Davis County
Area Deprivation Index (ADI)

Davis County Health Department
Isa Perry
What is ADI?

- ADI data from Intermountain Healthcare & University of Utah
- Geographic area-based measure of the socio-economic deprivation experiences by a neighborhood
- Index developed and validated by Singh (2003) based upon 17 census measures
  - Education
  - Employment
  - Income
  - Living Conditions
- Developed at the census block group level for the state of Utah
- Surrogate measure for impact of deprivation, social determinants, vulnerability
- Davis County Health Department requested county ADI data to use in local community health assessment efforts
Davis County ADI Map
## Davis County Disparity Profiling

### Census mean values, by ADI quintile

<table>
<thead>
<tr>
<th>Category</th>
<th>Census Indicators</th>
<th>Q1-Least</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>Q5-Most</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Income/Poverty</strong></td>
<td>Median family income</td>
<td>$106,756</td>
<td>$83,922</td>
<td>$67,522</td>
<td>$54,399</td>
<td>$44,332</td>
</tr>
<tr>
<td></td>
<td>Income disparity (ratio of low income (&lt;$15,000) to high income (&gt; $75,000))</td>
<td>0.30</td>
<td>0.42</td>
<td>0.55</td>
<td>1.01</td>
<td>1.11</td>
</tr>
<tr>
<td></td>
<td>Families below poverty level, %</td>
<td>3.8%</td>
<td>4.8%</td>
<td>5.4%</td>
<td>10.0%</td>
<td>13.8%</td>
</tr>
<tr>
<td></td>
<td>% population below 150% poverty threshold</td>
<td>7.1%</td>
<td>11.2%</td>
<td>15.7%</td>
<td>20.8%</td>
<td>31.5%</td>
</tr>
<tr>
<td></td>
<td>Single parent households with dependents &lt;18, %</td>
<td>4.7%</td>
<td>6.9%</td>
<td>10.3%</td>
<td>12.8%</td>
<td>16.4%</td>
</tr>
<tr>
<td></td>
<td>Households without a motor vehicle, %</td>
<td>1.0%</td>
<td>1.8%</td>
<td>3.4%</td>
<td>5.9%</td>
<td>8.0%</td>
</tr>
<tr>
<td></td>
<td>Households without a telephone, %</td>
<td>1.0%</td>
<td>1.6%</td>
<td>1.9%</td>
<td>2.3%</td>
<td>2.9%</td>
</tr>
<tr>
<td></td>
<td>Occupied housing units without complete plumbing%</td>
<td>0.2%</td>
<td>0.5%</td>
<td>0.1%</td>
<td>0.2%</td>
<td>0.4%</td>
</tr>
<tr>
<td><strong>Housing</strong></td>
<td>Owner occupied housing units, %</td>
<td>91.9%</td>
<td>85.4%</td>
<td>70.5%</td>
<td>65.0%</td>
<td>55.7%</td>
</tr>
<tr>
<td></td>
<td>Households with &gt;1 person per rm, %</td>
<td>0.5%</td>
<td>1.9%</td>
<td>2.1%</td>
<td>3.6%</td>
<td>3.2%</td>
</tr>
<tr>
<td></td>
<td>Median monthly mortgage, $</td>
<td>$1,998</td>
<td>$1,581</td>
<td>$1,284</td>
<td>$1,197</td>
<td>$966</td>
</tr>
<tr>
<td></td>
<td>Median gross rent, $</td>
<td>$560</td>
<td>$758</td>
<td>$786</td>
<td>$740</td>
<td>$729</td>
</tr>
<tr>
<td></td>
<td>Median home value, $</td>
<td>$328,527</td>
<td>$236,171</td>
<td>$192,106</td>
<td>$158,353</td>
<td>$116,812</td>
</tr>
<tr>
<td><strong>Employment</strong></td>
<td>Employed persons 16+ in white collar occupation, %</td>
<td>51.0%</td>
<td>43.1%</td>
<td>37.2%</td>
<td>29.7%</td>
<td>23.4%</td>
</tr>
<tr>
<td></td>
<td>Civilian labor force unemployed (aged 16+), %</td>
<td>5.0%</td>
<td>4.6%</td>
<td>5.0%</td>
<td>6.4%</td>
<td>7.2%</td>
</tr>
<tr>
<td><strong>Education</strong></td>
<td>Population aged 25+ with &lt;9 yr education, %</td>
<td>0.6%</td>
<td>0.5%</td>
<td>1.2%</td>
<td>1.3%</td>
<td>4.0%</td>
</tr>
<tr>
<td></td>
<td>Population aged 25+ with at least high school education, %</td>
<td>97.7%</td>
<td>97.0%</td>
<td>95.1%</td>
<td>92.9%</td>
<td>87.6%</td>
</tr>
</tbody>
</table>

2010 census data used to create Area Deprivation Index (ADI) and calculate quintile averages.
Key Differences Between Q1 and Q5

- Median family income
  - Q1: $106,756 vs Q5: $44,332

- % population below 150% poverty threshold:
  - Q1: 3.8% vs Q5: 31.5%

- Owner occupied housing units
  - Q1: 91.9% vs Q5: 55.7%

- Employment in white collar occupation
  - Q1: 51.0% vs 23.4%
ADI Distribution

Davis County ADI Score Distribution

Frequency

ADI Score

Q1
Q2
Q3
Q4
Q5
Areas With High ADI (Q5)

- Bountiful
  - 1 Census Block Group
  - 810 residents in Q5
- Clearfield
  - 7 Census Block Groups
  - 9,946 residents in Q5 (apprx 30% of total population)
- Layton
  - 10 Census Block Groups
  - 14,155 residents in Q5 (apprx 20% of total population)
- Sunset
  - 4 Census Block Groups
  - 5,108 residents in Q5 (100% of total population)
- Woods Cross
  - 1 Census Block Group
  - 810 residents in Q5
Acknowledgements & References

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  - Isa Perry, Community Outreach Planner, Davis County Health Department, 801–525–5212 or isa@daviscountyutah.gov
  - Eun Hea Unsicker, U of U MPH Practicum Student, Davis County Health Department