MONTANA’S SCHOOLS AND POPULATION TRENDS
THEN, NOW & INTO THE FUTURE

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MONTANA SCHOOL FUNDING COMMISSION - JANUARY 2016
WHAT ARE WE TALKING ABOUT TODAY...

- A FEW QUICK FACTS TO CELEBRATE
  - Educational Attainment

- SCHOOL AGE POPULATION PROJECTIONS
  - Source, Availability and Limitations of the Data
  - A few K-12 trends
  - Resident population versus enrollment – a county example

- POPULATION MIGRATION TRENDS
  - Source, Availability and Limitations of the Data

- NEXT STEPS
Enrollment
- Total MT public school enrollment **2014-2015**: 144,532
- After declining for seven years, kindergarten enrollment began increasing in 2003-04 and has increased by 1,535 students from 2003-04 to 2014-15.
- Montana (PK-8) showed an increase in enrollment in 2014 - 15 of 0.7%.

Educational Attainment
- For people 25 years and older, 92.5% of Montanans have a high school degree or higher—**the highest percentage in the nation**. The national average is 86.3%. ¹
- For bachelor’s degrees (which is the minimum education needed for many high-tech industry jobs), Montana is about equal to the national average with 29.3% of people 25 and older holding bachelor’s degrees, **ranking 20th** among the 50 states. ¹

1. Source: 2014 American Community Survey 5-Year Data, U.S. Census Bureau
WE (RIS) PURCHASE POPULATION PROJECTIONS FROM REMI – KNOWN AS eREMI – FOR EACH OF MONTANA’S 56 COUNTIES FOR THE TIME PERIOD 2015 – 2060 (VERSION 6)
E-REMI DATA STRENGTHS

- RIS makes the data available to the public in pdf and excel formats.
- The projections are based on the trusted REMI methodology that has been used by clients throughout the nation and the world for over thirty years.
- Data is at the county level for single year of age by gender.
- Latest series includes historic estimates from 1990-2014 which are tied to the Decennial Census counts and projections from 2015-2060.
E-REMI DATA LIMITATIONS

- The farther out and the more granulated the projection figures, the less reliable.
- The nature of the modeling and projection calculations result in more influence of larger population areas.
- Projections are for MT residents and don’t include temporary populations.
- Standard population projection methods project forward past trends into the future. Therefore, population projections must be used with caution as they are simply a guide to what might happen if past trends continue into the future.
How Are Future Populations Predicted?

Total Population = Births − Deaths + Net Migration

From a modeling stand-point…

Birth & death rates are relatively straightforward to estimate and project forward…

In comparison to estimating net migration which tends to be the sticking point in model-based population projections…

“Wall Street indices predicted nine out of the last five recessions!” – Paul A. Samuelson (Newsweek 1966)
Total Montana State Resident Population - Past
1994 – 2014 (20 years)

Source E-REMI Estimates

153,060 people
18% over the period
K-12 Age MT Population Cohorts - Past

Total State Resident Population
Age 0-4
1994 – 2014 (20 years)

Total State Resident Population
Age 5-14
1994 – 2014 (20 years)

Total State Resident Population
Age 15-18
1994 – 2014 (20 years)

• Note different y axis values
Source: E-REMI Estimates
Trend reversal

Related Workforce
Total Montana State Resident Projections 2015 - 2025

Source: E-REMI Estimates

117,550 people
11% over the period
Total Montana State Population

Future
2015 - 2025

1,023,075 - 1,140,625

Past
2004 – 2014 (10 years)

930,004 - 1,014,368

- Note different y axis values
- Source E-REMI Estimates
Total State Resident Population Age 0-18
2015 - 2025

Source E-REMI Estimates

26,058 people 11% over the period
Total State Population Projection Age 0-4
2015 - 2025

Source: E-REMI Estimates

9,892 people 16% over the period
Total State Resident Population
Age 0-4 - Future
2015 - 2025

Total State Resident Population
Age 0-4 - Past
2004 – 2014 (10 years)

• Note different y axis values
Source E-REMI Estimates
Total State Resident Population Projection Age 5-14
2015-2025

Source E-REMI Estimates

10,871 people 9% over the period
Total State Resident Population
Age 5-14 -Future
2015-2025

Total State Resident Population
Age 5-14 - Past
2004-2014 (10 years)

- Note different y axis values
Source E-REMI Estimates
Total State Resident Population Age
Projection 15-18
2015 - 2025

Source E-REMI Estimates

5,295 people
11% over the period
Total State Resident Population Age
15-18 - Future
2015 - 2025

Total State Resident Population Age
15-18 - Past
2004 – 2014 (10 years)

- Note different y axis values
  Source E-REMI Estimates

2003 Kindergarten turn-around
MT OPI enrollment figures compared to e-REMI population estimates
Richland and Yellowstone County examples

2011-2012 Richland County
Public School Elementary Enrollment
Grades K-8
Source OPI - ANB
1,199 Students

2011 Richland County
Resident Population
Age 5-14
Source E-Remi
1,247 Children

2011-2012 Yellowstone County
Public School Elementary Enrollment
Grades K-8
Source OPI
15,825 Students

2011 Yellowstone County
Resident Population
Age 5-14
Source E-Remi
19,420 Children

Private School Enrollment not included
Migration Trends
Resident Migration Terms

- **Emigration**: The process of leaving one area to take up residence in another.
- **Immigration**: The process of entering one area from another to take residence.
- **International Migration**: Population flows to and from outside of the US and Montana.
- **Inter-state Migration**: Population flows to and from other US States and Montana.
- **Intra-state Migration**: Population flows to and from one geographic area within Montana to another area within the state.
- **Net Migration**: The net effect of immigration and emigration on an area's population in a given time period, expressed as an increase or decrease.
Census Population Estimates (CPS) strengths & weaknesses

Census Population Estimates Program
http://www.census.gov/popest/

- Annual estimate through a joint partnership with the states (FSCPE program).
- Estimates produced for many geographies including nation, state, counties, incorporated places, metro and micropolitan areas.
- Data are estimates but are benchmarked to the Decennial Census figures which are a complete count of everyone.
Cumulative Estimates of Population Change in MT 2010-2014

Total Population Change: **34,162** additional residents

<table>
<thead>
<tr>
<th>Type of Change</th>
<th>Change</th>
<th>% of Overall Est. Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Increase</td>
<td>13,082</td>
<td>38.3%</td>
</tr>
<tr>
<td></td>
<td>(51,465 Births – 38,383 Deaths)</td>
<td></td>
</tr>
<tr>
<td>Domestic Net Migration</td>
<td>17,262</td>
<td>50.5%</td>
</tr>
<tr>
<td>International Net Migration</td>
<td>3,240</td>
<td>9.5%</td>
</tr>
</tbody>
</table>

Source: U.S. Census Bureau, Population Division Estimates of the Components of Resident Population Change: April 1, 2010 to July 1, 2014
Figure 5.
Change in Population by County: 2000 to 2010
(For information on confidentiality protection, nonsampling error, and definitions, see www.census.gov/prod/cen2010/doc/p94-171.pdf)

Source: U.S. Census Bureau, Decennial Census
Figure 5. Change in Population by County: 2000 to 2010
(For information on confidentiality protection, nonsampling error, and definitions, see www.census.gov/prod/cen2010/doc/pl94-171.pdf)

Percentage Change

Source: U.S. Census Bureau, Decennial Census
Wyoming ranks 51 and Alaska ranks 52 (list includes D.C. and Puerto Rico)

Source: U.S. Census Bureau, Decennial Census
QUESTIONS???

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