Center for Rural Pennsylvania
Legislative research agency of the Pennsylvania General Assembly (Act 16, 1987)
Mandates
• Administer grants to conduct research on rural conditions.
• Maintain a database on rural conditions and needs.
PaSDC Mission

As Pennsylvania's official source of population and socio-economic statistics, we are committed to the timely and accurate dissemination of statistical information.

- Answer requests
- Data on our website and library
- Assistance using state and federal websites including American Factfinder
- Data manipulation, database design
- Statistical books, trainings, presentations, and more!

Data Sources

- Projections were developed by Pennsylvania State Data Center in 2007-2008
- Projections are based on the demographic cohort component model
  - Base population, Census 2000
  - Group quarters populations are held constant
  - Applied national fertility and survival rates to Pennsylvania
- Projections are just that—projections
  - Useful window to understanding and preparing for change
- Other data sources used today:
  - Pennsylvania Departments of Health, Environmental Protection, and Labor & Industry
  - U.S. Bureaus of Census and Economic Analysis

Cohort Component Model

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Base Population</td>
<td>12,281,054</td>
<td>12,422,685</td>
<td>12,540,718</td>
<td>12,690,711</td>
<td>12,871,823</td>
</tr>
<tr>
<td>Group Quarters (-)</td>
<td>234,474</td>
<td>250,658</td>
<td>250,658</td>
<td>250,658</td>
<td>250,658</td>
</tr>
<tr>
<td>Total Births (+)</td>
<td>720,887</td>
<td>729,872</td>
<td>764,432</td>
<td>790,852</td>
<td>791,262</td>
</tr>
<tr>
<td>Total Deaths (-)</td>
<td>659,070</td>
<td>662,296</td>
<td>660,237</td>
<td>658,054</td>
<td>672,683</td>
</tr>
<tr>
<td>Overseas Migration (+)</td>
<td>84,884</td>
<td>73,184</td>
<td>69,719</td>
<td>71,779</td>
<td>67,262</td>
</tr>
<tr>
<td>Group Quarters (+)</td>
<td>250,658</td>
<td>250,658</td>
<td>250,658</td>
<td>250,658</td>
<td>250,658</td>
</tr>
<tr>
<td>Total Population</td>
<td>12,422,685</td>
<td>12,540,718</td>
<td>12,690,711</td>
<td>12,871,823</td>
<td>13,048,758</td>
</tr>
</tbody>
</table>

Pennsylvania Population Projections Components of Change
What is Rural and Urban?

Rural & Urban Pennsylvania
1900-2030 (proj.)

Green counties are rural, red counties are urban

Pennsylvania Rural Population
1970 to 2030 (proj.)

Data Sources: U.S. Census Bureau & Pennsylvania State Data Center
Pennsylvania Urban Population
1970 to 2030 (proj.)

Population Change by County
1970 to 2000

2000 to 2030 (proj.)

United States Population, 1970 to 2030 (proj.)

Data Source: U.S. Census Bureau

U.S. Population Change 1970-2030

Birth Rates

Data Source: U.S. Census Bureau

1970 to 2000

U.S. Population Change 1970-2030

Data Source: U.S. Census Bureau

2000 to 2030 (proj.)
Birth Rates in United States and Rural and Urban Pennsylvania 1970 to 2008

Data Sources: U.S. Census Bureau & Pennsylvania Dept. of Health

Number of Women in Rural Pennsylvania of Child Producing Age (15 to 44)
1980 to 2030 (proj.)

Data Sources: U.S. Census Bureau & Pennsylvania State Data Center

Fertility Assumptions
Pennsylvania vs United States Total Fertility Rates

Data Sources: U.S. Census Bureau & Pennsylvania Dept. of Health
Migration Assumptions
Pennsylvania Domestic Migration Data 1975-2000 by Age

Young Adult Out-Migration 1995-2000
Persons between 25 and 39 years old who lived in rural Pennsylvania in 1995 and then lived elsewhere in 2000 (111,385 Persons)

Data Source: U.S. Census Bureau

Adult In-Migration 1995-2000
Persons between 40 and 59 years old who lived elsewhere in 1995 and then lived in rural Pennsylvania in 2000 (87,314 Persons)

Data Source: U.S. Census Bureau
### Rural Pennsylvania In- and Out-Migration 1995-2000

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Moved Out of Rural Pennsylvania</th>
<th>Moved Into Rural Pennsylvania</th>
<th>Net Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 19 Years Old</td>
<td>65,312</td>
<td>79,464</td>
<td>14,152</td>
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<tr>
<td>20 to 34 Years Old</td>
<td>145,543</td>
<td>114,735</td>
<td>-30,808</td>
</tr>
<tr>
<td>35 to 44 Years Old</td>
<td>48,191</td>
<td>54,241</td>
<td>6,050</td>
</tr>
<tr>
<td>45 to 59 Years Old</td>
<td>37,063</td>
<td>43,297</td>
<td>6,224</td>
</tr>
<tr>
<td>60 Years Old &amp; Older</td>
<td>32,343</td>
<td>34,541</td>
<td>2,198</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>328,452</strong></td>
<td><strong>326,368</strong></td>
<td><strong>-2,084</strong></td>
</tr>
</tbody>
</table>

Data Source: U.S. Census Bureau

### Out-of-State In-Migration and Out-Migration from Rural Pennsylvania 1999-2000 to 2007-2008

#### Finding #1: Slow Population Growth

Data Source: U.S. Internal Revenue Service
Finding #2: The New Generation Gap

Aging the Population

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>0-4</td>
<td>727,804</td>
<td>715,726</td>
<td>724,902</td>
<td>759,500</td>
<td>786,020</td>
<td>786,814</td>
<td>772,140</td>
<td>44,336</td>
<td>6.1%</td>
</tr>
<tr>
<td>5-9</td>
<td>827,945</td>
<td>732,808</td>
<td>719,896</td>
<td>728,829</td>
<td>763,575</td>
<td>790,841</td>
<td>792,742</td>
<td>-35,203</td>
<td>-4.3%</td>
</tr>
<tr>
<td>10-14</td>
<td>863,849</td>
<td>832,892</td>
<td>737,095</td>
<td>723,998</td>
<td>733,100</td>
<td>768,491</td>
<td>796,715</td>
<td>-67,134</td>
<td>-7.8%</td>
</tr>
<tr>
<td>15-19</td>
<td>850,986</td>
<td>964,163</td>
<td>932,203</td>
<td>836,290</td>
<td>823,463</td>
<td>833,563</td>
<td>870,343</td>
<td>19,357</td>
<td>2.3%</td>
</tr>
<tr>
<td>20-24</td>
<td>746,086</td>
<td>859,312</td>
<td>964,981</td>
<td>933,079</td>
<td>838,580</td>
<td>827,226</td>
<td>839,450</td>
<td>93,364</td>
<td>12.5%</td>
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<tr>
<td>25-29</td>
<td>732,701</td>
<td>677,062</td>
<td>782,304</td>
<td>886,183</td>
<td>855,197</td>
<td>763,588</td>
<td>754,764</td>
<td>22,063</td>
<td>3.0%</td>
</tr>
<tr>
<td>30-34</td>
<td>827,785</td>
<td>736,902</td>
<td>678,328</td>
<td>782,480</td>
<td>886,000</td>
<td>856,621</td>
<td>767,471</td>
<td>-60,314</td>
<td>-7.3%</td>
</tr>
<tr>
<td>35-39</td>
<td>951,400</td>
<td>829,780</td>
<td>737,662</td>
<td>679,322</td>
<td>783,124</td>
<td>887,184</td>
<td>859,590</td>
<td>-91,810</td>
<td>-9.6%</td>
</tr>
<tr>
<td>40-44</td>
<td>996,676</td>
<td>948,389</td>
<td>826,439</td>
<td>735,292</td>
<td>677,941</td>
<td>781,761</td>
<td>886,278</td>
<td>-110,398</td>
<td>-11.1%</td>
</tr>
<tr>
<td>45-49</td>
<td>908,650</td>
<td>985,468</td>
<td>936,638</td>
<td>816,811</td>
<td>727,433</td>
<td>671,642</td>
<td>775,229</td>
<td>-133,421</td>
<td>-14.7%</td>
</tr>
<tr>
<td>50-54</td>
<td>796,382</td>
<td>890,817</td>
<td>965,158</td>
<td>918,268</td>
<td>801,698</td>
<td>714,941</td>
<td>661,146</td>
<td>-135,236</td>
<td>-17.0%</td>
</tr>
<tr>
<td>55-59</td>
<td>619,969</td>
<td>769,820</td>
<td>863,143</td>
<td>936,721</td>
<td>892,722</td>
<td>780,776</td>
<td>697,557</td>
<td>77,588</td>
<td>12.5%</td>
</tr>
<tr>
<td>60-64</td>
<td>511,656</td>
<td>589,833</td>
<td>733,356</td>
<td>824,207</td>
<td>896,719</td>
<td>856,923</td>
<td>751,483</td>
<td>239,827</td>
<td>46.9%</td>
</tr>
<tr>
<td>65-69</td>
<td>480,656</td>
<td>470,521</td>
<td>545,699</td>
<td>681,200</td>
<td>768,481</td>
<td>839,338</td>
<td>804,998</td>
<td>324,342</td>
<td>67.5%</td>
</tr>
<tr>
<td>70-74</td>
<td>488,616</td>
<td>427,960</td>
<td>421,303</td>
<td>491,187</td>
<td>615,963</td>
<td>698,130</td>
<td>766,205</td>
<td>277,589</td>
<td>56.8%</td>
</tr>
<tr>
<td>75-79</td>
<td>422,311</td>
<td>408,626</td>
<td>361,328</td>
<td>358,763</td>
<td>421,634</td>
<td>532,180</td>
<td>607,290</td>
<td>184,979</td>
<td>43.8%</td>
</tr>
<tr>
<td>80-84</td>
<td>290,015</td>
<td>318,051</td>
<td>312,239</td>
<td>280,054</td>
<td>281,584</td>
<td>334,404</td>
<td>426,187</td>
<td>136,172</td>
<td>47.0%</td>
</tr>
<tr>
<td>85+</td>
<td>237,567</td>
<td>264,555</td>
<td>298,044</td>
<td>318,527</td>
<td>318,589</td>
<td>324,335</td>
<td>360,812</td>
<td>123,245</td>
<td>51.9%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>12,281,054</td>
<td>12,422,685</td>
<td>12,540,718</td>
<td>12,690,711</td>
<td>12,871,823</td>
<td>13,048,758</td>
<td>13,190,400</td>
<td>909,346</td>
<td>7.4%</td>
</tr>
</tbody>
</table>

Pennsylvania State Data Center

Table 3: Pennsylvania Population Projections Total by Age

5/12/2008

Population Pyramid 2000

Baby Boomers
Finding #3: Uneven Population Growth
Population Change in Rural Eastern and Western Pennsylvania 1970-2030 (proj.)

Data Sources: U.S. Census Bureau & Pennsylvania State Data Center

Population Change Among Rural Municipalities 1960 to 2030 (proj.)

Data Source: U.S. Census Bureau & Pennsylvania Department of Environmental Protection

Finding #4: We Cannot Grow by Ourselves
Natural Population Change in Rural Pennsylvania 1970 - 2007

Implication #1: Economic Development

Rural Employment and Population Change 1970 - 2008 (Base Year = 1970)

Demographic Indicators

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Dependency Ratio (1)</td>
<td>73.2</td>
<td>70.5</td>
<td>67.5</td>
<td>68.9</td>
<td>74.9</td>
<td>82.7</td>
<td>98.6</td>
</tr>
<tr>
<td>Youth (2)</td>
<td>46.1</td>
<td>44.5</td>
<td>41.6</td>
<td>40.6</td>
<td>42.2</td>
<td>44.5</td>
<td>48.2</td>
</tr>
<tr>
<td>Old Age (3)</td>
<td>27.1</td>
<td>25.9</td>
<td>25.9</td>
<td>28.3</td>
<td>32.7</td>
<td>36.2</td>
<td>42.4</td>
</tr>
<tr>
<td>Sex Ratio (4)</td>
<td>93.4</td>
<td>94.1</td>
<td>94.6</td>
<td>95.1</td>
<td>95.4</td>
<td>96.4</td>
<td>97.4</td>
</tr>
</tbody>
</table>

(1) Dependency Ratio = (Age under 20 + Age 65 and over) / (Age 20 to 64) X 100
(2) Youth dependency ratio = (Age under 20) / Age 20 to 64) X 100
(3) Old age dependency ratio = (Age 65 and over) / Age 20 to 64) X 100
(4) Sex Ratio = Male / Female X 100
Implication #2: Education

Enrollment Changes by District 2003-2004 to 2017-2018

- No initial reduction in school taxes
- Potential school building closings
- Lower traditional age students enrolled in colleges
- Increased demand for adult education

Data Source: Pennsylvania Department of Education

Implication #3: Health Care / Human Services

% Change in Adjusted Rural Income by Source, 1970-2007

- Increased demand for:
  - Home health care services
  - Transportation services
  - Assisted living quarters
  - Medical specialists focusing on geriatric needs
- Quiet maternity wards, busy geriatric units
- Businesses will increasingly target older consumers

Data Source: U.S. Bureau of Economic Analysis. Data adjusted for inflation using the CPI-U with 2007 = 100

Implication #4: Housing

Change in Population and Housing 1970-2000 and 2000-2030 (proj.)

- Slower growth in new housing
- Shift in housing demand from large family homes to smaller homes
- Revitalization of housing in older boroughs
- Increased number of multi-generational households

Data Source: U.S. Census Bureau & Pennsylvania State Data Center
Summary

- Rural Pennsylvania will have slower growth
- What growth there is will be regional and driven by in-migration
- Rural Pennsylvanians will be older
- Rural population change will have a significant impact on:
  - Economic development
  - Education
  - Health and human services
  - Housing
  - Community services

Implication #5: Community Organizations

Projected 10 Year Transfer of Wealth 2005-2015

- Change in recreational needs (more walking trails, less skateboard parks)
- Youth and volunteer organizations may find it difficult to recruit members
- With fewer workers, decline in local earned income tax revenues
- Transfer of wealth from generation to generation

Data Source: RUPRI Center, Wealth Transfer in Pennsylvania, 2008

Implication #1: Economic Development

# Working Age Rural Adults 1970 - 2030 (proj)

- Potential labor shortages for some businesses
- More older persons in workforce
- Increased Internet usage
- Rural households may become more reliant on unearned incomes
- Increased use of asset based development

Data Sources: U.S. Census Bureau & Pennsylvania State Data Center