State of Energy – Colorado

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Business Research Division
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State Employment Growth
Year-over-Year September 2017

Source: Bureau of Labor Statistics (Seasonally Adjusted).
County Employment Growth
Colorado Year-over-Year Change

Year-over-Year Growth
• 70% of rural counties
• 82% of urban counties
• 17 still in decline

**Employment**

YoY Percent Change

Source: Bureau of Labor Statistics, CES.
Mining
Share of Nominal GDP, 2014 and 2016

Source: BEA.
Colorado Energy Rankings (2016)

- 7th Total Energy
- 7th for Crude Oil
- 5th for Natural Gas
- 11th for Coal
- 10th for Solar
- 9th for Wind
- 34th for Electricity Consumption

Sources: Energy Information Administration. Note: Wind and solar based on electricity production.
Value of Natural Resources
Colorado

Sources: Colorado Geological Survey Mineral and Minerals Fuel Activity Reports, Colorado Oil and Gas Conservation Commission, Department of Minerals and Geology, and Colorado Business Economic Outlook Committee.
Wind and Solar

Source: Energy Information Administration, State Profile and Energy Estimates.
Colorado Oil Production by County
2016
Colorado Oil and Gas Employment by County

2016
## Crude Oil Production

### 2006-2017

<table>
<thead>
<tr>
<th>Largest Producers</th>
<th>Millions of Barrels</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Texas</td>
<td>140</td>
</tr>
<tr>
<td>2. North Dakota</td>
<td>120</td>
</tr>
<tr>
<td>3. California</td>
<td>100</td>
</tr>
<tr>
<td>4. New Mexico</td>
<td>80</td>
</tr>
<tr>
<td>5. Oklahoma</td>
<td>60</td>
</tr>
<tr>
<td>6. Alaska</td>
<td>80</td>
</tr>
<tr>
<td>7. <strong>Colorado</strong></td>
<td>60</td>
</tr>
<tr>
<td>8. Wyoming</td>
<td>40</td>
</tr>
<tr>
<td>9. Louisiana</td>
<td>20</td>
</tr>
<tr>
<td>10. Kansas</td>
<td>10</td>
</tr>
</tbody>
</table>

### Sources:

Rankings from the Energy Information Administration. Production from the Colorado Oil and Gas Conservation Commission.
Colorado (ex. Weld) Oil Production

Source: Colorado Oil and Gas Conservation Commission.
Weld County Oil Production

Source: Colorado Oil and Gas Conservation Commission.
Colorado Annual Drilling Permits
2000-2017

Source: COGCC.
Drilling Permits by County
2017 August YTD

Permits

<table>
<thead>
<tr>
<th>County</th>
<th>Permits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD</td>
<td>1,547</td>
</tr>
<tr>
<td>GARFIELD</td>
<td>381</td>
</tr>
<tr>
<td>MESA</td>
<td>132</td>
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<tr>
<td>ADAMS</td>
<td>111</td>
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<tr>
<td>LA PLATA</td>
<td>80</td>
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<tr>
<td>ARAPAHOE</td>
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<tr>
<td>RIO BLANCO</td>
<td>34</td>
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<tr>
<td>LARimer</td>
<td>28</td>
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<tr>
<td>GRAND...</td>
<td>20</td>
</tr>
<tr>
<td>JACKSON</td>
<td>16</td>
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<tr>
<td>LINCOLN</td>
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<td>ARCHULETA</td>
<td>13</td>
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<tr>
<td>WASHINGTON</td>
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<tr>
<td>MONTEZUMA</td>
<td>6</td>
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<tr>
<td>MOFFAT</td>
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<tr>
<td>CROWLEY</td>
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<tr>
<td>BACA</td>
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</tr>
<tr>
<td>DOLORES</td>
<td>1</td>
</tr>
<tr>
<td>ELBERT</td>
<td>1</td>
</tr>
<tr>
<td>FREMONT</td>
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</tr>
</tbody>
</table>

83% of Permits

Source: COGCC Staff Reports.
Well Starts by County
2000-2017

Source: COGCC Staff Reports.
Market Share of Colorado Production
Weld County

Monthly Market Share

Source: Bureau of Labor Statistics
U.S. Coal Production

Coal Production
2007-2017

- Lowest production levels since the mid-1990s
- State ranking slipped to 11th in 2016
- Government mandates for renewables limiting production of coal
- Decreasing demand from TVA
- Power plants divesting from coal

Sources: Colorado Geological Survey Mineral and Mineral Fuel Activity Reports, Colorado Oil and Gas Conservation Commission, Department of Minerals and Geology, and Colorado Business Economic Outlook Committee.
Colorado O&G Severance Taxes

Sources: Energy Information Administration (EIA), Cushing, OK WTI Spot Price FOB; Colorado Department of Revenue.
Employment Growth
Counties with High Concentrations of Industry Employment

Oil and Gas Counties
Coal Counties
All Other Counties

Source: Bureau of Labor Statistics, QCEW.
Thank You!