



pennsylvania

DEPARTMENT OF LABOR & INDUSTRY

Labor Market Information for Data Users

Tim McElhinny

Center for Workforce Information & Analysis (CWIA)

Who is CWIA?



- CWIA = Center for Workforce Information & Analysis
- A bureau within the Pennsylvania Department of Labor & Industry with nearly 70 statisticians
- Key Role: Provides **labor market information (LMI)** products and services in support of workforce and economic development to various user groups (e.g., policy makers, business leaders, workforce and economic developers, jobseekers, educators, and students).
- In a nutshell: CWIA measures and reports on Pennsylvania's labor force (employment and unemployment), employers, industries, occupations, and wages through various products and services.

CWIA Contact Information



**Customer Response Line: 877-493-3282 or
877-4WF-Data**

Email: workforceinfo@pa.gov

On the web: www.paworkstats.state.pa.us

What is LMI?

- LMI refers to a variety of information associated with the supply and demand for workers. This includes information on the labor force, employers, industries, occupations, wages, and skills...just to name a few!
- Labor force = supply of workers and their characteristics
- Employers = business establishments that employ workers in different industries
- Occupations = types of jobs employers want
- Wages = what workers will accept and employers will pay
- Skills = education and training requirements for different occupations
- Labor Force + Employers + Occupations + Wages + Skills = Labor Market

Questions LMI Can Help Answer

- How many people do we have in the workforce?
- What industries are in my local area?
- What occupations do they employ? What wages do they offer?
- What jobs are employers looking to fill?
- Who are the top employers in my county?
- What education and skills are required for the available jobs?
- What is the employment outlook for an occupation?
- What career should I choose?

Core LMI

- Local Area Unemployment Statistics (LAUS)
- Current Employment Statistics (CES)
- Quarterly Census of Employment and Wages (QCEW)
- Occupational Employment Statistics (OES)
- Job Spidering
- Fast Facts
- Specialized Products

Local Area Unemployment Statistics



- Estimates the unemployment rate and a count of the labor force, employed, and unemployed for an area. Count of persons (not jobs). Based on where people live.
- Available for the nation, state, county, and select minor civil divisions. Produced monthly.
- The unemployment rate is the best overall economic indicator on how the state or a county is doing in the current economy. Useful comparisons of the rate are: between county and state, state and nation, and Pennsylvania to neighboring states.
- The unemployment rate is the number of unemployed, or those looking for work divided by the labor force (Employed + Unemployed). Keep an eye on year-over-year changes in the unemployment rate, unemployment and employment as an indication of trend.

Local Area Unemployment Statistics

- How do I find Local Area Unemployment Statistics data?
- Go to www.paworkstats.state.pa.us
- Select Data tab in upper left hand corner of page
- Click Labor Market Analysis in the center of page
- Locate Employment and Wage Data under Historical Data Analysis
- Select Labor Force Data
- Click Labor Force Employment and Unemployment (LAUS)
- Choose area and time
- Related Products - [Civilian Labor Force Packet](#) and [News Releases](#)

Current Employment Statistics



- One of two sources of industry data. CES data comes from a monthly survey of employers in PA and across the nation. Available monthly.
- Strength is timeliness, but lacks the granular industry detail of QCEW.
- Produces monthly estimates of employment by type of business activity (major industry sector and select subsectors) for the nation, state, and Metropolitan Statistical Areas. Assess the growth of various industries.
- Also referred to as “non-farm jobs” due to the fact that agricultural establishments are not counted.
- Counts the number of JOBS (not workers). Based on job location.
- Pay attention to the over-the-month and over-the-year changes. Is PA gaining or losing jobs? What industries are gaining or losing jobs by area? See how PA compares to the US for perspective.

Current Employment Statistics

- How do I find Current Employment Statistics data?
- Go to www.paworkstats.state.pa.us
- Select Data tab in upper left hand corner of page
- Click Labor Market Analysis in the center of page
- Locate Employment and Wage Data under Historical Data Analysis
- Select Industry Data
- Click Current Employment Statistics (CES)
- Choose area and time
- Related Products - [News Releases for the State of PA](#) - on homepage

QCEW

- Quarterly Census of Employment and Wages (QCEW). Second source of industry data. Data comes from employers who submit their employment and wages to determine their unemployment compensation contributions.
- A count of employers and their employment and wages by business activity (NAICS) and area. Covers 98 percent of employment and available at the nation, state, MSA, and county. Available Quarterly.
- Strength is detail, but not timely, 9-month lag until data is released.
- Pay attention to the over-the-year changes and not quarterly changes because data is not seasonally adjusted. Not a longitudinal data set.
- Employers use to compare their industry's economic performance and wages to other sectors/areas. Analysts and jobseekers/training institutions use these data to identify growing and declining industries, and high and low-paying sectors.

QCEW

- How do I find QCEW data?
- Go to www.paworkstats.state.pa.us
- Select Data tab in upper left hand corner of page
- Click Labor Market Analysis in the center of page
- Locate Employment and Wage Data under Historical Data Analysis
- Select Industry Data
- Click Quarterly Census of Employment and Wages (QCEW)
- Choose area and time and industry
- Related Products – [Top 50 Employers](#), [Employers with 500 or more employees](#), [Industry Projections](#)

Occupational Employment Statistics



- Produces employment and wage estimates for over 700 occupations. Estimates the number of people employed in certain occupations, their wages, and the industries (statewide only) they work in.
- Occupations are classified using Standard Occupational Codes (SOC), which group occupations by function, industry, and skills.
- Produced annually for the state, MSAs, WIAs, and counties.
- Students, jobseekers, school counselors and workforce developers use to assess the current employment levels in various job titles, in order to identify occupations in high demand in specific areas of interest.
- Businesses are interested in wages for pay setting purposes while students and jobseekers are interested to plan current and future careers.
- Used to identify large regional occupations and as well as smaller emerging occupations. High employment-base occupations are important because they create job openings due to growth or replacement needs.

Occupational Employment Statistics

- How do I find OES data?
- Go to www.paworkstats.state.pa.us
- Select Data tab in upper left hand corner of page
- Click Labor Market Analysis in the center of page
- Locate Employment and Wage Data under Historical Data Analysis
- Select Occupation Data, four categories to choose from
- Choose area, time and occupation
- Related Products - [Occupational Wages](#), [Occupational Employment Projections](#), [Career Guide](#), [Career Videos](#), [High Priority Occupations](#), [Career Posters](#) – under [Products](#) tab

FAST FACTS

- Fast Facts is a primary delivery method for many of CWIA's data sets
- Data sets include:

Labor Force	Industry Highlights
Demographics	Employer Activities
Local Employment Dynamics	Help Wanted Online (HWOL)
Unemployment Compensation	New Hires
Jobs/Industry	Much more
- Use Fast Facts for overall economic and area trends and planning
- [Posted on CWIA's homepage](#)
- [WIA Fast Facts now available](#). Release schedule on our website
- [Marcellus Shale Fast Facts currently published monthly](#)

Job Spidering

- Job Spidering allows job seekers to review thousands of online jobs from dozens of web sites in one location
- Job Spidering allows the searcher to apply for the job. Located on www.paworkstats.state.pa.us and is free to the public for use
- Job postings are categorized in labor market information language. Assigned an Occupation Code (SOC), an Industry Code (NAICS), and an employer if possible; and searchable by geographic area
- CWIA recommends using [Job Spidering](#) in conjunction with our many other labor market information products for focused job searches by industry, occupation, or employer (e.g., HWOL, New Hires, Occupational Projections, TIC)

Specialized Products

- [Occupational Skills Data](#) - job requirements for an occupation including skills, licensing, knowledge, abilities, experience, work interests and styles.
- [Long-Term Industry Projections](#) - estimates of employment levels by industry 10 years in the future by area. *What are the industries that will be hiring?*
- [Long-Term Occupational Projections](#) - estimates of employment levels by occupation 10 years in the future by area. *What occupations will be needed?*
- [Occupational Wages](#) - Contains wage information for occupations by area. *What are the highest paying occupations?*
- [High Priority Occupations](#) - occupations that are in demand by employers, have higher skill needs and are most likely to provide family sustaining wages
- [PA Career Guide](#) - designed to assist those exploring careers and making decisions about education, training and work
- [PA Resource Guide](#) - a tool to be used by educators to direct students and jobseekers through career exploration
- [Occupational Charts & Graphs](#) - occupations that will gain the most jobs (volume) and grow at the fastest rates (percent) by a given level of educational attainment

Specialized Products

- [CWIA Presentations](#) - informative presentations given by CWIA
- [New Hires by Workforce Investment Area](#) – shows where and in which industries employers are currently hiring
- [Top 50 Employers](#) - Lists the employers with the greatest employment by various geographic regions ranging from county to statewide
- [County Profiles](#) - A compilation of selected economic, geographic, and demographic data about each of Pennsylvania's 67 counties
- [Career Videos](#) - over 500 videos of people at work in various occupations showing the kind of work involved and providing the typical educational background
- [Pennsylvania's Targeted Industry Clusters](#) - groups of industries that are closely linked by common product markets, labor pools, similar technologies, supplier chains, and /or other economic ties
- [Green Jobs Survey Report](#) – identifies the number and type of green jobs that exist within the state. Use for focused job searches
- [LED Database](#) - analyze information on employment and earnings in different industries by age and gender – database available upon request

Website Tour

We will now go through a live demonstration of CWIA's web site

www.paworkstats.state.pa.us