716,061	98.2%
(44)	238990	All Other Specialty Trade Contractors	795,156	100.0%	9,282	1.2%	14,318	1.8%	737,050	92.7%
(45)	23	All Construction Firms	12,496,156	100.0%	127,606	1.0%	150,001	1.2%	11,845,214	94.8%

Appendix Table E.16 Construction Employees, Nationwide, by Number of Employees, Cumulative Percentage, Federal Procurement Data System 2009

(a) NAICS 236 (2) 2361 (3) 236 (4) 236 (5) 2362 (6) 2362 (7) 2362 (8) 2362 (9) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2377 (14) 2377 (14) 2377 (14) 2377 (15) 2372 (16) 2372 (16) 2372 (17) 2373 (18) 2377 (19) 2379 (20) 2373 (18) 2372 (21) 238 (22) 2381 (23) 2381 (23) 2381 (23) 2382 (24) 2383 (24) 238 (25) 2383 (26) 238 (27) 238 (28) 238 (29) 238 (29) 238 (21) 238 (22) 238 (22) 238 (23) 238 (23) 238 (24) 238 (25) 238 (26) 238 (27) 238 (28) 238 (27) 238 (28) 238 (29) 238	Code Industry Sector Construction of Buildings Residential Building Construction New Single-Family Housing Construction (except Operative Builders) 115 New Multifamily Housing Construction (except Operative Builders) New Multifamily Housing Construction (except 116 New Housing Operative Builders 117 New Housing Operative Builders 118 Residential Remodelers Nonresidential Building Construction Norresidential Building Construction 210 Industrial Building Construction 220 Commercial and Institutional Building Construction 220 Commercial and Institutional Building Construction 210 Industrial Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Land Subdivision 210 Land Subdivision 2111 Land Subdivision	(c) 1-4 0.1% 0.6% 0.3% 0.4% 0.0% 0.9% 0.1% 0.1% 0.1% 0.1% 0.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1%	(d) 5-9 0.2% 1.1% 0.6% 0.7% 0.0% 1.6% 0.2% 0.2% 0.2% 0.2% 0.1% 0.3% 0.2% 0.3% 0.2% 0.0% 0.2%	(e) Cumulat 10-19 0.6% 2.7% 1.4% 2.3% 7.0% 3.6% 0.6% 1.8% 0.5% 0.4% 0.5% 0.5% 0.5% 0.5% 0.1%	(f) ive % of Emp 20-49 1.6% 5.5% 2.4% 7.8% 7.8% 7.0% 7.0% 1.5% 5.3% 1.4% 1.5% 5.3% 1.4% 1.4% 1.1% 0.6% 1.3% 1.2%	(g) bloyees by N 50-99 2.6% 9.9% 3.0% 14.9% 7.0% 13.5% 2.6% 8.7% 2.3% 1.9% 0.9% 1.9% 2.0%	(h) umber of Err 100-249 4.4% 13.0% 7.9% 14.9% 100.0% 14.4% 4.3% 14.0% 3.9% 3.1% 1.4% 2.7% 4.0%	(i) 250-499 250-499 6.1% 21.5% 16.9% 26.1% 100.0% 22.3% 5.9% 18.3% 5.5% 4.4% 2.0% 3.8%	(j) 500-999 42.4% 31.3% 100.0% 100.0% 38.7% 7.6% 20.2% 7.1% 6.0% 2.8% 4.5%	(k) 1,000 + 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
(1) 236 (2) 2361 (3) 2363 (4) 2363 (5) 2364 (5) 2365 (6) 2366 (7) 2362 (8) 2363 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2377 (14) 2372 (15) 2372 (16) 2373 (17) 2373 (18) 2379 (20) 2379 (20) 2379 (21) 238 (22) 2381 (23) 238 (24) 238 (25) 238 (26) 238' (27) 238' (28) 238' (28) 238'	Construction of Buildings Residential Building Construction New Single-Family Housing Construction (except Operative Builders) New Multifamily Housing Construction (except Operative Builders) New Housing Operative Builders Residential Remodelers Nonresidential Building Construction Industrial Building Construction Commercial and Institutional Building Construction Heavy and Civil Engineering Construction Utility System Construction Utility System Construction Oil and Gas Pipeline and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Had Subdivision Land Subdivision Highway, Street, and Bridge Construction	0.1% 0.6% 0.3% 0.4% 0.9% 0.1% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1%	0.2% 1.1% 0.6% 0.7% 0.0% 1.6% 0.2% 0.2% 0.2% 0.1% 0.3% 0.2% 0.2% 0.0%	0.6% 2.7% 1.4% 2.3% 7.0% 3.6% 0.6% 1.8% 0.5% 0.4% 0.3% 0.6% 0.5%	1.6% 5.5% 2.4% 7.8% 7.0% 7.0% 1.5% 5.3% 1.4% 1.1% 0.6% 1.3%	2.6% 9.9% 3.0% 14.9% 7.0% 13.5% 2.6% 8.7% 2.3% 1.9% 0.9% 1.9%	4.4% 13.0% 7.9% 14.9% 100.0% 14.4% 4.3% 14.0% 3.9% 3.1% 1.4% 2.7%	6.1% 21.5% 16.9% 26.1% 100.0% 22.3% 5.9% 18.3% 5.5% 4.4% 2.0%	7.9% 42.4% 31.3% 100.0% 38.7% 7.6% 20.2% 7.1% 6.0% 2.8%	100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
(2) 2361 (3) 2362 (4) 2363 (5) 2362 (6) 2362 (7) 2362 (8) 2363 (9) 2362 (10) 237 (11) 2371 (12) 2373 (13) 2372 (14) 2373 (15) 2372 (17) 2373 (18) 2373 (20) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2382 (24) 238: (25) 238: (26) 238: (27) 238: (28) 238: (28) 238:	Residential Building Construction New Single-Family Housing Construction (except Operative Builders) New Multifamily Housing Construction (except Operative Builders) New Multifamily Housing Construction (except Operative Builders) New Housing Operative Builders Residential Remodelers Nonresidential Building Construction Industrial Building Construction Commercial and Institutional Building Construction Heavy and Civil Engineering Construction Utility System Construction Water and Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Power and Communication Line and Related Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction Highway, Street, and Bridge Construction	0.6% 0.3% 0.4% 0.9% 0.1% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1%	1.1% 0.6% 0.7% 0.0% 1.6% 0.2% 0.2% 0.2% 0.2% 0.3% 0.3% 0.2% 0.0%	2.7% 1.4% 2.3% 7.0% 3.6% 0.6% 1.8% 0.5% 0.4% 0.3% 0.6% 0.5%	5.5% 2.4% 7.8% 7.0% 1.5% 5.3% 1.4% 1.1% 0.6% 1.3%	9.9% 3.0% 14.9% 7.0% 13.5% 2.6% 8.7% 2.3% 1.9% 0.9% 1.9%	13.0% 7.9% 14.9% 100.0% 14.4% 4.3% 14.0% 3.9% 3.1% 1.4% 2.7%	21.5% 16.9% 26.1% 100.0% 22.3% 5.9% 18.3% 5.5% 4.4% 2.0%	42.4% 31.3% 100.0% 38.7% 7.6% 20.2% 7.1% 6.0% 2.8%	100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
(3) 236 (4) 236 (5) 2362 (6) 2362 (7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 237 (14) 2372 (15) 2372 (16) 2372 (17) 2373 (18) 2372 (20) 2373 (21) 238 (22) 2381 (23) 238: (24) 238: (25) 238: (26) 238: (27) 238: (28) 238:	New Single-Family Housing Construction (except Operative Builders) New Multifamily Housing Construction (except Operative Builders) New Housing Operative Builders Residential Remodelers Nonresidential Building Construction Industrial Building Construction Commercial and Institutional Building Construction Utility System Construction Water and Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Bower and Communication Line and Related Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction	0.3% 0.4% 0.9% 0.1% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1%	0.6% 0.7% 0.0% 1.6% 0.2% 0.2% 0.2% 0.2% 0.3% 0.2% 0.2% 0.2% 0.0%	1.4% 2.3% 7.0% 3.6% 0.6% 1.8% 0.5% 0.4% 0.3% 0.6% 0.5%	2.4% 7.8% 7.0% 1.5% 5.3% 1.4% 1.1% 0.6% 1.3%	3.0% 14.9% 7.0% 13.5% 2.6% 8.7% 2.3% 1.9% 0.9% 1.9%	7.9% 14.9% 100.0% 14.4% 4.3% 14.0% 3.9% 3.1% 1.4% 2.7%	16.9% 26.1% 100.0% 22.3% 5.9% 18.3% 5.5% 4.4% 2.0%	31.3% 100.0% 38.7% 7.6% 20.2% 7.1% 6.0% 2.8%	100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
(4) 236 (5) 2362 (6) 2362 (7) 2362 (8) 2363 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2377 (14) 2377 (15) 2372 (17) 2373 (18) 2379 (20) 2379 (21) 238 (22) 2381 (23) 238: (24) 238: (25) 238: (26) 238: (27) 238: (28) 238: (27) 238:	 Operative Builders) New Multifamily Housing Construction (except Operative Builders) New Housing Operative Builders Residential Remodelers Nonresidential Building Construction Industrial Building Construction Commercial and Institutional Building Construction Utility System Construction Water and Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction 	0.4% 0.0% 0.9% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	0.7% 0.0% 1.6% 0.2% 0.2% 0.2% 0.1% 0.3% 0.2% 0.2% 0.0%	2.3% 7.0% 3.6% 0.6% 1.8% 0.5% 0.4% 0.3% 0.6% 0.5%	7.8% 7.0% 1.5% 5.3% 1.4% 1.1% 0.6% 1.3%	14.9% 7.0% 13.5% 2.6% 8.7% 2.3% 1.9% 0.9% 1.9%	14.9% 100.0% 14.4% 4.3% 14.0% 3.9% 3.1% 1.4% 2.7%	26.1% 100.0% 22.3% 5.9% 18.3% 5.5% 4.4% 2.0%	100.0% 100.0% 38.7% 7.6% 20.2% 7.1% 6.0% 2.8%	100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
(4) 236 (5) 2362 (6) 2362 (7) 2362 (8) 2363 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2377 (14) 2377 (15) 2372 (17) 2373 (18) 2379 (20) 2379 (21) 238 (22) 2381 (23) 238: (24) 238: (25) 238: (26) 238: (27) 238: (28) 238: (27) 238:	Operative Builders) New Multifamily Housing Construction (except Operative Builders) New Housing Operative Builders Residential Remodelers Nonresidential Building Construction Industrial Building Construction Commercial and Institutional Building Construction Heavy and Civil Engineering Construction Utility System Construction Water and Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Power and Communication Line and Related Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction	0.4% 0.0% 0.9% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	0.7% 0.0% 1.6% 0.2% 0.2% 0.2% 0.1% 0.3% 0.2% 0.2% 0.0%	2.3% 7.0% 3.6% 0.6% 1.8% 0.5% 0.4% 0.3% 0.6% 0.5%	7.8% 7.0% 1.5% 5.3% 1.4% 1.1% 0.6% 1.3%	14.9% 7.0% 13.5% 2.6% 8.7% 2.3% 1.9% 0.9% 1.9%	14.9% 100.0% 14.4% 4.3% 14.0% 3.9% 3.1% 1.4% 2.7%	26.1% 100.0% 22.3% 5.9% 18.3% 5.5% 4.4% 2.0%	100.0% 100.0% 38.7% 7.6% 20.2% 7.1% 6.0% 2.8%	100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
(5) 2362 (6) 2362 (7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2372 (14) 2372 (15) 2372 (16) 2373 (18) 2379 (20) 2379 (20) 2378 (22) 2381 (23) 238* (24) 238* (25) 238* (26) 238* (27) 238* (28) 238*	 Operative Builders) New Housing Operative Builders Residential Remodelers Nonresidential Building Construction Industrial Building Construction Commercial and Institutional Building Construction Heavy and Civil Engineering Construction Utility System Construction Water and Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Power and Communication Line and Related Structures Construction Land Subdivision Highway, Street, and Bridge Construction 	0.0% 0.9% 0.1% 0.2% 0.1% 0.1% 0.1% 0.1% 0.0% 0.0% 0.0% 0.0	0.0% 1.6% 0.2% 0.2% 0.2% 0.1% 0.3% 0.2% 0.2% 0.0%	7.0% 3.6% 0.6% 1.8% 0.5% 0.4% 0.3% 0.6% 0.5%	7.0% 7.0% 1.5% 5.3% 1.4% 1.1% 0.6% 1.3%	7.0% 13.5% 2.6% 8.7% 2.3% 1.9% 0.9% 1.9%	100.0% 14.4% 4.3% 14.0% 3.9% 3.1% 1.4% 2.7%	100.0% 22.3% 5.9% 18.3% 5.5% 4.4% 2.0%	100.0% 38.7% 7.6% 20.2% 7.1% 6.0% 2.8%	100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
(6) 236 (7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 237 (13) 237 (14) 237 (15) 2372 (16) 2373 (17) 2373 (18) 2379 (20) 2379 (20) 238 (22) 2381 (23) 238 (24) 238 (25) 238 (26) 238 (27) 238 (28) 238	 117 New Housing Operative Builders 118 Residential Remodelers Nonresidential Building Construction 210 Industrial Building Construction 220 Commercial and Institutional Building Construction 220 Commercial and Institutional Building Construction 220 Utility System Construction 220 Utility System Construction 231 Water and Sewer Line and Related Structures 242 Construction 243 Oil and Gas Pipeline and Related Structures 244 Construction 245 Oil and Gas Pipeline and Related Structures 246 Construction 247 Diand Communication Line and Related 248 Structures Construction 249 Land Subdivision 240 Land Subdivision 240 Highway, Street, and Bridge Construction 	0.9% 0.1% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1%	1.6% 0.2% 0.2% 0.2% 0.1% 0.3% 0.2% 0.2% 0.0%	3.6% 0.6% 1.8% 0.5% 0.4% 0.3% 0.6% 0.5%	7.0% 1.5% 5.3% 1.4% 1.1% 0.6% 1.3%	13.5% 2.6% 8.7% 2.3% 1.9% 0.9% 1.9%	14.4% 4.3% 14.0% 3.9% 3.1% 1.4% 2.7%	22.3% 5.9% 18.3% 5.5% 4.4% 2.0%	38.7% 7.6% 20.2% 7.1% 6.0% 2.8%	100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
(6) 236 (7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 237 (13) 237 (14) 237 (15) 2372 (16) 2373 (17) 2373 (18) 2379 (20) 2379 (20) 238 (22) 2381 (23) 238 (24) 238 (25) 238 (26) 238 (27) 238 (28) 238	 Residential Remodelers Nonresidential Building Construction Industrial Building Construction Commercial and Institutional Building Construction Heavy and Civil Engineering Construction Utility System Construction Water and Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Power and Communication Line and Related Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction 	0.9% 0.1% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1%	1.6% 0.2% 0.2% 0.2% 0.1% 0.3% 0.2% 0.2% 0.0%	3.6% 0.6% 1.8% 0.5% 0.4% 0.3% 0.6% 0.5%	7.0% 1.5% 5.3% 1.4% 1.1% 0.6% 1.3%	13.5% 2.6% 8.7% 2.3% 1.9% 0.9% 1.9%	14.4% 4.3% 14.0% 3.9% 3.1% 1.4% 2.7%	22.3% 5.9% 18.3% 5.5% 4.4% 2.0%	38.7% 7.6% 20.2% 7.1% 6.0% 2.8%	100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
(7) 2362 (8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 237 (14) 237 (15) 2372 (16) 2373 (17) 2379 (20) 2379 (21) 238 (22) 2381 (23) 238 (24) 238 (25) 238 (26) 238 (27) 238 (28) 238	Nonresidential Building Construction210Industrial Building Construction220Commercial and Institutional Building Construction220Heavy and Civil Engineering Construction221Utility System Construction222Water and Sewer Line and Related Structures223Construction224Oil and Gas Pipeline and Related Structures225Construction226Power and Communication Line and Related237Structures Construction230Land Subdivision240Land Subdivision241Highway, Street, and Bridge Construction310Highway, Street, and Bridge Construction	0.1% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1% 0.0% 0.0% 0.0	0.2% 0.6% 0.2% 0.1% 0.3% 0.2% 0.2% 0.0%	0.6% 1.8% 0.5% 0.4% 0.3% 0.6% 0.5%	1.5% 5.3% 1.4% 1.1% 0.6% 1.3%	2.6% 8.7% 2.3% 1.9% 0.9% 1.9%	4.3% 14.0% 3.9% 3.1% 1.4% 2.7%	5.9% 18.3% 5.5% 4.4% 2.0%	7.6% 20.2% 7.1% 6.0% 2.8%	100.0% 100.0% 100.0% 100.0% 100.0%
(8) 2362 (9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2371 (14) 2377 (15) 2372 (16) 2373 (17) 2373 (18) 2379 (20) 2379 (20) 2378 (21) 238 (22) 2381 (23) 238: (24) 238: (25) 238: (26) 238: (27) 238: (28) 238:	 Industrial Building Construction Commercial and Institutional Building Construction Heavy and Civil Engineering Construction Utility System Construction Water and Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Power and Communication Line and Related Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction 	0.2% 0.1% 0.0% 0.1% 0.1% 0.0% 0.0% 0.0% 0.0	0.6% 0.2% 0.1% 0.3% 0.2% 0.0%	1.8% 0.5% 0.4% 0.3% 0.6% 0.5%	5.3% 1.4% 1.1% 0.6% 1.3%	8.7% 2.3% 1.9% 0.9% 1.9%	14.0% 3.9% 3.1% 1.4% 2.7%	18.3% 5.5% 4.4% 2.0%	20.2% 7.1% 6.0% 2.8%	100.0% 100.0% 100.0% 100.0%
(9) 2362 (10) 237 (11) 2371 (12) 2371 (13) 2372 (14) 2372 (15) 2372 (16) 2373 (17) 2373 (18) 2379 (20) 2378 (21) 238 (22) 2381 (23) 2383 (24) 238 (25) 238 (26) 238 (27) 238 (28) 238 (27) 238 (28) 238	 Commercial and Institutional Building Construction Heavy and Civil Engineering Construction Utility System Construction Water and Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Power and Communication Line and Related Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction Highway, Street, and Bridge Construction 	0.1% 0.1% 0.0% 0.1% 0.0% 0.0% 0.0% 0.0%	0.2% 0.2% 0.1% 0.3% 0.2% 0.0%	0.5% 0.4% 0.3% 0.6% 0.5%	1.4% 1.1% 0.6% 1.3%	2.3% 1.9% 0.9% 1.9%	3.9% 3.1% 1.4% 2.7%	5.5% 4.4% 2.0%	7.1% 6.0% 2.8%	100.0% 100.0% 100.0%
(10) 237 (11) 2371 (12) 2371 (13) 2371 (14) 2371 (14) 2372 (15) 2372 (16) 2373 (17) 2379 (20) 2379 (21) 238 (22) 2381 (23) 238: (24) 238: (25) 238: (26) 238: (27) 238: (28) 238:	 Heavy and Civil Engineering Construction Utility System Construction Water and Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Power and Communication Line and Related Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction 	0.1% 0.0% 0.1% 0.0% 0.0% 0.0% 0.0% 0.1%	0.2% 0.1% 0.3% 0.2% 0.0%	0.4% 0.3% 0.6% 0.5%	1.1% 0.6% 1.3%	1.9% 0.9% 1.9%	3.1% 1.4% 2.7%	4.4% 2.0%	6.0% 2.8%	100.0% 100.0%
(11) 2371 (12) 237' (13) 237' (14) 237' (15) 2372 (16) 237' (17) 2373 (18) 237' (19) 237' (20) 237' (21) 238 (22) 2381 (23) 238' (24) 238' (25) 238' (26) 238' (27) 238' (28) 238'	Utility System Construction Water and Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Power and Communication Line and Related Structures Construction Land Subdivision 210 Land Subdivision Highway, Street, and Bridge Construction 310 Highway, Street, and Bridge Construction	0.0% 0.1% 0.0% 0.0% 0.0% 0.1%	0.1% 0.3% 0.2% 0.0% 0.0%	0.3% 0.6% 0.5%	0.6% 1.3%	0.9% 1.9%	1.4% 2.7%	2.0%	2.8%	100.0%
(12) 237* (13) 237* (14) 237* (15) 2372 (16) 2373 (17) 2373 (18) 2379 (20) 2378 (21) 238 (22) 2381 (23) 238* (24) 238* (25) 238* (27) 238* (28) 238*	 Water and Sewer Line and Related Structures Construction Oil and Gas Pipeline and Related Structures Construction Power and Communication Line and Related Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction Highway, Street, and Bridge Construction 	0.1% 0.1% 0.0% 0.0% 0.0% 0.1%	0.3% 0.2% 0.0% 0.0%	0.6% 0.5%	1.3%	1.9%	2.7%			
(13) 237 (14) 237 (15) 2372 (16) 2373 (17) 2373 (18) 2372 (19) 2379 (20) 2373 (21) 238 (22) 2381 (23) 238 (24) 238 (25) 238 (26) 238 (27) 238 (28) 238	 Construction Oil and Gas Pipeline and Related Structures Construction Power and Communication Line and Related Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction 	0.1% 0.0% 0.0% 0.1%	0.2% 0.0% 0.0%	0.5%				3.8%	4.5%	100.0%
(14) 237' (15) 2372 (16) 2373 (17) 2373 (18) 237'9 (20) 237'9 (21) 238 (22) 2381 (23) 238' (24) 238' (25) 238' (26) 238' (27) 238' (28) 238'	Oil and Gas Pipeline and Related Structures Construction Power and Communication Line and Related Structures Construction Land Subdivision 210 Land Subdivision Highway, Street, and Bridge Construction Highway, Street, and Bridge Construction	0.0% 0.0% 0.0% 0.1%	0.0% 0.0%		1.2%	2.0%	1.0%			
(14) 237 (15) 2372 (16) 2373 (17) 2373 (18) 2373 (19) 2379 (20) 2379 (21) 238 (22) 2381 (23) 238* (24) 238* (25) 238* (26) 238* (27) 238* (28) 238*	 Construction Power and Communication Line and Related Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction Highway, Street, and Bridge Construction 	0.0% 0.0% 0.0% 0.1%	0.0% 0.0%		1.2%	2.0%	1 0%			
(15) 2372 (16) 2372 (17) 2373 (18) 2373 (19) 2379 (20) 2372 (21) 238 (22) 2381 (23) 238: (24) 238: (25) 238: (26) 238: (27) 238: (28) 238:	 Structures Construction Land Subdivision Land Subdivision Highway, Street, and Bridge Construction Highway, Street, and Bridge Construction 	0.0% 0.0% 0.1%	0.0%	0.1%			4.078	5.3%	7.7%	100.0%
(16) 2372 (17) 2373 (18) 2373 (19) 2379 (20) 2379 (21) 238 (22) 2381 (23) 238: (24) 238: (25) 238: (26) 238: (27) 238: (28) 238:	Land Subdivision 210 Land Subdivision Highway, Street, and Bridge Construction 310 Highway, Street, and Bridge Construction	0.0% 0.1%			0.3%	0.5%	0.8%	1.1%	1.8%	100.0%
(16) 2372 (17) 2373 (18) 2373 (19) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2383 (24) 238 (25) 238 (26) 238 (27) 238 (28) 2383	 Land Subdivision Highway, Street, and Bridge Construction Highway, Street, and Bridge Construction 	0.0% 0.1%		0.0%	0.0%	0.2%	0.4%	0.4%	0.4%	100.0%
(17) 2373 (18) 2379 (20) 2379 (21) 238 (22) 2381 (23) 238* (24) 238* (25) 238* (26) 238* (27) 238* (28) 238*	Highway, Street, and Bridge Construction Highway, Street, and Bridge Construction	0.1%	0.0%	0.0%	0.0%	0.2%	0.4%	0.4%	0.4%	100.0%
(18) 2373 (19) 2379 (20) 2379 (21) 238 (22) 2381 (23) 238: (24) 238: (25) 238: (26) 238: (27) 238: (28) 238:	310 Highway, Street, and Bridge Construction		0.2%	0.5%	1.4%	2.4%	3.8%	5.3%	6.9%	100.0%
(19) 2379 (20) 2379 (21) 238 (22) 2381 (23) 2383 (24) 238 (25) 238 (26) 238 (27) 238 (28) 238 (28) 238		0.1%	0.2%	0.5%	1.4%	2.4%	3.8%	5.3%	6.9%	100.0%
(20) 2379 (21) 238 (22) 2381 (23) 2382 (24) 2383 (25) 2383 (26) 2383 (27) 2383 (28) 2383 (29) 2384 (20) 2383 (21) 2383 (22) 2383 (23) 2383 (24) 2383		0.1%	0.4%	0.9%	2.4%	4.4%	7.4%	10.5%	15.0%	100.0%
(21) 238 (22) 2381 (23) 2382 (24) 2382 (25) 2382 (26) 2382 (27) 2382 (28) 2382		0.1%	0.4%	0.9%	2.4%	4.4%	7.4%	10.5%	15.0%	100.0%
 (22) 2381 (23) 238 (24) 238 (25) 238 (26) 238 (27) 238 (28) 238 	Specialty Trade Contractors	0.1%	0.4%	0.3%	1.1%	1.7%	2.5%	3.3%	4.1%	100.0%
 (23) (24) (25) (25) (26) (27) (28) (28) 	Foundation, Structure, and Building Exterior	0.170	0.270	0.470	1.170	1.7 70	2.070	0.070	4.170	100.070
 (24) (25) (26) (26) (27) (28) (28) 	Contractors	0.4%	1.0%	2.4%	5.6%	9.0%	11.9%	15.3%	17.6%	100.0%
(25) 238 ³ (26) 238 ³ (27) 238 ³ (28) 238 ³	Poured Concrete Foundation and Structure Contractors	0.6%	1.3%	3.7%	8.1%	11.3%	12.5%	15.7%	22.2%	100.0%
(26) 238 ⁻ (27) 238 ⁻ (28) 238 ⁻	120 Structural Steel and Precast Concrete Contractors	0.4%	1.6%	4.2%	10.1%	15.7%	23.2%	28.9%	42.9%	100.0%
(27) 238 (28) 238	130 Framing Contractors	0.2%	0.4%	0.8%	2.1%	2.7%	4.3%	6.0%	6.0%	100.0%
(27) 238 (28) 238	140 Masonry Contractors	1.5%	4.1%	8.1%	19.6%	30.6%	45.1%	65.3%	65.3%	100.0%
		0.8%	2.5%	7.2%	14.7%	21.9%	26.8%	35.2%	35.2%	100.0%
(00)	5	0.2%	0.7%	1.6%	4.4%	7.2%	9.3%	11.7%	11.7%	100.0%
(29) 238	170 Siding Contractors	6.8%	15.4%	21.7%	49.1%	100.0%	100.0%	100.0%	100.0%	100.0%
(30) 238	190 Other Foundation, Structure, and Building Exterior Contractors	0.4%	0.9%	2.3%	4.4%	7.7%	11.9%	15.6%	21.2%	100.0%
(31) 2382	Building Equipment Contractors	0.0%	0.1%	0.3%	0.8%	1.4%	2.1%	2.8%	3.6%	100.0%
(32) 2382	Electrical Contractors and Other Wiring Installation Contractors	0.0%	0.1%	0.2%	0.6%	0.9%	1.4%	1.9%	2.3%	100.0%
(33) 2382	Plumbing Heating and Air-Conditioning	0.1%	0.2%	0.6%	1.7%	2.8%	4.5%	5.8%	7.6%	100.0%
(34) 2382		0.0%	0.1%	0.3%	0.9%	1.4%	2.1%	2.7%	3.8%	100.0%
(35) 2383	Building Finishing Contractors	0.1%	0.3%	0.6%	1.2%	1.8%	2.4%	2.9%	3.3%	100.0%
(36) 2383		0.1%	0.1%	0.0%	0.5%	0.8%	1.3%	2.3%	2.6%	100.0%
(37) 2383		0.3%	0.7%	1.5%	3.1%	4.5%	6.2%	6.2%	6.2%	100.0%
(38) 2383		0.2%	0.6%	1.2%	2.3%	3.4%	3.9%	4.2%	5.4%	100.0%
(39) 2383		0.2%	0.6%	1.1%	2.0%	3.3%	5.6%	5.6%	5.6%	100.0%
(40) 2383		1.3%	2.6%	5.2%	12.9%	17.9%	21.5%	21.5%	28.0%	100.0%
(41) 2383	350 Finish Carpentry Contractors	0.0%	0.1%	0.2%	0.5%	0.9%	1.1%	1.7%	1.7%	100.0%
(42) 2389		0.1%	0.2%	0.5%	1.2%	1.8%	2.7%	3.5%	4.7%	100.0%
(43) 2389	390 Other Building Finishing Contractors	0.0%	0.1%	0.2%	0.6%	0.7%	1.0%	1.2%	1.8%	100.0%
(44) 2389	390 Other Building Finishing Contractors Other Specialty Trade Contractors		0.3%	0.8%	1.8%	2.8%	4.3%	5.5%	7.3%	100.0%
(45) 23	 Other Building Finishing Contractors Other Specialty Trade Contractors Site Preparation Contractors 	0.1%	0.2%	0.5%	1.2%	1.9%	3.0%	4.0%	5.2%	

Appendix Table E.17 Construction Firms, Nationwide, by Number of Employees, Average Contract Size, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
r							ract by Number of				
	NAICS Code	Industry Sector	1-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 +
	236	Construction of Buildings	\$299,776	\$359,036	\$382,811	\$490,032	\$955,308	\$1,022,884	\$2,791,710	\$3,093,579	\$5,044,604
(2)	2361	Residential Building Construction	\$93,476	\$166,314	\$424,389	\$1,337,161	\$5,310,161	\$1,552,020	\$31,269,829	\$288,928	\$27,383,562
(3)	236115	New Single-Family Housing Construction (except Operative Builders)	\$13,755	\$51,423	\$3,233,896	\$716,988		\$1,638,690		\$58,853	\$39,242,292
(4)	236116	New Multifamily Housing Construction (except Operative Builders)	\$1,044,112	\$133,299	\$89,022	\$5,199,038	\$48,282,954		\$48,526,405	\$372,267	
(5)	236117	New Housing Operative Builders			\$449,849						
(6)		Residential Remodelers	\$73,954	\$203,102	\$113,273	\$42,645	\$786,709	\$251,967	\$14,013,254	\$18,967	\$24,418,880
(7)	2362	Nonresidential Building Construction	\$311,397	\$361,680	\$382,240	\$484,834	\$912,373	\$1,018,674	\$2,548,654	\$3,175,766	\$4,782,410
(8)		Industrial Building Construction	\$264,364	\$148,789	\$200,683	\$694,168	\$270,821	\$944,550	\$1,497,936	\$27,349,482	\$12,488,994
		-									
(9)		Commercial and Institutional Building Construction	\$315,869	\$382,079	\$436,263	\$469,747	\$1,006,293	\$1,022,634	\$2,563,815	\$2,907,170	\$4,488,170
(10)		Heavy and Civil Engineering Construction	\$193,717	\$281,430	\$601,917	\$607,376	\$1,029,184	\$827,050	\$2,620,665	\$1,061,437	\$9,143,997
(11)	2371	Utility System Construction	\$109,421	\$153,084	\$197,778	\$425,225	\$864,586	\$328,831	\$8,089,138	\$78,798	\$445,835
(12)	237110	Water and Sewer Line and Related Structures Construction	\$48,646	\$101,315	\$146,082	\$526,965	\$1,377,967	\$226,538	\$10,521,080	\$183,525	\$1,439,415
(13)	237120	Oil and Gas Pipeline and Related Structures	\$1,727,342	\$396,984	\$267,882	\$129,306	\$475,508	\$80,169	\$36,371,486	\$4,013	\$462,116
		Construction Power and Communication Line and Related			,		• • • • • • •	,			, .
(14)	237130	Structures Construction	\$54,222	\$291,189	\$253,696	\$311,189	\$301,794	\$412,039	\$82,770	\$60,842	\$40,961
(15)	2372	Land Subdivision	\$13,660			\$11,124	\$3,934	\$10,251			\$4,852
(16)		Land Subdivision	\$13,660			\$11,124	\$3,934	\$10,251			\$4,852
(17)	2373	Highway, Street, and Bridge Construction	\$206,948	\$101,108	\$431,647	\$474,107	\$880,083	\$494,865	\$936,181	\$793,392	\$1,881,730
(18)		Highway, Street, and Bridge Construction	\$206,948	\$101,108	\$431,647	\$474,107	\$880,083	\$494,865	\$936,181	\$793,392	\$1,881,730
(19)	2379	Other Heavy and Civil Engineering Construction	\$252,518	\$498,387	\$965,359	\$781,576	\$1,161,654	\$1,161,017	\$2,272,817	\$1,505,728	\$24,755,501
(20)	237990	Other Heavy and Civil Engineering Construction	\$252,518	\$498,387	\$965,359	\$781,576	\$1,161,654	\$1,161,017	\$2,272,817	\$1,505,728	\$24,755,501
(21)	238	Specialty Trade Contractors	\$59,349	\$84,812	\$97,473	\$147,816	\$168,867	\$113,679	\$99,793	\$577,579	\$105,025
(22)	2381	Foundation, Structure, and Building Exterior Contractors	\$47,401	\$86,787	\$113,072	\$293,925	\$383,005	\$239,605	\$158,298	\$120,456	\$232,925
(23)	238110	Poured Concrete Foundation and Structure Contractors	\$24,781	\$17,801	\$99,300	\$861,971	\$4,182,421	\$8,073	\$3,590	\$19,972	\$42,863
(24)	238120	Structural Steel and Precast Concrete Contractors	\$64,434	\$83,910	\$94,653	\$67,228	\$33,009	\$231,046		\$10,193	\$22,170
(25)	238130	Framing Contractors	\$10,610	\$149,640	\$26,156	\$25,096	\$14,574	\$2,707	\$24,735		\$6,537
(26)		Masonry Contractors	\$41,309	\$71,400	\$280,988	\$135,123	\$184,314	\$204,171	φ24,700		ψ0,007
(27)		Glass and Glazing Contractors	\$10,669	\$11,362	\$127,832	\$20,536	\$7,228	\$62,270	\$13,323		\$36,680
(28)	238160	Roofing Contractors	\$102,653	\$160,809	\$145,115	\$295,842	\$332,120	\$335,228	\$272,170		\$159,858
(29)	238170	Siding Contractors	\$22,956	\$7,455	\$12,900	\$35,380	\$153,881	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	φ272,170		φ100,000
. ,		Other Foundation, Structure, and Building Exterior						\$4C4 404	Ф Т 47 Г	¢400.450	¢0.40 500
(30)	238190	Contractors	\$19,193	\$42,565	\$53,951	\$173,749	\$149,630	\$161,494	\$7,475	\$126,152	\$340,538
(31)	2382	Building Equipment Contractors Electrical Contractors and Other Wiring Installation	\$70,207	\$72,029	\$73,856	\$108,522	\$137,867	\$31,219	\$69,121	\$32,967	\$79,941
(32)	238210	Contractors	\$80,250	\$63,903	\$76,103	\$108,928	\$65,699	\$50,721	\$36,452	\$50,022	\$87,359
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	\$56,791	\$82,024	\$81,358	\$113,252	\$187,505	\$26,839	\$85,801	\$26,608	\$74,575
(34)		Other Building Equipment Contractors	\$56,229	\$89,138	\$37,074	\$76,356	\$115,984	\$16,400	\$47,594	\$45,880	\$70,128
(35)	2383	Building Finishing Contractors	\$29,331	\$88,750	\$42,457	\$94,569	\$40,984	\$45,250	\$21,516	\$16,917	\$114,824
(36)	238310	Drywall and Insulation Contractors	\$22,144	\$23,393	\$6,354	\$536,358	\$5,131	\$3,836	\$8,638	\$46,316	\$187,481
(37)	238320	Painting and Wall Covering Contractors	\$22,748	\$217,897	\$69,428	\$77,516	\$47,393	\$34,821			\$185,084
(38)		Flooring Contractors	\$21,849	\$42,740	\$25,885	\$61,360	\$43,697	\$17,543	\$4,519	\$9,567	\$38,709
(39)		Tile and Terrazzo Contractors	\$21,835	\$11,685	\$16,926	\$7,599	\$7,500	\$12,162			\$11,729
(40)	238350	Finish Carpentry Contractors	\$63,026	\$30,547	\$58,803	\$33,021	\$56,183	\$8,808			\$14,120
(41)	238390	Other Building Finishing Contractors	\$44,354	\$57,387	\$44,858	\$33,470	\$27,340	\$107,523	\$23,043		\$118,928
(42)	2389	Other Specialty Trade Contractors	\$73,269	\$104,564	\$166,145	\$156,053	\$166,324	\$229,804	\$175,311	\$2,398,700	\$161,996
(43)	238910	Site Preparation Contractors	\$47,643	\$155,764	\$283,535	\$203,982	\$264,519	\$1,958,338	\$44,633	\$8,299,988	\$87,972
(44)	238990	All Other Specialty Trade Contractors	\$82,964	\$93,209	\$117,702	\$141,801	\$148,387	\$165,386	\$183,394	\$224,542	\$168,164
(45)	23	All Construction Firms	\$157,955	\$230,416	\$317,137	\$379,689	\$706,751	\$686,026	\$2,033,240	\$1,671,513	\$3,722,042

Appendix Table E.18 Construction Firms, Nationwide, by Average Firm Revenue, Average Contract Size, Federal Procurement Data System 2009

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(o)	(p)
г				\$10,000-	\$20,000-	\$30,000-	\$40,000-	Avera \$50,000-	age Contract by \$75,000-	Average Firm R \$100,000-	evenue \$150,000-	\$200,000-	\$250,000-	\$500,000-	\$750,000-	\$1,000,000-
1	NAICS Code	Industry Sector	<\$10,000	\$20,000	\$20,000- \$30,000	\$30,000- \$40,000	\$40,000- \$50,000	\$75,000- \$75,000	\$100,000	\$150,000-	\$200,000	\$200,000- \$250,000	\$250,000-	\$750,000-	\$1,000,000	\$2,000,000
	36	Construction of Buildings	\$454,976	\$406,988	\$676,849	\$325,000	\$214,921	\$522,299	\$265,779	\$131,889	\$132,682	\$260,607	\$304,282	\$229,207	\$229,249	\$299,957
(2)	2361	Residential Building Construction	\$6,760	\$25,471	\$7,640	\$24,032	\$5,819	\$19,582	\$7,547	\$8,612	\$17,790	\$173,211	\$277,708	\$16,021	\$52,526	\$317,781
(3)	236115	New Single-Family Housing Construction (except Operative Builders)	\$25,794				\$11,500		\$13,708				\$44,914		\$5,110	\$1,007,070
(1)	000140	New Multifamily Housing Construction (except								£400				£40.440		\$00 0F2
(4)	236116	Operative Builders)								\$188				\$16,410		\$96,653
(5)	236117	New Housing Operative Builders	\$904	#05 474	¢7.040	¢04.000	¢4.000	\$40 F00	¢0.050	* 0.005	\$17,790	¢470.044	¢040 507	¢15 000	\$61,148	¢4.40.700
(6) (7)	236118 2362	Residential Remodelers Nonresidential Building Construction	\$904 \$636,396	\$25,471 \$429,430	\$7,640 \$715,090	\$24,032 \$410,991	\$4,683 \$263,176	\$19,582 \$555,445	\$3,850 \$268,529	\$9,665 \$140,764	\$17,790 \$141,130	\$173,211 \$273,526	\$316,507 \$305,129	\$15,989 \$232,452	\$01,148 \$231,927	\$148,720 \$299,465
(8)	236210	Industrial Building Construction	\$62,812	\$13,938	\$5,675	\$5,800	\$11,431	\$15,096	\$150,871	\$20,237	\$289,765	\$73,131	\$172,457	\$697,327	\$153,061	\$215,991
(9)	236220	Commercial and Institutional Building Construction	\$713,907	\$484,829	\$725,371	\$425,998	\$284,155	\$600,475	\$736,047	\$147,914	\$131,841	\$284,557	\$319,647	\$221,304	\$249,728	\$305,317
(10) 2	27	Heavy and Civil Engineering Construction	\$687,701	\$18,740	\$165,558	\$332,924	\$124,706	\$25,186	\$419.112	\$62,657	\$96.325	\$119,371	\$204.694	\$117.721	\$159,936	\$233.270
	2371	Utility System Construction	\$277,945	\$6,671	\$747,736	\$44,202	\$27,301	\$14,314	\$34,370	\$16,122	\$90,323 \$12,839	\$35,923	\$244,337	\$66,260	\$93,395	\$159.355
(12)	237110	Water and Sewer Line and Related Structures		• • • •	\$747,736	\$57,477	\$48,500	\$12,997	\$37,271	\$21,040	\$13,305	\$24,130	\$49,675	\$70,175	\$75,474	\$147,886
(12)	237110	Construction			\$141,150	\$57,477	\$48,500	φ12, 33 7	φ37,27 T	φ21,0 4 0	\$13,303	φ24,130	\$49,075	\$70,175	\$75,474	\$147,000
(13)	237120	Oil and Gas Pipeline and Related Structures Construction						\$26,064	\$1,040	\$2,150			\$3,233,607	\$98,310	\$213,048	\$33,065
(14)	237130	Power and Communication Line and Related	\$277,945	\$6,671		\$4,377	\$13,168	\$5,300	\$11,803	\$6,746	\$7,820	\$81,787	\$91,852	\$27,785	\$84,050	\$220,309
		Structures Construction	φ211,040	φ0,07 1		φ-ι,011	ψ10,100	φ0,000	ψ11,000	φ0,740	ψ1,020	<i>Q01,707</i>	ψ01,002	ψ21,100	φ04,000	
(15) (16)	2372 237210	Land Subdivision Land Subdivision														\$12,392 \$12,392
	237210	Highway, Street, and Bridge Construction	\$2,286,217	\$27,596	\$126,444	\$11,505	\$33,633	\$28,911	\$432.904	\$89.001	\$50,449	\$118,092	\$158,057	\$88,835	\$90.088	\$151,182
(18)	237310	Highway, Street, and Bridge Construction	\$2,286,217	\$27,596	\$126,444	\$11,505	\$33,633	\$28,911	\$432,904	\$89,001	\$50,449	\$118,092	\$158,057	\$88,835	\$90,088	\$151,182
(19)	2379	Other Heavy and Civil Engineering Construction	\$13,960	\$5,213	\$10,613	\$1,184,130	\$240,526	\$27,624	\$898,331	\$40,258	\$349,071	\$229,582	\$216,531	\$188,507	\$269,306	\$337,070
(20)	237990	Other Heavy and Civil Engineering Construction	\$13,960	\$5,213	\$10,613	\$1,184,130	\$240,526	\$27,624	\$898,331	\$40,258	\$349,071	\$229,582	\$216,531	\$188,507	\$269,306	\$337,070
(21) 2	38	Specialty Trade Contractors	\$13,183	\$21,702	\$15,828	\$40,378	\$50,685	\$18,408	\$40,043	\$46,900	\$25,051	\$37,232	\$74,838	\$54,790	\$87,363	\$76,344
(22)	2381	Foundation, Structure, and Building Exterior Contractors	\$12,116	\$6,600	\$5,924	\$173,777	\$17,392	\$13,605	\$27,345	\$26,003	\$34,843	\$35,175	\$93,646	\$43,413	\$74,796	\$89,892
(00)	000140	Poured Concrete Foundation and Structure	¢F 40	¢40.054	* 5 500		¢54 400	\$0.004	¢00.000	*- - - - - - - - - -	¢0.000	¢00.000	¢04400	¢ 45 000	\$40 COF	¢40.404
(23)	238110	Contractors	\$540	\$12,054	\$5,500		\$51,480	\$9,804	\$20,288	\$5,610	\$9,262	\$26,033	\$34,139	\$45,608	\$18,605	\$18,121
(24)	238120	Structural Steel and Precast Concrete Contractors								\$9,415	\$7,438		\$52,489	\$19,378	\$163,930	\$31,052
(25)	238130	Framing Contractors				\$750	\$7,418		\$1,619	\$19,645	\$13,494	\$4,855	\$8,050	\$12,529	\$24,606	\$62,819
(26)	238140	Masonry Contractors	\$15,250			\$14,570	\$7,065		\$10,779	\$41,878	\$14,000	\$21,081	\$35,557	\$14,500	\$42,353	\$218,056
(27)	238150	Glass and Glazing Contractors	\$4,900		\$358	\$7,178		\$12,100	\$7,023	\$3,865	\$6,475	\$3,807	\$11,500	\$6,930	\$7,121	\$109,031
(28)	238160	Roofing Contractors	\$24,615	\$2,509	\$11,293	\$492,615	\$25,169	\$15,247	\$54,048	\$21,247	\$120,768	\$58,067	\$179,472	\$88,106	\$91,593	\$136,696
(29)	238170	Siding Contractors			\$5,900	\$37,134	\$14,095			\$1,350	\$77,931	\$25,467	\$6,913	\$14,240		\$8,850
(30)	238190	Other Foundation, Structure, and Building Exterior Contractors	\$11,817		\$7,065	\$5,461	\$36,091	\$7,937	\$16,024	\$110,541	\$12,466	\$17,660	\$15,371	\$32,443	\$82,119	\$23,235
(31)	2382	Building Equipment Contractors	\$15,720	\$24,762	\$22,563	\$15,445	\$125,656	\$20,239	\$84,568	\$44,058	\$27,759	\$46,409	\$77,580	\$66,868	\$72,416	\$58,318
(32)	238210	Electrical Contractors and Other Wiring Installation Contractors	\$16,542	\$8,505	\$23,684	\$6,026	\$108,377	\$16,567	\$69,948	\$52,355	\$31,350	\$38,418	\$101,342	\$51,384	\$75,417	\$54,168
(33)	238220	Plumbing, Heating, and Air-Conditioning Contractors	\$12,925	\$45,444	\$7,973	\$32,503	\$241,367	\$26,624	\$39,431	\$33,694	\$19,297	\$51,633	\$29,234	\$83,527	\$79,166	\$70,820
(34)	238290	Other Building Equipment Contractors		\$6,845	\$180,253	\$14,930	\$17,030	\$9,978	\$657,715	\$11,402	\$13,212	\$94,752	\$60,432	\$103,593	\$50,567	\$17,652
(35)	2383	Building Finishing Contractors	\$11,430	\$25,024	\$20,655	\$11,488	\$14,671	\$14,406	\$14,901	\$27,384	\$16,794	\$13,718	\$53,389	\$33,775	\$68,303	\$56,552
(36)	238310	Drywall and Insulation Contractors					\$8,820		\$9,124	\$35,040	\$24,381	\$7,800	\$17,005	\$5,950	\$687,316	\$8,155
(37)	238320	Painting and Wall Covering Contractors	\$8,048	\$13,429	\$5,200	\$11,294	\$11,212	\$6,974	\$15,078	\$46,722	\$13,456	\$18,156	\$58,406	\$39,306	\$46,598	\$117,470
(38)	238330	Flooring Contractors	\$31,667	\$85,806	\$19,781	\$17,616	\$23,912	\$11,646	\$13,383	\$13,344	\$46,548	\$10,880	\$15,843	\$32,411	\$19,416	\$56,450
(39)	238340	Tile and Terrazzo Contractors		** ***	\$97,500	A A A A		• • • • • •	\$23,422	\$12,750	\$16,568	• • • • • • • •	\$8,268	\$4,715	\$8,749	\$15,658
(40)	238350	Finish Carpentry Contractors	\$1,961	\$9,687	\$7,057	\$9,763	\$9,286	\$11,450	\$14,095	\$10,575	\$13,731	\$13,667	\$134,798	\$35,977	\$21,521	\$64,425
(41) (42)	238390 2389	Other Building Finishing Contractors	\$12,120	£10.070	\$33,975 \$10,678	\$7,902	\$10,500 \$10,887	\$49,693	\$14,987	\$26,399 \$78,257	\$12,613 \$20,032	\$12,998 \$34,259	\$67,212	\$25,081	\$31,947	\$39,168
(42)	2389 238910	Other Specialty Trade Contractors Site Preparation Contractors	\$6,221 \$5,658	\$18,379 \$20,804	\$10,678 \$19,848	\$28,287 \$7,899	\$10,887 \$12,550	\$18,471 \$13,491	\$30,254 \$18,979	\$78,257 \$11,776	\$20,032 \$25,791	\$34,259 \$18,644	\$71,740 \$127,386	\$57,921 \$54,336	\$136,950 \$78,946	\$124,345 \$187,282
(43)	238990	All Other Specialty Trade Contractors	\$6,784	\$20,804 \$16,481	\$8,386	\$32.170	\$12,550	\$18,945	\$18,979	\$95,784	\$25,791 \$17,295	\$10,644	\$58,402	\$59,344	\$158,285	\$110,885
(45)	200000	All Construction Firms	\$236,750	\$65,314	\$278,757	\$148,783	\$86,044	\$166,571	\$229,711	\$64,514	\$65,256	\$108,453	\$160,081	\$146,385	\$154,695	\$193,603

Appendix Table E.18 Construction Firms, Nationwide, by Average Firm Revenue, Average Contract Size, Federal Procurement Data System 2009

(a)	(b)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)
-						Average Firm R			
NAICS Code	Industry Sector	\$2,000,000- \$5.000.000	\$5,000,000- \$10.000.000	\$10,000,000- \$25,000,000	\$25,000,000- \$50,000,000	\$50,000,000- \$100,000,000	\$100,000,000- \$250,000,000	\$250,000,000- \$500.000.000	> \$500,000,000
236	Construction of Buildings	\$386,134	\$509,183	\$712,482	\$1,039,722	\$3,152,573	\$1,480,900	\$3,675,451	\$8,271,508
2361	Residential Building Construction	\$608,084	\$1,558,115	\$10,869,929	\$8,591,330	\$8,078,662	\$1,790,747	\$55,596,877	\$18,318,346
	New Single-Family Housing Construction (except			ψ10,000,020	ψ0,001,000				ψ10,010,040
236115	Operative Builders)	\$3,029,302	\$13,996			\$1,747,920	\$3,205,607	\$55,596,877	
236116	New Multifamily Housing Construction (except Operative Builders)	\$1,127,042	\$12,399,875	\$48,282,954		\$48,526,405	\$1,083,317		\$16,742
236117	New Housing Operative Builders	\$449,849							
236118	Residential Remodelers	\$34,256	\$119,586	\$180,494	\$8,591,330	\$1,394,878			\$24,418,880
2362	Nonresidential Building Construction	\$384,416	\$501,605	\$685,492	\$1,004,379	\$2,861,245	\$1,479,662	\$3,437,279	\$8,061,378
236210	Industrial Building Construction	\$354,071	\$349,982	\$1,200,624	\$173,407	\$2,059,689	\$412,099	\$8,255,806	\$13,051,140
236220	Commercial and Institutional Building Construction	\$386,067	\$519,630	\$664,272	\$1,165,312	\$2,911,629	\$1,592,865	\$3,324,168	\$7,742,144
237	Heavy and Civil Engineering Construction	\$520,335	\$670,861	\$960,697	\$1,588,557	\$1,344,559	\$1,124,512	\$2,717,548	\$11,031,524
2371	Utility System Construction	\$288,375	\$441,394	\$978,528	\$2,805,026	\$2,475,428	\$109,879	\$320,478	\$548,029
237110	Water and Sewer Line and Related Structures	\$235,469	\$435,320	\$1,517,327	\$8,047,708	\$2,459,954	\$207,377	\$894,580	\$2,784,930
20/110	Construction	φ200,400	ψ+00,020	ψ1,011,021	ψ0,047,700	φ2,400,004	φ201,011	φ004,000	φ2,704,000
237120	Oil and Gas Pipeline and Related Structures Construction	\$546,290	\$362,336	\$459,785	\$43,330	\$12,226,148	\$31,791	\$12,949	\$554,254
237130	Power and Communication Line and Related	\$323,419	\$466,020	\$303,451	\$371,983	\$49,353	\$79,760	\$6,770	\$58,228
	Structures Construction	\$525, 4 15	ψ + 00,020		ψ0/1,300	φ43,555	ψ <i>13,100</i>	ψ0,770	
2372	Land Subdivision			\$4,636					\$4,852
237210	Land Subdivision			\$4,636					\$4,852
2373	Highway, Street, and Bridge Construction	\$349,739	\$475,677	\$490,679	\$1,516,817	\$436,576	\$2,321,282	\$488,373	\$1,883,883
237310	Highway, Street, and Bridge Construction	\$349,739	\$475,677	\$490,679	\$1,516,817	\$436,576	\$2,321,282	\$488,373	\$1,883,883
2379	Other Heavy and Civil Engineering Construction	\$812,436	\$832,442	\$1,360,899	\$1,280,225	\$1,649,462	\$727,381	\$4,297,211	\$23,552,183
237990	Other Heavy and Civil Engineering Construction	\$812,436	\$832,442	\$1,360,899	\$1,280,225	\$1,649,462	\$727,381	\$4,297,211	\$23,552,183
238	Specialty Trade Contractors	\$122,881	\$165,365	\$148,199	\$237,166	\$132,777	\$662,741	\$110,121	\$101,538
2381	Foundation, Structure, and Building Exterior Contractors	\$265,643	\$310,541	\$323,020	\$380,018	\$29,763	\$19,144	\$123,842	\$331,048
238110	Poured Concrete Foundation and Structure Contractors	\$90,719	\$2,150,363	\$2,511,180	\$6,236	\$19,972		\$45,568	\$37,453
238120	Structural Steel and Precast Concrete Contractors	\$163,049	\$80,832	\$120,585	\$10,915			\$10,193	\$22,170
238130	Framing Contractors	\$190,315	\$38,356	\$27,259	\$24,735				\$6,537
238140	Masonry Contractors	\$219,742	\$188,298	\$151,818					
238150	Glass and Glazing Contractors	\$82,833	\$19,657	\$16,057	\$6,398	\$64,186	\$40,256	\$7,555	
238160	Roofing Contractors	\$406,744	\$244,252	\$251,407	\$737,752	\$3,615	\$10,368	\$125,999	\$227,575
238170	Siding Contractors	\$24,140		\$153,881					
238190	Other Foundation, Structure, and Building Exterior	\$94,109	\$90,520	\$194,021	\$215,682	\$9,172	\$9,223	\$143,367	\$393,493
2382	Contractors Building Equipment Contractors	\$79,955	\$150,292	\$87,024	\$105,305	\$30,364	\$56,876	\$82,911	\$82,379
238210	Electrical Contractors and Other Wiring Installation Contractors	\$100,195	\$136,955	\$61,564	\$90,584	\$59,023	\$47,442	\$25,647	\$94,760
238220	Plumbing, Heating, and Air-Conditioning Contractors	\$68,198	\$167,459	\$101,847	\$112,011	\$26,022	\$74,571	\$147,166	\$55,036
238290	Other Building Equipment Contractors	\$62,289	\$117,865	\$44,436	\$73,464	\$16,075	\$20,635	\$30,577	\$156,459
2383	Building Finishing Contractors	\$87,099	\$39,961	\$175,830	\$100,945	\$34,466	\$24,972	\$214,318	\$41,973
238310	Drywall and Insulation Contractors	\$7,777	\$40,398	\$503,978	\$7,228	\$8,419	\$6,776	\$46,316	\$187,481
238320	Painting and Wall Covering Contractors	\$179,288	\$24,411	\$154,655	\$245,353	\$72,948	\$49,380	÷ 10,010	\$154,994
238330	Flooring Contractors	\$50,751	\$38,154	\$36,704	\$20,841	\$16,451	\$4,519	\$14,734	\$38,709
238340	Tile and Terrazzo Contractors	\$5,930	\$79,600	\$8,610	\$16,324	<i>φ</i> .0, ю	ψ.,στο	φ,. 04	\$11,729
238350	Finish Carpentry Contractors	\$51,636	\$27,988	\$74,160	Ψ10,0 Σ -1				\$14,120
238390	Other Building Finishing Contractors	\$36,911	\$72,137	\$64,233	\$129,724	\$10,889	\$23,532	\$231,822	\$26,292
238390	Other Specialty Trade Contractors	\$151,809	\$186,446	\$188,168	\$371,731	\$214,394	\$2,715,786	\$93,269	\$135,644
	Site Preparation Contractors	\$223.534	\$323,380	\$272,982	\$3,374,476	\$322,796	\$11,427,649	\$93,269	\$104,147
238010		φzz3,034							
238910 238990	All Other Specialty Trade Contractors	\$119,992	\$156,125	\$175,888	\$207,944	\$211,403	\$75,827	\$168,587	\$138,615

APPENDIX F

Appendix Table F.1 Look-Up Table by Which Construction Contractors Can Identify the Economic Area for their State and County

(a)	(b)	-	(c)				
State	County	Economic Area					
	Autauga County		Montgomery-Alexander City, AL				
	Baldwin County Barbour County		Mobile-Daphne-Fairhope, AL Dothan-Enterprise-Ozark, AL				
	Bibb County	19	Birmingham-Hoover-Cullman, AL				
	Blount County	19	Birmingham-Hoover-Cullman, AL				
	Bullock County Butler County		Montgomery-Alexander City, AL Montgomery-Alexander City, AL				
	Calhoun County	114					
	Chambers County	11	Atlanta-Sandy Springs-Gainesville, GA-AL				
	Cherokee County	11	Atlanta-Sandy Springs-Gainesville, GA-AL				
	Chilton County Choctaw County	19 80	Birmingham-Hoover-Cullman, AL Jackson-Yazoo City, MS				
	Clarke County	112	Mobile-Daphne-Fairhope, AL				
	Clay County	19	Birmingham-Hoover-Cullman, AL				
	Cleburne County	11	Atlanta-Sandy Springs-Gainesville, GA-AL				
	Coffee County Colbert County	48 76					
	Conecuh County		Mobile-Daphne-Fairhope, AL				
	Coosa County		Montgomery-Alexander City, AL				
	Covington County	48	Dothan-Enterprise-Ozark, AL Montgomery-Alexander City, AL				
	Crenshaw County Cullman County	114					
	Dale County	48	Dothan-Enterprise-Ozark, AL				
	Dallas County		Montgomery-Alexander City, AL				
	DeKalb County Elmore County	76	Huntsville-Decatur, AL Montgomery-Alexander City, AL				
	Escambia County		Montgomery-Alexander City, AL Mobile-Daphne-Fairhope, AL				
	Etowah County		Huntsville-Decatur, AL				
	Fayette County	19	Birmingham-Hoover-Cullman, AL				
	Franklin County Geneva County	76 48	Huntsville-Decatur, AL				
	Greene County	48	Dothan-Enterprise-Ozark, AL Birmingham-Hoover-Cullman, AL				
	Hale County	19	Birmingham-Hoover-Cullman, AL				
Alabama	Henry County	48	Dothan-Enterprise-Ozark, AL				
	Houston County	48	Dothan-Enterprise-Ozark, AL				
	Jackson County Jefferson County	76 19	Huntsville-Decatur, AL Birmingham-Hoover-Cullman, AL				
	Lamar County	19	Birmingham-Hoover-Cullman, AL				
	Lauderdale County	76	Huntsville-Decatur, AL				
	Lawrence County	76					
	Lee County Limestone County	39 76	Columbus-Auburn-Opelika, GA-AL Huntsville-Decatur, AL				
	Lowndes County		Montgomery-Alexander City, AL				
	Macon County	39	Columbus-Auburn-Opelika, GA-AL				
	Madison County	76	Huntsville-Decatur, AL				
	Marengo County Marion County		Mobile-Daphne-Fairhope, AL Birmingham-Hoover-Cullman, AL				
	Marshall County		Huntsville-Decatur, AL				
	Mobile County		Mobile-Daphne-Fairhope, AL				
	Monroe County Montgomery County		Mobile-Daphne-Fairhope, AL Montgomery-Alexander City, AL				
	Montgomery County Morgan County		Huntsville-Decatur, AL				
	Perry County		Montgomery-Alexander City, AL				
	Pickens County		Birmingham-Hoover-Cullman, AL				
	Pike County Randolph County	114	Montgomery-Alexander City, AL				
	Russell County	39	Atlanta-Sandy Springs-Gainesville, GA-AL Columbus-Auburn-Opelika, GA-AL				
	Shelby County	19					
	St. Clair County	19	Birmingham-Hoover-Cullman, AL				
	Sumter County		Jackson-Yazoo City, MS				
	Talladega County Tallapoosa County	19	Birmingham-Hoover-Cullman, AL Montgomery-Alexander City, AL				
	Tuscaloosa County	19					
	Walker County		Birmingham-Hoover-Cullman, AL				
	Washington County		Mobile-Daphne-Fairhope, AL				
	Wilcox County Winston County		Mobile-Daphne-Fairhope, AL Birmingham-Hoover-Cullman, AL				
Alaska	All Boroughs & Census Areas	8	Anchorage, AK				
	Apache County		Phoenix-Mesa-Scottsdale, AZ				
	Cochise County	169	Tucson, AZ				
	Coconino County Gila County		Flagstaff, AZ Phoenix-Mesa-Scottsdale, AZ				
	Graham County		Phoenix-Mesa-Scottsdale, AZ				
	Greenlee County	128	Phoenix-Mesa-Scottsdale, AZ				
Naizon -	La Paz County	97	Los Angeles-Long Beach-Riverside, CA				
Arizona	Maricopa County Mohave County		Phoenix-Mesa-Scottsdale, AZ Las Vegas-Paradise-Pahrump, NV				
	Navajo County		Phoenix-Mesa-Scottsdale, AZ				
	Pima County	169	Tucson, AZ				
	Pinal County		Phoenix-Mesa-Scottsdale, AZ				
	Santa Cruz County Yavapai County		Tucson, AZ Phoenix-Mesa-Scottsdale, AZ				
	Yuma County		Los Angeles-Long Beach-Riverside, CA				
	Arkansas County		Little Rock-North Little Rock-Pine Bluff, AR				
	Ashley County	96	Little Rock-North Little Rock-Pine Bluff, AR				

	Baxter County		Springfield, MO
	Benton County		Fayetteville-Springdale-Rogers, AR-MO
	Boone County		Springfield, MO
	Bradley County		Little Rock-North Little Rock-Pine Bluff, AR
	Calhoun County		Little Rock-North Little Rock-Pine Bluff, AR
	Carroll County Chicot County		Springfield, MO
	Clark County		Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR
	Clay County		Jonesboro, AR
	Cleburne County		Little Rock-North Little Rock-Pine Bluff, AR
	Cleveland County		Little Rock-North Little Rock-Pine Bluff, AR
	Columbia County		Little Rock-North Little Rock-Pine Bluff, AR
	Conway County		Little Rock-North Little Rock-Pine Bluff, AR
	Craighead County		Jonesboro, AR
	Crawford County		Fort Smith, AR-OK
	Crittenden County		Memphis, TN-MS-AR
	Cross County		Memphis, TN-MS-AR
	Dallas County		Little Rock-North Little Rock-Pine Bluff, AR
	Desha County		Little Rock-North Little Rock-Pine Bluff, AR
	Drew County		Little Rock-North Little Rock-Pine Bluff, AR
	Faulkner County		Little Rock-North Little Rock-Pine Bluff, AR
	Franklin County		Fort Smith, AR-OK
	Fulton County	96	Little Rock-North Little Rock-Pine Bluff, AR
	Garland County	96	Little Rock-North Little Rock-Pine Bluff, AR
	Grant County	96	Little Rock-North Little Rock-Pine Bluff, AR
	Greene County	82	Jonesboro, AR
	Hempstead County		Texarkana, TX-Texarkana, AR
	Hot Spring County		Little Rock-North Little Rock-Pine Bluff, AR
	Howard County		Texarkana, TX-Texarkana, AR
	Independence County		Little Rock-North Little Rock-Pine Bluff, AR
	Izard County		Little Rock-North Little Rock-Pine Bluff, AR
	Jackson County		Little Rock-North Little Rock-Pine Bluff, AR
	Jefferson County		Little Rock-North Little Rock-Pine Bluff, AR
	Johnson County		Little Rock-North Little Rock-Pine Bluff, AR
A	Lafayette County		Little Rock-North Little Rock-Pine Bluff, AR
Arkansas	Lawrence County		Jonesboro, AR
	Lee County		Memphis, TN-MS-AR
	Lincoln County		Little Rock-North Little Rock-Pine Bluff, AR
	Little River County		Texarkana, TX-Texarkana, AR
	Logan County		Fort Smith, AR-OK
	Lonoke County		Little Rock-North Little Rock-Pine Bluff, AR
	Madison County		Fayetteville-Springdale-Rogers, AR-MO
	Marion County		Springfield, MO
	Miller County		Texarkana, TX-Texarkana, AR
	Mississippi County Monroe County		Jonesboro, AR Little Rock-North Little Rock-Pine Bluff, AR
	Montgomery County		Texarkana, TX-Texarkana, AR
	Nevada County		Texarkana, TX-Texarkana, AR
	Newton County		Springfield, MO
	Ouachita County		Little Rock-North Little Rock-Pine Bluff, AR
	Perry County		Little Rock-North Little Rock-Pine Bluff, AR
	Phillips County		Memphis, TN-MS-AR
	Pike County		Texarkana, TX-Texarkana, AR
	Poinsett County		Jonesboro, AR
	Polk County		Texarkana, TX-Texarkana, AR
	Pope County		Little Rock-North Little Rock-Pine Bluff, AR
	Prairie County		Little Rock-North Little Rock-Pine Bluff, AR
	Pulaski County		Little Rock-North Little Rock-Pine Bluff, AR
	Randolph County		Jonesboro, AR
	Saline County		Little Rock-North Little Rock-Pine Bluff, AR
	Scott County		Fort Smith, AR-OK
	Scott County Searcy County	59 96	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR
	Scott County Searcy County Sebastian County	59 96 59	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK
	Scott County Searcy County Sebastian County Sevier County	59 96 59 165	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR
	Scott County Searcy County Sebastian County Sevier County Sharp County	59 96 59 165 96	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR
	Scott County Searcy County Sebastian County Sevier County Sharp County St. Francis County	59 96 59 165 96 105	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR
	Scott County Searcy County Sebastian County Sevier County Sharp County St. Francis County Stone County	59 96 59 165 96 105 96	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR
	Scott County Searcy County Sebastian County Sevier County Sharp County Starp County Stone County Union County	59 96 59 165 96 105 96 96	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR
	Scott County Searcy County Sebastian County Sevier County Sharp County St. Francis County Stone County Union County Van Buren County	59 96 59 165 96 105 96 96 96	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR
	Scott County Searcy County Sebastian County Sevier County Sharp County St. Francis County St. Francis County Union County Union County Van Buren County Washington County	59 96 59 165 96 105 96 96 96 96 96 96 57	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Fayetteville-Springdale-Rogers, AR-MO
	Scott County Searcy County Sebastian County Sevier County Sharp County St. Francis County Stone County Union County Van Buren County Washington County White County	59 96 59 165 96 105 96 96 96 96 96 96 96 96 96 96 96 96 96	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Fayetteville-Springdale-Rogers, AR-MO Little Rock-North Little Rock-Pine Bluff, AR
	Scott County Searcy County Sebastian County Sevier County Sharp County Starp County Stone County Union County Van Buren County Washington County White County Woodruff County	59 96 59 165 96 105 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR
	Scott County Searcy County Sebastian County Sevier County Sharp County Starp County Stone County Union County Van Buren County Washington County Washington County White County Woodruff County Yell County	59 96 59 165 96 105 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96 96	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR
	Scott County Searcy County Sebastian County Sevier County Sharp County St. Francis County St. Francis County Union County Union County Wan Buren County Washington County White County White County White County Yell County Alameda County	59 96 59 165 96 105 96	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Fayetteville-Springdale-Rogers, AR-MO Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA
	Scott County Searcy County Searcy County Sevier County Sharp County St. Francis County Stone County Union County Union County Wan Buren County Washington County White County White County Yell County Alameda County Alpine County	59 96 59 165 96	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Fayetteville-Springdale-Rogers, AR-MO Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV
	Scott County Searcy County Sebastian County Sevier County Sharp County Starp County Stone County Union County Van Buren County Washington County White County White County Weodruff County Yell County Alameda County Alapine County Amador County	59 96 59 165 96 9146 140	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV
	Scott County Searcy County Sebastian County Sevier County Sharp County Starp County Stone County Union County Washington County Washington County Washington County White County Woodruff County Yell County Alameda County Alameda County Anador County Butte County	59 96 59 165 96 9140 140	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV
	Scott County Searcy County Sebastian County Sevier County Sharp County St. Francis County St. Francis County Union County Van Buren County Washington County White County White County White County Yell County Alameda County Alameda County Amador County Butte County Calaveras County	59 96 59 165 96 9146 140 140	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA
	Scott County Searcy County Sebastian County Sevier County Sharp County St. Francis County Stone County Union County Wan Buren County Washington County White County White County White County Yell County Alameda County Alapine County Alameda County Butte County Calaveras County Colusa County	$\begin{array}{c} 59\\ 96\\ 59\\ 165\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV Saaromes-Anfen-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV
	Scott County Searcy County Sebastian County Sevier County Sharp County St. Francis County St. Francis County Union County Van Buren County Washington County White County White County White County Yell County Alameda County Alameda County Amador County Butte County Calaveras County	$\begin{array}{c} 59\\ 96\\ 59\\ 165\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 146\\ 140\\ 140\\ 140\\ 140\\ 146\\ 140\\ 146\\ 146\\ 146\\ \end{array}$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA
	Scott County Searcy County Sebastian County Sevier County Sharp County Starp County Stone County Union County Washington County Washington County White County Woodruff County Yell County Alameda County Alameda County Alameda County Alameda County Butte County Butte County Calaveras County Colusa County Contra Costa County	$\begin{array}{c} 59\\ 96\\ 59\\ 165\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 146\\ 140\\ 140\\ 140\\ 140\\ 140\\ 146\\ 146\\ 146\\ 146\\ \end{array}$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA
	Scott County Searcy County Sebastian County Sevier County Sharp County Stone County Stone County Union County Washington County Washington County White County White County White County Alameda County Alameda County Alameda County Calaveras County Colusa County Contra Costa County Del Norte County El Dorado County Fresno County	$\begin{array}{c} 59\\ 96\\ 59\\ 96\\ 105\\ 96\\ 105\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 146\\ 140\\ 140\\ 140\\ 140\\ 146\\ 140\\ 61\\ \end{array}$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA
California	Scott County Searcy County Sebastian County Sevier County Sharp County Starp County Stone County Union County Washington County Washington County White County Woodruff County Yell County Alameda County Alameda County Alameda County Alameda County Butte County Butte County Colusa County Colusa County Colusa County Del Norte County El Dorado County Fresno County Glenn County	$\begin{array}{c} 59\\ 96\\ 59\\ 165\\ 96\\ 105\\ 96\\ 96\\ 96\\ 57\\ 96\\ 146\\ 140\\ 140\\ 140\\ 146\\ 140\\ 146\\ 146\\ 140\\ 146\\ 140\\ 146\\ 140\\ 146\\ 140\\ 140\\ 140\\ 140\\ 140\\ 140\\ 140\\ 140$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR SaramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA
California	Scott County Searcy County Sebastian County Sevier County Sharp County Stone County Stone County Union County Washington County Washington County Washington County Washington County Wide County Yell County Alameda County Alameda County Alameda County Butte County Calaveras County Colusa County Contra Costa County Del Norte County El Dorado County Fresno County Glenn County Humboldt County	$\begin{array}{c} 59\\ 96\\ 59\\ 96\\ 105\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 140\\ 140\\ 140\\ 140\\ 146\\ 140\\ 146\\ 140\\ 140\\ 1140\\ 140\\ 140\\ 140\\ 140\\ 14$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA
California	Scott County Searcy County Sebastian County Sevier County Sharp County Stone County Stone County Union County Washington County Washington County Washington County Woodruff County Woodruff County Yell County Alameda County Alameda County Alameda County Alameda County Colusa County Colusa County Contra Costa County Del Norte County El Dorado County Fresno County Glenn County Humboldt County Imperial County	$\begin{array}{c} 59\\ 96\\ 59\\ 165\\ 96\\ 105\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 140\\ 140\\ 140\\ 140\\ 140\\ 146\\ 140\\ 61\\ 140\\ 80\\ 80\\ 80\\ 80\\ 80\\ 80\\ 80\\ 80\\ 80\\ 8$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV
California	Scott County Searcy County Sebastian County Sevier County Sharp County Stone County Stone County Union County Washington County Washington County Washington County Woodruff County White County Alameda County Alameda County Alameda County Alameda County Calaveras County Colusa County Colusa County Contra Costa County Del Norte County El Dorado County Fresno County Glenn County Humboldt County Imperial County Inyo County	$\begin{array}{c} 59\\ 96\\ 165\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA Los Angeles-Long Beach-Riverside, CA
California	Scott County Searcy County Sebastian County Sevier County Sharp County Starp County Stone County Union County Washington County Washington County Washington County Woodruff County Woodruff County Yell County Alameda County Alameda County Alameda County Alameda County Butte County Colusa County Colusa County Colusa County Del Norte County El Dorado County Fresno County Glenn County Humboldt County Imperial County Inyo County Kern County	$\begin{array}{c} 59\\ 96\\ 59\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 9$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR SaramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA Los Angeles-Long Beach-Riverside, CA
California	Scott County Searcy County Sebastian County Sevier County Starp County Starp County Stone County Union County Washington County Washington County Washington County Washington County Wide County Yell County Alameda County Alameda County Alameda County Colusa County Colusa County Colusa County Contra Costa County Del Norte County El Dorado County El Dorado County Fresno County Glenn County Humboldt County Imperial County Imperial County Kern County Kings County	$\begin{array}{c} 59\\ 96\\ 59\\ 96\\ 105\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 140\\ 140\\ 140\\ 140\\ 146\\ 140\\ 146\\ 140\\ 61\\ 140\\ 61\\ 140\\ 61\\ 140\\ 61\\ 61\\ 61\\ 61\\ 61\\ 61\\ 61\\ 61\\ 61\\ 61$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA
California	Scott County Searcy County Sebastian County Sevier County Sharp County St. Francis County Stone County Union County Washington County Washington County Washington County Woodruff County Woodruff County Yell County Alameda County Alameda County Alameda County Alameda County Butte County Colusa County Contra Costa County Del Norte County El Dorado County Fresno County Glenn County Imperial County Imperial County Imperial County Kings County Kern County Kern County Lake County	$\begin{array}{c} 59\\ 96\\ 59\\ 96\\ 105\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV Fresno-Madera, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA San Jose-San Francisco-Oakland, CA
California	Scott County Searcy County Sebastian County Sevier County Sharp County Starp County Stone County Union County Washington County Washington County Washington County Weodruff County Weodruff County Yell County Alameda County Alameda County Alameda County Calaveras County Calaveras County Contra Costa County El Dorado County El Dorado County El Dorado County Fresno County Glenn County Humboldt County Imperial County Kern County Kern County Lake County Lake County Lake County Lake County Lake County	$\begin{array}{c} 59\\ 96\\ 59\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 9$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR SaramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA
California	Scott County Searcy County Sebastian County Sevier County Sharp County Stone County Stone County Union County Washington County Washington County Washington County Washington County Woodruff County Yell County Alameda County Alameda County Alameda County Alameda County Butte County Colusa County Colusa County Colusa County Del Norte County El Dorado County Fresno County Glenn County Humboldt County Humboldt County Inyo County Kern County Kings County Lassen County Lassen County Los Angeles County	$\begin{array}{c} 59\\ 96\\ 59\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 9$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR SaramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA
California	Scott County Searcy County Sebastian County Sevier County Starp County Starp County Stone County Union County Washington County Washington County Washington County Washington County Washington County Wide County Alameda County Alameda County Alameda County Colusa County Colusa County Colusa County Contra Costa County Del Norte County El Dorado County Fresno County Fresno County Humboldt County Imperial County Imperial County Kern County Kange County Kange County Lassen County Los Angeles County Madera County Madera County	$\begin{array}{c} 59\\ 96\\ 59\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 9$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA Los Angeles-Long Beach-Riverside, CA Fresno-Madera, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA Fresno-Madera, CA San Jose-San Francisco-Oakland, CA Fresno-Madera, CA
California	Scott County Searcy County Sebastian County Sevier County Starp County Stone County Stone County Union County Washington County Washington County Washington County White County Yell County Alameda County Alameda County Alameda County Butte County Colusa County Colusa County Contra Costa County Del Norte County El Dorado County Fresno County Glenn County Humboldt County Imperial County Imperial County Kern County Kern County Lake County Lassen County Lassen County Madera County Madera County Madera County Marin County Marin County	$\begin{array}{c} 59\\ 96\\ 105\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Fayetteville-Springdale-Rogers, AR-MO Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV Sasar Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV Sar Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV Sar Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV Sar Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV Fresno-Madera, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA Fresno-Madera, CA San Jose-San Francisco-Oakland, CA Reno-Sparks, NV Los Angeles-Long Beach-Riverside, CA Fresno-Madera, CA San Jose-San Francisco-Oakland, CA
California	Scott County Searcy County Sebastian County Sharp County Sharp County Stone County Stone County Union County Washington County Washington County Washington County White County Woodruff County Yell County Alameda County Alameda County Alameda County Calaveras County Colusa County Colusa County Contra Costa County Del Norte County El Dorado County Fresno County Glenn County Humboldt County Imperial County Kern County Kern County Kase County Lake County Lassen County Lassen County Marin County Marin County Marin County Marin County	$\begin{array}{c} 59\\ 96\\ 59\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 9$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR SaramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA San Jose-San Francisco-Oakland, CA Fresno-Madera, CA
California	Scott County Searcy County Sebastian County Sevier County Starp County Stone County Stone County Union County Washington County Washington County Washington County White County Yell County Alameda County Alameda County Alameda County Butte County Colusa County Colusa County Contra Costa County Del Norte County El Dorado County Fresno County Glenn County Humboldt County Imperial County Imperial County Kern County Kern County Lake County Lassen County Lassen County Madera County Madera County Madera County Marin County Marin County	$\begin{array}{c} 59\\ 96\\ 59\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 96\\ 9$	Fort Smith, AR-OK Little Rock-North Little Rock-Pine Bluff, AR Fort Smith, AR-OK Texarkana, TX-Texarkana, AR Little Rock-North Little Rock-Pine Bluff, AR Memphis, TN-MS-AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR Fayetteville-Springdale-Rogers, AR-MO Little Rock-North Little Rock-Pine Bluff, AR Little Rock-North Little Rock-Pine Bluff, AR San Jose-San Francisco-Oakland, CA SacramentoArden-ArcadeTruckee, CA-NV SacramentoArden-ArcadeTruckee, CA-NV Sasar Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV SaramentoArden-ArcadeTruckee, CA-NV San Jose-San Francisco-Oakland, CA San Jose-San Francisco-Oakland, CA SaramentoArden-ArcadeTruckee, CA-NV Fresno-Madera, CA San Jose-San Francisco-Oakland, CA Los Angeles-Long Beach-Riverside, CA Los Angeles-Long Beach-Riverside, CA Fresno-Madera, CA San Jose-San Francisco-Oakland, CA Reno-Sparks, NV Los Angeles-Long Beach-Riverside, CA Fresno-Madera, CA San Jose-San Francisco-Oakland, CA

	Modoc County	135	Redding, CA
	Mono County		Los Angeles-Long Beach-Riverside, CA
	Monterey County		San Jose-San Francisco-Oakland, CA
	Napa County		San Jose-San Francisco-Oakland, CA
	Nevada County		SacramentoArden-ArcadeTruckee, CA-NV
	Orange County		Los Angeles-Long Beach-Riverside, CA
	Placer County		SacramentoArden-ArcadeTruckee, CA-NV
	Plumas County		Reno-Sparks, NV
	Riverside County Sacramento County		Los Angeles-Long Beach-Riverside, CA SacramentoArden-ArcadeTruckee, CA-NV
	San Benito County		San Jose-San Francisco-Oakland, CA
	San Bernardino County		Los Angeles-Long Beach-Riverside, CA
	San Diego County		San Diego-Carlsbad-San Marcos, CA
	San Francisco County		San Jose-San Francisco-Oakland, CA
	San Joaquin County		San Jose-San Francisco-Oakland, CA
California	San Luis Obispo County		Los Angeles-Long Beach-Riverside, CA
Cumorina	San Mateo County		San Jose-San Francisco-Oakland, CA
	Santa Barbara County		Los Angeles-Long Beach-Riverside, CA
	Santa Clara County		San Jose-San Francisco-Oakland, CA
	Santa Cruz County		San Jose-San Francisco-Oakland, CA
	Shasta County		Redding, CA
	Sierra County		Reno-Sparks, NV
	Siskiyou County	135	Redding, CA
	Solano County	146	San Jose-San Francisco-Oakland, CA
	Sonoma County	146	San Jose-San Francisco-Oakland, CA
	Stanislaus County	146	San Jose-San Francisco-Oakland, CA
	Sutter County	140	SacramentoArden-ArcadeTruckee, CA-NV
	Tehama County		Redding, CA
	Trinity County		San Jose-San Francisco-Oakland, CA
	Tulare County		Fresno-Madera, CA
	Tuolumne County		San Jose-San Francisco-Oakland, CA
	Ventura County		Los Angeles-Long Beach-Riverside, CA
	Yolo County		SacramentoArden-ArcadeTruckee, CA-NV
	Yuba County		SacramentoArden-ArcadeTruckee, CA-NV
	Adams County		Denver-Aurora-Boulder, CO
	Alamosa County		Denver-Aurora-Boulder, CO
	Arapahoe County		Denver-Aurora-Boulder, CO
	Archuleta County		Farmington, NM
	Baca County		Pueblo, CO
	Bent County		Pueblo, CO
	Boulder County		Denver-Aurora-Boulder, CO
	Broomfield County		Denver-Aurora-Boulder, CO
	Chaffee County		Denver-Aurora-Boulder, CO
	Cheyenne County Clear Creek County		Colorado Springs, CO Denver-Aurora-Boulder, CO
	Conejos County		Denver-Aurora-Boulder, CO
	Costilla County		Denver-Aurora-Boulder, CO
	Crowley County		Pueblo, CO
	Custer County		Colorado Springs, CO
	Delta County		Denver-Aurora-Boulder, CO
	Denver County		Denver-Aurora-Boulder, CO
	Dolores County		Farmington, NM
	Douglas County		Denver-Aurora-Boulder, CO
	Eagle County		Denver-Aurora-Boulder, CO
	El Paso County		Colorado Springs, CO
	Elbert County		Denver-Aurora-Boulder, CO
			Colorado Springs, CO
	Fremont County	36	
			Denver-Aurora-Boulder, CO
	Fremont County Garfield County Gilpin County	45 45	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
	Fremont County Garfield County	45 45 45	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
	Fremont County Garfield County Gilpin County	45 45 45	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County	45 45 45 45 56	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM
	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County Huerfano County	45 45 45 45 56 132	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County Huerfano County Jackson County	45 45 45 45 56 132 45	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County Huerfano County Jackson County Jefferson County	45 45 45 45 56 132 45 45	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County Huerfano County Jackson County Jefferson County Kiowa County	45 45 45 56 132 45 45 45 132	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County Huerfano County Jackson County Jefferson County Kiowa County Kit Carson County	45 45 45 56 132 45 45 45 132 36	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hinsdale County Huerfano County Jackson County Jefferson County Kiowa County Kit Carson County La Plata County	45 45 45 56 132 45 45 45 132 36 56	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM
Colorado	Fremont County Garfield County Gilpin County Grand County Hinsdale County Huerfano County Jackson County Jefferson County Kiowa County Kit Carson County La Plata County La Plata County	$ \begin{array}{r} 45 \\ 45 \\ 45 \\ 45 \\ 56 \\ 132 \\ 45 \\ 45 \\ 132 \\ 36 \\ 56 \\ 45 \\ \end{array} $	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hinsdale County Huerfano County Jackson County Jackson County Kiowa County Kit Carson County La Plata County La Plata County Larimer County	$ \begin{array}{r} 45 \\ 45 \\ 45 \\ 45 \\ 56 \\ 132 \\ 45 \\ 132 \\ 36 \\ 56 \\ 45 \\ 45 \\ \end{array} $	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County Huerfano County Jackson County Jackson County Kiowa County Kit Carson County La Plata County Larimer County Las Animas County	$ \begin{array}{r} 45 \\ 45 \\ 45 \\ 45 \\ 56 \\ 132 \\ 45 \\ 45 \\ 132 \\ 36 \\ 56 \\ 45 \\ 45 \\ 45 \\ 45 \\ 45 \\ 45 \\ 132 \\ $	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hinsdale County Huerfano County Jackson County Jackson County Kiowa County Kit Carson County La Plata County Lake County Larimer County Las Animas County Lincoln County	$\begin{array}{c} 45 \\ 45 \\ 45 \\ 56 \\ 132 \\ 45 \\ 45 \\ 132 \\ 36 \\ 56 \\ 45 \\ 132 \\ 36 \\ 56 \\ 45 \\ 132 \\ 36 \\ 36 \end{array}$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Colorado Springs, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hinsdale County Huerfano County Jackson County Jackson County Kiowa County Kit Carson County La Plata County Lake County Larimer County Las Animas County Lincoln County Logan County	$\begin{array}{c} 45 \\ 45 \\ 45 \\ 45 \\ 56 \\ 132 \\ 45 \\ 45 \\ 132 \\ 36 \\ 56 \\ 45 \\ 45 \\ 132 \\ 36 \\ 56 \\ 45 \\ 132 \\ 36 \\ 45 \\ \end{array}$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Hustale County Jackson County Jackson County Kiowa County Kit Carson County La Plata County Lake County Larimer County Las Animas County Lincoln County Logan County Mesa County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 45\\ 132\\ 36\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ \end{array}$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Husdale County Jackson County Jackson County Jackson County Kiowa County Kit Carson County La Plata County Larimer County Las Animas County Lincoln County Logan County Mesa County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 45\\ 132\\ 36\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ \end{array}$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hinsdale County Huerfano County Jackson County Jackson County Kiowa County Kit Carson County La Plata County Larimer County Larimer County Las Animas County Lincoln County Logan County Mesa County Mineral County Mineral County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 132\\ 36\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hinsdale County Huerfano County Jackson County Jackson County Lafferson County Kit Carson County La Plata County La Plata County Las Animas County Lincoln County Logan County Mineral County Montezuma County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 56\\ 56\\ \end{array}$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM
Colorado	Fremont County Garfield County Gilpin County Grand County Hinsdale County Huerfano County Jackson County Jackson County Jackson County Lafferson County Kit Carson County La Plata County La Plata County Las Animas County Las Animas County Logan County Mineral County Moftat County Montrose County Montrose County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 132\\ 36\\ 55\\ 132\\ 36\\ 55\\ 45\\ 132\\ 36\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 55\\ 6\\ 55\\ 6\\ 45\\ 45\\ \end{array}$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hundreit County Huerfano County Jackson County Jackson County Kit Carson County Kit Carson County La Plata County Lake County Larimer County Las Animas County Logan County Mesa County Mineral County Montrose County Montrose County Montrose County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hunstan County Huerfano County Jackson County Jackson County Kit Carson County Kit Carson County La Plata County Larimer County Las Animas County Lincoln County Logan County Mineral County Mineral County Montezuma County Montrose County Mortose County Mortose County Mortose County Mortose County Mortose County Mortose County Mortose County Mortose County Mortose County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 132\\ 36\\ 56\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 56\\ 45\\ 45\\ 56\\ 45\\ 132\\ 36\\ 132\\ 132\\ 132\\ 132\\ 132\\ 132\\ 132\\ 132$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Denver-Aurora-Boulder, CO Pueblo, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hinsdale County Huerfano County Jackson County Jackson County Kiowa County Kiowa County La Plata County LaPlata County Las Animas County Las Animas County Lincoln County Logan County Mineral County Montezuma County Montezuma County Montrose County Montrose County Montrose County Otero County Ouray County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 56\\ 45\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Husdale County Jackson County Jackson County Jackson County Jackson County Jackson County Lafferson County Lafferson County La Plata County La Plata County Las Animas County Las Animas County Logan County Mesa County Monteral County Montrose County Montrose County Morgan County Ouray County Ouray County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hundreit County Huerfano County Jackson County Jackson County Kit Carson County Kit Carson County La Plata County Larimer County Laske County Larimer County Logan County Moineral County Montrose County Montrose County Montrose County Mortgan County Mortgan County Mortgan County Otero County Otero County Ouray County Park County Park County Park County Park County Park County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 45\\ 132\\ 36\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hunstale County Huerfano County Jackson County Jackson County Kit Carson County Kit Carson County La Plata County Larimer County Las Animas County Lincoln County Logan County Mineral County Mineral County Montezuma County Montrose County Montrose County Morta County Otero County Otero County Park County Phillips County Phillips County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 132\\ 36\\ 56\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 56\\ 45\\ 45\\ 132\\ 45\\ 56\\ 45\\ 132\\ 45\\ 45\\ 132\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County Huerfano County Jackson County Jackson County Jackson County Lafferson County Lafferson County La Plata County La Plata County Lase County Lase County Lase County Lase County Lase County Logan County Mosa County Montezuma County Montezuma County Montrose County Morgan County Ouray County Ouray County Park County Phillips County Prowers County Prowers County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 56\\ 45\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County Huerfano County Jackson County Jackson County Jackson County Lafferson County Lafferson County La Plata County La Plata County Lake County Las Animas County Logan County Mesa County Montezuma County Montezuma County Montrose County Montezuma County Ouray County Ouray County Park County Pillips County Pitkin County Prowers County Pueblo County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hundreit County Huerfano County Jackson County Jackson County Kit Carson County Kit Carson County La Plata County La Plata County Lake County Larimer County Las Animas County Logan County Moineral County Montrose County Montrace County Montrace County Montrose County Montrose County Mortgan County Otero County Otero County Park County Prowers County Prowers County Pueblo County Rio Blanco County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 45\\ 45\\ 132\\ 36\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Hunstan County Huerfano County Jackson County Jackson County Kit Carson County Lasen County Lasen County Lasen County Lasen County Lasen County Lasen County Lasen County Logan County Mineral County Montezuma County Montrose County Montrose County Montrose County Morta County Ouray County Park County Phillips County Pitkin County Prowers County Prowers County Rio Blanco County Rio Grande County Rio Grande County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 132\\ 45\\ 132\\ 36\\ 56\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 56\\ 45\\ 45\\ 132\\ 45\\ 132\\ 45\\ 132\\ 45\\ 132\\ 45\\ 132\\ 45\\ 45\\ 132\\ 45\\ 45\\ 132\\ 45\\ 45\\ 132\\ 45\\ 45\\ 132\\ 45\\ 45\\ 132\\ 45\\ 45\\ 45\\ 132\\ 45\\ 45\\ 132\\ 132\\ 45\\ 45\\ 132\\ 132\\ 45\\ 132\\ 132\\ 132\\ 132\\ 132\\ 132\\ 132\\ 132$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County Huerfano County Jackson County Jackson County Jackson County Lafferson County Lafferson County La Plata County La Plata County Lase County Mofat County Montezuma County Montrose County Morgan County Ouray County Ouray County Park County Phillips County Prowers County Pueblo County Rio Blanco County Rio Grande County Rio Grande County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Husdale County Jackson County Jackson County Jackson County Lafferson County Lafferson County Lafferson County Lafferson County La Plata County La Plata County Lake County Las Animas County Logan County Mosa County Moffat County Moffat County Moffat County Moffat County Mortezuma County Mortezuma County Mortez County Ouray County Park County Pillips County Prowers County Prowers County Problo County Rio Blanco County Rio Grande County Routt County Routt County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Gunnison County Hiusdale County Huerfano County Jackson County Jackson County Kit Carson County Kit Carson County Lase County Lase County Lase County Lase County Lase County Logan County Montrose County Montral County Montral County Montrose County Montrose County Montrose County Morgan County Otero County Otero County Park County Prowers County Pitkin County Pitkin County Pitkin County Rio Blanco County Rio Grande County Rio Grande County Rio Grande County Routt County Rio Grande County Routt County Routt County Routt County Rio Grande County Saguache County San Juan County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 132\\ 36\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County Huerfano County Jackson County Jackson County Jackson County Lafferson County Kit Carson County La Plata County Larimer County Las Animas County Lias Animas County Mosa County Mosa County Morgan County Morfat County Mortrose County Mortrose County Ouray County Park County Phillips County Prowers County Prowers County Rio Blanco County Rio Grande County Routt County San Juan County San Miguel County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 132\\ 45\\ 132\\ 36\\ 56\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 132\\ 45\\ 45\\ 132\\ 45\\ 132\\ 45\\ 132\\ 45\\ 132\\ 45\\ 132\\ 45\\ 45\\ 132\\ 45\\ 45\\ 132\\ 45\\ 45\\ 132\\ 45\\ 45\\ 45\\ 132\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Grand County Gunnison County Hinsdale County Huerfano County Jackson County Jackson County Lafferson County Lafferson County Lafferson County Lafferson County La Plata County La Plata County Lase County Lase County Lase County Lase County Lase County Lase County Mofat County Montezuma County Montezuma County Montrose County Morgan County Ouray County Ouray County Park County Phillips County Pitkin County Rio Grande County Rio Grande County Rio Grande County Rio Grande County Routt County Saguache County San Juan County San Juan County San Juan County San Juan County San	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Ginnison County Huerfano County Huerfano County Jackson County Jackson County Jackson County Kit Carson County Lafferson County Lafferson County Lafferson County La Plata County Lake County Larimer County Las County Mesa County Moneral County Moffat County Montrose County Montrose County Otero County Ouray County Pirkin County Prowers County Prowers County Rio Blanco County Rio Blanco County Rio Grande County Rio Grande County Rio Grande County San Juan County San Miguel County San Miguel County San Miguel County Sedgwick County Summit County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 132\\ 36\\ 56\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
	Fremont CountyGarfield CountyGilpin CountyGinnison CountyHuarfano CountyHuerfano CountyJackson CountyJackson CountyJackson CountyKit Carson CountyLaber CountyLaber CountyLaber CountyLaber CountyLas Animas CountyLas Animas CountyLas Animas CountyLas Animas CountyLas Animas CountyMoreal CountyMoreal CountyMoffat CountyMorfat CountyMortose CountyMortose CountyOuray CountyPark CountyPitkin CountyPitkin CountyPitkin CountyRio Blanco CountyRio Blanco CountyRoutt CountySan Juan CountySan Juan CountySummit CountySummit CountyTeller County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 45\\ 132\\ 45\\ 132\\ 36\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO
Colorado	Fremont County Garfield County Gilpin County Ginnison County Huerfano County Huerfano County Jackson County Jackson County Jackson County Kit Carson County Lafferson County Lafferson County Lafferson County La Plata County Lake County Larimer County Las County Mesa County Moneral County Moffat County Montrose County Montrose County Otero County Ouray County Pirkin County Prowers County Prowers County Rio Blanco County Rio Blanco County Rio Grande County Rio Grande County Rio Grande County San Juan County San Miguel County San Miguel County San Miguel County Sedgwick County Summit County	$\begin{array}{c} 45\\ 45\\ 45\\ 45\\ 56\\ 132\\ 45\\ 132\\ 36\\ 56\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45\\ 45$	Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Farmington, NM Pueblo, CO Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO Pueblo, CO Colorado Springs, CO Farmington, NM Denver-Aurora-Boulder, CO Denver-Aurora-Boulder, CO

	Yuma County	45 Denver-Aurora-Boulder, CO
	Fairfield County Hartford County	118 New York-Newark-Bridgeport, NY-NJ-CT-PA 72 Hartford-West Hartford-Willimantic, CT
	Litchfield County	118 New York-Newark-Bridgeport, NY-NJ-CT-PA
o	Middlesex County	72 Hartford-West Hartford-Willimantic, CT
Connecticut	New Haven County	118 New York-Newark-Bridgeport, NY-NJ-CT-PA
	New London County	72 Hartford-West Hartford-Willimantic, CT
	Tolland County	72 Hartford-West Hartford-Willimantic, CT
	Windham County	72 Hartford-West Hartford-Willimantic, CT
Delaware	Kent County New Castle County	49 Dover, DE 127 Philadelphia-Camden-Vineland, PA-NJ-DE-MD
Delaware	Sussex County	49 Dover, DE
Dist. Of Columbia		174 Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Alachua County	62 Gainesville, FL
	Baker County	79 Jacksonville, FL
	Bay County	123 Panama City-Lynn Haven, FL
	Bradford County	62 Gainesville, FL
	Brevard County Broward County	121 Orlando-The Villages, FL 106 Miami-Fort Lauderdale-Miami Beach, FL
	Calhoun County	123 Panama City-Lynn Haven, FL
	Charlotte County	148 Sarasota-Bradenton-Venice, FL
	Citrus County	121 Orlando-The Villages, FL
	Clay County	79 Jacksonville, FL
	Collier County	148 Sarasota-Bradenton-Venice, FL
	Columbia County	62 Gainesville, FL
	DeSoto County Dixie County	148 Sarasota-Bradenton-Venice, FL 62 Gainesville, FL
	Duval County	79 Jacksonville, FL
	Escambia County	125 Pensacola-Ferry Pass-Brent, FL
	Flagler County	121 Orlando-The Villages, FL
	Franklin County	163 Tallahassee, FL
	Gadsden County	163 Tallahassee, FL
	Gilchrist County	62 Gainesville, FL 106 Miami Fort Laudardala Miami Basah FL
	Glades County Gulf County	106 Miami-Fort Lauderdale-Miami Beach, FL 123 Panama City-Lynn Haven, FL
	Hamilton County	3 Albany, GA
	Hardee County	121 Orlando-The Villages, FL
	Hendry County	106 Miami-Fort Lauderdale-Miami Beach, FL
	Hernando County	164 Tampa-St. Petersburg-Clearwater, FL
	Highlands County	121 Orlando-The Villages, FL
	Hillsborough County	164 Tampa-St. Petersburg-Clearwater, FL
	Holmes County Indian River County	123 Panama City-Lynn Haven, FL 106 Miami-Fort Lauderdale-Miami Beach, FL
	Jackson County	123 Panama City-Lynn Haven, FL
	Jefferson County	163 Tallahassee, FL
	Lafayette County	62 Gainesville, FL
Florida	Lake County	121 Orlando-The Villages, FL
	Lee County	148 Sarasota-Bradenton-Venice, FL
	Leon County	163 Tallahassee, FL
	Levy County Liberty County	62 Gainesville, FL 163 Tallahassee, FL
	Madison County	3 Albany, GA
	Manatee County	148 Sarasota-Bradenton-Venice, FL
	Marion County	121 Orlando-The Villages, FL
	Martin County	106 Miami-Fort Lauderdale-Miami Beach, FL
	Miami-Dade County	106 Miami-Fort Lauderdale-Miami Beach, FL
	Monroe County	106 Miami-Fort Lauderdale-Miami Beach, FL
	Nassau County Okaloosa County	79 Jacksonville, FL 125 Pensacola-Ferry Pass-Brent, FL
	Okeechobee County	106 Miami-Fort Lauderdale-Miami Beach, FL
	Orange County	121 Orlando-The Villages, FL
	Osceola County	121 Orlando-The Villages, FL
	Palm Beach County	106 Miami-Fort Lauderdale-Miami Beach, FL
	Pasco County	164 Tampa-St. Petersburg-Clearwater, FL
	Pinellas County	164 Tampa-St. Petersburg-Clearwater, FL
	Polk County Putnam County	121 Orlando-The Villages, FL 79 Jacksonville, FL
	Santa Rosa County	125 Pensacola-Ferry Pass-Brent, FL
	Sarasota County	148 Sarasota-Bradenton-Venice, FL
	Seminole County	121 Orlando-The Villages, FL
	St. Johns County	79 Jacksonville, FL
	St. Lucie County	106 Miami-Fort Lauderdale-Miami Beach, FL
	Sumter County Suwannee County	121 Orlando-The Villages, FL 62 Gainesville, FL
	Taylor County	163 Tallahassee, FL
	Union County	62 Gainesville, FL
	Volusia County	121 Orlando-The Villages, FL
	Wakulla County	163 Tallahassee, FL
	Walton County	125 Pensacola-Ferry Pass-Brent, FL
	Washington County	123 Panama City-Lynn Haven, FL
	Appling County Atkinson County	100 Macon-Warner Robins-Fort Valley, GA 79 Jacksonville, FL
	Bacon County	79 Jacksonville, FL
	Baker County	3 Albany, GA
	Baldwin County	100 Macon-Warner Robins-Fort Valley, GA
Georgia	Banks County	11 Atlanta-Sandy Springs-Gainesville, GA-AL
Jeorgia	Barrow County	11 Atlanta-Sandy Springs-Gainesville, GA-AL
	Bartow County	11 Atlanta-Sandy Springs-Gainesville, GA-AL
	Ben Hill County	3 Albany, GA
	Berrien County Bibb County	3 Albany, GA 100 Macon-Warner Robins-Fort Valley, GA
	Bibb County Bleckley County	100 Macon-Warner Robins-Fort Valley, GA 100 Macon-Warner Robins-Fort Valley, GA
	Brantley County	79 Jacksonville, FL
	Brooks County	3 Albany, GA
	Bryan County	149 Savannah-Hinesville-Fort Stewart, GA
	Bulloch County Burke County	149 Savannah-Hinesville-Fort Stewart, GA 12 Augusta-Richmond County, GA-SC

	Butts County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Calhoun County		Albany, GA
	Camden County Candler County		Jacksonville, FL Savannah-Hinesville-Fort Stewart, GA
	Carroll County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Catoosa County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Charlton County		Jacksonville, FL
	Chatham County	149	Savannah-Hinesville-Fort Stewart, GA
	Chattahoochee County		Columbus-Auburn-Opelika, GA-AL
	Chattooga County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Cherokee County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Clarke County		Atlanta-Sandy Springs-Gainesville, GA-AL Albany, GA
	Clay County Clayton County		Albany, GA Atlanta-Sandy Springs-Gainesville, GA-AL
	Clinch County		Jacksonville, FL
	Cobb County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Coffee County		Jacksonville, FL
	Colquitt County	3	Albany, GA
	Columbia County		Augusta-Richmond County, GA-SC
	Cook County		Albany, GA
	Coweta County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Crawford County		Macon-Warner Robins-Fort Valley, GA
	Crisp County Dade County		Albany, GA Atlanta-Sandy Springs-Gainesville, GA-AL
	Dawson County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Decatur County		Tallahassee. FL
	DeKalb County	11	Atlanta-Sandy Springs-Gainesville, GA-AL
	Dodge County		Macon-Warner Robins-Fort Valley, GA
	Dooly County		Albany, GA
	Dougherty County		Albany, GA
	Douglas County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Early County Early County		Tallahassee, FL
	Echols County Effingham County		Albany, GA Savannah-Hinesville-Fort Stewart, GA
	Elbert County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Emanuel County		Savannah-Hinesville-Fort Stewart, GA
	Evans County		Savannah-Hinesville-Fort Stewart, GA
	Fannin County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Fayette County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Floyd County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Forsyth County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Franklin County		Atlanta-Sandy Springs-Gainesville, GA-AL
Georgia	Fulton County Gilmer County		Atlanta-Sandy Springs-Gainesville, GA-AL Atlanta-Sandy Springs-Gainesville, GA-AL
0	Glascock County		Augusta-Richmond County, GA-SC
	Glynn County		Jacksonville, FL
	Gordon County	11	Atlanta-Sandy Springs-Gainesville, GA-AL
	Grady County	163	Tallahassee, FL
	Greene County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Gwinnett County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Habersham County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Hall County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Hancock County		Macon-Warner Robins-Fort Valley, GA Atlanta-Sandy Springs-Gainesville, GA-AL
	Haralson County Harris County	11	Columbus-Auburn-Opelika, GA-AL
	Hart County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Heard County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Henry County	1.1	Atlanta-Sandy Springs-Gainesville, GA-AL
	Houston County		Macon-Warner Robins-Fort Valley, GA
	Irwin County		Albany, GA
	Jackson County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Jasper County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Jeff Davis County		Macon-Warner Robins-Fort Valley, GA Augusta-Richmond County, GA-SC
	Jefferson County Jenkins County		Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA
	Johnson County		Macon-Warner Robins-Fort Valley, GA
	Jones County		Macon-Warner Robins-Fort Valley, GA
	Lamar County	11	Atlanta-Sandy Springs-Gainesville, GA-AL
	Lanier County	3	Albany, GA
	Laurens County		Macon-Warner Robins-Fort Valley, GA
	Lee County		Albany, GA
	Liberty County Lincoln County		Savannah-Hinesville-Fort Stewart, GA Augusta-Richmond County, GA-SC
	Lincoln County Long County		Savannah-Hinesville-Fort Stewart, GA
	Long County	3	Albany, GA
	Lumpkin County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Macon County		Macon-Warner Robins-Fort Valley, GA
	Madison County	11	Atlanta-Sandy Springs-Gainesville, GA-AL
	Marion County		Columbus-Auburn-Opelika, GA-AL
	McDuffie County		Augusta-Richmond County, GA-SC
	McIntosh County		Jacksonville, FL Atlanta Sandy Springe Gainesville, GA AI
	Meriwether County Miller County		Atlanta-Sandy Springs-Gainesville, GA-AL Tallahassee, FL
	Mitchell County		Albany, GA
	Monroe County		Macon-Warner Robins-Fort Valley, GA
	Montgomery County		Savannah-Hinesville-Fort Stewart, GA
	Morgan County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Murray County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Muscogee County		Columbus-Auburn-Opelika, GA-AL
	Newton County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Oconee County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Oglethorpe County Boulding County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Paulding County Peach County		Atlanta-Sandy Springs-Gainesville, GA-AL Macon-Warner Robins-Fort Valley, GA
	Pickens County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Pierce County		Jacksonville, FL
	Pike County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Tike County		

1	Polk County	11	Atlanta-Sandy Springs-Gainesville, GA-AL
	Pulaski County		Macon-Warner Robins-Fort Valley, GA
	Putnam County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Quitman County		Dothan-Enterprise-Ozark, AL
	Rabun County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Randolph County	3	Albany, GA Augusta-Richmond County, GA-SC
	Richmond County Rockdale County		Augusta-Kichmond County, GA-SC Atlanta-Sandy Springs-Gainesville, GA-AL
	Schley County	3	Albany, GA
	Screven County	149	Savannah-Hinesville-Fort Stewart, GA
	Seminole County		Tallahassee, FL
	Spalding County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Stephens County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Stewart County		Columbus-Auburn-Opelika, GA-AL
	Sumter County	3	Albany, GA
	Talbot County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Taliaferro County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Tattnall County		Savannah-Hinesville-Fort Stewart, GA
	Taylor County		Macon-Warner Robins-Fort Valley, GA
Georgia	Telfair County		Macon-Warner Robins-Fort Valley, GA
otorgia	Terrell County		Albany, GA
	Thomas County		Tallahassee, FL
	Tift County		Albany, GA
	Toombs County		Savannah-Hinesville-Fort Stewart, GA
	Towns County	11	
	Treutlen County		Savannah-Hinesville-Fort Stewart, GA
1	Troup County		Atlanta-Sandy Springs-Gainesville, GA-AL
1	Turner County	3	Albany, GA
1	Twiggs County		Macon-Warner Robins-Fort Valley, GA
1	Union County		Atlanta-Sandy Springs-Gainesville, GA-AL
1	Upson County		Atlanta-Sandy Springs-Gainesville, GA-AL
1	Walker County		Atlanta-Sandy Springs-Gainesville, GA-AL
1	Walton County		Atlanta-Sandy Springs-Gainesville, GA-AL
1	Ware County		Jacksonville, FL
1	Warren County		Augusta-Richmond County, GA-SC
1	Washington County		Macon-Warner Robins-Fort Valley, GA
	Wayne County		Jacksonville, FL
	Webster County	39	Columbus-Auburn-Opelika, GA-AL
	Wheeler County		Macon-Warner Robins-Fort Valley, GA
	White County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Whitfield County	11	Atlanta-Sandy Springs-Gainesville, GA-AL
	Wilcox County	3	Albany, GA
	Wilkes County	11	Atlanta-Sandy Springs-Gainesville, GA-AL
	Wilkinson County		Macon-Warner Robins-Fort Valley, GA
	Worth County	3	Albany, GA
Hawaii	All Counties	74	Honolulu, HI
	Ada County	21	Boise City-Nampa, ID
	Adams County	21	Boise City-Nampa, ID
	Bannock County		Idaho Falls-Blackfoot, ID
	Bear Lake County	77	Idaho Falls-Blackfoot, ID
	Benewah County		Spokane, WA
	Bingham County		Idaho Falls-Blackfoot, ID
	Blaine County		Twin Falls, ID
	Boise County		Boise City-Nampa, ID
	Bonner County		Spokane, WA
	Bonneville County		Idaho Falls-Blackfoot, ID
	Boundary County		Spokane, WA
	Butte County		Idaho Falls-Blackfoot, ID
	Camas County		Twin Falls, ID
	Canyon County		Boise City-Nampa, ID
1	Caribou County		Idaho Falls-Blackfoot, ID
1	Cassia County		Twin Falls, ID Ideks Falls, Blockfoot, ID
1	Clark County		Idaho Falls-Blackfoot, ID
1	Clearwater County		Lewiston, ID-WA
1	Custer County		Idaho Falls-Blackfoot, ID
1	Elmore County	21	Boise City-Nampa, ID Salt Lake City-Ogden-Clearfield, UT
1	Franklin County	142	
	Fremont Country		Idaho Falls Blackfoot ID
Idaho	Fremont County Gem County	77	Idaho Falls-Blackfoot, ID Boise City-Nampa ID
Idaho	Gem County	77 21	Boise City-Nampa, ID
Idaho	Gem County Gooding County	77 21 172	Boise City-Nampa, ID Twin Falls, ID
Idaho	Gem County Gooding County Idaho County	77 21 172 93	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA
Idaho	Gem County Gooding County Idaho County Jefferson County	77 21 172 93 77	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County	77 21 172 93 77 172	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County	77 21 172 93 77 172 157	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County	77 21 172 93 77 172 157 157	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Lemhi County	77 21 172 93 77 172 157 157 77	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Lemhi County Lewis County	77 21 172 93 77 172 157 157 77 93	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Lemhi County Lewis County Lincoln County	77 21 172 93 77 172 157 157 77 93 172	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Lemhi County Lewis County Lincoln County Madison County	77 21 172 93 77 172 157 157 77 77 93 172 77	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Lemhi County Lewis County Lincoln County Madison County Minidoka County	77 21 172 93 77 172 157 157 77 93 172 77 172	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Twin Falls, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Latah County Lewhi County Lewis County Lincoln County Madison County Minidoka County Nez Perce County	77 21 93 77 172 157 77 93 172 93 172 77 77 93 172 93	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Lemhi County Lewis County Lincoln County Madison County Minidoka County	77 21 172 93 77 172 157 157 77 93 172 77 77 93 172 93 142	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Twin Falls, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Latah County Lemhi County Lewis County Lincoln County Madison County Minidoka County Nez Perce County Oneida County	77 21 172 93 77 172 157 157 77 93 172 77 77 93 172 93 142	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Latah County Lewis County Lewis County Lincoln County Madison County Minidoka County Nez Perce County Oneida County Owyhee County	77 21 172 93 77 172 157 77 93 172 77 77 172 93 172 93 142 21 21	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Latah County Lewhi County Lewis County Lincoln County Minidoka County Minidoka County Nez Perce County Oneida County Owyhee County Payette County Power County	77 21 172 93 77 172 157 157 157 177 93 172 93 172 93 142 21 21 77	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID Idaho Falls-Blackfoot, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Latah County Lemhi County Lemhi County Lincoln County Minidoka County Nez Perce County Oneida County Oneida County Payette County Power County Shoshone County	77 21 172 93 77 172 157 77 93 172 93 172 93 142 21 21 77 77 172	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID Boise City-Nampa, ID Idaho Falls-Blackfoot, ID Spokane, WA
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Latah County Lewis County Lincoln County Madison County Minidoka County Nez Perce County Oneida County Owyhee County Payette County Power County Shoshone County Teton County	77 21 172 93 77 172 157 77 93 172 77 172 93 142 21 21 21 77 75 26	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID Boise City-Nampa, ID Idaho Falls-Blackfoot, ID Spokane, WA Casper, WY
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Latah County Lemhi County Lemhi County Lewis County Madison County Minidoka County Nez Perce County Oneida County Owyhee County Payette County Power County Shoshone County Teton County Twin Falls County	77 21 172 93 77 172 157 77 93 172 77 77 172 93 172 293 142 21 21 21 77 77 157 72 6 6	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID Idaho Falls-Blackfoot, ID Spokane, WA Casper, WY Twin Falls, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Latah County Lemhi County Lewis County Lincoln County Minidoka County Minidoka County Nez Perce County Oneida County Oneida County Owyhee County Payette County Power County Shoshone County Teton County Twin Falls County Valley County	77 21 172 93 77 172 157 77 93 172 93 172 93 172 21 21 77 77 172 93 142 21	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID Idaho Falls-Blackfoot, ID Spokane, WA Casper, WA Casper, WY Twin Falls, ID Boise City-Nampa, ID Boise City-Nampa, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Latah County Lemhi County Lembi County Lincoln County Madison County Minidoka County Nez Perce County Oneida County Payette County Power County Shoshone County Teton County Twin Falls County Valley County Washington County	$\begin{array}{c} 77\\ 21\\ 172\\ 93\\ 77\\ 172\\ 157\\ 157\\ 77\\ 93\\ 172\\ 77\\ 172\\ 93\\ 142\\ 21\\ 21\\ 21\\ 77\\ 157\\ 26\\ 172\\ 21\\ 21\\ 21\\ 21\\ 21\\ 21\\ 21\\ 21\\ 21\\ 2$	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID Boise City-Nampa, ID Spokane, WA Casper, WY Twin Falls, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Latah County Latah County Lewhi County Lewhi County Madison County Maidson County Minidoka County Oneida County Oneida County Payette County Power County Shoshone County Twin Falls County Valley County Washington County	77 21 172 93 77 157 77 157 77 93 172 93 77 157 77 93 172 93 142 21 21 21 77 157 26 172 21 21 157 26 172 21 21 21 158	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID Boise City-Nampa, ID Spokane, WA Casper, WY Twin Falls, ID Boise City-Nampa, ID
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Latah County Lemhi County Lewis County Minidoka County Madison County Madison County Modison County Medison County Oneida County Owyhee County Payette County Power County Twin Falls County Valley County Washington County Adams County Alexander County	77 21 172 93 77 172 157 77 93 172 77 77 172 93 172 21 21 21 21 21 21 21 21 21 21 25 26 172 21 21 21 21 21 25 26 25 25	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID Idaho Falls-Blackfoot, ID Spokane, WA Casper, WY Twin Falls, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Springfield, IL Cape Girardeau-Jackson, MO-IL
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Lemhi County Lemhi County Lewis County Minioka County Minioka County Oneida County Oneida County Payette County Power County Shoshone County Twin Falls County Valley County Valley County Adams County Alexander County Alexander County	$\begin{array}{c} 77\\ 21\\ 172\\ 93\\ 77\\ 172\\ 157\\ 77\\ 93\\ 172\\ 93\\ 172\\ 93\\ 172\\ 93\\ 172\\ 21\\ 21\\ 21\\ 21\\ 77\\ 157\\ 26\\ 21\\ 21\\ 21\\ 158\\ 25\\ 160\\ \end{array}$	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID Boise City-Nampa, ID Idaho Falls-Blackfoot, ID Spokane, WA Casper, WA Casper, WY Twin Falls, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Springfield, IL Cape Girardeau-Jackson, MO-IL St. Louis-St. Charles-Farmington, MO-IL
Idaho	Gem County Gooding County Idaho County Jefferson County Jefferson County Lerome County Kootenai County Latah County Lerhi County Lerhi County Lerone County Madison County Maidson County Minidoka County Nez Perce County Oneida County Payette County Power County Shoshone County Teton County Twin Falls County Washington County Adams County Alexander County Bond County Bond County	$\begin{array}{c} 77\\ 21\\ 172\\ 93\\ 77\\ 172\\ 157\\ 157\\ 77\\ 93\\ 172\\ 77\\ 172\\ 23\\ 142\\ 21\\ 21\\ 21\\ 21\\ 21\\ 21\\ 157\\ 26\\ 172\\ 26\\ 172\\ 21\\ 158\\ 25\\ 160\\ 32\\ \end{array}$	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID Boise City-Nampa, ID Idaho Falls-Blackfoot, ID Spokane, WA Casper, WY Twin Falls, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Spokane, WA Casper, WY Twin Falls, ID Boise City-Nampa, ID Spokane, IL Cape Girardeau-Jackson, MO-IL St. Louis-St. Charles-Farmington, MO-IL Chicago-Naperville-Michigan City, IL-IN-WI
Idaho	Gem County Gooding County Idaho County Jefferson County Jerome County Kootenai County Latah County Lemhi County Lemhi County Lewis County Minioka County Minioka County Oneida County Oneida County Payette County Power County Shoshone County Twin Falls County Valley County Valley County Adams County Alexander County Alexander County	77 21 172 93 77 157 77 157 77 93 172 93 77 157 77 132 71 93 142 21 21 21 21 21 21 21 21 25 160 32 158	Boise City-Nampa, ID Twin Falls, ID Lewiston, ID-WA Idaho Falls-Blackfoot, ID Twin Falls, ID Spokane, WA Spokane, WA Idaho Falls-Blackfoot, ID Lewiston, ID-WA Twin Falls, ID Idaho Falls-Blackfoot, ID Twin Falls, ID Lewiston, ID-WA Salt Lake City-Ogden-Clearfield, UT Boise City-Nampa, ID Boise City-Nampa, ID Idaho Falls-Blackfoot, ID Spokane, WA Casper, WA Casper, WY Twin Falls, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Boise City-Nampa, ID Springfield, IL Cape Girardeau-Jackson, MO-IL St. Louis-St. Charles-Farmington, MO-IL

	G 11 G	22	
	Carroll County		Chicago-Naperville-Michigan City, IL-IN-WI
	Cass County Champaign County		Springfield, IL Champaign-Urbana, IL
	Christian County		Springfield, IL
	Clark County		ndianapolis-Anderson-Columbus, IN
	Clay County		Champaign-Urbana, IL
	Clinton County		St. Louis-St. Charles-Farmington, MO-IL
	Coles County Cook County		Champaign-Urbana, IL Chicago-Naperville-Michigan City, IL-IN-WI
	Crawford County		ndianapolis-Anderson-Columbus, IN
	Cumberland County		Champaign-Urbana, IL
	De Witt County		Peoria-Canton, IL
	DeKalb County		Chicago-Naperville-Michigan City, IL-IN-WI
	Douglas County		Champaign-Urbana, IL
	DuPage County Edgar County		Chicago-Naperville-Michigan City, IL-IN-WI
	Edgar County Edwards County		ndianapolis-Anderson-Columbus, IN Evansville, IN-KY
	Effingham County		Champaign-Urbana, IL
	Fayette County		Champaign-Urbana, IL
	Ford County	28 0	Champaign-Urbana, IL
	Franklin County		St. Louis-St. Charles-Farmington, MO-IL
	Fulton County		Peoria-Canton, IL
	Gallatin County Greene County		Evansville, IN-KY Springfield, IL
	Grundy County		Chicago-Naperville-Michigan City, IL-IN-WI
	Hamilton County		St. Louis-St. Charles-Farmington, MO-IL
	Hancock County	126 F	Peoria-Canton, IL
	Hardin County		St. Louis-St. Charles-Farmington, MO-IL
	Henderson County		Peoria-Canton, IL
	Henry County		Davenport-Moline-Rock Island, IA-IL
	Iroquois County Jackson County		Chicago-Naperville-Michigan City, IL-IN-WI St. Louis-St. Charles-Farmington, MO-IL
	Jackson County Jasper County		Champaign-Urbana, IL
	Jefferson County		St. Louis-St. Charles-Farmington, MO-IL
	Jersey County	160 S	St. Louis-St. Charles-Farmington, MO-IL
	Jo Daviess County		Madison-Baraboo, WI
	Johnson County		St. Louis-St. Charles-Farmington, MO-IL
	Kane County		Chicago-Naperville-Michigan City, IL-IN-WI
	Kankakee County Kendall County		Chicago-Naperville-Michigan City, IL-IN-WI Chicago-Naperville-Michigan City, IL-IN-WI
	Knox County		Peoria-Canton, IL
Illinois	La Salle County		Chicago-Naperville-Michigan City, IL-IN-WI
	Lake County		Chicago-Naperville-Michigan City, IL-IN-WI
	Lawrence County		ndianapolis-Anderson-Columbus, IN
	Lee County		Chicago-Naperville-Michigan City, IL-IN-WI
	Livingston County Logan County		Chicago-Naperville-Michigan City, IL-IN-WI Springfield, IL
	Macon County	158 S	Springfield, IL
		158 S 160 S	
	Macon County Macoupin County Madison County Marion County	158 S 160 S 160 S 160 S	Springfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL
	Macon County Macoupin County Madison County Marion County Marshall County	158 S 160 S 160 S 160 S 160 S 126 F	pringfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Peoria-Canton, IL
	Macon County Macoupin County Madison County Marion County Marshall County Mason County	158 S 160 S 160 S 160 S 126 F 126 F	pringfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Peoria-Canton, IL Peoria-Canton, IL
	Macon County Macoupin County Madison County Marion County Marshall County Mason County Massac County	158 S 160 S 160 S 160 S 126 F 126 F 122 F	Springfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Peoria-Canton, IL Peoria-Canton, IL Paducah, KY-IL
	Macon County Macoupin County Madison County Marion County Marshall County Mason County Masoa County McDonough County	158 S 160 S 160 S 160 S 126 F 126 F 122 F 122 F	Springfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Peoria-Canton, IL Peoria-Canton, IL Paducah, KY-IL Peoria-Canton, IL Peoria-Canton, IL
	Macon County Macoupin County Madison County Marion County Marshall County Mason County Massac County	158 S 160 S 160 S 160 S 126 F 126 F 122 F 126 F 126 F 127 F 128 F 129 F 120 F	pringfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Peoria-Canton, IL Peoria-Canton, IL Paducah, KY-IL
	Macon County Macoupin County Madison County Marion County Mashall County Mason County Mason County McDonough County McHenry County	158 S 160 S 160 S 160 S 126 F 122 F 126 F 126 F 126 F 122 F 32 C 126 F 158 S	Springfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Veoria-Canton, IL Peoria-Canton, IL Paducah, KY-IL Peoria-Canton, IL Chicago-Naperville-Michigan City, IL-IN-WI Peoria-Canton, IL Springfield, IL
	Macon County Macoupin County Marion County Marion County Mason County Mason County McDonough County McDonough County McHenry County McLean County Menard County Mereer County	158 S 160 S 160 S 160 S 126 F 122 F 126 F 32 C 126 F 32 C 126 F 32 A 32	Springfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Peoria-Canton, IL Peoria-Canton, IL Peoria-Canton, IL Peoria-Canton, IL Chicago-Naperville-Michigan City, IL-IN-WI Peoria-Canton, IL Springfield, IL Javenport-Moline-Rock Island, IA-IL
	Macon County Macoupin County Marion County Marion County Mashall County Mason County Mason County McDonough County McHenry County McLean County Menard County Mercer County Morre County Morre County	158 5 160 S 160 S 160 S 126 F 126 F 126 F 32 C 126 F 127 F 128 S 43 I 160 S	Springfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Peoria-Canton, IL Peoria-Canton, IL Paducah, KY-IL Peoria-Canton, IL Chicago-Naperville-Michigan City, IL-IN-WI Peoria-Canton, IL Springfield, IL Davenport-Moline-Rock Island, IA-IL St. Louis-St. Charles-Farmington, MO-IL
	Macon County Macoupin County Madison County Marion County Marshall County Mason County Mason County Mason County Mason County Mason County Meson County McDonough County McLean County Menard County Mercer County Monroe County Montgomery County	158 5 160 S 160 S 160 S 126 F 128 S 43 T 160 S 158 S	Springfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Peoria-Canton, IL Springfield, IL Davenport-Moline-Rock Island, IA-IL St. Louis-St. Charles-Farmington, MO-IL Springfield, IL
	Macon County Macoupin County Marion County Marion County Marshall County Mason County Mason County Massac County McDonough County McLean County Mercer County Mercer County Monroe County Monroe County Montgomery County Montgomery County	158 5 160 S 160 S 160 S 126 F 126 F 126 F 126 F 126 F 158 S 43 T 160 S 158 S 158 S 158 S 158 S	Springfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Yeoria-Canton, IL Peoria-Canton, IL Paducah, KY-IL Peoria-Canton, IL Davenport-Moline-Rock Island, IA-IL St. Louis-St. Charles-Farmington, MO-IL Springfield, IL
	Macon County Macoupin County Madison County Marion County Marshall County Mason County Mason County Mason County Mason County Mason County Meson County McDonough County McLean County Menard County Mercer County Monroe County Montgomery County	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Springfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Peoria-Canton, IL Peoria-Canton, IL Paducah, KY-IL Peoria-Canton, IL Peoria-Canton, IL Peoria-Canton, IL Peoria-Canton, IL Springfield, IL Savenport-Moline-Rock Island, IA-IL St. Louis-St. Charles-Farmington, MO-IL Springfield, IL Springfield, IL <tr< td=""></tr<>
	Macon County Macoupin County Marion County Marion County Mason County Mason County McDonough County McDonough County McHenry County McLean County Menard County Mercer County Monroe County Monroe County Monroe County Mongan County Morgan County Moultrie County	158 5 160 S 160 S 160 S 126 F 158 S 158 S 158 S 28 C 32 C 32 C 126 F	Springfield, IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL Peoria-Canton, IL Springfield, IL Paureport-Moline-Rock Island, IA-IL St. Louis-St. Charles-Farmington, MO-IL Springfield, IL Springfield, IL Charpaign-Urbana, IL Charpao-Naperville-Michigan City, IL-IN-WI Peoria-Canton, IL
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	Bartholomew County		Indianapolis-Anderson-Columbus, IN
	Benton County Blackford County		Indianapolis-Anderson-Columbus, IN Fort Wayne-Huntington-Auburn, IN
	Boone County		Indianapolis-Anderson-Columbus, IN
	Brown County		Indianapolis-Anderson-Columbus, IN
	Carroll County		Indianapolis-Anderson-Columbus, IN
	Cass County		Indianapolis-Anderson-Columbus, IN
	Clark County Clav County		Louisville-Elizabethtown-Scottsburg, KY-IN Indianapolis-Anderson-Columbus, IN
	Clinton County		Indianapolis-Anderson-Columbus, IN
	Crawford County		Louisville-Elizabethtown-Scottsburg, KY-IN
	Daviess County		Evansville, IN-KY
	De Kalb County		Fort Wayne-Huntington-Auburn, IN
	Dearborn County Decatur County		Cincinnati-Middletown-Wilmington, OH-KY-IN Indianapolis-Anderson-Columbus, IN
	Delaware County		Indianapolis-Anderson-Columbus, IN
	Dubois County		Evansville, IN-KY
	Elkhart County	156	South Bend-Mishawaka, IN-MI
	Fayette County		Indianapolis-Anderson-Columbus, IN
	Floyd County		Louisville-Elizabethtown-Scottsburg, KY-IN
	Fountain County Franklin County		Indianapolis-Anderson-Columbus, IN Cincinnati-Middletown-Wilmington, OH-KY-IN
	Fulton County		South Bend-Mishawaka, IN-MI
	Gibson County		Evansville, IN-KY
	Grant County		Fort Wayne-Huntington-Auburn, IN
	Greene County		Indianapolis-Anderson-Columbus, IN
	Hamilton County Hancock County		Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN
	Harrison County		Louisville-Elizabethtown-Scottsburg, KY-IN
	Hendricks County	78	Indianapolis-Anderson-Columbus, IN
	Henry County		Indianapolis-Anderson-Columbus, IN
	Howard County		Indianapolis-Anderson-Columbus, IN
	Huntington County Jackson County		Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN
	Jasper County		Chicago-Naperville-Michigan City, IL-IN-WI
	Jay County		Fort Wayne-Huntington-Auburn, IN
	Jefferson County		Louisville-Elizabethtown-Scottsburg, KY-IN
	Jennings County		Indianapolis-Anderson-Columbus, IN
	Johnson County Knox County		Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN
	Kosciusko County		South Bend-Mishawaka, IN-MI
	La Porte County		Chicago-Naperville-Michigan City, IL-IN-WI
Indiana	Lagrange County		South Bend-Mishawaka, IN-MI
Indiana	Lake County		Chicago-Naperville-Michigan City, IL-IN-WI
	Lawrence County Madison County		Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN
	Marion County		Indianapolis-Anderson-Columbus, IN
	Marshall County		South Bend-Mishawaka, IN-MI
	Martin County		Evansville, IN-KY
	Miami County Monroe County		Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN
	Monroe County Montgomery County		Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN
	Morgan County		Indianapolis-Anderson-Columbus, IN
	Newton County		Chicago-Naperville-Michigan City, IL-IN-WI
	Noble County		Fort Wayne-Huntington-Auburn, IN
	Ohio County Orange County		Cincinnati-Middletown-Wilmington, OH-KY-IN Indianapolis-Anderson-Columbus, IN
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Indiana	Pike County Porter County Posey County Pulaski County Putnam County Randolph County Ripley County Rush County Scott County Spencer County St Joseph County Starke County Stuben County Sullivan County Switzerland County Tippecanoe County Vanderburgh County Vanderburgh County Vago County Waren County Warrick County Wells County Wells County	$\begin{array}{c} 54\\ 54\\ 32\\ 54\\ 156\\ 78\\ 78\\ 78\\ 78\\ 98\\ 78\\ 98\\ 54\\ 156\\ 156\\ 60\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78$	Evansville, IN-KY Evansville, IN-KY Chicago-Naperville-Michigan City, IL-IN-WI Evansville, IN-KY South Bend-Mishawaka, IN-MI Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Louisville-Elizabethtown-Wilmington, OH-KY-IN Indianapolis-Anderson-Columbus, IN Louisville-Elizabethtown-Scottsburg, KY-IN Indianapolis-Anderson-Columbus, IN Evansville, IN-KY South Bend-Mishawaka, IN-MI South Bend-Mishawaka, IN-MI South Bend-Mishawaka, IN-MI South Bend-Mishawaka, IN-MI Gincinnati-Middletown-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Evansville, IN-KY Indianapolis-Anderson-Columbus, IN Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN Evansville, IN-KY Louisville, Elizabethtown-Scottsburg, KY-IN Indianapolis-Anderson-Columbus, IN Evansville, IN-KY
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Indiana	Pike County Porter County Posey County Pulaski County Putnam County Randolph County Ripley County Rush County Scott County Spencer County Starke County Starke County Starke County Starke County Starke County Stueben County Sullivan County Switzerland County Tippecanoe County Union County Vanderburgh County Vigo County Wabash County Warren County Warren County Washington County Washington County Washington County Washington County Water County Wayne County White County White County White County White County Adair County	$\begin{array}{c} 54\\ 54\\ 54\\ 156\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 54\\ 156\\ 60\\ 78\\ 33\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 54\\ 78\\ 78\\ 54\\ 78\\ 78\\ 54\\ 78\\ 78\\ 78\\ 78\\ 54\\ 78\\ 78\\ 60\\ 78\\ 78\\ 60\\ 78\\ 60\\ 46\\ \end{array}$	Evansville, IN-KY Evansville, IN-KY Chicago-Naperville-Michigan City, IL-IN-WI Evansville, IN-KY South Bend-Mishawaka, IN-MI Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Louisville-Elizabethtown-Scottsburg, KY-IN Indianapolis-Anderson-Columbus, IN Louisville-Elizabethtown-Scottsburg, KY-IN Indianapolis-Anderson-Columbus, IN Evansville, IN-KY South Bend-Mishawaka, IN-MI South Bend-Mishawaka, IN-MI Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN Cincinnati-Middletown-Wilmington, OH-KY-IN Indianapolis-Anderson-Columbus, IN Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN Fort Wayne-Huntington-Auburn, IN Indianapol
Indiana	Pike County Porter County Posey County Pulaski County Putnam County Randolph County Ripley County Rush County Scott County Spencer County St Joseph County Stuben County Sullivan County Switzerland County Tippecanoe County Witzerland County Vanderburgh County Vanderburgh County Washerburgh County Washerburgh County Washerburgh County Washerburgh County Washerburgh County Warrick County Warrick County Warrick County Wayne County Wayne County White County White County White County Matice County Mater County Adair County Adair County	$\begin{array}{c} 54\\ 54\\ 32\\ 54\\ 156\\ 78\\ 78\\ 33\\ 78\\ 98\\ 8\\ 54\\ 156\\ 156\\ 60\\ 78\\ 33\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 54\\ 78\\ 54\\ 78\\ 54\\ 78\\ 54\\ 78\\ 54\\ 78\\ 54\\ 78\\ 60\\ 78\\ 60\\ 78\\ 60\\ 78\\ 60\\ 78\\ 60\\ 46\\ 46\\ 46\\ \end{array}$	Evansville, IN-KY Evansville, IN-KY Chicago-Naperville-Michigan City, IL-IN-WI Evansville, IN-KY South Bend-Mishawaka, IN-MI Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Louisville-Elizabethtown-Scottsburg, KY-IN Indianapolis-Anderson-Columbus, IN Louisville-Elizabethtown-Scottsburg, KY-IN Indianapolis-Anderson-Columbus, IN Evansville, IN-KY South Bend-Mishawaka, IN-MI South Bend-Mishawaka, IN-MI Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN Cincinnati-Middletown-Wilmington, OH-KY-IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Fort Wayne-Huntington-Auburn, IN Indianapolis
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Indiana	Pike County Porter County Posey County Pulaski County Putnam County Randolph County Ripley County Rush County Scott County Scott County Shelby County Shelby County Starke County Starke County Steuben County Steuben County Stuilivan County Switzerland County Tippoecanoe County Union County Vanderburgh County Vanderburgh County Waren County Waren County Warren County Warren County Wayne County Walls County Warren County Warren County Warren County Warren County Warren County Warren County Marren County Marren County Marren County Adair County Adair County Adair County Adair County Adair County <tr< td=""><td>$\begin{array}{c} 54\\ 54\\ 32\\ 54\\ 156\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78$</td><td>Evansville, IN-KY Evansville, IN-KY Chicago-Naperville-Michigan City, IL-IN-WI Evansville, IN-KY South Bend-Mishawaka, IN-MI Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Louisville-Elizabethtown-Scottsburg, KY-IN Indianapolis-Anderson-Columbus, IN Louisville-Elizabethtown-Scottsburg, KY-IN Indianapolis-Anderson-Columbus, IN Evansville, IN-KY South Bend-Mishawaka, IN-MI South Bend-Mishawaka, IN-MI Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN Fort Wayne-Hunti</td></tr<>	$\begin{array}{c} 54\\ 54\\ 32\\ 54\\ 156\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78\\ 78$	Evansville, IN-KY Evansville, IN-KY Chicago-Naperville-Michigan City, IL-IN-WI Evansville, IN-KY South Bend-Mishawaka, IN-MI Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Louisville-Elizabethtown-Scottsburg, KY-IN Indianapolis-Anderson-Columbus, IN Louisville-Elizabethtown-Scottsburg, KY-IN Indianapolis-Anderson-Columbus, IN Evansville, IN-KY South Bend-Mishawaka, IN-MI South Bend-Mishawaka, IN-MI Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Indianapolis-Anderson-Columbus, IN Fort Wayne-Huntington-Auburn, IN Indianapolis-Anderson-Columbus, IN Fort Wayne-Hunti

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	Boone County Bremer County		Des Moines-Newton-Pella, IA Waterloo-Cedar Falls, IA
	Buchanan County		Waterloo-Cedar Falls, IA
	Buena Vista County		Des Moines-Newton-Pella, IA
	Butler County		Waterloo-Cedar Falls, IA
	Calhoun County		Des Moines-Newton-Pella, IA
	Carroll County		Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA
	Cass County Cedar County		Cedar Rapids, IA
	Cerro Gordo County		Mason City, IA
	Cherokee County		Des Moines-Newton-Pella, IA
	Chickasaw County	103	Mason City, IA
	Clarke County	-	Des Moines-Newton-Pella, IA
	Clay County		Des Moines-Newton-Pella, IA Madison-Baraboo, WI
	Clayton County Clinton County	-	Davenport-Moline-Rock Island, IA-IL
	Crawford County		Des Moines-Newton-Pella, IA
	Dallas County		Des Moines-Newton-Pella, IA
	Davis County		Des Moines-Newton-Pella, IA
	Decatur County		Des Moines-Newton-Pella, IA
	Delaware County Des Moines County		Madison-Baraboo, WI Peoria-Canton, IL
	Dickinson County		Des Moines-Newton-Pella, IA
	Dubuque County		Madison-Baraboo, WI
	Emmet County	46	Des Moines-Newton-Pella, IA
	Fayette County		Waterloo-Cedar Falls, IA
	Floyd County		Mason City, IA
	Franklin County Fremont County		Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA
	Greene County		Des Moines-Newton-Pella, IA
	Grundy County		Waterloo-Cedar Falls, IA
	Guthrie County	46	Des Moines-Newton-Pella, IA
	Hamilton County		Des Moines-Newton-Pella, IA
	Hancock County		Mason City, IA
	Hardin County Harrison County		Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA
	Henry County		Peoria-Conton. IL
	Howard County		Mason City, IA
	Humboldt County		Des Moines-Newton-Pella, IA
Iowa	Ida County		Des Moines-Newton-Pella, IA
10 wu	Iowa County		Cedar Rapids, IA
	Jackson County Jasper County		Madison-Baraboo, WI Des Moines-Newton-Pella, IA
	Jefferson County		Peoria-Canton, IL
	Johnson County		Cedar Rapids, IA
	Jones County		Cedar Rapids, IA
	Keokuk County		Cedar Rapids, IA
	Kossuth County		Mason City, IA
	Lee County Linn County		Peoria-Canton, IL Cedar Rapids, IA
	Louisa County		Cedar Rapids, IA
	Lucas County		Des Moines-Newton-Pella, IA
	Lyon County	155	Sioux Falls, SD
	Madison County		Des Moines-Newton-Pella, IA
	Mahaska County		Des Moines-Newton-Pella, IA
	Marion County Marshall County		Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA
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1	Mills County		Omaha-Council Bluffs-Fremont NF-IA
	Mills County Mitchell County	120	Omaha-Council Bluffs-Fremont, NE-IA Mason City, IA
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	Mitchell County Monona County Monroe County	120 103 154 46	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA
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	Mitchell County Monona County Monroe County Montgomery County Muscatine County O'Brien County	120 103 154 46 120 27 154	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD
	Mitchell County Monona County Monroe County Montgomery County Muscatine County	120 103 154 46 120 27 154 154	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA
	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County Osceola County Page County Palo Alto County	120 103 154 46 120 27 154 154 120 46	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA
	Mitchell County Monroe County Monroe County Muscatine County O'Brien County Osceola County Page County Palo Alto County Plymouth County	$ \begin{array}{r} 120 \\ 103 \\ 154 \\ 46 \\ 120 \\ 27 \\ 154 \\ 154 \\ 120 \\ 46 \\ 154 \\ 154 \\ 120 \\ 46 \\ 154 \\ 15$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA Sioux City-Vermillion, IA-NE-SD
	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County Osceola County Page County Palo Alto County Plymouth County Pocahontas County	$ \begin{array}{r} 120\\ 103\\ 154\\ 46\\ 120\\ 27\\ 154\\ 154\\ 120\\ 46\\ 154\\ 46\\ \end{array} $	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA
	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County Osceola County Page County Palo Alto County Plymouth County Pocahontas County Polk County	$\begin{array}{c} 120 \\ 103 \\ 154 \\ 46 \\ 120 \\ 27 \\ 154 \\ 154 \\ 120 \\ 46 \\ 154 \\ 46 \\ 46 \end{array}$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA
	Mitchell County Monroe County Montgomery County Muscatine County O'Brien County O'Brien County Osceola County Page County Palo Alto County Plymouth County Pocahontas County Polk County Pottawattamie County	$\begin{array}{c} 120 \\ 103 \\ 154 \\ 46 \\ 120 \\ 27 \\ 154 \\ 120 \\ 46 \\ 154 \\ 46 \\ 154 \\ 46 \\ 120 \end{array}$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA
	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County Oaceola County Page County Pale Alto County Plymouth County Pocahontas County Polk County Pottawattamie County Poweshiek County	$\begin{array}{c} 120 \\ 103 \\ 154 \\ 46 \\ 120 \\ 27 \\ 154 \\ 120 \\ 46 \\ 154 \\ 154 \\ 46 \\ 46 \\ 166 \\ 120 \\ 46 \end{array}$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA
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	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County Oaceola County Page County Pale Alto County Plymouth County Plymouth County Pocahontas County Polk County Pottawattamie County Ringgold County Sac County Scott County Shelby County Sioux County	$\begin{array}{c c} 120\\ 103\\ 154\\ 46\\ 120\\ 27\\ 154\\ 154\\ 120\\ 46\\ 154\\ 46\\ 46\\ 46\\ 46\\ 46\\ 46\\ 46\\ 46\\ 43\\ 120\\ 154\\ 154\\ \end{array}$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA
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	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County O'Brien County Page County Page County Palo Alto County Pola County Polk County Polk County Polk County Pottawattamie County Nargeold County Sac County Sac County Stelby County Story County Story County Tama County Taylor County Van Buren County Wapello County Warren County	$\begin{array}{c c} 120\\ 103\\ 103\\ 154\\ 46\\ 120\\ 27\\ 154\\ 154\\ 120\\ 46\\ 154\\ 46\\ 46\\ 46\\ 46\\ 46\\ 46\\ 46\\ 46\\ 46\\ 4$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA Davenport-Moline-Rock Island, IA-IL Omaha-Council Bluffs-Fremont, NE-IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA
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	Mitchell County Monroe County Monroe County Montgomery County OBrien County OSceola County Page County Palo Alto County Plymouth County Pochontas County Potawattamie County Pottawattamie County Pottawattamie County Ringgold County Sac County Sac County Shelby County Shelby County Story County Story County Tama County Taylor County Van Buren County Waren County Waren County Washington County Washington County Washington County Washelby County Washelby County Washelby County Washington County Washelby County Winneshiek County	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA Mason City, IA Mason City, IA
Iowa	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County Osceola County Page County Palo Alto County Polo Alto County Polo Alto County Pola County Pottawattamie County Pottawattamie County Pottawattamie County Ringgold County Sac County Sac County Shelby County Story County Story County Tama County Tama County Union County Wapello County Waren County Wayne County Wayne County Wayne County Wayne County Wayne County Winnebago County Winnebago County Winnebago County	$\begin{array}{c c} 120\\ 103\\ 103\\ 154\\ 46\\ 120\\ 27\\ 154\\ 154\\ 120\\ 46\\ 154\\ 46\\ 46\\ 46\\ 46\\ 46\\ 46\\ 46\\ 46\\ 46\\ 4$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA
Iowa	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County Osceola County Page County Palo Alto County Polo Alto County Pola County Pocahontas County Pottawattamie County Pottawattamie County Ringgold County Sact County Sact County Story County Story County Story County Story County Union County Van Buren County Washington County Washington County Washington County Washington County Washington County Washington County Winnebago County Winnebago County Winneshiek County	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA
Iowa	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County Osceola County Page County Palo Alto County Polta County Pocahontas County Pottawattamie County Pottawattamie County Pottawattamie County Pottawattamie County Ringgold County Sac County Sac County Shelby County Shelby County Shelby County Story County Tama County Union County Union County Wapello County Washington County Washington County Washington County Washington County Washer County Washer County Winnebago County Winnebago County Winnebago County Woodbury County Worth County Worth County Winght County	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA
Iowa	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County Osceola County Page County Palo Alto County Polo Alto County Pola County Pocahontas County Pottawattamie County Pottawattamie County Ringgold County Sact County Sact County Story County Story County Story County Story County Union County Van Buren County Washington County Washington County Washington County Washington County Washington County Washington County Winnebago County Winnebago County Winneshiek County	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA
Iowa	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County Osceola County Page County Palo Alto County Polo Alto County Polo County Pottawattamie County Pottawattamie County Pottawattamie County Newshiek County Sact County Sact County Story County Story County Story County Union County Washington County Waren County Washington County Washington County Washington County Washington County Winnebago County Winnebago County Winneshiek County Alder County Alder County Alder County Alder County	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA Mason City, IA Mason City, IA Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA Mason City, IA Des Moines-Newton-Pella, IA Des Moines-Newton-Pella, IA Des Moines-Newton-Pell
Iowa	Mitchell County Monroe County Monroe County Montgomery County O'Brien County O'Brien County Osceola County Page County Palo Alto County Polo Alto County Polo Alto County Pocahontas County Pottawattamie County Pottawattamie County Pottawattamie County Ringgold County Sac County Sac County Shelby County Story County Story County Tama County Union County Wapello County Waren County Washington County Washington County Washington County Washington County Washington County Washington County Winnebago County	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mason City, IA Sioux City-Vermillion, IA-NE-SD Des Moines-Newton-Pella, IA Omaha-Council Bluffs-Fremont, NE-IA Cedar Rapids, IA Sioux City-Vermillion, IA-NE-SD Sioux City-Vermillion, IA-NE-SD Omaha-Council Bluffs-Fremont, NE-IA Des Moines-Newton-Pella, IA

	Bourbon County Brown County	83 Joplin, MO 167 Topeka, KS
	Butler County	107 Topeka, KS 179 Wichita-Winfield, KS
	Chase County	167 Topeka, KS
	Chautauqua County	179 Wichita-Winfield, KS
	Cherokee County Cheyenne County	83 Joplin, MO 141 Salina, KS
	Clark County	179 Wichita-Winfield, KS
	Clay County	167 Topeka, KS
	Cloud County	141 Salina, KS
	Coffey County	167 Topeka, KS 179 Wichita-Winfield, KS
	Comanche County Cowley County	179 Wichita-Winfield, KS
	Crawford County	83 Joplin, MO
	Decatur County	141 Salina, KS
	Dickinson County	167 Topeka, KS
	Doniphan County Douglas County	84 Kansas City-Overland Park-Kansas City, MO-KS 84 Kansas City-Overland Park-Kansas City, MO-KS
	Edwards County	179 Wichita-Winfield, KS
	Elk County	179 Wichita-Winfield, KS
	Ellis County	141 Salina, KS
	Ellsworth County	141 Salina, KS 179 Wichita-Winfield, KS
	Finney County Ford County	179 Wichita-Winfield, KS
	Franklin County	84 Kansas City-Overland Park-Kansas City, MO-KS
	Geary County	167 Topeka, KS
	Gove County	141 Salina, KS
	Graham County	141 Salina, KS 179 Wichita-Winfield, KS
	Grant County Gray County	179 Wichita-Winfield, KS
	Greeley County	179 Wichita-Winfield, KS
	Greenwood County	179 Wichita-Winfield, KS
	Hamilton County	179 Wichita-Winfield, KS
	Harper County	179 Wichita-Winfield, KS
	Harvey County Haskell County	179 Wichita-Winfield, KS 179 Wichita-Winfield, KS
	Hodgeman County	179 Wichita-Winfield, KS
	Jackson County	167 Topeka, KS
	Jefferson County	167 Topeka, KS
Kansas	Jewell County Johnson County	141 Salina, KS 84 Kansas City-Overland Park-Kansas City, MO-KS
Kalisas	Kearny County	179 Wichita-Winfield, KS
	Kingman County	179 Wichita-Winfield, KS
	Kiowa County	179 Wichita-Winfield, KS
	Labette County	179 Wichita-Winfield, KS
	Lane County Leavenworth County	179 Wichita-Winfield, KS 84 Kansas City-Overland Park-Kansas City, MO-KS
	Lincoln County	141 Salina, KS
	Linn County	84 Kansas City-Overland Park-Kansas City, MO-KS
	Logan County	141 Salina, KS
	Lyon County	167 Topeka, KS
	Marion County Marshall County	179 Wichita-Winfield, KS 167 Topeka, KS
	McPherson County	179 Wichita-Winfield, KS
	Meade County	119 Oklahoma City-Shawnee, OK
	Miami County	84 Kansas City-Overland Park-Kansas City, MO-KS
	Mitchell County	141 Salina, KS
	Montgomery County Morris County	179 Wichita-Winfield, KS 167 Topeka, KS
	Morton County	119 Oklahoma City-Shawnee, OK
	Nemaha County	167 Topeka, KS
	Neosho County	83 Joplin, MO
	Ness County Norton County	179 Wichita-Winfield, KS 141 Salina, KS
	Osage County	141 Salina, KS 167 Topeka, KS
	Osborne County	141 Salina, KS
	Ottawa County	141 Salina, KS
	Pawnee County Dhilling County	179 Wichita-Winfield, KS 141 Salina, KS
	Phillips County Pottawatomie County	141 Salina, KS 167 Topeka, KS
	Pratt County	107 Topeka, KS 179 Wichita-Winfield, KS
	Rawlins County	141 Salina, KS
	Reno County	179 Wichita-Winfield, KS
	Republic County Rice County	141 Salina, KS 179 Wichita-Winfield, KS
	Rice County Riley County	167 Topeka, KS
	Rooks County	141 Salina, KS
	Rush County	179 Wichita-Winfield, KS
	Russell County	141 Salina, KS
	Saline County Scott County	141 Salina, KS 179 Wichita-Winfield, KS
	Scott County Sedgwick County	179 Wichita-Winfield, KS
	Seward County	119 Oklahoma City-Shawnee, OK
	Seward County Shawnee County	167 Topeka, KS
	Seward County Shawnee County Sheridan County	167 Topeka, KS 141 Salina, KS
	Seward County Shawnee County Sheridan County Sherman County	167 Topeka, KS 141 Salina, KS 141 Salina, KS
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	Seward County Shawnee County Sheridan County Sherman County	167 Topeka, KS 141 Salina, KS 141 Salina, KS
	Seward County Shawnee County Sheridan County Sherman County Smith County Stafford County Stanton County Stanton County Stevens County	167 Topeka, KS 141 Salina, KS 141 Salina, KS 141 Salina, KS 179 Wichita-Winfield, KS 179 Wichita-Winfield, KS 179 Oklahoma City-Shawnee, OK
	Seward County Shawnee County Sheridan County Sherman County Smith County Stafford County Staton County Stevens County Summer County	167 Topeka, KS 141 Salina, KS 141 Salina, KS 141 Salina, KS 179 Wichita-Winfield, KS 179 Wichita-Winfield, KS 119 Oklahoma City-Shawnee, OK 179 Wichita-Winfield, KS
	Seward County Shawnee County Sheridan County Sherman County Smith County Stafford County Statford County Staton County Stevens County Sumner County Thomas County	167 Topeka, KS 141 Salina, KS 141 Salina, KS 141 Salina, KS 179 Wichita-Winfield, KS 179 Wichita-Winfield, KS 119 Oklahoma City-Shawnee, OK 179 Wichita-Winfield, KS 119 Oklahoma City-Shawnee, OK 120 Wichita-Winfield, KS 141 Salina, KS
Kansas	Seward County Shawnee County Sheridan County Sherman County Stafford County Stafford County Stanton County Stevens County Sumner County Thomas County Trego County	167 Topeka, KS 141 Salina, KS 141 Salina, KS 141 Salina, KS 179 Wichita-Winfield, KS 179 Wichita-Winfield, KS 179 Wichita-Winfield, KS 179 Wichita-Winfield, KS 174 Salina, KS 175 Wichita-Winfield, KS 176 Wichita-Winfield, KS 177 Wichita-Winfield, KS 141 Salina, KS
Kansas	Seward County Shawnee County Sheridan County Sherman County Stafford County Stafford County Stanton County Stevens County Sumner County Thomas County Trego County Wabaunsee County	167 Topeka, KS 141 Salina, KS 141 Salina, KS 141 Salina, KS 179 Wichita-Winfield, KS 179 Wichita-Winfield, KS 119 Oklahoma City-Shawnee, OK 179 Wichita-Winfield, KS 119 Oklahoma City-Shawnee, OK 120 Wichita-Winfield, KS 141 Salina, KS
Kansas	Seward County Shawnee County Sheridan County Sherman County Stafford County Stafford County Stanton County Stevens County Sumner County Thomas County Trego County	167 Topeka, KS 141 Salina, KS 141 Salina, KS 141 Salina, KS 179 Wichita-Winfield, KS 179 Wichita-Winfield, KS 119 Oklahoma City-Shawnee, OK 179 Wichita-Winfield, KS 141 Salina, KS

	1971 Q		
	Wilson County Woodson County		Joplin, MO Joplin, MO
	Wyandotte County		Kansas City-Overland Park-Kansas City, MO-KS
	Adair County	98	Louisville-Elizabethtown-Scottsburg, KY-IN
	Allen County		Nashville-DavidsonMurfreesboroColumbia, TN
	Anderson County Ballard County		Lexington-FayetteFrankfortRichmond, KY Paducah, KY-IL
	Barren County		Nashville-DavidsonMurfreesboroColumbia, TN
	Bath County		Lexington-FayetteFrankfortRichmond, KY
	Bell County		Knoxville-Sevierville-La Follette, TN
	Boone County Bourbon County		Cincinnati-Middletown-Wilmington, OH-KY-IN Lexington-FayetteFrankfortRichmond, KY
	Boyd County		Charleston, WV
	Boyle County		Lexington-FayetteFrankfortRichmond, KY
	Bracken County		Cincinnati-Middletown-Wilmington, OH-KY-IN
	Breathitt County Breckinridge County		Lexington-FayetteFrankfortRichmond, KY Louisville-Elizabethtown-Scottsburg, KY-IN
	Bullitt County		Louisville-Elizabethtown-Scottsburg, KY-IN
	Butler County		Nashville-DavidsonMurfreesboroColumbia, TN
	Caldwell County		Paducah, KY-IL
	Calloway County Campbell County		Paducah, KY-IL Cincinnati-Middletown-Wilmington, OH-KY-IN
	Carlisle County		Paducah, KY-IL
	Carroll County		Louisville-Elizabethtown-Scottsburg, KY-IN
	Carter County		Charleston, WV
	Casey County		Lexington-FayetteFrankfortRichmond, KY Nashville-DavidsonMurfreesboroColumbia, TN
	Christian County Clark County		Lexington-FayetteFrankfortRichmond, KY
	Clay County	94	Lexington-FayetteFrankfortRichmond, KY
	Clinton County		Lexington-FayetteFrankfortRichmond, KY
	Crittenden County Cumberland County		Paducah, KY-IL Lexington-FayetteFrankfortRichmond, KY
	Daviess County		Evansville, IN-KY
	Edmonson County		Nashville-DavidsonMurfreesboroColumbia, TN
	Elliott County		Lexington-FayetteFrankfortRichmond, KY
	Estill County Fayette County		Lexington-FayetteFrankfortRichmond, KY Lexington-FayetteFrankfortRichmond, KY
	Fleming County		Cincinnati-Middletown-Wilmington, OH-KY-IN
	Floyd County	94	Lexington-FayetteFrankfortRichmond, KY
	Franklin County		Lexington-FayetteFrankfortRichmond, KY
	Fulton County Gallatin County		Memphis, TN-MS-AR Cincinnati-Middletown-Wilmington, OH-KY-IN
	Garrard County		Lexington-FayetteFrankfortRichmond, KY
Kentucky	Grant County	33	Cincinnati-Middletown-Wilmington, OH-KY-IN
Reinderky	Graves County		Paducah, KY-IL
	Grayson County Green County		Louisville-Elizabethtown-Scottsburg, KY-IN Louisville-Elizabethtown-Scottsburg, KY-IN
	Greenup County		Charleston, WV
	Hancock County		Evansville, IN-KY
	Hardin County Harlan County		Louisville-Elizabethtown-Scottsburg, KY-IN Lexington-FayetteFrankfortRichmond, KY
	Harrison County		Lexington-FayetteFrankfortRichmond, KY
	Hart County	116	Nashville-DavidsonMurfreesboroColumbia, TN
	Henderson County		Evansville, IN-KY
	Henry County Hickman County		Louisville-Elizabethtown-Scottsburg, KY-IN Memphis, TN-MS-AR
	Hopkins County		Evansville, IN-KY
	Jackson County	94	Lexington-FayetteFrankfortRichmond, KY
	Jefferson County		Louisville-Elizabethtown-Scottsburg, KY-IN
	Jessamine County Johnson County		Lexington-FayetteFrankfortRichmond, KY Lexington-FayetteFrankfortRichmond, KY
	Kenton County		Cincinnati-Middletown-Wilmington, OH-KY-IN
	Knott County		Lexington-FayetteFrankfortRichmond, KY
	Knox County		Lexington-FayetteFrankfortRichmond, KY
	Larue County Laurel County		Louisville-Elizabethtown-Scottsburg, KY-IN Lexington-FayetteFrankfortRichmond, KY
	Lawrence County		Charleston, WV
	Lee County		Lexington-FayetteFrankfortRichmond, KY
	Leslie County		Lexington-FayetteFrankfortRichmond, KY
	Letcher County Lewis County		Lexington-FayetteFrankfortRichmond, KY Cincinnati-Middletown-Wilmington, OH-KY-IN
	Lincoln County		Lexington-FayetteFrankfortRichmond, KY
	Livingston County	122	Paducah, KY-IL
	Logan County		Nashville-DavidsonMurfreesboroColumbia, TN
	Lyon County Madison County		Paducah, KY-IL Lexington-FayetteFrankfortRichmond, KY
	Magoffin County		Lexington-FayetteFrankfortRichmond, KY
	Marion County	98	Louisville-Elizabethtown-Scottsburg, KY-IN
	Marshall County Martin County		Paducah, KY-IL Lavington Favetta, Frankfort, Dishmond, KV
	Martin County Mason County		Lexington-FayetteFrankfortRichmond, KY Cincinnati-Middletown-Wilmington, OH-KY-IN
	McCracken County		Paducah, KY-IL
	McCreary County	94	Lexington-FayetteFrankfortRichmond, KY
	McLean County Meade County		Evansville, IN-KY Louisville Elizabethtown Scotteburg, KX IN
	Menifee County		Louisville-Elizabethtown-Scottsburg, KY-IN Lexington-FayetteFrankfortRichmond, KY
	Mercer County	94	Lexington-FayetteFrankfortRichmond, KY
	Metcalfe County		Nashville-DavidsonMurfreesboroColumbia, TN
	Monroe County Montgomery County		Nashville-DavidsonMurfreesboroColumbia, TN Lexington-FayetteFrankfortRichmond, KY
	Morgan County		Lexington-FayetteFrankfortRichmond, KY
	Muhlenberg County	54	Evansville, IN-KY
	Nelson County		Louisville-Elizabethtown-Scottsburg, KY-IN
	Nicholas County Ohio County		Lexington-FayetteFrankfortRichmond, KY Evansville, IN-KY
	Oldham County		Louisville-Elizabethtown-Scottsburg, KY-IN
	Olulian County	90	Edustine Enzadeunown Beousdarg, RT ny

	Owsley County		Lexington-FayetteFrankfortRichmond, KY
	Pendleton County Perry County	33 94	Cincinnati-Middletown-Wilmington, OH-KY-IN Lexington-FayetteFrankfortRichmond, KY
	Perry County Pike County		Lexington-FayetteFrankfortRichmond, KY
	Powell County		Lexington-FayetteFrankfortRichmond, KY
	Pulaski County		Lexington-FayetteFrankfortRichmond, KY
Kentucky	Robertson County		Lexington-FayetteFrankfortRichmond, KY
J	Rockcastle County Rowan County		Lexington-FayetteFrankfortRichmond, KY Lexington-FayetteFrankfortRichmond, KY
	Russell County	2.1	Lexington-FayetteFrankfortRichmond, KY
	Scott County	94	Lexington-FayetteFrankfortRichmond, KY
	Shelby County		Louisville-Elizabethtown-Scottsburg, KY-IN
	Simpson County Spencer County		Nashville-DavidsonMurfreesboroColumbia, TN Louisville-Elizabethtown-Scottsburg, KY-IN
	Taylor County		Louisville-Elizabethtown-Scottsburg, KY-IN
	Todd County		Nashville-DavidsonMurfreesboroColumbia, TN
	Trigg County		Nashville-DavidsonMurfreesboroColumbia, TN
	Trimble County Union County		Louisville-Elizabethtown-Scottsburg, KY-IN Evansville, IN-KY
	Warren County		Nashville-DavidsonMurfreesboroColumbia, TN
	Washington County	94	Lexington-FayetteFrankfortRichmond, KY
	Wayne County		Lexington-FayetteFrankfortRichmond, KY
	Webster County Whitley County		Evansville, IN-KY Lexington-FayetteFrankfortRichmond, KY
	Wolfe County		Lexington-FayetteFrankfortRichmond, KY
	Woodford County	94	Lexington-FayetteFrankfortRichmond, KY
	Acadia Parish		Lafayette-Acadiana, LA
	Allen Parish Ascension Parish		Lake Charles-Jennings, LA Baton Rouge-Pierre Part, LA
	Assumption Parish		Baton Rouge-Pierre Part, LA
	Avoyelles Parish	90	Lafayette-Acadiana, LA
	Beauregard Parish		Lake Charles-Jennings, LA
	Bienville Parish Bossier Parish		Shreveport-Bossier City-Minden, LA Shreveport-Bossier City-Minden, LA
	Caddo Parish		Shreveport-Bossier City-Minden, LA
	Calcasieu Parish		Lake Charles-Jennings, LA
	Caldwell Parish Cameron Parish	-	Monroe-Bastrop, LA Lake Charles-Jennings, LA
	Catahoula Parish		Jackson-Yazoo City, MS
	Claiborne Parish	153	Shreveport-Bossier City-Minden, LA
	Concordia Parish		Jackson-Yazoo City, MS
	De Soto Parish East Baton Rouge Parish		Shreveport-Bossier City-Minden, LA Baton Rouge-Pierre Part, LA
	East Carroll Parish		Monroe-Bastrop, LA
	East Feliciana Parish		Baton Rouge-Pierre Part, LA
	Evangeline Parish Franklin Parish		Lafayette-Acadiana, LA Monroe-Bastrop, LA
	Grant Parish		Lafayette-Acadiana, LA
	Iberia Parish		Lafayette-Acadiana, LA
	Iberville Parish Jackson Parish		Baton Rouge-Pierre Part, LA Monroe-Bastrop, LA
	Jefferson Davis Parish		Lake Charles-Jennings, LA
	Jefferson Parish	117	New Orleans-Metairie-Bogalusa, LA
	La Salle Parish		Lafayette-Acadiana, LA
Louisiana	Lafayette Parish Lafourche Parish		Lafayette-Acadiana, LA New Orleans-Metairie-Bogalusa, LA
	Lincoln Parish		Monroe-Bastrop, LA
	Livingston Parish		Baton Rouge-Pierre Part, LA
	Madison Parish Morehouse Parish		Jackson-Yazoo City, MS Monroe-Bastrop, LA
	Natchitoches Parish		Shreveport-Bossier City-Minden, LA
	Orleans Parish	117	New Orleans-Metairie-Bogalusa, LA
	Ouachita Parish Plaquemines Parish		Monroe-Bastrop, LA New Orleans-Metairie-Bogalusa, LA
	Pointe Coupee Parish		Baton Rouge-Pierre Part, LA
	Rapides Parish	90	Lafayette-Acadiana, LA
	Red River Parish		Shreveport-Bossier City-Minden, LA
	Richland Parish Sabine Parish		Monroe-Bastrop, LA Shreveport-Bossier City-Minden, LA
	St. Bernard Parish		New Orleans-Metairie-Bogalusa, LA
	St. Charles Parish	117	New Orleans-Metairie-Bogalusa, LA
	St. Helena Parish		Baton Rouge-Pierre Part, LA New Orleans-Metairie-Bogalusa, LA
	St. James Parish St. John the Baptist Parish		New Orleans-Metairie-Bogalusa, LA New Orleans-Metairie-Bogalusa, LA
	St. Landry Parish		Lafayette-Acadiana, LA
	St. Martin Parish		Lafayette-Acadiana, LA
	St. Mary Parish St. Tammany Parish		Lafayette-Acadiana, LA New Orleans-Metairie-Bogalusa, LA
	Tangipahoa Parish		New Orleans-Metairie-Bogalusa, LA
	Tensas Parish	80	Jackson-Yazoo City, MS
	Terrebonne Parish		New Orleans-Metairie-Bogalusa, LA Monroe-Bastrop, LA
	Union Parish Vermilion Parish		Monroe-Bastrop, LA Lafayette-Acadiana, LA
	Vernon Parish	91	Lake Charles-Jennings, LA
	Washington Parish		New Orleans-Metairie-Bogalusa, LA
.	Webster Parish West Baton Rouge Parish		Shreveport-Bossier City-Minden, LA Baton Rouge-Pierre Part, LA
Louisiana	West Daton Rouge Parish West Carroll Parish		Monroe-Bastrop, LA
	West Feliciana Parish	15	Baton Rouge-Pierre Part, LA
	Winn Parish Androscoggin County		Shreveport-Bossier City-Minden, LA Portland-Lewiston-South Portland, ME
1	Androscoggin County Aroostook County		Bangor, ME
	Cumberland County	130	Portland-Lewiston-South Portland, ME
	Franklin County		Portland-Lewiston-South Portland, ME
	Hancock County Kennebec County		Bangor, ME Portland-Lewiston-South Portland, ME
	Knox County		Portland-Lewiston-South Portland, ME
	Thion County	150	Tortund Eewiston Bouth Fortund, ME

Maine	Lincoln County		Portland-Lewiston-South Portland, ME
i i i i i i i i i i i i i i i i i i i	Oxford County Penobscot County		Portland-Lewiston-South Portland, ME
	Penobscot County Piscataquis County		Bangor, ME Bangor, ME
	Sagadahoc County		Portland-Lewiston-South Portland, ME
	Somerset County		Portland-Lewiston-South Portland, ME
	Waldo County Washington County		Portland-Lewiston-South Portland, ME Bangor, ME
	Washington County York County		Portland-Lewiston-South Portland, ME
	Allegany County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Anne Arundel County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Baltimore city		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Baltimore County Calvert County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Caroline County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Carroll County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Cecil County		Philadelphia-Camden-Vineland, PA-NJ-DE-MD
	Charles County Dorchester County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Frederick County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
Maryland	Garrett County	174	Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
viaryiana	Harford County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Howard County Kent County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Montgomery County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Prince George's County	174	Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Queen Anne's County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Somerset County St. Mary's County		Dover, DE Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	St. Mary's County Talbot County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Washington County	174	Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Wicomico County	49	Dover, DE
	Worcester County		Dover, DE Poston Warrastar Manchestar MA NH
	Barnstable County Berkshire County	22	Boston-Worcester-Manchester, MA-NH Albany-Schenectady-Amsterdam, NY
	Bristol County		Boston-Worcester-Manchester, MA-NH
	Dukes County	22	Boston-Worcester-Manchester, MA-NH
	Essex County		Boston-Worcester-Manchester, MA-NH
	Franklin County Hampden County		Hartford-West Hartford-Willimantic, CT Hartford-West Hartford-Willimantic, CT
Massachusetts	Hampshire County		Hartford-West Hartford-Willimantic, CT
	Middlesex County	22	Boston-Worcester-Manchester, MA-NH
	Nantucket County	22	Boston-Worcester-Manchester, MA-NH
	Norfolk County	22	Boston-Worcester-Manchester, MA-NH
	Plymouth County Suffolk County		Boston-Worcester-Manchester, MA-NH Boston-Worcester-Manchester, MA-NH
	Worcester County	22	Boston-Worcester-Manchester, MA-NH
	Alcona County		Detroit-Warren-Flint, MI
	Alger County Allegan County		Marinette, WI-MI Grand Rapids-Muskegon-Holland, MI
	Alpena County		Alpena, MI
	Antrim County		Alpena, MI
	Arenac County		Detroit-Warren-Flint, MI
	Baraga County Barry County		Marinette, WI-MI Grand Rapids-Muskegon-Holland, MI
	Barry County Bay County		Detroit-Warren-Flint, MI
	Benzie County		Traverse City, MI
	Berrien County		South Bend-Mishawaka, IN-MI
	Branch County Calhoun County		Fort Wayne-Huntington-Auburn, IN Grand Rapids-Muskegon-Holland, MI
	Canoun County Cass County	156	South Bend-Mishawaka, IN-MI
	Charlevoix County		Alpena, MI
	Cheboygan County		Alpena, MI
	Chippewa County		Marinette, WI-MI Detroit Warren Flint MI
Michigan	Clare County Clinton County		Detroit-Warren-Flint, MI Detroit-Warren-Flint, MI
	Crawford County		Alpena, MI
	Delta County	102	Marinette, WI-MI
	Dickinson County		Marinette, WI-MI
	Eaton County Emmet County		Detroit-Warren-Flint, MI Alpena, MI
	Genesee County	47	Detroit-Warren-Flint, MI
	Gladwin County	47	Detroit-Warren-Flint, MI
	Gogebic County		Wausau-Merrill, WI
	Grand Traverse County Gratiot County	168	Traverse City, MI Detroit-Warren-Flint, MI
	Hillsdale County		Detroit-Warren-Flint, MI
	Houghton County	102	Marinette, WI-MI
	Huron County		Detroit-Warren-Flint, MI
	Ingham County Ionia County		Detroit-Warren-Flint, MI Grand Rapids-Muskegon-Holland, MI
	Iosco County		Detroit-Warren-Flint, MI
	Iron County	102	Marinette, WI-MI
		47	Detroit-Warren-Flint, MI
	Isabella County		I Seture of AS/ - many I/I and I/I
	Isabella County Jackson County	47	Detroit-Warren-Flint, MI
	Isabella County Jackson County Kalamazoo County	47 64	Grand Rapids-Muskegon-Holland, MI
	Isabella County Jackson County	47 64 168	Grand Rapids-Muskegon-Holland, MI Traverse City, MI
	Isabella County Jackson County Kalamazoo County Kalkaska County Kent County Keweenaw County	47 64 168 64 102	Grand Rapids-Muskegon-Holland, MI Traverse City, MI Grand Rapids-Muskegon-Holland, MI Marinette, WI-MI
	Isabella County Jackson County Kalamazoo County Kalkaska County Kent County Keweenaw County Lake County	47 64 168 64 102 168	Grand Rapids-Muskegon-Holland, MI Traverse City, MI Grand Rapids-Muskegon-Holland, MI Marinette, WI-MI Traverse City, MI
	Isabella County Jackson County Kalamazoo County Kalkaska County Kent County Keweenaw County Lake County Lapeer County	47 64 168 64 102 168 47	Grand Rapids-Muskegon-Holland, MI Traverse City, MI Grand Rapids-Muskegon-Holland, MI Marinette, WI-MI Traverse City, MI Detroit-Warren-Flint, MI
	Isabella County Jackson County Kalamazoo County Kalkaska County Kent County Keweenaw County Lapeer County Lapeer County Leelanau County	47 64 168 64 102 168 47 168	Grand Rapids-Muskegon-Holland, MI Traverse City, MI Grand Rapids-Muskegon-Holland, MI Marinette, WI-MI Traverse City, MI Detroit-Warren-Flint, MI Traverse City, MI
	Isabella County Jackson County Kalamazoo County Kalkaska County Kent County Keweenaw County Lake County Lapeer County	47 64 168 64 102 168 47 168 47	Grand Rapids-Muskegon-Holland, MI Traverse City, MI Grand Rapids-Muskegon-Holland, MI Marinette, WI-MI Traverse City, MI Detroit-Warren-Flint, MI
	Isabella County Jackson County Kalamazoo County Kalkaska County Kent County Lake County Lapeer County Leelanau County Leelanau County Lenawee County	$\begin{array}{c} 47\\ 64\\ 168\\ 64\\ 102\\ 168\\ 47\\ 168\\ 47\\ 47\\ 102\\ \end{array}$	Grand Rapids-Muskegon-Holland, MI Traverse City, MI Grand Rapids-Muskegon-Holland, MI Marinette, WI-MI Traverse City, MI Detroit-Warren-Flint, MI Traverse City, MI Detroit-Warren-Flint, MI

	Manistee County		Traverse City, MI
	Marquette County		Marinette, WI-MI Traverse City, MI
1	Mason County Mecosta County		Grand Rapids-Muskegon-Holland, MI
	Menominee County		Marinette, WI-MI
	Midland County		Detroit-Warren-Flint, MI
	Missaukee County	168	Traverse City, MI
	Monroe County	47	
Mishigan	Montcalm County	64	
Michigan	Montmorency County Muskegon County	6 64	Alpena, MI Grand Rapids-Muskegon-Holland, MI
	Newaygo County	64	Grand Rapids-Muskegon-Holland, MI
	Oakland County	47	Detroit-Warren-Flint, MI
	Oceana County		Grand Rapids-Muskegon-Holland, MI
	Ogemaw County	47	Detroit-Warren-Flint, MI
	Ontonagon County		Wausau-Merrill, WI
	Osceola County		Traverse City, MI
	Oscoda County Otsego County	6	Alpena, MI Alpena, MI
	Otsego County Ottawa County		Grand Rapids-Muskegon-Holland, MI
	Presque Isle County	6	
	Roscommon County	6	Alpena, MI
	Saginaw County	47	Detroit-Warren-Flint, MI
	Sanilac County	47	Detroit-Warren-Flint, MI
	Schoolcraft County		Marinette, WI-MI
	Shiawassee County		Detroit-Warren-Flint, MI
	St. Clair County	47	Detroit-Warren-Flint, MI
	St. Joseph County Tuscola County	47	South Bend-Mishawaka, IN-MI Detroit-Warren-Flint, MI
	Van Buren County	64	Grand Rapids-Muskegon-Holland, MI
	Washtenaw County	47	Detroit-Warren-Flint, MI
	Wayne County		Detroit-Warren-Flint, MI
	Wexford County	168	Traverse City, MI
	Aitkin County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Anoka County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Becker County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Beltrami County Benton County		Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
	Big Stone County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Blue Earth County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Brown County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Carlton County		Duluth, MN-WI
	Carver County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Cass County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Chippewa County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Chisago County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Clay County Clearwater County		Fargo-Wahpeton, ND-MN Minneapolis-St. Paul-St. Cloud, MN-WI
	Cook County		Duluth, MN-WI
	Cottonwood County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Crow Wing County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Dakota County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Dodge County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Douglas County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Faribault County Fillmore County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Freeborn County		Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
Minn (Goodhue County		Minneapolis-St. Paul-St. Cloud, MN-WI
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Minnesota			
wiinnesota	Grant County Hennepin County	109	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
winnesota	Grant County Hennepin County Houston County	109 109 89	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN
winnesota	Grant County Hennepin County Houston County Hubbard County	109 109 89 109	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI
winnesota	Grant County Hennepin County Houston County Hubbard County Isanti County	109 109 89 109 109	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
minnesota	Grant County Hennepin County Houston County Hubbard County Isanti County Itasca County	109 109 89 109 109 50	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI
winnesota	Grant County Hennepin County Houston County Hubbard County Isanti County Itasca County Jackson County	109 109 89 109 109 50 109	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
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wiinnesota	Grant County Hennepin County Houston County Hubbard County Isanti County Itasca County Jackson County Kanabec County	109 109 89 109 109 50 109 109	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
wiinnesota	Grant County Hennepin County Houston County Hubbard County Isanti County Itasca County Jackson County Kanabec County Kandiyohi County Kittson County Koochiching County	$ \begin{array}{r} 109 \\ 109 \\ 89 \\ 109 \\ 109 \\ 50 \\ 109 \\ 109 \\ 109 \\ 109 \\ 63 \\ 50 \\ 50 \\ \hline $	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI
wiinnesota	Grant County Hennepin County Houston County Hubbard County Isanti County Itasca County Jackson County Kanabec County Kandiyohi County Kittson County Kitoon County Koochiching County Lac qui Parle County	$ \begin{array}{c} 109\\ 109\\ 89\\ 109\\ 50\\ 109\\ 109\\ 109\\ 109\\ 63\\ 50\\ 109\\ 109\\ 63\\ 50\\ 109\\ 109\\ 63\\ 50\\ 109\\ 109\\ 63\\ 50\\ 109\\ 109\\ 63\\ 50\\ 109\\ 109\\ 109\\ 109\\ 109\\ 109\\ 109\\ 10$	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
Minnesota	Grant County Hennepin County Houston County Hubbard County Isanti County Itasca County Jackson County Kanabec County Kandiyohi County Kittson County Kittson County Koochiching County Lac qui Parle County Lac Qui Parle County	109 109 109 89 109 50 109 109 63 50 109 50 50 50 50	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Grand Forks, ND-MN Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI
winnesota	Grant County Hennepin County Houston County Hubbard County Isanti County Itasca County Jackson County Kandiyohi County Kandiyohi County Kittson County Koochiching County Lac qui Parle County Lake County Lake of the Woods County	109 109 109 89 109 50 109 109 50 109 109 50 109 50 63	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Grand Forks, ND-MN Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Grand Forks, ND-MN Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Grand Forks, ND-MN
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Minnesota	Grant County Hennepin County Houston County Hubbard County Itasca County Jackson County Kanabec County Kandiyohi County Kittson County Kittson County Lac qui Parle County Lake of the Woods County Le Sueur County	$\begin{array}{c} 109 \\ 109 \\ 89 \\ 109 \\ 50 \\ 109 \\ 109 \\ 109 \\ 63 \\ 50 \\ 109 \\ 50 \\ 63 \\ 109 \\ 50 \\ 63 \\ 109 \\ 109 \\ 109 \\ 109 \\ 109 \\ 109 \end{array}$	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Grand Forks, ND-MN Duluth, MN-WI Grand Forks, ND-MN Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Grand Forks, ND-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
Minnesota	Grant County Hennepin County Houston County Hubbard County Isanti County Itasca County Jackson County Kanabec County Kandiyohi County Kittson County Koochiching County Lac qui Parle County Lake County Lake County Lake County Lake of the Woods County Lincoln County Lyon County Mahnomen County Marshall County	$\begin{array}{c} 109\\ 109\\ 89\\ 109\\ 109\\ 50\\ 109\\ 109\\ 63\\ 50\\ 109\\ 63\\ 50\\ 109\\ 50\\ 63\\ 109\\ 109\\ 109\\ 63\\ \end{array}$	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Grand Forks, ND-MN Duluth, MN-WI Grand Forks, ND-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN
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wiinnesota	Grant County Hennepin County Houston County Hubbard County Isanti County Iackson County Jackson County Kanabec County Kandiyohi County Kittson County Koochiching County Lac qui Parle County Lake of the Woods County Lyon County Marhall County Martin County McLeod County	109 109 89 109 109 50 109	Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI La Crosse, WI-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Duluth, MN-WI Duluth, MN-WI Grand Forks, ND-MN Minneapolis-St. Paul-St. Cloud, MN-WI Duluth, MN-WI Grand Forks, ND-MN Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
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	Renville County Rice County	109 Minneapolis-St. Paul-St. Cloud, MN-WI 109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Rock County	155 Sioux Falls, SD
M:	Roseau County	63 Grand Forks, ND-MN
Minnesota	Scott County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Sherburne County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Sibley County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	St. Louis County	50 Duluth, MN-WI
	Stearns County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Steele County Stevens County	109 Minneapolis-St. Paul-St. Cloud, MN-WI 109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Swift County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Todd County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Traverse County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Wabasha County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Wadena County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Waseca County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Washington County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Watonwan County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Wilkin County	55 Fargo-Wahpeton, ND-MN
	Winona County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Wright County Yellow Medicine County	109 Minneapolis-St. Paul-St. Cloud, MN-WI
	Adams County	109 Minneapolis-St. Paul-St. Cloud, MN-WI 80 Jackson-Yazoo City, MS
	Alcorn County	171 Tupelo, MS
	Amite County	80 Jackson-Yazoo City, MS
	Attala County	80 Jackson-Yazoo City, MS
	Benton County	105 Memphis, TN-MS-AR
	Bolivar County	80 Jackson-Yazoo City, MS
	Calhoun County	171 Tupelo, MS
	Carroll County	80 Jackson-Yazoo City, MS
	Chickasaw County	171 Tupelo, MS
	Choctaw County	171 Tupelo, MS
	Claiborne County	80 Jackson-Yazoo City, MS
	Clarke County	80 Jackson-Yazoo City, MS
	Clay County	171 Tupelo, MS
	Coahoma County Copiah County	105 Memphis, TN-MS-AR 80 Jackson-Yazoo City, MS
	Covington County	80 Jackson-Yazoo City, MS
	DeSoto County	105 Memphis, TN-MS-AR
	Forrest County	80 Jackson-Yazoo City, MS
	Franklin County	80 Jackson-Yazoo City, MS
	George County	69 Gulfport-Biloxi-Pascagoula, MS
	Greene County	80 Jackson-Yazoo City, MS
	Grenada County	80 Jackson-Yazoo City, MS
	Hancock County	69 Gulfport-Biloxi-Pascagoula, MS
	Harrison County	69 Gulfport-Biloxi-Pascagoula, MS
	Hinds County	80 Jackson-Yazoo City, MS
	Holmes County	80 Jackson-Yazoo City, MS
	Humphreys County	80 Jackson-Yazoo City, MS
	Issaquena County	80 Jackson-Yazoo City, MS
Mississippi	Itawamba County Jackson County	171 Tupelo, MS 69 Gulfport-Biloxi-Pascagoula, MS
	Jasper County	80 Jackson-Yazoo City, MS
	Jefferson County	80 Jackson-Yazoo City, MS
	Jefferson Davis County	80 Jackson-Yazoo City, MS
	Jones County	80 Jackson-Yazoo City, MS
	Kemper County	80 Jackson-Yazoo City, MS
	Lafayette County	105 Memphis, TN-MS-AR
	Lamar County	80 Jackson-Yazoo City, MS
	Lauderdale County	80 Jackson-Yazoo City, MS
	Lawrence County	80 Jackson-Yazoo City, MS
	Leake County	80 Jackson-Yazoo City, MS
	Lee County	171 Tupelo, MS
	Leflore County	80 Jackson-Yazoo City, MS
	Lincoln County	80 Jackson-Yazoo City, MS
	Lowndes County Madison County	171 Tupelo, MS 80 Jackson-Yazoo City, MS
	Marion County	80 Jackson-Yazoo City, MS
	Marshall County	105 Memphis, TN-MS-AR
	Monroe County	171 Tupelo, MS
	Montgomery County	80 Jackson-Yazoo City, MS
	Neshoba County	80 Jackson-Yazoo City, MS
	Newton County	80 Jackson-Yazoo City, MS
	Noxubee County	171 Tupelo, MS
	Oktibbeha County	171 Tupelo, MS
	Panola County	105 Memphis, TN-MS-AR
	Pearl River County	117 New Orleans-Metairie-Bogalusa, LA
	Perry County Pike County	80 Jackson-Yazoo City, MS
	Pike County Pontotoc County	80 Jackson-Yazoo City, MS 171 Tupelo, MS
	Prentiss County	171 Tupelo, MS
	Quitman County	105 Memphis, TN-MS-AR
	Rankin County	80 Jackson-Yazoo City, MS
	Scott County	80 Jackson-Yazoo City, MS
	Sharkey County	80 Jackson-Yazoo City, MS
	Simpson County	80 Jackson-Yazoo City, MS
	Smith County	80 Jackson-Yazoo City, MS
	Stone County	69 Gulfport-Biloxi-Pascagoula, MS
	Sunflower County	80 Jackson-Yazoo City, MS
	Tallahatchie County	105 Memphis, TN-MS-AR
	Tate County	105 Memphis, TN-MS-AR
Mississippi	Tippah County	171 Tupelo, MS
MISSISSIPPI	Tishomingo County	171 Tupelo, MS
	Tunico Countri	105 Momphie TN MC AD
	Tunica County Union County	105 Memphis, TN-MS-AR 171 Tupelo, MS

-	Warren County	80	Jackson-Yazoo City, MS
	Washington County		Jackson-Yazoo City, MS
	Wayne County		Jackson-Yazoo City, MS
	Webster County	171	Tupelo, MS
	Wilkinson County		Baton Rouge-Pierre Part, LA
	Winston County		Jackson-Yazoo City, MS Memphis, TN-MS-AR
	Yalobusha County Yazoo County		Jackson-Yazoo City, MS
	Adair County		Kansas City-Overland Park-Kansas City, MO-KS
	Andrew County		Kansas City-Overland Park-Kansas City, MO-KS
	Atchison County		Omaha-Council Bluffs-Fremont, NE-IA
	Audrain County	37	Columbia, MO
	Barry County Barton County		Springfield, MO Joplin, MO
	Bates County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Benton County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Bollinger County	25	Cape Girardeau-Jackson, MO-IL
	Boone County		Columbia, MO
	Buchanan County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Butler County Caldwell County	84	Cape Girardeau-Jackson, MO-IL Kansas City-Overland Park-Kansas City, MO-KS
	Callaway County		Columbia, MO
	Camden County	37	Columbia, MO
	Cape Girardeau County	25	Cape Girardeau-Jackson, MO-IL
	Carroll County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Carter County Cass County	25 84	Cape Girardeau-Jackson, MO-IL Kansas City-Overland Park-Kansas City, MO-KS
	Cedar County	83	Joplin, MO
	Chariton County		Kansas City-Overland Park-Kansas City, MO-KS
	Christian County		Springfield, MO
	Clark County		Peoria-Canton, IL
	Clay County Clinton County	84	Kansas City-Overland Park-Kansas City, MO-KS Kansas City-Overland Park-Kansas City, MO-KS
	Cole County		Columbia, MO
	Cooper County		Columbia, MO
	Crawford County	160	St. Louis-St. Charles-Farmington, MO-IL
	Dade County		Springfield, MO
	Dallas County		Springfield, MO
	Daviess County DeKalb County		Kansas City-Overland Park-Kansas City, MO-KS Kansas City-Overland Park-Kansas City, MO-KS
	Dent County		Springfield, MO
	Douglas County		Springfield, MO
	Dunklin County		Jonesboro, AR
Missouri	Franklin County		St. Louis-St. Charles-Farmington, MO-IL
	Gasconade County Gentry County		St. Louis-St. Charles-Farmington, MO-IL Kansas City-Overland Park-Kansas City, MO-KS
	Greene County		Springfield, MO
	Grundy County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Harrison County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Henry County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Hickory County Holt County	84	Springfield, MO Kansas City-Overland Park-Kansas City, MO-KS
	Howard County	37	Columbia, MO
	Howell County		Springfield, MO
	Iron County		St. Louis-St. Charles-Farmington, MO-IL
	Jackson County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Jasper County Jefferson County	83	Joplin, MO St. Louis-St. Charles-Farmington, MO-IL
	Johnson County		Kansas City-Overland Park-Kansas City, MO-KS
	Knox County		Kansas City-Overland Park-Kansas City, MO-KS
	Laclede County	159	Springfield, MO
	Lafayette County		Kansas City-Overland Park-Kansas City, MO-KS
	Lawrence County Lewis County		Springfield, MO Springfield, IL
	Lincoln County		St. Louis-St. Charles-Farmington, MO-IL
	Linn County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Livingston County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Macon County		Kansas City-Overland Park-Kansas City, MO-KS
	Madison County Maries County	37	St. Louis-St. Charles-Farmington, MO-IL Columbia, MO
	Marion County		Springfield, IL
	McDonald County		Fayetteville-Springdale-Rogers, AR-MO
	Mercer County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Miller County	37	Columbia, MO
	Mississippi County Moniteau County		Cape Girardeau-Jackson, MO-IL Columbia MO
	Moniteau County Monroe County	37	Columbia, MO Columbia, MO
	Montgomery County		St. Louis-St. Charles-Farmington, MO-IL
	Morgan County	37	Columbia, MO
	New Madrid County		Cape Girardeau-Jackson, MO-IL
	Newton County Nodaway County		Joplin, MO Kansas City-Overland Park-Kansas City, MO-KS
	Oregon County	84	Springfield, MO
	Osage County	37	Columbia, MO
	Ozark County	159	Springfield, MO
	Pemiscot County		Jonesboro, AR
	Perry County	25	Cape Girardeau-Jackson, MO-IL Konses City, Overland Bark Konses City, MO KS
	Pettis County Phelps County		Kansas City-Overland Park-Kansas City, MO-KS Springfield, MO
	Phelps County Pike County		St. Louis-St. Charles-Farmington, MO-IL
	Platte County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Polk County	159	Springfield, MO
	Pulaski County	159	Springfield, MO
	Putnam County		Kansas City-Overland Park-Kansas City, MO-KS
	Ralls County Randolph County	158	Springfield, IL Columbia, MO
	Ray County		Kansas City-Overland Park-Kansas City, MO-KS
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	Reynolds County Ripley County		St. Louis-St. Charles-Farmington, MO-IL Cape Girardeau-Jackson, MO-IL
	Saline County		Kansas City-Overland Park-Kansas City, MO-KS
	Schuyler County		Kansas City-Overland Park-Kansas City, MO-KS
Missouri	Scotland County	126	Peoria-Canton, IL
	Scott County		Cape Girardeau-Jackson, MO-IL
	Shannon County Shelby County		Springfield, MO Columbia, MO
	St. Charles County		St. Louis-St. Charles-Farmington, MO-IL
	St. Clair County		Kansas City-Overland Park-Kansas City, MO-KS
	St. Francois County	160	St. Louis-St. Charles-Farmington, MO-IL
	St. Louis city		St. Louis-St. Charles-Farmington, MO-IL
	St. Louis County		St. Louis-St. Charles-Farmington, MO-IL St. Louis-St. Charles-Farmington, MO-IL
	Ste. Genevieve County Stoddard County		Cape Girardeau-Jackson, MO-IL
	Stone County		Springfield, MO
	Sullivan County	84	Kansas City-Overland Park-Kansas City, MO-KS
	Taney County		Springfield, MO
	Texas County Vernon County		Springfield, MO
	Warren County		Joplin, MO St. Louis-St. Charles-Farmington, MO-IL
	Washington County		St. Louis-St. Charles-Farmington, MO-IL
	Wayne County		Cape Girardeau-Jackson, MO-IL
	Webster County		Springfield, MO
	Worth County Wright County		Kansas City-Overland Park-Kansas City, MO-KS Springfield, MO
	Beaverhead County		Helena, MT
	Big Horn County		Billings, MT
	Blaine County		Great Falls, MT
	Broadwater County		Helena, MT
	Carbon County Carter County		Billings, MT Billings, MT
	Carter County Cascade County		Great Falls, MT
	Chouteau County		Great Falls, MT
	Custer County	18	Billings, MT
	Daniels County		Billings, MT
	Dawson County Deer Lodge County		Billings, MT
	Fallon County		Helena, MT Billings, MT
	Fergus County		Billings, MT
	Flathead County	111	Missoula, MT
	Gallatin County		Helena, MT
	Garfield County		Billings, MT Great Falls, MT
	Glacier County Golden Valley County		Billings, MT
	Granite County		Helena, MT
	Hill County		Great Falls, MT
	Jefferson County		Helena, MT
	Judith Basin County		Billings, MT Missoula, MT
	Lake County Lewis and Clark County		Helena, MT
	Liberty County		Great Falls, MT
Montana	Lincoln County		Missoula, MT
	Madison County		Helena, MT
	McCone County Meagher County		Billings, MT Helena, MT
	Mineral County		Missoula, MT
	Missoula County		Missoula, MT
	Musselshell County		Billings, MT
	Park County Petroleum County	73	Helena, MT Billings, MT
	Phillips County		Great Falls, MT
	Pondera County		Great Falls, MT
	Powder River County	18	Billings, MT
	Powell County		Helena, MT
	Prairie County Payalli County		Billings, MT Missoula, MT
	Ravalli County Richland County		Missoula, MT Billings, MT
	Roosevelt County		Billings, MT
	Rosebud County	18	Billings, MT
	Sanders County		Missoula, MT
	Sheridan County		Billings, MT Halana MT
	Silver Bow County Stillwater County		Helena, MT Billings, MT
	Sweet Grass County		Billings, MT
	Teton County	65	Great Falls, MT
	Toole County		Great Falls, MT
	Treasure County		Billings, MT
	Valley County Wheatland County		Billings, MT Helena, MT
Montana	Wibaux County		Billings, MT
	Yellowstone County	18	Billings, MT
	Adams County		Kearney, NE
	Antelope County		Sioux City-Vermillion, IA-NE-SD
	Arthur County Banner County		Kearney, NE Scotts Bluff, NE
	Blaine County		Kearney, NE
	Boone County		Omaha-Council Bluffs-Fremont, NE-IA
	Box Butte County	150	Scotts Bluff, NE
	Boyd County		Sioux City-Vermillion, IA-NE-SD
	Brown County		Rapid City, SD
	Buffalo County		Kearney, NE
	Burt County	120	Omaha-Council Bluffs-Fremont NF IA
	Burt County Butler County		Omaha-Council Bluffs-Fremont, NE-IA Omaha-Council Bluffs-Fremont, NE-IA
	Burt County Butler County Cass County	120	Omaha-Council Bluffs-Fremont, NE-IA Omaha-Council Bluffs-Fremont, NE-IA Omaha-Council Bluffs-Fremont, NE-IA
	Butler County	120 120 154	Omaha-Council Bluffs-Fremont, NE-IA

	Chamer Country	124	Donid City, SD
	Cherry County Cheyenne County		Rapid City, SD Scotts Bluff, NE
	Clay County	85	Kearney, NE
	Colfax County		Omaha-Council Bluffs-Fremont, NE-IA
	Cuming County Custer County		Omaha-Council Bluffs-Fremont, NE-IA Kearney, NE
	Dakota County	154	Sioux City-Vermillion, IA-NE-SD
	Dawes County		Rapid City, SD
	Dawson County		Kearney, NE
	Deuel County Dixon County		Scotts Bluff, NE Sioux City-Vermillion, IA-NE-SD
	Dodge County		Omaha-Council Bluffs-Fremont, NE-IA
	Douglas County	120	Omaha-Council Bluffs-Fremont, NE-IA
	Dundy County		Kearney, NE
	Fillmore County Franklin County		Lincoln, NE Kearney, NE
	Frontier County		Kearney, NE
	Furnas County	85	Kearney, NE
	Gage County		Lincoln, NE
	Garden County Garfield County		Scotts Bluff, NE Kearney, NE
	Gosper County		Kearney, NE
	Grant County		Rapid City, SD
	Greeley County		Kearney, NE
	Hall County Hamilton County		Kearney, NE Kearney, NE
	Harlan County		Kearney, NE
	Hayes County		Kearney, NE
	Hitchcock County Holt County		Kearney, NE Sioux City-Vermillion, IA-NE-SD
	Holt County Hooker County		Kearney, NE
Nebraska	Howard County	85	Kearney, NE
	Jefferson County		Lincoln, NE
	Johnson County Kearney County		Lincoln, NE Kearney, NE
	Keith County		Kearney, NE Kearney, NE
	Keya Paha County	134	Rapid City, SD
	Kimball County		Scotts Bluff, NE
	Knox County Lancaster County		Sioux City-Vermillion, IA-NE-SD Lincoln, NE
	Lincoln County		Kearney, NE
	Logan County	85	Kearney, NE
	Loup County		Kearney, NE
	Madison County McPherson County		Sioux City-Vermillion, IA-NE-SD Kearney, NE
	Merrick County		Kearney, NE
	Morrill County	150	Scotts Bluff, NE
	Nance County		Omaha-Council Bluffs-Fremont, NE-IA
	Nemaha County Nuckolls County		Lincoln, NE Kearney, NE
	Otoe County		Lincoln, NE
	Pawnee County		Lincoln, NE
	Perkins County Phelps County		Kearney, NE Kearney, NE
	Pierce County		Sioux City-Vermillion, IA-NE-SD
	Platte County		Omaha-Council Bluffs-Fremont, NE-IA
	Polk County		Omaha-Council Bluffs-Fremont, NE-IA
	Red Willow County Richardson County		Kearney, NE Lincoln, NE
	Rock County		Rapid City, SD
	Saline County	95	Lincoln, NE
	Sarpy County	120	Omaha-Council Bluffs-Fremont, NE-IA
	Saunders County Scotts Bluff County		Omaha-Council Bluffs-Fremont, NE-IA Scotts Bluff. NE
	Seward County		Lincoln, NE
	Sheridan County	150	Scotts Bluff, NE
	Sherman County		Kearney, NE
	Sioux County Stanton County		Scotts Bluff, NE Sioux City-Vermillion, IA-NE-SD
	Thayer County		Lincoln, NE
	Thomas County	85	Kearney, NE
	Thurston County		Sioux City-Vermillion, IA-NE-SD
	Valley County Washington County		Kearney, NE Omaha-Council Bluffs-Fremont, NE-IA
	Wayne County		Sioux City-Vermillion, IA-NE-SD
	Webster County	85	Kearney, NE
	Wheeler County		Sioux City-Vermillion, IA-NE-SD
	York County Carson City		Lincoln, NE Reno-Sparks, NV
	Churchill County	136	Reno-Sparks, NV
	Clark County	92	Las Vegas-Paradise-Pahrump, NV
	Douglas County Elko County		SacramentoArden-ArcadeTruckee, CA-NV Reno-Sparks, NV
	Esmeralda County		Las Vegas-Paradise-Pahrump, NV
	Eureka County	136	Reno-Sparks, NV
Name d	Humboldt County	136	Reno-Sparks, NV
Nevada	Lander County Lincoln County		Reno-Sparks, NV Las Vegas-Paradise-Pahrump, NV
	Lincoln County Lyon County		Reno-Sparks, NV
	Mineral County	136	Reno-Sparks, NV
	Nye County	92	Las Vegas-Paradise-Pahrump, NV
	Pershing County Storey County		Reno-Sparks, NV Reno-Sparks, NV
	Washoe County		Reno-Sparks, NV Reno-Sparks, NV
	White Pine County	136	Reno-Sparks, NV
	Belknap County	22	Boston-Worcester-Manchester, MA-NH
	Carroll County	22	Boston-Worcester-Manchester, MA-NH

	Cheshire County	22	Boston-Worcester-Manchester, MA-NH
	Coos County	22	Boston-Worcester-Manchester, MA-NH
New Hampshire	Grafton County	22	Boston-Worcester-Manchester, MA-NH
	Hillsborough County Merrimack County	22 22	Boston-Worcester-Manchester, MA-NH Boston-Worcester-Manchester, MA-NH
	Rockingham County	22	Boston-Worcester-Manchester, MA-NH
	Strafford County	22	Boston-Worcester-Manchester, MA-NH
	Sullivan County	22	Boston-Worcester-Manchester, MA-NH
	Atlantic County Bergen County		Philadelphia-Camden-Vineland, PA-NJ-DE-MD New York-Newark-Bridgeport, NY-NJ-CT-PA
	Burlington County		Philadelphia-Camden-Vineland, PA-NJ-DE-MD
	Camden County	127	Philadelphia-Camden-Vineland, PA-NJ-DE-MD
	Cape May County		Philadelphia-Camden-Vineland, PA-NJ-DE-MD
	Cumberland County Essex County		Philadelphia-Camden-Vineland, PA-NJ-DE-MD New York-Newark-Bridgeport, NY-NJ-CT-PA
	Gloucester County		Philadelphia-Camden-Vineland, PA-NJ-DE-MD
	Hudson County		New York-Newark-Bridgeport, NY-NJ-CT-PA
New Jersey	Hunterdon County		New York-Newark-Bridgeport, NY-NJ-CT-PA
new Jersey	Mercer County Middlesex County		New York-Newark-Bridgeport, NY-NJ-CT-PA New York-Newark-Bridgeport, NY-NJ-CT-PA
	Monmouth County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Morris County	118	New York-Newark-Bridgeport, NY-NJ-CT-PA
	Ocean County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Passaic County Salem County		New York-Newark-Bridgeport, NY-NJ-CT-PA Philadelphia-Camden-Vineland, PA-NJ-DE-MD
	Somerset County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Sussex County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Union County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Warren County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Bernalillo County Catron County	5 128	Albuquerque, NM Phoenix-Mesa-Scottsdale, AZ
	Chaves County	107	Midland-Odessa, TX
	Cibola County	5	Albuquerque, NM
	Colfax County		Pueblo, CO
	Curry County De Baca County	7	Amarillo, TX Amarillo, TX
	Dona Ana County	-	El Paso, TX
	Eddy County	107	Midland-Odessa, TX
	Grant County		
	Guadalupe County Harding County	147	Santa Fe-Espanola, NM Amarillo, TX
	Hidalgo County		Phoenix-Mesa-Scottsdale, AZ
	Lea County		Midland-Odessa, TX
	Lincoln County		El Paso, TX
New Mexico	Los Alamos County		Santa Fe-Espanola, NM
New Mexico	Luna County McKinley County		El Paso, TX Phoenix-Mesa-Scottsdale, AZ
	Mora County		Santa Fe-Espanola, NM
	Otero County		El Paso, TX
	Quay County	7	Amarillo, TX Santa Fe-Espanola, NM
	Rio Arriba County Roosevelt County	147	Amarillo, TX
	San Juan County		Farmington, NM
	San Miguel County		Santa Fe-Espanola, NM
	Sandoval County	5	Albuquerque, NM
	Santa Fe County Sierra County		Santa Fe-Espanola, NM El Paso, TX
	Socorro County	5	Albuquerque, NM
	Taos County		Santa Fe-Espanola, NM
	Torrance County	5	
	Union County	7	Amarillo, TX
	Valencia County Albany County	5	Albuquerque, NM Albany-Schenectady-Amsterdam, NY
	Allegany County	23	
	Bronx County	118	New York-Newark-Bridgeport, NY-NJ-CT-PA
	Broome County		Syracuse-Auburn, NY
	Cattaraugus County Cayuga County		Buffalo-Niagara-Cattaraugus, NY Syracuse-Auburn, NY
	Chautauqua County		Buffalo-Niagara-Cattaraugus, NY
New York	Chemung County	139	Rochester-Batavia-Seneca Falls, NY
	Chenango County		Syracuse-Auburn, NY
	Clinton County Columbia County	162	Syracuse-Auburn, NY Albany-Schenectady-Amsterdam, NY
	Cortland County		Syracuse-Auburn, NY
	Delaware County	162	Syracuse-Auburn, NY
	Dutchess County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Erie County	23	
	Essex County Franklin County		Syracuse-Auburn, NY Syracuse-Auburn, NY
	Fulton County	4	Albany-Schenectady-Amsterdam, NY
	Genesee County		Rochester-Batavia-Seneca Falls, NY
	Greene County	4	Albany-Schenectady-Amsterdam, NY
	Hamilton County Herkimer County	4	Albany-Schenectady-Amsterdam, NY Syracuse-Auburn, NY
	Jefferson County		Syracuse-Auburn, NY
	Kings County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Lewis County	162	Syracuse-Auburn, NY
	Livingston County		Rochester-Batavia-Seneca Falls, NY
		162	Syracuse-Auburn, NY
	Madison County	120	
	Monroe County		Rochester-Batavia-Seneca Falls, NY Albany-Schenectady-Amsterdam, NY
		4	Rochester-Batavia-Seneca Falls, NY Albany-Schenectady-Amsterdam, NY New York-Newark-Bridgeport, NY-NJ-CT-PA
	Monroe County Montgomery County Nassau County New York County	4 118 118	Albany-Schenectady-Amsterdam, NY New York-Newark-Bridgeport, NY-NJ-CT-PA New York-Newark-Bridgeport, NY-NJ-CT-PA
	Monroe County Montgomery County Nassau County New York County Niagara County	4 118 118 23	Albany-Schenectady-Amsterdam, NY New York-Newark-Bridgeport, NY-NJ-CT-PA New York-Newark-Bridgeport, NY-NJ-CT-PA Buffalo-Niagara-Cattaraugus, NY
	Monroe County Montgomery County Nassau County New York County	4 118 118 23 162	Albany-Schenectady-Amsterdam, NY New York-Newark-Bridgeport, NY-NJ-CT-PA New York-Newark-Bridgeport, NY-NJ-CT-PA

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	Orange County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Orleans County		Rochester-Batavia-Seneca Falls, NY Syracuse-Auburn, NY
New York	Oswego County Otsego County		Syracuse-Auburn, NY
New TOIK	Putnam County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Queens County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Rensselaer County	4	Albany-Schenectady-Amsterdam, NY
	Richmond County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Rockland County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Saratoga County Schenectady County	4	Albany-Schenectady-Amsterdam, NY Albany-Schenectady-Amsterdam, NY
	Schoharie County	4	Albany-Schenectady-Amsterdam, NY
	Schuyler County		Rochester-Batavia-Seneca Falls, NY
	Seneca County		Rochester-Batavia-Seneca Falls, NY
	St. Lawrence County	162	Syracuse-Auburn, NY
	Steuben County		Rochester-Batavia-Seneca Falls, NY
	Suffolk County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Sullivan County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Tioga County Tompkins County		Syracuse-Auburn, NY Syracuse-Auburn, NY
	Ulster County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Warren County	4	Albany-Schenectady-Amsterdam, NY
	Washington County	4	Albany-Schenectady-Amsterdam, NY
	Wayne County		Rochester-Batavia-Seneca Falls, NY
	Westchester County	118	
	Wyoming County		Rochester-Batavia-Seneca Falls, NY
	Yates County		Rochester-Batavia-Seneca Falls, NY
	Alamance County Alexander County	66 31	GreensboroWinston-SalemHigh Point, NC Charlotte-Gastonia-Salisbury, NC-SC
	Alleghany County	66	GreensboroWinston-SalemHigh Point, NC
	Anson County	31	Charlotte-Gastonia-Salisbury, NC-SC
	Ashe County		Asheville-Brevard, NC
	Avery County	10	Asheville-Brevard, NC
	Beaufort County	67	Greenville, NC
	Bertie County		Virginia Beach-Norfolk-Newport News, VA-NC
	Bladen County		Raleigh-Durham-Cary, NC
	Brunswick County Buncombe County		Myrtle Beach-Conway-Georgetown, SC Asheville-Brevard, NC
	Burke County	31	Charlotte-Gastonia-Salisbury, NC-SC
	Cabarrus County	31	Charlotte-Gastonia-Salisbury, NC-SC
	Caldwell County	31	Charlotte-Gastonia-Salisbury, NC-SC
	Camden County	173	Virginia Beach-Norfolk-Newport News, VA-NC
	Carteret County	67	Greenville, NC
	Caswell County	66	GreensboroWinston-SalemHigh Point, NC
	Catawba County	31	Charlotte-Gastonia-Salisbury, NC-SC
	Chatham County Cherokee County	133	Raleigh-Durham-Cary, NC Atlanta-Sandy Springs-Gainesville, GA-AL
	Chowan County		Virginia Beach-Norfolk-Newport News, VA-NC
	Clay County	11	Atlanta-Sandy Springs-Gainesville, GA-AL
	Cleveland County	31	Charlotte-Gastonia-Salisbury, NC-SC
	Columbus County		Myrtle Beach-Conway-Georgetown, SC
North Carolina	Craven County	67	Greenville, NC
	Cumberland County		Raleigh-Durham-Cary, NC
	Currituck County	173	
	Dare County Davidson County	66	Virginia Beach-Norfolk-Newport News, VA-NC GreensboroWinston-SalemHigh Point, NC
	Davie County		GreensboroWinston-SalemHigh Point, NC
	Duplin County		Raleigh-Durham-Cary, NC
	Durham County		Raleigh-Durham-Cary, NC
	Edgecombe County	133	Raleigh-Durham-Cary, NC
	Forsyth County	66	
	Franklin County		Raleigh-Durham-Cary, NC
	Gaston County Gates County		Charlotte-Gastonia-Salisbury, NC-SC Virginia Beach-Norfolk-Newport News, VA-NC
	Graham County Granville County	11	Atlanta-Sandy Springs-Gainesville, GA-AL Raleigh-Durham-Cary, NC
		11 133	Atlanta-Sandy Springs-Gainesville, GA-AL Raleigh-Durham-Cary, NC Greenville, NC
	Granville County Greene County Guilford County	11 133 67 66	Atlanta-Sandy Springs-Gainesville, GA-AL Raleigh-Durham-Cary, NC Greenville, NC GreensboroWinston-SalemHigh Point, NC
	Granville County Greene County Guilford County Halifax County	11 133 67 66 133	Atlanta-Sandy Springs-Gainesville, GA-AL Raleigh-Durham-Cary, NC GreensboroWinston-SalemHigh Point, NC Raleigh-Durham-Cary, NC
	Granville County Greene County Guilford County Halifax County Harnett County	11 133 67 66 133 133	Atlanta-Sandy Springs-Gainesville, GA-AL Raleigh-Durham-Cary, NC Greenville, NC GreensboroWinston-SalemHigh Point, NC Raleigh-Durham-Cary, NC Raleigh-Durham-Cary, NC
	Granville County Greene County Guilford County Halifax County Harnett County Haywood County	11 133 67 66 133 133 10	Atlanta-Sandy Springs-Gainesville, GA-AL Raleigh-Durham-Cary, NC Greenville, NC GreensboroWinston-SalemHigh Point, NC Raleigh-Durham-Cary, NC Raleigh-Durham-Cary, NC Asheville-Brevard, NC
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	Granville County Greene County Guilford County Halifax County Harnett County Haywood County Henderson County Hertford County	11 133 67 66 133 133 10 10 10 173	Atlanta-Sandy Springs-Gainesville, GA-AL Raleigh-Durham-Cary, NC Greenville, NC GreensboroWinston-SalemHigh Point, NC Raleigh-Durham-Cary, NC Raleigh-Durham-Cary, NC Asheville-Brevard, NC
	Granville County Greene County Guilford County Halfax County Harnett County Haywood County Henderson County	11 133 67 66 133 133 10 10 10 173	Atlanta-Sandy Springs-Gainesville, GA-AL Raleigh-Durham-Cary, NC GreensboroWinston-SalemHigh Point, NC Raleigh-Durham-Cary, NC Raleigh-Durham-Cary, NC Asheville-Brevard, NC Asheville-Brevard, NC Virginia Beach-Norfolk-Newport News, VA-NC Raleigh-Durham-Cary, NC
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	Granville County Greene County Guilford County Halifax County Harnett County Harnett County Hentford County Hertford County Hoke County Hoke County Hyde County Iredell County Jackson County Johnston County Johnston County Lee County Lenoir County	$\begin{array}{c} 11 \\ 133 \\ 67 \\ 66 \\ 133 \\ 133 \\ 10 \\ 10 \\ 173 \\ 133 \\ 173 \\ 31 \\ 10 \\ 133 \\ 67 \\ 133 \\ 67 \end{array}$	Atlanta-Sandy Springs-Gainesville, GA-AL Raleigh-Durham-Cary, NC GreensboroWinston-SalemHigh Point, NC Raleigh-Durham-Cary, NC Raleigh-Durham-Cary, NC Asheville-Brevard, NC Virginia Beach-Norfolk-Newport News, VA-NC Raleigh-Durham-Cary, NC Virginia Beach-Norfolk-Newport News, VA-NC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC Raleigh-Durham-Cary, NC Greenville, NC Raleigh-Durham-Cary, NC Greenville, NC
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	Granville County Greene County Guilford County Halifax County Harnett County Harnett County Hertford County Hertford County Hoke County Hoke County Hoke County Hoke County Hoke County Iredell County Jones County Jones County Lenoir County Macon County Macon County Macon County Macon County Macon County Macon County Machenburg County McChenburg County Micchell County Montgomery County Mash County Nash County Northampton County Northampton County	$\begin{array}{c} 11\\ 133\\ 67\\ 66\\ 133\\ 133\\ 10\\ 10\\ 173\\ 133\\ 173\\ 31\\ 10\\ 133\\ 67\\ 31\\ 10\\ 133\\ 67\\ 31\\ 10\\ 10\\ 67\\ 31\\ 10\\ 66\\ 133\\ 133\\ 115\\ 133\\ 67\\ 133\\ 135\\ 115\\ 367\\ 67\\ 133\\ 135\\ 115\\ 367\\ 67\\ 133\\ 135\\ 115\\ 367\\ 67\\ 133\\ 135\\ 115\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 135\\ 135\\ 135\\ 135\\ 135\\ 135$	Atlanta-Sandy Springs-Gainesville, GA-AL Raleigh-Durham-Cary, NC GreensboroWinston-SalemHigh Point, NC Raleigh-Durham-Cary, NC Raleigh-Durham-Cary, NC Asheville-Brevard, NC Virginia Beach-Norfolk-Newport News, VA-NC Raleigh-Durham-Cary, NC Virginia Beach-Norfolk-Newport News, VA-NC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC Raleigh-Durham-Cary, NC Greenville, NC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC Greenville, NC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC Greenville, NC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC Greensburg, NC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Sali
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	Granville County Greene County Guilford County Halifax County Harnett County Harnett County Hertford County Hertford County Hoke County Hoke County Hoke County Hoke County Hoke County Iredell County Jones County Jones County Lenoir County Macon County Macon County Macon County Macon County Macon County Macon County Machenburg County McChenburg County Micchell County Montgomery County Mash County Nash County Northampton County Northampton County	$\begin{array}{c} 11\\ 133\\ 67\\ 66\\ 133\\ 133\\ 10\\ 10\\ 173\\ 133\\ 173\\ 31\\ 10\\ 133\\ 67\\ 31\\ 10\\ 133\\ 67\\ 31\\ 10\\ 10\\ 67\\ 31\\ 10\\ 66\\ 133\\ 133\\ 115\\ 133\\ 67\\ 133\\ 135\\ 115\\ 367\\ 67\\ 133\\ 135\\ 115\\ 367\\ 67\\ 133\\ 135\\ 115\\ 367\\ 67\\ 133\\ 135\\ 115\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 155\\ 133\\ 67\\ 133\\ 135\\ 135\\ 135\\ 135\\ 135\\ 135\\ 135$	Atlanta-Sandy Springs-Gainesville, GA-AL Raleigh-Durham-Cary, NC GreensboroWinston-SalemHigh Point, NC Raleigh-Durham-Cary, NC Raleigh-Durham-Cary, NC Asheville-Brevard, NC Asheville-Brevard, NC Virginia Beach-Norfolk-Newport News, VA-NC Raleigh-Durham-Cary, NC Virginia Beach-Norfolk-Newport News, VA-NC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC Raleigh-Durham-Cary, NC Greenville, NC Raleigh-Durham-Cary, NC Greenville, NC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC Greenville, NC Charlotte-Gastonia-Salisbury, NC-SC Asheville-Brevard, NC GreensboroWinston-SalemHigh Point, NC Raleigh-Durham-Cary, NC Raleigh-Durham-Cary, NC Myrtle Beach-Conway-Georgetown, SC Raleigh-Durham-Cary, NC Greenville, NC Charlotte-Gastonia-Cary, NC Raleigh-Durham-Cary, NC Myrtle Beach-Conway-Georgetown, SC Raleigh-Durham-Cary, NC Greenville, NC Craenville, NC Charlotte-Gastonia-Cary, NC Greenville, NC

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	Pender County		Myrtle Beach-Conway-Georgetown, SC
	Perquimans County Person County		Virginia Beach-Norfolk-Newport News, VA-NC Raleigh-Durham-Cary, NC
	Pitt County	67	Greenville, NC
North Carolina	Polk County		Greenville-Spartanburg-Anderson, SC
	Randolph County		GreensboroWinston-SalemHigh Point, NC
	Richmond County		Raleigh-Durham-Cary, NC
	Robeson County		Raleigh-Durham-Cary, NC Greensbore Winston Selem High Point NC
	Rockingham County Rowan County		GreensboroWinston-SalemHigh Point, NC Charlotte-Gastonia-Salisbury, NC-SC
	Rutherford County		Charlotte-Gastonia-Salisbury, NC-SC
	Sampson County		Raleigh-Durham-Cary, NC
	Scotland County		Raleigh-Durham-Cary, NC
	Stanly County		Charlotte-Gastonia-Salisbury, NC-SC
	Stokes County		GreensboroWinston-SalemHigh Point, NC
	Surry County	66	GreensboroWinston-SalemHigh Point, NC
	Swain County		Asheville-Brevard, NC
	Transylvania County		Asheville-Brevard, NC
	Tyrrell County		Virginia Beach-Norfolk-Newport News, VA-NC
	Union County Vance County	31	Charlotte-Gastonia-Salisbury, NC-SC Raleigh-Durham-Cary, NC
	Wake County		Raleigh-Durham-Cary, NC
	Warren County		Raleigh-Durham-Cary, NC
	Washington County		Greenville, NC
	Watauga County	10	Asheville-Brevard, NC
	Wayne County		Raleigh-Durham-Cary, NC
	Wilkes County		GreensboroWinston-SalemHigh Point, NC
	Wilson County		Raleigh-Durham-Cary, NC
	Yadkin County		GreensboroWinston-SalemHigh Point, NC
	Yancey County		Asheville-Brevard, NC
	Adams County Barnes County		Aberdeen, SD Fargo-Wahpeton, ND-MN
	Benson County		Grand Forks, ND-MN
	Billings County		Bismarck, ND
	Bottineau County		Minot, ND
	Bowman County		Bismarck, ND
	Burke County		Minot, ND
	Burleigh County		Bismarck, ND
	Cass County		Fargo-Wahpeton, ND-MN
	Cavalier County		Grand Forks, ND-MN
	Dickey County Divide County		Fargo-Wahpeton, ND-MN Minot, ND
	Dunn County		Bismarck, ND
	Eddy County		Grand Forks, ND-MN
	Emmons County		Bismarck, ND
	Foster County		Fargo-Wahpeton, ND-MN
	Golden Valley County	18	Billings, MT
	Grand Forks County		Grand Forks, ND-MN
	Grant County		Bismarck, ND
	Griggs County		Fargo-Wahpeton, ND-MN
	Hettinger County		Bismarck, ND Bismarck, ND
North Dakota	Kidder County LaMoure County		Fargo-Wahpeton, ND-MN
	Logan County		Bismarck, ND
	McHenry County		Minot, ND
	McIntosh County		Bismarck, ND
	McKenzie County	110	Minot, ND
	McLean County		Bismarck, ND
	Mercer County		Bismarck, ND
	Morton County		Bismarck, ND
	Mountrail County		Minot, ND Grand Forke, ND, MN
	Nelson County Oliver County	63 20	Grand Forks, ND-MN Bismarck, ND
	Pembina County	63	
	Pierce County		Minot, ND
	Ramsey County	63	
	Ransom County		Fargo-Wahpeton, ND-MN
	Renville County		Minot, ND
	Richland County		Fargo-Wahpeton, ND-MN
	Rolette County		Minot, ND Fargo-Wahpeton, ND-MN
	Sargent County Sheridan County		Fargo-Wahpeton, ND-MN Fargo-Wahpeton, ND-MN
	Sioux County	1	Aberdeen, SD
	Slope County		Bismarck, ND
	Stark County	20	Bismarck, ND
	Steele County	63	Grand Forks, ND-MN
	Stutsman County	55	Fargo-Wahpeton, ND-MN
	Towner County		Minot, ND
North Dakota	Traill County	63	Grand Forks, ND-MN
	Walsh County	63	Grand Forks, ND-MN
	Ward County Wells County		Minot, ND Fargo-Wahpeton, ND-MN
	Wells County Williams County		Minot, ND
	Adams County	33	Cincinnati-Middletown-Wilmington, OH-KY-IN
	Allen County		
	Ashland County	35	Cleveland-Akron-Elvria, OH
	Ashtabula County	35	Cleveland-Akron-Elyria, OH
	Athens County	40	Columbus-Marion-Chillicothe, OH
		44	Dayton-Springfield-Greenville, OH
	Auglaize County		Pittsburgh-New Castle, PA
	Belmont County	129	Fittsburgh-New Castle, FA
	Belmont County Brown County	33	Cincinnati-Middletown-Wilmington, OH-KY-IN
	Belmont County Brown County Butler County	33 33	Cincinnati-Middletown-Wilmington, OH-KY-IN Cincinnati-Middletown-Wilmington, OH-KY-IN
	Belmont County Brown County Butler County Carroll County	33 33 35	Cincinnati-Middletown-Wilmington, OH-KY-IN Cincinnati-Middletown-Wilmington, OH-KY-IN Cleveland-Akron-Elyria, OH
	Belmont County Brown County Butler County Carroll County Champaign County	33 33 35 44	Cincinnati-Middletown-Wilmington, OH-KY-IN Cincinnati-Middletown-Wilmington, OH-KY-IN Cleveland-Akron-Elyria, OH Dayton-Springfield-Greenville, OH
	Belmont County Brown County Butler County Carroll County	33 33 35	Cincinnati-Middletown-Wilmington, OH-KY-IN Cincinnati-Middletown-Wilmington, OH-KY-IN Cleveland-Akron-Elyria, OH

	Colombiana Country	25	Classifierd Alexan Electric OII
	Columbiana County Coshocton County		Cleveland-Akron-Elyria, OH Columbus-Marion-Chillicothe, OH
	Crawford County		Cleveland-Akron-Elyria, OH
	Cuyahoga County		Cleveland-Akron-Elyria, OH
	Darke County		Dayton-Springfield-Greenville, OH
	Defiance County		Toledo-Fremont, OH
	Delaware County	40	Columbus-Marion-Chillicothe, OH
	Erie County		Cleveland-Akron-Elyria, OH
	Fairfield County		Columbus-Marion-Chillicothe, OH
	Fayette County		Columbus-Marion-Chillicothe, OH
	Franklin County		Columbus-Marion-Chillicothe, OH
	Fulton County Gallia County		Toledo-Fremont, OH Columbus-Marion-Chillicothe, OH
	Geauga County		Cleveland-Akron-Elyria, OH
	Greene County		Dayton-Springfield-Greenville, OH
	Guernsey County		Columbus-Marion-Chillicothe, OH
	Hamilton County	33	Cincinnati-Middletown-Wilmington, OH-KY-IN
	Hancock County		Toledo-Fremont, OH
	Hardin County		Columbus-Marion-Chillicothe, OH
	Harrison County		Cleveland-Akron-Elyria, OH
	Henry County		Toledo-Fremont, OH
	Highland County Hocking County		Cincinnati-Middletown-Wilmington, OH-KY-IN Columbus-Marion-Chillicothe, OH
	Holmes County		Cleveland-Akron-Elyria, OH
	Huron County		Cleveland-Akron-Elyria, OH
	Jackson County		Columbus-Marion-Chillicothe, OH
	Jefferson County		Pittsburgh-New Castle, PA
	Knox County	40	Columbus-Marion-Chillicothe, OH
	Lake County		Cleveland-Akron-Elyria, OH
Ohio	Lawrence County		Charleston, WV
	Licking County		Columbus-Marion-Chillicothe, OH
	Logan County		Columbus-Marion-Chillicothe, OH Cleveland-Akron-Elyria, OH
	Lorain County Lucas County		Toledo-Fremont, OH
	Madison County		Columbus-Marion-Chillicothe, OH
	Mahoning County		Cleveland-Akron-Elyria, OH
	Marion County		Columbus-Marion-Chillicothe, OH
	Medina County	35	Cleveland-Akron-Elyria, OH
	Meigs County		Columbus-Marion-Chillicothe, OH
	Mercer County		Dayton-Springfield-Greenville, OH
	Miami County		Dayton-Springfield-Greenville, OH
	Monroe County		Pittsburgh-New Castle, PA
	Montgomery County Morgan County		Dayton-Springfield-Greenville, OH Columbus-Marion-Chillicothe, OH
	Morrow County		Columbus-Marion-Chillicothe, OH
	Muskingum County		Columbus-Marion-Chillicothe, OH
	Noble County	-	Columbus-Marion-Chillicothe, OH
	Ottawa County		Toledo-Fremont, OH
	Paulding County		Toledo-Fremont, OH
	Perry County		Columbus-Marion-Chillicothe, OH
	Pickaway County		Columbus-Marion-Chillicothe, OH
	Pike County		Columbus-Marion-Chillicothe, OH
	Portage County Proble County		Cleveland-Akron-Elyria, OH Dayton-Springfield-Greenville, OH
	Preble County Putnam County		Dayton-Springfield-Greenville, OH
	Richland County		Cleveland-Akron-Elyria, OH
	Ross County		Columbus-Marion-Chillicothe, OH
	Sandusky County		Toledo-Fremont, OH
	Scioto County	40	Columbus-Marion-Chillicothe, OH
	Seneca County		Toledo-Fremont, OH
	Shelby County		Dayton-Springfield-Greenville, OH
	Stark County		Cleveland-Akron-Elyria, OH
	Summit County		Cleveland-Akron-Elyria, OH
	Trumbull County Tuscarawas County		Cleveland-Akron-Elyria, OH Cleveland-Akron-Elyria, OH
	Union County		Columbus-Marion-Chillicothe, OH
	Van Wert County		Dayton-Springfield-Greenville, OH
	Vinton County		Columbus-Marion-Chillicothe, OH
	Warren County		Cincinnati-Middletown-Wilmington, OH-KY-IN
	Washington County		Charleston, WV
	Wayne County		Cleveland-Akron-Elyria, OH
	Williams County Wood County		Toledo-Fremont, OH Toledo-Fremont, OH
	Wood County		Toledo-Fremont, OH
	Wyandot County	100	Fayetteville-Springdale-Rogers, AR-MO
	Wyandot County Adair County	57	
	Wyandot County Adair County Alfalfa County		Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County	119 42	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX
	Adair County Alfalfa County Atoka County Beaver County	119 42 119	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County	119 42 119 119	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County	119 42 119 119 119	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County Bryan County	119 42 119 119 119 42	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County Bryan County Caddo County	119 42 119 119 119 42 119	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County Bryan County Caddo County Canadian County	119 42 119 119 119 42 119 119 119	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County Bryan County Caddo County	119 42 119 119 119 42 119 119 119	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County Bryan County Caddo County Canadian County Carter County	119 42 119 119 119 42 119 119 119 119 170	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Bryan County Caddo County Canadian County Carter County Checkee County Choctaw County Cimaron County	$\begin{array}{r} 119 \\ 42 \\ 119 \\ 119 \\ 119 \\ 42 \\ 119 \\ 119 \\ 119 \\ 119 \\ 170 \\ 42 \\ 119 \end{array}$	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County Caddo County Canadian County Carter County Chorokee County Chorokee County Choctaw County Cleveland County Cleveland County	$\begin{array}{c} 119 \\ 42 \\ 119 \\ 119 \\ 119 \\ 42 \\ 119 \\ 119 \\ 119 \\ 119 \\ 170 \\ 42 \\ 119 \\ 119 \\ 119 \\ 119 \end{array}$	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County Caddo County Cando County Canadian County Carter County Cherokee County Cherokee County Cherokee County Cimarron County Cleveland County Coal County	$\begin{array}{c} 119\\ 42\\ 119\\ 119\\ 119\\ 42\\ 119\\ 119\\ 119\\ 170\\ 42\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 11$	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Bryan County Caddo County Canadian County Carace County Cherokee County Choctaw County Cimarron County Cleveland County Coal County Coal County Coal County Comarche County	$\begin{array}{c} 119\\ 42\\ 119\\ 119\\ 119\\ 42\\ 119\\ 119\\ 119\\ 170\\ 42\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 11$	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County Caddo County Caddo County Canadian County Carter County Choctaw County Choctaw County Cineron County Cleveland County Comarche County Comarche County Coton County	$\begin{array}{c} 119 \\ 42 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 170 \\ 42 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \end{array}$	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County Bryan County Caddo County Canadian County Carter County Chortaw County Chortaw County Choctaw County Cleveland County Cleveland County Comanche County Coton County Coton County Coton County Craig County	$\begin{array}{c} 119 \\ 42 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 170 \\ 42 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 119 \\ 1170 \\ $	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Blaine County Bryan County Caddo County Canadian County Canadian County Carter County Cherokee County Cherokee County Cherokee County Cleveland County Coal County Coal County Comanche County Cotton County Craig County Creek County	$\begin{array}{c} 119\\ 42\\ 119\\ 119\\ 119\\ 42\\ 119\\ 119\\ 119\\ 170\\ 42\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 11$	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Tulsa-Bartlesville, OK Tulsa-Bartlesville, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County Bryan County Caddo County Canadian County Carter County Chortaw County Chortaw County Choctaw County Cleveland County Cleveland County Comanche County Coton County Coton County Coton County Craig County	$\begin{array}{c} 119\\ 42\\ 119\\ 119\\ 119\\ 42\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 11$	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beckham County Blaine County Canadian County Canadian County Canadian County Canadian County Carter County Cherokee County Choctaw County Cloveland County Cloveland County Coal County Comarche County Cotton County Cotton County Creek County Creek County Custer County	$\begin{array}{c} 119\\ 42\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 11$	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK
	Adair County Alfalfa County Atoka County Beaver County Beaver County Blaine County Bryan County Caddo County Canadian County Canadian County Carater County Cherokee County Choctaw County Cleveland County Cleveland County Cola County Comanche County Coton County Craig County Creak County Creak County Custer County Delaware County	$\begin{array}{c} 119\\ 42\\ 119\\ 119\\ 119\\ 42\\ 119\\ 119\\ 120\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 119\\ 11$	Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX Oklahoma City-Shawnee, OK Fujsa-Bartlesville, OK Tulsa-Bartlesville, OK Fayetteville-Springdale-Rogers, AR-MO

	Garfield County	119	
	Garvin County Grady County	119	Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK
	Grant County		Oklahoma City-Shawnee, OK
	Greer County		Oklahoma City-Shawnee, OK
	Harmon County		Oklahoma City-Shawnee, OK
	Harper County		Oklahoma City-Shawnee, OK
	Haskell County		Tulsa-Bartlesville, OK
	Hughes County		Oklahoma City-Shawnee, OK
	Jackson County Jefferson County		Oklahoma City-Shawnee, OK Oklahoma City-Shawnee, OK
	Johnston County		Oklahoma City-Shawnee, OK
	Kay County		Wichita-Winfield, KS
	Kingfisher County		Oklahoma City-Shawnee, OK
	Kiowa County		Oklahoma City-Shawnee, OK
Oklahoma	Latimer County	59	
	Le Flore County	59	Fort Smith, AR-OK
	Lincoln County		Oklahoma City-Shawnee, OK
	Logan County		Oklahoma City-Shawnee, OK
	Love County		Oklahoma City-Shawnee, OK
	Major County		Oklahoma City-Shawnee, OK
	Marshall County Mayes County		Oklahoma City-Shawnee, OK Tulsa-Bartlesville, OK
	McClain County		Oklahoma City-Shawnee, OK
	McCurtain County		Texarkana, TX-Texarkana, AR
	McIntosh County		Tulsa-Bartlesville, OK
	Murray County		Oklahoma City-Shawnee, OK
	Muskogee County	170	Tulsa-Bartlesville, OK
	Noble County		Tulsa-Bartlesville, OK
	Nowata County		Tulsa-Bartlesville, OK
	Okfuskee County		Tulsa-Bartlesville, OK
	Oklahoma County Okmulgee County		Oklahoma City-Shawnee, OK Tulsa-Bartlesville, OK
	Osage County		Tulsa-Bartlesville, OK
	Ottawa County	83	Joplin, MO
	Pawnee County		Tulsa-Bartlesville, OK
	Payne County		Tulsa-Bartlesville, OK
	Pittsburg County		Tulsa-Bartlesville, OK
	Pontotoc County	119	Oklahoma City-Shawnee, OK
	Pottawatomie County		Oklahoma City-Shawnee, OK
	Pushmataha County	42	
	Roger Mills County		Oklahoma City-Shawnee, OK
	Rogers County		Tulsa-Bartlesville, OK
	Seminole County	59	Oklahoma City-Shawnee, OK
	Sequoyah County Stephens County		Fort Smith, AR-OK Oklahoma City-Shawnee, OK
	Texas County		Oklahoma City-Shawnee, OK
	Tillman County		Oklahoma City-Shawnee, OK
	Tulsa County		Tulsa-Bartlesville, OK
	Wagoner County	170	Tulsa-Bartlesville, OK
	Washington County		Tulsa-Bartlesville, OK
	Washita County		Oklahoma City-Shawnee, OK
	Woods County		Oklahoma City-Shawnee, OK
	Woodward County		Oklahoma City-Shawnee, OK
	Baker County	124	
	Benton County Clackamas County	-	Portland-Vancouver-Beaverton, OR-WA
	Clatsop County	101	Portland-Vancouver-Beaverton, OR-WA
	Columbia County		Portland-Vancouver-Beaverton, OR-WA
	Coos County		Eugene-Springfield, OR
	Crook County	17	Bend-Prineville, OR
	Curry County		San Jose-San Francisco-Oakland, CA
0	Deschutes County		Bend-Prineville, OR
Oregon	Douglas County		Eugene-Springfield, OR
	Gilliam County		Pendleton-Hermiston, OR
	Grant County Harney County	124	Pendleton-Hermiston, OR Bend-Prineville, OR
	Hood River County		Portland-Vancouver-Beaverton, OR-WA
	Jackson County		Eugene-Springfield, OR
	Jefferson County		Bend-Prineville, OR
	Josephine County		Eugene-Springfield, OR
	Klamath County	135	Redding, CA
	Lake County	17	Bend-Prineville, OR
	Lane County		Eugene-Springfield, OR
	Lincoln County		Portland-Vancouver-Beaverton, OR-WA
	Linn County		Portland-Vancouver-Beaverton, OR-WA
	Malheur County		Boise City-Nampa, ID Portland Vancouver Response OP WA
	Marion County Morrow County		Portland-Vancouver-Beaverton, OR-WA Pendleton-Hermiston, OR
	Multnomah County		Portland-Vancouver-Beaverton, OR-WA
	Polk County		Portland-Vancouver-Beaverton, OR-WA
Oregon	Sherman County		Portland-Vancouver-Beaverton, OR-WA
	Tillamook County		Portland-Vancouver-Beaverton, OR-WA
	Umatilla County		Pendleton-Hermiston, OR
	Union County	124	Pendleton-Hermiston, OR
	Wallowa County		Pendleton-Hermiston, OR
	Wasco County		Portland-Vancouver-Beaverton, OR-WA
		121	Portland-Vancouver-Beaverton, OR-WA
	Washington County		D II I II OF
	Washington County Wheeler County	124	Pendleton-Hermiston, OR
	Washington County Wheeler County Yamhill County	124 131	Portland-Vancouver-Beaverton, OR-WA
	Washington County Wheeler County Yamhill County Adams County	124 131 70	Portland-Vancouver-Beaverton, OR-WA Harrisburg-Carlisle-Lebanon, PA
	Washington County Wheeler County Yamhill County Adams County Allegheny County	124 131 70 129	Portland-Vancouver-Beaverton, OR-WA Harrisburg-Carlisle-Lebanon, PA Pittsburgh-New Castle, PA
	Washington County Wheeler County Yamhill County Adams County Allegheny County Armstrong County	124 131 70 129 129	Portland-Vancouver-Beaverton, OR-WA Harrisburg-Carlisle-Lebanon, PA Pittsburgh-New Castle, PA Pittsburgh-New Castle, PA
	Washington County Wheeler County Yamhill County Adams County Allegheny County Armstrong County Beaver County	124 131 70 129 129 129 129	Portland-Vancouver-Beaverton, OR-WA Harrisburg-Carlisle-Lebanon, PA Pittsburgh-New Castle, PA Pittsburgh-New Castle, PA Pittsburgh-New Castle, PA
	Washington County Wheeler County Yamhill County Adams County Allegheny County Armstrong County	124 131 70 129 129 129 129 129 161	Portland-Vancouver-Beaverton, OR-WA Harrisburg-Carlisle-Lebanon, PA Pittsburgh-New Castle, PA Pittsburgh-New Castle, PA

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1	Bradford County		Rochester-Batavia-Seneca Falls, NY Philadalphia Camdon Vincland RA NI DE MD
	Bucks County Butler County	127	Philadelphia-Camden-Vineland, PA-NJ-DE-MD Pittsburgh-New Castle, PA
	Cambria County	161	State College, PA
	Cameron County	161	State College, PA
	Carbon County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Centre County Chester County	161	State College, PA Philadelphia-Camden-Vineland, PA-NJ-DE-MD
	Clarion County		Erie, PA
	Clearfield County		State College, PA
	Clinton County		Harrisburg-Carlisle-Lebanon, PA
	Columbia County		Harrisburg-Carlisle-Lebanon, PA
	Crawford County		Erie, PA
	Cumberland County Dauphin County	70	Harrisburg-Carlisle-Lebanon, PA Harrisburg-Carlisle-Lebanon, PA
	Delaware County		Philadelphia-Camden-Vineland, PA-NJ-DE-MD
	Elk County		State College, PA
	Erie County		Erie, PA
	Fayette County		Pittsburgh-New Castle, PA
	Forest County Franklin County		Erie, PA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Fulton County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Greene County		Pittsburgh-New Castle, PA
	Huntingdon County		State College, PA
	Indiana County		Pittsburgh-New Castle, PA
Donneylyonio	Jefferson County	161	State College, PA
Pennsylvania	Juniata County Lackawanna County		Harrisburg-Carlisle-Lebanon, PA ScrantonWilkes-Barre, PA
	Lackawaina County		
	Lawrence County	129	Pittsburgh-New Castle, PA
	Lebanon County	70	Harrisburg-Carlisle-Lebanon, PA
	Lehigh County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Luzerne County Lycoming County		ScrantonWilkes-Barre, PA Harrisburg-Carlisle-Lebanon, PA
	Mc Kean County		Buffalo-Niagara-Cattaraugus, NY
	Mercer County	35	Cleveland-Akron-Elyria, OH
	Mifflin County	161	State College, PA
	Monroe County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Montgomery County		Philadelphia-Camden-Vineland, PA-NJ-DE-MD
	Montour County Northampton County		Harrisburg-Carlisle-Lebanon, PA New York-Newark-Bridgeport, NY-NJ-CT-PA
	Northumberland County		Harrisburg-Carlisle-Lebanon, PA
	Perry County		Harrisburg-Carlisle-Lebanon, PA
	Philadelphia County		Philadelphia-Camden-Vineland, PA-NJ-DE-MD
	Pike County		New York-Newark-Bridgeport, NY-NJ-CT-PA
	Potter County Schuylkill County		Buffalo-Niagara-Cattaraugus, NY Philadelphia-Camden-Vineland, PA-NJ-DE-MD
	Snyder County	70	Harrisburg-Carlisle-Lebanon, PA
	Somerset County	161	State College, PA
	Sullivan County		Rochester-Batavia-Seneca Falls, NY
	Susquehanna County		ScrantonWilkes-Barre, PA
	Tioga County Union County		Rochester-Batavia-Seneca Falls, NY Harrisburg-Carlisle-Lebanon, PA
	Venango County		Erie, PA
	Warren County		Erie, PA
	Washington County		Pittsburgh-New Castle, PA
	Wayne County		ScrantonWilkes-Barre, PA
	Westmoreland County		Pittsburgh-New Castle, PA
	Wyoming County York County	70	ScrantonWilkes-Barre, PA Harrisburg-Carlisle-Lebanon, PA
Rhode Island	All Counties	22	Boston-Worcester-Manchester, MA-NH
	Abbeville County		
		68	Greenville-Spartanburg-Anderson, SC
l	Aiken County	68 12	Augusta-Richmond County, GA-SC
	Aiken County Allendale County	68 12 12	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC
	Aiken County Allendale County Anderson County	68 12 12 68	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County	68 12 12 68 38	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC
South Carolina	Aiken County Allendale County Anderson County	68 12 12 68	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Beaufort County Berkeley County	68 12 12 68 38 12	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Beaufort County Berkeley County Calhoun County	68 12 12 68 38 12 149 30 38	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Beaufort County Bekeley County Calhoun County Charleston County	68 12 68 38 12 68 38 12 30 38 30	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Beaufort County Berkeley County Calhoun County Charleston County Cherokee County	68 12 12 68 38 12 149 30 38 30 68	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Beaufort County Berkeley County Calhoun County Charleston County Cherokee County Chester County	68 12 68 38 12 68 38 12 30 38 30	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charlotte-Gastonia-Salisbury, NC-SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Beaufort County Berkeley County Calhoun County Charleston County Cherokee County	68 12 68 38 12 68 38 12 30 38 30 68 30 38 30 31	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Beaufort County Berkeley County Calhoun County Charleston County Cherokee County Chester County Chester County Chester County Clarendon County Clarendon County Colleton County	68 12 12 68 38 12 149 30 38 30 68 31 38 30	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Beaufort County Berkeley County Calhoun County Charleston County Cherokee County Chester County Chester County Chester County Chester County Chester County Claendon County Colleton County Darlington County	68 12 12 68 38 12 149 30 38 30 68 31 38 30 111	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Charlotte-Gastonia-Salisbury, NC-SC Charleston-North Charleston, SC Minbia-Newberry, SC Columbia-Newberry, SC Minbia-Newberry, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Berkeley County Calhoun County Charleston County Cherker County Chester County Chester field County Clarendon County Clarendon County Darlington County Darlington County	68 12 12 68 38 12 149 30 38 30 68 31 38 30 115	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Berkeley County Calboun County Cherokee County Cherokee County Chester County Chester County Chester County Clatendon County Clatendon County Colleton County Darlington County Dillon County Dinty Dorchester County	68 12 12 68 38 12 149 30 38 30 38 30 38 30 38 30 38 30 31 38 30 115 30	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Charleston-North Charleston, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Berkeley County Calhoun County Charleston County Cherker County Chester County Chester field County Clarendon County Clarendon County Darlington County Darlington County	68 12 12 68 38 12 149 30 38 30 68 31 38 30 115	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Beaufort County Berkeley County Calhoun County Charleston County Cherokee County Chester County Chester County Clarendon County Colleton County Colleton County Darlington County Dorchester County Edgefield County	68 12 12 68 12 68 12 38 30 38 30 68 31 38 30 115 115 30 12 38	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC Charleston-North Charleston, SC Augusta-Richmond County, GA-SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Berkeley County Berkeley County Calboun County Charleston County Cherokee County Cherokee County Chester County Chester County Clester County Clarendon County Colleton County Darlington County Dillon County Dillon County Edgefield County Fairfield County Florence County Florence County Georgetown County	68 12 12 68 38 12 149 30 38 30 68 31 31 38 30 115 115 30 12 38 115 115 115 115	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charlette-Gastonia-Salisbury, NC-SC Charlette-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charlette-Gastonia-Salisbury, NC-SC Charlette-Gastonia-Salisbury, NC-SC Charlette-Gastonia-Salisbury, NC-SC Charletson-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Beaufort County Beaufort County Calhoun County Charleston County Cherokee County Cherokee County Chester County Chester County Clarendon County Colleton County Darlington County Dorchester County Edgefield County Florence County Florence County Florence County Georgetown County Greenville County	68 12 12 68 38 12 149 30 68 31 38 30 61 31 38 30 115 30 12 38 115 115 68	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charleston-North Charleston, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Greenville-Spartanburg-Anderson, SC Greenville-Spartanburg-Anderson, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Berkeley County Berkeley County Calhoun County Charleston County Chester County Chester County Chester County Clarendon County Clatendon County Colleton County Darlington County Darlington County Dillon County Bafield County Florence County Florence County Greenville County Greenville County	$\begin{array}{c} 68\\ 68\\ 12\\ 12\\ 12\\ 12\\ 149\\ 30\\ 38\\ 30\\ 68\\ 31\\ 31\\ 31\\ 33\\ 30\\ 115\\ 115\\ 115\\ 115\\ 38\\ 36\\ 68\\ 68\\ 68\\ 68\\ 68\\ \end{array}$	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Clarleston-North Charleston, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charlote-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Clambia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC Augusta-Richmond County, GA-SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Greenville-Spartanburg-Anderson, SC
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Barnwell County Berkeley County Berkeley County Calhoun County Charleston County Charleston County Chester County Chester County Clester County Clarendon County Colleton County Darlington County Dillon County Dillon County Fairfield County Florence County Georgetown County Greenville County Greenville County Hampton County	$\begin{array}{c} 68\\ 68\\ 12\\ 12\\ 12\\ 68\\ 83\\ 38\\ 30\\ 30\\ 38\\ 30\\ 30\\ 38\\ 30\\ 30\\ 31\\ 31\\ 31\\ 33\\ 30\\ 30\\ 115\\ 115\\ 115\\ 115\\ 30\\ 68\\ 84\\ 149\\ 149\\ \end{array}$	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Columbia-Newberry, SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Berkeley County Berkeley County Calboun County Charleston County Cherokee County Chester County Chester County Clesterfield County Colleton County Darlington County Dorchester County Bedfield County Florence County Florence County Georgetown County Greenvoille County Greenvoille County Hampton County	$\begin{array}{c} 68\\ 68\\ 12\\ 12\\ 12\\ 68\\ 38\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30$	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Greenville-Spartanburg-Anderson, SC Greenville-Spartanburg-Anderson, SC Greenville-Spartanburg-Anderson, SC Gavannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC
	Aiken County Allendale County Anderson County Bamberg County Barnwell County Barnwell County Berkeley County Berkeley County Calhoun County Charleston County Charleston County Chester County Chester County Clester County Clarendon County Colleton County Darlington County Dillon County Dillon County Fairfield County Florence County Georgetown County Greenville County Greenville County Hampton County	$\begin{array}{c} 68\\ 68\\ 12\\ 12\\ 12\\ 68\\ 38\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30$	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Columbia-Newberry, SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA
South Carolina	Aiken County Allendale County Anderson County Bamberg County Barnwell County Barnwell County Berkeley County Calhoun County Charleston County Charleston County Chester County Chester County Chester County Clarendon County Colleton County Darlington County Dorchester County Befield County Fairfield County Florence County Georgetown County Greenville County Greenville County Hampton County Harpton County Harpton County Harpton County Jasper County Harpton County Lancaster County	68 68 12 12 12 12 149 38 300 38 31 31 315 115 115 115 115 115 115 115 115 38 68 68 149 31	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Columbia-Newberry, SC Charleston-North Charleston, SC Creneville-Spartanburg-Anderson, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Greenville-Spartanburg-Anderson, SC Savannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA Columbia-Newberry, SC
	Aiken County Allendale County Anderson County Barnwell County Barnwell County Berkeley County Berkeley County Calboun County Charleston County Cherokee County Chester County Chester County Chester County Clester County Cleton County Colleton County Darlington County Dorchester County Florence County Florence County Greenvoille County Greenvoille County Greenvoille County Hampton County Horry County Hasper County Hasper County Kershaw County Lancester County Laurens County	$\begin{array}{c} 68\\ 68\\ 12\\ 12\\ 12\\ 68\\ 38\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30\\ 30$	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Greenville-Spartanburg-Anderson, SC Savannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC
	Aiken County Allendale County Anderson County Bamberg County Barnwell County Beaufort County Beaufort County Berkeley County Calhoun County Charleston County Cherokee County Chester County Chester County Clarendon County Colleton County Darlington County Dorchester County Edgefield County Florence County Forence County Georgetown County Greenville County Greenville County Horry County Hampton County Horry County Jasper County Kershaw County Laurens County Laurens County Laurens County	$\begin{array}{c} 68\\ 68\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 149\\ 149\\ 12\\ 38\\ 30\\ 115\\ 115\\ 115\\ 115\\ 115\\ 115\\ 115\\ 11$	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Greenville-Spartanburg-Anderson, SC Greenville-Spartanburg-Anderson, SC Savannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA Columbia-Newberry, SC Columbia-Spartanburg-Anderson, SC Savannah-Hinesville-Fort Stewart, GA Columbia-Newberry, SC Columbia-Newbe
	Aiken County Allendale County Anderson County Bamberg County Barnwell County Berkeley County Berkeley County Calhoun County Charleston County Chester County Chester County Chester County Clarendon County Colleton County Colleton County Darlington County Darlington County Dillon County Befield County Florence County Greenvood County Greenvood County Hampton County Jasper County Kershaw County Lancaster County Laurens County Laurens County	$\begin{array}{c} 68\\ 68\\ 12\\ 12\\ 12\\ 12\\ 12\\ 149\\ 38\\ 30\\ 30\\ 38\\ 30\\ 30\\ 31\\ 31\\ 31\\ 31\\ 31\\ 31\\ 115\\ 115\\ 115\\$	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Greenville-Spartanburg-Anderson, SC Greenville-Spartanburg-Anderson, SC Savannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC
	Aiken County Allendale County Anderson County Bamberg County Barnwell County Berkeley County Berkeley County Calhoun County Charleston County Chester County Chester County Chester County Chester County Chester County Clester County Clarendon County Darlington County Dorchester County Befeld County Fairfield County Florence County Georgetown County Greenville County Greenville County Hampton County Harpton County Lacaster County Lacaster County Lacaster County Lexington County Lexington County Marion County	68 12 12 12 12 12 149 38 300 38 301 31 311 31 311 31 300 115 1155 115 115 115 115 115 115 38 38 68 149 31 68 38 31 68 38 31 68 38 38 31	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charleston-North Charleston, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Greenville-Spartanburg-Anderson, SC Greenville-Spartanburg-Anderson, SC Savannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Greenville-Spartanburg-Anderson, SC Savannah-Hinesville-Fort Stewart,
	Aiken County Allendale County Anderson County Bamberg County Barnwell County Berkeley County Berkeley County Calhoun County Charleston County Chester County Chester County Chester County Clarendon County Colleton County Colleton County Darlington County Darlington County Dillon County Befield County Florence County Greenvood County Greenvood County Hampton County Jasper County Kershaw County Lancaster County Laurens County Laurens County	68 12 12 12 12 12 149 38 300 38 301 31 311 31 311 31 300 115 1155 115 115 115 115 115 115 38 38 68 149 31 68 38 31 68 38 31 68 38 38 31	Augusta-Richmond County, GA-SC Augusta-Richmond County, GA-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Augusta-Richmond County, GA-SC Savannah-Hinesville-Fort Stewart, GA Charleston-North Charleston, SC Columbia-Newberry, SC Charleston-North Charleston, SC Greenville-Spartanburg-Anderson, SC Charlotte-Gastonia-Salisbury, NC-SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Columbia-Newberry, SC Myrtle Beach-Conway-Georgetown, SC Myrtle Beach-Conway-Georgetown, SC Greenville-Spartanburg-Anderson, SC Greenville-Spartanburg-Anderson, SC Savannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA Myrtle Beach-Conway-Georgetown, SC Savannah-Hinesville-Fort Stewart, GA Columbia-Newberry, SC Charlotte-Gastonia-Salisbury, NC-SC Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC Columbia-Newberry, SC

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	Oconee County	68	Greenville-Spartanburg-Anderson, SC
	Orangeburg County Pickens County	38	Columbia-Newberry, SC Greenville-Spartanburg-Anderson, SC
	Richland County	38	Columbia-Newberry, SC
	Saluda County		Columbia-Newberry, SC
	Spartanburg County		Greenville-Spartanburg-Anderson, SC Columbia-Newberry, SC
	Sumter County Union County		Greenville-Spartanburg-Anderson, SC
	Williamsburg County		Myrtle Beach-Conway-Georgetown, SC
	York County		Charlotte-Gastonia-Salisbury, NC-SC
	Aurora County		Sioux Falls, SD
	Beadle County		Sioux Falls, SD
	Bennett County Bon Homme County	134	Rapid City, SD Sioux City-Vermillion, IA-NE-SD
	Brookings County		Sioux Falls, SD
	Brown County		Aberdeen, SD
	Brule County		Sioux Falls, SD
	Buffalo County		Sioux Falls, SD
	Butte County Campbell County		Rapid City, SD Aberdeen, SD
	Charles Mix County		Sioux Falls, SD
	Clark County	155	Sioux Falls, SD
	Clay County		Sioux City-Vermillion, IA-NE-SD
	Codington County Corson County		Sioux Falls, SD Aberdeen, SD
	Custer County		Rapid City, SD
	Davison County		Sioux Falls, SD
	Day County		Sioux Falls, SD
	Deuel County		Sioux Falls, SD
	Dewey County Douglas County		Aberdeen, SD Sioux Falls, SD
	Edmunds County		Aberdeen, SD
	Fall River County		Rapid City, SD
	Faulk County	1	Aberdeen, SD
	Grant County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Gregory County Haakon County		Rapid City, SD Rapid City, SD
	Hamlin County		Sioux Falls, SD
	Hand County		Sioux Falls, SD
	Hanson County		Sioux Falls, SD
South Dakota	Harding County		Bismarck, ND
	Hughes County Hutchinson County		Sioux Falls, SD Sioux Falls, SD
	Hyde County		Sioux Falls, SD
	Jackson County		Rapid City, SD
	Jerauld County		Sioux Falls, SD
	Jones County		Sioux Falls, SD
	Kingsbury County Lake County		Sioux Falls, SD Sioux Falls, SD
	Lawrence County		Rapid City, SD
	Lincoln County		Sioux Falls, SD
	Lyman County		Sioux Falls, SD
	Marshall County		Minneapolis-St. Paul-St. Cloud, MN-WI Sioux Falls, SD
	McCook County McPherson County		Aberdeen, SD
	Meade County		Rapid City, SD
	Mellette County		Rapid City, SD
	Miner County		Sioux Falls, SD
	Minnehaha County		Sioux Falls, SD
	Moody County Pennington County		Sioux Falls, SD Rapid City, SD
	Perkins County		Bismarck, ND
	Potter County	1	Aberdeen, SD
	Roberts County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Sanborn County		Sioux Falls, SD
	Shannon County Spink County		Rapid City, SD Aberdeen, SD
	Stanley County		Sioux Falls, SD
	Sully County	155	Sioux Falls, SD
	Todd County		Rapid City, SD
	Tripp County Turner County		Rapid City, SD Sioux Falls, SD
	Union County		Sioux Falls, SD Sioux City-Vermillion, IA-NE-SD
South Dakota	Walworth County	134	Aberdeen, SD
	Yankton County	154	Sioux City-Vermillion, IA-NE-SD
	Ziebach County		Aberdeen, SD
	Anderson County Bedford County		Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN
	Benton County		Mashville-DavidsonMurtreesboroColumbia, IN Memphis, TN-MS-AR
	Bledsoe County		Atlanta-Sandy Springs-Gainesville, GA-AL
	Dieusoe County	11	
	Blount County	88	Knoxville-Sevierville-La Follette, TN
	Blount County Bradley County	88 11	Atlanta-Sandy Springs-Gainesville, GA-AL
	Blount County Bradley County Campbell County	88 11 88	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN
	Blount County Bradley County Campbell County Cannon County	88 11 88 116	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN
	Blount County Bradley County Campbell County Cannon County Carroll County	88 11 88 116 105	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR
	Blount County Bradley County Campbell County Cannon County	88 11 88 116 105 81	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN
	Blount County Bradley County Campbell County Cannon County Carroll County Carter County Cheatham County Chester County	88 11 88 116 105 81 116 105	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR
	Blount County Bradley County Campbell County Carroll County Carter County Cheatham County Cheatham County Cheater County Claiborne County	88 11 88 116 105 81 116 105 88	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Knoxville-Sevierville-La Follette, TN
	Blount County Bradley County Campbell County Carroll County Carter County Cheatham County Chester County Claiborne County Claiborne County Clay County	88 11 88 116 105 81 116 105 88 116	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN
	Blount County Bradley County Campbell County Carroll County Carter County Cheatham County Chester County Chester County Claiborne County Claiborne County Clay County Cocke County	88 11 88 116 105 81 116 105 88 116 88	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Knoxville-Sevierville-La Follette, TN
	Blount County Bradley County Campbell County Carnon County Carroll County Carter County Cheatham County Cheatham County Claiborne County Claiborne County Clay County Cocke County Coffee County	88 11 88 116 105 81 116 105 88 116 88 116	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN
	Blount County Bradley County Campbell County Carroll County Carter County Cheatham County Chester County Chester County Claiborne County Claiborne County Clay County Cocke County	88 11 88 116 105 81 116 105 88 116 88 116 105	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Knoxville-Sevierville-La Follette, TN
	Blount County Bradley County Campbell County Carroll County Carter County Cheatham County Chester County Chester County Claiborne County Claiborne County Cocke County Coffee County Coffee County Coffee County Cockett County Cumberland County Davidson County	88 11 88 116 105 81 116 105 88 116 88 116 105 105 105 116 105 105 116 105 116 105 105 105 105 105 105 105 105	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Memphis, TN-MS-AR Nashville-DavidsonMurfreesboroColumbia, TN Nashville-DavidsonMurfreesboroColumbia, TN Nashville-DavidsonMurfreesboroColumbia, TN
	Blount County Bradley County Campbell County Carroll County Carter County Cheatham County Chester County Claiborne County Clay County Cocke County Cocke County Cocket County Crockett County Cumberland County	88 11 88 116 105 81 116 105 88 116 105 116 105 116 105 116 105 116 105 116 105 116 105 105 105 105 105 105 105 105	Atlanta-Sandy Springs-Gainesville, GA-AL Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA Nashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Knoxville-Sevierville-La Follette, TN Nashville-DavidsonMurfreesboroColumbia, TN Mashville-DavidsonMurfreesboroColumbia, TN Memphis, TN-MS-AR Nashville-DavidsonMurfreesboroColumbia, TN Mashville-DavidsonMurfreesboroColumbia, TN

	Dickson County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Dyer County Fayette County	105 Memphis, TN-MS-AR 105 Memphis, TN-MS-AR
	Fentress County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Franklin County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Gibson County	105 Memphis, TN-MS-AR
	Giles County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Grainger County	88 Knoxville-Sevierville-La Follette, TN
	Greene County	81 Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Grundy County Hamblen County	116 Nashville-DavidsonMurfreesboroColumbia, TN 88 Knoxville-Sevierville-La Follette, TN
	Hamilton County	11 Atlanta-Sandy Springs-Gainesville, GA-AL
	Hancock County	88 Knoxville-Sevierville-La Follette, TN
	Hardeman County	105 Memphis, TN-MS-AR
	Hardin County	171 Tupelo, MS
	Hawkins County	81 Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Haywood County	105 Memphis, TN-MS-AR
	Henderson County	105 Memphis, TN-MS-AR
	Henry County Hickman County	105 Memphis, TN-MS-AR 116 Nashville-DavidsonMurfreesboroColumbia, TN
	Houston County	116 Nashville-DavidsonMuffreesboroColumbia, TN
	Humphreys County	116 Nashville-DavidsonMuffreesboroColumbia, TN
	Jackson County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Jefferson County	88 Knoxville-Sevierville-La Follette, TN
Tennessee	Johnson County	10 Asheville-Brevard, NC
	Knox County	88 Knoxville-Sevierville-La Follette, TN
	Lake County Lauderdale County	105 Memphis, TN-MS-AR 105 Memphis, TN-MS-AR
	Lauderdale County	105 Memphis, TN-MS-AR 116 Nashville-DavidsonMurfreesboroColumbia, TN
	Lewis County	116 Nashville-DavidsonMuffreesboroColumbia, TN
	Lincoln County	76 Huntsville-Decatur, AL
	Loudon County	88 Knoxville-Sevierville-La Follette, TN
	Macon County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Madison County	105 Memphis, TN-MS-AR
	Marion County Marshall County	11 Atlanta-Sandy Springs-Gainesville, GA-AL 116 Nashville-DavidsonMurfreesboroColumbia, TN
	Marshan County Maury County	116 Nashville-DavidsonMuffreesboroColumbia, TN
	McMinn County	11 Atlanta-Sandy Springs-Gainesville, GA-AL
	McNairy County	171 Tupelo, MS
	Meigs County	11 Atlanta-Sandy Springs-Gainesville, GA-AL
	Monroe County	88 Knoxville-Sevierville-La Follette, TN
	Montgomery County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Moore County Morgan County	116 Nashville-DavidsonMurfreesboroColumbia, TN 88 Knoxville-Sevierville-La Follette, TN
	Obion County	105 Memphis, TN-MS-AR
	Overton County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Perry County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Pickett County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Polk County	11 Atlanta-Sandy Springs-Gainesville, GA-AL
	Putnam County Rhea County	116 Nashville-DavidsonMurfreesboroColumbia, TN 11 Atlanta-Sandy Springs-Gainesville, GA-AL
	Roane County	88 Knoxville-Sevierville-La Follette, TN
	Robertson County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Rutherford County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Scott County	88 Knoxville-Sevierville-La Follette, TN
	Sequatchie County	11 Atlanta-Sandy Springs-Gainesville, GA-AL
	Sevier County	88 Knoxville-Sevierville-La Follette, TN
	Shelby County Smith County	105 Memphis, TN-MS-AR 116 Nashville-DavidsonMurfreesboroColumbia, TN
	Stewart County	116 Nashville-DavidsonMuffreesboroColumbia, TN
	Sullivan County	81 Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Sumner County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Tipton County	105 Memphis, TN-MS-AR
	Trousdale County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Unicoi County	81 Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Union County Van Buren County	88 Knoxville-Sevierville-La Follette, TN 116 Nashville-DavidsonMurfreesboroColumbia, TN
	Van Buren County Warren County	116 Nashville-DavidsonMurfreesboroColumbia, 1N 116 Nashville-DavidsonMurfreesboroColumbia, TN
	Washington County	81 Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Wayne County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Weakley County	105 Memphis, TN-MS-AR
Tennessee	White County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Williamson County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Wilson County	116 Nashville-DavidsonMurfreesboroColumbia, TN
	Anderson County Andrews County	42 Dallas-Fort Worth, TX 107 Midland-Odessa, TX
	Angelina County	75 Houston-Baytown-Huntsville, TX
	Aransas County	41 Corpus Christi-Kingsville, TX
	Archer County	178 Wichita Falls, TX
	Armstrong County	7 Amarillo, TX
	Atascosa County	144 San Antonio, TX 75 Houston Poutour Huntoville TX
	Austin County Bailey County	75 Houston-Baytown-Huntsville, TX 7 Amarillo, TX
	Bandera County	144 San Antonio, TX
	Bastrop County	13 Austin-Round Rock, TX
	Baylor County	178 Wichita Falls, TX
	Bee County	41 Corpus Christi-Kingsville, TX
	Bell County	87 Killeen-Temple-Fort Hood, TX
	Bexar County	144 San Antonio, TX
	Blanco County	13 Austin-Round Rock, TX
	Borden County Bosque County	99 Lubbock-Levelland, TX 42 Dallas-Fort Worth, TX
	Bowie County	165 Texarkana, TX-Texarkana, AR
	Brazoria County	75 Houston-Baytown-Huntsville, TX
	Brazos County	75 Houston-Baytown-Huntsville, TX
	Brewster County	107 Midland-Odessa, TX
	Briscoe County	99 Lubbock-Levelland, TX

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	Brooks County		Corpus Christi-Kingsville, TX
	Brown County		Dallas-Fort Worth, TX
	Burleson County		Houston-Baytown-Huntsville, TX
	Burnet County		Austin-Round Rock, TX
	Caldwell County		Austin-Round Rock, TX
	Calhoun County		Houston-Baytown-Huntsville, TX
	Callahan County	2	Abilene, TX
	Cameron County	104	McAllen-Edinburg-Pharr, TX
	Camp County	42	Dallas-Fort Worth, TX
	Carson County	7	Amarillo, TX
	Cass County	165	Texarkana, TX-Texarkana, AR
	Castro County		Amarillo, TX
	Chambers County		Houston-Baytown-Huntsville, TX
	Cherokee County		Dallas-Fort Worth, TX
	Childress County		Wichita Falls, TX
	Clay County		Wichita Falls, TX
	Cochran County		Lubbock-Levelland, TX
	Coke County		San Angelo, TX
	Coleman County		Dallas-Fort Worth, TX
	Collin County		Dallas-Fort Worth, TX
	Collingsworth County		Wichita Falls, TX
	Colorado County		Houston-Baytown-Huntsville, TX
Texas	Comal County		San Antonio, TX
	Comanche County		Dallas-Fort Worth, TX
	Concho County		San Angelo, TX
	Cooke County		Dallas-Fort Worth, TX
	Coryell County		Killeen-Temple-Fort Hood, TX
	Cottle County		Wichita Falls, TX
	Crane County		Midland-Odessa, TX
	Crockett County		San Angelo, TX
	Crosby County		Lubbock-Levelland, TX
	Culberson County		El Paso, TX
	Dallam County	7	Amarillo, TX
	Dallas County	42	Dallas-Fort Worth, TX
	Dawson County		Lubbock-Levelland, TX
	Deaf Smith County	7	Amarillo, TX
	Delta County	42	Dallas-Fort Worth, TX
	Denton County		Dallas-Fort Worth, TX
	DeWitt County		Houston-Baytown-Huntsville, TX
	Dickens County		Lubbock-Levelland, TX
	Dimmit County		San Antonio, TX
	Donley County		Amarillo, TX
	Duval County		Corpus Christi-Kingsville, TX
	Eastland County		Dallas-Fort Worth, TX
	Ector County		Midland-Odessa, TX
	Edwards County		San Antonio, TX
	El Paso County		El Paso, TX
	Ellis County		Dallas-Fort Worth, TX
	Erits County Erath County		Dallas-Fort Worth, TX
	Falls County		
			Killeen-Temple-Fort Hood, TX
	Fannin County		Dallas-Fort Worth, TX
	Fayette County		Houston-Baytown-Huntsville, TX
	Fisher County		Abilene, TX
	Floyd County		Lubbock-Levelland, TX
	Foard County		Wichita Falls, TX
	Fort Bend County		Houston-Baytown-Huntsville, TX
	Franklin County		Dallas-Fort Worth, TX
	Freestone County		Killeen-Temple-Fort Hood, TX
	Frio County		San Antonio, TX
	Gaines County		Lubbock-Levelland, TX
	Galveston County	75	Houston-Baytown-Huntsville, TX
	Garza County		Lubbock-Levelland, TX
	Gillespie County		San Antonio, TX
	Glasscock County		Midland-Odessa, TX
	Goliad County		Houston-Baytown-Huntsville, TX
	Gonzales County		San Antonio, TX
	Gray County		Amarillo, TX
	Grayson County		Dallas-Fort Worth, TX
	Gregg County		Dallas-Fort Worth, TX
	Grimes County		Houston-Baytown-Huntsville, TX
	Guadalupe County		San Antonio, TX
	Hale County		Lubbock-Levelland, TX
	Hall County		Wichita Falls, TX
	Hamilton County		Dallas-Fort Worth, TX
	Hansford County		Amarillo, TX
	Hansford County Hardeman County		Wichita Falls, TX
	Hardin County Hardin County		Beaumont-Port Arthur, TX
	Harris County		Houston-Baytown-Huntsville, TX
	Harrison County		Dallas-Fort Worth, TX
	Hartley County		Amarillo, TX
	Haskell County		Abilene, TX Austin Dound Dools TX
	Hays County		Austin-Round Rock, TX
	Hemphill County		Amarillo, TX
	Henderson County		Dallas-Fort Worth, TX
	Hidalgo County		McAllen-Edinburg-Pharr, TX
	Hill County		Dallas-Fort Worth, TX
	Hockley County		Lubbock-Levelland, TX
	Hood County		Dallas-Fort Worth, TX
	Hopkins County		Dallas-Fort Worth, TX
	Houston County		Houston-Baytown-Huntsville, TX
	Howard County		Midland-Odessa, TX
	Hudspeth County	51	El Paso, TX
	Hunt County		Dallas-Fort Worth, TX
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	Hutchinson County	7	Amarillo, TX
			Amarillo, TX San Angelo, TX
	Hutchinson County	143	
	Hutchinson County Irion County	143 42	San Angelo, TX

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	Jasper County Jeff Davis County		Beaumont-Port Arthur, TX
	Jefferson County		Midland-Odessa, TX Beaumont-Port Arthur, TX
	Jim Hogg County		Corpus Christi-Kingsville, TX
	Jim Wells County	41	Corpus Christi-Kingsville, TX
	Johnson County		Dallas-Fort Worth, TX
	Jones County Karnes County		Abilene, TX San Antonio, TX
	Kaufman County		Dallas-Fort Worth, TX
	Kendall County		San Antonio, TX
	Kenedy County		Corpus Christi-Kingsville, TX
	Kent County		Abilene, TX
	Kerr County Kimble County		San Antonio, TX San Antonio, TX
	King County		Wichita Falls, TX
	Kinney County	144	San Antonio, TX
	Kleberg County		Corpus Christi-Kingsville, TX
	Knox County		Abilene, TX
—	La Salle County Lamar County		San Antonio, TX Dallas-Fort Worth, TX
Texas	Lamb County		Lubbock-Levelland, TX
	Lampasas County		Killeen-Temple-Fort Hood, TX
	Lavaca County		Houston-Baytown-Huntsville, TX
	Lee County Leon County		Austin-Round Rock, TX Houston-Baytown-Huntsville, TX
	Liberty County		Houston-Baytown-Huntsville, TX
	Limestone County		Killeen-Temple-Fort Hood, TX
	Lipscomb County		Amarillo, TX
	Live Oak County		Corpus Christi-Kingsville, TX Austin Round Rock, TX
	Llano County Loving County		Austin-Round Rock, TX Midland-Odessa, TX
	Lubbock County		Lubbock-Levelland, TX
	Lynn County	99	Lubbock-Levelland, TX
	Madison County		Houston-Baytown-Huntsville, TX
	Marion County Martin County		Dallas-Fort Worth, TX Midland-Odessa, TX
	Martin County Mason County		Austin-Round Rock, TX
	Matagorda County		Houston-Baytown-Huntsville, TX
	Maverick County		San Antonio, TX
	McCulloch County		Dallas-Fort Worth, TX
	McLennan County McMullen County		Killeen-Temple-Fort Hood, TX Corpus Christi-Kingsville, TX
	Medina County		San Antonio, TX
	Menard County		San Angelo, TX
	Midland County		Midland-Odessa, TX
	Milam County		Austin-Round Rock, TX
	Mills County Mitchell County		Dallas-Fort Worth, TX Abilene, TX
	Montague County		Dallas-Fort Worth, TX
	Montgomery County		Houston-Baytown-Huntsville, TX
	Moore County		Amarillo, TX
	Morris County Motley County		Dallas-Fort Worth, TX Lubbock-Levelland, TX
	Nacogdoches County		Houston-Baytown-Huntsville, TX
	Navarro County		Dallas-Fort Worth, TX
	Newton County		Beaumont-Port Arthur, TX
	Nolan County		Abilene, TX Corpus Christi-Kingsville, TX
	Nueces County Ochiltree County		Amarillo, TX
	Oldham County		Amarillo, TX
	Orange County		Beaumont-Port Arthur, TX
	Palo Pinto County		Dallas-Fort Worth, TX
	Panola County Parker County		Dallas-Fort Worth, TX Dallas-Fort Worth, TX
	Parmer County		Amarillo, TX
	Pecos County	107	Midland-Odessa, TX
	Polk County	75	Houston-Baytown-Huntsville, TX
	Potter County Presidio County	7	Amarillo, TX Midland-Odessa, TX
	Rains County	42	Dallas-Fort Worth, TX
	Randall County	7	Amarillo, TX
	Reagan County		Midland-Odessa, TX
	Real County Red River County		San Antonio, TX Dollas Fort Worth, TX
	Red River County Reeves County		Dallas-Fort Worth, TX Midland-Odessa, TX
	Refugio County		Corpus Christi-Kingsville, TX
	Roberts County	7	Amarillo, TX
	Robertson County		Houston-Baytown-Huntsville, TX
	Rockwall County Runnels County		Dallas-Fort Worth, TX San Angelo, TX
	Rusk County		Dallas-Fort Worth, TX
	Sabine County	75	Houston-Baytown-Huntsville, TX
	San Augustine County	75	Houston-Baytown-Huntsville, TX
	San Jacinto County		Houston-Baytown-Huntsville, TX
	San Patricio County San Saba County		Corpus Christi-Kingsville, TX Dallas-Fort Worth, TX
	Schleicher County		San Angelo, TX
	Scurry County	2	Abilene, TX
	Shackelford County		Abilene, TX
	Sherby County		Houston-Baytown-Huntsville, TX
	Sherman County Smith County		Oklahoma City-Shawnee, OK Dallas-Fort Worth, TX
	Somervell County		Dallas-Fort Worth, TX
	Starr County	104	McAllen-Edinburg-Pharr, TX
	Stephens County		Dallas-Fort Worth, TX
	Sterling County Stonewall County		San Angelo, TX Abilene, TX

	Sutton County		San Angelo, TX
	Swisher County		Lubbock-Levelland, TX
F	Tarrant County Taylor County		Dallas-Fort Worth, TX Abilene, TX
Fexas	Terrell County		Midland-Odessa, TX
	Terry County		Lubbock-Levelland, TX
	Throckmorton County Titus County		Dallas-Fort Worth, TX Dallas-Fort Worth, TX
	Tom Green County		San Angelo, TX
	Travis County		Austin-Round Rock, TX
	Trinity County		Houston-Baytown-Huntsville, TX
	Tyler County		Beaumont-Port Arthur, TX
	Upshur County Upton County		Dallas-Fort Worth, TX Midland-Odessa, TX
	Uvalde County		San Antonio, TX
	Val Verde County		San Antonio, TX
	Van Zandt County		Dallas-Fort Worth, TX
	Victoria County		Houston-Baytown-Huntsville, TX
	Walker County		Houston-Baytown-Huntsville, TX
	Waller County Ward County		Houston-Baytown-Huntsville, TX Midland-Odessa, TX
	Washington County		Houston-Baytown-Huntsville, TX
	Webb County		Corpus Christi-Kingsville, TX
	Wharton County		Houston-Baytown-Huntsville, TX
	Wheeler County Wights County		Amarillo, TX Wichita Falls, TX
	Wichita County Wilbarger County		Wichita Falls, TX
	Willacy County		McAllen-Edinburg-Pharr, TX
	Williamson County		Austin-Round Rock, TX
	Wilson County	144	San Antonio, TX
	Winkler County		Midland-Odessa, TX
	Wise County Wood County		Dallas-Fort Worth, TX Dallas-Fort Worth, TX
	Yoakum County		Lubbock-Levelland, TX
	Young County		Dallas-Fort Worth, TX
	Zapata County		Corpus Christi-Kingsville, TX
	Zavala County		San Antonio, TX
	Beaver County		Las Vegas-Paradise-Pahrump, NV
	Box Elder County Cache County		Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
	Carbon County		Salt Lake City-Ogden-Clearfield, UT
	Daggett County		Salt Lake City-Ogden-Clearfield, UT
	Davis County		Salt Lake City-Ogden-Clearfield, UT
	Duchesne County		Salt Lake City-Ogden-Clearfield, UT
	Emery County Garfield County		Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
	Grand County		Salt Lake City-Ogden-Clearfield, UT
	Iron County		Las Vegas-Paradise-Pahrump, NV
	Juab County		Salt Lake City-Ogden-Clearfield, UT
	Kane County		Flagstaff, AZ
			Salt Lake City-Ogden-Clearfield, UT
Itab	Millard County		
Utah	Morgan County	142	Salt Lake City-Ogden-Clearfield, UT
Utah	Morgan County Piute County	142 142	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
Utah	Morgan County Piute County Rich County Salt Lake County	142 142 26	Salt Lake City-Ogden-Clearfield, UT
Utah	Morgan County Piute County Rich County Salt Lake County San Juan County	142 142 26 142 142	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
Utah	Morgan County Piute County Rich County Salt Lake County San Juan County Sanpete County	142 142 26 142 142 142 142	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
Utah	Morgan County Piute County Rich County Salt Lake County San Juan County Sanpete County Sevier County	142 142 26 142 142 142 142 142	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
Jtah	Morgan County Piute County Rich County Sall Lake County San Juan County Sanpete County Sevier County Summit County	142 142 26 142 142 142 142 142 142	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
Jtah	Morgan County Piute County Rich County Sall Lake County San Juan County Sanpete County Sevier County Summit County Tooele County	142 142 26 142 142 142 142 142 142 142	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
Jtah	Morgan County Piute County Rich County Salt Lake County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Uintah County Utah County	142 142 26 142 142 142 142 142 142 142 142 142 142	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
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Jtah	Morgan County Piute County Rich County Sall Lake County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Utah County Wasatch County Wasatch County	142 142 26 142 142 142 142 142 142 142 142 142 142	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Las Vegas-Paradise-Pahrump, NV
Jtah	Morgan County Piute County Rich County Salt Lake County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Utah County Wasatch County Washington County Wayne County	142 142 26 142 142 142 142 142 142 142 142 142 142	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Las Vegas-Paradise-Pahrump, NV Salt Lake City-Ogden-Clearfield, UT
	Morgan County Piute County Rich County Salt Lake County San Juan County Sanpete County Suppete County Summit County Tooele County Uintah County Uintah County Wasatch County Washington County Wayne County Weber County	142 142 26 142 142 142 142 142 142 142 142 142 142	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Las Vegas-Paradise-Pahrump, NV
	Morgan County Piute County Rich County Salt Lake County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Utah County Wasatch County Washington County Wayne County	142 142 26 142 142 142 142 142 142 142 142 142 142	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Las Vegas-Paradise-Pahrump, NV Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
	Morgan County Piute County Rich County Salt Lake County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Wasatch County Washington County Wayne County Weber County Addison County Bennington County Caledonia County	$\begin{array}{c} 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Burlington-South Burlington, VT
	Morgan County Piute County Rich County Salt Lake County Salt Lake County Sanpete County Sevier County Summit County Tooele County Uintah County Uintah County Washington County Washington County Weber County Addison County Caledonia County Chittenden County	$\begin{array}{c} 142\\ 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Burlington-South Burlington, VT
	Morgan County Piute County Rich County Salt Lake County Salt Lake County Sanpete County Sarpete County Sevier County Summit County Tooele County Uintah County Wasatch County Washington County Weber County Weber County Bennington County Caledonia County Chittenden County Chittenden County	$\begin{array}{c} 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT
	Morgan County Piute County Rich County Salt Lake County Salt Lake County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Utah County Wasatch County Washington County Weber County Addison County Bennington County Caledonia County Chittenden County Essex County Franklin County	$\begin{array}{c} 142\\ 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
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Vermont	Morgan County Piute County Rich County Salt Lake County San Juan County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Wastington County Washington County Weber County Addison County Bennington County Caledonia County Essex County Franklin County Grand Isle County Orange County Orleans County	$\begin{array}{c} 142\\ 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
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Vermont	Morgan County Piute County Rich County Salt Lake County San Juan County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Wastington County Washington County Weber County Addison County Bennington County Caledonia County Essex County Franklin County Grand Isle County Orange County Orleans County	$\begin{array}{c} 142\\ 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT
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Vermont	Morgan County Piute County Rich County Salt Lake County Salt Lake County Sanpete County Sarpete County Sevier County Summit County Tooele County Uintah County Wasatch County Washington County Washington County Weber County Addison County Caledonia County Cladion County Essex County Franklin County Grange County Orleans County Washington County Washington County Bennington County Bennington County Chittenden County Grand Isle County Orleans County Washington County Windham County Windham County Windsor County Accomack County Alexandria city	$\begin{array}{c} 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Balt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Albany-Schenectady-Amsterdam, NY Burlington-South Burlington, VT Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Bover, DE Richmond, VA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
Vermont	Morgan County Piute County Rich County Salt Lake County Salt Lake County San Juan County San Juan County Sevier County Sevier County Summit County Uintah County Utah County Wasatch County Washington County Weber County Addison County Bennington County Caledonia County Essex County Franklin County Grand Isle County Grand Isle County Orleans County Orleans County Orleans County Washington County Wandington County Washington County Orleans County Orleans County Windsor County Windsor County Albemarle County Albemarle County Alleghany County	$\begin{array}{c} 142\\ 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Albany-Schenectady-Amsterdam, NY Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Boston-Worcester-Manchester, MA-NH
Vermont	Morgan County Piute County Rich County Salt Lake County Salt Lake County San Juan County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Wasatch County Washington County Washington County Washington County Caledonia County Caledonia County Essex County Franklin County Crange County Orleans County Qrange County Rutland County Vashington County Washington County Washington County Windham County Windham County Windham County Windhar County Albemarle County Albemarle County Alesandria city Alleghany County Alleghany County	$\begin{array}{c} 142\\ 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-Burlington, VA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Roanoke, VA Richmond, VA
Vermont	Morgan County Piute County Rich County Salt Lake County Salt Lake County San Juan County San Juan County Sevier County Sevier County Summit County Uintah County Utah County Wasatch County Washington County Weber County Addison County Bennington County Caledonia County Essex County Franklin County Grand Isle County Grand Isle County Orleans County Orleans County Orleans County Washington County Wandington County Washington County Orleans County Orleans County Windsor County Windsor County Albemarle County Albemarle County Alleghany County	$\begin{array}{c} 142\\ 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Albany-Schenectady-Amsterdam, NY Burlington-South Burlington, VT Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Bover, DE Richmond, VA Roanoke, VA Roanoke, VA Roanoke, VA
Vermont	Morgan County Piute County Rich County Salt Lake County Salt Lake County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Wasatch County Washington County Washington County Weber County Addison County Bennington County Caledonia County Essex County Franklin County Grand Isle County Grand Isle County Orleans County Orleans County Orleans County Windham County Windsor County Albemarle County Albemarle County Albemarle County Alleghany County Amelia County Alleghany County Amelia County Arnelia County Alleghany County Arnelia County Arnelia County Arnelia County Arnelia County Arnelia County <t< td=""><td>$\begin{array}{c} 142\\ 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$</td><td>Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Boston-Worcester-Manchester, MA-NH</td></t<>	$\begin{array}{c} 142\\ 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Boston-Worcester-Manchester, MA-NH
Vermont	Morgan County Piute County Rich County Salt Lake County Salt Lake County San Juan County San Juan County Sevier County Summit County Tooele County Uintah County Wasatch County Washington County Washington County Washington County Caledonia County Caledonia County Essex County Franklin County Chittenden County Grand Isle County Orleans County Windham County Albemarle County Alleghany County Amherst County Amherst County Arli	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-Baltimore-Northern Virginia, DC-MD-VA-WV Roanoke, VA Roanoke, VA Roanoke, VA Burlington-Baltimore-Northern Virginia, DC-MD-VA-WV Harrisonburg, VA
Vermont	Morgan County Piute County Rich County Salt Lake County San Juan County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Wastington County Washington County Washington County Washington County Chittenden County Chittenden County Chittenden County Essex County Franklin County Grand Isle County Orleans County Windham County Washington County Rutland County Windham County Windham County Accomack County Albemarle County Alleghany County Allegnary County Allegnary County Allegnary County Allegnary County Allegnary County Ameris County Allegnary County Ameris County Allegnary County <	142 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 22 24 22 24 22 24 22 24 22 24 137 138 138 138 138	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Boston-Worcester-Manchester, MA-NH Boston-Worcest
Vermont	Morgan County Piute County Rich County Salt Lake County Salt Lake County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Wasatch County Washington County Washington County Washington County Caledonia County Caledonia County Caledonia County Caledonia County Carand Isle County Franklin County Grand Isle County Orange County Orleans County Windham County Windsor County Accomack County Albemarle County Albemarle County Albemarle County Albenarle County Albenarle County Alleghany County Amelia County Amelia County Alleghany County Antington County Antington County Antington County Anterst County Alleghany County<	$\begin{array}{c} 142\\ 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Casper, WY Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Barlington-South Burlington, VT Albany-Schenectady-Amsterdam, NY Burlington-South Burlington, VT Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Boston-Worcester-Manchester, MA-NH Boston-Worcester
Vermont	Morgan County Piute County Rich County Salt Lake County Salt Lake County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Wasatch County Washington County Washington County Weber County Caledonia County Bennington County Caledonia County Essex County Franklin County Grand Isle County Orleans County Orleans County Windham County Washington County Windsor County Albemarle County Albemarle County Albemarle County Albemarle County Alleghany County Ameria County Ameria County Alleghany County Arington County Andria city Alleghany County Arington County Arington County Anterist County Anterst County	142 142 142 142 142 142 142 142 142 142 142 142 142 142 142 142 142 142 24 25 26 27 28 138 138 <	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Albany-Schenectady-Amsterdam, NY Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Boston-Worcester-Manchester, MA-NH Burlington-Baltimore-Northern Virginia, DC-MD-VA-WV Roanoke, VA Roanoke, VA Roanoke, VA Roanoke, VA Roanoke, VA Roanoke, VA Roanoke, VA Roanoke, VA Roanoke, VA Roanoke, VA
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Vermont	Morgan County Piute County Rich County Salt Lake County Salt Lake County San Juan County Sanpete County Sevier County Summit County Tooele County Uintah County Wasatch County Washington County Washington County Washington County Weber County Addison County Caledonia County Chittenden County Essex County Franklin County Grand Isle County Orleans County Windham County Windsor County Windsor County Albemarle County Anherst County Artlington County Artlington County Augusta County <td>$\begin{array}{c} 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$</td> <td>Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-Baltimore-Northern Virginia, DC-MD-VA-WV Roanoke, VA Roanoke, VA Harrisonburg, VA Harrisonburg, VA Harrisonburg, VA Roanoke, VA Roanoke, VA Roanoke, VA Roanoke, VA Roanoke, VA</td>	$\begin{array}{c} 142\\ 142\\ 26\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142\\ 142$	Salt Lake City-Ogden-Clearfield, UT Salt Lake City-Ogden-Clearfield, UT Burlington-South Burlington, VT Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-South Burlington, VT Boston-Worcester-Manchester, MA-NH Burlington-Baltimore-Northern Virginia, DC-MD-VA-WV Roanoke, VA Roanoke, VA Harrisonburg, VA Harrisonburg, VA Harrisonburg, VA Roanoke, VA Roanoke, VA Roanoke, VA Roanoke, VA Roanoke, VA

	Buckingham County	127	Richmond, VA
	Buena Vista city		Harrisonburg, VA
	Campbell County	138	Roanoke, VA
	Caroline County		Richmond, VA
	Carroll County Charles City County		GreensboroWinston-SalemHigh Point, NC Richmond, VA
	Charlotte County		Richmond, VA
	Charlottesville city	137	Richmond, VA
	Chesapeake city		Virginia Beach-Norfolk-Newport News, VA-NC
	Chesterfield County Clarke County		Richmond, VA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Clifton Forge city		Roanoke, VA
	Colonial Heights city	137	Richmond, VA
	Covington city		Roanoke, VA
	Craig County Culpeper County		Roanoke, VA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Cumberland County		Richmond, VA
	Danville city		GreensboroWinston-SalemHigh Point, NC
	Dickenson County		Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Dinwiddie County		Richmond, VA
	Emporia city Essex County		Richmond, VA Richmond, VA
	Fairfax city		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Fairfax County	174	Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
Virginia	Falls Church city		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Fauquier County Floyd County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Roanoke, VA
	Fluvanna County		Richmond, VA
	Franklin city	173	Virginia Beach-Norfolk-Newport News, VA-NC
	Franklin County		Roanoke, VA
	Frederick County	174	Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Fredericksburg city Galax city	1/4	GreensboroWinston-SalemHigh Point, NC
	Giles County		Roanoke, VA
	Gloucester County		Virginia Beach-Norfolk-Newport News, VA-NC
	Goochland County		Richmond, VA
	Grayson County Greene County		GreensboroWinston-SalemHigh Point, NC Richmond, VA
	Greensville County		Richmond, VA
	Halifax County	133	Raleigh-Durham-Cary, NC
	Hampton city	173	Virginia Beach-Norfolk-Newport News, VA-NC
	Hanover County Harrisonburg city		Richmond, VA
	Harrisonburg city Henrico County		Harrisonburg, VA Richmond, VA
	Henry County		GreensboroWinston-SalemHigh Point, NC
	Highland County		Harrisonburg, VA
	Hopewell city		Richmond, VA
	Isle of Wight County James City County		Virginia Beach-Norfolk-Newport News, VA-NC Virginia Beach-Norfolk-Newport News, VA-NC
	King and Queen County		Richmond, VA
	King George County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	King William County		Richmond, VA
	Lancaster County Lee County		Richmond, VA Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Lexington city		Harrisonburg, VA
	Loudoun County	174	Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Louisa County	137	Richmond, VA
	Lunenburg County		Richmond, VA Roanoke, VA
	Lynchburg city Madison County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Manassas city		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Manassas Park city		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Martinsville city		GreensboroWinston-SalemHigh Point, NC
	Mathews County Mecklenburg County		Virginia Beach-Norfolk-Newport News, VA-NC Richmond, VA
	Middlesex County		Richmond, VA
	Montgomery County	138	Roanoke, VA
	Nelson County		Richmond, VA
	New Kent County Newport News city		Richmond, VA Virginia Beach-Norfolk-Newport News, VA-NC
	Norfolk city		Virginia Beach-Norfolk-Newport News, VA-NC
	Northampton County	49	Dover, DE
	Northumberland County		Richmond, VA
	Norton city		Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Nottoway County Orange County		Richmond, VA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Page County	71	Harrisonburg, VA
	Patrick County	66	GreensboroWinston-SalemHigh Point, NC
	Petersburg city Pitteylyania County		Richmond, VA Greanchoro, Winston Salam, High Boint, NC
	Pittsylvania County Poquoson city		GreensboroWinston-SalemHigh Point, NC Virginia Beach-Norfolk-Newport News, VA-NC
	Portsmouth city		Virginia Beach-Norfolk-Newport News, VA-NC
	Powhatan County	137	Richmond, VA
	Prince Edward County		Richmond, VA
	Prince George County Prince William County		Richmond, VA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Pulaski County		Roanoke, VA
	Radford city	138	Roanoke, VA
	Rappahannock County	174	Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Richmond city		Richmond, VA
	Richmond County Roanoke city		Richmond, VA Roanoke, VA
Virginia	Roanoke County		Roanoke, VA
	Rockbridge County	71	Harrisonburg, VA
	Rockingham County		Harrisonburg, VA
	Russell County		Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Salem city	158	Roanoke, VA

	Seett Country	01	Laborary Office IV and and Deletal (The Office) The VA
	Scott County Shenandoah County	81	Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Smyth County	81	Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Southampton County		Virginia Beach-Norfolk-Newport News, VA-NC
	Spotsylvania County Stafford County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Staunton city		Harrisonburg, VA
	Suffolk city		Virginia Beach-Norfolk-Newport News, VA-NC
	Surry County		Virginia Beach-Norfolk-Newport News, VA-NC
	Sussex County Tazewell County	81	Richmond, VA Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Virginia Beach city		Virginia Beach-Norfolk-Newport News, VA-NC
	Warren County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Washington County		Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Waynesboro city	71	Harrisonburg, VA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Westmoreland County Williamsburg city		Virginia Beach-Norfolk-Newport News, VA-NC
	Winchester city		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Wise County	81	Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Wythe County		Roanoke, VA
	York County Adams County	173	Virginia Beach-Norfolk-Newport News, VA-NC Wenatchee, WA
	Asotin County	93	
	Benton County		Kennewick-Richland-Pasco, WA
	Chelan County		Wenatchee, WA
	Clallam County Clark County	152	Seattle-Tacoma-Olympia, WA Portland-Vancouver-Beaverton, OR-WA
	Columbia County		Kennewick-Richland-Pasco, WA
	Cowlitz County		Portland-Vancouver-Beaverton, OR-WA
	Douglas County		Wenatchee, WA
	Ferry County Franklin County		Spokane, WA Kennewick-Richland-Pasco, WA
	Franklin County Garfield County	93	
	Grant County		Wenatchee, WA
	Grays Harbor County		Seattle-Tacoma-Olympia, WA
	Island County		Seattle-Tacoma-Olympia, WA
	Jefferson County King County		Seattle-Tacoma-Olympia, WA Seattle-Tacoma-Olympia, WA
	Kitsap County		Seattle-Tacoma-Olympia, WA
	Kittitas County		Seattle-Tacoma-Olympia, WA
Washington	Klickitat County		Portland-Vancouver-Beaverton, OR-WA
	Lewis County		Seattle-Tacoma-Olympia, WA
	Lincoln County Mason County		Spokane, WA Seattle-Tacoma-Olympia, WA
	Okanogan County		Wenatchee, WA
	Pacific County		Seattle-Tacoma-Olympia, WA
	Pend Oreille County		Spokane, WA
	Pierce County		Seattle-Tacoma-Olympia, WA Seattle-Tacoma-Olympia, WA
	San Juan County Skagit County		Seattle-Tacoma-Olympia, WA
	Skamania County		Portland-Vancouver-Beaverton, OR-WA
	Snohomish County		Seattle-Tacoma-Olympia, WA
	Spokane County		Spokane, WA
	Stevens County Thurston County		Spokane, WA Seattle-Tacoma-Olympia, WA
	Wahkiakum County		Portland-Vancouver-Beaverton, OR-WA
	Walla Walla County		Kennewick-Richland-Pasco, WA
	Whatcom County		Seattle-Tacoma-Olympia, WA
	Whitman County Yakima County	86	Spokane, WA Kennewick-Richland-Pasco, WA
	Barbour County	34	
	Berkeley County	174	Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
West Virginia	Boone County	29	Charleston, WV
	Braxton County Brooke County	29	
	Brooke County Cabell County	129 29	
	Calhoun County	29	
	Clay County	29	Charleston, WV
	Doddridge County	34	Clarksburg, WV + Morgantown, WV
	Fayette County Gilmer County	29 29	Charleston, WV Charleston, WV
	Grant County	174	
	Greenbrier County	29	Charleston, WV
	Hampshire County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Hancock County		Pittsburgh-New Castle, PA Washington Paltimora Northarn Virginia, DC MD VA WV
	Hardy County Harrison County	34	Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Clarksburg, WV + Morgantown, WV
	Jackson County	29	Charleston, WV
	Jefferson County	174	Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
	Kanawha County	29	Charleston, WV
	Lewis County Lincoln County	34 29	Clarksburg, WV + Morgantown, WV Charleston, WV
	Logan County	29	Charleston, WV
	Marion County	34	
	Marshall County		Pittsburgh-New Castle, PA
	Mason County	40	
	McDowell County	81 81	Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA Johnson City-Kingsport-Bristol (Tri-Cities), TN-VA
	Margar Country	I X I	
	Mercer County Mineral County		Washington-Baltimore-Northern Virginia DC-MD-VA-WV
Wast Vincini-	Mercer County Mineral County Mingo County		Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Lexington-FayetteFrankfortRichmond, KY
West Virginia	Mineral County Mingo County Monongalia County	174 94 34	Lexington-FayetteFrankfortRichmond, KY Clarksburg, WV + Morgantown, WV
West Virginia	Mineral County Mingo County Monongalia County Monroe County	174 94 34 138	Lexington-FayetteFrankfortRichmond, KY Clarksburg, WV + Morgantown, WV Roanoke, VA
West Virginia	Mineral County Mingo County Monongalia County Monroe County Morgan County	174 94 34 138 174	Lexington-FayetteFrankfortRichmond, KY Clarksburg, WV + Morgantown, WV Roanoke, VA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV
West Virginia	Mineral County Mingo County Monongalia County Monroe County Morgan County Nicholas County	174 94 34 138 174 29	Lexington-FayetteFrankfortRichmond, KY Clarksburg, WV + Morgantown, WV Roanoke, VA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV Charleston, WV
West Virginia	Mineral County Mingo County Monongalia County Monroe County Morgan County	174 94 34 138 174 29 129	Lexington-FayetteFrankfortRichmond, KY Clarksburg, WV + Morgantown, WV Roanoke, VA Washington-Baltimore-Northern Virginia, DC-MD-VA-WV

	Pocahontas County	29	Charleston, WV
	Preston County	34	Clarksburg, WV + Morgantown, WV
	Putnam County	29	Charleston, WV
	Raleigh County Bandolph County	29 29	Charleston, WV Charleston, WV
	Randolph County Ritchie County	29	Charleston, WV
	Ritchie County Roane County		Charleston, WV
	Summers County		Charleston, WV
	Taylor County		Clarksburg, WV + Morgantown, WV
	Tucker County		Charleston, WV
	Tyler County		Pittsburgh-New Castle, PA
	Upshur County	34	Clarksburg, WV + Morgantown, WV
	Wayne County	29	Charleston, WV
	Webster County		Charleston, WV
	Wetzel County		Pittsburgh-New Castle, PA
	Wirt County		Charleston, WV
	Wood County		Charleston, WV
	Wyoming County Adams County		Charleston, WV Madison-Baraboo, WI
	Adams County Ashland County		Wausau-Merrill, WI
	Barron County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Bayfield County		Wausau-Merrill, WI
	Brown County		Appleton-Oshkosh-Neenah, WI
	Buffalo County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Burnett County		Minneapolis-St. Paul-St. Cloud, MN-WI
	Calumet County	9	Appleton-Oshkosh-Neenah, WI
	Chippewa County	109	Minneapolis-St. Paul-St. Cloud, MN-WI
	Clark County		Wausau-Merrill, WI
	Columbia County		Madison-Baraboo, WI
	Crawford County		Madison-Baraboo, WI
	Dane County		Madison-Baraboo, WI
	Dodge County		Milwaukee-Racine-Waukesha, WI
	Door County Douglas County		Appleton-Oshkosh-Neenah, WI
	Douglas County Dunn County		Duluth, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
	Eau Claire County		Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
	Florence County		Marinette, WI-MI
	Fond du Lac County	102	Milwaukee-Racine-Waukesha, WI
	Forest County	176	Wausau-Merrill, WI
	Grant County		Madison-Baraboo, WI
Wisconsin	Green County	101	Madison-Baraboo, WI
** 1500115111	Green Lake County	108	Milwaukee-Racine-Waukesha, WI
	Iowa County	101	Madison-Baraboo, WI
	Iron County		Wausau-Merrill, WI
	Jackson County		La Crosse, WI-MN
	Jefferson County		Milwaukee-Racine-Waukesha, WI
	Juneau County		Madison-Baraboo, WI
	Kenosha County Kewaunee County		Chicago-Naperville-Michigan City, IL-IN-WI Appleton-Oshkosh-Neenah, WI
	La Crosse County	-	La Crosse, WI-MN
	La Crosse County Lafavette County		Madison-Baraboo, WI
	Langlade County		Wausau-Merrill, WI
	Lincoln County		Wausau-Merrill, WI
	Manitowoc County		Milwaukee-Racine-Waukesha, WI
	Marathon County		Wausau-Merrill, WI
			Marinette, WI-MI
	Marinette County		
	Marinette County Marquette County		Madison-Baraboo, WI
	Marquette County Menominee County	101 9	Appleton-Oshkosh-Neenah, WI
	Marquette County Menominee County Milwaukee County	101 9 108	Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI
	Marquette County Menominee County Milwaukee County Monroe County	101 9 108 89	Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI La Crosse. WI-MN
	Marquette County Menominee County Milwaukee County Monroe County Oconto County	101 9 108 89 9	Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI La Crosse, WI-MN Appleton-Oshkosh-Neenah, WI
	Marquette County Menominee County Milwaukee County Monroe County Oconto County Oneida County	101 9 108 89 9 176	Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI La Crosse, WI-MN Appleton-Oshkosh-Neenah, WI Wausau-Merrill, WI
	Marquette County Menominee County Milwaukee County Monroe County Oconto County Oneida County Outagamie County	101 9 108 89 9 176 9	Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI La Crosse, WI-MN Appleton-Oshkosh-Neenah, WI Wausau-Merrill, WI Appleton-Oshkosh-Neenah, WI
	Marquette County Menominee County Milwaukee County Monroe County Oconto County Oneida County Outagamie County Outagamie County Ozaukee County	101 9 108 89 9 176 9 108	Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI La Crosse, WI-MN Appleton-Oshkosh-Neenah, WI Wausau-Merrill, WI Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI
	Marquette County Menominee County Milwaukee County Monroe County Oconto County Oneida County Outagamie County Ozaukee County Pepin County	101 9 108 89 9 176 9 108 109	Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI La Crosse, WI-MN Appleton-Oshkosh-Neenah, WI Wausau-Merrill, WI Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI Minneapolis-St. Paul-St. Cloud, MN-WI
	Marquette County Menominee County Milwaukee County Monroe County Oconto County Oneida County Outagamie County Ozaukee County Pepin County Pierce County	101 9 108 89 9 176 9 108 109 109	Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI La Crosse, WI-MN Appleton-Oshkosh-Neenah, WI Wausau-Merrill, WI Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI Minneapolis-St. Paul-St. Cloud, MN-WI Minneapolis-St. Paul-St. Cloud, MN-WI
	Marquette County Menominee County Milwaukee County Monroe County Oconto County Oneida County Outagamie County Ozaukee County Pepin County	101 9 108 89 9 176 9 108 109 109 109	Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI La Crosse, WI-MN Appleton-Oshkosh-Neenah, WI Wausau-Merrill, WI Appleton-Oshkosh-Neenah, WI Milwaukee-Racine-Waukesha, WI Minneapolis-St. Paul-St. Cloud, MN-WI
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	Goshen County	150 Scotts Bluff, NE
	Hot Springs County	18 Billings, MT
	Johnson County	26 Casper, WY
	Laramie County	45 Denver-Aurora-Boulder, CO
Wyoming	Lincoln County	26 Casper, WY
	Natrona County	26 Casper, WY
	Niobrara County	26 Casper, WY
	Park County	18 Billings, MT
	Platte County	26 Casper, WY
	Sheridan County	18 Billings, MT
	Sublette County	26 Casper, WY
	Sweetwater County	26 Casper, WY
	Teton County	26 Casper, WY
	Uinta County	26 Casper, WY
	Washakie County	26 Casper, WY
	Weston County	26 Casper, WY

APPENDIX G

Availability of Women in 45 On-Site Construction Occupations, Nationwide, American Community Survey, 2006-2008 Appendix Table G.1

using the Higher % Occupa-Women in this tion 12.6% 16.5% 10.2% 11.3% 14.5% 8.3% 9.0% 4.9% 9.7% 7.5% 4.1% 4.0% 12.0% 4.5% 7.5% 4.8% 7.0% 7.6% 5.0% 8.8% % () Differin %s 10.2% 14.1% 12.0% ence 0.7% 3.9% 5.2% 5.8% 5.9% 6.7% 2.8% 2.9% 7.3% 7.4% 5.0% 10.2% 3.2% 6.6% 1.9% 7.4% ł (i) Occupa-Occupa-Nomen Similar in this 12.6% 16.5% 10.2% 11.3% 4.5% tion's tions Group 2.0% 4.5% 7.5% 4.8% 7.0% 7.6% 8.3% 9.0% 4.9% 5.0% 9.7% 7.5% 4.1% 8.8% 14.0% (H) Occupa-Women Alone in this 11.3% tion 1.2% %6.0 %6.0 2.9% 2.3% 1.8% 1.8% 2.4% 2.4% 2.4% 2.4% 2.1% 2.1% 2.5% 2.5% 2.3% 1.4% 3.7% % ł (g) Occupation's Occupations Nomen in ,140,075 ,011,859 ,339,769 ,761,032 ,234,325 1,228,829 1,020,039 ,569,026 ,012,990 1,707,058 Group 217,146 815,074 993,863 ,076,277 Similar 489,675 370,148 417,184 635,117 459,201 896,594 this £ Occupation Women in this 10,258 19,509 Alone 12,594 5,557 5,557 1,549 ,549 ,549 ,549 ,113 ,113 2,915 2,915 1,141 1,141 696 710 267 939 (e) ł Occupation's Occupations 13,418,585 16,358,364 10,660,124 10,873,722 10,497,817 13,315,565 10,801,917 15,365,392 12,207,323 12,220,869 4,530,714 10,670,011 13,640,303 8,307,168 13,387,557 9,869,015 8,516,010 9,171,605 8,762,165 Workers 4,071,438 in this Similar Group Total (p) Occupation Workers 121,519 121,519 864,016 364,016 116,343 11,643 21,785 441,189 116,343 in this 65,388 65,388 65,388 65,388 52,250 52,250 23,900 Alone 856,171 50,409 25,129 Total 1 (C) Paving, Surfacing & Tamping Equip. Ops. Insulation Workers, Floor, Ceiling & Wall Op. Engin. & Other Constr. Equip. Ops. Floor Layers, Ex. Carpet, Wood & Tile Cement Masons & Concrete Finishers Construction & Building Inspectors Drywall & Ceiling Tile Installers Terrazzo Workers & Finishers Brickmasons & Blockmasons Floor Sanders & Finishers Construction Carpenters (q) Occupation Pile-Driver Operators Tile & Marble Setters Rough Carpenters Carpet Installers Stonemasons Boilermakers Electricians Glaziers Tapers (2) 47-2011.00 (3) 47-2021.00 (4) 47-2022.00 (6) 47-2031.02 (7) 47-2041.00 (8) 47-2042.00 (9) 47-2043.00 (10) 47-2044.00 (11) 47-2051.00 (12) 47-2053.00 (13) 47-2071.00 (14) 47-2072.00 (15) 47-2073.00 (16) 47-2081.00 (17) 47-2082.00 (20) 47-2131.00 (1) 47-4011.00 (5) 47-2031.01 (18) 47-2111.00 (19) 47-2121.00 (a)

	(a)	(q)	(c)	(p)	(e)	(£)	(6)	(H)	(i)	(!)	
(21)	(21) 47-2132.00	Insulation Workers, Mechanical	25,129	13,279,486	939	501,855	3.7%	3.8%	0.0%	3.8%	
(22)	(22) 47-2141.00	Painters, Construction & Maintenance	704,494	12,866,017	51,373	1,301,211	7.3%	10.1%	2.8%	10.1%	
(23)	(23) 47-2142.00	Paperhangers	10,501	12,232,376	2,276	1,836,933	21.7%	15.0%	-6.7%	21.7%	
(24)	(24) 47-2151.00	Pipelayers	217,319	10,647,360	3,322	1,241,417	1.5%	11.7%	10.1%	11.7%	
(25)	(25) 47-2152.01	Pipe Fitters & Steamfitters	217,319	8,755,222	3,322	407,430	1.5%	4.7%	3.1%	4.7%	
(26)	(26) 47-2152.02	Plumbers	217,319	16,606,045	3,322	995,094	1.5%	6.0%	4.5%	6.0%	
(27)	(27) 47-2161.00	Plasterers & Stucco Masons	53,045	13,862,917	863	1,505,572	1.6%	10.9%	9.2%	10.9%	
(28)	(28) 47-2171.00	Reinforcing Iron & Rebar Workers	11,770	7,753,823	212	977,443	1.8%	12.6%	10.8%	12.6%	
(29)	(29) 47-2181.00	Roofers	259,901	12,321,394	3,579	1,273,989	1.4%	10.3%	9.0%	10.3%	
(30)	(30) 47-2211.00	Sheet Metal Workers	148,536	7,958,355	6,440	369,152	4.3%	4.6%	0.3%	4.6%	
(31)	(31) 47-2221.00	Structural Iron & Steel Workers	74,999	11,125,325	1,547	927,882	2.1%	8.3%	6.3%	8.3%	
(32)	(32) 47-4021.00	Elevator Installers & Repairers	29,586	16,713,366	596	1,603,108	2.0%	9.6%	7.6%	9.6%	
(33)	(33) 47-4031.00	Fence Erectors	37,590	10,096,281	940	1,421,555	2.5%	14.1%	11.6%	14.1%	
(34)	(34) 47-4041.00	Hazardous Materials Removal Workers	32,770	9,825,435	5,223	487,864	15.9%	5.0%	-11.0%	15.9%	
(35)	(35) 47-4051.00	Highway Maintenance Workers	104,906	11,438,236	3,667	1,091,017	3.5%	9.5%	6.0%	9.5%	
(36)	(36) 47-4061.00	Rail-Track Laying Equip. Operators	10,786	11,156,387	80	1,028,544	0.1%	9.2%	9.1%	9.2%	
(37)	(37) 47-4091.00	Segmental Pavers	55,196	12,553,896	2,398	1,876,805	4.3%	14.9%	10.6%	14.9%	
(38)	(38) 47-2061.00	Construction Laborers	1,991,439	10,568,450	64,250	877,418	3.2%	8.3%	5.1%	8.3%	
(39)	(39) 47-3011.00	HelpersBrickmasons, Blockmasons	18,477	8,991,546	808	791,458	4.4%	8.8%	4.4%	8.8%	
(40)	(40) 47-3012.00	HelpersCarpenters	18,477	11,172,335	808	2,346,363	4.4%	21.0%	16.6%	21.0%	
(41)	(41) 47-3013.00	HelpersElectricians	18,477	11,980,331	808	1,493,550	4.4%	12.5%	8.1%	12.5%	
(42)	(42) 47-3014.00	HelpersPainters, Plasterers, etc.	18,477	16,583,462	808	2,686,881	4.4%	16.2%	11.8%	16.2%	
(43)	(43) 47-3015.00	HelpersPipelayers, Plumbers, etc.	18,477	12,995,474	808	1,844,189	4.4%	14.2%	9.8%	14.2%	
(44)	(44) 47-3016.00	HelpersRoofers	18,477	10,276,752	808	1,561,905	4.4%	15.2%	10.8%	15.2%	
(45)	(45) 47-4071.00	Septic Tank Servicers & Sewer Pipe CI.	1	12,296,260	I	543,754	1	4.4%	I	4.4%	
(46)	Average (w	(46) Average (weighted by Column (c))					3.0%	8.1%	5.1%	8.2%	
(47)	Number an	(47) Number and % of Occupations in which Difference is Negative	is Negative					2	4.7%		
(48)	Average (w	(48) Average (weighted by (Column (c)) for EEO-1 Craft (Skilled) Occupations	t (Skilled) Occ	upations			2.7%	7.9%	5.2%	8.0%	
(49)	Average (w	(49) Average (weighted by (Column (c)) for EEO-1 Laborer (Unskilled) Occupations	orer (Unskilled	I) Occupations			3.3%	8.6%	5.3%	8.6%	
1											

Availability of African Americans in 45 On-Site Construction Occupations, Appendix Table G.2

using the Higher % Occupa-Ams. in % Af. this 11.0% 10.8% 10.3% 11.9% 11.9% 11.7% 12.6% 11.0% 10.9% 11.2% 12.1% 9.2% 9.2% tion 9.0% 8.7% 9.6% 9.7% 8.6% 10.6% 9.4% () Differin %s -1.4% -2.8% 4.2% 5.9% 5.4% 4.4% -3.2% -3.4% 2.5% 4.1% ence 1.2% 2.0% 4.6% 6.0% 5.0% 6.5% 1.1% 6.4% 0.3% ł (E) Occupa-Occupa Ams. in Similar tions Group this tion's % Af. 9.0% 8.7% 9.6% 8.2% 9.2% 10.9% 10.8% 10.3% 9.2% 8.7% 8.5% 11.7% 11.2% 9.7% 9.6% 12.6% 12.1% 8.6% 10.6% 9.4% (4) Occupain this Alone 11.9% 11.0% 11.0% 11.9% 6.7% 5.0% 4.9% 4.9% 4.9% 4.9% 9.2% Ams. tion 7.8% 5.0% 6.2% % Af. 5.6% 5.6% 7.5% 4.2% 9.1% (6) ł Occupation's Occupations Af. Ams. in ,150,144 ,095,208 ,259,096 ,372,550 ,171,905 ,302,734 ,314,653 ,295,484 ,143,146 .284.993 ,279,232 ,023,796 Similar 371,259 502,841 ,073,601 780,937 ,286,777 738,881 Group 366,844 724,177 this Ð Occupation Af. Ams. in this 13,317 27,243 Alone 13,317 64,026 43,091 6,514 1,466 43,091 3,178 3,178 3,178 6,514 8,752 3,178 6,211 6,211 2,193 2,130 2,282 ł (e) tions Group 13,315,565 13,640,303 13,418,585 10,660,124 10,873,722 10,497,817 10,801,917 15,365,392 12,207,323 12,220,869 16,358,364 10,670,011 Occupat-4,071,438 8,307,168 4,530,714 3,387,557 9,869,015 8,516,010 9,171,605 8,762,165 Norkers Occupain this Similar Total ion's (p) Occupation Workers 864,016 864,016 65,388 65,388 111,643 21,785 121,519 121,519 116,343 in this Alone 65,388 65,388 52,250 52,250 441.189 116,343 50,409 23,900 356,171 Total 25,129 ł (C) Paving, Surfacing & Tamping Equip. Ops (20) 47-2131.00 Insulation Workers, Floor, Ceiling & Wall Op. Engin. & Other Constr. Equip. Ops. Floor Layers, Ex. Carpet, Wood & Tile Cement Masons & Concrete Finishers Construction & Building Inspectors Drywall & Ceiling Tile Installers Terrazzo Workers & Finishers Brickmasons & Blockmasons 47-2043.00 Floor Sanders & Finishers (q) Construction Carpenters Occupation Pile-Driver Operators Tile & Marble Setters Rough Carpenters Carpet Installers Stonemasons Boilermakers Electricians Glaziers Tapers 47-2011.00 47-2041.00 47-2042.00 47-2051.00 47-2053.00 47-2071.00 47-2073.00 47-2081.00 47-4011.00 47-2021.00 47-2022.00 47-2031.01 47-2031.02 47-2044.00 47-2072.00 47-2082.00 47-2111.00 47-2121.00 (a) (4) (2) (2) (6) (10) (11) (12) (13) (14) (18) (1) (2) (3) (9) (8) (16) (17) (15) (19)

Nationwide, American Community Survey, 2006-2008

	(a)	(q)	(c)	(p)	(e)	(t)	(d)	(H)	(i)	Ű
(21)		47-2132.00 Insulation Workers, Mechanical	25,129	13,279,486	2,282	1,170,981	9.1%	8.8%	-0.3%	9.1%
(22		Painters, Construction & Maintenance	704,494	12,866,017	49,559	1,265,262	7.0%	9.8%	2.8%	9.8%
(23)		Paperhangers	10,501	12,232,376	497	1,589,142	4.7%	13.0%	8.3%	13.0%
(24)		Pipelayers	217,319	10,647,360	16,194	1,059,996	7.5%	10.0%	2.5%	10.0%
(25)		Pipe Fitters & Steamfitters	217,319	8,755,222	16,194	737,463	7.5%	8.4%	1.0%	8.4%
(26)	_	Plumbers	217,319	16,606,045	16,194	1,522,595	7.5%	9.2%	1.7%	9.2%
(27)		Plasterers & Stucco Masons	53,045	13,862,917	5,287	1,328,119	10.0%	9.6%	-0.4%	10.0%
(28)		Reinforcing Iron & Rebar Workers	11,770	7,753,823	715	844,321	6.1%	10.9%	4.8%	10.9%
(29)		Roofers	259,901	12,321,394	19,667	1,267,310	7.6%	10.3%	2.7%	10.3%
(30)		Sheet Metal Workers	148,536	7,958,355	10,571	704,870	7.1%	8.9%	1.7%	8.9%
(31)		Structural Iron & Steel Workers	74,999	11,125,325	5,408	1,224,129	7.2%	11.0%	3.8%	11.0%
(32)		Elevator Installers & Repairers	29,586	16,713,366	1,841	1,528,219	6.2%	9.1%	2.9%	9.1%
(33)		Fence Erectors	37,590	10,096,281	2,042	1,190,570	5.4%	11.8%	6.4%	11.8%
(34)		Hazardous Materials Removal Workers	32,770	9,825,435	5,172	1,009,132	15.8%	10.3%	-5.5%	15.8%
(35)		Highway Maintenance Workers	104,906	11,438,236	12,649	1,406,114	12.1%	12.3%	0.2%	12.3%
(36)		Rail-Track Laying Equip. Operators	10,786	11,156,387	2,093	1,121,985	19.4%	10.1%	-9.3%	19.4%
(37)		Segmental Pavers	55,196	12,553,896	5,321	1,540,053	9.6%	12.3%	2.6%	12.3%
(38)		Construction Laborers	1,991,439	10,568,450	175,277	1,140,617	8.8%	10.8%	2.0%	10.8%
(39)		HelpersBrickmasons, Blockmasons	18,477	8,991,546	1,900	1,023,385	10.3%	11.4%	1.1%	11.4%
(40)	47-3012.00	HelpersCarpenters	18,477	11,172,335	1,900	1,451,697	10.3%	13.0%	2.7%	13.0%
(41)		HelpersElectricians	18,477	11,980,331	1,900	1,494,921	10.3%	12.5%	2.2%	12.5%
(42)		HelpersPainters, Plasterers, etc.	18,477	16,583,462	1,900	1,960,610	10.3%	11.8%	1.5%	11.8%
(43)		HelpersPipelayers, Plumbers, etc.	18,477	12,995,474	1,900	1,668,163	10.3%	12.8%	2.6%	12.8%
(44)	47-3016.00	47-3016.00 HelpersRoofers	18,477	10,276,752	1,900	1,377,372	10.3%	13.4%	3.1%	13.4%
(45)	47-4071.00	Septic Tank Servicers & Sewer Pipe CI.	1	12,296,260	I	1,232,063	I	10.0%	I	10.0%
(46)	Average (w	(46) Average (weighted by Column (c))					7.3%	9.6%	2.6%	10.1%
(47)	Number and	(47) Number and % of Occupations in which Difference is Negative	s Negative					8	18.6%	
(48)	Average (w	(48) Average (weighted by (Column (c)) for EEO-1 Craft ((Skilled) Occupations	upations			6.8%	9.6%	2.8%	9.8%
(49)	Average (w	(49) Average (weighted by (Column (c)) for EEO-1 Laborer (Unskilled) Occupations	rer (Unskilled) Occupations			8.9%	10.9%	2.0%	10.9%

Availability of Asians in 45 On-Site Construction Occupations, Nationwide, American Community Survey, 2006-2008 Appendix Table G.3

% Asians using the Higher % Occupain this tion 12.0% 2.0% 2.2% 1.7% 2.8% 2.8% 1.9% 2.5% 2.4% 2.1% 1.6% 1.7% 2.3% 3.0% 2.2% 2.5% 2.3% 2.0% ł Ξ Differin %s 1.1% 1.4% 0.8% -0.2% -0.3% 0.4% 1.0% 0.8% 0.5% 1.2% 1.3% 2.0% 2.2% 1.4% 1.7% ence 0.3% 0.6% 9.8% ł Ξ % Asians Occupa-Occupa-Similar Group in this tions tion's 12.0% 2.2% 1.7% 2.7% 1.9% 2.5% 1.6% 1.7% 3.0% 2.2% 2.5% 2.0% 2.5% 2.4% 2.1% 2.3% 2.3% 2.0% I (4) Asians in this % Asians Occupain this Alone 1.5% tion 0.9% 0.9% 2.8% 2.8% 1.5% 1.5% 0.4% 0.4% 0.2% 0.8% 0.8% 0.8% 2.2% 0.9% 1.5% 2.0% 1.4% 0.6% ł (g) Occupation's Occupations 198,552 Similar Group 299,233 435,345 268,225 251,505 283,398 309,814 90,178 334,606 154,834 262,000 265,714 357,406 246,446 64,734 191,522 138,661 294,317 267,688 77,112 Ð Occupation Asians in this Alone 17,230 24,604 24,604 1,000 1,000 1,036 1,000 1,000 3,369 1,036 2,456 210 210 917 917 715 202 160 57 (e) ł Occupation's Occupations 10,873,722 13,315,565 12,220,869 13,418,585 16,358,364 13,387,557 9,869,015 10,660,124 10,670,011 13,640,303 8,516,010 8,762,165 10,497,817 10,801,917 15,365,392 12,207,323 4,071,438 8,307,168 4,530,714 9,171,605 Workers Group Similar in this Total (p) on Alone Occupati Workers 121,519 121,519 864,016 in this 364,016 65,388 65,388 116,343 116,343 856,171 111,643 21,785 65,388 65,388 52,250 52,250 441,189 50,409 Total 23,900 25,129 (C) Paving, Surfacing & Tamping Equip. Ops. Insulation Workers, Floor, Ceiling & Wall Op. Engin. & Other Constr. Equip. Ops. Floor Layers, Ex. Carpet, Wood & Tile Cement Masons & Concrete Finishers Construction & Building Inspectors Drywall & Ceiling Tile Installers **Terrazzo Workers & Finishers** Brickmasons & Blockmasons Floor Sanders & Finishers Construction Carpenters (q) Occupation Pile-Driver Operators **File & Marble Setters** Rough Carpenters Carpet Installers Stonemasons Boilermakers Electricians Glaziers Tapers (4) 47-2022.00 (7) 47-2041.00 (8) 47-2042.00 (1) 47-4011.00 (2) 47-2011.00 (3) 47-2021.00 (5) 47-2031.01 (6) 47-2031.02 (9) 47-2043.00 (10) 47-2044.00 (11) 47-2051.00 (12) 47-2053.00 (13) 47-2071.00 (14) 47-2072.00 (15) 47-2073.00 (16) 47-2081.00 (18) 47-2111.00 (17) 47-2082.00 (19) 47-2121.00 (20) 47-2131.00 (a)

	(a)	(q)	(c)	(p)	(e)	(f)	(d)	(H)	(i)	(i)
(21)	(21) 47-2132.00	Insulation Workers, Mechanical	25,129	13,279,486	160	263,620	0.6%	1.8%	1.2%	1.8%
(22)	(22) 47-2141.00	Painters, Construction & Maintenance	704,494	12,866,017	14,609	237,115	2.1%	2.3%	0.2%	2.3%
(23)	(23) 47-2142.00	Paperhangers	10,501	12,232,376	273	297,576	2.6%	1.6%	-1.0%	2.6%
(24)	(24) 47-2151.00	Pipelayers	217,319	10,647,360	2,797	199,152	1.3%	2.1%	0.8%	2.1%
(25)	(25) 47-2152.01	Pipe Fitters & Steamfitters	217,319	8,755,222	2,797	224,302	1.3%	4.5%	3.2%	4.5%
(26)	(26) 47-2152.02	Plumbers	217,319	16,606,045	2,797	392,025	1.3%	1.6%	0.3%	1.6%
(27)	(27) 47-2161.00	Plasterers & Stucco Masons	53,045	13,862,917	189	264,840	0.4%	1.5%	1.1%	1.5%
(28)	(28) 47-2171.00	Reinforcing Iron & Rebar Workers	11,770	7,753,823	114	204,346	1.0%	3.0%	2.0%	3.0%
(29)	(29) 47-2181.00	Roofers	259,901	12,321,394	1,867	228,942	0.7%	1.3%	0.5%	1.3%
(30)	(30) 47-2211.00	Sheet Metal Workers	148,536	7,958,355	3,353	154,334	2.3%	3.4%	1.2%	3.4%
(31)	(31) 47-2221.00	Structural Iron & Steel Workers	74,999	11,125,325	1,216	271,238	1.6%	1.6%	-0.1%	1.6%
(32)	(32) 47-4021.00	Elevator Installers & Repairers	29,586	16,713,366	582	490,411	2.0%	1.5%	-0.5%	2.0%
(33)	(33) 47-4031.00	Fence Erectors	37,590	10,096,281	92	249,052	0.2%	1.7%	1.5%	1.7%
(34)	(34) 47-4041.00	Hazardous Materials Removal Workers	32,770	9,825,435	720	174,748	2.2%	2.7%	0.5%	2.7%
(35)	(35) 47-4051.00	Highway Maintenance Workers	104,906	11,438,236	753	262,717	0.7%	1.8%	1.1%	1.8%
(36)	(36) 47-4061.00	Rail-Track Laying Equip. Operators	10,786	11,156,387	305	203,474	2.8%	2.3%	-0.6%	2.8%
(37)	(37) 47-4091.00	Segmental Pavers	55,196	12,553,896	616	340,673	1.1%	0.0%	-1.1%	1.1%
(38)	(38) 47-2061.00	Construction Laborers	1,991,439	10,568,450	31,324	201,219	1.6%	1.9%	0.3%	1.9%
(39)	(39) 47-3011.00	HelpersBrickmasons, Blockmasons	18,477	8,991,546	282	173,629	1.5%	3.7%	2.2%	3.7%
(40)	(40) 47-3012 00	HelpersCarpenters	18,477	11,172,335	282	331,367	1.5%	2.9%	1.4%	2.9%
(41)	(41) 47-3013.00	HelpersElectricians	18,477	11;980,331	282	323,327	1.5%	3.3%	1.7%	3.3%
(42)	(42) 47-3014.00	HelpersPainters, Plasterers, etc.	18,477	16,583,462	282	390,228	1.5%	1.8%	0.3%	1.8%
(43)	(43) 47-3015.00	HelpersPipelayers, Plumbers, etc.	18,477	12,995,474	282	303,706	1.5%	2.1%	0.6%	2.1%
(44)	(44) 47-3016.00	HelpersRoofers	18,477	10,276,752	282	271,597	1.5%	1.9%	0.3%	1.9%
(45)	(45) 47-4071.00	Septic Tank Servicers & Sewer Pipe CI.	I	12,296,260	1	252,140	I	2.8%	1	2.8%
(46)	Average (w	(46) Average (weighted by Column (c))					1.8%	2.4%	0.6%	2.5%
(47)	Number an	$^{(47)}$ Number and % of Occupations in which Difference	is Negative					7	16.3%	
(48)	Average (w	(48) Average (weighted by (Column (c)) for EEO-1 Craft	(Skilled) Occupations	cupations			1.8%	2.4%	0.6%	2.5%
(49)	Average (w	⁽⁴⁹⁾ Average (weighted by (Column (c)) for EEO-1 Laborer (Unskilled) Occupations	rer (Unskille	ed) Occupation	S		1.6%	1.9%	0.4%	1.9%

Appendix Table G.4

Availability of American Indians/Alaska Native and Native Hawaiians/Other Pacific Islanders (AINH) in 45 On-Site Construction Occupations, Nationwide, American Community Survey, 2006-2008

(a)	(q)	(c)	(p)	(e)	(f)	(g)	(h)	(i)	()
	Occupation	Total Workers in this Occupation Alone	Total Workers in this Occupation's Similar Occupations Group	Total AINH in this Occupation Alone	AINH in this Occupation's Similar Occupations Group	% AINH in this Occupa- tion Alone	% AINH in this Occupa- tion's Similar Occupa- tions Group	Differ- ence in %s	% AINH in this Occupa- tion using the Higher %
(1) 47-4011.00	Construction & Building Inspectors	111,643	4,071,438	2,218	68,842	2.0%	1.7%	-0.3%	2.0%
(2) 47-2011.00	Boilermakers	21,785	8,307,168	586	164,349	2.7%	2.0%	-0.7%	2.7%
(3) 47-2021.00	Brickmasons & Blockmasons	121,519	13,418,585	3,071	242,018	2.5%	1.8%	-0.7%	2.5%
(4) 47-2022.00	Stonemasons	121,519	4,530,714	3,071	88,635	2.5%	2.0%	-0.6%	2.5%
(5) 47-2031.01	Construction Carpenters	864,016	16,358,364	17,082	286,465	2.0%	1.8%	-0.2%	2.0%
(6) 47-2031.02	Rough Carpenters	864,016	13,387,557	17,082	237,049	2.0%	1.8%	-0.2%	2.0%
(7) 47-2041.00	Carpet Installers	65,388	9,869,015	1,007	205,227	1.5%	2.1%	0.5%	2.1%
(8) 47-2042.00	Floor Layers, Ex. Carpet, Wood & Tile	65,388	10,660,124	1,007	198,459	1.5%	1.9%	0.3%	1.9%
(9) 47-2043.00	Floor Sanders & Finishers	65,388	10,670,011	1,007	221,106	1.5%	2.1%	0.5%	2.1%
(10) 47-2044.00	Tile & Marble Setters	65,388	13,640,303	1,007	259,445	1.5%	1.3%	0.4%	1.9%
(11) 47-2051.00	Cement Masons & Concrete Finishers	52,250	8,516,010	1,369	173,732	2.6%	2.0%	-0.6%	2.6%
(12) 47-2053.00	Terrazzo Workers & Finishers	52,250	9,171,605	1,369	187,929	2.6%	2.0%	-0.6%	2.6%
(13) 47-2071.00	Paving, Surfacing & Tamping Equip. Ops.	23,900	8,762,165	483	181,088	2.0%	2.1%	0.0%	2.1%
(14) 47-2072.00	Pile-Driver Operators	I	10,873,722	0	200,957	I	1.8%	I	1
(15) 47-2073.00	Op. Engin. & Other Constr. Equip. Ops.	441,189	10,497,817	13,303	184,970	3.0%	1.8%	-1.3%	3.0%
(16) 47-2081.00	Drywall & Ceiling Tile Installers	116,343	13,315,565	2,640	246,813	2.3%	1.9%	-0.4%	2.3%
(17) 47-2082.00	Tapers	116,343	10,801,917	2,640	226,107	2.3%	2.1%	-0.2%	2.3%
(18) 47-2111.00	Electricians	856,171	15,365,392	15,229	272,674	1.8%	1.8%	%0.0	1.8%
(19) 47-2121.00	Glaziers	50,409	12,207,323	673	250,525	1.3%	2.1%	0.7%	2.1%
(20) 47-2131.00	Insulation Workers, Floor, Ceiling & Wall	25,129	12,220,869	503	250,408	2.0%	2.0%	0.0%	2.0%

	(9)	(h)	(0)	(4)	(0)	(4)	12)	141	111	19	
1101	100 00 10 LV 1101		01 100	(n)	(2)		(6)	(11)	(1)	()	1-
(17)	41-2132.00	Insulation vvorkers, Mechanical	25,129	13,2/9,486	203	244,722	2.0%	1.8%	-0.2%	2.0%	_
(22)	(22) 47-2141.00	Painters, Construction & Maintenance	704,494	12,866,017	12,668	269,509	1.8%	2.1%	0.3%	2.1%	-
(23)	(23) 47-2142.00	Paperhangers	10,501	12,232,376	86	235,039	0.8%	1.9%	1.1%	1.9%	_
(24)	(24) 47-2151.00	Pipelayers	217,319	10,647,360	4,171	219,783	1.9%	2.1%	0.1%	2.1%	-
(25)	(25) 47-2152.01	Pipe Fitters & Steamfitters	217,319	8,755,222	4,171	158,841	1.9%	1.8%	-0.1%	1.9%	-
(26)	(26) 47-2152.02	Plumbers	217,319	16,606,045	4,171	296,603	1.9%	1.8%	-0.1%	1.9%	_
(27)	(27) 47-2161.00	Plasterers & Stucco Masons	53,045	13,862,917	631	282,471	1.2%	2.0%	0.8%	2.0%	-
(28)	(28) 47-2171.00	Reinforcing Iron & Rebar Workers	11,770	7,753,823	272	146,923	2.3%	1.9%	-0.4%	2.3%	
(29)	(29) 47-2181.00	Roofers	259,901	12,321,394	5,240	254,051	2.0%	2.1%	0.0%	2.1%	-
(30)	(30) 47-2211.00	Sheet Metal Workers	148,536	7,958,355	1,762	160,926	1.2%	2.0%	0.8%	2.0%	-
(31)	(31) 47-2221.00	Structural Iron & Steel Workers	74,999	11,125,325	2,782	201,687	3.7%	1.8%	-1.9%	3.7%	_
(32)	(32) 47-4021.00	Elevator Installers & Repairers	29,586	16,713,366	188	294,427	0.6%	1.8%	1.1%	1.8%	_
(33)	(33) 47-4031.00	Fence Erectors	37,590	10,096,281	939	194,367	2.5%	1.9%	-0.6%	2.5%	
(34)	(34) 47-4041.00	Hazardous Materials Removal Workers	32,770	9,825,435	991	185,365	3.0%	1.9%	-1.1%	3.0%	_
(35)	(35) 47-4051.00	Highway Maintenance Workers	104,906	11,438,236	2,194	215,419	2.1%	1.9%	-0.2%	2.1%	_
(36)	(36) 47-4061.00	Rail-Track Laying Equip. Operators	10,786	11,156,387	352	232,861	3.3%	2.1%	-1.2%	3.3%	
(37)	(37) 47-4091.00	Segmental Pavers	55,196	12,553,896	841	258,007	1.5%	2.1%	0.5%	2.1%	
(38)	(38) 47-2061.00	Construction Laborers	1,991,439	10,568,450	45,033	219,721	2.3%	2.1%	-0.2%	2.3%	
(33)	(39) 47-3011.00	HelpersBrickmasons, Blockmasons	18,477	8,991,546	378	187,131	2.0%	2.1%	0.0%	2.1%	
(40)	(40) 47-3012.00	HelpersCarpenters	18,477	11,172,335	378	218,815	2.0%	2.0%	-0.1%	2.0%	
(41)	(41) 47-3013.00	HelpersElectricians	18,477	11,980,331	378	239,713	2.0%	2.0%	0.0%	2.0%	-
(42)	(42) 47-3014.00	HelpersPainters, Plasterers, etc.	18,477	16,583,462	378	348,616	2.0%	2.1%	0.1%	2.1%	
(43)	(43) 47-3015.00	HelpersPipelayers, Plumbers, etc.	18,477	12,995,474	378	270,716	2.0%	2.1%	0.0%	2.1%	_
(44)	(44) 47-3016.00	HelpersRoofers	18,477	10,276,752	378	204,124	2.0%	2.0%	-0.1%	2.0%	
(45)	(45) 47-4071.00	Septic Tank Servicers & Sewer Pipe CI.	•1	12,296,260	0	226,956	1	1.8%	1	1.8%	_
(46)	Average (w	(46) Average (weighted by Column (c))					2.1%	1.9%	-0.2%	2.2%	
(47)	Number an	(47) Number and % of Occupations in which Difference is Negative	s Negative					25	58.1%		
(48)	Average (w	(48) Average (weighted by (Column (c)) for EEO-1 Craft (Skilled) Occupations	(Skilled) Occı	Ipations			2.0%	1.9%	-0.1%	2.1%	1
(49)	Average (w	(49) Average (weighted by (Column (c)) for EEO-1 Laborer (Unskilled) Occupations	er (Unskilled)	Occupations			2.2%	2.1%	-0.2%	2.3%	
'								-			

Availability of Hispanics in 45 On-Site Construction Occupations, Nationwide, American Community Survey, 2006-2008 Appendix Table G.5

Hispanics tion using the Higher Occupain this 12.6% 26.3% 34.7% 34.7% 25.5% 25.5% 38.6% 38.6% 38.6% 38.6% 42.8% 42.8% 26.8% 20.9% 18.0% 51.2% 18.4% 51.2% 27.6% 34.0% % % (i) -10.5% in %s -13.4% -11.6% -11.7% -11.4% -13.1% -31.0% -20.9% 14.6% -5.9% -7.1% -6.3% -6.6% ence Differ-2.9% 5.9% 4.8% 4.1% 11.1% -2.8% (E) ł % Hispanics tions Group Occupa-Occupa-Similar in this tion's 28.7% 28.1% 27.0% 31.4% 29.8% 26.8% 20.9% 18.0% 20.2% 30.3% 12.6% 26.3% 21.2% 18.4% 19.2% 27.0% 32.0% 18.4% 27.6% 31.3% (H) tion Alone Hispanics Occupain this 25.5% 25.5% 38.6% 38.6% 34.7% 38.6% 38.6% 42.8% 42.8% 20.9% 13.2% 51.2% 51.2% 14.3% 11.7% 34.7% 16.5% 34.0% 9.7% ł % (6) Occupation's Occupations Hispanics in 3,415,628 2,348,428 1,889,512 3,277,854 2,569,145 2,998,317 2,677,696 2,731,479 2,274,344 2,692,723 2,186,963 ,300,431 3,005,994 2,667,011 3,677,367 2,826,867 3,369,199 3,821,329 2,849,161 Similar Group 514.241 this Ð Occupation Hispanics in this 42,107 220,300 220,300 25,252 25,252 25,252 25,252 22,388 22,388 58,213 59,583 59,583 122,787 Alone 42,107 10,862 2,548 4,994 8,314 8,553 ł (e) Occupation's Occupations 13,640,303 13,315,565 13,418,585 16,358,364 10,670,011 10,497,817 15,365,392 9,869,015 10,660,124 8,516,010 10,873,722 10,801,917 12,207,323 12,220,869 4,530,714 13,387,557 9,171,605 8,762,165 Workers 4,071,438 8,307,168 Similar Group in this Total (p Occupati on Alone Workers 111,643 121,519 121,519 864,016 364,016 116,343 21,785 441,189 116,343 in this 65,388 65,388 65,388 52,250 52,250 23,900 50,409 25,129 Total 65,388 856,171 ł (C) Paving, Surfacing & Tamping Equip. Ops. Insulation Workers, Floor, Ceiling & Wall Op. Engin. & Other Constr. Equip. Ops. Floor Layers, Ex. Carpet, Wood & Tile Cement Masons & Concrete Finishers Construction & Building Inspectors Drywall & Ceiling Tile Installers **Terrazzo Workers & Finishers** Brickmasons & Blockmasons Floor Sanders & Finishers Construction Carpenters (q) Occupation Pile-Driver Operators **File & Marble Setters** Rough Carpenters Carpet Installers Stonemasons Boilermakers Electricians Glaziers **Tapers** (2) 47-2011.00 (3) 47-2021.00 (1) 47-4011.00 (4) 47-2022.00 (6) 47-2031.02 (7) 47-2041.00 (8) 47-2042.00 (9) 47-2043.00 (10) 47-2044.00 (11) 47-2051.00 (12) 47-2053.00 (13) 47-2071.00 (14) 47-2072.00 (15) 47-2073.00 16) 47-2081.00 17) 47-2082.00 18) 47-2111.00 19) 47-2121.00 (20) 47-2131.00 (5) 47-2031.01 (a)

	(a)	(b)	(c)	(p)	(e)	(f)	(a)	(H)	(i)	(i)	
(21)	(21) 47-2132.00	Insulation Workers, Mechanical	25,129	13,279,486	0	2,546,520	0.0%	19.2%	19.2%	19.2%	
(22)	(22) 47-2141.00	Painters, Construction & Maintenance	704,494	12,866,017	263,970	3,989,011	37.5%	31.0%	-6.5%	37.5%	
(23)	(23) 47-2142.00	Paperhangers	10,501	12,232,376	1,188	2,998,550	11.3%	24.5%	13.2%	24.5%	
(24)	(24) 47-2151.00	Pipelayers	217,319	10,647,360	42,905	3,174,443	19.7%	29.8%	10.1%	29.8%	_
(25)	(25) 47-2152.01	Pipe Fitters & Steamfitters	217,319	8,755,222	42,905	1,741,493	19.7%	19.9%	0.1%	19.9%	
(26)	(26) 47-2152.02	Plumbers	217,319	16,606,045	42,905	3,156,084	19.7%	19.0%	-0.7%	19.7%	_
(27)	(27) 47-2161.00	Plasterers & Stucco Masons	53,045	13,862,917	30,430	4,306,616	57.4%	31.1%	-26.3%	57.4%	
(28)	(28) 47-2171.00	Reinforcing Iron & Rebar Workers	11,770	7,753,823	3,490	1,775,127	29.7%	22.9%	-6.8%	29.7%	
(29)	(29) 47-2181.00	Roofers	259,901	12,321,394	108,876	3,454,777	41.9%	28.0%	-13.9%	41.9%	1
(30)	(30) 47-2211.00	Sheet Metal Workers	148,536	7,958,355	19,608	2,193,123	13.2%	27.6%	14.4%	27.6%	
(31)	(31) 47-2221.00	Structural Iron & Steel Workers	74,999	11,125,325	13,298	2,255,328	17.7%	20.3%	2.5%	20.3%	
(32)	(32) 47-4021.00	Elevator Installers & Repairers	29,586	16,713,366	2,872	.2,926,286	9.7%	17.5%	7.8%	17.5%	
(33)	(33) 47-4031.00	Fence Erectors	37,590	10,096,281	12,066	3,076,941	32.1%	30.5%	-1.6%	32.1%	
(34)	(34) 47-4041.00	Hazardous Materials Removal Workers	32,770	9,825,435	9,613	2,073,737	29.3%	21.1%	-8.2%	29.3%	_
(35)	(35) 47-4051.00	Highway Maintenarice Workers	104,906	11,438,236	12,205	2,870,069	11.6%	. 25.1%	13.5%	25.1%	
(36)	(36) 47-4061.00	Rail-Track Laying Equip. Operators	10,786	11,156,387	1,333	3,264,090	12.4%	29.3%	16.9%	29.3%	
(37)	(37) 47-4091.00	Segmental Pavers	55,196	12,553,896	11,174	3,456,125	20.2%	27.5%	7.3%	27.5%	
(38)	(38) 47-2061.00	Construction Laborers	1,991,439	10,568,450	736,271	3,032,353	37.0%	28.7%	-8.3%	37.0%	
(39)	(39) 47-3011.00	HelpersBrickmasons, Blockmasons	18,477	8,991,546	7,516	2.492,193	40.7%	27.7%	-13.0%	40.7%	1
(40)	(40) 47-3012.00	HelpersCarpenters	18,477	11,172,335	7,516	3,364,052	40.7%	30.1%	-10.6%	40.7%	
(41)	(41) 47-3013.00	HelpersElectricians	18,477	11,980,331	7,516	3,042,729	40.7%	25.4%	-15.3%	40.7%	
(42)	(42) 47-3014.00	HelpersPainters, Plasterers, etc.	18,477	16,583,462	7,516	5,240,762	40.7%	31.6%	-9.1%	40.7%	
(43)	(43) 47-3015.00	HelpersPipelayers, Plumbers, etc.	18,477	12,995,474	7,516	3,692,360	40.7%	28.4%	-12.3%	40.7%	
(44)	(44) 47-3016.00	HelpersRoofers	18,477	10,276,752	7,516	2,836,985	40.7%	27.6%	-13.1%	40.7%	
(45)	(45) 47-4071.00	Septic Tank Servicers & Sewer Pipe CI.	1	12,296,260	1	2,977,890	I	24.2%	1	24.2%	
(46)	Average (w	(46) Average (weighted by Column (c))					28.6%	24.1%	-4.5%	30.3%	
(47)	Number an	(47) Number and % of Occupations in which Difference is	is Negative					27	62.8%		
(48)	Average (w	(48) Average (weighted by (Column (c)) for EEO-1 Craft (Skilled) Occupations	(Skilled) Od	cupations			26.0%	22.8%	-3.2%	28.3%	
(49)	Average (w	(49) Average (weighted by (Column (c)) for EEO-1 Laborer	rer (Unskille	(Unskilled) Occupations	IS		37.2%	28.7%	-8.5%	37.2%	

APPENDIX H

Table H.1

Availabilities for Skilled and Unskilled Construction Occuptions in Local Labor Markets Calculated Using the Methodology in Chapter 6

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Economic Area	Occupation	Women	Hispanics	Whites	Af. Ams.	Asians	AINH
	Craft Workers (Skilled)	7.9%	21.6%	65.0%	9.3%	2.2%	1.4%
Nationwide	Laborers & Helpers (Unskilled)	9.8%	27.1%	57.8%	11.2%	1.9%	1.5%
	All On-Site Construction Occupations	8.3%	23.0%	63.2%	9.8%	2.1%	1.4%
	Craft Workers (Skilled)	8.7%	0.9%	89.4%	0.1%	0.1%	9.4%
Aberdeen, SD	Laborers & Helpers (Unskilled)	13.4%	2.6%	81.0%	0.5%	0.2%	15.6%
	All On-Site Construction Occupations	9.8%	1.3%	87.5%	0.2%	0.1%	10.8%
	Craft Workers (Skilled)	6.4%	21.3%	74.7%	2.9%	0.0%	1.0%
Abilene, TX	Laborers & Helpers (Unskilled)	5.7%	27.8%	67.1%	3.0%	0.1%	1.5%
	All On-Site Construction Occupations	6.2%	22.9%	72.8%	2.9%	0.1%	1.1%
	Craft Workers (Skilled)	7.9%	8.3%	65.2%	25.1%	0.3%	0.8%
Albany, GA	Laborers & Helpers (Unskilled)	11.4%	11.3%	55.6%	32.0%	0.3%	0.8%
-	All On-Site Construction Occupations	9.1%	9.3%	62.0%	27.4%	0.3%	0.8%
Albany-	Craft Workers (Skilled)	7.2%	2.7%	93.1%	2.4%	0.5%	1.0%
Schenectady-	Laborers & Helpers (Unskilled)	10.5%	1.8%	93.2%	3.0%	0.5%	1.0%
Amsterdam, NY	All On-Site Construction Occupations	8.0%	2.5%	93.2%	2.5%	0.5%	1.0%
	Craft Workers (Skilled)	6.9%	54.8%	31.4%	2.1%	0.5%	10.8%
Albuquerque, NM	Laborers & Helpers (Unskilled)	6.5%	65.2%	22.6%	1.1%	0.3%	10.1%
	All On-Site Construction Occupations	6.8%	57.8%	29.0%	1.8%	0.4%	10.6%
	Craft Workers (Skilled)	6.7%	2.3%	95.7%	0.1%	0.2%	1.7%
Alpena, MI	Laborers & Helpers (Unskilled)	10.9%	1.8%	95.3%	0.0%	0.4%	2.4%
	All On-Site Construction Occupations	7.5%	2.2%	95.7%	0.1%	0.2%	1.8%
	Craft Workers (Skilled)	6.6%	39.6%	55.3%	2.2%	0.5%	2.0%
Amarillo, TX	Laborers & Helpers (Unskilled)	7.8%	44.8%	47.8%	5.1%	0.6%	0.8%
	All On-Site Construction Occupations	6.9%	41.1%	53.2%	3.1%	0.5%	1.7%
	Craft Workers (Skilled)	5.3%	3.7%	74.5%	1.8%	2.1%	16.7%
Anchorage, AK	Laborers & Helpers (Unskilled)	8.8%	7.0%	64.1%	2.2%	2.1%	23.4%
	All On-Site Construction Occupations	6.0%	4.3%	72.4%	1.8%	2.1%	18.0%
Appleten Ochlech	Craft Workers (Skilled)	8.6%	2.5%	94.3%	0.8%	0.9%	1.5%
Appleton-Oshkosh-	Laborers & Helpers (Unskilled)	14.4%	2.8%	93.4%	0.7%	0.6%	2.4%
Neenah, WI	All On-Site Construction Occupations	9.8%	2.5%	94.1%	0.8%	0.9%	1.7%
Ashavilla Dravard	Craft Workers (Skilled)	8.9%	7.8%	87.6%	2.6%	0.3%	1.5%
Asheville-Brevard,	Laborers & Helpers (Unskilled)	12.3%	8.4%	85.1%	3.4%	1.1%	1.9%
NC	All On-Site Construction Occupations	9.7%	7.9%	87.1%	2.8%	0.5%	1.6%
Atlanta-Sandy	Craft Workers (Skilled)	8.0%	19.0%	58.8%	19.3%	1.6%	0.7%
Springs-	Laborers & Helpers (Unskilled)	11.8%	28.1%	46.7%	23.0%	1.0%	0.6%
Gainesville, GA-	All On-Site Construction Occupations	9.1%	21.5%	55.5%	20.3%	1.4%	0.7%
Augusta-	Craft Workers (Skilled)	10.0%	3.8%	59.4%	35.5%	0.2%	0.9%
Richmond County,	Laborers & Helpers (Unskilled)	12.2%	5.5%	48.6%	44.4%	0.2%	0.8%
GA-SC	All On-Site Construction Occupations	10.6%	4.2%	56.6%	37.8%	0.2%	0.9%
Associal Designal	Craft Workers (Skilled)	6.1%	49.6%	42.4%	4.9%	1.7%	0.6%
Austin-Round	Laborers & Helpers (Unskilled)	7.2%	61.0%	32.3%	5.1%	0.7%	0.6%
Rock, TX	All On-Site Construction Occupations	6.4%	52.8%	39.5%	4.9%	1.4%	0.6%
	Craft Workers (Skilled)	6.2%	0.9%	96.8%	0.3%	0.2%	1.8%
Bangor, ME	Laborers & Helpers (Unskilled)	10.4%	2.0%	94.6%	0.1%	0.0%	3.1%
	All On-Site Construction Occupations	7.1%	1.1%	96.4%	0.3%	0.1%	2.1%
Datan Davas	Craft Workers (Skilled)	5.6%	4.9%	61.8%	31.3%	0.8%	0.7%
Baton Rouge-	Laborers & Helpers (Unskilled)	7.0%	6.1%	53.0%	38.6%	0.3%	1.1%
Pierre Part, LA	All On-Site Construction Occupations	5.9%	5.2%	59.9%	32.9%	0.7%	0.8%
		0.070	0.270	00.070	02.070	0.1 /0	0.070

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Economic Area	Occupation	Women	Hispanics	Whites	Af. Ams.	Asians	AINH
	Craft Workers (Skilled)	5.8%	12.6%	67.5%	18.2%	0.8%	0.6%
Beaumont-Port	Laborers & Helpers (Unskilled)	6.5%	21.0%	55.0%	21.7%	1.4%	0.4%
Arthur, TX	All On-Site Construction Occupations	6.0%	14.5%	64.8%	19.0%	0.9%	0.5%
	Craft Workers (Skilled)	10.4%	12.7%	84.0%	0.3%	0.5%	2.4%
Bend-Prineville,	Laborers & Helpers (Unskilled)	9.7%	17.5%	80.5%	0.0%	0.1%	1.9%
OR	All On-Site Construction Occupations	10.2%	14.0%	83.0%	0.2%	0.4%	2.2%
	Craft Workers (Skilled)	7.3%	5.0%	88.7%	0.2%	0.1%	6.0%
Billings, MT	Laborers & Helpers (Unskilled)	10.3%	7.2%	84.4%	0.4%	0.0%	7.9%
5 /	All On-Site Construction Occupations	8.1%	5.5%	87.6%	0.3%	0.0%	6.5%
Birmingham-	Craft Workers (Skilled)	9.2%	5.8%	71.6%	21.4%	0.1%	1.0%
Hoover-Cullman,	Laborers & Helpers (Unskilled)	10.7%	11.0%	60.3%	27.7%	0.0%	0.9%
AL	All On-Site Construction Occupations	9.6%	7.2%	68.6%	23.1%	0.1%	1.0%
	Craft Workers (Skilled)	7.4%	1.1%	86.2%	0.1%	0.1%	12.3%
Bismarck, ND	Laborers & Helpers (Unskilled)	9.4%	2.2%	81.0%	0.4%	0.2%	16.2%
,	All On-Site Construction Occupations	7.8%	1.3%	85.1%	0.2%	0.1%	13.2%
	Craft Workers (Skilled)	9.2%	15.7%	79.8%	0.7%	0.7%	2.6%
Boise City-Nampa,	Laborers & Helpers (Unskilled)	13.2%	18.2%	78.2%	0.9%	1.2%	1.5%
ID	All On-Site Construction Occupations	10.0%	16.2%	79.5%	0.7%	0.8%	2.4%
Boston-Worcester-	· · · ·	7.4%	7.9%	84.7%	3.1%	2.2%	0.6%
Manchester, MA-	Laborers & Helpers (Unskilled)	9.4%	11.0%	80.4%	4.1%	1.8%	0.6%
NH	All On-Site Construction Occupations	7.8%	8.5%	83.8%	3.3%	2.1%	0.6%
Duffala Nianana	Craft Workers (Skilled)	8.1%	2.4%	90.6%	5.6%	0.4%	0.9%
Buffalo-Niagara-	Laborers & Helpers (Unskilled)	11.0%	2.9%	86.8%	8.4%	0.6%	1.1%
Cattaraugus, NY	All On-Site Construction Occupations	8.7%	2.5%	89.8%	6.2%	0.4%	0.9%
Durlin et au Oauth	Craft Workers (Skilled)	8.4%	0.6%	97.8%	0.1%	0.2%	1.3%
Burlington-South	Laborers & Helpers (Unskilled)	12.7%	0.2%	98.1%	0.1%	0.5%	1.1%
Burlington, VT	All On-Site Construction Occupations	9.2%	0.6%	97.8%	0.1%	0.3%	1.3%
Cono Cirordoou	Craft Workers (Skilled)	7.5%	0.8%	95.0%	3.1%	0.3%	0.9%
Cape Girardeau-	Laborers & Helpers (Unskilled)	9.8%	1.3%	92.9%	4.3%	0.2%	1.3%
Jackson, MO-IL	All On-Site Construction Occupations	8.1%	0.9%	94.4%	3.4%	0.3%	1.0%
	Craft Workers (Skilled)	8.1%	9.6%	88.5%	0.4%	0.3%	1.2%
Casper, WY	Laborers & Helpers (Unskilled)	12.4%	16.1%	79.8%	1.1%	1.0%	1.9%
	All On-Site Construction Occupations	9.1%	11.2%	86.4%	0.5%	0.5%	1.4%
	Craft Workers (Skilled)	10.4%	3.2%	94.3%	1.0%	0.7%	0.8%
Cedar Rapids, IA	Laborers & Helpers (Unskilled)	14.9%	5.7%	91.2%	1.9%	0.7%	0.4%
	All On-Site Construction Occupations	11.6%	3.8%	93.5%	1.2%	0.7%	0.7%
Champaign	Craft Workers (Skilled)	10.5%	1.8%	93.3%	3.7%	0.4%	0.7%
Champaign-	Laborers & Helpers (Unskilled)	11.6%	2.3%	89.4%	7.0%	0.5%	0.6%
Urbana, IL	All On-Site Construction Occupations	10.8%	1.9%	92.4%	4.5%	0.5%	0.7%
	Craft Workers (Skilled)	4.5%	0.6%	97.5%	1.3%	0.2%	0.3%
Charleston, WV	Laborers & Helpers (Unskilled)	8.0%	0.6%	97.4%	1.3%	0.2%	0.5%
	All On-Site Construction Occupations	5.2%	0.6%	97.4%	1.3%	0.2%	0.3%
Charleston-North	Craft Workers (Skilled)	8.0%	6.4%	59.4%	31.0%	0.9%	1.8%
Charleston, SC	Laborers & Helpers (Unskilled)	8.2%	9.6%	48.0%	39.2%	0.2%	2.4%
Chaneston, SC	All On-Site Construction Occupations	8.1%	7.3%	56.3%	33.2%	0.8%	2.0%
Charlotte-Gastonia	Craft Workers (Skilled)	9.2%	14.5%	67.4%	15.5%	1.2%	0.9%
Salisbury, NC-SC	Laborers & Helpers (Unskilled)	14.6%	18.9%	58.7%	20.6%	1.1%	0.4%
	All On-Site Construction Occupations	10.4%	15.5%	65.5%	16.7%	1.2%	0.8%
Chicago-	Craft Workers (Skilled)	7.8%	25.1%	62.3%	10.1%	1.8%	0.3%
Naperville-	Laborers & Helpers (Unskilled)	10.2%	32.5%	52.1%	13.1%	1.2%	0.5%
Michigan City, IL-	All On-Site Construction Occupations	8.4%	26.9%	59.9%	10.8%	1.7%	0.4%
Cincinnati-	Craft Workers (Skilled)	9.0%	1.6%	90.1%	7.1%	0.5%	0.6%
la er i in la	Laborers & Helpers (Unskilled)	12.7%	2.8%	85.3%	9.9%	1.0%	0.8%
Middletown-	Laborers & helpers (Oriskilled)	12.1 /0	2.070	00.070	0.070	1.070	0.070

(a)	(b)	(c)	(d)	(e)	(f)	(a)	(h)
Economic Area	Occupation	Women	Hispanics	Whites	Af. Ams.	(g) Asians	AINH
	Craft Workers (Skilled)	4.1%	0.1%	98.7%	0.7%	0.1%	0.3%
Clarksburg, WV +	Laborers & Helpers (Unskilled)	7.1%	0.4%	96.1%	3.0%	0.0%	0.4%
Morgantown, WV	All On-Site Construction Occupations	4.8%	0.2%	98.1%	1.3%	0.1%	0.3%
	Craft Workers (Skilled)	10.4%	2.7%	87.5%	8.5%	0.6%	0.6%
Cleveland-Akron-	Laborers & Helpers (Unskilled)	12.4%	3.3%	84.3%	11.0%	0.6%	0.5%
Elyria, OH	All On-Site Construction Occupations	10.9%	2.8%	86.7%	9.1%	0.6%	0.6%
	Craft Workers (Skilled)	6.7%	20.5%	72.9%	3.1%	0.6%	1.8%
Colorado Springs,	Laborers & Helpers (Unskilled)	6.4%	21.8%	70.6%	3.1%	1.8%	2.2%
со	All On-Site Construction Occupations	6.6%	20.8%	72.4%	3.1%	0.9%	1.9%
	Craft Workers (Skilled)	8.5%	1.7%	94.6%	2.6%	0.3%	0.7%
Columbia, MO	Laborers & Helpers (Unskilled)	11.1%	2.3%	93.7%	2.6%	0.3%	1.2%
, -	All On-Site Construction Occupations	9.3%	1.9%	94.3%	2.6%	0.3%	0.8%
	Craft Workers (Skilled)	8.8%	6.1%	58.2%	34.2%	0.4%	0.8%
Columbia-	Laborers & Helpers (Unskilled)	11.7%	8.4%	48.4%	42.3%	0.2%	0.3%
Newberry, SC	All On-Site Construction Occupations	9.6%	6.7%	55.7%	36.2%	0.3%	0.7%
	Craft Workers (Skilled)	10.1%	5.2%	58.5%	35.1%	0.4%	0.6%
Columbus-Auburn-	Laborers & Helpers (Unskilled)	12.5%	7.0%	51.7%	40.4%	0.3%	0.3%
Opelika, GA-AL	All On-Site Construction Occupations	10.8%	5.7%	56.6%	36.6%	0.3%	0.5%
	Craft Workers (Skilled)	9.7%	2.8%	89.3%	6.4%	0.5%	0.9%
Columbus-Marion-	Laborers & Helpers (Unskilled)	13.6%	2.8%	87.3%	8.4%	0.5%	0.9%
Chillicothe, OH	All On-Site Construction Occupations	10.6%	2.8%	88.8%	6.9%	0.5%	0.9%
	Craft Workers (Skilled)	4.2%	75.5%	21.7%	2.1%	0.3%	0.4%
Corpus Christi-	Laborers & Helpers (Unskilled)	5.9%	81.0%	15.2%	2.0%	0.7%	1.0%
Kingsville, TX	All On-Site Construction Occupations	4.6%	76.8%	20.1%	2.1%	0.4%	0.5%
	Craft Workers (Skilled)	7.1%	41.3%	46.7%	8.4%	1.7%	1.6%
Dallas-Fort Worth,	Laborers & Helpers (Únskilled)	7.5%	51.6%	36.0%	9.7%	1.0%	1.4%
ТХ	All On-Site Construction Occupations	7.2%	44.3%	43.6%	8.8%	1.5%	1.5%
Devenue est Meline	Craft Workers (Skilled)	9.8%	3.9%	92.2%	2.2%	0.8%	0.8%
Davenport-Moline-	Laborers & Helpers (Unskilled)	14.4%	4.0%	90.3%	4.4%	0.3%	0.4%
Rock Island, IA-IL	All On-Site Construction Occupations	10.7%	3.9%	91.8%	2.7%	0.7%	0.7%
Deuten Onderstald	Craft Workers (Skilled)	12.3%	1.6%	89.8%	6.9%	0.9%	0.6%
Dayton-Springfield	Laborers & Helpers (Unskilled)	13.9%	2.1%	88.9%	7.5%	0.4%	0.9%
Greenville, OH	All On-Site Construction Occupations	12.7%	1.7%	89.6%	7.1%	0.8%	0.7%
	Craft Workers (Skilled)	7.0%	29.8%	64.2%	2.7%	1.6%	1.4%
Denver-Aurora-	Laborers & Helpers (Unskilled)	8.3%	39.5%	53.9%	3.4%	1.4%	1.3%
Boulder, CO	All On-Site Construction Occupations	7.4%	32.3%	61.5%	2.9%	1.5%	1.4%
Dee Mainee	Craft Workers (Skilled)	9.3%	5.3%	91.5%	1.5%	1.2%	0.4%
Des Moines-	Laborers & Helpers (Unskilled)	13.1%	5.7%	91.3%	1.4%	1.2%	0.5%
Newton-Pella, IA	All On-Site Construction Occupations	10.2%	5.4%	91.4%	1.4%	1.2%	0.4%
Detroit-Warren-	Craft Workers (Skilled)	10.2%	4.8%	80.5%	12.5%	1.0%	0.9%
	Laborers & Helpers (Unskilled)	12.3%	6.4%	76.2%	15.1%	0.8%	0.9%
Flint, MI	All On-Site Construction Occupations	10.6%	5.1%	79.6%	13.1%	0.9%	0.9%
Dothan-Enterprise-	Craft Workers (Skilled)	9.2%	4.8%	66.6%	27.1%	0.3%	1.0%
Ozark, AL	Laborers & Helpers (Unskilled)	11.1%	5.8%	58.2%	34.9%	0.4%	0.3%
Ozark, AL	All On-Site Construction Occupations	9.7%	5.0%	64.5%	29.1%	0.4%	0.8%
	Craft Workers (Skilled)	7.0%	10.1%	69.2%	19.0%	0.6%	0.7%
Dover, DE	Laborers & Helpers (Unskilled)	10.5%	12.6%	61.8%	23.9%	0.9%	0.6%
	All On-Site Construction Occupations	7.8%	10.7%	67.5%	20.1%	0.7%	0.6%
	Craft Workers (Skilled)	8.2%	0.6%	95.7%	0.3%	0.3%	3.0%
Duluth, MN-WI	Laborers & Helpers (Unskilled)	10.0%	0.9%	93.9%	0.3%	0.0%	4.9%
	All On-Site Construction Occupations	8.5%	0.7%	95.4%	0.3%	0.2%	3.4%
	Craft Workers (Skilled)	5.6%	71.9%	24.9%	1.6%	0.3%	1.2%
El Paso, TX	Laborers & Helpers (Unskilled)	6.2%	80.2%	17.5%	0.7%	0.1%	1.3%
	All On-Site Construction Occupations	5.8%	74.4%	22.6%	1.3%	0.2%	1.2%

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Economic Area	Occupation	Women	Hispanics	Whites	Af. Ams.	Asians	AINH
	Craft Workers (Skilled)	8.7%	1.9%	94.1%	2.0%	0.3%	1.1%
Erie, PA	Laborers & Helpers (Unskilled)	11.1%	2.7%	92.8%	2.7%	0.3%	1.1%
	All On-Site Construction Occupations	9.2%	2.1%	93.8%	2.1%	0.3%	1.1%
F	Craft Workers (Skilled)	7.3%	7.2%	87.5%	0.4%	0.7%	4.1%
Eugene-	Laborers & Helpers (Unskilled)	9.3%	8.6%	87.7%	0.0%	0.9%	2.8%
Springfield, OR	All On-Site Construction Occupations	7.8%	7.5%	87.5%	0.3%	0.8%	3.7%
	Craft Workers (Skilled)	7.9%	1.3%	95.6%	2.3%	0.3%	0.5%
Evansville, IN-KY	Laborers & Helpers (Unskilled)	10.2%	2.8%	93.0%	3.0%	0.6%	0.4%
	All On-Site Construction Occupations	8.4%	1.6%	95.1%	2.5%	0.3%	0.5%
Forgo Webpoton	Craft Workers (Skilled)	8.9%	1.8%	91.9%	0.8%	0.4%	5.0%
Fargo-Wahpeton,	Laborers & Helpers (Unskilled)	11.8%	2.0%	90.6%	1.5%	0.2%	5.6%
ND-MN	All On-Site Construction Occupations	9.6%	1.9%	91.5%	1.0%	0.4%	5.2%
	Craft Workers (Skilled)	7.9%	19.5%	68.5%	0.3%	0.3%	10.7%
Farmington, NM	Laborers & Helpers (Unskilled)	9.4%	28.6%	55.4%	0.0%	0.2%	13.9%
-	All On-Site Construction Occupations	8.3%	21.7%	65.4%	0.2%	0.3%	11.5%
Fayetteville-	Craft Workers (Skilled)	8.9%	10.0%	76.9%	1.2%	0.5%	11.0%
Springdale-	Laborers & Helpers (Unskilled)	11.1%	14.9%	69.1%	2.3%	0.5%	12.8%
Rogers, AR-MO	All On-Site Construction Occupations	9.4%	11.1%	75.2%	1.4%	0.5%	11.4%
	Craft Workers (Skilled)	6.8%	12.5%	74.1%	0.2%	0.7%	12.3%
Flagstaff, AZ	Laborers & Helpers (Unskilled)	9.0%	22.0%	61.4%	0.0%	0.6%	15.9%
	All On-Site Construction Occupations	7.4%	14.7%	71.2%	0.1%	0.7%	13.2%
	Craft Workers (Skilled)	9.7%	6.0%	76.3%	3.1%	1.6%	12.5%
Fort Smith, AR-OK	Laborers & Helpers (Unskilled)	9.8%	8.5%	70.3%	4.6%	1.0%	15.4%
	All On-Site Construction Occupations	9.7%	6.7%	74.7%	3.5%	1.5%	13.3%
Fort Wayne-	Craft Workers (Skilled)	12.9%	6.1%	88.8%	3.0%	0.7%	1.3%
Huntington-	Laborers & Helpers (Unskilled)	13.4%	8.3%	84.8%	4.4%	1.2%	1.3%
Auburn, IN	All On-Site Construction Occupations	13.0%	6.6%	87.9%	3.3%	0.8%	1.3%
Fresno-Madera,	Craft Workers (Skilled)	8.1%	55.1%	38.0%	1.7%	3.6%	1.4%
CA	Laborers & Helpers (Unskilled)	7.7%	58.2%	35.5%	2.0%	2.7%	1.3%
CA	All On-Site Construction Occupations	8.0%	55.9%	37.4%	1.8%	3.3%	1.4%
	Craft Workers (Skilled)	5.2%	8.1%	76.8%	12.5%	0.3%	2.2%
Gainesville, FL	Laborers & Helpers (Unskilled)	4.8%	11.2%	64.7%	21.5%	0.4%	2.2%
	All On-Site Construction Occupations	5.1%	8.8%	74.0%	14.5%	0.3%	2.2%
Grand Forks, ND-	Craft Workers (Skilled)	9.4%	2.5%	92.5%	0.8%	0.7%	3.5%
MN	Laborers & Helpers (Unskilled)	15.9%	1.3%	93.0%	1.6%	0.3%	3.8%
IVIIN	All On-Site Construction Occupations	10.7%	2.2%	92.6%	1.0%	0.6%	3.6%
Grand Rapids-	Craft Workers (Skilled)	11.9%	7.5%	86.0%	4.3%	1.0%	1.1%
Muskegon-	Laborers & Helpers (Unskilled)	14.2%	9.2%	84.4%	4.7%	0.9%	0.8%
Holland, MI	All On-Site Construction Occupations	12.4%	7.9%	85.7%	4.4%	1.0%	1.0%
	Craft Workers (Skilled)	7.8%	2.3%	83.0%	0.5%	0.1%	14.0%
Great Falls, MT	Laborers & Helpers (Unskilled)	12.1%	0.4%	85.5%	0.4%	0.0%	13.7%
	All On-Site Construction Occupations	9.0%	1.7%	83.7%	0.5%	0.1%	13.9%
Greensboro	Craft Workers (Skilled)	8.9%	12.4%	72.1%	14.0%	0.6%	0.6%
Winston-Salem	Laborers & Helpers (Unskilled)	13.2%	15.8%	62.8%	19.6%	0.7%	0.5%
High Point, NC	All On-Site Construction Occupations	9.9%	13.2%	69.9%	15.3%	0.6%	0.6%
	Craft Workers (Skilled)	8.2%	9.3%	65.4%	23.3%	0.3%	1.3%
Greenville, NC	Laborers & Helpers (Unskilled)	10.9%	12.4%	57.8%	28.6%	0.3%	0.8%
	All On-Site Construction Occupations	8.6%	9.8%	64.2%	24.2%	0.3%	1.2%
Greenville-	Craft Workers (Skilled)	9.8%	8.5%	73.3%	16.9%	0.6%	0.6%
Spartanburg-	Laborers & Helpers (Unskilled)	12.6%	13.5%	63.6%	22.0%	0.7%	0.3%
Anderson, SC	All On-Site Construction Occupations	10.5%	9.8%	70.8%	18.2%	0.6%	0.5%
Gulfport-Biloxi-	Craft Workers (Skilled)	8.9%	6.6%	79.0%	13.4%	0.6%	0.5%
Pascagoula, MS	Laborers & Helpers (Unskilled)	12.8%	8.2%	69.2%	20.5%	1.8%	0.3%
i ascayoula, ivis	All On-Site Construction Occupations	9.8%	7.0%	76.8%	15.0%	0.9%	0.4%

			(4)	(0)	(5)	(~)	(h)
(a) Economic Area	(b)	(c) Women	(d)	(e) Whites	(f) Af. Ams.	(g) Asians	(h) AINH
	Occupation Craft Workers (Skilled)	8.4%	Hispanics 3.8%	92.3%	2.7%	0.7%	0.3%
THarrishirn-Carlisia.	· · · · ·			92.3% 89.8%			
I enanon PA	Laborers & Helpers (Unskilled)	14.3%	4.9%		3.7%	1.0%	0.2%
	All On-Site Construction Occupations	9.8%	4.0%	91.8%	2.9%	0.8%	0.3%
	Craft Workers (Skilled)	8.8%	2.9%	91.2%	4.9%	0.3%	0.6%
-	Laborers & Helpers (Unskilled)	14.8%	4.3%	88.0%	5.5%	0.9%	1.1%
	All On-Site Construction Occupations	10.2%	3.2%	90.5%	5.0%	0.4%	0.7%
	Craft Workers (Skilled)	7.4%	9.5%	82.6%	5.5%	1.4%	0.6%
	Laborers & Helpers (Unskilled)	9.3%	11.8%	78.8%	7.2%	1.0%	0.3%
	All On-Site Construction Occupations	7.8%	9.9%	81.9%	5.8%	1.4%	0.5%
	Craft Workers (Skilled)	8.5%	2.3%	91.3%	0.3%	0.3%	5.7%
	Laborers & Helpers (Unskilled)	12.7%	1.6%	90.2%	0.3%	0.2%	7.6%
	All On-Site Construction Occupations	9.4%	2.2%	91.1%	0.3%	0.3%	6.1%
	Craft Workers (Skilled)	5.7%	10.2%	24.2%	2.0%	37.1%	15.5%
Honolulu, HI	Laborers & Helpers (Unskilled)	7.2%	12.6%	21.9%	1.5%	34.6%	18.7%
	All On-Site Construction Occupations	6.0%	10.7%	23.7%	1.9%	36.6%	16.2%
Houston-Baytown-	Craft Workers (Skilled)	5.4%	51.8%	34.5%	10.9%	1.9%	0.6%
Houston-Baytown- Huntsville, TX	Laborers & Helpers (Unskilled)	6.1%	60.4%	25.1%	12.3%	1.4%	0.4%
	All On-Site Construction Occupations	5.5%	53.9%	32.2%	11.3%	1.8%	0.5%
Huntovillo	Craft Workers (Skilled)	10.8%	6.0%	82.0%	9.3%	0.4%	2.2%
Huntsville-	Laborers & Helpers (Unskilled)	12.6%	9.9%	75.0%	12.3%	0.1%	2.7%
	All On-Site Construction Occupations	11.2%	6.9%	80.4%	10.0%	0.3%	2.3%
Islah a Ealla	Craft Workers (Skilled)	8.5%	11.1%	86.1%	0.0%	0.3%	2.4%
Idano Falis-	Laborers & Helpers (Unskilled)	12.8%	19.2%	77.5%	0.0%	0.2%	3.1%
	All On-Site Construction Occupations	9.6%	13.2%	83.8%	0.0%	0.3%	2.6%
	Craft Workers (Skilled)	10.7%	5.2%	86.8%	6.4%	0.7%	0.7%
-	Laborers & Helpers (Unskilled)	13.0%	7.1%	83.1%	8.0%	0.9%	0.6%
	All On-Site Construction Occupations	11.2%	5.7%	85.9%	6.8%	0.7%	0.7%
	Craft Workers (Skilled)	6.4%	9.2%	71.2%	17.2%	1.3%	0.9%
	Laborers & Helpers (Unskilled)	8.9%	11.8%	63.0%	22.1%	1.5%	1.1%
	All On-Site Construction Occupations	6.9%	9.8%	69.3%	18.3%	1.4%	0.9%
	Craft Workers (Skilled)	8.0%	3.0%	58.9%	36.8%	0.4%	0.8%
Jackson-Yazoo	Laborers & Helpers (Unskilled)	10.1%	3.9%	49.5%	45.8%	0.4%	0.4%
City, MS	All On-Site Construction Occupations	8.5%	3.2%	40.0 <i>%</i>	38.9%	0.4%	0.7%
	Craft Workers (Skilled)	8.8%	1.6%	95.8%	1.8%	0.4%	0.6%
	Laborers & Helpers (Unskilled)	9.9%	3.5%	92.8%	2.8%	0.2%	0.6%
• •	All On-Site Construction Occupations	9.0%	2.0%	92.0 <i>%</i> 95.1%	2.0%	0.2%	0.6%
	Craft Workers (Skilled)	9.0%	2.0%	80.6%	15.3%	0.2 %	1.3%
	Laborers & Helpers (Unskilled)	9.0 <i>%</i> 16.6%	2.4 <i>%</i> 4.6%	71.4%	23.1%	0.3 %	0.7%
	All On-Site Construction Occupations	10.8%	4.0 <i>%</i> 2.9%	71.4 <i>%</i> 78.5%	23.1 <i>%</i> 17.1%	0.1%	1.2%
	Craft Workers (Skilled)		3.8%	85.5%	1.6%		
		10.4%				0.1%	8.8%
-	Laborers & Helpers (Unskilled)	11.9%	3.8%	85.2%	3.4%	0.1%	7.4%
	All On-Site Construction Occupations	10.7%	3.8%	85.4%	2.1%	0.1%	8.4%
-	Craft Workers (Skilled)	8.5%	8.2%	82.9%	6.4%	0.6%	1.7%
	Laborers & Helpers (Unskilled)	10.5%	11.8%	78.5%	7.5%	0.8%	1.1%
	All On-Site Construction Occupations	9.0%	9.1%	81.8%	6.7%	0.7%	1.6%
	Craft Workers (Skilled)	9.2%	9.6%	87.6%	0.7%	0.6%	1.5%
	Laborers & Helpers (Unskilled)	17.8%	19.5%	77.8%	0.6%	1.1%	0.9%
	All On-Site Construction Occupations	11.6%	12.4%	84.9%	0.7%	0.7%	1.3%
	Craft Workers (Skilled)	8.5%	31.8%	62.7%	1.6%	1.3%	2.6%
	Laborers & Helpers (Unskilled)	9.9%	30.4%	62.3%	1.1%	1.4%	4.7%
	All On-Site Construction Occupations	8.8%	31.5%	62.6%	1.5%	1.3%	3.0%
	Craft Workers (Skilled)	7.3%	25.4%	62.1%	10.2%	0.7%	1.5%
	· · · · ·						
	Laborers & Helpers (Unskilled)	10.8%	32.5%	52.8%	12.6%	1.1%	0.9%

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Economic Area	Occupation		Hispanics	Whites	Af. Ams.	Asians	AINH
Knoxville-	Craft Workers (Skilled)	8.9%	3.4%	91.7%	3.4%	0.4%	0.8%
Sevierville-La	Laborers & Helpers (Unskilled)	11.4%	4.6%	90.9%	3.1%	0.1%	0.6%
Follette, TN	All On-Site Construction Occupations	9.5%	3.7%	91.5%	3.4%	0.3%	0.8%
	Craft Workers (Skilled)	10.4%	1.2%	96.3%	0.8%	1.2%	0.3%
La Crosse, WI-MN	Laborers & Helpers (Unskilled)	13.1%	1.1%	96.0%	1.2%	1.3%	0.3%
	All On-Site Construction Occupations	11.0%	1.2%	96.2%	0.9%	1.2%	0.3%
L of a vetta	Craft Workers (Skilled)	5.3%	2.8%	70.7%	23.8%	1.4%	0.7%
Lafayette-	Laborers & Helpers (Unskilled)	6.8%	4.3%	60.3%	31.2%	2.9%	1.0%
Acadiana, LA	All On-Site Construction Occupations	5.6%	3.1%	68.4%	25.4%	1.8%	0.7%
Lake Charles-	Craft Workers (Skilled)	5.6%	4.2%	79.5%	14.8%	0.0%	0.8%
	Laborers & Helpers (Unskilled)	10.2%	2.4%	70.7%	25.8%	0.0%	0.8%
Jennings, LA	All On-Site Construction Occupations	6.6%	3.8%	77.5%	17.3%	0.0%	0.8%
Las Vegas-	Craft Workers (Skilled)	6.3%	38.5%	53.5%	3.8%	1.9%	2.0%
Paradise-	Laborers & Helpers (Unskilled)	8.9%	47.6%	43.8%	5.0%	1.8%	1.4%
Pahrump, NV	All On-Site Construction Occupations	6.9%	40.7%	51.2%	4.1%	1.8%	1.8%
	Craft Workers (Skilled)	9.9%	7.4%	87.3%	0.9%	0.8%	3.5%
Lewiston, ID-WA	Laborers & Helpers (Unskilled)	11.1%	4.8%	88.2%	1.6%	1.5%	3.6%
	All On-Site Construction Occupations	10.2%	6.7%	87.5%	1.1%	1.0%	3.5%
Lexington-Fayette-	Craft Workers (Skilled)	8.0%	2.8%	92.3%	4.2%	0.4%	0.3%
Frankfort	Laborers & Helpers (Unskilled)	9.0%	3.2%	92.8%	3.6%	0.0%	0.4%
Richmond, KY	All On-Site Construction Occupations	8.2%	2.9%	92.4%	4.0%	0.3%	0.3%
	Craft Workers (Skilled)	8.5%	7.1%	86.9%	1.1%	3.1%	1.6%
Lincoln, NE	Laborers & Helpers (Unskilled)	10.4%	9.4%	82.8%	1.2%	4.6%	1.7%
	All On-Site Construction Occupations	9.0%	7.7%	85.7%	1.1%	3.5%	1.6%
Little Rock-North	Craft Workers (Skilled)	9.1%	5.4%	78.3%	14.7%	0.5%	1.1%
Little Rock-Pine	Laborers & Helpers (Unskilled)	11.2%	9.1%	71.5%	17.7%	0.3%	1.4%
Bluff, AR	All On-Site Construction Occupations	9.5%	6.1%	76.9%	15.3%	0.4%	1.2%
Los Angeles-Long	Craft Workers (Skilled)	7.6%	62.8%	26.9%	3.7%	5.1%	0.9%
Beach-Riverside,	Laborers & Helpers (Unskilled)	7.9%	69.6%	21.0%	4.0%	3.8%	1.0%
CA	All On-Site Construction Occupations	7.7%	65.0%	25.1%	3.8%	4.7%	1.0%
Louisville-	Craft Workers (Skilled)	10.6%	2.9%	89.7%	6.3%	0.5%	0.4%
Elizabethtown-	Laborers & Helpers (Unskilled)	13.8%	3.9%	86.2%	8.8%	0.4%	0.5%
Scottsburg, KY-IN	All On-Site Construction Occupations	11.4%	3.1%	88.9%	6.9%	0.5%	0.4%
Lubbock-	Craft Workers (Skilled)	6.3%	45.8%	50.1%	2.4%	0.3%	1.2%
Levelland, TX	Laborers & Helpers (Unskilled)	7.5%	47.8%	45.4%	5.8%	0.1%	0.9%
	All On-Site Construction Occupations	6.6%	46.3%	48.9%	3.3%	0.2%	1.1%
Macon-Warner	Craft Workers (Skilled)	9.1%	5.7%	64.2%	29.1%	0.3%	0.6%
Robins-Fort	Laborers & Helpers (Unskilled)	12.1%	7.8%	52.1%	39.4%	0.5%	0.1%
Valley, GA	All On-Site Construction Occupations	9.7%	6.1%	61.6%	31.4%	0.4%	0.5%
Madison-Baraboo,	Craft Workers (Skilled)	9.7%	2.6%	94.7%	0.9%	0.7%	1.0%
WI	Laborers & Helpers (Unskilled)	14.3%	2.9%	93.6%	1.8%	0.4%	1.1%
	All On-Site Construction Occupations	10.9%	2.7%	94.5%	1.1%	0.6%	1.0%
	Craft Workers (Skilled)	8.7%	1.2%	93.9%	0.4%	0.7%	3.6%
Marinette, WI-MI	Laborers & Helpers (Unskilled)	12.8%	0.9%	92.0%	0.8%	1.3%	5.0%
	All On-Site Construction Occupations	9.4%	1.1%	93.6%	0.5%	0.8%	3.9%
	Craft Workers (Skilled)	12.5%	0.7%	98.4%	0.3%	0.5%	0.0%
Mason City, IA	Laborers & Helpers (Unskilled)	21.2%	0.8%	98.9%	0.1%	0.1%	0.1%
	All On-Site Construction Occupations	14.7%	0.7%	98.5%	0.3%	0.4%	0.1%
McAllen-Edinburg-	Craft Workers (Skilled)	3.3%	94.0%	5.2%	0.3%	0.0%	0.3%
Pharr, TX	Laborers & Helpers (Unskilled)	5.6%	95.0%	3.9%	0.2%	0.2%	0.5%
	All On-Site Construction Occupations	4.0%	94.3%	4.8%	0.3%	0.1%	0.4%
			E 00/	C4 70/	20 00/	0 50/	0.7%
Memphie TNI_MQ	Craft Workers (Skilled)	11.5%	5.9%	61.7%	30.9%	0.5%	
Memphis, TN-MS- AR	Craft Workers (Skilled) Laborers & Helpers (Unskilled)	11.5% 16.4%	5.9% 9.3%	50.3%	30.9% 39.1%	0.5% 0.3%	0.7%

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(a) Economic Area	(b) Occupation	(c) Women	^(d) Hispanics	(e) Whites	(f) Af. Ams.	(g) Asians	(h) AINH
Miami-Fort	Craft Workers (Skilled)	5.9%	50.0%	31.9%	16.3%	0.8%	0.4%
Lauderdale-Miami		5.9% 7.1%	50.0% 53.2%	26.3%		0.8%	0.4%
	Laborers & Helpers (Unskilled)	6.3%			18.8%		
Beach, FL	All On-Site Construction Occupations	4.2%	51.0%	30.2%	17.0%	0.8%	0.4% 1.7%
Midland-Odessa,	Craft Workers (Skilled)		51.6%	43.9%	2.2%	0.5%	
ТХ	Laborers & Helpers (Unskilled)	5.2%	58.8%	36.7%	2.3%	0.5%	1.6%
	All On-Site Construction Occupations	4.5%	53.7%	41.8%	2.2%	0.5%	1.7%
Milwaukee-Racine-	Craft Workers (Skilled)	9.9%	7.9%	83.7%	6.4%	1.0%	0.9%
Waukesha, WI	Laborers & Helpers (Unskilled)	12.1%	10.3%	79.2%	8.6%	0.7%	1.1%
Minneenelie Ct	All On-Site Construction Occupations	10.4%	8.4%	82.7%	6.8%	0.9%	0.9%
Minneapolis-St.	Craft Workers (Skilled)	9.6%	3.9%	90.2%	2.3%	2.2%	1.2%
Paul-St. Cloud,	Laborers & Helpers (Unskilled)	12.0%	5.3%	88.2%	3.0%	1.9%	1.3%
MN-WI	All On-Site Construction Occupations	10.1%	4.2%	89.7%	2.5%	2.1%	1.3%
	Craft Workers (Skilled)	8.4%	1.0%	89.8%	0.2%	0.1%	8.7%
Minot, ND	Laborers & Helpers (Unskilled)	10.5%	0.8%	87.3%	0.5%	0.0%	11.4%
	All On-Site Construction Occupations	8.9%	1.0%	89.2%	0.3%	0.1%	9.3%
	Craft Workers (Skilled)	9.2%	1.8%	94.8%	0.1%	0.4%	2.8%
Missoula, MT	Laborers & Helpers (Unskilled)	8.0%	0.7%	93.7%	0.0%	1.1%	4.5%
	All On-Site Construction Occupations	8.9%	1.5%	94.6%	0.0%	0.6%	3.2%
Mobile-Daphne-	Craft Workers (Skilled)	9.6%	3.0%	65.4%	28.4%	1.2%	1.8%
Fairhope, AL	Laborers & Helpers (Unskilled)	12.7%	4.6%	54.3%	38.1%	0.8%	2.1%
	All On-Site Construction Occupations	10.3%	3.3%	62.9%	30.6%	1.1%	1.8%
Monroe-Bastrop,	Craft Workers (Skilled)	5.2%	3.2%	69.0%	25.7%	0.4%	1.6%
LA	Laborers & Helpers (Unskilled)	6.4%	2.5%	58.8%	36.8%	0.1%	1.8%
	All On-Site Construction Occupations	5.5%	3.0%	66.2%	28.7%	0.4%	1.7%
Montgomery-	Craft Workers (Skilled)	11.0%	3.0%	58.1%	37.5%	0.3%	1.0%
Alexander City, AL	Laborers & Helpers (Unskilled)	10.6%	4.4%	50.6%	44.1%	0.3%	0.3%
	All On-Site Construction Occupations	10.9%	3.4%	56.2%	39.2%	0.3%	0.8%
Myrtle Beach-	Craft Workers (Skilled)	8.6%	7.9%	65.2%	24.7%	0.3%	1.4%
Conway-	Laborers & Helpers (Unskilled)	11.4%	9.6%	57.7%	30.5%	0.4%	1.6%
Georgetown, SC	All On-Site Construction Occupations	9.3%	8.3%	63.3%	26.2%	0.3%	1.4%
Nashville-	Craft Workers (Skilled)	10.4%	8.9%	81.0%	8.1%	0.8%	1.1%
Davidson	Laborers & Helpers (Unskilled)	12.7%	11.3%	76.8%	10.2%	0.5%	1.1%
Murfreesboro	All On-Site Construction Occupations	11.0%	9.5%	80.0%	8.6%	0.7%	1.1%
New Orleans-	Craft Workers (Skilled)	6.0%	9.7%	62.7%	24.6%	1.3%	0.9%
Metairie-Bogalusa,	Laborers & Helpers (Unskilled)	7.9%	12.8%	54.4%	28.5%	1.9%	1.3%
LA	All On-Site Construction Occupations	6.5%	10.6%	60.4%	25.7%	1.4%	1.0%
New York-Newark-	Craft Workers (Skilled)	5.7%	28.2%	53.9%	12.5%	3.9%	0.4%
Bridgeport, NY-NJ-	Laborers & Helpers (Unskilled)	7.0%	36.1%	44.6%	13.6%	4.0%	0.3%
CT-PA	All On-Site Construction Occupations	6.0%	30.4%	51.3%	12.8%	3.9%	0.4%
	Craft Workers (Skilled)	7.1%	15.9%	70.3%	4.5%	1.2%	7.6%
Oklahoma City-	Laborers & Helpers (Unskilled)	8.8%	20.2%	64.9%	5.1%	1.1%	8.2%
Shawnee, OK	All On-Site Construction Occupations	7.5%	16.8%	69.1%	4.6%	1.2%	7.8%
Omaha-Council	Craft Workers (Skilled)	7.7%	6.8%	89.2%	1.9%	0.6%	1.1%
Bluffs-Fremont,	Laborers & Helpers (Unskilled)	11.0%	10.0%	84.2%	3.2%	1.0%	1.1%
NE-IA	All On-Site Construction Occupations	8.5%	7.5%	88.0%	2.2%	0.7%	1.1%
	Craft Workers (Skilled)	7.3%	25.2%	61.4%	10.8%	1.0%	0.8%
Orlando-The	Laborers & Helpers (Unskilled)	8.5%	29.5%	54.4%	13.1%	1.0%	1.0%
Villages, FL	All On-Site Construction Occupations	7.7%	26.4%	59.5%	11.4%	1.0%	0.8%
	Craft Workers (Skilled)	8.3%	1.3%	92.7%	5.2%	0.4%	0.3%
Paducah, KY-IL	Laborers & Helpers (Unskilled)	8.8%	1.3%	92.7 % 91.8%	5.2 <i>%</i> 6.2%	0.4%	0.3%
	All On-Site Construction Occupations	8.4%	1.4%	91.8 <i>%</i> 92.5%	5.4%	0.4%	0.0%
	Craft Workers (Skilled)	5.9%	4.9%	92.5 % 80.1%	11.2%	0.4%	1.9%
Panama City-Lynn	Laborers & Helpers (Unskilled)	5.9 <i>%</i> 8.9%	4.9%	76.3%	16.3%	0.9%	1.9%
Haven, FL	All On-Site Construction Occupations	6.5%	4.1%	70.3% 79.3%	10.3%	0.3 <i>%</i> 0.7%	1.8%
	All On-Site Construction Occupations	0.3%	4.1 /0	13.370	12.370	0.170	1.0 /0

(0)			(d)	(0)	(f)	(a)	(b)
(a) Economic Area	(b) Occupation	(c) Women	(d) Hispanics	(e) Whites	(f) Af. Ams.	(g) Asians	(h) AINH
	Craft Workers (Skilled)	10.9%	16.4%	80.3%	0.5%	0.2%	2.4%
Pendleton- Hermiston, OR	Laborers & Helpers (Unskilled)	10.9%	20.9%	77.2%	0.0%	0.2 %	2.4 <i>%</i> 1.4%
	All On-Site Construction Occupations	10.1%	20.9 <i>%</i> 17.5%	79.5%	0.0%	0.0%	2.2%
	Craft Workers (Skilled)	7.3%	5.5%	79.5%	11.9%	2.0%	1.6%
Pensacola-Ferry Pass-Brent, FL		10.2%	5.5% 10.1%				
	Laborers & Helpers (Unskilled)			68.1%	16.0%	1.9%	2.0%
	All On-Site Construction Occupations	8.0%	6.7%	75.5%	12.9%	2.0%	1.7%
Deerie Center II	Craft Workers (Skilled)	9.2%	2.3%	94.2%	2.4%	0.4%	0.5%
Peoria-Canton, IL	Laborers & Helpers (Unskilled)	12.3%	4.0%	90.6%	4.6%	0.5%	0.3%
Dhile de la hie	All On-Site Construction Occupations	10.0%	2.8%	93.3%	3.0%	0.4%	0.5%
Philadelphia-	Craft Workers (Skilled)	6.5%	9.1%	75.0%	12.8%	2.2%	0.4%
	Laborers & Helpers (Unskilled)	8.9%	12.5%	68.0%	16.5%	2.0%	0.4%
PA-NJ-DE-MD	All On-Site Construction Occupations	7.0%	9.9%	73.4%	13.6%	2.2%	0.4%
Phoenix-Mesa-	Craft Workers (Skilled)	6.2%	48.3%	42.9%	2.2%	1.1%	5.0%
Scottsdale, AZ	Laborers & Helpers (Unskilled)	6.6%	57.4%	33.4%	2.3%	0.7%	5.8%
	All On-Site Construction Occupations	6.3%	50.7%	40.4%	2.3%	1.0%	5.2%
Pittsburgh-New	Craft Workers (Skilled)	5.8%	0.5%	94.6%	3.9%	0.3%	0.4%
Castle, PA	Laborers & Helpers (Unskilled)	9.0%	0.5%	94.7%	3.8%	0.5%	0.4%
-	All On-Site Construction Occupations	6.5%	0.5%	94.6%	3.8%	0.4%	0.4%
Portland-Lewiston-	Craft Workers (Skilled)	6.3%	0.5%	96.5%	1.0%	0.4%	1.5%
South Portland,	Laborers & Helpers (Unskilled)	12.5%	0.4%	95.4%	1.4%	0.7%	2.0%
ME	All On-Site Construction Occupations	7.3%	0.4%	96.3%	1.0%	0.5%	1.6%
Portland-	Craft Workers (Skilled)	8.3%	16.9%	76.1%	1.9%	2.7%	2.0%
Vancouver-	Laborers & Helpers (Unskilled)	9.9%	21.3%	71.7%	2.6%	2.2%	1.8%
Beaverton, OR-	All On-Site Construction Occupations	8.7%	17.9%	75.1%	2.0%	2.6%	2.0%
	Craft Workers (Skilled)	8.0%	33.0%	62.9%	1.9%	0.1%	1.7%
Pueblo, CO	Laborers & Helpers (Unskilled)	10.0%	43.7%	51.3%	2.5%	0.0%	1.6%
	All On-Site Construction Occupations	8.6%	36.0%	59.6%	2.0%	0.1%	1.7%
Doloigh Durham	Craft Workers (Skilled)	8.4%	17.5%	53.3%	24.8%	0.7%	3.2%
Raleigh-Durham-	Laborers & Helpers (Unskilled)	9.7%	22.8%	41.9%	30.7%	0.6%	3.7%
Cary, NC	All On-Site Construction Occupations	8.7%	18.7%	50.7%	26.1%	0.7%	3.3%
	Craft Workers (Skilled)	6.9%	6.4%	84.2%	1.8%	0.3%	7.0%
Rapid City, SD	Laborers & Helpers (Unskilled)	11.8%	11.3%	74.9%	0.5%	0.8%	11.5%
	All On-Site Construction Occupations	8.0%	7.5%	82.1%	1.5%	0.4%	7.9%
	Craft Workers (Skilled)	7.8%	16.3%	77.2%	0.6%	1.2%	4.3%
Redding, CA	Laborers & Helpers (Unskilled)	10.8%	17.8%	77.1%	0.3%	0.6%	4.2%
	All On-Site Construction Occupations	8.5%	16.7%	77.2%	0.5%	1.0%	4.3%
	Craft Workers (Skilled)	9.0%	22.0%	72.6%	0.7%	1.0%	3.4%
Reno-Sparks, NV	Laborers & Helpers (Unskilled)	13.9%	27.8%	65.9%	0.6%	1.5%	3.8%
•	All On-Site Construction Occupations	10.1%	23.3%	71.1%	0.7%	1.2%	3.5%
	Craft Workers (Skilled)	6.8%	6.9%	69.0%	22.3%	1.0%	0.4%
Richmond, VA	Laborers & Helpers (Unskilled)	9.9%	9.6%	60.5%	27.9%	0.8%	0.7%
,	All On-Site Construction Occupations	7.6%	7.6%	67.0%	23.6%	1.0%	0.5%
	Craft Workers (Skilled)	8.7%	2.3%	85.4%	11.3%	0.4%	0.3%
Roanoke, VA	Laborers & Helpers (Unskilled)	11.9%	4.3%	79.3%	15.9%	0.1%	0.3%
	All On-Site Construction Occupations	9.4%	2.7%	84.1%	12.3%	0.4%	0.3%
	Craft Workers (Skilled)	8.5%	3.6%	89.6%	4.7%	1.1%	0.9%
Rochester-Batavia- Seneca Falls, NY	Laborers & Helpers (Unskilled)	10.7%	5.2%	87.5%	5.3%	1.1%	0.9%
	All On-Site Construction Occupations	9.0%	4.0%	89.1%	4.8%	1.1%	0.9%
Sacramento	Craft Workers (Skilled)	9.0 <i>%</i> 6.5%	26.1%	62.2%	3.7%	5.1%	2.5%
Arden-Arcade	Laborers & Helpers (Unskilled)	0.5 <i>%</i> 9.5%	20.1 <i>%</i> 31.3%	55.1%	5.1%	5.1 <i>%</i> 5.4%	2.5%
Truckee, CA-NV	All On-Site Construction Occupations	9.3 <i>%</i> 7.3%	27.5%	60.3%	4.0%	5.4 <i>%</i> 5.1%	2.0%
	Craft Workers (Skilled)	6.7%	3.4%	93.1%	2.2%	0.7%	0.5%
Salina KS		11.8%	3.4% 3.9%	93.1% 92.5%	2.2%	0.7%	0.5% 0.7%
Salina, KS	Laborers & Helpers (Unskilled)						
<u> </u>	All On-Site Construction Occupations	7.8%	3.5%	93.0%	2.2%	0.8%	0.6%

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(a) Economic Area	(b) Occupation	(c) Women	(d) Hispanics	(e) Whites	(f) Af. Ams.	(g) Asians	(h) AINH
Salt Lake City-	Craft Workers (Skilled)	8.0%	19.3%	75.6%	1.0%	1.4%	2.5%
Ogden-Clearfield,	Laborers & Helpers (Unskilled)	8.3%	27.2%	67.0%	1.8%	1.2%	2.6%
UT	All On-Site Construction Occupations	8.1%	21.3%	73.4%	1.2%	1.4%	2.6%
	Craft Workers (Skilled)	5.0%	44.3%	52.1%	2.7%	0.3%	0.2%
San Angelo, TX	Laborers & Helpers (Unskilled)	4.9%	44.5%	52.5%	2.6%	0.2%	0.2%
	All On-Site Construction Occupations	4.9 <i>%</i> 5.0%	44.3%	52.3 <i>%</i>	2.0%	0.2%	0.2%
	Craft Workers (Skilled)	5.8%	64.2%	30.0%	3.7%	1.2%	0.2 %
San Antonio, TX	Laborers & Helpers (Unskilled)	6.2%	70.1%	24.6%	3.5%	0.7%	0.6%
	All On-Site Construction Occupations	5.9%	65.8%	24.0 <i>%</i> 28.6%	3.6%	1.1%	0.6%
San Diego-	Craft Workers (Skilled)	7.5%	44.4%	42.1%	4.2%	7.3%	1.7%
Carlsbad-San	Laborers & Helpers (Unskilled)	8.0%	52.2%	37.3%	4.2 <i>%</i> 3.9%	4.6%	1.6%
Marcos, CA							
	All On-Site Construction Occupations	7.6%	46.6%	40.7%	4.1%	6.5%	1.7%
San Jose-San	Craft Workers (Skilled)	7.7%	41.6%	41.0%	4.2%	10.7%	1.7%
Francisco-	Laborers & Helpers (Unskilled)	8.1%	49.3%	35.4%	5.5%	7.1%	2.0%
Oakland, CA	All On-Site Construction Occupations	7.8%	43.8%	39.4%	4.6%	9.6%	1.8%
Santa Fe-	Craft Workers (Skilled)	7.2%	67.2%	27.1%	1.2%	0.1%	4.2%
Espanola, NM	Laborers & Helpers (Unskilled)	10.6%	67.7%	25.1%	2.2%	0.3%	4.4%
	All On-Site Construction Occupations	8.4%	67.4%	26.4%	1.6%	0.2%	4.3%
Sarasota-	Craft Workers (Skilled)	6.5%	34.4%	58.6%	5.9%	0.6%	0.3%
Bradenton-Venice,		9.3%	42.3%	51.0%	5.3%	0.6%	0.2%
FL	All On-Site Construction Occupations	7.3%	36.5%	56.6%	5.8%	0.6%	0.3%
Savannah-	Craft Workers (Skilled)	8.1%	9.4%	57.4%	31.4%	0.8%	0.5%
Hinesville-Fort	Laborers & Helpers (Unskilled)	10.7%	14.1%	49.4%	35.1%	0.6%	0.1%
Stewart, GA	All On-Site Construction Occupations	8.8%	10.6%	55.4%	32.3%	0.7%	0.4%
	Craft Workers (Skilled)	7.5%	7.7%	90.7%	0.4%	0.1%	1.2%
Scotts Bluff, NE	Laborers & Helpers (Unskilled)	14.1%	12.5%	84.9%	0.0%	0.0%	2.5%
	All On-Site Construction Occupations	8.8%	8.7%	89.5%	0.3%	0.0%	1.4%
ScrantonWilkes-	Craft Workers (Skilled)	6.5%	3.0%	95.3%	0.7%	0.6%	0.2%
Barre, PA	Laborers & Helpers (Unskilled)	11.4%	3.6%	93.9%	1.5%	0.4%	0.1%
Ballo, I X	All On-Site Construction Occupations	7.5%	3.2%	95.0%	0.9%	0.5%	0.2%
Seattle-Tacoma-	Craft Workers (Skilled)	8.3%	12.0%	75.0%	3.7%	5.8%	3.1%
Olympia, WA	Laborers & Helpers (Unskilled)	11.3%	15.9%	67.7%	4.8%	6.3%	4.7%
	All On-Site Construction Occupations	8.9%	12.7%	73.6%	3.9%	5.9%	3.4%
Shreveport-	Craft Workers (Skilled)	6.3%	3.0%	63.8%	31.2%	0.2%	1.5%
Bossier City-	Laborers & Helpers (Unskilled)	6.9%	3.9%	54.4%	40.0%	0.1%	1.6%
Minden, LA	All On-Site Construction Occupations	6.4%	3.1%	62.0%	32.9%	0.2%	1.5%
Sioux City-	Craft Workers (Skilled)	6.7%	7.4%	89.8%	0.9%	0.4%	1.3%
Vermillion, IA-NE-	Laborers & Helpers (Unskilled)	11.1%	12.7%	83.1%	0.9%	0.3%	3.0%
SD	All On-Site Construction Occupations	7.7%	8.7%	88.2%	0.9%	0.4%	1.7%
	Craft Workers (Skilled)	9.2%	3.8%	92.5%	0.2%	0.4%	2.9%
Sioux Falls, SD	Laborers & Helpers (Unskilled)	13.0%	6.7%	85.9%	0.9%	0.5%	6.1%
	All On-Site Construction Occupations	10.2%	4.6%	90.8%	0.4%	0.4%	3.7%
South Bend-	Craft Workers (Skilled)	12.4%	8.5%	86.5%	3.3%	0.4%	1.0%
	Laborers & Helpers (Unskilled)	14.6%	10.4%	84.2%	3.4%	0.4%	1.3%
Mishawaka, IN-MI	All On-Site Construction Occupations	13.0%	8.9%	86.0%	3.3%	0.4%	1.0%
Spokane, WA	Craft Workers (Skilled)	8.2%	8.1%	86.5%	0.9%	0.9%	3.3%
	Laborers & Helpers (Unskilled)	11.4%	8.5%	84.1%	1.5%	1.6%	4.1%
	All On-Site Construction Occupations	8.9%	8.2%	86.0%	1.1%	1.1%	3.5%
Springfield, IL	Craft Workers (Skilled)	8.2%	0.9%	95.5%	2.9%	0.1%	0.5%
	Laborers & Helpers (Unskilled)	8.9%	1.1%	93.7%	4.8%	0.0%	0.4%
	All On-Site Construction Occupations	8.4%	0.9%	95.1%	3.4%	0.1%	0.5%
	Craft Workers (Skilled)	8.6%	2.7%	93.8%	0.6%	0.2%	2.6%
Springfield, MO	Laborers & Helpers (Unskilled)	10.5%	4.2%	90.9%	0.5%	0.3%	3.9%
	All On-Site Construction Occupations	9.1%	3.1%	93.0%	0.6%	0.3%	3.0%
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(a) Economic Area	(b) Occupation	(c) Women	(d)	(e) Whites	(f) Af. Ams.	(g) Asians	(h) AINH
St. Louis-St.	Craft Workers (Skilled)	8.0%	Hispanics 2.0%	87.8%	8.8%	0.6%	0.7%
Charles-	Laborers & Helpers (Unskilled)	8.0 <i>%</i> 10.0%	2.0%	85.5%	0.0 <i>%</i> 10.9%	0.6%	0.7%
	All On-Site Construction Occupations	8.5%	2.1%	85.5 <i>%</i> 87.2%	9.3%	0.6%	0.8%
	Craft Workers (Skilled)	8.3%	0.6%	98.1%	0.9%	0.0%	0.7%
	Laborers & Helpers (Unskilled)	0.3 <i>%</i> 14.2%	1.0%	98.1% 98.2%	0.9%	0.1%	0.2%
State College, PA	All On-Site Construction Occupations	9.6%	0.7%	98.2 <i>%</i> 98.1%	0.3%	0.0%	0.1%
	Craft Workers (Skilled)	7.1%	2.1%	93.7%	2.2%	0.1%	1.0%
Syracuse-Auburn,	Laborers & Helpers (Unskilled)	8.6%	1.3%	93.7 % 92.1%	3.8%	0.8 <i>%</i> 1.1%	1.6%
NY	All On-Site Construction Occupations	7.5%	1.9%	92.1 <i>%</i> 93.3%	3.6% 2.6%	0.9%	1.2%
	Craft Workers (Skilled)	6.4%	8.3%	63.7%	26.5%	0.9%	0.9%
Tallahassee, FL	Laborers & Helpers (Unskilled)	10.1%	8.4%	55.9%	20.0 <i>%</i> 34.0%	0.6%	1.1%
	All On-Site Construction Occupations	7.4%	8.3%	61.5%	28.7%	0.6%	0.9%
Tampa-St.	Craft Workers (Skilled)	7.4%	22.3%	65.6%	9.2%	1.7%	0.9%
Petersburg-	Laborers & Helpers (Unskilled)	8.2%	22.3%	58.7%	9.2 <i>%</i> 11.1%	1.1%	0.9%
Clearwater, FL	All On-Site Construction Occupations	7.6%	23.8%	63.8%	9.7%	1.1%	0.8%
	Craft Workers (Skilled)	9.1%	5.4%	78.8%	9.8%	0.5%	5.4%
Texarkana, TX-	Laborers & Helpers (Unskilled)	13.0%	10.1%	70.2%	11.8%	0.3%	7.3%
Texarkana, AR	All On-Site Construction Occupations	10.0%	6.6%	76.7%	10.3%	0.4%	5.9%
	Craft Workers (Skilled)	11.6%	4.3%	89.2%	5.4%	0.5%	0.5%
Toledo-Fremont,	Laborers & Helpers (Unskilled)	15.6%	4.7%	87.0%	7.5%	0.0%	0.3%
ОН	All On-Site Construction Occupations	12.4%	4.4%	88.7%	5.9%	0.4%	0.4%
Topeka, KS	Craft Workers (Skilled)	8.1%	4.9%	91.5%	2.2%	0.3%	1.1%
	Laborers & Helpers (Unskilled)	15.0%	5.8%	89.6%	3.6%	0.2%	0.8%
	All On-Site Construction Occupations	9.5%	5.1%	91.1%	2.5%	0.2%	1.0%
	Craft Workers (Skilled)	9.7%	4.2%	93.5%	0.8%	0.3%	1.3%
Traverse City, MI	Laborers & Helpers (Unskilled)	12.8%	3.4%	94.9%	0.5%	0.0%	1.2%
	All On-Site Construction Occupations	10.6%	4.0%	93.9%	0.7%	0.1%	1.3%
	Craft Workers (Skilled)	7.7%	48.8%	43.2%	1.7%	1.6%	4.4%
Tucson, AZ	Laborers & Helpers (Unskilled)	8.3%	56.5%	35.8%	0.8%	0.6%	5.8%
	All On-Site Construction Occupations	7.9%	50.7%	41.5%	1.5%	1.3%	4.7%
	Craft Workers (Skilled)	7.6%	9.5%	71.1%	3.7%	1.0%	14.3%
Tulsa-Bartlesville,	Laborers & Helpers (Unskilled)	9.1%	14.7%	61.9%	6.0%	1.3%	16.1%
OK	All On-Site Construction Occupations	7.9%	10.7%	69.1%	4.2%	1.1%	14.7%
	Craft Workers (Skilled)	12.7%	2.6%	70.5%	26.1%	0.3%	0.5%
Tupelo, MS	Laborers & Helpers (Unskilled)	14.2%	3.9%	64.0%	31.3%	0.1%	0.6%
· • • • • • • • •	All On-Site Construction Occupations	13.1%	2.9%	69.0%	27.3%	0.2%	0.5%
	Craft Workers (Skilled)	7.7%	22.2%	75.7%	0.0%	0.7%	1.4%
Twin Falls, ID	Laborers & Helpers (Unskilled)	12.0%	19.8%	74.7%	0.0%	0.0%	5.5%
	All On-Site Construction Occupations	8.2%	22.0%	75.6%	0.0%	0.6%	1.8%
Virginia Beach-	Craft Workers (Skilled)	7.5%	4.9%	60.9%	31.5%	1.6%	0.9%
Norfolk-Newport	Laborers & Helpers (Unskilled)	10.6%	5.9%	54.3%	37.3%	1.4%	0.7%
News, VA-NC	All On-Site Construction Occupations	8.2%	5.1%	59.5%	32.7%	1.5%	0.8%
Washington-	Craft Workers (Skilled)	6.6%	18.0%	59.3%	18.8%	2.8%	0.6%
Baltimore-	Laborers & Helpers (Unskilled)	9.2%	25.0%	51.5%	20.5%	1.9%	0.6%
Northern Virginia,	All On-Site Construction Occupations	7.2%	19.6%	57.4%	19.2%	2.6%	0.6%
Waterloo-Cedar Falls, IA	Craft Workers (Skilled)	10.6%	1.0%	96.8%	1.8%	0.3%	0.1%
	Laborers & Helpers (Unskilled)	15.9%	1.5%	93.8%	4.5%	0.1%	0.1%
	All On-Site Construction Occupations	12.0%	1.1%	96.0%	2.5%	0.3%	0.1%
Wausau-Merrill, WI	Craft Workers (Skilled)	9.8%	0.8%	95.6%	0.3%	0.9%	2.3%
	Laborers & Helpers (Unskilled)	14.2%	0.9%	96.0%	0.1%	0.9%	2.0%
	All On-Site Construction Occupations	10.8%	0.8%	95.7%	0.3%	0.9%	2.2%
	Craft Workers (Skilled)	6.5%	21.1%	74.5%	0.0%	0.5%	3.7%
Wenatchee, WA	Laborers & Helpers (Unskilled)	7.9%	28.6%	66.7%	0.1%	0.1%	4.4%
	All On-Site Construction Occupations	6.8%	22.9%	72.7%	0.0%	0.4%	3.8%
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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Economic Area	Occupation	Women	Hispanics	Whites	Af. Ams.	Asians	AINH
Wichita Falls, TX	Craft Workers (Skilled)	7.0%	32.8%	63.4%	2.0%	0.5%	1.0%
	Laborers & Helpers (Unskilled)	7.2%	39.3%	55.0%	4.2%	0.4%	0.9%
	All On-Site Construction Occupations	7.1%	34.5%	61.2%	2.6%	0.5%	1.0%
Wichita-Winfield, KS	Craft Workers (Skilled)	10.0%	13.5%	77.8%	3.5%	2.3%	2.7%
	Laborers & Helpers (Unskilled)	13.0%	17.5%	73.3%	4.5%	2.3%	2.2%
	All On-Site Construction Occupations	10.6%	14.4%	76.8%	3.8%	2.3%	2.6%

APPENDIX TABLE H.2

Appendix Table H.2 is 180 pages long and for that reason is not included in printed copies of this report. Table 8.2 in Chapter 8 provides a sample page from the table. The complete table is available in EXCEL format on a separate CD.