Labor Market Information:
What Can It Tell You About Workforce Trends in Michigan and Your Local Region?

Bruce Weaver
DLEG – Bureau of Labor Market Information
September 25, 2008
Who We Are

Department of Labor & Economic Growth

Bureau of Labor Market Information & Strategic Initiatives

- Our data is produced using established federal methodologies; this means our data is fully comparable with information produced in other states and regions.
- We maintain ongoing data programs rather than one-time ad-hoc surveys or reports.
Labor Market Information

- Is the process of collecting, analyzing, estimating, reporting, and publishing economic data to describe and predict the relationship between labor demand and labor supply.

- What are the sources of the basic data collection?
  - Employer surveys
  - Administrative records
Why Is Labor Market Information Important?

- LMI affects social, fiscal, technological, and economic policies
- LMI impacts:
  - Career decisions of students and jobseekers
  - Curriculum planning for education & training
  - Employer hiring and location decisions
  - How government dollars are allocated
Our Customers Ask . . .

- What do jobs pay locally and how does this compare with neighboring regions?
- What are the high-demand jobs in my region? What industries are expanding?
- What occupations offer opportunities for placing recent graduates or laid off workers?
- What key job skills are required by employers?
- Is there a sufficient skilled workforce in this region?
- How educated is the local labor force?
What Information Is Available?

- Occupational wages
- Occupational forecasts
- Skill requirements
- Industry jobs
- Industry forecasts
- Average weekly wage
- Employer Locator
- Jobs, hours & earnings by industry
- Labor force data
- Population characteristics
- Commuting patterns
- Local Employment Dynamics
- Job Vacancy statistics
- Mass layoff statistics
- Program enrollments and degrees granted
- Job applicant characteristics
How Can You Use This Information in Your Job?

- **Does your job require talking with employers?**
  - If you keep up with local economic trends, employers you deal with will quickly realize you are informed.

- **Does your job require you to assist jobseekers?**
  - Knowledge of LMI will help you to quickly show them resources on high demand jobs, wage rates for specific occupations, growth sectors in your local economy, or lists of specific local employers.

- **Do you work with specific groups of customers, such as dislocated workers or older workers?**
  - Check out the Local Employment Dynamics program; it may give you clues on which industries in your local region typically hire workers by age/gender.

- **Do you assist customers with barriers to employment (physical limitations or limited proficiency in English?)**
  - ONET can be a useful resource.

- **Does your job involve identifying local growth industries or local demand occupations?**
  - LMI provides a number of resources on your specific region that can help.
Basic Labor Market Indicators

- Labor Force Status
- Jobs by Industry
- Wages by Industry
- Jobs by Occupation
- Wages by Occupation
- Mass Layoff Statistics
Labor Force Status
Labor Force Data

• Data Produced
  – Civilian Labor Force
  – Employed
  – Unemployed
  – Unemployment Rate

• Geography
  – State, all metro areas, all counties, large cities

• Published monthly
Current Population Survey - CPS

- Household survey conducted by U.S. Census Bureau
  - 60,000 Households nationwide
  - 1,800 Households in Michigan
- Survey directly determines the U.S. monthly statistics
  - Size and demographics of the labor force
  - Number of employed
  - Number of unemployed
- For states, survey is supplemented with other indicators in a regression model
You are Employed if You ….

- Worked at least one hour for pay or profit
  OR
- Worked 15 hrs without pay for family-run business
  OR
- Were temporarily absent from work due to illness, vacation, bad weather or labor dispute
You are Unemployed if You ….

- Did no work for pay during the survey week
  AND
- Made a specific effort to find work during the last four weeks
  AND
- Were available for work (unless temporarily ill but otherwise employed)

Note: The definition of unemployed has nothing to do with receiving unemployment benefits; only ~40 percent of unemployed receive UI benefits.
Examples of Persons “Not in the Labor Force”

- Retirees
- Persons with family responsibilities
- Full-Time Students
- Persons marginally attached to labor force
  - Looked for work in last 12 months (but not in the last 4 weeks)
  - Discouraged job seekers
Industry Data
Industry Employment Data Sources

• Current Employment Statistics (CES)
  – Provides monthly estimate of jobs by industry for Michigan and specific metro regions
  – Based on an employer survey
  – Estimates released monthly
  – Available for U.S., Michigan and metropolitan areas
  – Advantage – most current information source
  – Disadvantage – limited industry and geographic detail
Industry Employment
Data Sources

• **Quarterly Census of Employment & Wages (QCEW)**
  – Near-universe count of establishments, jobs and payroll for firms covered by unemployment insurance tax law
  – Estimates released quarterly – but includes monthly job counts
  – Available for all counties
  – Advantage – most industry detail and geographic detail
  – Disadvantage – Less timely; data released 7 months after reference quarter
Where to Find Information on Industries

- Employment levels by detailed industry
  - State and metro area (CES data) [www.michigan.gov/lmi](http://www.michigan.gov/lmi) (Click on Industry Information or Data Explorer links)
  - Counties (QCEW data) [www.michigan.gov/lmi](http://www.michigan.gov/lmi) (Click on Data Explorer link)

- Industry forecasts
  - 2014 forecasts for Michigan regions
  - State and regional: [www.michigan.gov/lmi](http://www.michigan.gov/lmi)
  - National: [www.bls.gov/emp/](http://www.bls.gov/emp/)

- Industry staffing patterns
  - On-line at [www.bls.gov/emp/empiols.htm](http://www.bls.gov/emp/empiols.htm)
## Michigan Broad Industry Sectors
### Ranked by Job Growth Rate

<table>
<thead>
<tr>
<th>Industry</th>
<th>Total Jobs 2007</th>
<th>Job Growth Rate 1997-2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational &amp; Health Services</td>
<td>595,000</td>
<td>+ 21.6%</td>
</tr>
<tr>
<td>Leisure &amp; Hospitality Services</td>
<td>404,500</td>
<td>+ 6.9 %</td>
</tr>
<tr>
<td>Financial Activities</td>
<td>211,400</td>
<td>+ 3.4 %</td>
</tr>
<tr>
<td>Other Services</td>
<td>176,700</td>
<td>+ 3.0 %</td>
</tr>
<tr>
<td>Government</td>
<td>657,200</td>
<td>+ 1.5 %</td>
</tr>
<tr>
<td>Professional &amp; Business Serv.</td>
<td>573,300</td>
<td>+ 1.0 %</td>
</tr>
</tbody>
</table>
Which Detailed Michigan Industries Have Recorded the Fastest Job Growth Since 1997?

<table>
<thead>
<tr>
<th>Industry</th>
<th>Total Jobs 2007</th>
<th>Job Growth Rate 1997-2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gambling Industries</td>
<td>7,300</td>
<td>+ 151.7%</td>
</tr>
<tr>
<td>Private Schools</td>
<td>78,000</td>
<td>+ 56.9 %</td>
</tr>
<tr>
<td>Full Service Restaurants</td>
<td>133,600</td>
<td>+ 25.0 %</td>
</tr>
<tr>
<td>Science/Tech Consulting Serv.</td>
<td>19,200</td>
<td>+ 20.0 %</td>
</tr>
<tr>
<td>Health Care &amp; Social Assist.</td>
<td>517,000</td>
<td>+ 17.6 %</td>
</tr>
<tr>
<td>Nonprofit Organizations</td>
<td>97,800</td>
<td>+ 17.3 %</td>
</tr>
<tr>
<td>Truck Transportation</td>
<td>40,900</td>
<td>+ 17.2%</td>
</tr>
<tr>
<td>Health &amp; Personal Care Stores</td>
<td>33,800</td>
<td>+ 11.9%</td>
</tr>
</tbody>
</table>
Which Michigan Works! Regions Lead the State in Job Growth in Health Care Since 2004?

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Livingston County</td>
<td>4,200</td>
<td>+ 17.2%</td>
</tr>
<tr>
<td>Ottawa County</td>
<td>7,500</td>
<td>+ 14.0 %</td>
</tr>
<tr>
<td>ACSET</td>
<td>45,400</td>
<td>+ 13.1 %</td>
</tr>
<tr>
<td>Macomb-St. Clair</td>
<td>41,600</td>
<td>+ 11.1 %</td>
</tr>
<tr>
<td>Capital Area</td>
<td>24,600</td>
<td>+ 11.1 %</td>
</tr>
<tr>
<td>Saginaw-Midland-Bay</td>
<td>24,900</td>
<td>+ 11.0 %</td>
</tr>
<tr>
<td>Oakland County</td>
<td>89,700</td>
<td>+ 9.2%</td>
</tr>
<tr>
<td>Kalamazoo-St. Joseph</td>
<td>18,400</td>
<td>+ 9.1%</td>
</tr>
</tbody>
</table>
Occupational Data
Occupational Data

Occupational Employment Statistics (OES) Program

- Federal-State cooperative program
- Collects data on wage & salary workers in nonfarm establishments
  - Self-employed persons not included
- 400,000 firms surveyed each year nationwide
- Produces employment and wage estimates
  - For over 800 occupations by geographic area
- Uses Standard Occupational Classification (SOC) system
Occupational Employment Forecasts

• Produced for Michigan and 18 regions

• Forecasts for 2006-2016 available for Michigan

• Forecasts for 2004-2014 available for regions

• Reflects long-term growth prospects
  – May not mirror current job outlook
    • Short-term 2007-2009 forecasts available for Michigan only
Where to Find Information on Occupational Employment

- Employment levels by detailed occupation
  - State and regional [www.michigan.gov/lmi](http://www.michigan.gov/lmi) (Click on Data Explorer – OES)

- Occupational forecasts (job outlook)
  - 2016 forecasts for Michigan
  - 2014 forecast for Michigan regions
  - State and regional: [www.michigan.gov/lmi](http://www.michigan.gov/lmi) (Click on Occupational Information or The Future)
  - National: [www.bls.gov/emp/](http://www.bls.gov/emp/)
Where to Find Information on Occupational Wages

- Occupational wages
  - State and regional averages: www.michigan.gov/lmi
  - National: www.bls.gov/oes/
  - National, state and regional percentile groups: www.careeronestop.org/SalariesBenefits
Professionals Will Account For Nearly A Third Of MI New Jobs
Fastest Growing Occupations Require Advanced Education

Avg. Growth = 6.7%

- Less than 1 Month OJT
- One to 12 Months OJT
- Work Experience or Greater Than 12 Months OJT
- Post-Secondary Vocational Training
- Associate's Degree
- Bachelor's Degree or Higher

OJT=On-the-job training
### Occupations With High Expected Pace Of Job Gain

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Growth Rate</th>
<th>Growth</th>
<th>Average Wage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Health Aides</td>
<td>33.4%</td>
<td>10,740</td>
<td>$ 9.76</td>
</tr>
<tr>
<td>Computer Software Engineers</td>
<td>30.0%</td>
<td>3,480</td>
<td>$ 36.67</td>
</tr>
<tr>
<td>Medical Assistants</td>
<td>29.9%</td>
<td>5,340</td>
<td>$ 13.34</td>
</tr>
<tr>
<td>Pharmacy Technicians</td>
<td>27.1%</td>
<td>2,800</td>
<td>$13.25</td>
</tr>
<tr>
<td>Customer Service Reps.</td>
<td>21.4%</td>
<td>13,880</td>
<td>$ 15.98</td>
</tr>
<tr>
<td>Social &amp; Human Service Assts</td>
<td>19.6%</td>
<td>2,260</td>
<td>$ 14.06</td>
</tr>
<tr>
<td>Registered Nurses</td>
<td>19.1%</td>
<td>16,130</td>
<td>$29.34</td>
</tr>
<tr>
<td>Industrial Engineers</td>
<td>18.8%</td>
<td>4,190</td>
<td>$36.99</td>
</tr>
<tr>
<td>Computer Systems Analysts</td>
<td>18.6%</td>
<td>3,210</td>
<td>$37.54</td>
</tr>
</tbody>
</table>
So, What’s a Specific Example of Putting Industry & Occupational Information to Use??

- Your job involves work with a seasonal migrant worker. They indicate a desire to stay in your region and switch to more stable, full-time work. What resources can identify favorable local industries or occupations for them to consider?
  - What are the largest local industries that generate lots of jobs?
    - Use the Quarterly Census of Employment & Wages database to identify the largest industries by employment size
    - Use the same source to identify which industry sectors have added jobs in your county over the past two years
  - What detailed occupations have the best long-term outlook for job growth?
    - Use the data on Occupational Employment Forecasts 2004-2014 for your region to identify jobs with an above average forecast growth rate or an above average number of annual job openings
  - What are the average wage rates for some of these jobs?
    - The website can provide average wages or wage ranges for many occupations in regions throughout the state
Mass Layoff Statistics

- Provides information on mass layoffs involving:
  - 50 or more workers
  - Duration of at least 31 days
- Provides information on:
  - Demographic characteristics of workers affected
  - Reason given by employer for the layoff
  - Breakdowns by industry
Other LMI Products
Annual Planning Information Report

- Published for each of Michigan’s 25 MWA’s
- Used by local planners
- Includes information on population, labor force, industries, occupations & skills
- Available at www.michigan.gov/lmi (Click on Publications)
Career Outlook Brochure

- Provides career outlook information for 18 regions
- Highlights fast-growing occupations by education or training requirement, and occupations supplying a large number of local job openings
- Useful to jobseekers, persons seeking a career change & students
- Outlook 2014 brochures available soon
LMI Quick Reference Guide

- Publication designed to answer the following questions:
  - What are the key LMI data sets?
  - Why are they important and how can they be used?
  - What are the step-by-step instructions for pulling these data sets off the web?
  - What useful information products and websites exist?
Talent Bank Job Seeker Summaries

- Produced quarterly for all 25 Michigan Works! agency areas.
- Provides a customized occupational distribution of Talent Bank applicants and job orders.
- Also gives an educational breakdown for applicants.
- Good tool for providing snapshot of regional Talent Bank labor pool.
Other LMI Products

- Affirmative Action Report
- Michigan’s Labor Market News
- LMI Presentations
- Joint LMI conferences
- Regional analysts/consultants
Recent LMI Initiatives
Recent LMI Initiatives

- Michigan Economic & Workforce Indicators
- Innovation Indicators
- Michigan’s Hot 50 Jobs
- Job Vacancy Survey
- Business Employment Dynamics
- Local Employment Dynamics
- Study on Green Jobs in Michigan
Job Vacancy Survey

- Annual employer survey and report
  - Statewide and regional data
- Detailed information on area job vacancies
- Methodology designed by a consortium of states
What Can The Job Vacancy Survey Provide For You?

- A measure of hiring demand for workers
  - By region, industry & occupation
- An analysis of the characteristics of job vacancies
  - By occupational group & industry
  - Wages & benefits
  - Education & experience requirements
  - Location of job openings
Major Components of Business Employment Dynamics (BED)

- BED data decompose net employment changes into:
  - Gross job gains:
    - Openings
    - Expansions
  - Gross job losses:
    - Closings
    - Contractions
Local Employment Dynamics

- Joint Program between states and U.S. Census Bureau
- Provides 29 workforce indicators by worker age & gender, by county and workforce board area
  - Among these indicators:
    - Job creation
    - Job destruction
    - Net job flows
    - New hires
    - Turnover
    - Average earnings for new hires

- Provides ability to measure job creation at local level, by worker demographics by industry
- Allows mapping of labor sheds and regional commuting patterns
- No new employer reporting burden
LED Quarterly Workforce Indicators

- Total Employment
- Net Job Flows
- Job Creation
- New Hires
- Separations
- Turnover
- Average Monthly Earnings
- Average New Hire Earnings

All Quarterly Workforce Indicators can be analyzed at the detailed industry level.
LED - What’s In It For Local Workforce Information Users?

• LED data sheds light on the following workforce questions…..
  – “How much job creation is occurring in industries with a net loss of jobs?”
  – “Which industries pay the best wage to new hires?”
  – “What are key benchmarks around turnover and retention?”
  – “What are the top industry sectors for focusing workforce and economic development time and resources?”
  - “What is the pattern of new hires in my area?”
  - “What are the characteristics of the labor pool of recently employed persons in my area?”
Output of QWI Comparison Report
Charts

Ingham, Michigan

New Hires by Age Group

<table>
<thead>
<tr>
<th>Age Group</th>
<th>14-18</th>
<th>19-21</th>
<th>22-24</th>
<th>25-34</th>
<th>35-44</th>
<th>45-54</th>
<th>55-64</th>
<th>65-99</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005 1; New Hires</td>
<td>1,414</td>
<td>3,041</td>
<td>2,636</td>
<td>4,726</td>
<td>3,659</td>
<td>2,708</td>
<td>1,132</td>
<td>321</td>
</tr>
<tr>
<td>2005 2; New Hires</td>
<td>2,679</td>
<td>4,754</td>
<td>3,557</td>
<td>5,613</td>
<td>4,091</td>
<td>3,116</td>
<td>1,275</td>
<td>374</td>
</tr>
<tr>
<td>2005 3; New Hires</td>
<td>2,938</td>
<td>4,214</td>
<td>3,260</td>
<td>6,180</td>
<td>4,358</td>
<td>3,257</td>
<td>1,427</td>
<td>349</td>
</tr>
<tr>
<td>2005 4; New Hires</td>
<td>1,859</td>
<td>3,475</td>
<td>3,028</td>
<td>5,387</td>
<td>4,001</td>
<td>3,035</td>
<td>1,313</td>
<td>340</td>
</tr>
</tbody>
</table>
Industry Focus
Identify Top Sectors Based on Custom Rankings

Industry Focus: Selecting Top Industries

List the top industries ranked by the greatest:

<table>
<thead>
<tr>
<th>Ranking Indicator (Select One)</th>
<th>Include in report (Select One or More)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Employment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth in Employment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth in Hiring</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of New Hires</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Firm Job Change</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Average Monthly Earnings for All Workers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth in Average Monthly Earnings for All Workers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Average Monthly Earnings for New Hires</td>
</tr>
</tbody>
</table>

Age and Sex:
- Age: 14-99
- Sex: Male and Female

Geography:
- State: Michigan

Entity:
- Statewide
- WIA
- County
- Metro Area

Select Industry Level:
- Industry Sector
- Industries

Industry Sector: All Sectors

View Report  Download CSV  Create PDF
Some industries display some major New Hire Earnings differences among women and men in prime working ages.

![Bar chart showing New Hire Earnings by Age and Gender](chart.png)

**Table: New Employee Average Monthly Earnings by Age and Sex**

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Female</th>
<th>Male</th>
</tr>
</thead>
<tbody>
<tr>
<td>14-18</td>
<td>838.94</td>
<td>951.85</td>
</tr>
<tr>
<td>19-21</td>
<td>1,407</td>
<td>2,585</td>
</tr>
<tr>
<td>22-24</td>
<td>2,642</td>
<td>3,646</td>
</tr>
<tr>
<td>25-34</td>
<td>2,741</td>
<td>5,430</td>
</tr>
<tr>
<td>35-44</td>
<td>2,502</td>
<td>4,919</td>
</tr>
<tr>
<td>45-54</td>
<td>1,970</td>
<td>3,717</td>
</tr>
<tr>
<td>55-64</td>
<td>1,127</td>
<td>4,373</td>
</tr>
<tr>
<td>65-99</td>
<td>2,135</td>
<td>3,879</td>
</tr>
<tr>
<td>All Ages</td>
<td>8,578</td>
<td>17,687</td>
</tr>
</tbody>
</table>
OnTheMap Labor Shed Map
Holland, Michigan Workers – Where Do They Live?
So, What’s a Specific Example of Putting Local Employment Dynamics Data to Use??

- Your job involves working with a local employer. The employer needs information on the size and characteristics of the local labor pool for an expansion or new plant location they are considering. What resources can you use to assist them?
  - Where do current workers live within a 20 mile radius of their location? What is the industry breakdown of those workers, and what are their average pay ranges?
    - Use the OnTheMap feature in LED to produce a labor shed map and an accompanying table showing the characteristics of those workers
  - Based on the firm’s industry, how likely is it that their sector faces labor shortages due to an aging workforce?
    - Use the LED data on the age distribution of current workers to show whether their industry locally has an above average share of workers over age 55
  - What are the trends in wages for new hires in their industry? Are wage rates stable, rising, or falling locally for new hires?
    - New hire wages is one of the LED Quarterly Workforce Indicators
Michigan Labor Market Information Website

Michigan Fast Facts

**Michigan Unemployment Rate** (Seasonally Adjusted)
August 2008 8.9%
Change Over Month +0.4
Change Over Year +1.7

**Michigan Payroll Jobs** (Seasonally Adjusted)
August 2008 4,197,000
Change Over Month 20,000
Change Over Year -70,000

**Detroit Consumer Prices**
August 2008 209.5
Change Over Year +4.9

michigan.gov/lmi
Michigan Labor Market Information Website

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Michigan Unemployment Rate
(Seasonally Adjusted)

- August 2008: 8.9%
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> View: Michigan Employment Snapshot
> Access: Historical Unemployment Rates

Michigan Payroll Jobs
(Seasonally Adjusted)

- August 2008: 4,197,000
- Change Over Month: -20,000
- Change Over Year: -70,000

> View: Michigan Seasonally Adjusted Job Levels by Industry
> View: Current Michigan Unadjusted Job Levels by Industry
> Access: Historical Job Levels by Industry & Area

Detroit Consumer Prices

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michigan.gov/lmi
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Additional Resources
LMI Quick Reference Guide
# Workforce Partners

## Michigan Job Growth by Occupational Group

**2006 - 2016**

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Jobs</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthcare Support</td>
<td>27,410</td>
<td>20.0</td>
</tr>
<tr>
<td>Healthcare Practitioners and Technical</td>
<td>37,050</td>
<td>15.0</td>
</tr>
<tr>
<td>Computer and Mathematical</td>
<td>14,570</td>
<td>14.5</td>
</tr>
<tr>
<td>Community and Social Services</td>
<td>9,000</td>
<td>13.1</td>
</tr>
<tr>
<td>Personal Care and Service</td>
<td>17,920</td>
<td>12.4</td>
</tr>
<tr>
<td>Building &amp; Grounds Cleaning &amp; Maintenance</td>
<td>19,390</td>
<td>11.6</td>
</tr>
<tr>
<td>Business and Financial Operations</td>
<td>21,750</td>
<td>10.2</td>
</tr>
<tr>
<td>Food Preparation and Serving Related</td>
<td>34,300</td>
<td>9.4</td>
</tr>
<tr>
<td>Life, Physical, and Social Science</td>
<td>3,410</td>
<td>9.0</td>
</tr>
<tr>
<td>Legal</td>
<td>2,750</td>
<td>9.2</td>
</tr>
<tr>
<td>Education, Training, and Library</td>
<td>24,200</td>
<td>9.0</td>
</tr>
<tr>
<td>Architecture and Engineering</td>
<td>11,540</td>
<td>8.1</td>
</tr>
<tr>
<td>Arts, Design, Entertainment, Sports, &amp; Media</td>
<td>6,250</td>
<td>8.0</td>
</tr>
<tr>
<td>Protective Service</td>
<td>5,930</td>
<td>7.0</td>
</tr>
<tr>
<td>Construction and Extraction</td>
<td>11,710</td>
<td>6.4</td>
</tr>
<tr>
<td>Sales and Related</td>
<td>30,380</td>
<td>6.2</td>
</tr>
<tr>
<td>Installation, Maintenance, and Repair</td>
<td>11,020</td>
<td>5.9</td>
</tr>
<tr>
<td>Office and Administrative Support</td>
<td>23,930</td>
<td>3.4</td>
</tr>
<tr>
<td>Management</td>
<td>8,350</td>
<td>3.1</td>
</tr>
<tr>
<td>Transportation and Material Moving</td>
<td>9,700</td>
<td>2.8</td>
</tr>
<tr>
<td>Farming, Fishing, and Forestry</td>
<td>130</td>
<td>0.3</td>
</tr>
<tr>
<td>Production</td>
<td>-14,430</td>
<td>-3.1</td>
</tr>
</tbody>
</table>

**What’s New**

**Michigan Economic and Workforce Indicators - Summer 2008** This report tracks Michigan labor market trends on a series of indicators related to the workforce, knowledge-based jobs, innovation, education, and the economy. It provides a concise analysis of recent trends in these indicators as well as national or regional comparisons.

**Local Employment Dynamics** is a new tool that delivers county economic indicators not previously available with demographic detail. Job Creation, New Hires, Turnover, New Hire Earnings, and more!

**Innovation Indicators** This report presents an overview of Michigan’s performance on a series of measures related to economic innovation.

**21st Century Industry Sector Analysis** - 19 customized regional information packages with data on regional economic indicators, and industry data such as growth, core, and competitive-advantage industries.

**Key Demand Occupations - 2012** Identify high demand occupations in Michigan and 19 regions with information on educational...
Michigan Labor Market Information Website

Michigan Fast Facts

Michigan Unemployment Rate
(Seasonally Adjusted)

<table>
<thead>
<tr>
<th>August 2008</th>
<th>8.9%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change Over Month</td>
<td>+0.4</td>
</tr>
<tr>
<td>Change Over Year</td>
<td>+1.7</td>
</tr>
</tbody>
</table>

» View: Michigan Employment Snapshot
» Access: Historical Unemployment Rates

Michigan Payroll Jobs
(Seasonally Adjusted)

<table>
<thead>
<tr>
<th>August 2008</th>
<th>4,197,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change Over Month</td>
<td>-20,000</td>
</tr>
<tr>
<td>Change Over Year</td>
<td>-70,000</td>
</tr>
</tbody>
</table>

» View: Michigan Seasonally Adjusted Job Levels by Industry
» View: Current Michigan Unadjusted Job Levels by Industry
» Access: Historical Job Levels by Industry & Area

Detroit Consumer Prices

<table>
<thead>
<tr>
<th>August 2008</th>
<th>209.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change Over Year</td>
<td>+4.9%</td>
</tr>
</tbody>
</table>

michigan.gov/lmi
## Unemployment Statistics (LAUS)

<table>
<thead>
<tr>
<th>Year</th>
<th>Period</th>
<th>Area</th>
<th>Adjusted</th>
<th>Preliminary</th>
<th>Labor Force</th>
<th>Employment</th>
<th>Unemployment</th>
<th>Jobless Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>Jul</td>
<td>Ann Arbor, MI</td>
<td>Not Pre</td>
<td>196,859</td>
<td>173,412</td>
<td>12,439</td>
<td>6.9</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>Jul</td>
<td>Battle Creek, MI</td>
<td>Not Pre</td>
<td>69,720</td>
<td>62,559</td>
<td>6,161</td>
<td>9.9</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>Jul</td>
<td>Bay City, MI</td>
<td>Not Pre</td>
<td>55,449</td>
<td>50,712</td>
<td>4,737</td>
<td>8.5</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>Jul</td>
<td>Detroit-Warren</td>
<td>Not Pre</td>
<td>2,158,000</td>
<td>1,955,000</td>
<td>203,000</td>
<td>9.4</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>Jul</td>
<td>Flint, MI</td>
<td>Not Pre</td>
<td>202,098</td>
<td>177,195</td>
<td>24,903</td>
<td>12.3</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>Jul</td>
<td>Holland-Grand Haven, MI</td>
<td>Not Pre</td>
<td>136,624</td>
<td>126,103</td>
<td>10,521</td>
<td>7.7</td>
<td></td>
</tr>
</tbody>
</table>
Additional Features of the Website

- Labor Market Tools
  - Local area economic profiles
  - Compare Occupations
  - Compare Areas
  - Find Employers
  - Training providers & programs
Bureau of Labor Statistics Website

Latest from BLS

www.bls.gov

Economic News Releases

Regional and State Employment and Unemployment (Monthly)

September 19, 2008

In August, 44 states and the District of Columbia recorded over-the-month unemployment rate increases, 5 states registered decreases, and 1 state had no change. Nonfarm payroll employment increased in 32 states and the District of Columbia, and decreased in 18 states.

Full Text »

Consumer Price Index

September 16, 2008

On a seasonally adjusted basis, the CPI-U decreased 0.1 percent in August, following a 0.9 percent increase in July.

Latest Numbers

Consumer Price Index (CPI):
-0.1% in Aug 2008

Unemployment Rate:
6.1% in Aug 2008

Payroll Employment:
-84,000(p) in Aug 2008

Average Hourly Earnings:
+$0.37(p) in Aug 2008

Producer Price Index (PPI):
-0.9% (p) in Aug 2008

Employment Cost Index (ECI):
10.7% in 2nd Qtr of 2008

Productivity:
14.9% in 2nd Qtr of 2008

Import Price Index:
-3.7% in Aug 2008
Welcome to O*NET™ OnLine!

Making occupational information interactive and accessible for all...

About New Data in OnLine

Find Occupations
Find occupations using keywords, O*NET-SOC codes, Job Families, or by viewing a complete list.

Skills Search
Use a list of your skills to find matching O*NET-SOC occupations.

Crosswalk
Use other classification systems (DOT, SOC, MOC, and RAIS) to find matching O*NET-SOC occupations.

If your search identifies occupations that require skills or abilities that may be difficult to use because of a health problem or disability, please consider job accommodations. Accommodations may involve a change in the work environment, the way a specific job is performed, or the use of special equipment.

http://online.onetcenter.org
<table>
<thead>
<tr>
<th>Importance</th>
<th>Level</th>
<th>Code</th>
<th>Occupation</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>9</td>
<td>47-2043 00</td>
<td>Floor Sanders and Finishers</td>
</tr>
<tr>
<td>5</td>
<td>14</td>
<td>51-9071 06</td>
<td>Gem and Diamond Workers</td>
</tr>
<tr>
<td>5</td>
<td>17</td>
<td>51-9071 01</td>
<td>Jewelers</td>
</tr>
<tr>
<td>8</td>
<td>12</td>
<td>47-2142 00</td>
<td>Pangasius</td>
</tr>
<tr>
<td>8</td>
<td>17</td>
<td>47-2072 00</td>
<td>Pile-Driver Operators</td>
</tr>
<tr>
<td>10</td>
<td>14</td>
<td>49-9035 00</td>
<td>Fabric Menders, Except Garment</td>
</tr>
<tr>
<td>12</td>
<td>9</td>
<td>51-2093 00</td>
<td>Timing Device Assemblers, Adjusters, and Calibrators</td>
</tr>
<tr>
<td>12</td>
<td>9</td>
<td>51-9196 05</td>
<td>Potters, Manufacturing</td>
</tr>
<tr>
<td>13</td>
<td>17</td>
<td>47-5051 00</td>
<td>Rock Splitters, Quarry</td>
</tr>
<tr>
<td>13</td>
<td>17</td>
<td>47-5041 00</td>
<td>Continuous Mining Machine Operators</td>
</tr>
<tr>
<td>13</td>
<td>19</td>
<td>51-9071 07</td>
<td>Precious Metal Workers</td>
</tr>
<tr>
<td>13</td>
<td>21</td>
<td>53-7035 00</td>
<td>Loading Machine Operators, Underground Mining</td>
</tr>
<tr>
<td>14</td>
<td>18</td>
<td>47-4931 00</td>
<td>Segmental Pavers</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td>45-4021 00</td>
<td>Fallers</td>
</tr>
<tr>
<td>17</td>
<td>24</td>
<td>53-7031 00</td>
<td>Dredge Operators</td>
</tr>
<tr>
<td>19</td>
<td>19</td>
<td>45-4022 00</td>
<td>Logging Equipment Operators</td>
</tr>
<tr>
<td>19</td>
<td>18</td>
<td>41-9012 00</td>
<td>Models</td>
</tr>
<tr>
<td>21</td>
<td>24</td>
<td>51-4372 00</td>
<td>Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders,</td>
</tr>
<tr>
<td>22</td>
<td>21</td>
<td>51-4091 00</td>
<td>Metal Forming Nonferrous Operators, and Tenders, Metal and Plastic</td>
</tr>
</tbody>
</table>
Browse by O*NET Descriptor

O*NET Descriptors are categories of occupational information collected and available for O*NET-SOC occupations. Each descriptor contains more specific elements with data ratings.

Abilities — Physical Abilities

Abilities that influence strength, endurance, flexibility, balance and coordination

- **Dynamic Flexibility** — The ability to quickly and repeatedly bend, stretch, twist, or reach out with your body, arms, and/or legs.
- **Dynamic Strength** — The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.
- **Explosive Strength** — The ability to use short bursts of muscle force to propel oneself (as in jumping or sprinting), or to throw an object.
- **Extent Flexibility** — The ability to bend, stretch, twist, or reach with your body, arms, and/or legs.
- **Gross Body Coordination** — The ability to coordinate the movement of your arms, legs, and torso together when the whole body is in motion.
- **Gross Body Equilibrium** — The ability to keep or regain your body balance or stay upright when in an unstable position.
- **Stamina** — The ability to exert yourself physically over long periods of time without getting winded or out of breath.
- **Static Strength** — The ability to exert maximum muscle force to lift, push, pull, or carry objects.
- **Trunk Strength** — The ability to use your abdominal and lower back muscles to support part of the body repeatedly or continuously over time without ‘giving out’ or fatiguing.
How to Obtain Labor Market Information

➢ On the Web
  ➢ Address  www.michigan.gov/lmi

➢ Detroit Labor Market Analysis Section
  ➢ Telephone  313/456-3090

➢ Regional Labor Market Analysts
  ➢ Leonidas Murembya  murembyal@michigan.gov
  ➢ Jason Palmer  palmerj2@michigan.gov
  ➢ Mark Reffitt  reffittm@michigan.gov
Labor Market Information:
What Can It Tell You About Workforce Trends in Michigan and Your Local Region?

Bruce Weaver
DLEG – Bureau of Labor Market Information
September 25, 2008
Labor Market Information PowerPoint will be posted on www.michigan.gov/bwt in the next few days.

Please send an email to paffordj@michigan.gov to request a copy of the PowerPoint.

Today’s Presenter was Bruce Weaver
weaverb@michigan.gov
313-456-3091