Workforce & Economic Outlook

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Chief Economist
Wisconsin Department of Workforce Development
What, Me Worry?
Current expansion; July 2009 - ?
116 months (March)

- There have been 11 business cycles since 1945
- There have been 33 business cycles since 1854
- Average post-war recession lasted 11.1 months
- Great Recession lasted 18 months
- Great Depression lasted 43 months
- Recession of 1873 lasted 65 months

Longest expansion on record – March 1991- March 2001

- April 1961- December 1969; 106 months
- December 1982 – July 1990; 92 months
- July 1938 - October 1945; 80 months
- December 2001 – December 2007; 73 months

Average post-WWII expansion – 58.4 months

- July 1861 – April 1865; 46 months
How Employment is Tracking

JOLTS Report for Total Nonfarm Employment: Job Openings and Labor Turnover

Monthly data points with the solid lines showing their six-month moving averages.

Rapid growth with data through November 2019.
Projected Population Change
2015 - 2035

Source: WI Dept. of Administration Demographic Services Center and U.W.-Madison Applied Population Lab
Projected Population Change
2015 – 2025

People Aged 65 & Older

Legend
- 5.5% or less
- 5.6% - 6.5%
- 6.6% - 7.5%
- 7.6% - 8.5%
- 8.6% - 9.5%
- More than 9.5%
Wisconsin’s Workforce Growth
The New Economy

Wisconsin Population and Labor Force

Source: Bureau of Labor Statistics, OEA
WI Construction Employment

Source: Current Employment Statistics (CES), Bureau of Labor Statistics (BLS)
Data is for the private sector and is seasonally adjusted
2018 values have not undergone benchmarking, Nov 2018 is preliminary
NEW Construction Employment

Index: Jan 2001=100

- Wisconsin
- NEW

June 2018
WI: 98.4
NEW: 97.8

Source: Quarterly Census of Employment and Wages (QCEW), Bureau of Labor Statistics (BLS)
Data is for the private sector
NEW refers to the 18 counties that make up The New North EDO. However, data does not include Menominee, Florence, Marquette, and Shawano Counties due to data availability over the time series
Seasonally Adjusted using Census Bureau's X11 Methodology
WI Demographics - Age

**Age of WI Construction Workers**

- 1997
- 2017

**Age of NEW Construction Workers**

- 1997
- 2017

Source: Quarterly Workforce Indicators (QWI), US Census Bureau LEHD
## WI Demographics - Gender and Race/Ethnicity

### Wisconsin

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Labor Force</td>
<td>52.2%</td>
<td>47.8%</td>
</tr>
<tr>
<td>Construction Industry</td>
<td>90.8%</td>
<td>9.2%</td>
</tr>
</tbody>
</table>

### NEW

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<td>Overall Labor Force</td>
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<td>91.9%</td>
<td>8.1%</td>
</tr>
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</table>


Source: 2017 1-YR American Community Survey (ACS). Factfinder.census.gov; IPUMS Online Data Analysis System (2017 1-YR American Community Survey); IPUMS-USA, University of Minnesota, www.ipums.org
### NEW Demographics - Gender and Race/Ethnicity

**Wisconsin**

<table>
<thead>
<tr>
<th>Race/Ethnicity (%)</th>
<th>White</th>
<th>Hispanic or Latino</th>
<th>Black or African American</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Labor Force</td>
<td>83.8%</td>
<td>6.2%</td>
<td>5.1%</td>
</tr>
<tr>
<td>Construction Industry</td>
<td>90.2%</td>
<td>5.3%</td>
<td>2.4%</td>
</tr>
</tbody>
</table>

**NEW**

<table>
<thead>
<tr>
<th>Race/Ethnicity (%)</th>
<th>White</th>
<th>Hispanic or Latino</th>
<th>Black or African American</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Labor Force</td>
<td>89.9%</td>
<td>4.2%</td>
<td>1.0%</td>
</tr>
<tr>
<td>Construction Industry</td>
<td>92.0%</td>
<td>3.7%</td>
<td>1.1%</td>
</tr>
</tbody>
</table>

*“Labor Force” includes employed and unemployed. “Construction Industry” includes employed. “White” refers to White Non-Hispanic. NEW comprises the 18 counties that make up The New North EDO.*

*Source: IPUMS Online Data Analysis System (2017 1-YR American Community Survey); IPUMS-USA, University of Minnesota, www.ipums.org*
WI Long-term Industry Employment Projections 2016-2026 by Percent Change

Source: OEA Projections, 2016-2026; NEW comprises the Bay Area and Fox Valley WDAs
### Wisconsin

**WI Annual Average Projected Job Openings 2016-2016 in Construction and Extraction Occupations**

- **Carpenters**
  - Annual Exit: 728
  - Annual Transfers: 1,177
  - Annual Growth: 472

- **Construction Laborers**
  - Annual Exit: 638
  - Annual Transfers: 1,205
  - Annual Growth: 266

- **Electricians**
  - Annual Exit: 418
  - Annual Transfers: 891
  - Annual Growth: 49

- **First-Line Supervisors of Construction Trades and Extraction Workers**
  - Annual Exit: 298
  - Annual Transfers: 586
  - Annual Growth: 95

- **Plumbers, Pipefitters, and Steamfitters**
  - Annual Exit: 311
  - Annual Transfers: 574
  - Annual Growth: 96

- **Operating Engineers and Other Construction Equipment Operators**
  - Annual Exit: 302
  - Annual Transfers: 554
  - Annual Growth: 102

- **Highway Maintenance Workers**
  - Annual Exit: 222
  - Annual Transfers: 301
  - Annual Growth: 79

- **Cement Masons and Concrete Finishers**
  - Annual Exit: 171
  - Annual Transfers: 306
  - Annual Growth: 75

- **Painters, Construction and Maintenance**
  - Annual Exit: 183
  - Annual Transfers: 267
  - Annual Growth: 85

- **Sheet Metal Workers**
  - Annual Exit: 224
  - Annual Transfers: 249
  - Annual Growth: 25

### NEW

**NEW Annual Average Projected Job Openings 2016-2016 in Construction and Extraction Occupations**

- **Carpenters**
  - Annual Exit: 290
  - Annual Transfers: 370
  - Annual Growth: 80

- **Construction Laborers**
  - Annual Exit: 150
  - Annual Transfers: 280
  - Annual Growth: 50

- **Electricians**
  - Annual Exit: 120
  - Annual Transfers: 250
  - Annual Growth: 30

- **Plumbers, Pipefitters, and Steamfitters**
  - Annual Exit: 90
  - Annual Transfers: 190
  - Annual Growth: 50

- **Operating Engineers and Other Construction Equipment Operators**
  - Annual Exit: 70
  - Annual Transfers: 130
  - Annual Growth: 50

- **First-Line Supervisors of Construction Trades and Extraction Workers**
  - Annual Exit: 60
  - Annual Transfers: 130
  - Annual Growth: 70

- **Cement Masons and Concrete Finishers**
  - Annual Exit: 50
  - Annual Transfers: 90
  - Annual Growth: 40

- **Highway Maintenance Workers**
  - Annual Exit: 50
  - Annual Transfers: 80
  - Annual Growth: 30

- **Painters, Construction and Maintenance**
  - Annual Exit: 40
  - Annual Transfers: 60
  - Annual Growth: 20

- **Sheet Metal Workers**
  - Annual Exit: 30
  - Annual Transfers: 60
  - Annual Growth: 30

Source: OEA Projections, 2016-2016
## WI Construction Wages

### Data shows top 10 largest construction and extraction occupations

NEW is a combination of the Fox Valley and Bay Area WDAs (17 Counties)

Source: Occupational Employment Statistics (OES), Bureau of Labor Statistics (BLS)

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Wisconsin Employment</th>
<th>Wisconsin Average Hourly Wage</th>
<th>NEW Employment</th>
<th>NEW Average Hourly Wage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total, All Occupations</td>
<td>2,825,170</td>
<td>$22.24</td>
<td>615,610</td>
<td>$21.18</td>
</tr>
<tr>
<td>Construction and Extraction</td>
<td>102,040</td>
<td>$25.34</td>
<td>25,810</td>
<td>$24.35</td>
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<tr>
<td>Carpenters</td>
<td>15,630</td>
<td>$23.85</td>
<td>4,190</td>
<td>$23.51</td>
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<tr>
<td>Construction Laborers</td>
<td>13,780</td>
<td>$20.51</td>
<td>3,310</td>
<td>$18.72</td>
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<tr>
<td>Electricians</td>
<td>11,000</td>
<td>$28.16</td>
<td>3,120</td>
<td>$26.82</td>
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<tr>
<td>Supervisors of Construction and Extraction Workers</td>
<td>9,130</td>
<td>$33.78</td>
<td>2,340</td>
<td>$30.13</td>
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<tr>
<td>Operating Engineers and Other Construction Equipment Operators</td>
<td>8,000</td>
<td>$29.03</td>
<td>1,840</td>
<td>$32.31</td>
</tr>
<tr>
<td>Plumbers, Pipefitters, and Steamfitters</td>
<td>7,300</td>
<td>$32.05</td>
<td>1,720</td>
<td>$27.71</td>
</tr>
<tr>
<td>Highway Maintenance Workers</td>
<td>5,660</td>
<td>$20.37</td>
<td>1,420</td>
<td>$22.50</td>
</tr>
<tr>
<td>Cement Masons and Concrete Finishers</td>
<td>4,750</td>
<td>$24.12</td>
<td>1,380</td>
<td>$19.71</td>
</tr>
<tr>
<td>Sheet Metal Workers</td>
<td>4,110</td>
<td>$26.04</td>
<td>1,040</td>
<td>$24.26</td>
</tr>
<tr>
<td>Painters, Construction and Maintenance</td>
<td>3,180</td>
<td>$21.02</td>
<td>650</td>
<td>$19.82</td>
</tr>
</tbody>
</table>
Questions?

Dennis.Winters@dwd.Wisconsin.gov