Employment Outlook: 2010-20

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Overview

- Background information
- Population and labor force
- Economic and Industry growth
- Occupational growth

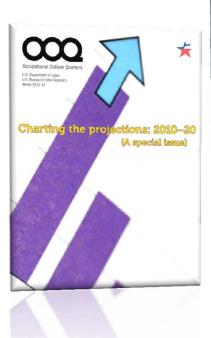
Employment Projections Background

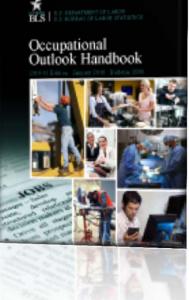
- 10-year projections made every 2 years
- 2010-20 projections cover over 700 occupations and 300 industries
- Projections are used to produce the Occupational Outlook Handbook—which has been published since 1949



Employment Projections Products

- Occupational Outlook Handbook
- Occupational Outlook Quarterly
- Long-term employment projections by industry and occupation
- Technical materials replacement rates, education and training categories, and more





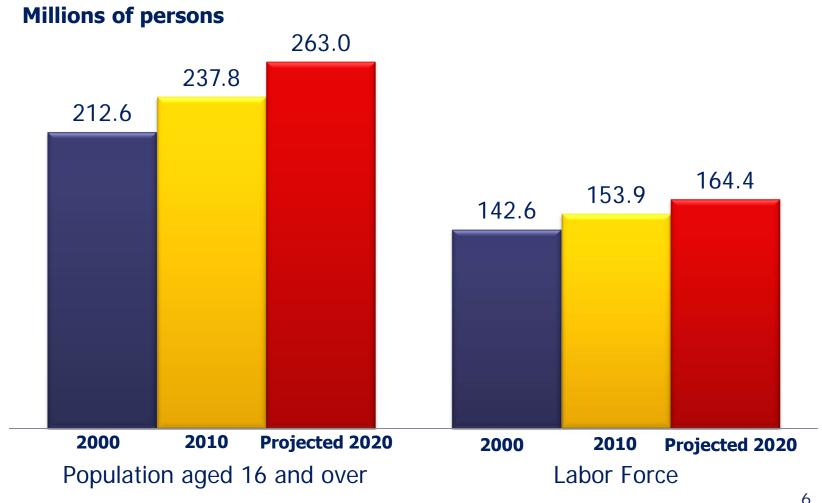


Employment Outlook: 2010-20

Population and Labor Force Growth



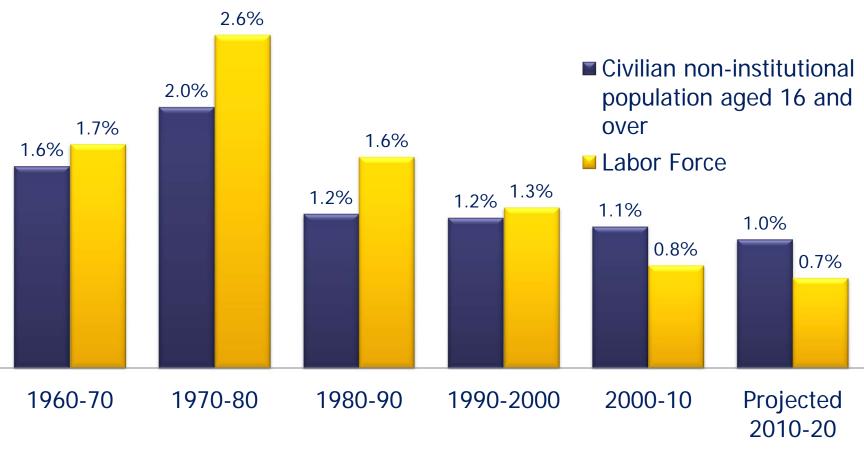
Population and Labor Force



Population Data Source: U.S. Census Bureau

Population Growth Rate

Annual rates of change

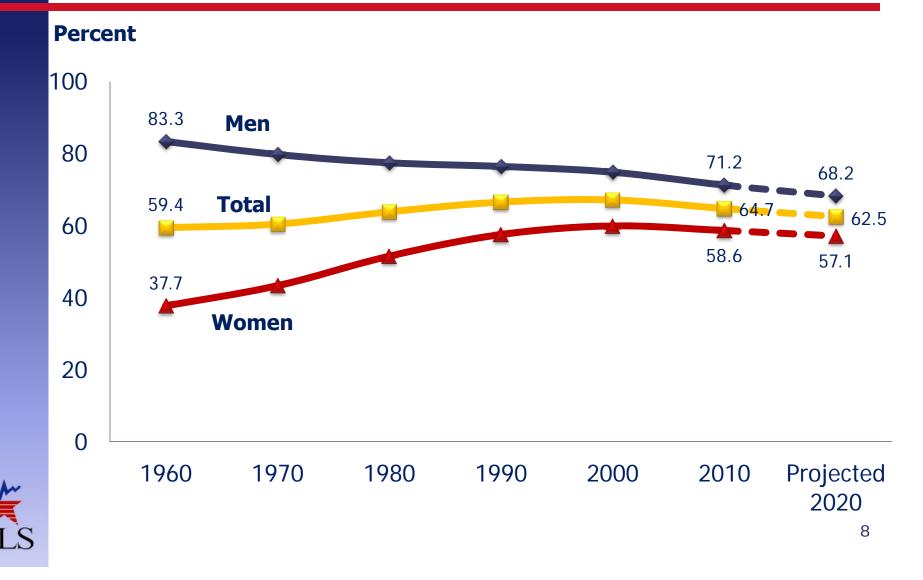




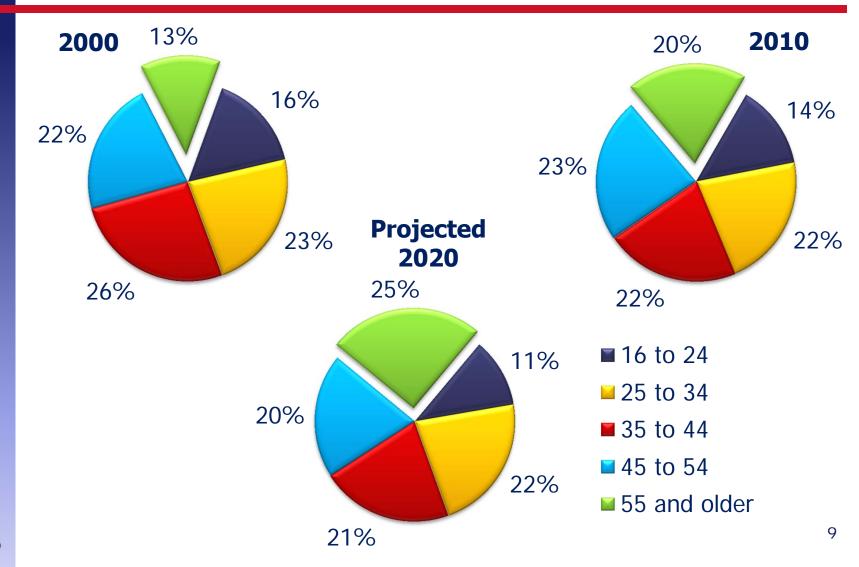
Population Data Source: U.S. Census Bureau

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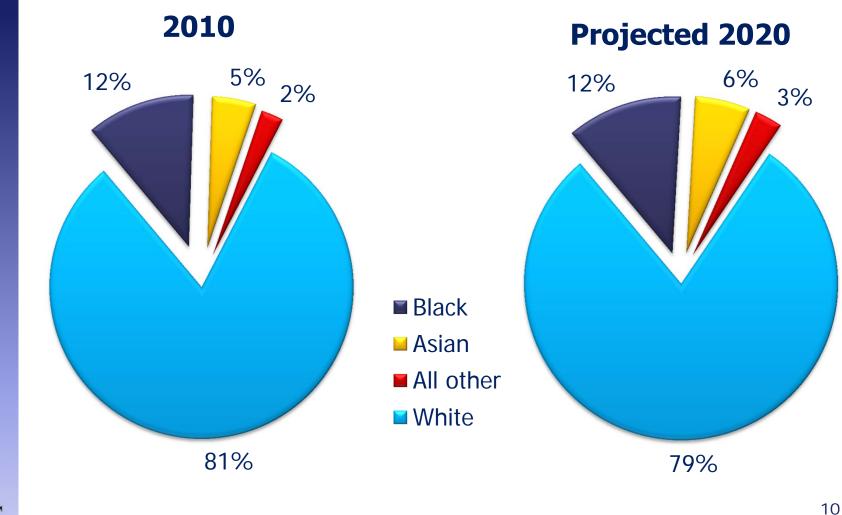
Labor Force Participation Rates



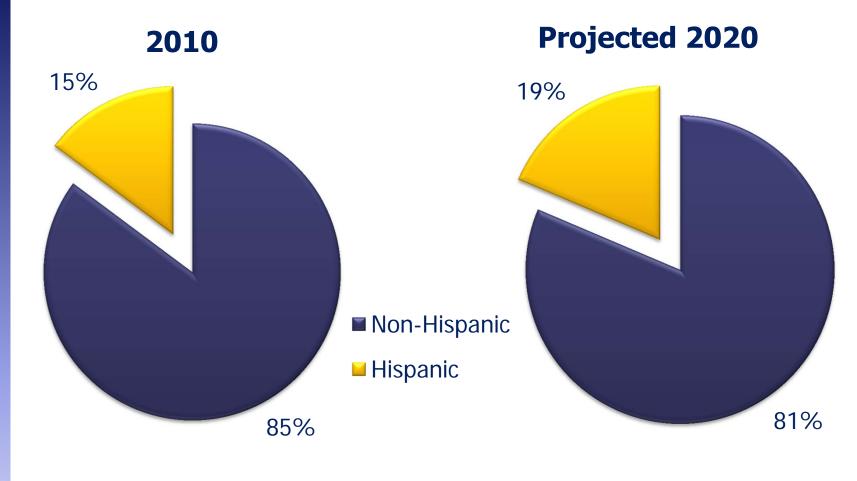
Labor Force Share by Age Group



Labor Force Share by Race



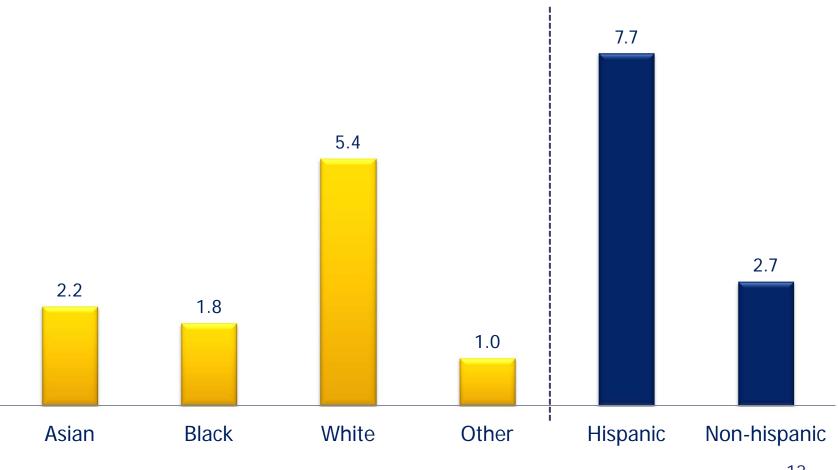
Labor Force Share by Ethnicity





Labor Force Growth by Race and Ethnicity

Change in millions, projected 2010-20





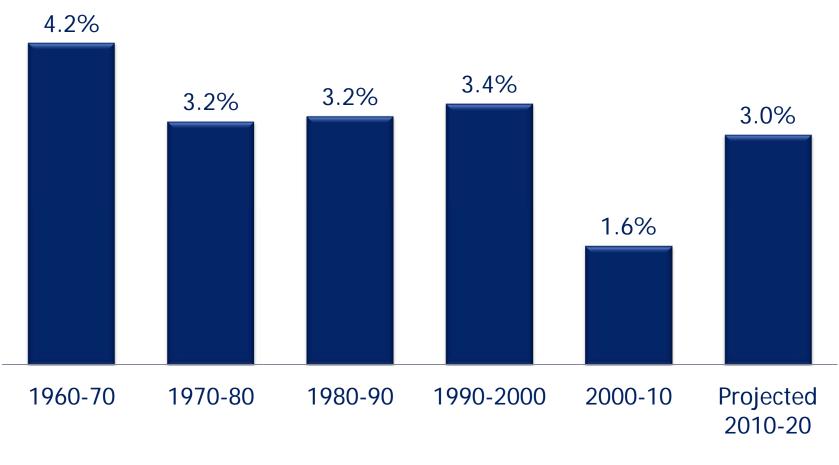
Employment Outlook: 2010-20

Economic and Industry Growth



Real Gross Domestic Product Growth

Annual rate of change

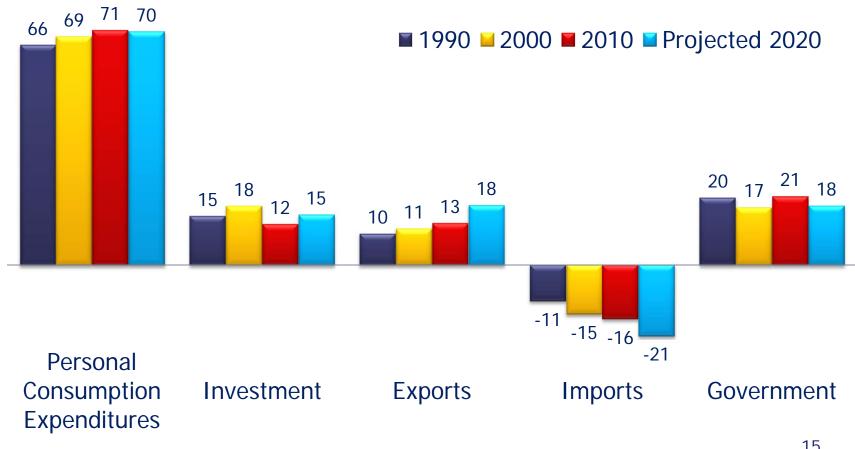




Historic Data Source: U.S. Bureau of Economic Analysis

Nominal GDP by Component

Percent of GDP



Historic Data Source: U.S. Bureau of Economic Analysis

Employment

All other employment

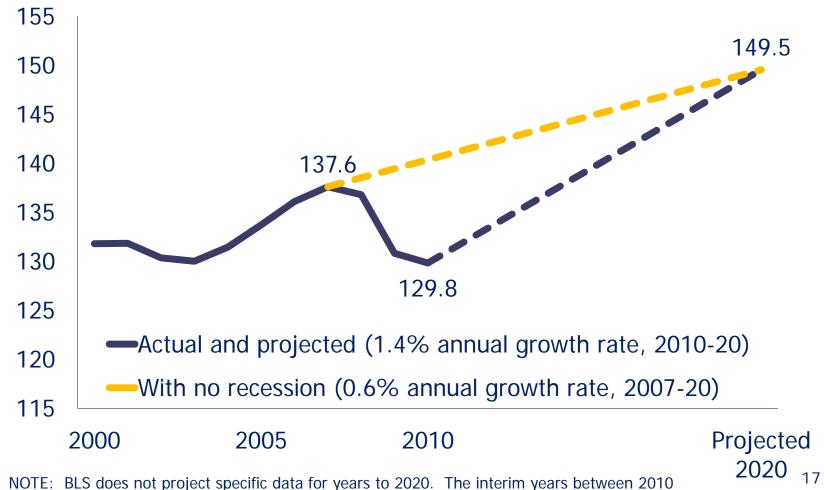
Nonagricultural wage and salary employment





Total Nonfarm Payroll Employment

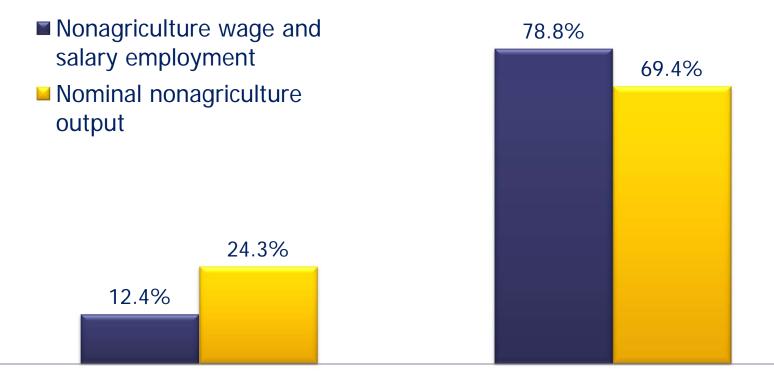
In millions



and the 2020 projection point are expressed by a straight dashed line only.

Employment and Output: 2010

Percent distribution



Goods producing

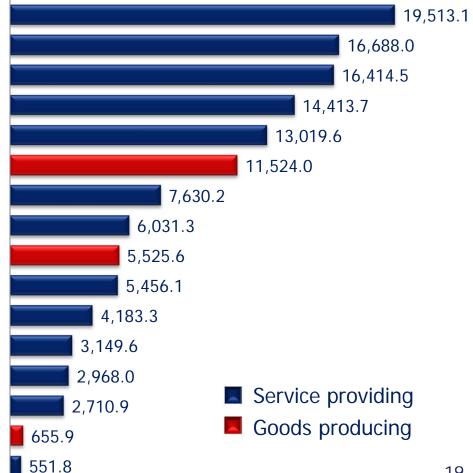
Service providing



Employment by Industry Sector: 2010

State and local government Professional and business services Health care and social assistance Retail trade Leisure and hospitality Manufacturing **Financial** activities Other services Construction Wholesale trade Transportation and warehousing **Educational services** Federal government Information Mining **Utilities**

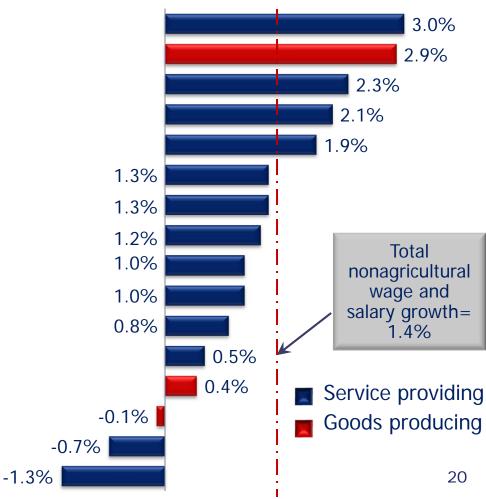
Thousands of wage and salary jobs





Percent Change in Employment by Industry Sector: Projected 2010-20

Annual rate of change for wage and salary employment



Health care and social assistance Construction **Educational services** Professional and business services Transportation and warehousing Wholesale trade Other services Retail trade **Financial** activities Leisure and hospitality State and local government Information Mining Manufacturing Utilities Federal government



Employment Change by Industry Sector: Projected 2010-20



Health care and social assistance Professional and business services State and local government Leisure and hospitality Transportation and warehousing Other services Educational services **Financial** activities Wholesale trade Manufacturing

Thousands of wage and salary jobs

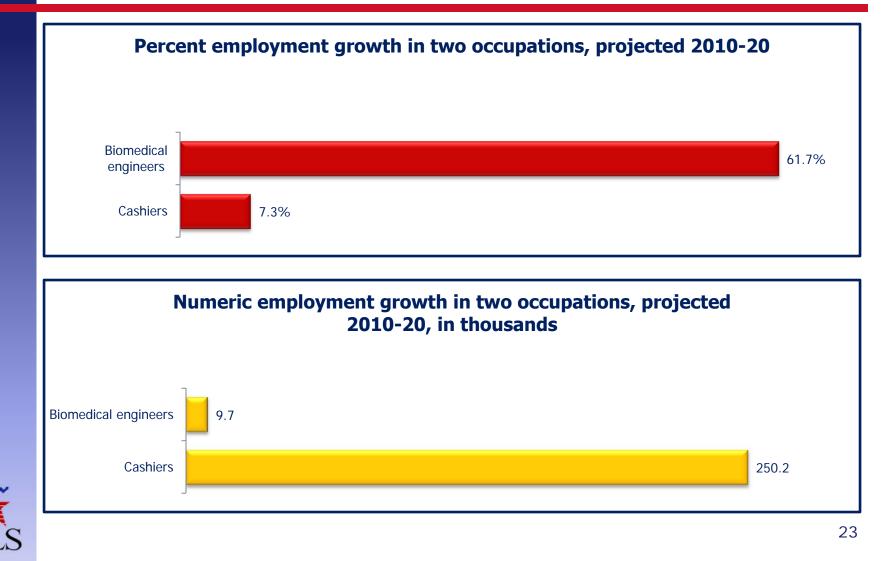


Employment Outlook: 2010-20

Occupational Growth



Percent Change vs. Numeric Change

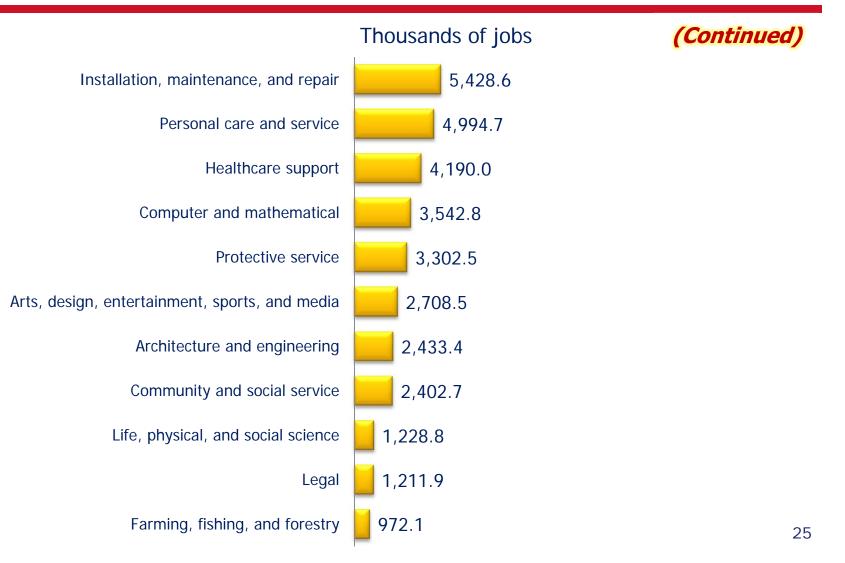


Employment by Major Occupational Group: 2010





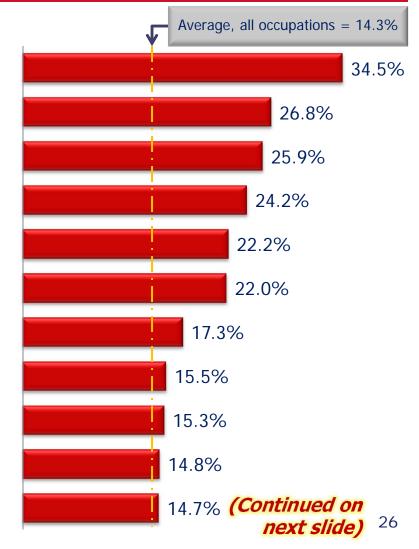
Employment by Major Occupational Group: 2010



Percent Change in Employment by Major Occupational Group

Projected 2010-20

Healthcare support Personal care and service Healthcare practitioners and technical Community and social service Construction and extraction Computer and mathematical Business and financial operations Life, physical, and social science Education, training, and library Transportation and material moving Installation, maintenance, and repair





Percent Change in Employment by Major Occupational Group



Employment Change by Major Occupational Group

Office and administrative support Healthcare practitioners and technical Sales and related Healthcare support Construction and extraction Education, training, and library Personal care and service Transportation and material moving Business and financial operations Food preparation and serving related Installation, maintenance, and repair

Thousands of jobs, projected 2010-20

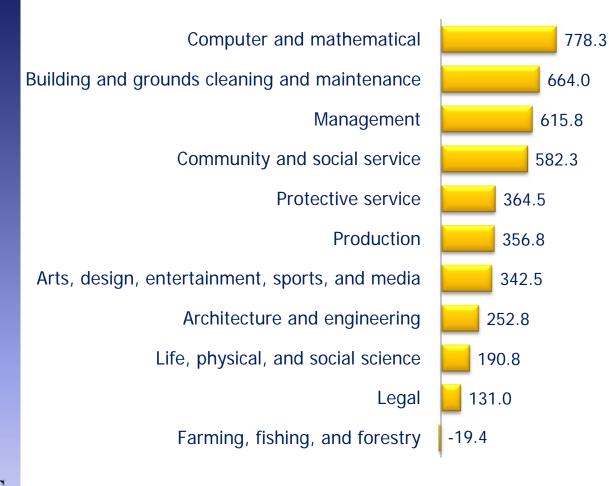




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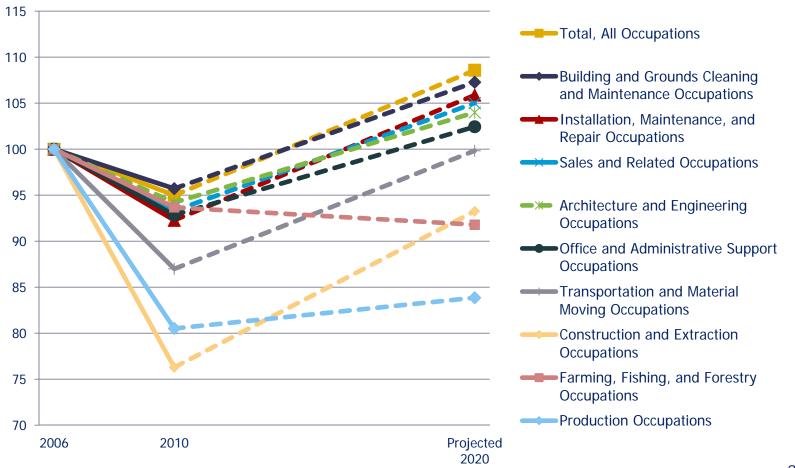
Employment Change by Major Occupational Group

Thousands of jobs, projected 2010-20 (Continued)



Employment Trends for Occupational Groups whose Employment Declined 2006-10

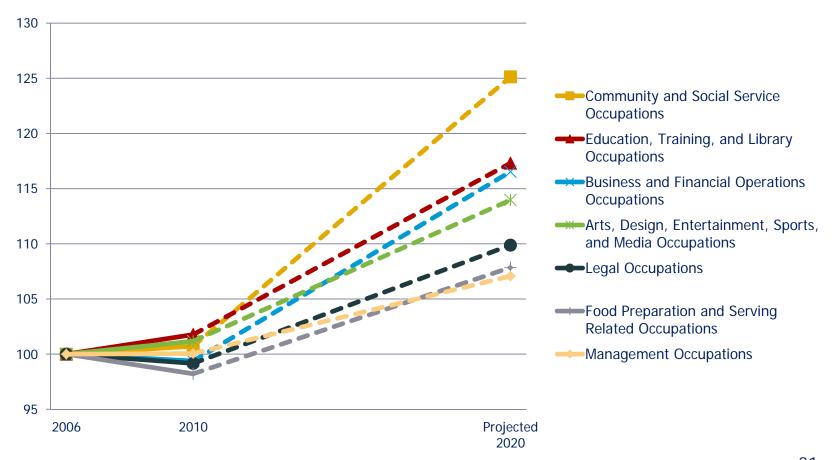




NOTE: BLS does not project specific data for years to 2020. The interim years between 2010 and the 2020 ³⁰ projection point are expressed by a straight dashed line only.

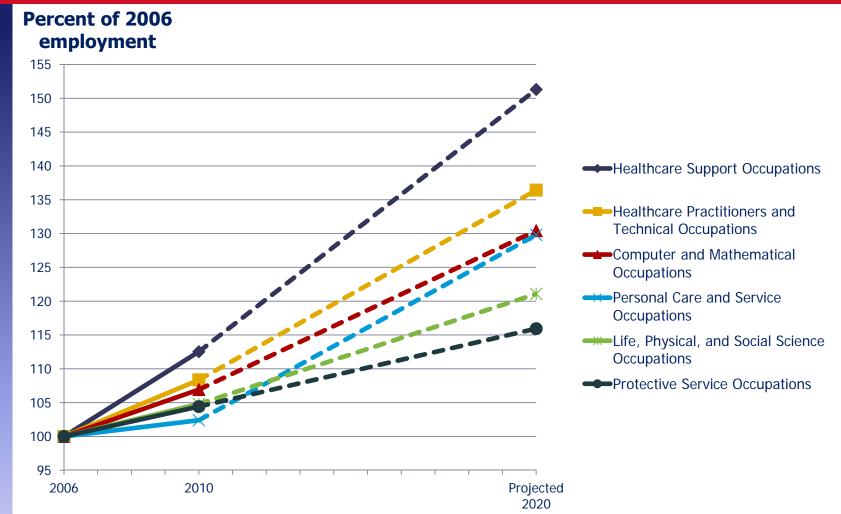
Employment Trends for Occupational Groups with Little Employment Change 2006-10

Percent of 2006 employment



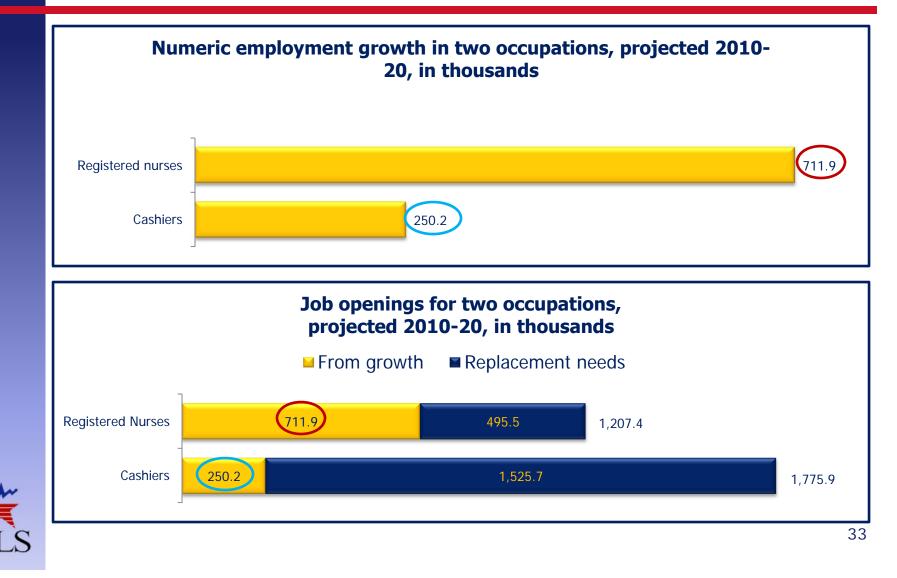
NOTE: BLS does not project specific data for years to 2020. The interim years between 2010 and the 2020 ³¹ projection point are expressed by a straight dashed line only.

Employment Trends for Occupational Groups whose Employment Increased 2006-10



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Employment Growth vs. Replacement Needs



Job Openings by Major Occupational Group



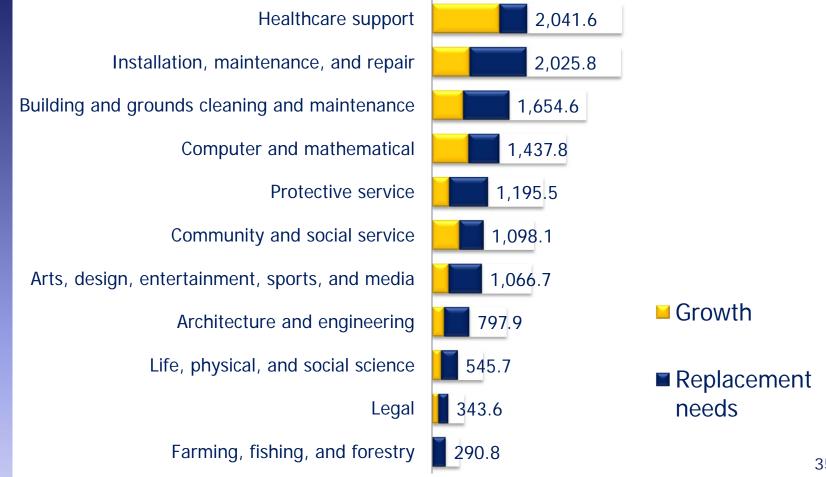
Thousands of job openings, projected 2010-20

Office and administrative support Sales and related Food preparation and serving related Transportation and material moving Healthcare practitioners and technical Education, training, and library Construction and extraction Personal care and service Business and financial operations



Job Openings by Major Occupational Group







Fastest Growing Occupations

Median annual Percent change, projected 2010-20 wages, May 2010		
Personal care aides	70.5%	\$19,640
Home health aides	69.4%	\$20,560
Biomedical engineers	61.7%	\$81,540
Helpersbrickmasons, blockmasons, stonemasons, and tile and marble setters	60.1%	\$27,780
Helperscarpenters	55.7%	\$25,760
Veterinary technologists and technicians	52.0%	\$29,710
Reinforcing iron and rebar workers	48.6%	\$38,430
Physical therapist assistants	45.7%	\$49,690
Helperspipelayers, plumbers, pipefitters, and steamfitters	45.4%	\$26,740
Meeting, convention, and event planners	43.7%	\$45,260



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Occupations with the Largest Job Growth

Thousa	nds of jobs, projected 2010-2	Me 20 wage	dian annual s, May 2010
Registered nurses		711.9	\$64,690
Retail salespersons		706.8	\$20,670
Home health aides		706.3	\$20,560
Personal care aides	60	7.0	\$19,640
Office clerks, general	489.5		\$26,610
Combined food preparation and serving workers, including fast food	398.0	498000000000000000000000000000000000000	\$17,950
Customer service representatives	338.4		\$30,460
Heavy and tractor-trailer truck drivers	330.1		\$37,770
Laborers and freight, stock, and material movers, hand	319.1		\$23,460
Postsecondary teachers	305.7		\$45,690



Occupations with the Most Job Openings

Thousands of j	job openings, projected 2010-20	Median annual Wages, May 2010
Retail Salespersons	1,958.7	\$20,670
Cashiers	1,775.9	\$18,500
Waiters and Waitresses	1,324.3	\$18,330
Registered Nurses	1,207.4	\$64,690
Combined Food Preparation and Serving Workers, Including Fast Food	1,146.5	\$17,950
Office Clerks, General	1,011.5	\$26,610
Laborers and Freight, Stock, and Material Movers, Hand	980.2	\$23,460
Customer Service Representatives	959.6	\$30,460
Home Health Aides	837.5	\$20,560
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	682.0	\$22,210
	Growth Replaceme	nt needs 38



Fastest Declining Occupations

Median annua wages, May 2	Uprcont change proje	cted 2010-20
\$26,280	-53.4%	Shoe machine operators and tenders
\$53,080	-48.5%	Postal Service mail sorters, processors, and processing machine operators
\$53,100	-48.2%	Postal Service clerks
\$38,970	-35.6%	Fabric and apparel patternmakers
\$60,300	-27.8%	Postmasters and mail superintendents
\$20,600	-25.8%	Sewing machine operators
\$24,920	-23.3%	Switchboard operators, including answering service
\$23,490	-21.8%	Textile cutting machine setters, operators, and tenders
\$25,870	-18.2%	Textile knitting and weaving machine setters, operators, and tenders
\$33,130	-17.9%	Semiconductor processors

Education and Training Classification

- New classification system introduced with 2010-20 projections
- Consists of three categories of information for each occupation:
 - Typical education needed for entry
 - ► Work experience in a related occupation
 - Typical on-the-job training needed to attain competency in the occupation

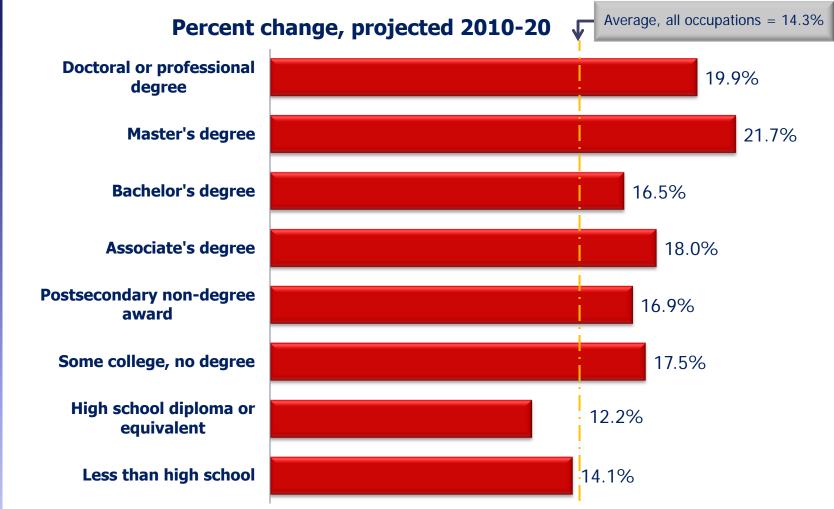


Employment by Typical Entry-level Education Category: 2010

	Thousands of jobs	Median annual Wages, May 2010
Doctoral or professional degree	4,409.7	\$87,500
Master's degree	1,986.0	\$60,240
Bachelor's degree	22,171.1	\$63,430
Associate's degree	7,994.6	\$61,590
Postsecondary non-degree award	6,524.0	\$34,220
Some college, no degree	811.6	\$44,350
High school diploma or equivalent	62,08	89.6 \$34,180
Less than high school	37,081.7	\$20,070

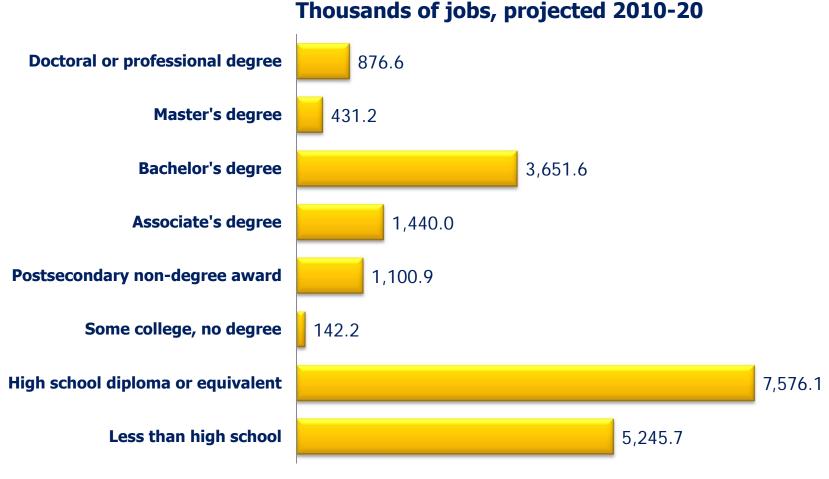


Percent Change in Employment by Typical Entry-level Education Category





Employment Change by Typical Entry-level Education Category



Thousands of jobs, projected 2010-20

Doctoral or Professional Degree Occupations with the Largest Job Growth

w	т	Thousands of jobs,	projected 2010-20	Median annual wages, May 2010
N	N	Postsecondary teachers	305.7	\$62,050
Ν	I/R	Physicians and surgeons	168.3	≥\$166,400
N	N	Physical therapists	77.4	\$76,310
Ν	Ν	Lawyers	73.6	\$112,760
N	N	Pharmacists	69.7	\$111,570
N	Ν	Medical scientists, except epidemiologists	36.4	\$76,700
N	I/R	Clinical, counseling, and school psychologists	33.7	\$66,810
N	I/R	Dentists, general	27.6	\$141,040
N	N	Veterinarians	22.0	\$82,040
N	Ν	Chiropractors	14.9	\$67,200 44

Master's Degree Occupations with the Largest Job Growth

w	т	Thousands of jobs, projected 2010-20			Median annual wages, May 2010	
N	N	Educational, guidance, school, and vocational counselors		53.4	\$53,380	
Ν	Ν	Healthcare social workers		51.2	\$47,230	
N	I/R	Mental health counselors	43.	6	\$38,150	
Ν	Ν	Rehabilitation counselors	36.6		\$32,350	
N	N	Occupational therapists	36.4		\$72,320	
Ν	Ν	Speech-language pathologists	28.8		\$66,920	
1-5	Ν	Education administrators, postsecondary	27.8		\$83,710	
5+	Ν	Instructional coordinators	27.3		\$58,830	
N	N	Physician assistants	24.7		\$86,410	
1-5	N	Education administrators, elementary and secondary school	23.2		\$86,970 45	



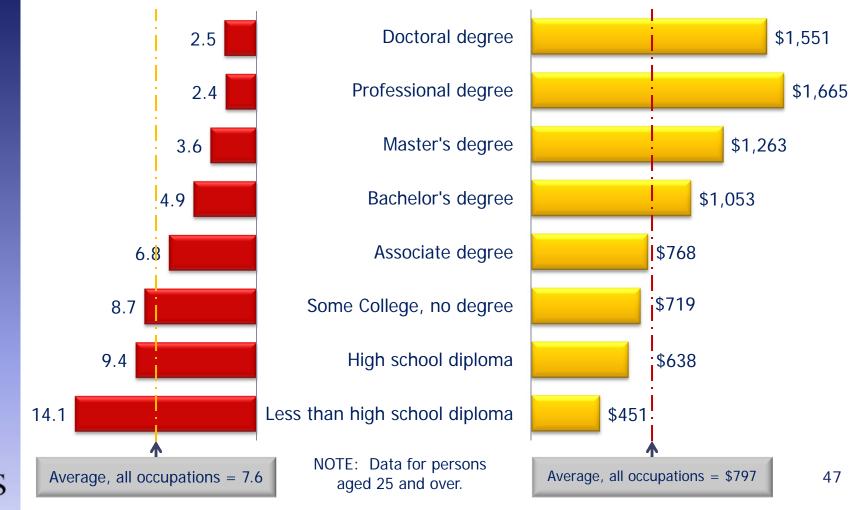
High School Diploma Occupations with the Largest Job Growth

w	т	Thousands of jobs, projected 2	2010-20	Median annual wages, May 2010
N	S	Office clerks, general		489.5 \$26,610
N	S	Customer service representatives	338	8.4 \$30,460
1-5	S	Heavy and tractor-trailer truck drivers	330).1 \$37,770
Ν	S	Childcare workers	262.0	0 \$19,300
N	М	Bookkeeping, accounting, and auditing clerks	259.0) \$34,030
N	S	Receptionists and information clerks	248.5	\$25,240
N	М	Sales representatives, wholesale and manufacturing, except technical and scientific products	223.4	\$52,440
Ν	М	Medical secretaries	210.2	\$30,530
1-5	N	First-line supervisors of office and administrative support workers	203.4	\$47,460
N	А	Carpenters	196.0	\$39,530 46

Education pays...

Unemployment rate, 2011

Median weekly earnings, 2011



Contact Information

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