



An Introduction to Occupational Projections

Presented to
The Wyoming Workforce Development Council
Rawlins, WY
09/25/2009

Presented by
William (Tony) Glover
Wyoming Department of Employment
Research & Planning

william.glover@state.wy.us





Wyoming Quarterly UI/WC Summary Report and Employee Wage Listings

WYOMING QUARTERLY UI/WC SUMMARY REPORT

Business Name: ABC SAMPLE CO INC
 Quarter End Date: 03/31/2008
 Due Date: 04/30/2008

UNEMPLOYMENT INSURANCE (UI) Account Number: 012345678

| | |
|--|---------|
| 1. Total UI Wages For The Quarter (Including Tax) | 5238.75 |
| 2. Excess Wages (2008 TRAILER WAGE RATE 0.00110) | 5080.00 |
| 3. Taxable Wages (Line 1 minus Line 2) | 158.75 |
| 4. Tax Due (Multiple Line 3 by .0265) | 4.21 |
| 5. Interest Due (2% of 2007 Ptd Month From Due Date Shown Above) | 0 |
| 6. Amount Due From Prior Report Periods | 0 |
| 7. Outstanding Unemployment Insurance Credit | 0 |
| 8. Total Unemployment Insurance Amount Due (4+5+6-7) | 4.21 |

WORKERS' COMPENSATION (WC) Employer Number: 007654321

| WC Class Code | Employees | WC Total Wages For WAGE EARNERS TAX |
|---------------|-----------|-------------------------------------|
| 000010 | 1 | |
| 236115C | 1 | |
| 236115 | 4 | |
| TOTALS | 6 | |

WYOMING EMPLOYEE WAGE LISTINGS

Business name: ABC SAMPLE CO INC
 Address: 111 SAMPLE RD
 SAMPLE TOWN, USA 11111

| A1. Social Security Number | A2. Employee Name Last, First | A3. Title | A4. Total Wages (Excl. Tax) | A5. WC Class Code | A6. Tax Rate | A7. New Hire Date | A8. Total Hours To Date |
|----------------------------|-------------------------------|-----------|-----------------------------|-------------------|--------------|-------------------|-------------------------|
| 123 45 6789 | JONES SAM | | 1899.00 | 236115 | T | 01 20 2008 | 236 |
| 223 45 6789 | SMITH TOM | 30 35 | 3543.45 | 236115 | T | | 294 |
| 323 45 6789 | BROWN DON | | 7762.45 | 236115 | T | | 659 |
| 423 45 6789 | SIMPSON ABE | 40 50 | 774.00 | 236115 | T | 02 18 2008 | 86 |
| 523 45 6789 | SAMPLE TERRI | | 5000.00 | 000010 | T | | 200 |
| EMPLOYEE SUBTOTALS: | | | 1899.00 | 1899.00 | | | 1908.75 |

CORPORATE OFFICER INFORMATION ONLY

| A1. Social Security Number | A2. Officer Name Last, First | A3. WC Avg. Wages | A4. Total Wages (W/R Tax) | A5. WC Class Code | A6. Tax Rate | A7. New Hire Date | A8. Total Hours To Date |
|-------------------------------------|------------------------------|-------------------|---------------------------|-------------------|--------------|-------------------|-------------------------|
| 623 45 6789 | SAMPLE JOE | 3360.00 | 25180.00 | 236115C | T | | 647 |
| 723 45 6789 | SAMPLE SALLY | | 15000.00 | | U | | 200 |
| CORPORATE OFFICER SUBTOTALS: | | | 3360.00 | 40180.00 | | | 5928.75 |

Signature: Joe Sample, Title: President





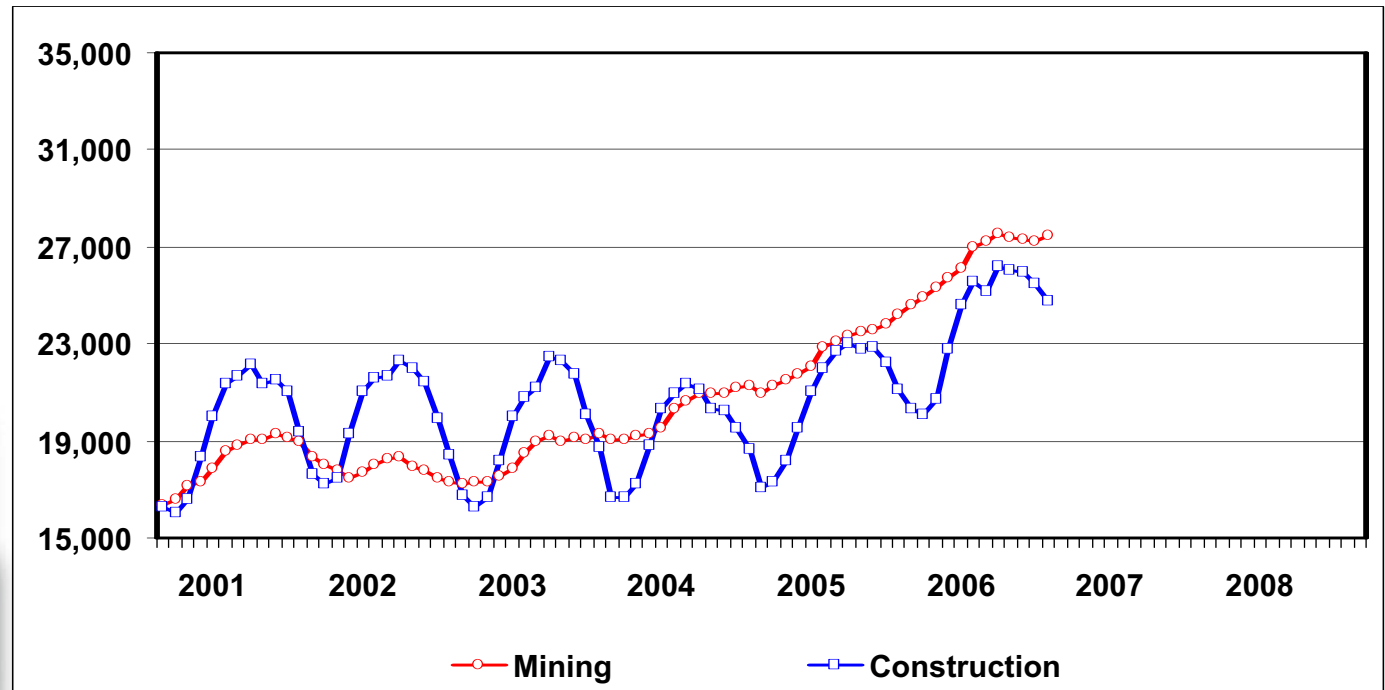
Wyoming Quarterly UI/WC Summary Report and Employee Wage Listings - Collection

- Research & Planning maintains archived Summary and Wage Listing data to the early 90s.
- Summary records have the employer account number, employers name, industry, location, employment as of the 12th of each month, and total wages paid by quarter.
- Wage Listing data have employer account number, employee social security number, and total wages by quarter.
- Data are retained and used for:
- Addressing a wide variety of labor force questions such as training program participation, the impact of injury on subsequent earnings, etc.
- Statewide employment projections by Industry and region.



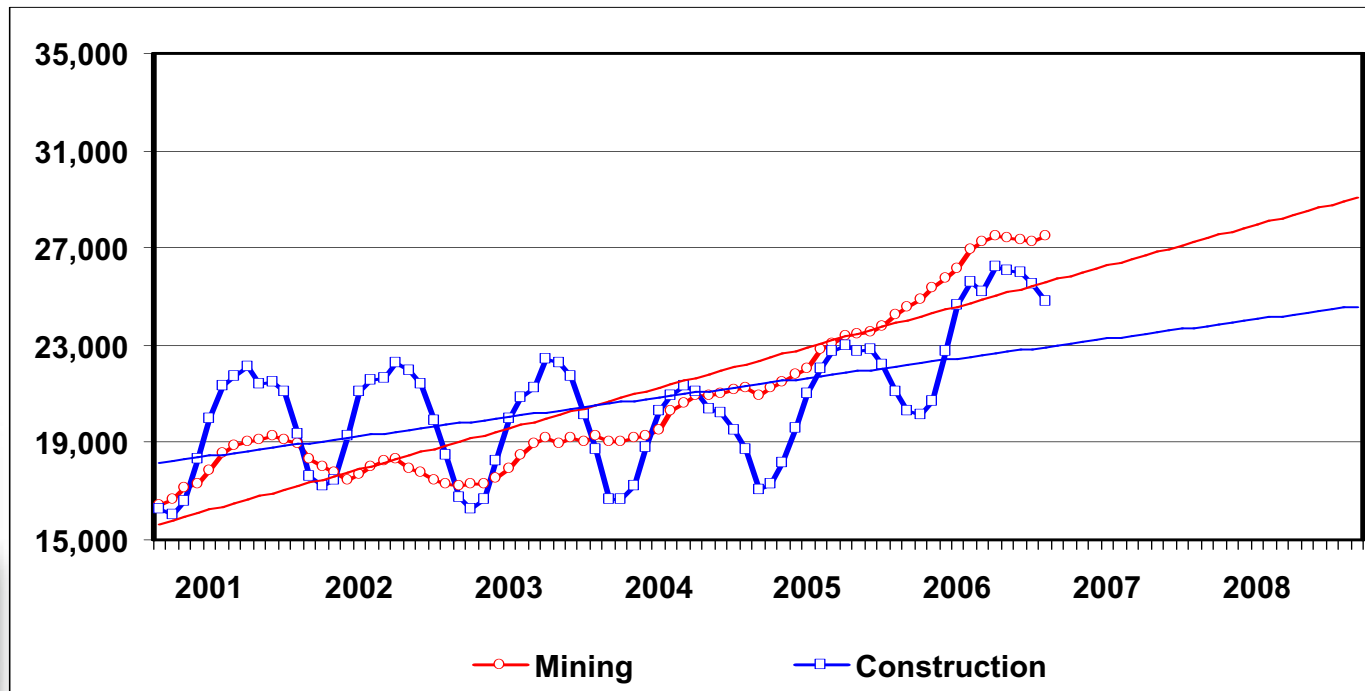


Employment in Mining and Construction by Month 2001 to 2006. (Base Period)



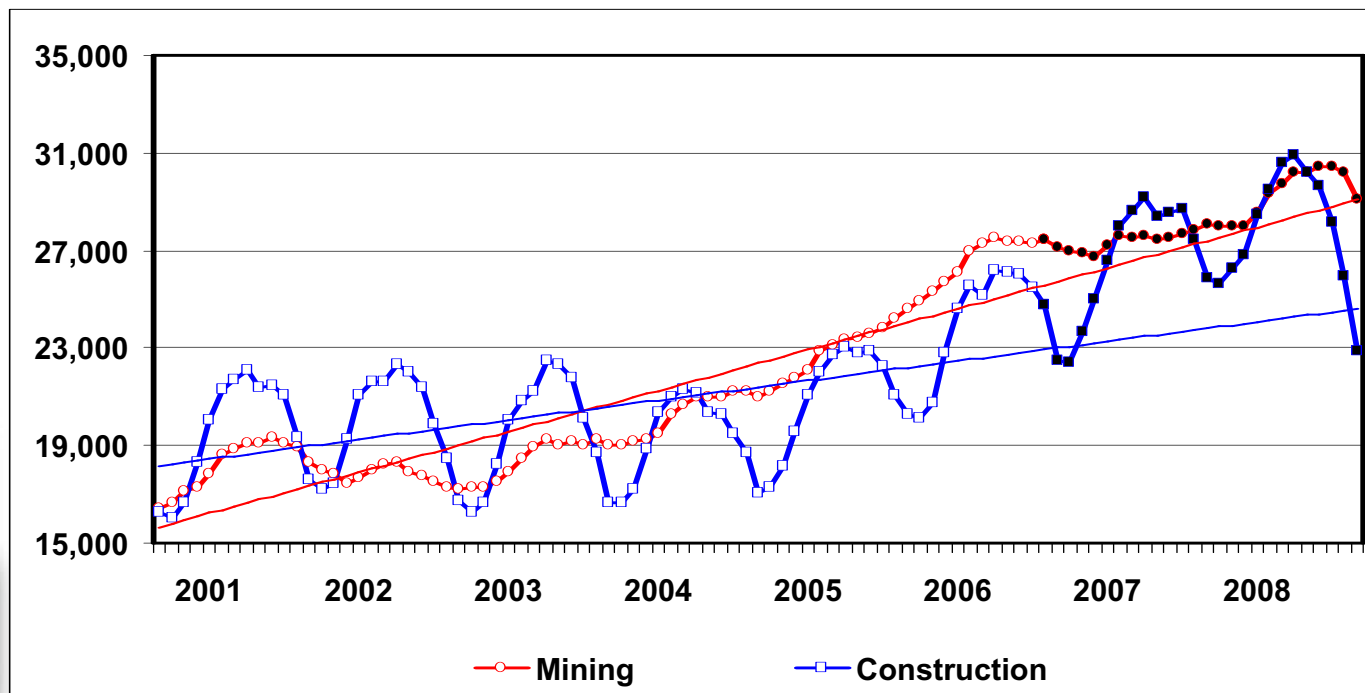


Linear Projection to December 2008 Based on the 2001 to 2006 Base Period Employment Trends in Mining and Construction.





Base Period, Linear Projection, and Actual Employment (What really happened) in Mining and Construction 2007 to 2008.





Bureau of Labor Statistics, Occupational Employment Statistics - Collection Form

OCCUPATIONAL EMPLOYMENT REPORT
OF SOCIAL ASSISTANCE (624000)

In Cooperation with the
U.S. Department of Labor



What this report is about: This form asks for information about the occupations and wage ranges of the employees described in Item 3 below. Please complete Items 1 through 5 on this page. Next, please provide the information requested beginning on page 1 for the employees who worked during or received pay for the pay period that included the reference date in Item 3, printed directly above your establishment name. The instructions on pages ii and iii explain how to provide the information. Please see our website at <http://www.bls.gov/OES> for more information on the OES Program, including a display of national, state and metropolitan area employment and wage estimates by occupation.

1 Which of the following options describes the status of the location(s) in Item 3 as of the reference date also printed in Item 3?

- Operating: Go to item 2.
- Temporarily closed during employees paid for work done worked for pay, report "0" in the reply envelope provided.
- Permanently out of business address at the top.
- Sold or merged: Enter the go to item 2.

New Name: _____
New Address: _____

2 Our records show that your main products listed below. If they are not, please list lines provided and continue with the re

624000

3 This form asks for information about the employees described below. Our estimate of employment for these employees appears at the top right corner of the label. Please make any needed address corrections.

| OCCUPATIONAL TITLE AND DESCRIPTION OF DUTIES | NUMBER OF EMPLOYEES IN SELECTED WAGE RANGES (Report Part-time Workers According to an Hourly Rate) | | | | | | | | | | | | | Total Employment |
|---|--|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|---|------------------|
| | A | B | C | D | E | F | G | H | I | J | K | L | T | |
| | Hourly (part-time or full-time) under \$7.50 | \$7.50-9.49 | \$9.50-11.99 | \$12.00-15.24 | \$15.25-19.24 | \$19.25-24.49 | \$24.50-30.99 | \$31.00-39.24 | \$39.25-49.74 | \$49.75-63.24 | \$63.25-79.99 | \$80.00 and over | | |
| Financial Managers - (Controller) Plan, direct, and coordinate accounting, investing, banking, insurance, securities, and other financial activities of a branch, office, or department of an establishment. | | | | | | | | | | | | | | |
| Compensation and Benefits Managers - Plan, direct, or coordinate compensation and benefits activities and staff of an organization. Include job analysis and position description managers. | | | | | | | | | | | | | | |
| Education Administrators, Preschool and Child Care Center/Program - Plan, direct, or coordinate the academic and nonacademic activities of preschool and child care centers or programs. | | | | | | | | | | | | | | |
| Food Service Managers - Plan, direct, or coordinate activities of an organization or department that serves food and beverages. | | | | | | | | | | | | | | |
| Medical and Health Services Managers - Plan, direct, or coordinate medicine and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations. | | | | | | | | | | | | | | |
| Social and Community Service Managers - (Public Welfare Director, Volunteer Services Manager) Plan, organize, or coordinate the activities of a social service program or community outreach organization. Oversee the program or organization's budget and policies regarding participant involvement, program requirements, and benefits. | | | | | | | | | | | | | | |

624000

2










Bureau of Labor Statistics, Occupational Employment Statistics - Collection Form

- The OES program produces employment and wage estimates for about 800 occupations. These are estimates of the number of people employed in certain occupations, and estimates of the wages paid to them.
- R&P maintains annual OES data in like format (using NAICS and SOC) from 2002 to present.
- Quarterly UI/WC data allow us to understand and project employment by Industry and Region. OES data lends itself to an understanding of the occupational distribution of employment within the industry and changes in that distribution over time.














Occupational Employment Statistics - Estimated Employment by Year

| Occupation | 2003 | 2004 | 2005 | 2006 | 2007 |
|---|-------|-------|-------|-------|-------|
|  | 5,069 | 5,401 | 5,500 | 6,111 | 6,454 |
|  | 2,493 | 2,588 | 3,325 | 3,746 | 4,906 |
|  | 3,578 | 3,656 | 3,938 | 4,009 | 4,255 |
|  | 1,889 | 2,126 | 2,958 | 3,234 | 3,493 |
|  | 1,942 | 2,020 | 2,024 | 1,946 | 1,983 |





Occupational Employment Statistics - Electricians by Major Industry Employment

| Occupation | Industry | 2003 | 2007 | Net | % |
|---|---|------|------|------|----------|
|  | All | 1942 | 1983 | + 41 | + 2.1 % |
|  |  | 1261 | 1340 | + 79 | + 6.3 % |
|  |  | 325 | 378 | + 53 | + 16.3 % |
|  |  | 156 | 73 | - 83 | - 53.2 % |
|  |  | 109 | 68 | - 41 | - 37.6 % |





Combining UI/WC Data with OES Data

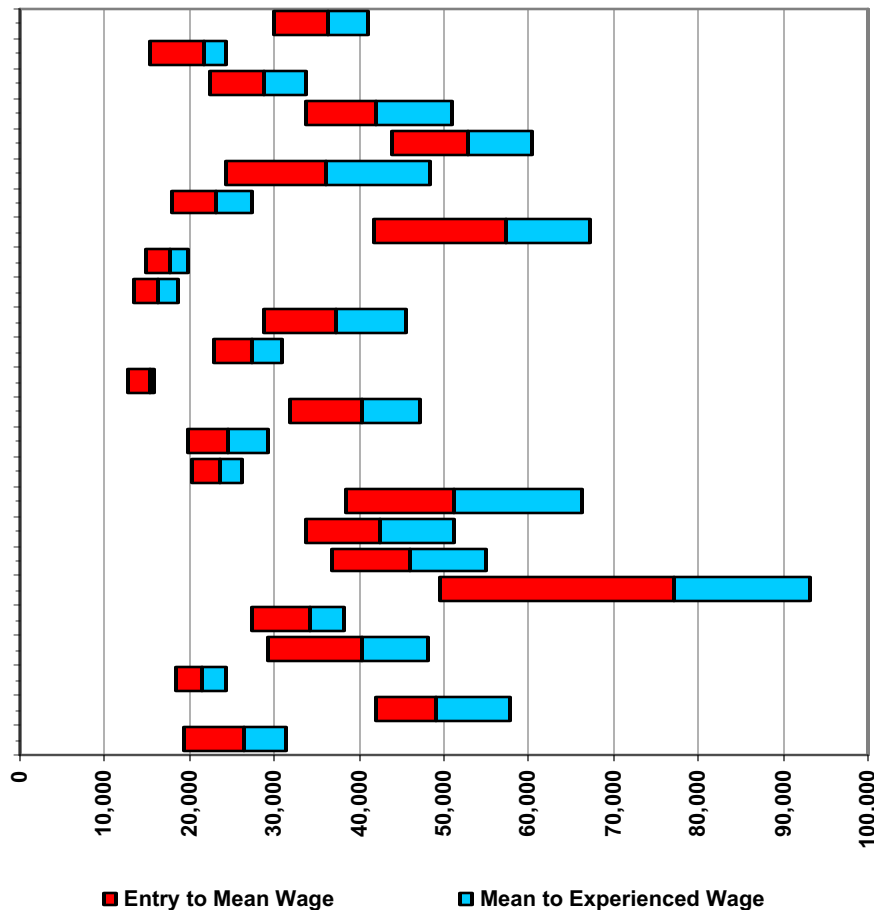
- In a nutshell, combining UI/WC tax based industry data with the OES program data are the foundation of occupational projections.
- The Employment and Training Administration (ETA), Bureau of Labor Statistics (BLS), National Association of State Workforce Agencies (NASWA), and State Projections Workgroup collaborated to create a Projections Suite that is used to produce reliable long- and short-term occupational employment projections.





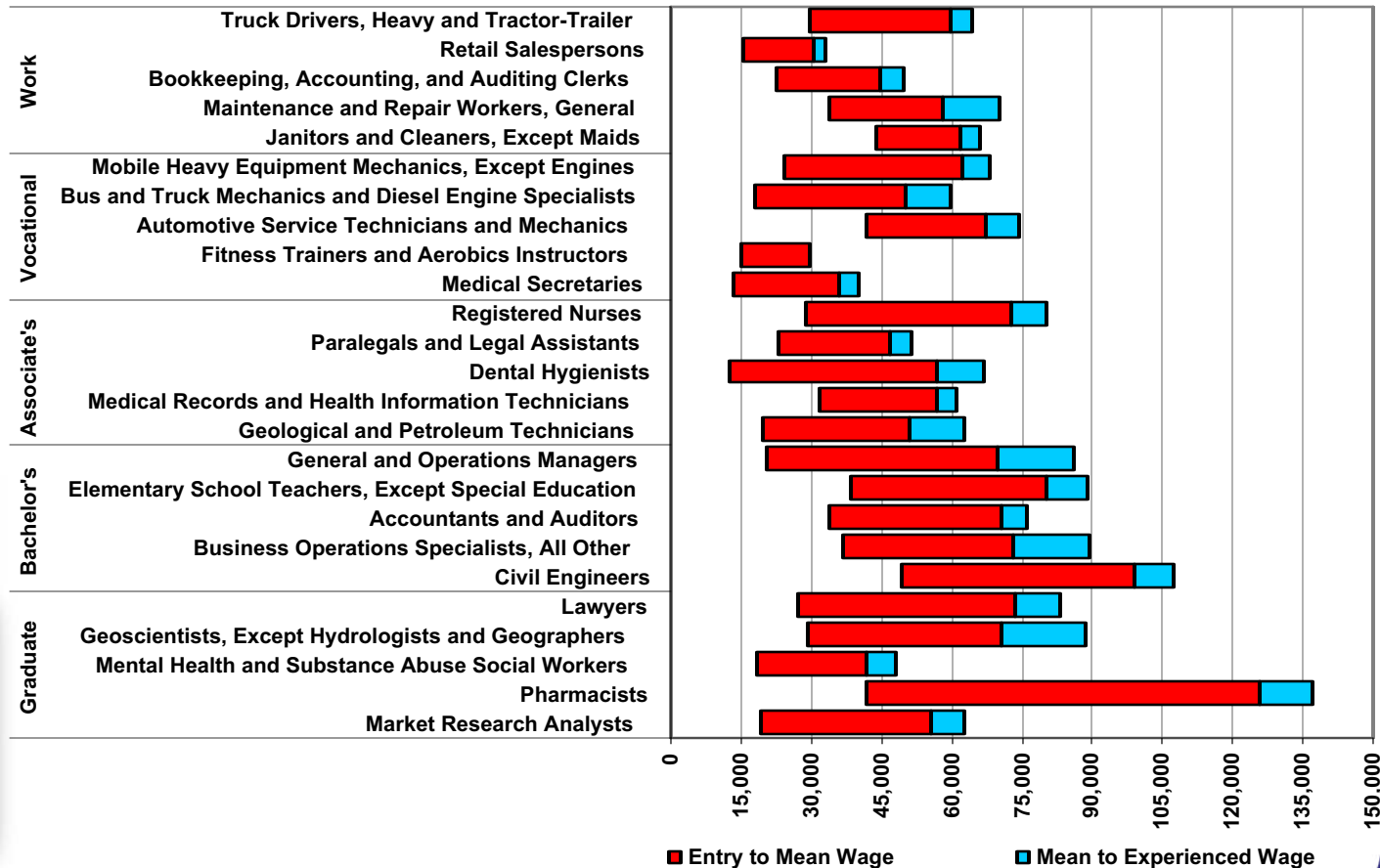
Top 25 Occupations with Highest Projected Net Growth 2006 to 2016 by Annual Wage 2007

- Truck Drivers, Heavy and Tractor-Trailer
- Retail Salespersons
- Bookkeeping, Accounting, and Auditing Clerks
- Other Construction Equipment Operators
- Registered Nurses
- Maintenance and Repair Workers, General
- Janitors and Cleaners, Except Maids
- First-Line Supervisors/Managers of
Maids and Housekeeping Cleaners
- Combined Food Preparation and Serving
Carpenters
- Construction Laborers
- Waiters and Waitresses
- Welders, Cutters, Solderers, and Brazers
- Secretaries, Except Legal, Medical, and Executive
- Nursing Aides, Orderlies, and Attendants
- Industrial Machinery Mechanics
- Derrick Operators, Oil and Gas
- Electricians
- General and Operations Managers
- Roustabouts, Oil and Gas
- Plumbers, Pipefitters, and Steamfitters
- Home Health Aides
- Elementary School Teachers, Except Special
- Customer Service Representatives



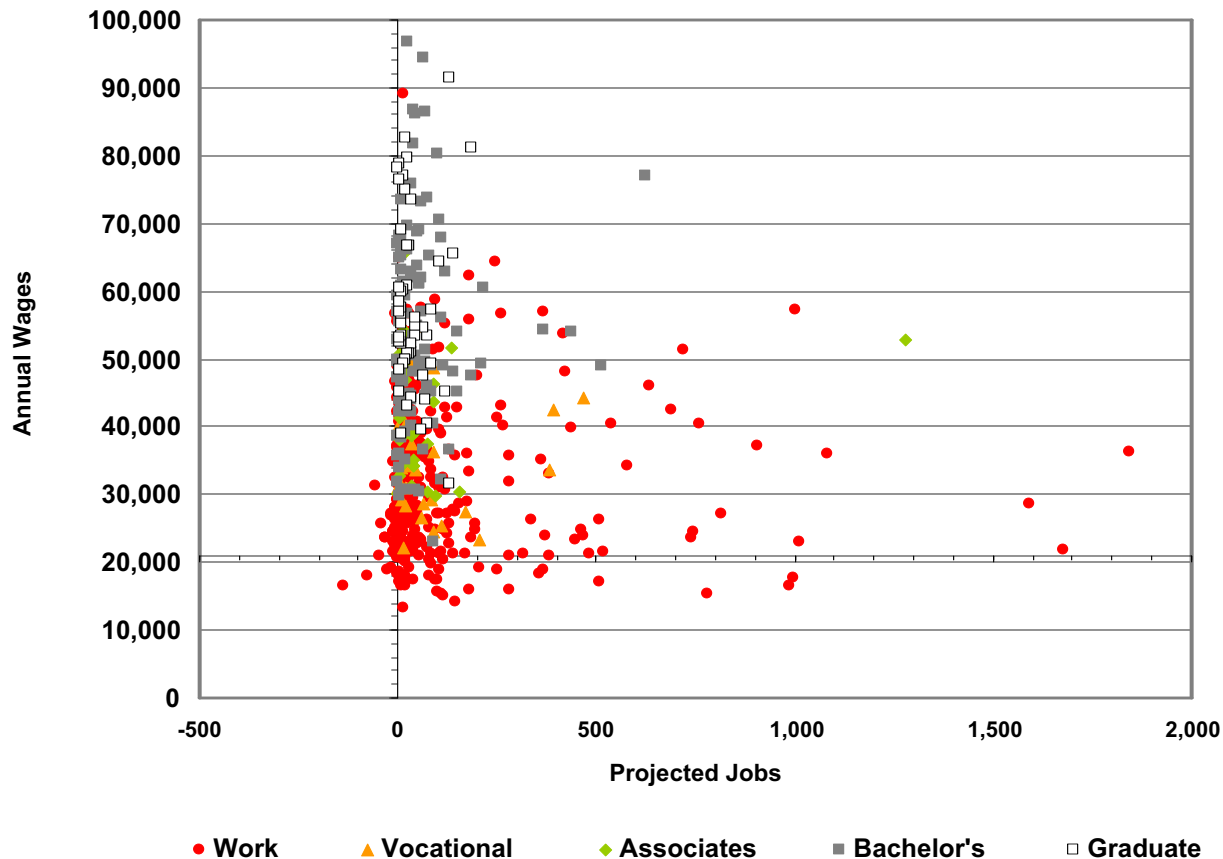


Top 5 Occupations with Highest Projected Net Growth by Typical Education and Annual Wage 2007



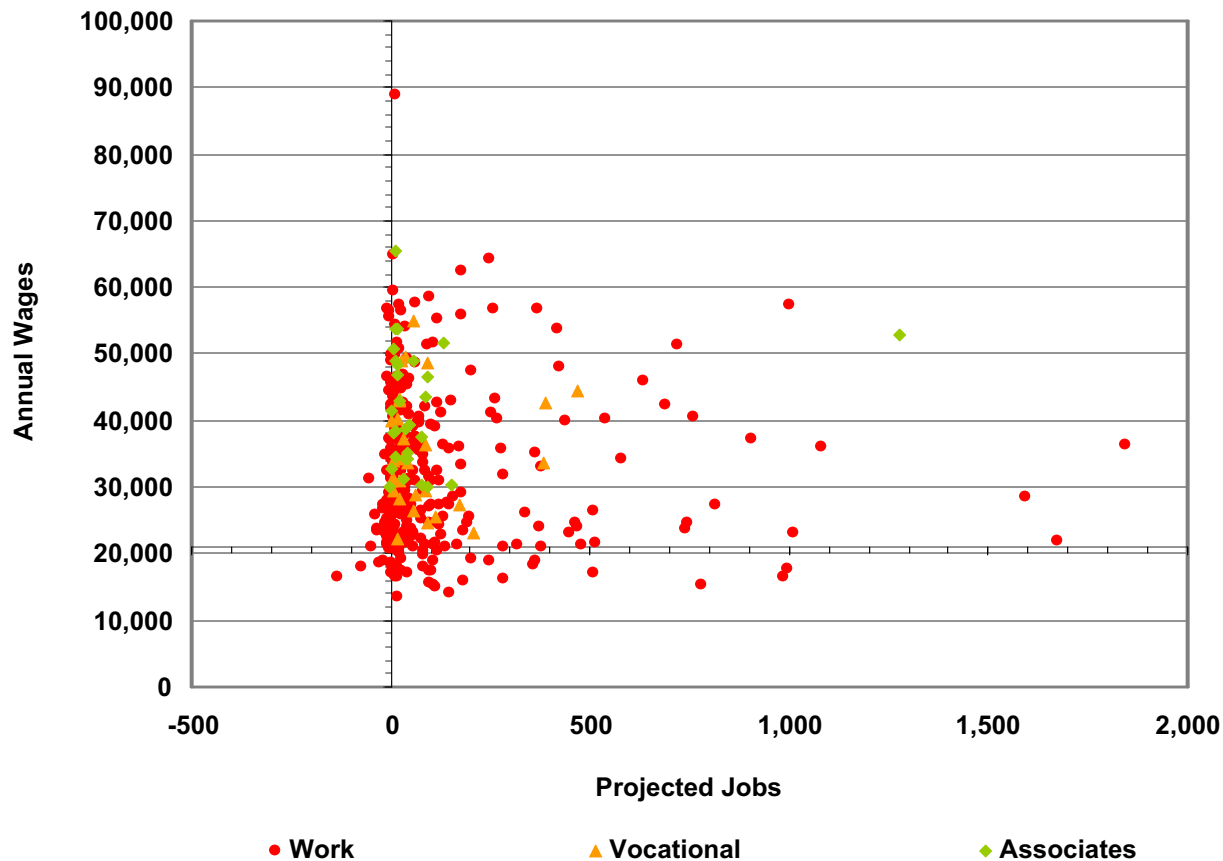


Scatter Plot of Projected Net Job Growth and Annual Wage 2007 by Education – All Occupations



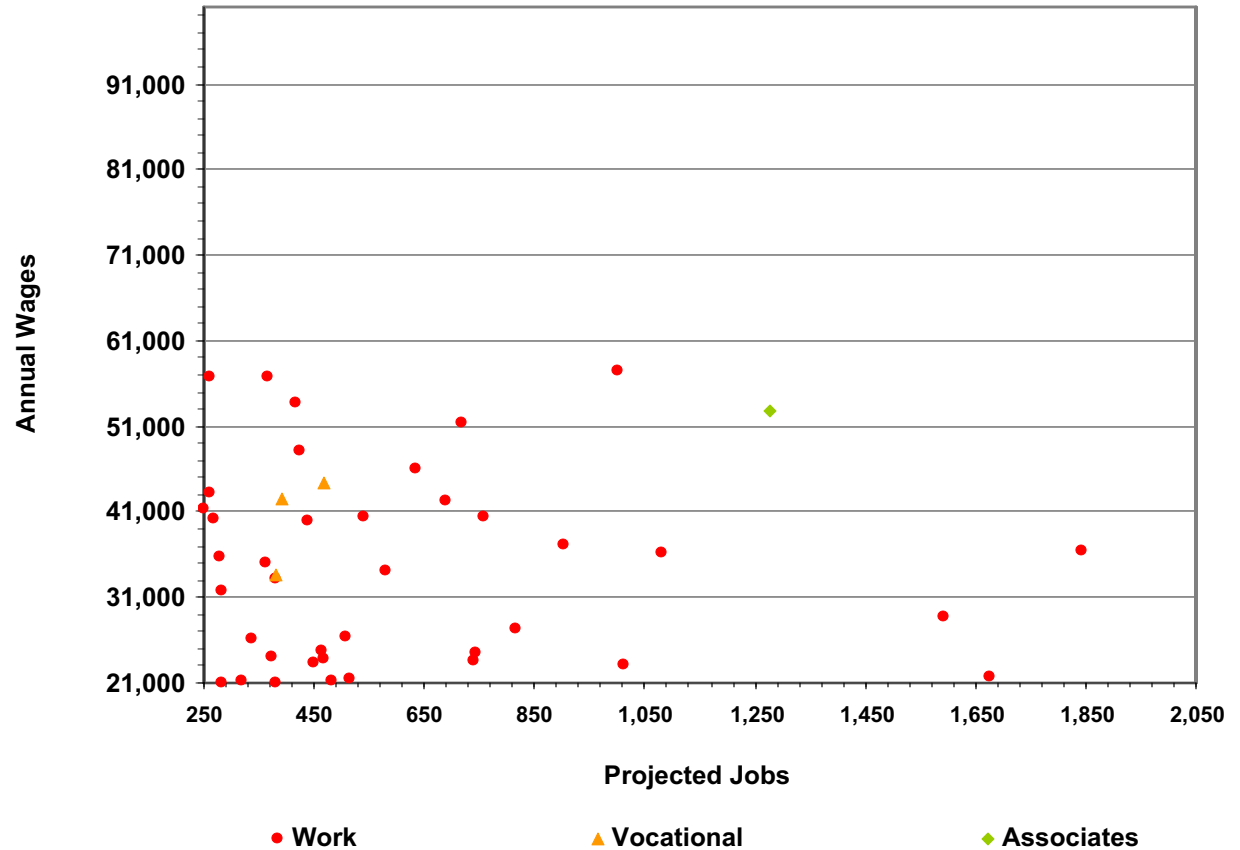


Scatter Plot – Occupations Requiring an Associates Degree or Less





Scatter Plot – Occupations Requiring an Associates Degree or Less, more than 250 Jobs, and above Federal Poverty level in 2008





Occupations Requiring an Associates Degree or Less, more than 250 Jobs, and above Federal Poverty level

| Typical Education | Occupation | Projected Jobs | Average Annual Wage |
|--------------------|--|----------------|---------------------|
| 01-Work Experience | Truck Drivers, Heavy and Tractor-Trailer | 1,842 | 36,391 |
| | Retail Salespersons | 1,676 | 21,790 |
| | Bookkeeping, Accounting, and Auditing Clerks | 1,591 | 28,666 |
| | Maintenance and Repair Workers, General | 1,082 | 36,086 |
| | Janitors and Cleaners, Except Maids | 1,011 | 23,021 |
| | First-Line Supervisors/Managers of Construction Trades | 1,002 | 57,347 |
| | Maids and Housekeeping Cleaners | 997 | 17,592 |
| | Combined Food Preparation and Serving Workers | 988 | 16,381 |
| | Carpenters | 905 | 37,235 |
| | Construction Laborers | 815 | 27,285 |
| | Waiters and Waitresses | 780 | 15,376 |
| | Welders, Cutters, Solderers, and Brazers | 758 | 40,442 |
| | Secretaries, Except Legal, Medical, and Executive | 745 | 24,513 |
| | Nursing Aides, Orderlies, and Attendants | 739 | 23,672 |
| | Industrial Machinery Mechanics | 719 | 51,282 |
| | Derrick Operators, Oil and Gas | 690 | 42,337 |
| | Electricians | 633 | 46,005 |





Occupations Requiring an Associates Degree or Less, more than 250 Jobs, and above Federal Poverty level

| Typical Education | Occupation | Projected Jobs | Average Annual Wage |
|--|---|----------------|---------------------|
| 01-Work Experience | Roustabouts, Oil and Gas | 579 | 34,189 |
| | Plumbers, Pipefitters, and Steamfitters | 539 | 40,305 |
| | Home Health Aides | 516 | 21,480 |
| | Customer Service Representatives | 509 | 26,308 |
| | Counter and Rental Clerks | 507 | 17,232 |
| | Teacher Assistants | 481 | 21,263 |
| | Office Clerks, General | 467 | 23,916 |
| | Landscaping and Groundskeeping Workers | 464 | 24,764 |
| | Social and Human Service Assistants | 449 | 23,254 |
| | Sales Representatives, Wholesale and Manufacturing | 438 | 39,861 |
| | Extraction Workers, All Other | 424 | 48,046 |
| | First-Line Supervisors/Managers of Transportation | 418 | 53,738 |
| | Cooks, Restaurant | 381 | 20,974 |
| | First-Line Supervisors/Managers of Retail Sales Workers | 381 | 33,057 |
| | Laborers and Freight, Stock, and Material Movers, Hand | 372 | 23,948 |
| First-Line Supervisors/Managers of Mechanics, Installers | 366 | 56,799 | |
| Hotel, Motel, and Resort Desk Clerks | 365 | 18,963 | |





Occupations Requiring an Associates Degree or Less, more than 250 Jobs, and above Federal Poverty level

| Typical Education | Occupation | Projected Jobs | Average Annual Wage |
|------------------------|---|----------------|---------------------|
| 01-Work Experience | Executive Secretaries and Administrative Assistants | 361 | 35,087 |
| | Child Care Workers | 359 | 18,266 |
| | First-Line Supervisors/Managers of Food Preparation | 337 | 26,239 |
| | Receptionists and Information Clerks | 318 | 21,338 |
| | Personal and Home Care Aides | 282 | 21,047 |
| | Cement Masons and Concrete Finishers | 282 | 31,807 |
| | Bartenders | 281 | 16,071 |
| | Excavating and Loading Machine and Dragline Operators | 279 | 35,820 |
| | First-Line Supervisors/Managers of Office | 268 | 40,239 |
| | Service Unit Operators, Oil, Gas, and Mining | 262 | 43,162 |
| 02-Vocational Training | First-Line Supervisors/Managers of Production | 260 | 56,768 |
| | Inspectors, Testers, Sorters, Samplers, and Weighers | 251 | 41,233 |
| | Mobile Heavy Equipment Mechanics, Except Engines | 467 | 44,321 |
| | Bus and Truck Mechanics and Diesel Engine Specialists | 390 | 42,542 |
| 03-Associates Degree | Automotive Service Technicians and Mechanics | 382 | 33,590 |
| | Registered Nurses | 1,278 | 52,795 |



