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Job Vacancy Survey

Conducted September 28-October 3, 2001

Alamosa, Conejos, Costillo, Mineral, Rio Grande, & Saguache Counties

WA

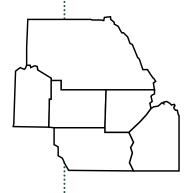
December 2001





Workforce Research & Analysis **Labor Market Information** Colorado Department of Labor and Employment





San Luis Valley Region Job Vacancy Survey

Conducted September 28-October 3, 2001

State of Colorado

Bill Owens, Governor

Colorado Department of Labor & Employment

Vickie Armstrong, *Executive Director*Jeffrey M. Wells, *Deputy Executive Director*

Funding Provided in Part by The Colorado Workforce Development Council

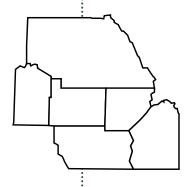
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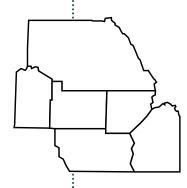
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The office of Workforce Research and Analysis would like to extend sincerest gratitude to all the San Luis Valley Region employers who participated in this study. The analysis provided in this document would not be possible without their help.

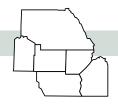


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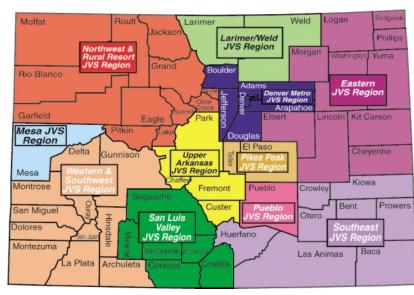
Introduction

The unemployment rate, along with the level and growth rate of employment, has been used as an indicator of labor market conditions for decades. While this indicator provides information about changes in the demand for labor, it reveals nothing about the skills most sought after by employers. As such, individuals preparing themselves for the job market have done so with limited knowledge of what skills are necessary to successfully compete in the contemporary labor market.

The San Luis Valley Job Vacancy Survey was initiated not only to measure demand for workers at a specific point in time, but also to provide detailed information on the quality of employees demanded.

The Job Vacancy Survey was adopted by Colorado's Department of Labor and Employment through the Denver Metro pilot studies of September 1999 and April 2000, which were initiated by Arapahoe/Douglas Works! The popularity of the reports based on the survey data led the CDLE to expand its coverage to include the entire state of Colorado. Since the Denver Metro JVS of April 2000,

Colorado Job Vacancy Survey Regions



the survey instrument was revised to eliminate ambiguity and enhanced to gather more specifics on job vacancies within the survey constraints.

The survey is funded by a grant from the U.S. Department of Labor's Employment and Training Administration. The JVS is produced by Labor Market Information's office of Workforce Research and Analysis.

This publication is a product of the Colorado Department of Labor and Employment's Labor Market Information Section, Bill LaGrange-Director. This report was prepared by LMI's office of Workforce Research and Analysis. Members of this unit are:

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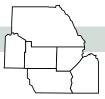
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This report is published annually. Comments, suggestions, and questions regarding content and format are welcome and may be addressed to:

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How to Use This Report

Tith the analysis of labor market conditions, many questions regarding labor demand and supply, as well as labor skills requirements, often arise.

- ◆ Is there a labor shortage in the region?
- ◆ If so, what types of labor are in short supply?
- ◆ Is there a shortage of skills?
- ◆ What skills are necessary to fill current vacancies?

The answers to these and similar questions are important in the decision-making processes of employers, job seekers, trainers and planning officials. While Labor Market Information has provided information on the local labor force supply, the Job Vacancy Survey will further complement this data by providing information about the demand for labor and offer a more complete picture of local labor markets.

Employers

The Job Vacancy Survey measures the area's current vacancies and provides information to employers who may be experiencing difficulty in filling positions due to:

- ◆ worker shortage,
- an imbalance between job seekers' skills and employers' needs,
- compensation packages that are insufficient as a recruitment tool when compared to market standards.

This report identifies certain characteristics of current vacancies according to general categories. For example, upon review of the results, an employer observes a high percentage of vacancies in the region's firms requiring a specific level of education or experience. This observation might indicate that the labor force and/or its skills fall short of the market needs, thus calling for a decision to increase investment in training or import skilled workers. Delays in filling vacancies despite increases in wages and/or benefits

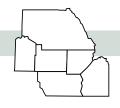
may be attributed to an overall shortage of applicants in the area. Similarly, if a low percentage of vacancies exist for a particular position with the same educational and/or experience requirement, but an employer is finding it difficult to fill, a comparison between the wages offered to the market average may indicate a need for an adjustment.

After a series of surveys from the same time of year have been conducted, current and prospective employers will be able to identify industries and/or occupations that may be consistently oversupplied, in equilibrium, or undersupplied. Employers relocating to the area can review the report and determine how easily the company's employment needs will be met by reviewing current low vacancies. In addition, the Job Vacancy Survey results and Occupational Employment Statistics (OES) wage data (a measure of current wages being paid by occupation) can be used to develop a benchmark of wages to offer for the upcoming positions.

Job Seekers

For current job seekers, this report is a roadmap that can be used to determine where the best paying jobs are given their skills and level of education. The Job Vacancy Survey helps to illustrate the current balance of supply and demand in the local job market. It also provides average wages for open jobs as reported by survey respondents. Job seekers can review Labor

Market Information's occupational projections in addition to the Job Vacancy Survey to see if current opportunities in the job market can contribute to their long-term career goals. This information can help them better tailor education and training efforts toward industries and occupations with the potential to meet their career needs.



Workforce Centers

Public officials, educational institutions, and government agencies can use the Job Vacancy Survey information to allocate resources more efficiently among education, training, and job placement programs. The survey provides a short-term picture of the area's current employment needs. Workforce Center representatives can increase placement success by directing job seekers toward high demand occupations, or pointing them in a direction that might better suit the needs of the applicants' career goals.

Workforce Center officials can also review the nature of job vacancies and decide where to focus placement efforts. Investments in the workforce can be directed toward occupations or industries that continuously contribute to the local economy or to those where there is a constant need for workers.

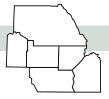
Current vacancy conditions as presented by the Job Vacancy Survey, coupled with other Labor Market Information reports, can offer a better picture of seasonality and long-term trends that might affect the provisions of future training programs. The Employment and Wage publication (ES-202 data) provides monthly county and statewide industry data reported on a quarterly basis. To prepare for the high demand of seasonal workers where vacancies persist, Workforce Centers and educators can offer training during the off-season guided by the quarterly data. Long-term industry trends in employment are also recorded on an annual basis in the same report for each county.

In addition, Labor Market Information provides statewide occupational projections available at www.coworkforce.com/lmi/oeo/oeo.htm, which includes projected employment growth, and identifies growing as well as declining occupations. This information, used with the Job Vacancy Survey's identification of current vacancies, can help Workforce Centers identify occupations in demand now as well as in the future. Workforce Centers can subsequently plan for future training programs in cooperation with businesses and educators.

Economic Developers

For economic development professionals, this report is a tool that can be used to track the labor status of key industries and evaluate the area's economic growth and development potential. The survey results can help determine where labor bottlenecks may occur should current vacancies persist. Economic developers

can also generate a comprehensive picture of the region by determining where current labor demand stands today, as identified by the Job Vacancy Survey, and where the market, in general, is trending using Labor Market Information's employment projections.



Caveats

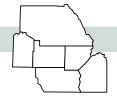
The Job Vacancy Survey statistics should be used as indicators, not actual values of the demand for workers in the San Luis Valley. Figures from the survey should not be interpreted as annual vacancies; rather, they are estimates of openings at a point-intime. Users should consider, when comparing the results of one survey to another, the effects seasonality and the business cycle will have on the data. For instance, a decrease in vacancies for construction workers from April to November would represent seasonal variations, not necessarily a long-term decrease in the demand for such workers.

The results of the survey are based only on the sample of responses collected from September 28th through October 3rd and should not be considered as necessarily portraying the exact distribution of job vacancies in the San Luis Valley. After several years of Job Vacancy Survey data are available, patterns may begin to emerge that more accurately reflect changing

labor market conditions. It should be recognized that the survey identifies current vacancies only, and does not explain whether the vacancies are due to employment growth in the occupations or if they are due to job turnover. In addition, not all surveyed firms participated. However, the employers who did participate enabled the production of statistically reliable results.

Users should keep in mind that the authors of this report are not attempting to project the level of vacancies into the future. In addition, events that have occurred since the time period analyzed, such as plant closings or the migration of people in and out of the area, may have had an effect on the vacancy status of some occupations.

Given the caveats, appropriate application by the user is the most important element for making the information in this report a relevant tool in job vacancy analysis.

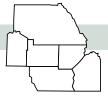


Executive Summary

The first San Luis Valley Job Vacancy Survey was conducted from September 28th, through October 3rd, 2001. Over the survey period, randomly selected employers with at least five employees were contacted in the region. Employers were asked if they were actively hiring at the time of the survey, and a variety of questions about positions they were seeking to fill.

A total of 413 employers (54% of the San Luis Valley employers), representing 62% of the region's total employment responded to the survey. Out of these, 42 are large employers (50 or more employees) and 371 are from the small to mid-size category (5-49 employees). The major findings of the survey are as follows:

- ◆ It is estimated that a total of 270 jobs were open for hire in the San Luis Valley during the survey period.
- ◆ Approximately 84% of the estimated jobs are full-time openings while 16% are part-time openings.
- ◆ Seventy-three percent of the estimated job openings are in the Service producing industries. The remaining 27% are in the Goods producing industries.
- ◆ The overall average wage for all vacancies is \$9.00 per hour. Average wages for permanent positions exceed those of temporary positions at both the full-time and part-time levels.
- ◆ Both education and experience requirements have a significant positive influence on wages offered.
- ◆ Fifty-six percent of the openings require no experience of any kind while 11% require only general work experience.
- ◆ Fifty-four percent of the job openings are either very difficult or somewhat difficult to fill.
- ◆ Jobs with higher education and experience requirements pay higher wages.

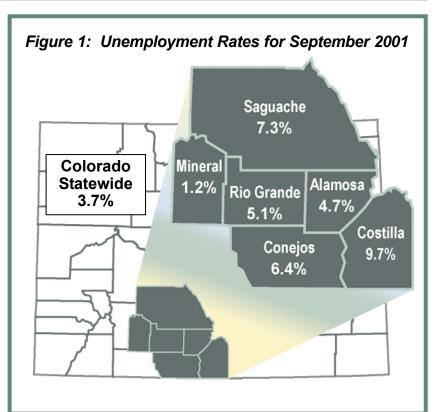


The San Luis Valley

ccording to the U.S. Census Bureau, Census 2000, the San Luis Valley, made up of Alamosa, Conejos, Costilla, Mineral, Rio Grande, and Aaguache counties, has a population of more than 46,200 residents. The region employed over 18,800 individuals from a labor force pool of about 20,400 people in September 2001, according to Colorado's Labor Market Information, Local Area Unemployment Statistics. Almosa County is the larges employing in the region accounting for 39% of the region's total employment followed by Rio Grande and Conejos counties at 23% and 17%, respectively. In the period between September 2000 and September 2001, the labor force in the region decreased by 0.3% while total employment decreased by 0.4% over the same period. While the overall unemployment rate for the region was 5.6% in September 2001, unemployment ranged from a low of 1.2% in Mineral County to a high of 9.7% in Costilla County. The

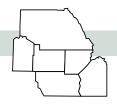
unemployment rates in the region were well above that of the State as a whole for almost all of counties in the San Luis Valley (*Figure 1*).

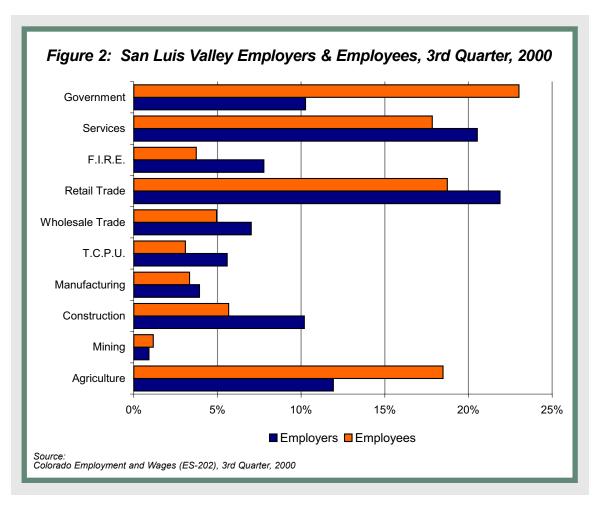
Figure 2 shows the employment and firm distribution for each of the major industry divisions according to Colorado Employment and Wages (ES-202) during the third quarter of 2000. This serves as a useful reference for the time period in which the San Luis Valley Job Vacancy Survey was conducted. Shares of employment by industry have remained fairly constant over the past six years. The San Luis Valley is highly Agricultural compared to other regions of the state. The Agricultural Sector ranks third in the region on its share of total employment following Government and Retail Trade. Employment shares of other industries range from a high of 18% in Services to a low of 1% in Mining (Figure 2).



The San Luis Valley region has the highest concentration of firms (22%) in Retail Trade and Services (21%) followed by the Agricultural Sector division with 12% of the region's employers.

The region is dominated by a large number of firms with less than five employees. These firms account for 66% of the firms in the area. However, in terms of employment, these firms account for only 17% of the total. The small to mid-size firms (5-49 employees) account for about 31% of all firms in the region and 44% of the total employment. Large firms, employing 39% of the region's workers, account for only 3% of the region's firms.







The Job Vacancy Survey Sample

The premier San Luis Valley Job Vacancy Survey was conducted from September 28th through October 3rd, 2001. The survey instrument, upon which the telephone questionnaire was based, was developed, tested, and enhanced to increase information available for analysis by the Workforce Research and Analysis office of the Colorado Department of Labor and Employment.

For the purpose of this report, all employers with five or more employees are referred to as the "sample universe." The sample universe accounts for approximately 83% of the total employment in the San Luis Valley. Employers with at least 50 employees are referred to as "large employers." They account for

about 47% of the employment in the sample universe. Firms employing five to 84 individuals are considered "small to mid-size employers," and account for 53% of sample universe employment. All Government establishments were included in the sample regardless of the number of employees.

For the small to mid-size employers, the survey was stratified by goods and service producing industries (*Table 1*). To achieve a solid representation from each industry group, 360 completed responses were required from each stratification. For industry groups containing less than 360 employers, a response rate of at least 50% was required. Attempts were made to contact all employers in the "large employers" category in the region.

| Table 1: Goods and Service Producing Industries | | | | | |
|--|--|--|--|--|--|
| Goods Producing Industries | Service Producing Industries | | | | |
| Agriculture, Forestry, and Fishing (except Agricultural Services) | Transportation, Communications, and Public Utilities | | | | |
| Mining | Wholesale Trade | | | | |
| Construction | Retail Trade | | | | |
| Manufacturing | Finance, Insurance, and Real Estate | | | | |
| | Services (including Agricultural) | | | | |
| | Public Administration | | | | |

Over the survey period a total of 413 employers, approximately 54% of the San Luis Valley employers in

the sample universe, responded to the survey. Out of these,

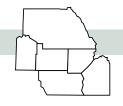
42 were large employers and 371 were small to mid-size employers. Eighty-eight percent were from the service producing and 12% from the goods producing industries.

The Survey Instrument

Employers were asked if they had job vacancies, or open positions, which they were actively seeking to fill. About 14% of the firms contacted reported at least one vacancy. Firms actively recruiting were then asked to provide more detail about each position. Information on compensation offered, the level of education and experience required, and the employer's perceived difficulty in filling the vacancy as well as length of time the position had been open was collected.

Whenever necessary, employers were contacted again to clarify responses.

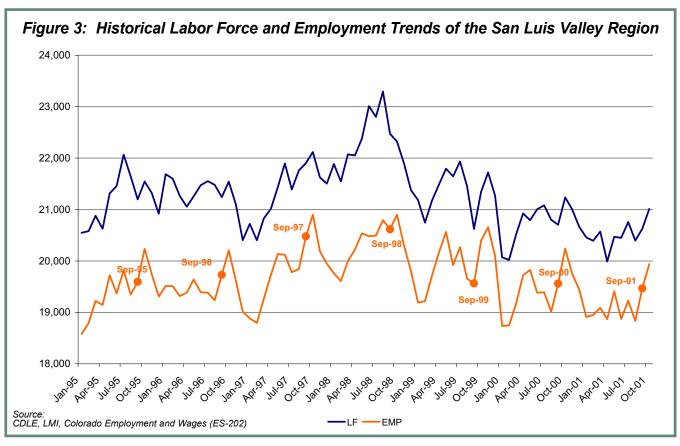
Employers were also asked whether or not a sign-on bonus or health insurance was offered for the position. This information was collected in addition to the minimum and maximum wages offered to describe in more detail the compensation offered.

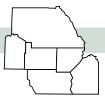


Timing Considerations

The timing of the survey was developed with the intent of measuring demand for labor at intervals that provide the most useful information.

Analysis of historical employment trends for the San Luis Valley indicates that employment is at its lowest levels in January and peaks in September. The San Luis Valley JVS is conducted once a year, in September, to measure demand for labor as total employment is at its highest levels (*Figure 3*). A study of any labor shortage during the survey timing may indicate specific occupation groups where shortages may exist, but it may also indicate a generalized labor shortage.

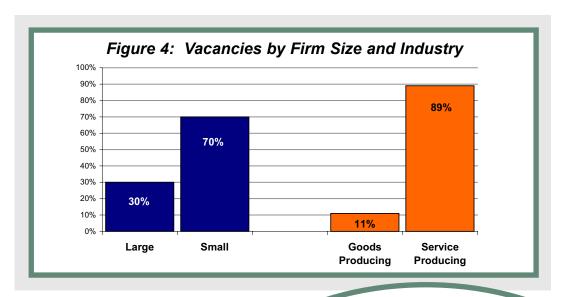




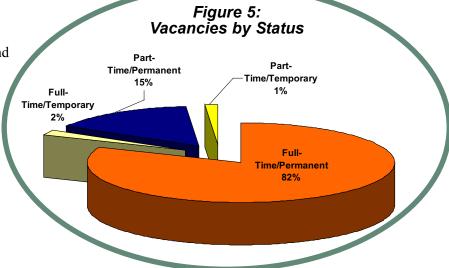
Estimated Vacancies

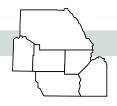
uring the survey period, an estimated 270 vacancies were open for immediate hire in firms with at least five employees in the San Luis Valley. This estimation is derived from vacancy rates reported for actual employment levels and extrapolated to the total employment for the appropriate industry divisions. Vacancy rates by industry group provide information reflective of where the activity is occurring in the local labor market. Higher vacancy rates tend to indicate a more dynamic labor situation than other industries. Rapidly growing industries, those in turmoil for some reason (financial, labor strife, reorganization, etc.), and those employing people

in occupations with high turnover rates, can all have relatively high vacancy rates. All might experience comparatively greater hiring stress, but might well have significantly different priorities as they evaluate new talent. According to the survey, small to mid-size firms, comprising approximately 53% of the region's total employment, account for 190 of the estimated vacancies while large employers account for the remaining 80 vacancies. Also, service producing industries, with 88% of the region's total employment, account for 89% of the estimated vacancies while goods producing industries account for the remaining 11% of the vacancies (*Figure 4*).



Eighty-two percent of the reported vacancies are full-time, permanent and 15% are part-time, permanent positions. Two percent of the vacancies are full-time temporary while 1% are part-time temporary (*Figure 5*).



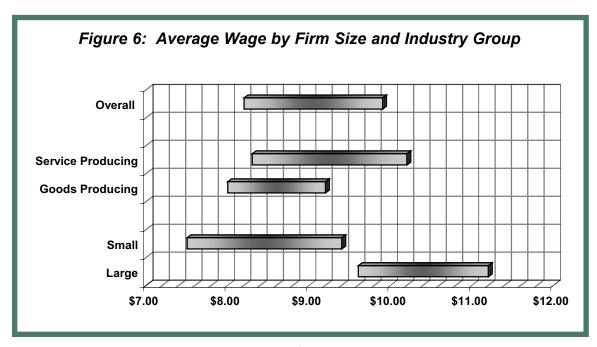


Vacancies and Wages

since wages offered may vary with the level of education and experience of the applicant, employers were asked to provide the range of wages offered for the vacancies and the average was

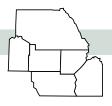
calculated based on the mid-point of that range. Based on the information employers reported, analysis reveals the following (*Figure 6*):

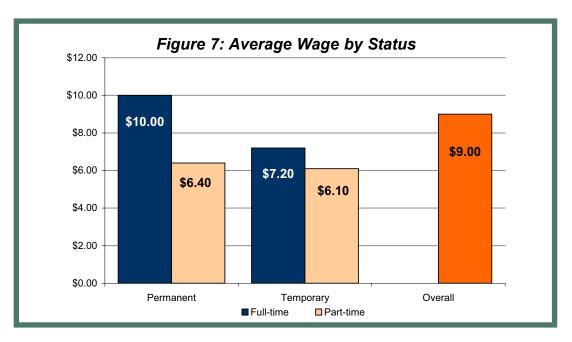
- ◆ The overall average wage offered for all vacancies is \$9.00 per hour.
- ◆ The average minimum wage offered for all vacancies is \$8.20 and the average maximum is \$9.90 per hour.
- ◆ Thirty-two percent of the vacancies offer a wage rate higher than the overall average.
- ◆ Approximately 82% of the positions for which wages are lower than the overall average are in the service producing industries.
- ◆ Eighty-one percent of the vacancies offering wages above the overall average are in the service producing industries.



Large companies reported wages that average approximately \$2.00 an hour higher than those offered

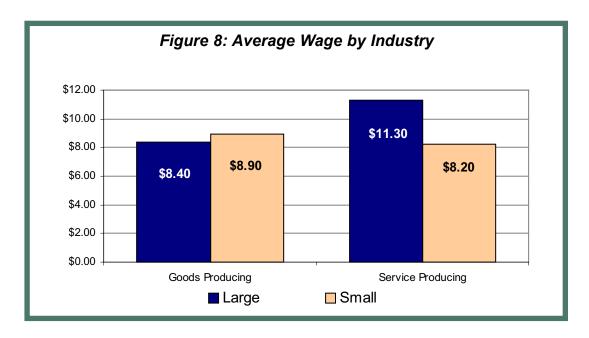
by small to mid-size firms. The wage differential prevails at both the minimum and maximum wage levels.





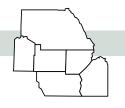
Permanent positions pay over \$1.50 on average more per hour than temporary positions. Average wages are consistently higher for permanent vs. tem-

porary positions regardless of the positions full or part-time status (*Figure 7*).



Large service producing firms pay close to \$3.00 over the average wage paid by large goods producing firms. On the other hand, small goods producing

firms pay on average \$0.70 over what small service producing firms offer.

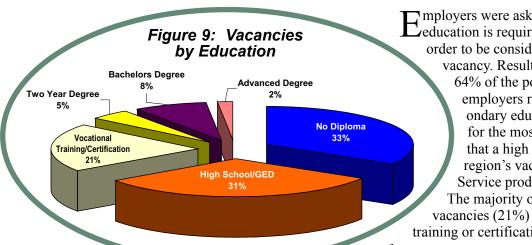


Education and Experience Requirements

mployers' education and experience requirements are as follows:

- ◆ The majority of positions requiring no diploma (88%) require no experience of any form.
- ◆ For positions at the high school diploma/GED level, 79% of employers are seeking to hire people with no experience or just general work experience.
- ◆ Positions requiring vocational training or certification are fairly distributed among all experience levels.
- ◆ Eighty-one percent of vacancies requiring a twoyear degree also require related experience or experience in the specific occupation.
- ◆ The majority of positions that require at least a bachelor's degree also require higher levels of work experience.

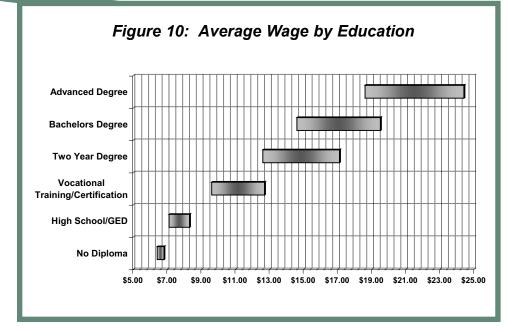
Education and Wages

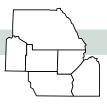


Employers were asked what level of education is required of an applicant in order to be considered for a particular vacancy. Results show that about

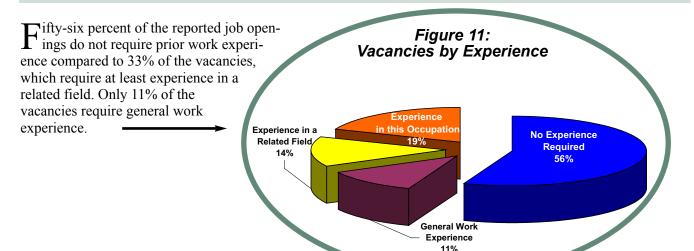
64% of the positions reported by employers require no post-secondary education. This is due, for the most part, to the fact that a high proportion of the region's vacancies are in the Service producing industries. The majority of the remaining vacancies (21%) require vocational training or certification.

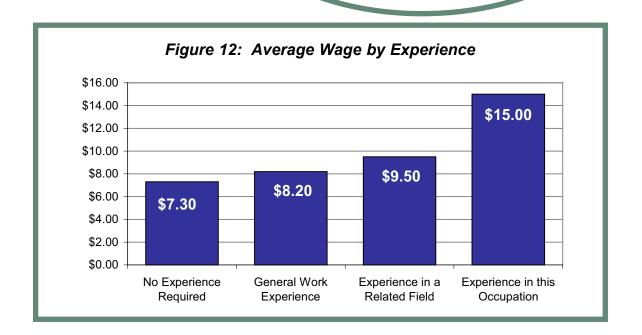
Employers add a substantial premium to wage compensation when requiring higher levels of educational attainment (Figure 10). The highest average wage rate difference (\$4.40 per hour) is found between having an advanced over a Bachelor's degree. There is also an increase of nearly a \$3.50 per hour for those with a vocational training or certification over those with a high school diploma/GED. In addition to increasing average wages, the range broadens with increasing levels of education. -





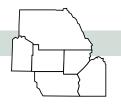
Experience and Wages





As with increasing levels of education, employers are willing to offer premiums for added experience. Vacancies requiring only general work experience offered on average approximately \$1.00 per hour more than those requiring no experience of any form.

Employers requiring high levels of experience within the occupation are willing to offer an additional \$5.50 per hour on average above the average wage for vacancies only requiring experience in a related field.



Medical Insurance and Wages

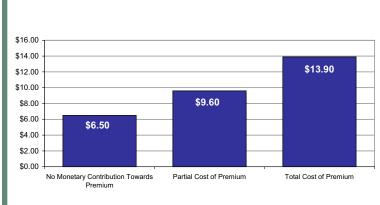
Pearly all of the vacancies reported by employers include some form of medical insurance. Employers offer to pay the entire premium for 29% of all vacancies reported and a portion of the premium for 67% of the vacancies. Only 4% of the vacancies reported do not offer any payment towards the medical insurance payment.

Figure 13: Employer's Contribution to Medical Insurance Premium

Total Cost of Premium 29%

Partial Cost of Premium 67%

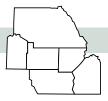




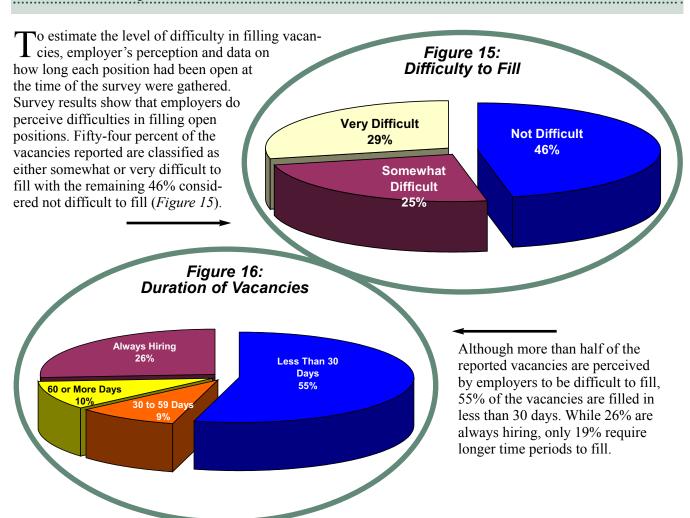
Survey results reveal a positive relationship between wage and medical insurance coverage offered (*Figure 14*). As higher paying jobs require higher levels of education and experience, employers offer better medical insurance packages to attract qualified candidates. Businesses that pay the total cost of the medical insurance premium offer an average wage of \$13.90 per hour for the reported vacancies. Positions where no monetary contribution is offered towards the insurance premium pay an average wage of \$6.50 per hour. The majority of these positions are either sales or production related occupations.

Survey results also reveal the following:

- ◆ Over 93% of the vacancies for which employers offer to pay at least a portion of the medical insurance premium are full-time permanent positions.
- ◆ Large employers account for 47% percent of the vacancies offering to pay at least partial cost of the medical insurance payment while small employers account for the remaining 53%.
- ◆ Service producing industries account for 79% of the vacancies offering at least partial cost of the premium.

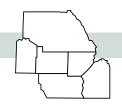


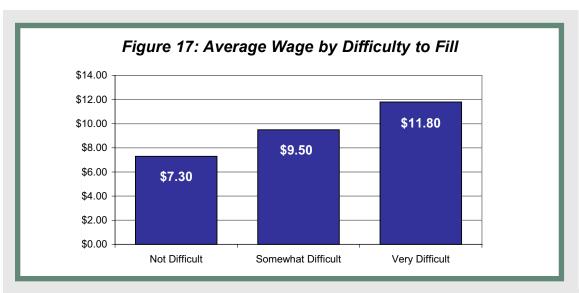
Difficulty to Fill



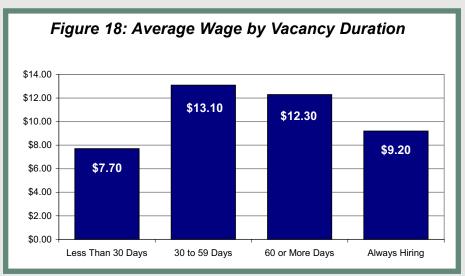
Comparing wage information to responses about how difficult a job is to fill shows two key points:

- 1. Positions for which employers offer higher wages tend to be more difficult, and take longer to fill. Most likely this could be due to the training and skills required to fill these positions.
- 2. Jobs for which lower wages are offered tend to be filled quickly if the wage offered is around the market average. Positions that pay significantly less than the average are typically more challenging to fill.



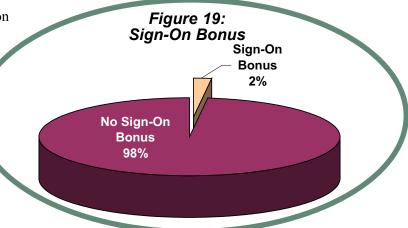


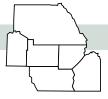
Employers offer wages for positions perceived to be very difficult and somewhat difficult to fill that are approximately \$1.80 and \$0.50, respectively above the overall average wage of \$9.00. Vacancies open for continuous hire offer an average wage of \$9.20 per hour (*Figure 18*). The majority of these vacancies are in the service producing industries.



Sign-On Bonus

of all vacancies reported, 2% offer sign-on bonuses (*Figure 19*). All vacancies for which a sign-on bonus is offered are in service producing industries.

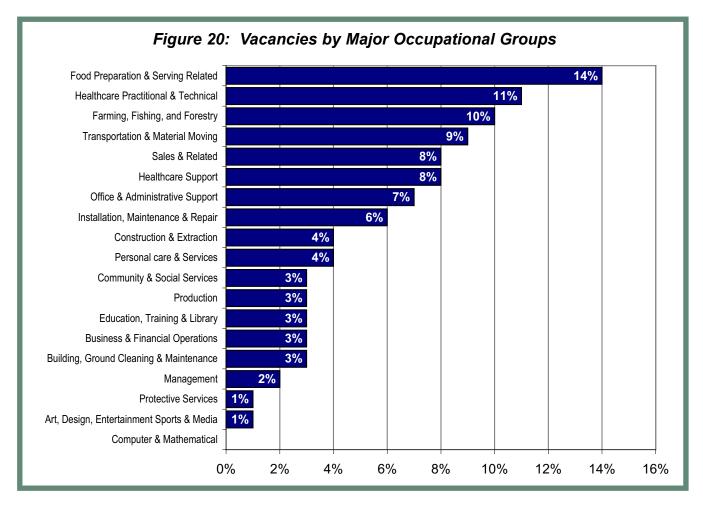




Occupations

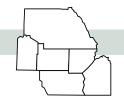
he number of vacancies varies greatly among major occupational groups. Out of the 23 major occupational groups, nineteen are reported to

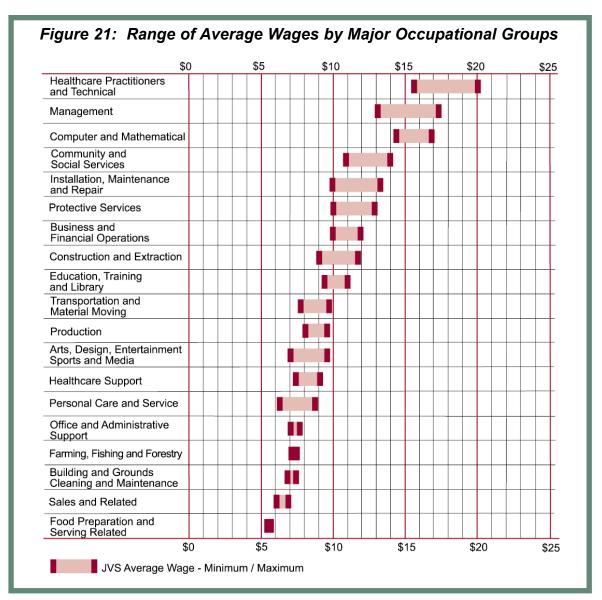
have vacancies. More than half of the estimated vacancies are reported in the top five major occupational groups in *Figure 20*.



Employers reported 142 different occupations with at least one vacancy. The average number of job openings per occupation is 4. About 20% of all occupations are above the average while the remaining 80% are at or below the average number of vacancies per occupation.

Occupational groups with high levels of educational requirements such as Healthcare Practitioners & Technical, Management, as well as Computer and Mathematical, offer the highest wages. Wages for these occupational groups also have a wider range between the minimum and maximum offered (*Figure 21*).

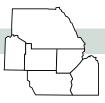




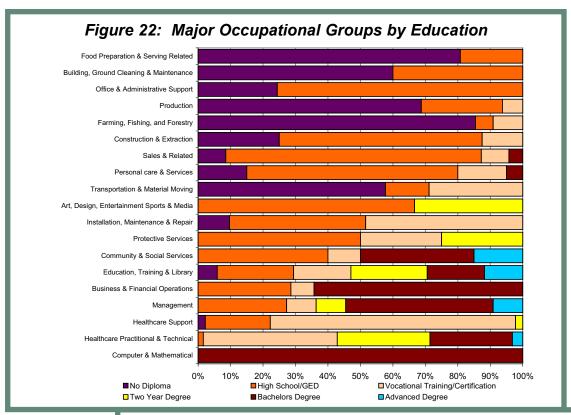
Lower wages with less variation between the minimum and maximum are offered for major occupational groups with the least educational requirements. Such groups include Food Preparation & Serving Related, Building and Grounds Cleaning and

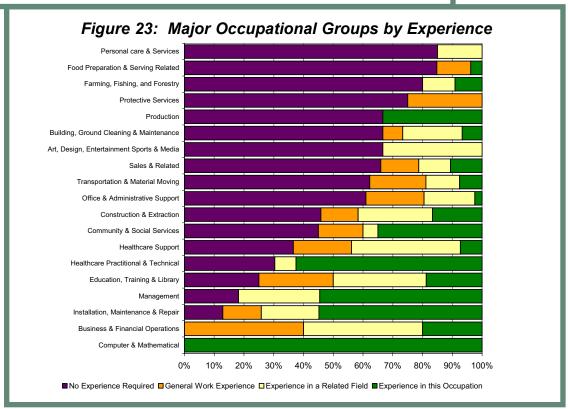
Maintenance, Personal Care & Service, Sales & Related, and Farming, Fishing and Forestry.

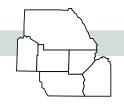
Almost 40% of the vacancies reported are in the top ten occupations (*Table 2*). Furthermore, 71% of the openings are in the top 25% of the occupations listed.

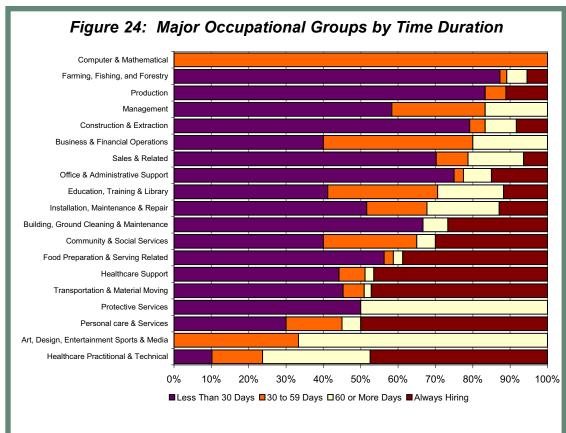


Requirements by Major Occupational Groups









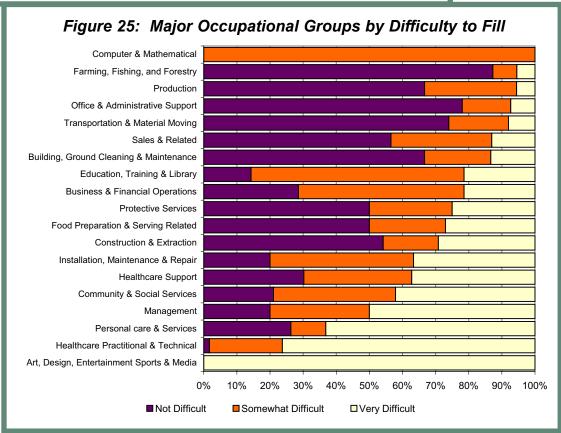


Table 2: Occupations with 5 or More Vacancies -

| | | | Occupational Employment Statistics Wage Data (aged to 2000) | | | | | | | 1 |
|---------|--|-----------------------|---|---------|---------|---------|---------|---------|---------|---------|
| soc | | Reported Number of | Average Wages Percentile Distribution Entry- Experience | | | | | | | |
| Code | SOC Occupation Title | Vacancies | Level | Overall | | 10th | 25th | 50th | 75th | 90th |
| 53-7064 | Packers and Packagers, Hand | 22 | \$5.91 | \$7.09 | \$7.68 | \$5.55 | \$5.98 | \$6.68 | \$8.10 | \$9.78 |
| 45-2041 | Graders and Sorters, Agricultural Products | 16 | \$5.96 | \$7.59 | \$8.40 | \$5.71 | \$6.30 | \$7.24 | \$8.60 | \$10.13 |
| 39-9021 | Personal and Home Care Aides | 10 | \$6.33 | \$7.25 | \$7.71 | \$5.85 | \$6.78 | \$7.38 | \$7.98 | \$8.35 |
| 35-3021 | Combined Food Preparation and Serving Workers, Including Fast Food | 9 | \$7.08 | \$12.16 | \$14.70 | \$6.76 | \$7.58 | \$9.22 | \$13.25 | \$24.75 |
| 29-1111 | Registered Nurses | 7 | \$15.06 | \$19.86 | \$22.26 | \$14.44 | \$16.44 | \$19.07 | \$21.64 | \$27.59 |
| 43-5081 | Stock Clerks and Order Fillers | 7 | \$6.77 | \$9.45 | \$10.79 | \$6.18 | \$7.24 | \$8.23 | \$10.27 | \$16.11 |
| | Nursing Aides, Orderlies, and Attendants | 6 | \$6.35 | \$8.02 | \$8.86 | \$5.92 | \$6.87 | \$7.83 | \$8.82 | \$10.65 |
| 35-2010 | | 6 | \$5.88 | | | - | | \$7.29 | | \$8.83 |
| 37-2012 | Maids and Housekeeping Cleaners | 6 | \$5.84 | \$6.51 | \$6.85 | \$5.40 | \$5.74 | \$6.31 | \$7.16 | \$8.29 |



Table 3: Occupations with Fewer Than 5 Vacancies -

| | Occupational Employment Statistics Wage Data | | | | | | | | | |
|---------|---|---------|----------|-------------|-------------------------|---------|---------|---------|---------|--|
| | | | verage W | ages | Percentile Distribution | | | | | |
| SOC | | Entry- | | | | | | | | |
| Code | SOC Occupation Title | Level | Overall | Experienced | 10th | 25th | 50th | 75th | 90th | |
| 35-3031 | Waiters and Waitresses | \$5.83 | | | \$5.43 | \$5.86 | \$6.56 | \$8.49 | \$9.91 | |
| 41-2031 | Retail Salespersons | \$5.90 | \$8.18 | \$9.32 | \$5.67 | \$6.28 | \$7.36 | \$8.48 | \$12.07 | |
| 21-1019 | Counselors, All Other | | | | | | | | | |
| 21-1020 | Social Workers | \$10.26 | \$14.28 | \$16.31 | \$9.57 | \$11.45 | \$13.67 | \$16.73 | \$20.62 | |
| 21-1021 | Child, Family, and School Social Workers | \$9.78 | | | \$9.16 | \$11.16 | \$13.59 | \$16.62 | \$20.46 | |
| 41-2010 | Cashiers | \$5.88 | \$7.80 | \$8.75 | \$5.51 | \$5.93 | \$6.63 | \$8.35 | \$14.34 | |
| | Compliance Officers, Except Agriculture, | | | | | | | | | |
| 13-1041 | Construction, Health and Safety, and Transportation | \$9.54 | | | \$9.06 | \$9.88 | \$13.65 | \$15.96 | \$18.84 | |
| 13-2082 | Tax Preparers | \$7.33 | \$14.03 | | \$6.83 | \$8.19 | \$11.23 | \$17.52 | \$22.19 | |
| 27-3020 | News Analysts, Reporters and Correspondents | \$6.72 | \$8.45 | \$9.32 | \$6.21 | \$7.09 | \$8.05 | \$9.84 | \$11.69 | |
| | First-Line Supervisors/Managers of Office and | | | | | | | | | |
| 43-1011 | Administrative Support Workers | \$9.24 | \$14.17 | \$16.63 | \$8.19 | \$10.46 | \$13.90 | \$16.93 | \$20.69 | |
| 43-3021 | Billing and Posting Clerks and Machine Operators | \$6.81 | \$10.38 | \$12.16 | \$6.31 | \$7.62 | \$9.78 | \$12.41 | \$16.67 | |
| 43-4051 | Customer Service Representatives | \$7.79 | \$10.60 | \$12.01 | \$7.22 | \$8.56 | \$10.02 | \$12.31 | \$15.25 | |
| 43-4171 | Receptionists and Information Clerks | \$7.03 | \$9.46 | \$10.68 | \$6.57 | \$7.56 | \$9.18 | \$11.55 | \$12.91 | |
| 47-4051 | Highway Maintenance Workers | \$8.97 | \$11.37 | \$12.57 | \$8.46 | \$9.87 | \$11.56 | \$12.92 | \$14.10 | |
| 51-7099 | Woodworkers, All Other | \$7.33 | \$9.99 | \$11.32 | \$7.06 | \$7.81 | \$9.23 | \$11.78 | \$14.47 | |
| 11-3011 | Administrative Services Managers | \$12.25 | \$19.98 | \$23.85 | \$11.72 | \$12.88 | \$15.60 | \$22.46 | \$33.40 | |
| | Education Administrators, Preschool and Child Care | | | | | | | | | |
| 11-9031 | Center/Program | \$7.79 | \$12.54 | \$14.92 | \$7.44 | \$8.10 | \$13.59 | \$16.21 | \$18.92 | |
| | Substance Abuse and Behavioral Disorder | | | | | | | | | |
| 21-1011 | Counselors | \$7.84 | \$10.22 | \$11.41 | \$7.48 | \$8.15 | \$10.45 | \$12.28 | \$13.23 | |
| 25-3099 | Teachers and Instructors, All Other | | | | | | | | | |
| 25-4031 | Library Technicians | \$6.10 | \$8.94 | \$10.36 | \$5.89 | \$6.70 | \$8.21 | \$11.28 | \$13.43 | |
| 29-1060 | Physicians and Surgeons | \$36.46 | \$53.89 | \$62.60 | \$33.07 | \$37.58 | \$57.59 | \$67.59 | \$72.62 | |
| 29-1126 | Respiratory Therapists | \$13.92 | | \$18.37 | \$12.89 | \$14.69 | \$17.14 | \$19.47 | \$20.87 | |
| 31-2021 | Physical Therapist Assistants | \$13.68 | | \$16.17 | \$12.44 | \$14.15 | \$15.43 | \$16.71 | \$18.34 | |
| 35-2021 | Food Preparation Workers | \$5.88 | | | \$5.55 | \$6.02 | \$6.87 | \$8.42 | \$10.91 | |
| 35-3020 | Fast Food and Counter Workers | \$6.47 | \$8.78 | | \$6.07 | \$6.59 | \$7.56 | \$9.61 | \$14.94 | |
| | Janitors and Cleaners, Except Maids and | · | | | | | | | | |
| 37-2011 | Housekeeping Cleaners | \$5.98 | \$8.20 | \$9.31 | \$5.71 | \$6.49 | \$7.93 | \$9.66 | \$11.14 | |
| 39-9099 | Personal Care and Service Workers, All Other | \$6.91 | \$9.78 | | \$6.37 | \$7.37 | \$8.66 | \$11.55 | \$15.06 | |
| 43-3071 | Tellers | \$5.84 | \$7.59 | \$8.47 | \$5.63 | \$6.31 | \$7.56 | \$8.96 | \$10.03 | |



Occupational Employment Statistics Wage Data Average Wages Percentile Distribution Entry-SOC Overall Experienced Level 10th 25th 50th 75th 90th Code **SOC Occupation Title** 43-4071 File Clerks \$6.61 \$9.60 \$11.10 \$6.13 \$7.21 \$9.14 \$11.78 \$13.43 Police, Fire, and Ambulance Dispatchers \$10.15 \$10.56 \$9.29 \$12.51 43-5031 \$9.31 \$8.76 \$10.08 \$10.91 43-5071 Shipping, Receiving, and Traffic Clerks \$5.98 \$8.12 \$9.19 \$5.65 \$6.10 \$6.83 \$10.17 \$12.62 **Executive Secretaries and Administrative Assistants** 43-6011 \$9.84 \$12.85 \$14.36 \$8.70 \$10.93 \$12.39 \$14.66 \$18.02 \$12.03 43-9022 Word Processors and Typists \$10.02 \$11.36 \$6.88 \$11.18 \$11.95 \$12.73 \$13.19 Insurance Claims and Policy Processing Clerks 43-9041 \$10.98 \$14.50 \$16.26 \$9.92 \$12.42 \$15.12 \$16.77 \$17.66 47-2051 Cement Masons and Concrete Finishers \$12.93 \$11.34 \$15.30 \$17.28 \$10.13 \$15.37 \$17.17 \$20.05 Electrical and Electronic Equipment Mechanics, Installers, and Repairers, All Other (OES Only) 49-2099 \$7.81 \$10.00 \$11.10 \$7.23 \$7.57 \$8.13 \$8.69 \$19.52 49-3020 Automotive Technicians and Repairers \$8.58 \$13.87 \$9.08 \$10.55 \$19.51 \$12.11 \$8.03 \$15.02 Bus and Truck Mechanics and Diesel Engine \$15.27 49-3031 Specialists \$8.73 \$12.44 \$18.55 \$12.82 \$14.87 \$7.78 \$9.90 49-3050 Small Engine Mechanics \$10.66 \$9.71 \$11.23 \$12.59 \$7.96 \$9.76 \$7.40 \$8.36 Maintenance and Repair Workers, General \$7.24 \$8.60 \$13.36 \$16.40 49-9042 \$7.78 \$11.34 \$13.12 \$11.09 51-3092 \$11.71 \$12.90 \$15.40 Food Batchmakers \$6.70 \$10.04 \$6.09 \$7.28 \$9.18 Welders, Cutters, Solderers, and Brazers \$11.67 51-4121 \$8.49 \$10.61 \$7.79 \$9.08 \$10.46 \$12.21 \$13.47 Truck Drivers, Light or Delivery Services 53-3033 \$7.68 \$12.23 \$14.51 \$8.81 \$11.53 \$14.64 \$16.97 \$6.77 53-6099 Transportation Workers, All Other \$25.54 \$9.10 \$15.01 \$17.96 \$8.92 \$9.97 \$12.73 \$19.50

\$8.19

\$9.95

\$10.82

\$7.53

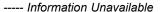
\$8.74

\$9.77

\$10.97

\$12.97

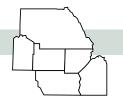
Table 3: Occupations with Fewer Than 5 Vacancies- Page 2



Industrial Truck and Tractor Operators

53-7051





Methodology

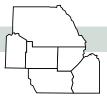
Survey Instrument and Redesign

The Job Vacancy Survey was initiated in the Denver Metro area by Arapahoe/Douglas Works! through funding from the Employment and Training Administration in cooperation with Labor Market Information. The Denver Metro pilot studies were conducted along with pilot studies in five other metropolitan areas across the nation. As a result of the success of the Denver Metro Job Vacancy Survey, the Colorado Department of Labor and Employment initiated a plan to expand the studies across the entire state.

After the first two Denver Metro pilot studies, the survey instrument was evaluated and redesigned. In choosing questions, considerations were made regarding various forms and gradations. Decisions were made to address the core of what was required in order to stay within the defined limits. The survey was expanded not only to state the purpose of the survey, but also to collect employer information; verifying addresses, number of employees, and establishing contact names. Email and fax numbers were added to provide a means of contacting employers for notification of the availability of survey results. A review of the survey questions follows:

- **A**–The "Job Title" section remained relatively the same, although a definition of Full- versus Parttime was included.
- B—"Number of vacancies for which your firm is actively recruiting:" The objective was to get a measure of the job market from the employer's point of view. A variant of this question was, "Number of vacancies that your firm currently has." Actively recruiting was queried due to the possible presence of vacancies that were deliberately left vacant. Also revised was the query for Permanent vs. Temporary identification.
- C-The "Wages/Salary" question was revised to request the maximum and the minimum rates of pay to evaluate variations in pay given different applicant qualifications.

- **D**—"Is a sign-on bonus offered to the person hired to fill this vacancy?" In addition to noting whether or not a bonus is offered, the revised survey allows a dollar amount to be entered.
- E—"Is medical insurance offered?" In addition, the revised survey prompted for the portion (if any) that the firm contributed. To better understand the relationship between types of positions, pay, vacancies, and the existence of medical insurance, it was important to note to what degree the firm contributes to the insurance premium.
- F—"What is the typical education level required to fill this vacancy?" Examination of the nature of the job market and the needs of employers included the query of educational requirements.
- G—"What is the typical type of experience required to qualify for this vacancy?" This also adds to the characteristics that employers are looking for in applicants. It was important to expand this question, allowing the firm to note the nature of the experience requested. During times of excess labor supply, qualifications demanded of applicants tend to increase. During periods of limited supply, the reverse tends to occur.
- H—"How long has this vacancy been open?" This question was added to the revised survey to gauge the tightness of the labor market. It provides an objective measure that can be tracked and compared across time.
- I—"How difficult is this vacancy to fill?" Questions H and I together help to evaluate the challenges employers face in the timely hiring of personnel and the degree to which the supply of labor falls short of demand.



Survey Sample Methodology

This survey is designed to find frequency of job vacancies in the San Luis Valley region and characteristics of those vacancies. Firms were ordered into groups, or stratifications by employment size and industry, and the resulting percentages of vacancies for each category were used to estimate total job vacancies for each group. Only firms with five or more employees were surveyed. The list of firms used for this survey, with their contact information, staff size and industry classification was obtained from the American Labor Market Information System (ALMIS) database.

The survey was conducted by telephone. In some cases copies of the survey form were faxed to employers upon request.

Stratifications

Employers with at least 50 employees are referred to as "large employers." They account for about 39% of the employment in the sample universe. Firms employing between 5 and 49 individuals are considered "small to mid-size employers," and account for the remaining 61% of the sample universe employment. Attempts were made to contact all large and government employers. The small to mid-size employers were then stratified into Goods producing and Service producing industries based on the 1987 Standard Industrial Classification Manual. The lists of small to mid-sized employers were randomized and a sample of sufficient size to achieve a predictable level of accuracy for the estimates of job vacancies was taken.

Data Editing

After data collection was completed, a few measures were taken to prepare data for analysis.

Data Cleaning

In cases where a job title was reported without a number of vacancies associated with it, it was assumed that only one vacancy was open for hire. However, this vacancy was used only in calculation of total number of vacancies with no further break down such as full-time or part-time, etc.

Occupational Coding

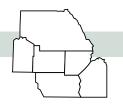
Job title and descriptions were used to match the vacancy with the appropriate Standard Occupational Classification. In some cases a second interview with the employer was necessary to decide on a specific occupational title.

Wage Conversion

Standard conversions were used to convert salaries into hourly wages: 2,080 hours for annual salaries, 173.3 hours for monthly salaries.

All wages below the minimum wage level were adjusted upwards to \$5.15 per hour. When necessary employers were contacted a second time for more information on questionable wages.

Average wages are calculated based on the midpoint of the reported minimum and maximum that employers were offering to fill a vacancy at the time of the survey.



Definitions

Annual Salary

The monetary return for one year's work. The definition does not include benefits (*e.g.*, insurance, retirement program, or stock plans).

Average

The arithmetic average (also called the mean) for a group of items is defined as the sum of the values of the items divided by the number of items.

Full-time and Part-time Employment

To be classified as full-time employment a position must require a minimum of 35 hours of work a week. Part-time employment refers to cases where a position requires less than 35 hours of work a week.

Job Vacancy Rate

Is the number of openings in a specific occupation expressed as a share of total employment in that same occupation.

Level of Education

Refers to completed programs of work. High school diplomas, associate, professional, vocational, bachelors, and graduate degrees all are examples of programs of work.

Medical Insurance Premium

Refers to the monthly payments that a holder of an insurance policy pays in order to keep his/her policy current.

Mid-Point

For the purpose of this survey, the Mid-Point refers to the wage halfway between the average minimum and average maximum wages as reported by survey respondents.

Permanent and Temporary Employment

Employment is classified as permanent if it will be filled for more than six months. Temporary employment on the other hand refers to those positions which will be filled for six months or less.

Sample Frame

The set of employers randomly chosen for the survey from the whole population of employers. Since vacancies and employment data were the central objectives of the survey, the sample frame was designed to allow necessary representation in those categories.

Sign-on Bonus

An additional financial incentive offered by a firm to new employees in order to influence their decisions to agree to employment with that firm. The bonus, for purposes of this survey, is a monetary lump sum.

SOC

The 1998 Standard Occupational Classification (SOC), with 822 detailed occupations, reflects the current occupational structure in the United States and was designed to provide a universal classification system. All federal agencies that collect occupational data will adhere to the new SOC. Information on the 1998 SOC, including its occupational structure, is available online.

Internet: http://stats.bls.gov/soc/soc home.htm.

Source: *Occupational Outlook Handbook*, 2000-01 Edition, U.S. Department Of Labor, Bureau of Labor Statistics, January 2000.

Vacancy

An established position that is currently unfilled for which the firm is actively recruiting to fill. The definition does not include positions that are anticipated, but not yet created.

Wage

The monetary return per hour of work. The definition does not include benefits (*e.g.*, insurance, retirement program, or stock plans).