


*The Center for*  
**Rural Pennsylvania**  
*A Legislative Agency of the Pennsylvania General Assembly*

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[www.ruralpa.org](http://www.ruralpa.org)

Jonathan Johnson  
Senior Policy Analyst



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**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.

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**PENNSTATE**  
 **Harrisburg**

Pennsylvania State Data Center  
Institute of State and Regional Affairs  
Penn State Harrisburg  
Middletown, PA 17025

Sue Copella  
Director, PaSDC

Pennsylvania State Data Center  
**PaSDC**

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## 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!

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## 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. Bureau of Census and Economic Analysis

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## Cohort Component Model

Pennsylvania Population Projections Components of Change						
	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
Base Population	12,281,054	12,422,685	12,540,718	12,690,711	12,871,823	13,048,758
Group Quarters ( - )	234,474	250,658	250,658	250,658	250,658	250,658
Total Births ( + )	720,887	729,872	764,432	790,852	791,262	776,172
Total Deaths ( - )	659,070	662,296	660,237	658,054	672,683	706,921
Domestic Migration ( - )	-21,254	-22,727	-23,921	-23,465	-22,741	-22,271
Overseas Migration ( + )	84,884	73,184	69,719	71,779	81,097	94,662
Group Quarters ( + )	250,658	250,658	250,658	250,658	250,658	250,658
Final Population	12,422,685	12,540,718	12,690,711	12,871,823	13,048,758	13,190,400

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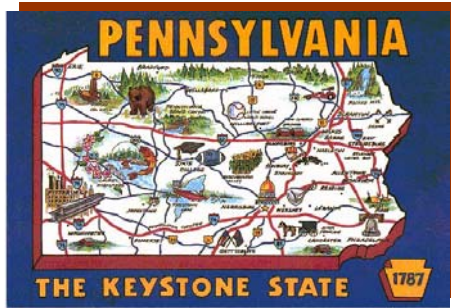
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## What is Rural and Urban?



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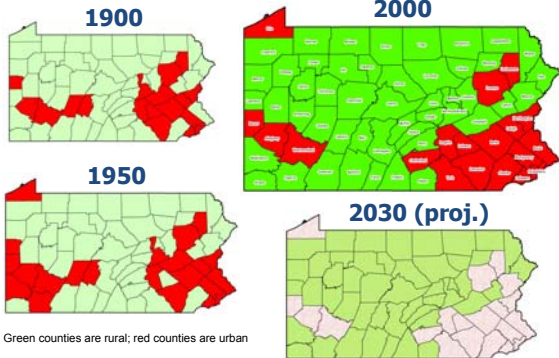
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## Rural & Urban Pennsylvania 1900-2030 (proj.)



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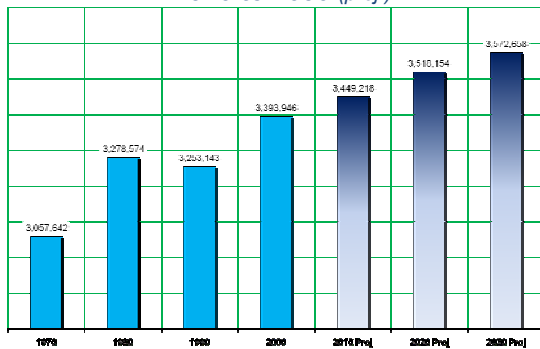
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## Pennsylvania Rural Population 1970 to 2030 (proj.)



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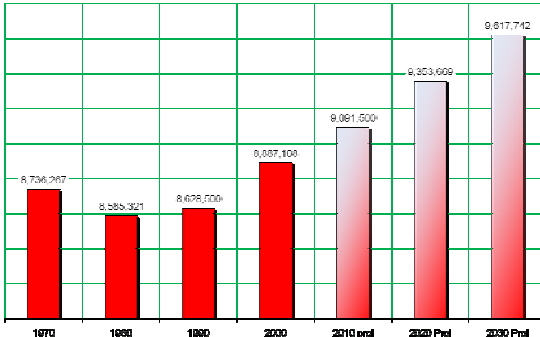
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## Pennsylvania Urban Population 1970 to 2030 (proj.)



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

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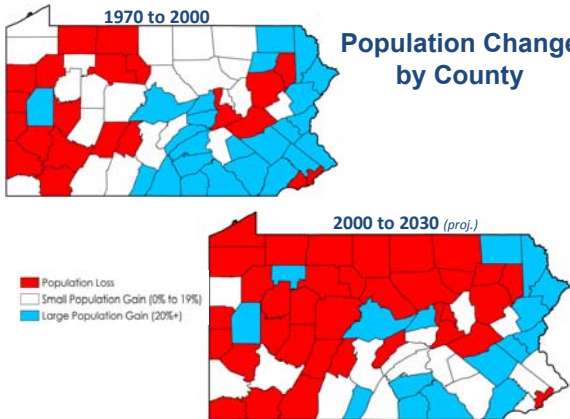
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### 1970 to 2000

## Population Change by County



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

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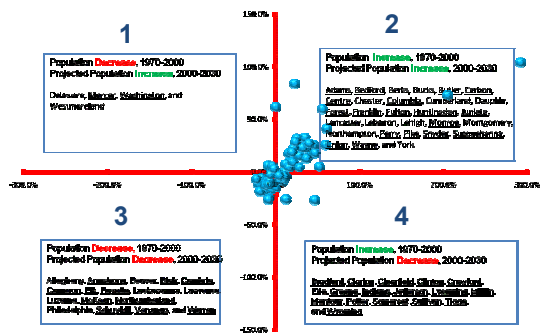
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## 1970-2000 & 2000-2030 County Population Comparison



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

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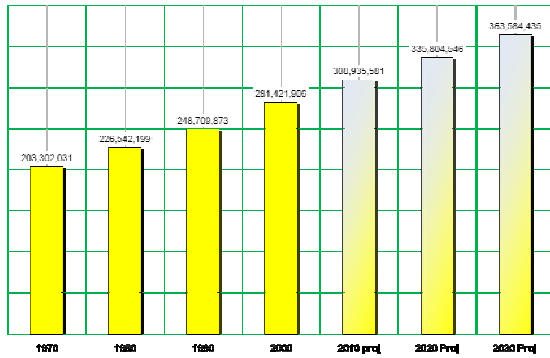
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## United States Population, 1970 to 2030 (proj.)



Data Source: U.S. Census Bureau

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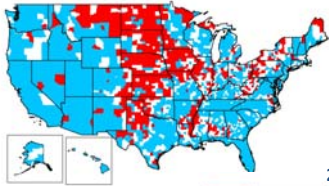
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1970 to 2000



## U.S. Population Change 1970-2030

2000 to 2030 (proj.)



Data Source: U.S. Census Bureau

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## Birth Rates




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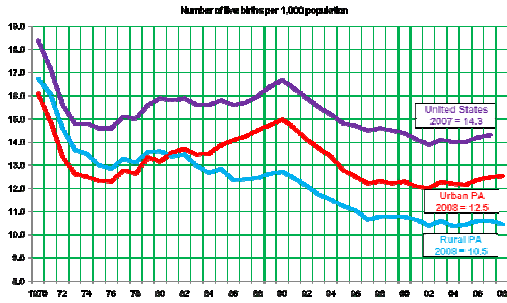
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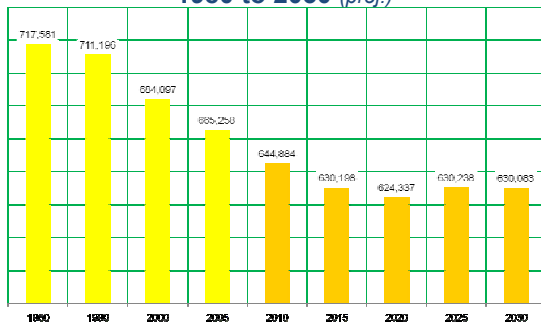
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## Birth Rates in United States and Rural and Urban Pennsylvania 1970 to 2008



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

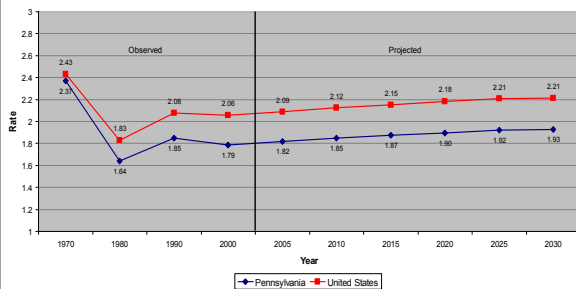
## Number of Women in Rural Pennsylvania of Child Producing Age (15 to 44) 1980 to 2030 (proj.)



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

## Fertility Assumptions

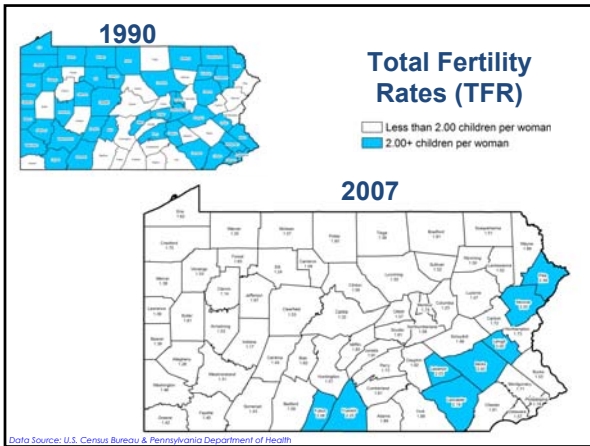
Pennsylvania vs United States Total Fertility Rates



Pennsylvania State Data Center

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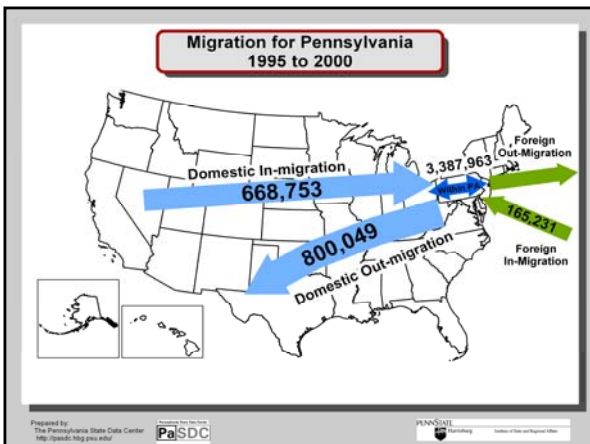
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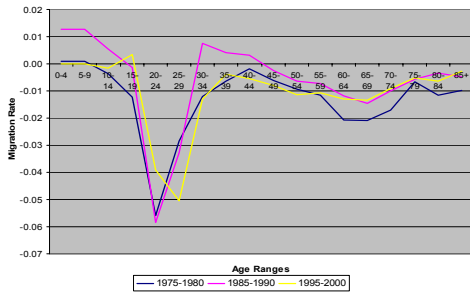
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## Migration Assumptions

Pennsylvania Domestic Migration Data 1975-2000 by Age




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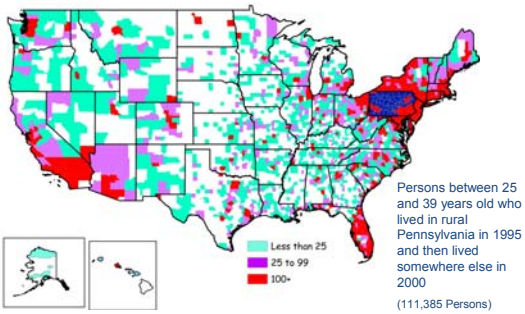
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## Young Adult Out-Migration 1995-2000




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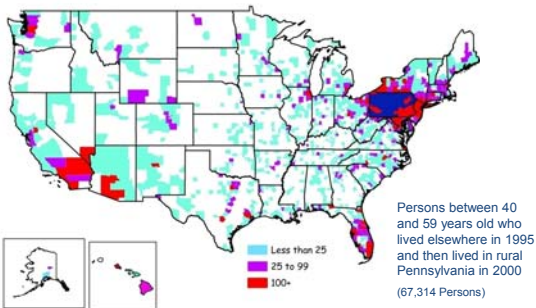
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## Adult In-Migration 1995-2000




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Data Source: U.S. Census Bureau

Data Source: U.S. Census Bureau



## Rural Pennsylvania In- and Out-Migration 1995-2000

	Moved Out of Rural Pennsylvania	Moved Into Rural Pennsylvania	Net Difference
Under 19 Years Old	65,312	79,464	14,152
20 to 34 Years Old	145,543	114,735	-30,808
35 to 44 Years Old	48,191	54,341	6,150
45 to 59 Years Old	37,063	43,287	6,224
60 Years Old & Older	32,343	34,541	2,198
Total	328,452	326,368	-2,084

Data Source: U.S. Census Bureau




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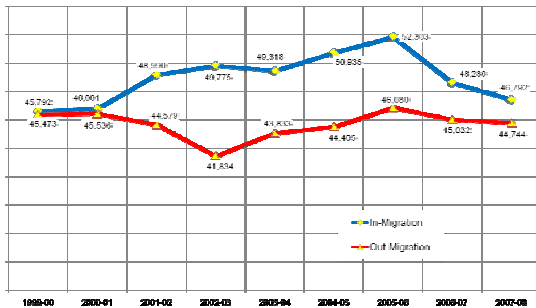
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## Out-of-State In-Migration and Out-Migration from Rural Pennsylvania 1999-2000 to 2007-2008



Data Source: U.S. Internal Revenue Service

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## Finding #1: Slow Population Growth




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## Finding #2: The New Generation Gap

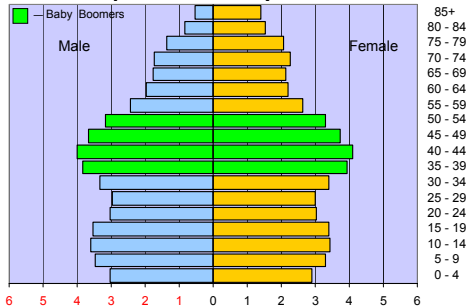


## Aging the Population

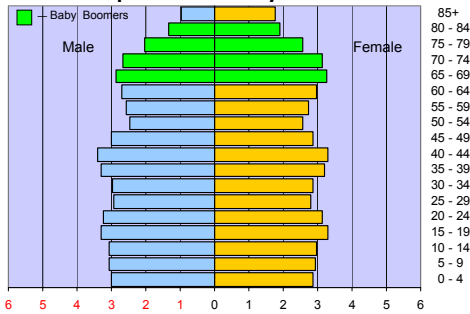
Age	2000	2005	2010	2015	2020	2025	2030	Numeric Change 2000 to 2030	% Change 2000 to 2030
0-4	137,804	113,726	104,303	100,000	100,000	100,000	100,000	-44,336	-32.2%
5-9	827,845	732,856	719,856	728,829	783,870	790,841	792,742	-35,203	-4.3%
10-14	863,840	832,852	737,085	723,088	733,100	768,491	786,715	-67,134	-7.8%
15-19	850,880	864,163	832,203	836,280	823,463	833,063	870,343	-19,287	-2.3%
20-24	746,080	859,312	864,881	933,079	838,380	827,228	838,400	93,384	12.5%
25-29	732,721	877,862	730,304	888,183	855,197	793,588	794,764	22,063	3.0%
30-34	827,795	736,902	679,328	762,480	888,000	896,821	767,471	-60,314	-7.3%
35-39	877,800	829,780	737,882	679,322	783,124	887,184	858,590	-41,810	-4.8%
40-44	998,816	948,808	728,420	735,252	877,841	797,761	886,278	-110,380	-11.1%
45-49	908,850	985,488	836,850	818,811	727,433	671,642	775,225	-133,421	-14.7%
50-54	786,880	880,871	965,158	918,261	801,856	714,941	681,140	-135,238	-17.2%
55-59	870,880	799,820	861,140	938,757	887,758	786,793	697,857	-77,688	-8.9%
60-64	811,830	880,871	770,308	824,207	896,719	858,800	751,483	-239,827	-29.5%
65-69	489,880	470,820	449,850	481,200	768,481	639,358	600,888	-24,342	-5.0%
70-74	489,810	427,800	421,300	491,181	615,863	606,130	768,208	277,888	56.8%
75-79	422,311	458,820	451,320	558,761	421,874	532,185	607,268	184,979	43.8%
80-84	290,310	318,831	319,731	470,731	281,384	329,731	420,101	138,772	47.8%
85+	237,887	264,850	298,844	318,827	318,859	325,335	350,812	123,245	51.9%
TOTAL	12,281,054	12,422,880	12,540,718	12,690,711	12,871,823	13,048,758	13,190,450	909,340	7.4%

Pennsylvania State Data Center  
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## Population Pyramid 2000



## Population Pyramid 2030




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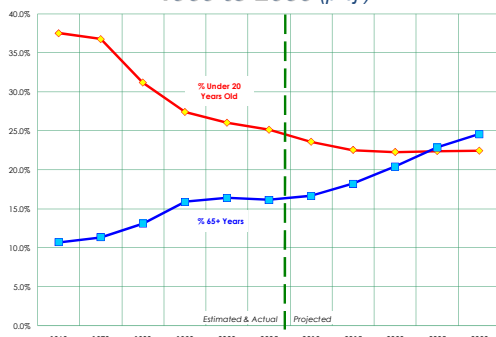
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## Rural Youth & Senior Citizens 1960 to 2030 (proj.)




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## Finding #3: Uneven Population Growth




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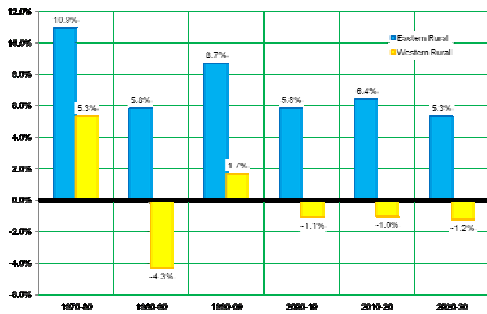
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## Population Change in Rural Eastern and Western Pennsylvania 1970-2030 (proj.)



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

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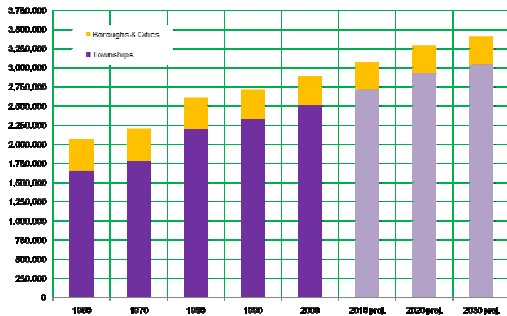
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## Population Change Among Rural Municipalities 1960 to 2030 (proj.)



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

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## Finding #4: We Cannot Grow by Ourselves




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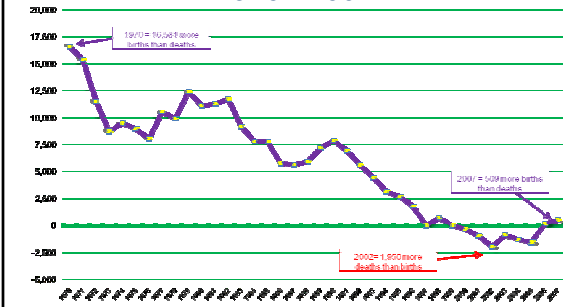
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## Natural Population Change in Rural Pennsylvania 1970 - 2007



Data Source: Pennsylvania Department of Health

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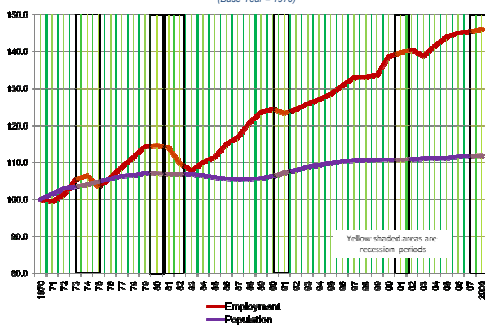
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## Implication #1: Economic Development

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



Data Sources: U.S. Census Bureau & Pennsylvania Department of Labor and Industry

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## Implication #1: Economic Development

### Demographic Indicators

Demographic Indicator	2000	2005	2010	2015	2020	2025	2030
Dependency Ratio (1)	73.2	70.5	67.5	68.9	74.9	82.7	88.6
Youth (2)	46.1	44.5	41.6	40.6	42.2	44.5	46.2
Old Age (3)	27.1	25.9	25.9	28.3	32.7	38.2	42.4
Sex Ratio (4)	93.4	94.1	94.6	95.0	95.3	95.4	95.4

- (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

Data Sources: Pennsylvania State Data Center Population Projections 2000-2030

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## 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

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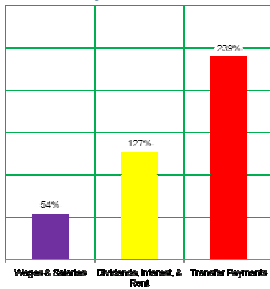
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## Implication #3: Health Care / Human Services

% 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

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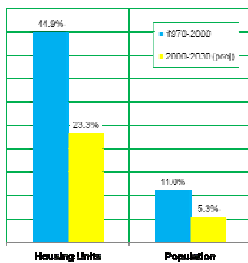
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## Implication #4: Housing

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

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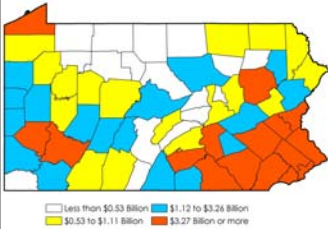
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## Implication #5: Community Organizations

### 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 local earned income tax revenues
- Transfer of wealth from generation to generation

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

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## 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




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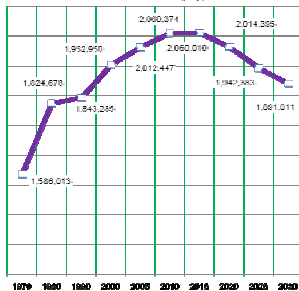
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## Implication #1: Economic Development

### # 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

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