Oil Shale
Social and Economic Factors

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Social and Economic Baseline Work

- Place impacts in context of current economy
- Example – Los Angeles County produces more crude oil than Utah
- Define the Region
- Historical and Current Trends
- Population, Employment, Income, Earnings
- Industrial Structure
Data Sources

- Bureau of the Census
  Decennial Census, Population Estimates and Forecasts, Household Income Estimates
- Bureau of Labor Statistics
  Quarterly Census of Employment and Wages
  Local Area Unemployment Statistics
- Bureau of Economic Analysis
  Personal Income Data
- State Labor Market Information
- Energy Information Administration
  Oil and Gas Production Data
  Refinery Capacity
Issue – Changing Industrial Structure in the Intermountain West

- Historically – Heavy reliance on natural resource extraction and agriculture.
- Many studies find increasing reliance on investment income.
- Persons moving to the Intermountain west for the environment.
- Conflict between the natural resource-based economy and the “new west.”
Examine Sources of Income

- BEA Personal Income Data
- County Level
- Total Personal Income
- Net Earnings by Place of Residence
- Dividends, Interest and Rent
- Personal Current Transfer Receipts
- Earnings by Place of Work by Industry
Example – Teton County, Wyoming
Teton County, Wyoming
Per Capita Personal Income
Oil Shale Area
Oil Shale Area

- Garfield, Moffat, Rio Blanco Counties, Colorado; Duchesne, Uintah Counties, Utah
- Workforce (Dec. 2007) – 75,720
- Local Economy
  - Duchesne and Uintah – Oil and Gas
  - Moffat and Rio Blanco – Oil, Gas, Coal, Power
  - Garfield – Tourism, Oil, Gas, Coal, Agriculture
## Future Population and Labor Force
(Duchesne, Uintah, Garfield, Moffat, Rio Blanco Counties)

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
<th>Labor Force</th>
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<tbody>
<tr>
<td>2000</td>
<td>50,000</td>
<td>200,000 barrels per day shale oil</td>
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<tr>
<td>2005</td>
<td>100,000</td>
<td>11,000 employees</td>
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<tr>
<td>2010</td>
<td>150,000</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>200,000</td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td>250,000</td>
<td></td>
</tr>
<tr>
<td>2025</td>
<td>300,000</td>
<td></td>
</tr>
<tr>
<td>2030</td>
<td>350,000</td>
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</tbody>
</table>

Source: Utah GOPB, Colorado State Demography Office
Five County Oil Shale Area
Total Personal Income
Five County Oil Shale Area
Per Capita Personal Income

- Personal income
- Net earnings by place of residence
- Dividends, interest, and rent
- Personal current transfer receipts

Per Capita Personal Income (2005$)

Oil Shale Area – Per Capita Dividends, Interest and Rent by County
Summary and Future Work

- No influx of wealthy residents in the oil shale area.
- Additional work on industrial structure.
- Which industries are important.
- Population growth.
- Bitumen markets.
- Refinery capacity by unit operation.
- Transportation.