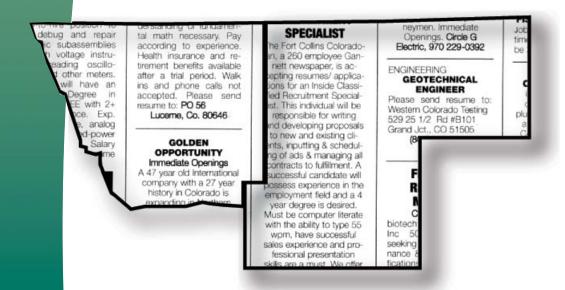
arimer Veld Job Vacancy Survey



December 2002 **Larimer and Weld Counties**







Larimer/Weld Job Vacancy Survey

Conducted October 1–18, 2002

State of Colorado

Bill Owens, Governor

Colorado Department of Labor & Employment

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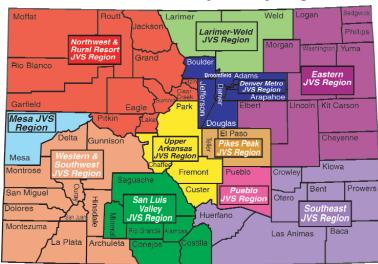
Introduction

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 supply and 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. Employers have had an equally difficult time determining appropriate compensation levels due to a limited knowledge of what similar firms in their region are currently offering.

Job seekers and employers, as well as
Workforce Centers and economic developers
need more than a measure of demand for workers at a specific point in time. They also need a
measure of where in the economy that demand is located and what education and experience levels are most
preferred. The Colorado Department of Labor and
Employment (CDLE) developed the Job Vacancy
Survey (JVS) to meet this need. The JVS is designed to
provide a snapshot estimate of job vacancies along with
detailed information and analysis on accompanying
wages, skill requirements and work experience.

The CDLE's survey unit collects original data by conducting phone interviews with a representative

Colorado Job Vacancy Survey Regions



sample of employers in a given region. The department's economists analyze the raw data, estimate the number of vacancies in the area and publish the report within weeks of the original data collection, providing a timely portrait of the employment situation.

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

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How to Use This Report

with 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, employees, job seekers, trainers, and planning officials. While Labor Market Information (LMI) provides data on the local labor force supply, the Job Vacancy Survey complements this by providing information about the demand for labor and offers a more complete picture of local labor markets.

Employers

The Job Vacancy Survey measures the area's current vacancies along with education and experience requirements. This report can serve as a strategic planning tool in the following areas:

♦ Employee Recruitment—

If findings indicate that employers have had positions open for a significant period of time, and compensation is sufficient, one might deduce a shortage of applicants in the area. Therefore, recruitment efforts could be focused outside of the region in areas where the necessary skills are more likely to be found.

♦ Employee Training—

A firm may also choose to increase investment in training for their current employees instead of expanding recruitment efforts.

♦ Compensation and Benefits Planning—

The Job Vacancy Survey provides wages offered for surveyed job openings. Tables in this report also detail current wages by occupation from Occupational Employment Statistics data. Together these pieces of information can be used to develop wage guidelines for compensation practices.

♦ New Site Selection—

Employers considering relocating or expanding to the area can study the survey and determine how easily the company's employment needs will be met by reviewing current vacancies. Companies need a sufficient, qualified labor pool to operate. High labor demand within a particular industry segment along with indications of difficulty filling these positions should caution a firm requiring a similar labor profile.

Job Seekers

The Job Vacancy Survey provides job seekers with a broad view of which industries are hiring, which occupations are in demand along with currently offered salaries and benefits, and what education and experience levels are required. This report is a roadmap that can be used to determine where the best paying jobs are given an individual's skills and level of education. Job seekers can also use Labor Market

Information's occupational projections, which provide a long-term outlook of occupational demand, along with the survey, which illustrates the current level of demand in the local job market to determine how current employment opportunities can contribute to their long-term career goals. Career minded individuals can tailor education, training, and work-experience to fit future high-demand positions.

Workforce Centers

The Job Vacancy Survey is designed to aid Colorado's Workforce Centers and other job placement organizations. As Workforce Centers serve job seekers and employers, the report acts as a handy reference for information on current vacancies, position requirements, wages and benefits offered, seasonal employment trends, and dominant regional industries. Workforce Center representatives can increase placement success by directing job seekers toward high demand occupations and industries.

Public officials, educational institutions, and Government agencies can use this survey information to effectively apply resources to education, training, and job placement programs.

While this report is a picture of the area's current employment needs and historical seasonal patterns, other Labor Market Information products provide projections of occupational growth and anticipated openings (www.coworkforce.com/lmi/oeo/oeo.htm). The projections highlight growing as well as declining occupations. 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.

Economic Developers

EJob Vacancy Survey to track the labor situation in key industries and evaluate the area's economic growth and development potential. The survey results help determine where 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 survey, and where the local market is trending using Labor Market Information's employment projections.

Caveats

The Job Vacancy Survey statistics are indicators of the demand for workers in the region and should not be interpreted as actual values. We rely on information from surveyed companies to obtain a representative sample of institutions and the occupations that fuel them. Not all surveyed firms participate; however, the employers who do participate enable the production of statistically reliable results.

The study provides estimates of job openings for a point-in-time; they do not necessarily portray the distribution of job vacancies in the region. This report does not attempt to explain the cause of vacancies—whether these current vacancies are due to actual growth or to job turnover in an occupation. Readers should also keep in mind that the authors are not attempting to project the level of vacancies into the future. Be aware that events having occurred since the time period analyzed such as plant closings or the migration of people in and out of the area might

significantly affect the vacancy status of some occupations. Job openings are very dynamic – current openings are being filled, new positions are being created, and some roles are being phased-out.

Occupational demand is subject to seasonal changes and affected by business cycles. For example, the reader would want to be aware that a decrease in vacancies for construction workers from April to November could represent seasonal variations, not necessarily a long-term decrease in the demand for such workers. When several years of survey data have been collected, we may be able to identify patterns that more accurately reflect changing labor market conditions. Regional surveys are timed to make these comparisons possible.

Given the caveats, appropriate application by the user is a key element in this report being a useful tool for job vacancy analysis.

Executive Summary

he fall 2002 Larimer/Weld Job Vacancy Survey was conducted from October 1st through 18th, 2002. The goal of the survey is to provide current information on the demand for workers so that employers, job seekers, economic developers, educators and workforce centers can make informed decisions in the Larimer/Weld Region.

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 1,954 employers representing 52% of the region's employment responded to the survey. Out of these, 51 are large employers (200 or more employees), 88 are Government agencies, and 1,815 are from the small to mid-size category (5 to 199 employees). The survey had an effective response rate of 84% and a cooperation rate of 99%.

The major findings of the survey are as follows:

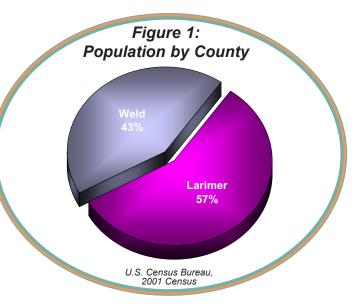
- ♦ It is estimated that a total of 2,020 jobs were open for hire in the Larimer/Weld Region during the survey period compared with 2,870 one year ago.
- ♦ Eleven percent of the employers responding to the survey reported having at least one vacancy compared to 16% from the fall of 2001.
- ♦ Almost 50% of the reported jobs open are in the small to mid-size firms category. About 33% are in large firms, while the remaining 18% are in Government.
- ♦ The proportion of full-time vacancies dropped from 80% in the fall of 2001 to 59% in this survey.
- ♦ The overall average wage reported is \$11.60 per hour compared to \$15.00 last fall. The decrease in the average wage could be due to the change in the mix of occupations reported and is not an indication of a drop in the region's overall wages.
- ♦ Fifty-four percent of the vacancies require postsecondary education. Candidates with vocational training or certification are highest in demand.
- ♦ Employers are seeking higher levels of experience to fill vacancies. Eighty percent of the vacancies require a minimum of experience in a related field compared to 57% a year ago.
- ♦ Only 46% of the openings are reported as either very difficult or somewhat difficult to fill compared to 65% last fall.
- ♦ Fewer employers are offering to pay the total cost of medical insurance premium this year compared to last fall, however, this decrease was completely offset by the increase in the proportion of employers offering partial payment to the medical insurance premium.

Larimer/Weld Region

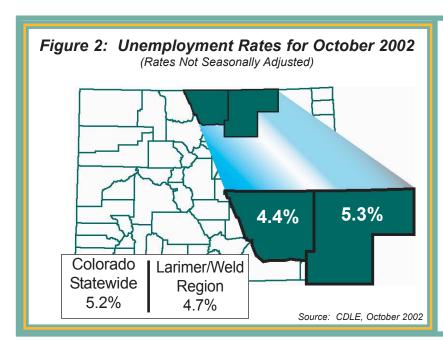
The Larimer/Weld Region, located in north central Colorado encompasses a total of 6,644 square miles. The region, made up of Larimer and Weld counties, has a population of more than 454,000 residents¹. Larimer County, with 2,640 square miles, includes some of the finest irrigated farmland in the state, as well as vast stretches of scenic ranch lands, forests and high mountain peaks. Weld County on the other hand, covers an area of 4,004 square miles, making it the third largest county in the state. The land surface is fairly level in the east, with rolling prairies and low hills near the western border.

The regional economy is a diverse mix of agriculture, advanced technology, manufacturing and service firms. Weld County is the leading producer of cattle, grains and sugar beets in the state. It is also the second leading producer of oil and gas in Colorado.

Larimer County accounts for 57% of the total regional population (about 259,500 residents) and grew at a rate of 35% over the 1990 to 2000 census period. This growth rate is almost 5 percentage points higher than the state's growth rate of 31% over the

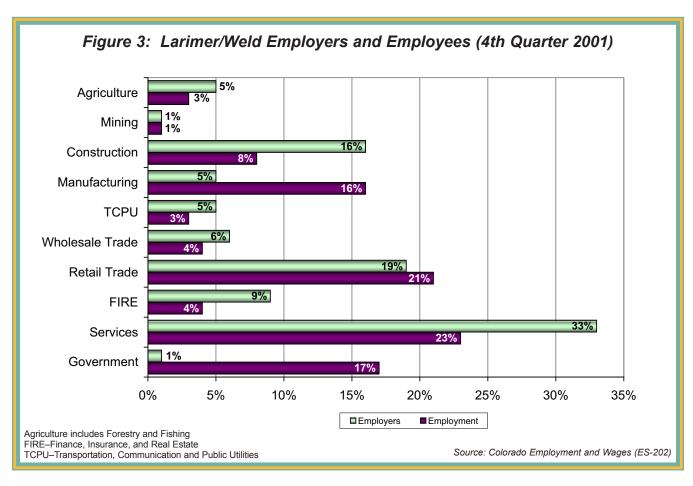


same period. Weld County accounts for 43% of the population and experienced a growth rate of 37%. This is 7 percentage points above the state's growth rate. Within the counties, almost half of the population in Weld is concentrated in the city of Greeley. In Larimer County 47% of the population is centered in the city of Fort Collins.



The region employed over 240,238 individuals from a labor force pool of about 246,000 people in October 2002. Of these 62% were employed in Larimer County. The region's unemployment rate of 4.8% is lower than that of the state and the U.S. rate of 5.7% reported by the Bureau of Statistics for October 2002.

Job Vacancy Survey



The ranking of employment by industry in the Larimer/Weld Region has remained stable over the past several years. Similar to the rest of the state, the region's Services division has the highest share of employment (23%) followed by Retail Trade (21%). Manufacturing of durable and non-durable goods combined accounts for 16% of the regional employment while Government agencies make up 17%. Other industries' portions of total employment range from 1% in Mining to 8% in Construction (*Figure 3*).

Although Weld County accounts for a smaller portion of the total employment in the region, the industry mix in the two counties is relatively similar. Fourth quarter, 2001 statistics reveal that both counties have the highest concentration of firms in the Services division followed by Retail Trade, Construction, and Finance, Insurance and Real Estate (FIRE). In Weld County the total number of individuals employed is

highest in the Services division, followed by the Manufacturing, Retail Trade, and Construction divisions. In Larimer County, employment is concentrated primarily in Services followed by Retail Trade, Manufacturing, and Construction.

The region is dominated by a large number of firms with less than five employees. Although these firms account for 62% of all firms in the region, they account for only 11% of the total employment. Small firms (5-49 employees) make up about 34% of both the number of firms and employment. Medium size firms (50-199), with close to 3% of the regional firms, account for almost 20% of employment. Large firms and Government entities each make up less than 1% of the firms in the region. Large firms account for 22% of total employment, while Government agencies account for 14% of the total employment.

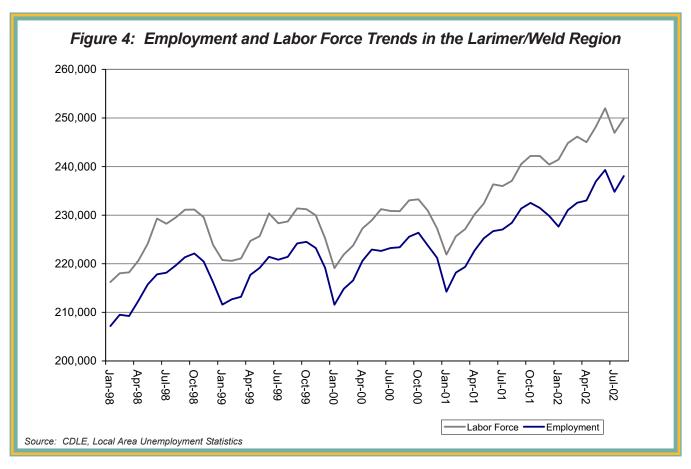


Figure 4 illustrates the historical progression of the region's labor force and employment over time. The labor force and employment levels have increased since 1998. The figure also provides a visual representation of unemployment over time. Unemployment is represented by the gap between the labor force and employment lines. In other words, the larger the distance between the two lines, the greater the number of unemployed.

Analysis of historical employment trends for the Larimer/Weld Region also reveals a seasonal trend in the region's labor market. Both the labor force and employment levels are at their lowest in January and peak in October. The Job Vacancy Survey is conducted semi-annually in spring and fall to measure demand for labor when employment is strong.

The Job Vacancy Survey Sample

The fall Larimer/Weld Job Vacancy Survey was conducted from October 1st through October 18th, 2002. For the purpose of this report, employers with five or more employees (6,181 in the region) are referred to as the "sample universe." The sample universe accounts for approximately 88% of the total employment in the region.

The Job Vacancy Survey separates employers into either Government or private industry categories. Private firms are grouped by employment level into either large (at least 200 employees) or small to mid-size categories (5 to 199 employees). Small to mid-size firms are further divided by industry and randomly sampled until a representative sample is obtained for each industry. Attempts

are made to contact each large private employer and Government agency in the region.

Over the survey period a total of 1,954 employers, approximately 32% of the Larimer/Weld Region employers in the sample universe, responded to the survey. Out of these, 51 are large employers, 1,815 are small to mid-size employers, and 88 are Government agencies.

The effective response rate for the survey is 84% and the cooperation rate is 99%. The response rate measures how successful the survey is at collecting information from eligible employers. The cooperation rate measures how willing employers are to participate in the survey once they are contacted.

Table 1: Indus	stry Categories
	rnment
	Industry 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 Services)

Data Collection

Data for the Job Vacancy Survey are collected using a Computer Assisted Telephone Interview (CATI) process. While this system of data collection has been in use in the public sector for several years, Colorado is the first state in the nation to pioneer the use of CATI data collection for the Job Vacancy Survey.

Professional interviewers, trained in economic data collection processes, gather information from a call center located in the Colorado Department of Labor and Employment. This interview process results in increased control over the survey process, better accuracy, and dependable results.

Employers are asked if they have job vacancies or open positions which they are actively seeking to fill.

Those that are actively hiring are then asked to provide more detail about each position—compensation offered, levels of education and experience required, and the employer's perceived difficulty in filling the vacancy along with the number of days the position has been opened. Employers are also asked if sign-on bonuses and health insurance coverage are offered for these positions. These data are collected in addition to the minimum and maximum wages in order to describe more fully the compensation offered.

The survey is conducted so as to ensure the statistical integrity of this report. When necessary, employers are contacted a second time to clarify responses.

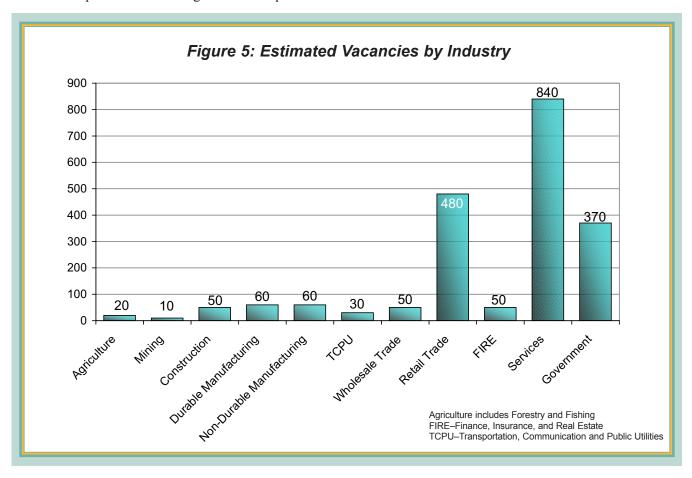
Vacancies: Industry, Size and Status

uring the survey period, an estimated 2,020 vacancies were open for immediate hire by firms with at least five employees in the Larimer/Weld Region. The overall area employment is estimated at approximately 180,700 individuals, resulting in an estimated vacancy rate of 1.12%.

Services and Retail Trade make up 66% of all vacancies in the region. Large firms employing at least 200 individuals in Services record the highest vacancy rate of 3.7%, while that for Retail Trade in the small to mid-size firms is 2%. These industry divisions also account for most of the area's total employment. They have experienced both growing and changing market conditions due to population growth and increasing technology. The most common vacancies in the Services division include: registered nurses; customer service representatives; and nursing aides, orderlies, and attendants. Sixty-two percent of the vacancies within the Services industry are healthcare positions while 37% of those in the Retail industry are Food Preparation and Serving Related occupations.

Government agencies account for 18% of the estimated vacancies. Arts, Design, Entertainment, Sports, and Media occupations as well as Building and Grounds Cleaning and Maintenance occupations have the most reported vacancies within Government. All remaining industries account for the remaining 16% of the estimated vacancies.

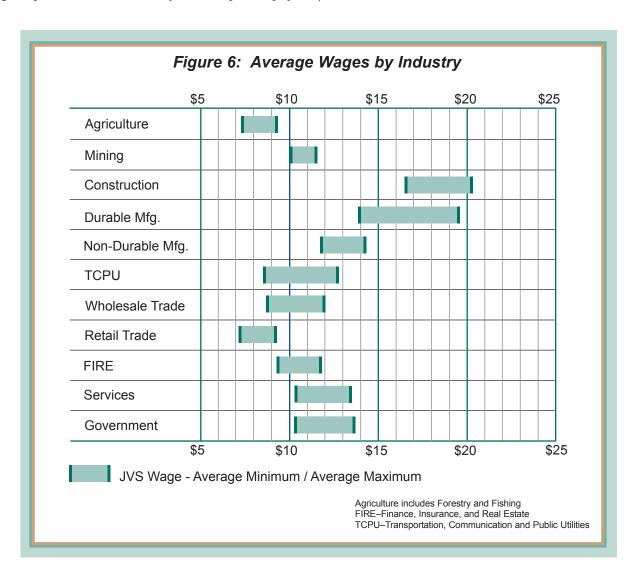
Eleven percent of all employers responding to the survey reported having at least one opening compared to 16% in the fall last year. Overall, there are 850 fewer vacancies in this survey than the fall survey of 2001. Reduced activity is seen across all industries except Non-Durable Manufacturing and Government. The largest declines are in the Services, Retail Trade and Construction industries. Government agencies reported 115 more vacancies compared to the fall 2001 survey. There is a slight increase in the number of estimated vacancies for the Non-Durable Manufacturing industry.



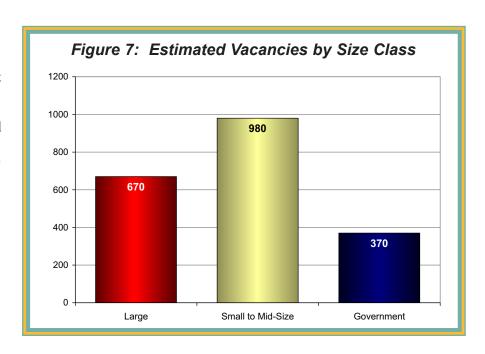
Since wages offered vary according to the individual applicant's education and qualifications, employers were asked to provide the range of wages offered for the open position (Figure 6). Wages reported for this study represent those offered by employers for current jobs available during the survey period. The overall average wage in the region is \$11.60 per hour compared to \$15.00 in the fall survey of 2001. This decline is not an indication that wages offered to vacant positions in Larimer/Weld have declined. A decline in the average wage could be due to factors such as the type of occupation, the skills and knowledge required to fill the vacancy, and the philosophy

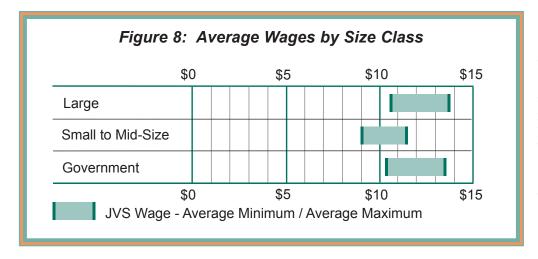
of the employer offering the position. Differences in these characteristics between open jobs reported in this survey and previous ones will influence the average wage reported.

In this survey wage information accompanied 80% of all reported vacancies. The highest average wages are offered in the Construction as well as Durable and Non-Durable Manufacturing industries. The top paying occupations in demand within these three industries are: human resources managers, marketing managers, architects, and construction managers.



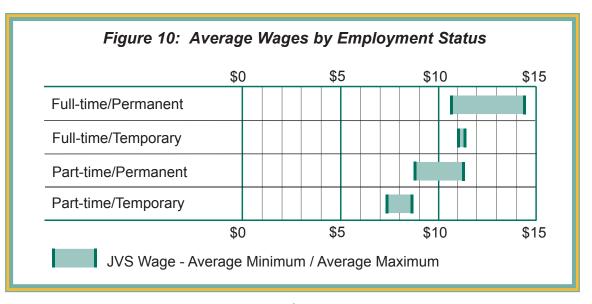
Small to mid-size firms account for almost 50% of all vacancies. These firms also account for 93% of all employers in the sample and 58% of the employment. Large firms, representing only 3% of the firms in the sample and 22% of the employment, account for 33% of the vacancies. Government on the other hand, makes up the remaining 4% of the employers, 20% of the employment and 18% of the open jobs.





As in the survey last fall, positions open with large employers offer the highest wages. These employers offer wages that average approximately \$2.00 per hour higher than those offered by small to mid-size firms. There is no significant wage difference between large and Government employers.

This survey shows a significant shift from full-time permanent to part-time permanent vacancies when Figure 9: Vacancies by compared with the fall 2001 survey. Between the Employment Status two surveys, full-time permanent vacancies dropped from 79% to 59% while part-time permanent vacancies increased from 12% to 40% of the reported vacancies. The Part-time/ shift in demand from full-time to part-**Permanent** time may be due to employers' desire 40% Part-time/ to cut expenses during uncertain eco-Temporary nomic conditions. It also may be the result of a change in the mix of the occupations in demand. Full-time, per-Full-time/ manent positions still represent the **Permanent** majority of job openings. The most cited 59% full-time occupations are: customer service representatives; registered nurses; and general maintenance and repair workers. The most cited part-time occupations are: registered nurses; coaches and scouts; and umpires, referees, and other sports officials. Both part-time temporary and full-time temporary positions constitute approximately 1% of the reported vacancies.



Full-time permanent positions usually set the overall average wage for an area. In this survey both full-time and permanent positions are the two major categories shaping the overall average wage offered in the area. The overall average wage of \$11.60 falls somewhere in between the \$12.50 average wage offered by full-time permanent and the \$10.10 average wage offered by part-time permanent vacancies. As

one would expect, results of this survey show job openings for permanent positions offer higher wages than temporary ones and full-time positions offer higher wages than part-time positions. The wider range in full-time permanent and part-time permanent categories stems from the higher concentration of vacancies in these two categories.

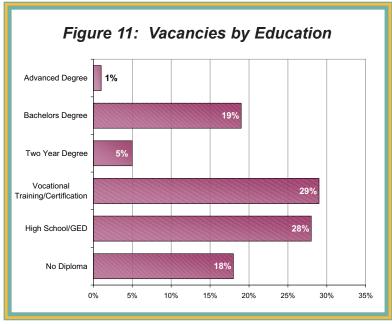
Vacancies: Education and Experience Requirements

During periods of high unemployment, a typical assumption might be that there are too many qualified candidates and too few job openings. The reality is that even in recessions there are many employers who cannot find qualified candidates to fill open positions. A region's overall labor force is made up of multiple smaller labor groups defined by skills, experience, and education. It is important, therefore, that job seekers have accurate information regarding what type of education and experience are in high demand.

Employers were asked what level of education is required of an applicant in order to be considered for a particular opening.

Twenty percent of the vacancies are found to require a minimum of at least a bachelor's degree. Only 5% of the positions require a two-year degree while an additional 29% require vocational training or certification. In this survey there is a noticeable decrease in vacancies requiring advanced and bachelor's degrees. These are offset by an increase in positions requiring two-year degrees or vocational training or certification.

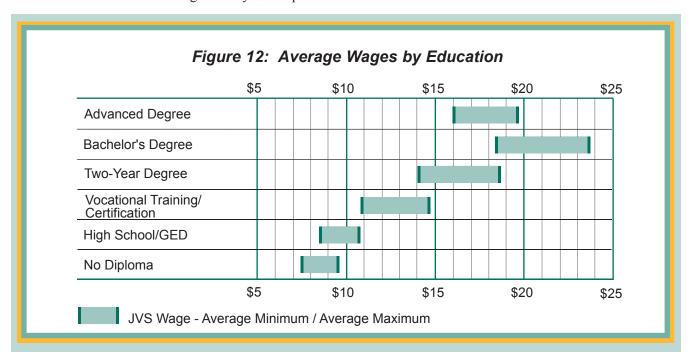
The most frequently cited vacancies requiring either a vocational training/certification or a two-year degree include: coaches and scouts; registered nurses; and nursing aides, orderlies, and attendants. Almost 60% of the vacancies requiring either a bachelor's or an advanced degree are registered nurse positions.



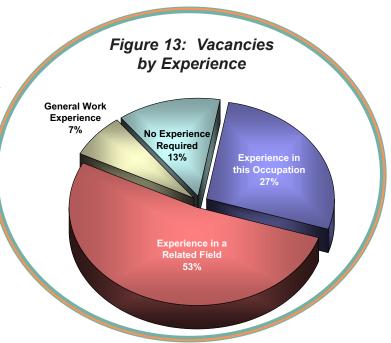
There are many opportunities for those with no postsecondary education. The survey shows 46% of the vacancies require a high school/GED or less. This reflects a slight decrease from the 51% reported for these two categories in last fall's survey. Occupations most cited in these categories include: customer service representatives; general maintenance and repair workers; and landscaping and groundskeeping workers. Workers in these categories are more likely to make use of on-the-job training for advancement in job status or for better positions within a company.

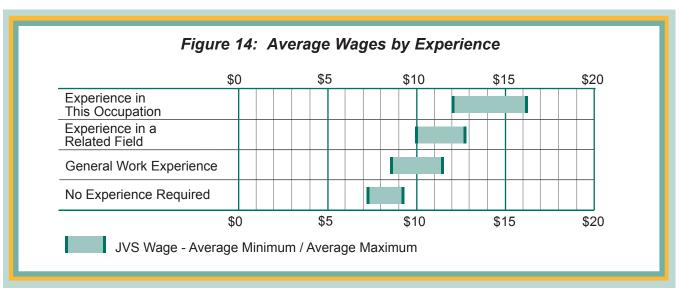
Generally, employers pay higher wages when requiring higher education levels (Figure 12). The highest average minimum wage rate difference (\$4.80 per hour) was found between having a two-year degree and completing a bachelor's. Job vacancies requiring a bachelor's degree offer wages more than twice as high as those requiring a high school diploma. The requirement of vocational training or certification increases the wage rate by \$3.00 per

hour from a high school diploma/GED. In addition to increasing average wage, the wage range broadens with increasing levels of education. The high concentration of lower paying teaching and librarian positions in the category of positions requiring advanced degrees brought down the average wage for this category to a level lower than that requiring bachelor's degrees.



Employers require the applicant to have experience in the occupation or a related field for 80% of all positions. In this survey, 20% of the reported job openings require either no prior experience or general work experience (*Figure 13*), while last fall this proportion was 43% of the reported openings.





As with the increasing levels of education, employers are willing to offer higher wages for job openings requiring more experience. Positions that require specific experience in the reported occupation offer on average \$2.60 per hour more than those requiring experience in a related field. Vacancies requiring expe-

rience in a related field or specific experience in the occupation are offering average wages that are significantly lower than average wages offered in the fall of 2001. The decline in the average wage offered may be due to shifts in the occupations in demand reflecting specific educational and experience requirements.

Generally, experience requirements will increase as educational requirements increase. In this survey, employers expressed higher demand for experienced workers at most educational levels. For positions requiring no high school diploma, the split of vacancies was almost identical between lower and higher levels of experience (*Table 2*).

Positions requiring an advanced degree are usually associated with a higher concentration of vacancies at a level requiring specific experience in the occupation. These are career occupations usually attained by completing high levels of education and experience gained in the field. For this survey, most vacancies requiring high levels of education and experience are teaching

positions. Sixty-five percent of the vacancies requiring a bachelor's degree and experience in a related field or experience in the specific occupation are for registered nurses.

In a tight labor market, employers may be willing to trade experience or education levels depending on the requirements of the position or the skills and abilities of the applicant. During an economic slowdown though, employers can demand higher levels of education and experience due to the increased number of job seekers available to work. In comparison to the fall of 2001, employers in this survey are seeking applicants with higher levels of experience even for vacancies that require only minimal education.

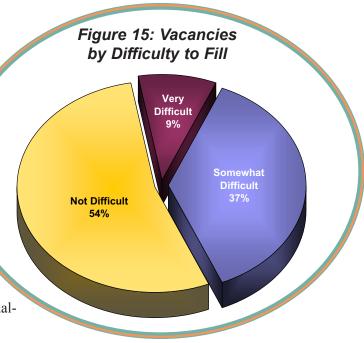
Table 2: Experie	ence Require	ements by E	ducational L	.evel	
	No Experience	General Work Experience	Experience in a Related Field	Experience in This Occupation	
No Diploma	45%	8%	42%	5%	
High School Diploma/GED	16%	15%	58%	11%	
Vocational Training/Certification	2%	3%	40%	54%	
Two-Year Degree	6%	7%	57%	30%	
Bachelor's Degree	1%	2%	76%	21%	
Advanced Degree	0%	0%	33%	67%	
Note: Percentages based on each edu	' cational category		I		1

Vacancies: Difficulty to Fill

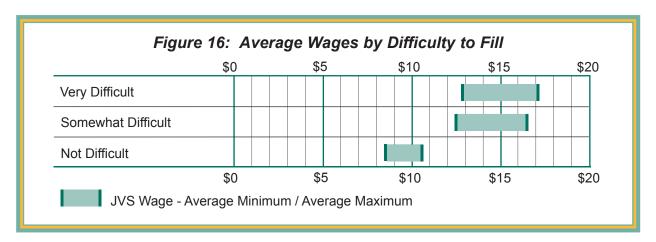
o estimate the level of difficulty in filling vacancies, employers were asked about their perceived level of difficulty in filling a job and the length of time that a position has been open. If a large proportion of open jobs in a region are difficult to fill, it may signal one or more of the following: too few specifically skilled workers to satisfy the labor demand, a need for alternate employer recruitment efforts, a mismatch between jobs offered and work desired by job seekers, or unattractive compensation.

Employers are having much less difficulty hiring now than they were in fall of 2001. Employers reported 54% of the vacancies as not difficult to fill, up from 35% in the fall of last year. While the proportion of job openings reported as somewhat difficult to fill remained virtually unchanged, positions considered very difficult to fill declined from 29% to only 9% of the reported vacancies between the two surveys.

Often positions considered difficult to fill are occupations for which the region is thought to have a shortage of trained individuals. Recently, skilled nurses have been the focus of attention due to a noticeable shortage in many regions across the state. In this survey, while nursing occupations are among the most



difficult to fill, they are not dominant among the difficult to fill group. Difficult to fill vacancies are found among higher paid positions such as senior level engineers, top executives, managers and supervisors, down to positions requiring limited education and experience such as janitorial workers, waiters, and waitresses.

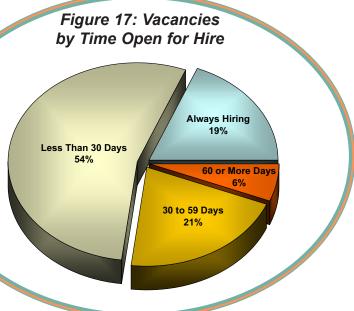


Positions considered not difficult to fill offer lower wages, as would be expected, than positions employers reported as difficult to fill. There is no significant

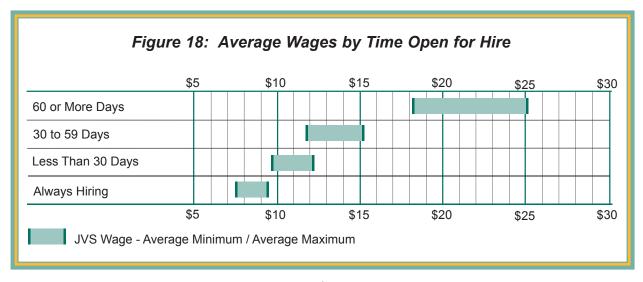
difference in the average wage found between positions that are somewhat difficult to fill and those reported as very difficult to fill. How long a vacancy is open is indicative of the degree of difficulty an employer is having in filling the position. Factors include the following: the availability of qualified candidates, competition among employers for similar candidates, and the willingness of candidates to accept job duties considering wages and benefits offered. Also, employers may allow more time to fill a vacancy in order to ensure the fit of the candidate with the organization, or because there may be a limited number of qualified applicants.

In this survey, 75% of vacancies were open for 59 days or less compared to 63% a year ago. Positions open for less than 30 days are ones that require lower levels of education and experience such as: truck drivers, heavy and tractor-trailer; retail salespersons; and combined food preparation and serving workers, including fast food. The majority of the positions open for 30 to 59 days are for registered nurses while the majority of those open for 60 or more days are civil engineers. Only 6% of the vacancies were open for 60 or more days down from 11% in the fall 2001 survey.

Vacancies reported as always open are, generally, entry-level positions requiring differing educational levels. These are occupations mostly in the Services



and Transportation, Communications and Public Utilities (TCPU) industries with average wages mostly below the overall average. They include low skilled occupations such as customer service representatives, stock clerks, and order fillers although positions such as nursing assistants and others in healthcare occupations are included here as well.



The survey found that positions open for longer periods of time often have a higher associated wage. Positions open for 60 or more days offer the highest wages and the widest range of wages. This is in line with the idea that many of these positions require specialized skills and experience making employers more willing to offer higher compensation.

Vacancies: Additional Compensation

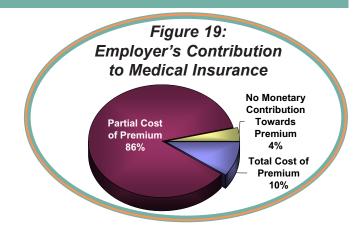
Medical Insurance

Imployers frequently offer compensation related benefits to recruit qualified candidates. These may include paid time off, transportation, or parking vouchers. One of the most common benefits offered to employees is medical insurance through an employers group plan. Employers may pay all or part of the monthly insurance premium for their employee. In this survey, 86% of reported vacancies include some form of medical insurance.

Eighty-six percent of the vacancies providing medical insurance also offer partial payment towards the insurance premium. Another 10% offer to pay the total cost of the insurance premium, while only 4% offer no monetary contributions.

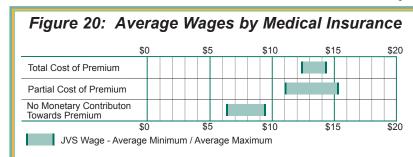
Sixty five percent of positions associated with a partial contribution to the medical insurance premium are full-time; registered nurses form the majority. This group also contains a considerable presence of lower skilled occupations such as: customer service representatives; umpires, referees, and other sports officials; and general maintenance and repair workers.

Compared to last fall, the number of job openings offering to pay the total cost of the medical insurance premium



decreased from 23% to 10%. This decrease was completely offset by an increase in the percentage of positions offering to pay partial cost of the medical insurance premium. The number of positions offering no contribution towards the medical insurance premium held steady at 4%.

Generally, it would be expected that as higher paying jobs require higher levels of education and experience, employers offer better medical insurance packages to attract qualified candidates.



In this survey, positions offering no monetary contribution towards the medical insurance offer the lowest average wage of \$7.90 per hour. While vacancies offering payment of total cost of the premium also offer the highest average hourly wage of \$13.30, vacancies with partial premium payments offer a wider range between the average minimum and maximum wages offered.

Sign-On Bonus

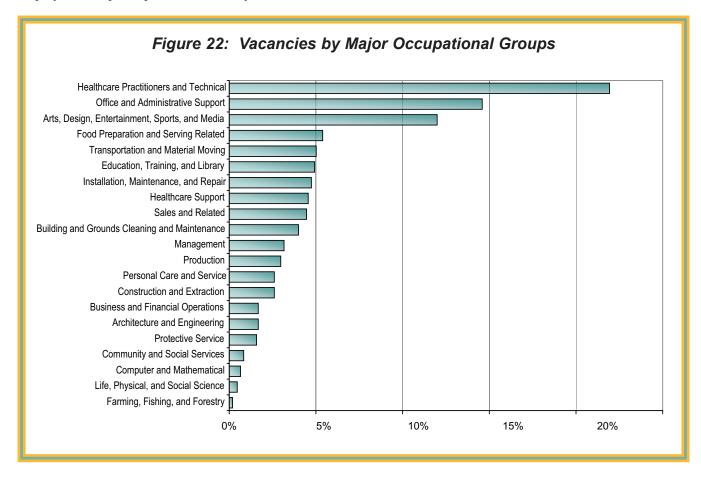


Sign-on bonuses became popular lore in the 1990s when a tight labor market existed in many occupations. It is unclear whether the actual size and frequency of sign-on bonuses deserve the hype. For this survey, sign-on bonuses accompany only 1% of the reported vacancies. The average bonus is \$1,000.

Occupations

The Job Vacancy Survey is intended to provide useful and current information to job seekers and employers and help them make informed decisions when seeking employment and hiring. Estimating the number of overall vacancies in a region and breaking those numbers down by categories such as industry and size provides a useful overview of the demand for labor. When it comes down to filling a particular opening, the more detailed the information the better. Reporting vacancies at the individual occupation level is as detailed as the survey can be without breaking confidentiality with those employers who participated in the survey.

In order to help make comparisons between the results of this survey and other sources of employment statistics, all reported vacancies are assigned an occupation code and occupational group based on the 2000 Standard Occupational Classification Manual published by the Executive Office of the President, Office of Management and Budget. Results are reported by major occupational groups. The Standard Occupation Classification (SOC) system contains 821 detailed occupation titles that fall into 23 major occupational groups.



Vacancies found in this survey were coded into 21 of the 23 major occupational groups. Not surprisingly, the most frequently occurring job openings fall into occupational groups most often associated with the largest industries in the region: Services and Retail Trade.

Healthcare Practitioners and Technical occupations has the highest proportion of vacancies for this fall survey, while last fall, the highest proportion of vacancies was found in Food Preparation and Serving Related occupations. This survey shows higher demand for Arts, Design, Entertainment, Sports, and Media in addition to Transportation and Material Moving occupations compared to last fall. The least demanded occupations are Farming, Fishing, and Forestry; Life, Physical, and Social Science; and, most surprisingly, Computer and Mathematical after years of high demand.

Survey results show that major occupation groups with the most vacancies are not necessarily the groups offering the highest wages. This indicates that vacancy characteristics other then the level of unfilled employer demand influence wages. The groups offering the highest wages in this survey include: Architecture and Engineering: Life, Physical, and Social Science: Healthcare Practitioners and Technical; Community and Social Services; as well as Computer and Mathematical. These occupational groups also require higher levels of education and experience. 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 and Serving Related; Building and Grounds Cleaning and Maintenance: Sales and Related; and Farming, Fishing, and Forestry.

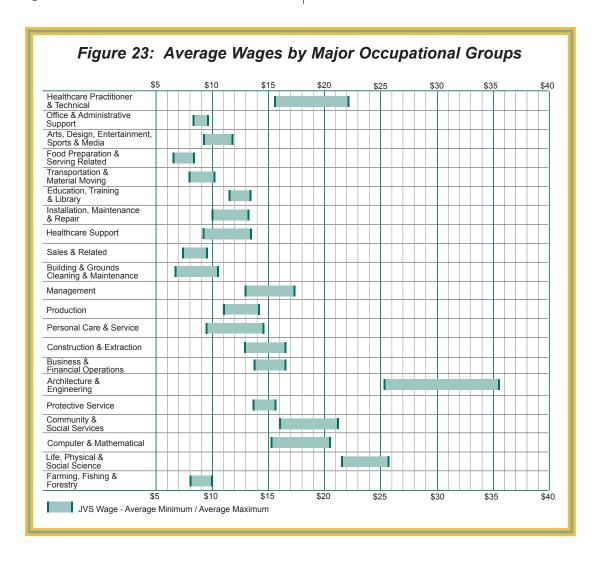


Table 3 contains a list of all of the detailed SOC job titles that were assigned to vacancies reported in this survey. Because a census of large employers and Government agencies is conducted, the list contains titles for nearly all of the vacancies available at the time of the survey for those employers. Almost one-third of all small to mid-size employers were contacted for the random sample, so the list also includes occupations reported by those employers. Given the large size of the random sample collected, the list of occupations should be fairly comprehensive; however, it is not exhaustive. Most likely, if a different random sample had been drawn there would be some differences in the job titles reported, but there would also be many of the same.

Vacancy Rank

Vacancies are ranked based on the total number of vacancies reported for each occupation. The top 25% are ranked as high demand because they are the most frequently occurring vacancies. The bottom 25% are ranked as low demand and the medium demand vacancies include everything in-between.

Average JVS Wage

The average wages found in the survey are also reported for each occupation. The reported averages

are based on information provided by employers and do not reflect information not gathered in the survey or wages paid to currently filled positions. Wage information in this survey was provided for almost 70% of reported vacancies.

Occupational Employment Statistics Wage Data

Occupational Employment Statistics (OES) wage data are also provided for each occupation. OES data are based on a national survey of employers and refer to filled positions, not vacancies. The data provided here are reported for Larimer and Weld counties when available and statewide otherwise. Data were collected in 1999 and 2000 and aged to 2001 using the Employment Cost Index (ECI). A complete description of the OES survey and the ECI is available on the Internet at: http://www.bls.gov/.

While the Job Vacancy Survey average wages reflect what was being offered to fill vacancies at the time of the survey, OES wage data reflect what was being paid to filled positions. Together, these data provide employers and job seekers with a good indication of the compensation offered in the current job market.

Table 3: Job Vacancy Survey Occupations with OES Wages

				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Occu	pational	Employme	Occupational Employment Statistics Wage Data	tics Wage	Data	
				AV	Average wages	es		Perce	rercentile Distribution	IDUITION	
SOC	Management Occupations	‡ Vacancy Rank	Average JVS Wage	Entry Level	Overall	Experi- enced	10th	25th	50th	75th	90th
11-0000	Management Occupations		\$15.13	\$16.81	\$32.05	\$39.66	\$14.22	\$20.43	\$29.19	\$41.43	\$55.81
11-1011	Chief Executives	7	+	\$29.96	\$49.64	\$59.49	\$28.35	\$35.22	\$48.13	\$72.56	\$75.22
* 11-2021	Marketing Managers	٦	\$25.10	\$19.51	\$35.46	\$43.43	\$16.67	\$23.00	\$37.25	\$46.53	\$55.40
11-2022	Sales Managers	7	+	\$18.53	\$32.66	\$39.73	\$16.71	\$20.92	\$31.44	\$41.30	\$53.56
11-3011	Administrative Services Managers	٦	\$16.60	\$13.52	\$25.04	\$30.82	\$12.07	\$16.31	\$25.70	\$32.77	\$38.92
11-3040	Human Resources Managers	7	\$42.50	\$21.23	\$30.29	\$34.81	\$18.88	\$23.94	\$29.99	\$36.81	\$43.38
* 11-3071	Transportation, Storage, and Distribution Managers	٦	\$20.40	\$17.74	\$29.75	\$35.75	\$15.69	\$20.58	\$26.41	\$36.12	\$50.12
11-9021	Construction Managers	7	\$32.50	\$22.89	\$28.49	\$31.28	\$22.31	\$24.01	\$26.66	\$31.83	\$39.18
11-9033	_	_	\$14.90	\$17.25	\$29.23	\$35.21	\$15.37	\$19.44	\$25.17	\$35.44	\$46.57
11-9111	Medical and Health Services Managers	Σ	+	\$20.18	\$32.13	\$38.12	\$16.97	\$23.36	\$28.21	\$39.60	\$52.65
11-9199	_	Σ	\$10.10	\$16.93	\$29.66	\$36.02	\$15.07	\$20.17	\$27.63	\$37.63	\$48.62
13-0000	Business and Financial Operations Occupations		\$15.13	\$14.26	\$21.96	\$25.80	\$13.21	\$15.91	\$19.86	\$24.83	\$33.27
13-1071	Employment, Recruitment, and Placement Specialists	٦	\$12.00	\$13.51	\$18.95	\$21.68	\$12.41	\$15.02	\$17.38	\$22.55	\$26.87
13-1073	Training and Development Specialists	٦	\$12.90	\$11.26	\$17.60	\$20.77	\$10.08	\$12.88	\$16.19	\$21.55	\$27.58
13-1079	_	٦	\$23.10	+	+	+	+	+	+	+	+
13-2011	Accountants and Auditors	7	\$20.40	\$14.77	\$20.62	\$23.54	\$13.96	\$15.80	\$18.99	\$23.14	\$29.84
13-2041	Credit Analysts		\$16.10	\$12.72	\$17.86	\$20.44	\$12.18	\$13.37	\$16.04	\$19.67	\$25.82
13-2051	Financial Analysts	٦	\$16.80	\$21.35	\$29.78	\$33.99	\$19.78	\$22.72	\$28.68	\$34.80	\$42.93
13-2052	Personal Financial Advisors	٦	\$12.30	+	+	+	+	+	+	+	+
13-2072	Loan Officers	7	+	\$15.02	\$22.92	\$26.86	\$13.50	\$17.07	\$20.59	\$27.46	\$35.01
13-2099	Financial Specialists, All Other	٦	+	+	+	+	+	+	+	+	+
15-0000	Computer and Mathematical Occupations		\$17.78	\$11.72	\$25.29	\$32.08	\$9.04	\$14.61	\$25.12	\$34.43	\$42.25
15-1021	Computer Programmers	7	\$19.60	\$14.97	\$26.79	\$32.70	\$12.80	\$17.24	\$28.08	\$35.09	\$41.73
15-1032	Computer Software Engineers, Systems Software	7	+	\$26.96	\$35.31	\$39.48	\$24.41	\$29.59	\$34.41	\$41.68	\$48.87
15-1061	Database Administrators	7	\$10.80	\$16.03	\$23.69	\$27.51	\$14.97	\$17.66	\$23.00	\$29.80	\$34.30
15-1099	Computer Specialists, All Other	_	\$19.10	\$10.96	\$20.82	\$25.75	\$9.56	\$13.01	\$21.09	\$27.33	\$32.89
17-0000	Architecture and Engineering Occupations		\$30.28	\$16.97	\$27.63	\$32.95	\$15.03	\$19.55	\$26.53	\$34.63	\$42.64
17-1011	Architects, Except Landscape and Naval	7	\$32.50	\$18.67	\$26.70	\$30.71	\$18.36	\$20.67	\$26.62	\$32.84	\$36.99
17-2051	Civil Engineers	Μ	\$31.30	\$19.39	\$26.09	\$29.45	\$18.65	\$20.40	\$24.12	\$31.30	\$36.82
* 17-2199		_	\$22.80	\$23.15	\$34.06	\$39.50	\$21.27	\$26.41	\$33.52	\$41.56	\$49.18
17-3022	Civil Engineering Technicians	7	\$23.40	\$14.18	\$19.33	\$21.90	\$12.12	\$16.60	\$19.87	\$22.59	\$25.94
17-3029	Architecture and Engineering Occupations	_	+	+	+	+	+	+	+	+	+
19-0000	_		\$17.85	\$12.49	\$22.15	\$26.99	\$10.93	\$14.65	\$20.91	\$27.88	\$35.95
19-2031	Chemists	_	\$25.40	\$18.82	\$23.42	\$25.71	\$17.95	\$19.47	\$21.85	\$26.42	\$33.65
19-3051			\$18.40	\$18.51	\$23.89	\$26.59	\$17.74	\$20.00	\$23.15	\$27.44	\$32.84
21-0000			\$18.55	\$10.94	\$17.15	\$20.24	\$9.68	\$12.82	\$16.44	\$20.97	\$26.24
21-1021	Child, Family, and School Social Workers		\$12.70	\$13.79	\$17.35	\$19.13	\$12.67	\$14.67	\$17.07	\$20.13	\$22.19
* OES w	OES wages reported for Colorado statewide	‡ Vacancies are ranked based on the total number reported for each occupation.	e ranked b	ased on tl	ne total nu	mber rep	orted for	each occi	pation.		

OES wages reported for Colorado statewide No wage data available

Vacancies are ranked based on the total number reported for each occupation.

The top 25% are ranked as high demand because they are the most frequently occurring vacancies. The medium demand vacancies include everything between low and high demand.

The bottom 25% are ranked as low demand. **#**I∑_

Table 3: Job Vacancy Survey Occupations with OES Wages – Page 2-

				Occu	pational E	Occupational Employment Statistics Wage Data	int Statist	ics Wage	Data	
			Ave	Average Wages	es		Perce	Percentile Distribution	ibution	
SOC Code Management Occupations	‡ Vacancy Rank	Average JVS Wage	Entry Level	Overall	Experi- enced	10th	25th	50th	41 <u>5</u> 2	90th
21-1022 Medical and Public Health Social Workers	٦	\$20.00	\$13.58	\$17.80	\$19.92	\$12.47	\$14.61	\$17.01	\$20.72	\$25.22
21-1023 Mental Health and Substance Abuse Social Workers	_	\$17.90	\$11.20	\$13.65	\$14.86	\$10.41	\$11.61	\$13.21	\$15.66	\$17.74
21-1091 Health Educators	_	\$22.50	\$13.89	\$20.68	\$24.07	\$12.63	\$16.02	\$21.49	\$25.63	\$27.91
21-1092 Probation Officers and Correctional Treatment Specialists	٦	\$14.90	\$17.14	\$22.65	\$25.41	\$15.70	\$18.21	\$22.15	\$26.70	\$31.62
21-2011 Clergy	٦	+	\$11.13	\$17.95	\$21.36	\$9.92	\$12.79	\$17.47	\$21.53	\$28.25
25-0000 Education, Training, and Library Occupations		\$12.52	\$9.73	\$17.85	\$21.91	\$8.22	\$11.68	\$16.44	\$22.37	\$28.39
	٦	+	\$34,138	\$57,649	\$69,405	\$32,117	\$36,932	\$48,918	\$74,161	\$100,821
25-1022 Mathematical Science Teachers, Postsecondary	7	+	\$31,669	\$51,979	\$62,136	\$28,857	\$36,841	\$47,573	\$64,227	\$81,802
	٦	\$17.10	+	\$31,930	\$47,198	\$54,832	\$31,089	\$35,148	\$46,157	\$55,624
25-1121 Art, Drama, and Music Teachers, Postsecondary	7	+	+	\$32,758	\$51,659	\$61,114	\$30,433	\$38,716	\$49,832	\$62,069
25-1194 Vocational Education Teachers, Postsecondary	7	+	\$13.05	\$18.38	\$21.05	\$12.06	\$14.19	\$16.79	\$22.85	\$27.01
25-1199 Postsecondary Teachers, All Other	Σ	\$13.90	+	+	+	+	+	+	+	+
25-2011 Preschool Teachers, Except Special Education	7	\$9.10	\$7.85	\$9.43	\$10.23	\$7.44	\$7.98	\$8.87	\$10.33	\$11.57
25-2021 Elementary School Teachers, Except Special Education	_	+	\$28,252	\$39,909	\$45,738	\$26,091	\$30,628	\$37,523	\$46,895	\$56,711
25-2022 Education	Σ	\$15.70	\$28,463	\$37,764	\$42,415	\$26,139	\$30,104	\$35,662	\$44,544	\$53,843
Secondary School Teachers, Except Special and Vocational Education	Σ	\$14.90	\$27,843	\$41,162	\$47,821	\$25,830	\$30,595	\$38,025	\$50,411	\$59,205
25-2042 Special Education Teachers, Middle School	_	+	+	+	+	+	+	+	+	+
	_	+	\$29,628	\$40,689	\$46,203	\$27,115	\$32,057	\$39,632	\$47,846	\$56,222
25-3099 Education, Training, and Library Occupations	Σ	\$7.60	+	+	+	+	+	+	+	+
	Σ	\$14.60	\$14.38	\$19.24	\$21.67	\$13.41	\$15.79	\$18.89	\$22.44	\$26.41
25-4031 Library Technicians	٦	\$12.00	\$7.71	\$11.33	\$13.14	\$7.15	\$8.61	\$11.25	\$13.51	\$16.33
25-9031 Instructional Coordinators		\$14.20	\$10.71	\$20.84	\$25.91	\$9.80	\$11.79	\$19.48	\$26.82	\$38.48
* 25-9041 Teacher Assistants	Σ	\$7.50	+	+	+	+	+	+	+	+
27-0000 Arts, Design, Entertainment, Sports, and Media Occupations		\$10.51	\$8.98	\$17.67	\$22.00	\$7.74	\$10.57	\$15.74	\$21.50	\$31.63
27-1024 Graphic Designers	_	\$9.50	\$13.44	\$18.29	\$20.71	\$12.28	\$15.49	\$18.67	\$21.23	\$24.02
27-2022 Coaches and Scouts	I	\$9.60	16,430	24,033	27,834	15,188	16,060	17,512	29,998	45,073
* 27-2023 Umpires, Referees, and Other Sports Officials	Σ	\$10.80	\$19,659	\$25,585	\$28,554	\$18,444	\$20,230	\$22,440	\$27,869	\$41,881
27-2099 Entertainers and Performers, Sports and Related Workers, All Other		\$10.50	\$13,454	\$22,952	\$27,701	\$12,830	\$14,691	\$22,664	\$28,180	\$34,277
27-3042 Technical Writers	_	\$47.50	\$16.20	\$23.40	\$27.00	\$14.53	\$18.20	\$23.08	\$28.05	\$33.99
27-3091 Interpreters and Translators	_	\$15.20	\$10.81	\$15.58	\$17.97	\$9.87	\$11.89	\$14.24	\$19.51	\$23.63
_		\$18.91	\$13.35	\$23.32	\$28.30	\$11.92	\$15.35	\$20.04	\$26.08	\$36.09
	_	\$19.20	\$14.56	\$19.34	\$21.72	\$14.11	\$16.18	\$19.58	\$22.69	\$25.90
29-1051 Pharmacists	J	\$32.80	\$31.57	\$33.30	\$34.16	\$29.72	\$31.10	\$33.39	\$35.68	\$38.94
		d bankan	14	10404		C neg Poop	400			

OES wages reported for Colorado statewide No wage data available

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Vacancies are ranked based on the total number reported for each occupation.

The top 25% are ranked as high demand because they are the most frequently occurring vacancies. The medium demand vacancies include everything between low and high demand.

The bottom 25% are ranked as low demand.

Table 3: Job Vacancy Survey Occupations with OES Wages – Page 3

				Ave	Occupat Average Wages	pational E	Occupational Employment Statistics Wage Data Wages Percentile Distribution	ent Statist Percer	Statistics Wage Data Percentile Distribution	Data ibution	
SOC		‡ Vacancy	Average	Entry	9	Experi-					
Code	Management Occupations	Rank	JVS Wage	Level	Overall	enced	10th	25th	50th	75th	90th
29-1111	Registered Nurses	т	\$19.30	\$17.27	\$21.38	\$23.44	\$15.84	\$18.52	\$21.01	\$24.32	\$27.60
29-1123	Physical Therapists	_	\$24.10	\$21.32	\$24.77	\$26.50	\$19.72	\$22.62	\$25.05	\$27.32	\$29.24
* 29-1124	Radiation Therapists	٦	+	\$21.66	\$25.29	\$27.10	\$19.51	\$23.03	\$25.45	\$27.87	\$32.31
29-1126	Respiratory Therapists	Σ	\$17.60	\$14.57	\$17.73	\$19.31	\$13.63	\$15.40	\$17.89	\$20.37	\$21.87
29-1127	Speech-Language Pathologists	Σ	\$20.90	\$16.08	\$21.84	\$24.72	\$15.09	\$17.40	\$22.00	\$25.94	\$28.23
29-2011	Medical and Clinical Laboratory Technologists	Σ	\$18.00	\$16.95	\$21.31	\$23.48	\$14.47	\$18.72	\$21.54	\$24.91	\$27.39
29-2012	Medical and Clinical Laboratory Technicians	_	\$16.80	\$10.22	\$12.95	\$14.32	\$9.50	\$11.21	\$12.71	\$14.59	\$17.19
29-2032	Diagnostic Medical Sonographers	Σ	\$24.50	\$21.73	\$26.25	\$28.50	\$19.69	\$23.13	\$25.58	\$28.01	\$37.19
	Radiologic Technologists and Technicians	Σ	\$19.20	\$13.93	\$17.44	\$19.19	\$12.77	\$14.97	\$17.45	\$20.24	\$21.99
	Emergency Medical Technicians and Paramedics	٦	\$17.60	\$11.10	\$15.10	\$17.11	\$10.23	\$11.77	\$14.17	\$17.72	\$21.39
_	Dietetic Technicians	٦	\$11.80	\$6.63	\$9.95	\$11.61	\$6.16	\$7.21	\$9.31	\$12.26	\$14.54
	Surgical Technologists	٦	\$14.70	\$12.01	\$15.78	\$17.67	\$11.40	\$12.31	\$13.82	\$17.01	\$24.81
_	Veterinary Technologists and Technicians	٦	\$11.70	\$9.40	\$11.74	\$12.91	\$8.92	\$9.66	\$10.89	\$14.10	\$16.35
	Licensed Practical and Licensed Vocational Nurses	Σ	\$16.20	\$12.14	\$15.05	\$16.50	\$11.71	\$13.15	\$15.21	\$16.97	\$18.23
31-0000	Healthcare Support Occupations		\$11.32	\$7.81	\$10.30	\$11.55	\$7.52	\$8.44	\$9.87	\$11.52	\$14.06
	Home Health Aides	7	+	\$7.36	\$10.49	\$12.05	\$6.93	\$7.83	\$9.16	\$11.58	\$18.26
	Nursing Aides, Orderlies, and Attendants	Σ	\$10.00	\$7.88	\$9.42	\$10.19	\$7.52	\$8.15	\$9.13	\$10.68	\$12.23
_	Physical Therapist Aides	٦	\$10.30	\$8.24	\$11.72	\$13.46	\$7.80	\$8.72	\$10.23	\$13.25	\$20.10
	Medical Assistants	Σ	\$12.30	\$9.51	\$10.71	\$11.31	\$8.99	\$9.56	\$10.41	\$11.34	\$13.77
	Medical Equipment Preparers	Σ	\$11.10	\$9.20	\$11.46	\$12.60	\$8.52	\$9.65	\$11.07	\$13.00	\$14.34
	Medical Transcriptionists	_	\$15.20	\$12.13	\$14.00	\$14.94	\$11.55	\$12.42	\$13.87	\$15.86	\$17.14
	Healthcare Support Workers, All Other	_	\$11.20	\$8.61	\$10.59	\$11.59	\$7.91	\$9.13	\$10.49	\$12.25	\$13.63
_	Protective Service Occupations		\$14.64	\$9.28	\$17.99	\$22.34	\$8.05	\$10.74	\$18.01	\$23.55	\$28.06
_	First-Line Supervisors/Managers of Police and Detectives	٦	+	\$21.75	\$28.47	\$31.82	\$20.00	\$23.36	\$28.86	\$33.40	\$36.34
	Correctional Officers and Jailers	٦	\$10.20	\$16.29	\$19.57	\$21.21	\$15.31	\$17.21	\$19.57	\$21.78	\$25.11
	Police and Sheriff's Patrol Officers	Σ	\$19.40	\$15.65	\$20.18	\$22.45	\$15.09	\$16.80	\$20.06	\$23.93	\$26.67
	Security Guards	_	\$8.50	\$7.81	\$10.97	\$12.54	\$7.51	\$8.36	\$10.01	\$12.06	\$16.37
_	Crossing Guards	٦	\$6.80	\$7.90	\$8.97	\$9.50	\$7.30	\$7.72	\$8.42	\$9.86	\$11.68
33-9092	Protective Service Occupations		\$7.60	+	+	+	+	+	+	+	+
35-0000	Food Preparation and Serving-Related Occupations		\$7.31	\$6.12	\$8.11	\$9.10	\$5.82	\$6.37	\$7.31	\$8.67	\$10.78
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers		\$7.80	\$7.98	\$11.01	\$12.51	\$7.60	\$8.28	\$9.76	\$12.43	\$15.56
35-2011	Cooks, Fast Food	_	\$6.70	\$6.10	\$7.44	\$8.12	\$5.76	\$6.25	\$7.07	\$8.24	\$9.88
35-2012	Cooks, Institution and Cafeteria	٦	\$7.50	\$6.64	\$8.38	\$9.25	\$6.22	\$7.17	\$8.21	\$9.55	\$11.06
* 35-2014	Cooks, Restaurant	Σ	\$10.20	\$6.16	\$8.19	\$9.20	\$5.95	\$6.66	\$7.81	\$9.17	\$10.85
* 35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	Σ	\$6.50	\$6.18	\$7.24	\$7.77	\$5.88	\$6.40	\$7.19	\$8.14	\$8.75

OES wages reported for Colorado statewide No wage data available

Vacancies are ranked based on the total number reported for each occupation.
 H The top 25% are ranked as high demand because they are the most frequently occurring vacancies.
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 L The bottom 25% are ranked as low demand.

Table 3: Job Vacancy Survey Occupations with OES Wages - Page 4 -

					Occu	pational E	mployme	nt Statist	Occupational Employment Statistics Wage Data	Data	
				Ave	Average Wages	es		Percel	Percentile Distribution	ibution	
SOC Code	Management Occupations	‡ Vacancy Rank	Average JVS Wage	Entry Level	Overall	Experi- enced	10th	25th	50th	75th	90th
* 35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shoo	Σ	\$7.60	\$6.15	\$6.91	\$7.29	\$5.75	\$6.11	\$6.72	\$7.50	\$8.77
* 35-3031	Waiters and Waitresses	Σ	\$5.20	\$6.09	\$8.58	\$9.83	\$5.71	\$6.14	\$6.86	\$8.75	\$10.61
* 35-3041	Food Servers, Nonrestaurant	_	+	\$6.06	\$6.96	\$7.42	\$5.62	\$6.03	\$6.70	\$7.91	\$8.76
* 35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	Σ	\$6.30	\$6.08	\$6.63	\$6.91	\$5.63	\$6.00	\$6.59	\$7.34	\$8.23
* 35-9021	Dishwashers	_	\$5.80	\$6.08	\$7.02	\$7.47	\$5.73	\$6.23	\$7.05	\$7.98	\$8.55
37-0000	Building and Grounds Cleaning and Maintenance Occupations		\$8.71	\$6.95	\$9.41	\$10.63	\$6.35	\$7.42	\$8.52	\$10.50	\$13.74
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	Σ	\$9.10	\$6.97	\$8.76	\$9.66	\$6.35	\$7.37	\$8.24	\$9.47	\$11.42
37-2012	-	_	\$8.00	\$6.24	\$7.80	\$8.57	\$5.93	\$6.75	\$7.75	\$8.61	\$9.99
37-3011	Landscaping and Groundskeeping Workers	Σ	\$8.70	\$7.54	\$10.33	\$11.73	\$7.21	\$8.19	\$9.76	\$11.51	\$15.13
37-3019	Building and Grounds Cleaning and Maintenance Occupations	_	\$7.80	+	+	+	+	+	+	+	+
39-0000	_		\$12.14	\$6.61	\$10.10	\$11.85	\$6.20	\$7.15	\$8.49	\$11.66	\$16.66
39-1021	First-Line Supervisors/Managers of Personal Service Workers	_	\$8.00	\$11.19	\$14.89	\$16.74	\$9.82	\$12.17	\$13.72	\$17.19	\$22.66
39-3091	- `	_	\$7.60	\$6.19	\$6.89	\$7.24	\$5.76	\$6.08	\$6.61	\$7.15	\$8.47
39-5012	_	_	+	\$6.81	\$11.37	\$13.66	\$6.27	\$7.49	\$9.93	\$14.98	\$17.45
39-5094	_	_	+	\$6.89	\$8.30	\$9.01	\$6.41	\$7.22	\$7.98	\$8.75	\$11.47
39-9011	Child Care Workers	_	\$7.60	\$6.30	\$7.97	\$8.81	\$6.02	\$6.84	\$7.85	\$8.77	\$10.48
39-9031	_	Σ	\$14.20	\$12.48	\$17.34	\$19.76	\$10.30	\$14.59	\$16.52	\$20.47	\$26.14
39-9032	Recreation Workers	_	\$7.60	\$7.16	\$9.13	\$10.13	\$6.64	\$7.51	\$8.39	\$9.82	\$14.41
41-0000	Sales and Related Occupations		\$8.20	\$6.94	\$12.69	\$15.58	\$6.36	\$7.49	\$9.18	\$14.83	\$23.06
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	_	\$8.30	\$10.45	\$17.25	\$20.65	\$9.65	\$11.38	\$14.48	\$19.02	\$28.16
41-2011	_	Σ	\$7.10	\$6.31	\$8.78	\$10.03	\$5.97	\$6.86	\$7.92	\$9.76	\$14.17
41-2022	Parts Salespersons	_	\$19.20	\$9.08	\$13.05	\$15.03	\$8.40	\$9.74	\$11.46	\$15.80	\$20.38
41-2031	Retail Salespersons	Σ	\$7.50	\$6.57	\$10.28	\$12.14	\$6.09	\$7.07	\$8.28	\$10.86	\$17.14
41-3099	Sales Representatives, Services, All Other	_	+	\$7.69	\$19.05	\$24.73	\$7.36	\$8.18	\$13.69	\$23.64	\$45.72
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	_	\$12.30	\$17.62	\$26.24	\$30.55	\$16.75	\$19.46	\$25.83	\$33.39	\$37.17
41-9022	Real Estate Sales Agents	_	+	\$10.46	\$21.43	\$26.92	\$9.71	\$11.09	\$14.39	\$20.94	\$54.12
41-9041	Telemarketers	_	\$9.00	\$7.52	\$8.54	\$9.05	\$7.22	\$7.61	\$8.25	\$8.90	\$10.88
43-0000			\$9.00	\$8.35	\$12.49	\$14.57	\$7.65	\$9.22	\$11.44	\$14.70	\$18.45
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers		\$10.30	\$11.57	\$17.91	\$21.08	\$10.66	\$13.10	\$16.96	\$21.67	\$27.10
43-3011	Bill and Account Collectors	_	\$10.00	\$9.02	\$11.96	\$13.44	\$8.30	\$9.59	\$11.48	\$13.98	\$16.74
43-3031	Bookkeeping, Accounting, and Auditing Clerks	Σ	\$10.20	\$9.47	\$12.98	\$14.74	\$9.00	\$10.50	\$12.63	\$15.14	\$17.64
43-3071	Tellers	_	\$9.50	\$8.03	\$9.70	\$10.54	\$7.68	\$8.45	\$9.62	\$10.83	\$12.24
43-4031	Court, Municipal, and License Clerks	_	\$8.70	\$11.85	\$15.16	\$16.82	\$11.41	\$12.54	\$14.52	\$17.39	\$20.79
* OES wa	OES wages reported for Colorado statewide # Va	Vacancies are ranked based on the total number reported for each occupation.	e ranked b	ased on th	ne total nu	mber repo	orted for e	ach occu	ıpation.		

UES wages reported for Colorado statewide No wage data available

The top 25% are ranked as high demand because they are the most frequently occurring vacancies. The medium demand vacancies include everything between low and high demand. The bottom 25% are ranked as low demand. **+** I ≥ _

Table 3: Job Vacancy Survey Occupations with OES Wages - Page 5

				Occu	pational	mployme	nt Statis	Occupational Employment Statistics Wage Data	Data	
			Ā	Average Wages	es		Perce	Percentile Distribution	ibution	
SOC Management Occupations	‡ Vacancy Rank	Average JVS Wage	Entry Level	Overall	Experi- enced	10th	25th	50th	75th	90th
43-4051 Customer Service Representatives	I	\$8.10	\$7.74	\$10.98	\$12.60	\$6.61	\$8.95	\$10.45	\$12.63	\$15.73
43-4061 Eligibility Interviewers, Government Programs	_	\$10.60	\$11.60	\$14.83	\$16.44	\$11.04	\$12.15	\$13.68	\$16.86	\$20.46
43-4071 File Clerks	_	\$9.00	\$7.20	\$9.23	\$10.24	\$6.54	\$7.71	\$8.79	\$10.38	\$12.75
43-4121 Library Assistants, Clerical	_	\$8.80	\$7.28	\$10.02	\$11.39	\$6.78	\$8.04	\$9.96	\$12.09	\$13.72
43-4131 Loan Interviewers and Clerks	_	\$13.00	\$9.91	\$12.49	\$13.79	\$9.40	\$10.21	\$11.85	\$14.19	\$16.95
43-4141 New Accounts Clerks	_	+	\$10.77	\$12.39	\$13.19	\$9.84	\$11.43	\$12.53	\$13.56	\$14.41
43-4151 Order Clerks	٦	\$10.30	\$7.90	\$12.02	\$14.08	\$7.45	\$8.87	\$11.00	\$14.86	\$18.54
43-4171 Receptionists and Information Clerks	Σ	\$8.30	\$7.63	\$9.71	\$10.74	\$7.35	\$8.20	\$9.52	\$10.99	\$12.99
43-5021 Couriers and Messengers	٦	\$7.50	\$8.23	\$11.68	\$13.40	\$7.89	\$8.85	\$10.33	\$12.99	\$19.87
43-5032 Dispatchers, Except Police, Fire, and Ambulance	٦	\$12.50	\$9.75	\$14.12	\$16.31	\$8.55	\$11.29	\$14.43	\$16.82	\$19.14
43-5071 Shipping, Receiving, and Traffic Clerks	_	\$10.50	\$7.76	\$11.19	\$12.90	\$7.45	\$8.47	\$10.69	\$13.68	\$16.38
43-5081 Stock Clerks and Order Fillers	Σ	\$7.50	\$7.33	\$11.19	\$13.12	\$6.87	\$8.01	\$10.17	\$14.39	\$17.31
43-6011 Executive Secretaries and Administrative Assistants	Σ	\$12.70	\$11.26	\$15.01	\$16.89	\$10.35	\$12.06	\$14.37	\$17.16	\$20.86
43-6013 Medical Secretaries	Σ	+	\$9.85	\$12.19	\$13.36	\$9.44	\$10.42	\$12.02	\$13.77	\$15.95
43-6014 Secretaries, Except Legal, Medical, and Executive	Σ	\$11.00	\$8.55	\$11.41	\$12.83	\$7.89	\$9.30	\$10.94	\$13.28	\$16.08
43-9061 Office Clerks, General	_	\$8.30	\$7.47	\$11.50	\$13.51	\$7.02	\$8.31	\$10.22	\$12.60	\$15.47
45-0000 Farming, Fishing, and Forestry Occupations		\$9.00	\$7.58	\$10.86	\$12.50	\$7.27	\$8.27	\$10.00	\$12.24	\$16.29
45-2093 Farmworkers, Farm and Ranch Animals	_	\$9.00	\$6.09	\$8.36	\$9.50	\$5.80	\$6.40	\$7.72	\$10.11	\$12.23
47-0000 Construction and Extraction Occupations		\$14.68	\$10.25	\$15.65	\$18.35	\$9.38	\$11.63	\$14.83	\$18.96	\$22.97
47-1011 First-Line Supervisors/Managers of Construction Trades and Extraction Workers	٦	\$21.00	\$17.11	\$23.14	\$26.16	\$15.60	\$18.50	\$21.77	\$27.13	\$33.69
47-2051 Cement Masons and Concrete Finishers	_	\$12.00	\$10.11	\$14.91	\$17.31	\$9.33	\$11.15	\$14.63	\$17.87	\$21.29
47-2061 Construction Laborers	_	\$7.50	\$8.27	\$11.31	\$12.83	\$7.22	\$9.34	\$10.95	\$13.28	\$16.07
47-2081 Drywall and Ceiling Tile Installers	_	+	\$12.97	\$16.12	\$17.70	\$11.75	\$14.33	\$16.18	\$18.47	\$21.02
47-2111 Electricians	_	\$17.00	\$12.01	\$18.35	\$21.51	\$10.77	\$13.45	\$17.76	\$21.57	\$27.22
* 47-2152 Plumbers, Pipefitters, and Steamfitters	7	\$18.40	\$11.77	\$17.35	\$20.15	\$11.19	\$13.46	\$17.00	\$21.48	\$25.48
	_	\$20.50	\$11.22	\$17.37	\$20.44	\$10.29	\$12.69	\$16.49	\$21.96	\$26.75
	_	\$28.60	\$14.57	\$19.46	\$21.89	\$14.51	\$16.56	\$19.56	\$22.27	\$26.13
* 47-4051 Highway Maintenance Workers	Σ	\$15.10	\$13.28	\$17.38	\$19.42	\$12.21	\$14.23	\$17.44	\$20.50	\$22.35
* 47-5011 Derrick Operators, Oil and Gas	7	\$12.80	\$12.50	\$14.87	\$16.06	\$11.76	\$12.66	\$14.23	\$16.86	\$19.65
* 47-5021 Earth Drillers, Except Oil and Gas	7	\$9.00	\$11.77	\$16.57	\$18.97	\$11.23	\$12.54	\$15.10	\$20.28	\$25.87
* 49-0000 Installation, Maintenance, and Repair Occupations		\$12.50	\$9.57	\$15.89	\$19.04	\$8.58	\$10.89	\$15.15	\$20.06	\$25.21
* 49-1011 First-Line Supervisors/Managers of Mechanics, Installers, and Repairers		\$20.00	\$12.18	\$20.29	\$24.34	\$8.27	\$15.59	\$21.10	\$25.80	\$28.58
49-2098 Security and Fire Alarm Systems Installers	_	\$9.00	\$11.29	\$16.97	\$19.81	\$10.27	\$12.98	\$17.40	\$20.79	\$22.72
* 49-3011 Aircraft Mechanics and Service Technicians	Σ	\$19.70	\$9.78	\$14.95	\$17.54	\$9.37	\$10.60	\$14.83	\$18.62	\$21.77
	_	+	\$12.28	\$19.01	\$22.36	\$10.22	\$14.87	\$18.58	\$22.12	\$28.38
49-3023 Automotive Service Technicians and Mechanics	_	\$11.60	\$9.34	\$16.62	\$20.25	\$7.99	\$10.97	\$16.39	\$21.26	\$25.82
* OES wages reported for Colorado statewide #	Vacancies are ranked based on the total number reported for each occupation.	re ranked b	ased on tl	ne total nu	mber rep	orted for e	ach occi	upation.		

□ UES wages reported for Colorado statewide
 ↑ No wage data available

* Additions are railined based on the total number reported for each occupation.
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Table 3: Job Vacancy Survey Occupations with OES Wages – Page 6-

					Occu	pational E	Occupational Employment Statistics Wage Data	nt Statis	tics Wage	Data	
		-		Ave	Average Wages	es		Perce	Percentile Distribution	ibution	
SOC	Management Occupations	‡ Vacancy Rank	Average JVS Wage	Entry	Overall	enced	10th	25th	50th	75th	90th
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	٦	\$11.00	\$11.67	\$16.43	\$18.81	\$11.49	\$13.10	\$15.78	\$19.54	\$23.69
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Σ	\$15.00	\$10.65	\$14.26	\$16.07	\$9.79	\$11.47	\$13.55	\$16.76	\$20.44
49-9042	Maintenance and Repair Workers, General	Σ	\$10.50	\$9.05	\$13.51	\$15.73	\$8.36	\$10.29	\$12.90	\$16.61	\$20.31
49-9043	Maintenance Workers, Machinery		\$17.40	\$10.68	\$14.41	\$16.28	\$9.89	\$11.39	\$13.93	\$17.23	\$20.21
49-9062	Medical Equipment Repairers		+	\$17.03	\$22.32	\$24.96	\$14.85	\$19.49	\$22.87	\$26.19	\$28.29
49-9099	Installation, Maintenance, and Repair Workers, All Other		\$12.30	\$8.53	\$14.54	\$17.54	\$7.75	\$9.73	\$13.59	\$19.45	\$22.05
51-0000			\$12.54	\$8.26	\$12.38	\$14.43	\$7.59	\$9.09	\$11.21	\$14.25	\$18.78
51-2022	Electrical and Electronic Equipment Assemblers	7	+	\$9.62	\$12.56	\$14.03	\$9.20	\$10.23	\$12.12	\$14.16	\$16.85
51-3011	Bakers	_	\$8.80	\$7.27	\$10.45	\$12.05	\$6.71	\$7.99	\$10.15	\$13.07	\$14.67
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	_	\$9.00	\$8.85	\$12.73	\$14.67	\$7.89	\$10.12	\$13.14	\$15.54	\$17.04
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic		\$14.50	\$9.09	\$13.70	\$15.99	\$7.80	\$10.88	\$12.72	\$14.75	\$24.82
51-4041	Machinists	_	\$9.00	\$12.57	\$16.78	\$18.88	\$10.88	\$14.53	\$17.00	\$19.91	\$21.94
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic		+-	\$8.00	\$10.86	\$12.29	\$7.53	\$8.78	\$10.38	\$12.68	\$14.93
51-4121	Welders, Cutters, Solderers, and Brazers	_	\$14.80	\$8.82	\$12.37	\$14.14	\$8.04	\$9.52	\$11.70	\$14.44	\$17.50
51-5011	Bindery Workers	7	\$14.50	\$7.80	\$8.73	\$9.21	\$7.18	\$7.49	\$8.00	\$8.53	\$9.74
51-5022	Prepress Technicians and Workers	٦	\$9.00	\$8.91	\$12.73	\$14.64	\$8.15	\$9.57	\$11.86	\$15.72	\$19.39
51-5023	Printing Machine Operators	٦	\$11.50	\$8.39	\$12.75	\$14.94	\$7.78	\$8.83	\$12.36	\$14.42	\$19.78
51-6011	Laundry and Dry-Cleaning Workers	7	\$8.50	\$6.50	\$8.11	\$8.92	\$6.06	\$7.02	\$7.86	\$8.68	\$11.29
51-8031	Water and Liquid Waste Treatment Plant and System Operators		\$19.50	\$14.80	\$19.84	\$22.35	\$14.12	\$16.15	\$19.11	\$21.90	\$26.16
51-9083	Ophthalmic Laboratory Technicians		\$11.00	\$8.37	\$10.88	\$12.15	\$7.74	\$8.90	\$10.26	\$12.28	\$15.85
51-9111	Packaging and Filling Machine Operators and Tenders	_	\$17.50	\$7.18	\$10.10	\$11.56	\$6.70	\$7.79	\$9.58	\$11.29	\$15.58
51-9198	_	_	\$10.50	\$6.23	\$7.68	\$8.41	\$5.83	\$6.20	\$6.83	\$8.11	\$11.66
51-9199	Production Workers, All Other	_	+	\$6.68	\$10.10	\$11.81	\$6.19	\$7.28	\$9.52	\$11.99	\$15.41
53-0000			\$9.01	\$7.20	\$11.42	\$13.53	\$6.61	\$8.12	\$10.52	\$14.12	\$17.40
53-3022	_	7	\$10.60	\$8.94	\$10.58	\$11.39	\$8.29	\$9.46	\$10.44	\$11.60	\$13.60
53-3031		Σ	\$5.90	\$6.12	\$11.34	\$13.95	\$5.87	\$6.65	\$10.46	\$14.70	\$19.67
53-3032	Truck Drivers, Heavy and Tractor-Trailer	Σ	\$10.60	\$11.18	\$14.58	\$16.29	\$10.39	\$12.18	\$14.51	\$16.81	\$19.29
53-3033	Truck Drivers, Light or Delivery Services	_	\$10.30	\$7.11	\$11.13	\$13.13	\$6.55	\$7.88	\$10.33	\$13.77	\$16.93
53-3041	Taxi Drivers and Chauffeurs	7	\$7.30	\$7.39	\$9.24	\$10.16	\$7.03	\$7.50	\$8.18	\$8.90	\$14.08
53-6041	Traffic Technicians	_	+	\$17.02	\$20.11	\$21.65	\$15.98	\$17.88	\$19.93	\$22.01	\$25.36
53-7021		7	\$15.00	\$15.98	\$19.33	\$21.02	\$13.67	\$18.33	\$20.01	\$21.68	\$22.77
53-7051	Industrial Truck and Tractor Operators	Σ	\$10.80	\$8.76	\$11.77	\$13.27	\$7.99	\$9.55	\$11.39	\$13.67	\$16.27
53-7062	_	_	\$8.60	\$7.53	\$9.89	\$11.07	\$7.18	\$8.00	\$9.24	\$11.12	\$13.86
53-7064	Packers and Packagers, Hand	_	\$5.50	\$6.16	\$7.21	\$7.75	\$5.76	\$6.16	\$6.83	\$8.09	\$9.65
*	Value of the Colorade etatewide	Vacancies are		ranked based on the total number renorted for each occi	e total niii	nhar rang	orted for a	ach occi	nation		

* OES wages reported for Colorado statewide † No wage data available

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Vacancies are ranked based on the total number reported for each occupation.

The top 25% are ranked as high demand because they are the most frequently occurring vacancies. The medium demand vacancies include everything between low and high demand.

The bottom 25% are ranked as low demand.

Methodology

any challenges exist in collecting and analyzing the data for the Job Vacancy Survey.
Because methods selected to carry out a survey impact the final results, great effort is put into

making this survey statistically viable and, most importantly, accurate. Methods used in this survey will continue to be reviewed and, where statistical viability and accuracy can be improved, modified.

Computer Assisted Telephone Interview

Our professional survey unit developed the Computer Assisted Telephone Interview (CATI) to maximize accuracy and usefulness, while minimizing length and survey bias. In accordance with recognized survey research standards, the following selection of questions are taken directly from the phone interview script.

In General

- 1. How many employees do you have working within the region?
- 2. Do you have any job vacancies for which your firm is actively recruiting?
- 3. How many job vacancies is your firm recruiting to fill?

For Each Vacancy

- 1. What is the job title?
- 2. Briefly, what are the job duties?
- 3. Which of the following best describes this vacancy?
 - Full-time/Permanent
 - Full-time/Temporary
 - Part-time/Permanent
 - Part-time/Temporary
- 4. What is the maximum wage offered for this vacancy?
- 5. What is the minimum wage offered for this vacancy?
- 6. Is a sign-on bonus offered? If yes, how much?

- 7. Is medical insurance offered?
- 8. If yes, does your firm pay the total cost of the premium, partial cost of the premium or do you make no contribution at all to the premium?
- 9. Which of the following best describes the education level required to fill this vacancy?
 - No diploma required
 - High School or GED diploma
 - Two-year degree
 - Bachelor's degree
 - Advanced degree
- 10. What best describes the type of experience required to qualify for this vacancy?
 - No experience is required
 - General work experience
 - Experience in a related field
 - Experience in this occupation
- 11. How long has this vacancy been open?
 - Less than 30 days
 - 30 to 59 days
 - 60 or more days
 - Always hiring for this position
- 12. How difficult is this vacancy to fill?
 - Not difficult
 - Somewhat difficult
 - Very difficult to fill

Survey Sample Methodology

This survey is designed to estimate the number of vacancies in the region and to provide detailed vacancy characteristics. Employers with at least five employees are placed into either Government or private industry categories. Firms with fewer than five employees make up a very large portion of all employers in the region, but a small proportion of total employment. The possibility of employing statistical methods to estimate vacancies for this group is currently being explored.

Private firms are grouped by employment level into either large or small to mid-size categories. Attempts are made to contact each large private employer and Government agency in the region. Small to mid-size firms are further divided by major industry and randomly sampled until a representative response is obtained for each category.

The original list of private industry firms used for the survey, along with their contact information, staff size and industry classification is obtained from the America's Labor Market Information System (ALMIS) database. Government contact information is provided by the Colorado Department of Labor and Employment's ES-202 employer database.

Data Editing

Once data collection is complete, measures are taken to prepare the data for analysis. To ensure accuracy, follow-up phone calls are made when employer responses need clarification.

Occupational Coding

The job title and duties reported by employers are used to code vacancies in accordance with the latest release of the Standard Occupational Classification system. For more information on this occupational classification system, please refer to the definitions section.

Wage Conversion

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

All wages reported below the federal minimum wage are adjusted to that amount. Currently, the federal minimum wage is \$5.15 per hour.

Definitions

hese definitions are meant to clarify data gathered for the Job Vacancy Survey. For other data sources referenced in the document, please see that source for a complete definition.

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.

Average Minimum and Average Maximum Wage

When surveyed employers report wages offered for current vacancies, both a minimum and a maximum wage are recorded. All minimum wages are averaged to determine the reported average minimum wage. The same is true for the reported average maximum wage.

Employer

A person or establishment that pays one or more people a wage or salary.

Employment

Includes people who did any work for pay or profit in the reference period, worked 15 hours or more without pay in a family business or farm, or were temporarily absent from their jobs.

Full-time and Part-time Employment

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

Industry Classification

Employers are grouped into industries on the basis of their principal product or activity in accordance with the 1987 Standard Industrial Classification Manual.

Job Seekers

People actively looking for employment or researching career options.

Job Vacancy

A specific position of employment at an establishment with the condition that there is work available for the position and the employer is actively recruiting for the position. The definition does not include positions that are anticipated, but not yet created.

Job Vacancy Rate

The number of openings in a specific industry or category expressed as a share of the total employment in that same industry.

Labor Force

Consists of all employed or unemployed civilians who are eligible to work, plus members of the Armed Forces stationed in the United States.

Level of Education

Refers to completed education programs - high school diplomas, associate, professional, vocational, bachelor's, and graduate degrees all are examples of completed programs.

Medical Insurance Premium

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

Permanent and Temporary Employment

A vacancy is classified as permanent if it will be filled for more than six months. Temporary employment refers to those positions that will be filled for six months or less.

Sign-on Bonus

An additional financial incentive offered by a firm to a new employee to influence his/her decision to agree to employment with that firm. The bonus, for purposes of this survey, is a monetary lump sum.

SOC

The Standard Occupational Classification is a system for classifying all occupations in the economy, including private, public, and military occupations. This classification system replaces all occupational

classification systems previously used by federal statistical agencies. It will be used by all federal statistical agencies and programs collecting occupational data, providing a means to compare occupational data across agencies. It is designed to cover all occupations in which work is performed for pay or profit, reflecting the current occupational structure in the United States.

Survey Sample Universe

All private industry and Government employers with five or more employees in the region. Government entities are drawn from ES-202 while private companies come from the ALMIS database.

Unemployment

Includes people 16 years of age and over who had no employment during the reference period, were available for work (except for temporary illness), and have made specific efforts to find employment. People who did not look for work because they were on temporary layoff or waiting to start new jobs within the next thirty days are also counted among the unemployed.

Unemployment rate

The unemployment rate represents the number unemployed as a percent of the labor force.

Wage

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