MICHIGAN PUBLIC SCHOOLS ENROLLMENTS AND PROJECTIONS

JANUARY 22, 2020

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PROFESSOR EMERITUS
MICHIGAN STATE UNIVERSITY
DESIRE WITHOUT KNOWLEDGE IS NOT GOOD, AND WHOEVER MAKES HASTE WITH HIS FEET MISSES HIS WAY.

(Proverbs 19:2 ESV)
NATIONAL AND MICHIGAN TRENDS

A CONTEXT FOR REGIONAL AND LOCAL EVENTS
THE NATIONAL PICTURE

BIRTHS – UNITED STATES RESIDENTS
U.S. LABOR STATISTICS – UNEMPLOYMENT AND LABOR FORCE
U.S. SINGLE FAMILY BUILDING PERMITS
U.S. ESTIMATED POPULATION HISTORY
ENROLLMENTS / PROJECTIONS – U.S. PUBLIC SCHOOLS HEAD COUNT
UNITED STATES RESIDENT BIRTHS
1955 TO 2018

Source: National Center for Health Statistics – National Vital Statistics Reports (Numerous)
THE NATIONAL BIRTH PROFILE

The post war baby boom peaked in 1961 (4.268 million)
The baby bust started in 1962 and continued through 1976 (3.168 million)
The echo boom started in 1977 and peaked in 1990 (4.158 million)

After 1990 births first declined (3.881 million in 1997) and then generally increased (to 4.316 million in 2007)

From 2007 to 2013 an unexpected decline occurred (declining to 3.932 million in 2013) perhaps due to economic conditions (“the great recession” – see the following graphs of United States Unemployment Rates and Single Family Building Permits)

In 2014 an upturn in births (3.988 million) ended a 6 year decline but was followed by four years of decline (to 3.792 million in 2018)

Source: National Center for Health Statistics – National Vital Statistics Reports
UNITED STATES
UNEMPLOYMENT RATE
JANUARY 1976 TO JANUARY 2019

Source: United States Census Bureau – Building Permits Survey
Source: National Center for Education Statistics – Digest of Education Statistics - 2018 Tables and Figures, Table 203.10
Source: National Center for Education Statistics – Digest of Education Statistics - 2018 Tables and Figures, Table 203.10
UNIVERS STATES PUBLIC
GRDES 6-8

NUMBER IN MILLIONS

ACTUAL
PROJECTED

SCHOOL YEAR

Source: National Center for Education Statistics – Digest of Education Statistics - 2018 Tables and Figures, Table 203.10
Source: National Center for Education Statistics – Digest of Education Statistics - 2018 Tables and Figures, Table 203.10
UNITED STATES PUBLIC
SENIOR CLASS

NUMBER IN MILLIONS

ACTUAL
PROJECTED

SCHOOL YEAR
Source: National Center for Education Statistics – Digest of Education Statistics - 2018 Tables and Figures, Table 203.10
# SUMMARY OF ENROLLMENT CHANGES
UNITED STATES PUBLIC SCHOOLS
2013-14 TO 2018-19
AND
PROJECTED 2018-19 TO 2023-24

<table>
<thead>
<tr>
<th>GRADE LEVEL</th>
<th>UNITED STATES PUBLIC ENROLLMENT FROM 2013-14 TO 2018-19</th>
<th>UNITED STATES PUBLIC PROJECTED ENROLLMENT FROM 2018-19 TO 2023-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-12</td>
<td>+1.2%</td>
<td>+0.6%</td>
</tr>
<tr>
<td>K-5</td>
<td>-1.0%</td>
<td>+0.1%</td>
</tr>
<tr>
<td>6-8</td>
<td>+3.2%</td>
<td>-2.5%</td>
</tr>
<tr>
<td>9-12</td>
<td>+3.2%</td>
<td>+3.9%</td>
</tr>
<tr>
<td>SENIOR CLASS</td>
<td>+5.1%</td>
<td>+3.3%</td>
</tr>
</tbody>
</table>
THE MICHIGAN PICTURE

I: FACTORS AFFECTING MICHIGAN ENROLLMENTS
   MICHIGAN RESIDENT BIRTHS
   ECONOMIC INDICATORS HISTORY
   MICHIGAN POPULATION AND MIGRATION HISTORY
   RECENT ENROLLMENT TRENDS AND CHANGES

II: ENROLLMENTS / PROJECTIONS – MICHIGAN PUBLIC HEAD COUNT

III: MICHIGAN FUTURE BIRTHS AND FUTURE POPULATION MIGRATION
Source: Michigan Department of Community Health
THE MICHIGAN BIRTH PROFILE

The post war baby boom peaked in 1957 (208,488).

The baby bust started in 1958 and continued until 1976 (131,378).

The echo boom started in 1977 but was attenuated due to an economic downturn in the early 80’s. The echo boom ended in 1990 with 153,080 births.

(Continued on Next Slide)
THE MICHIGAN BIRTH PROFILE

From 1990 to 2000 births slowly declined (from 153,080 to 136,048) and then stabilized in the late 90’s.

From 2000 to 2012 a decline in births occurred with an increased rate of decline from 2007 to 2012 – generally attributed to a severe economic downturn in Michigan with associated high unemployment and population out-migration (see the graphs that follows this slide).

From 2013 to 2018 the annual rate of decline in resident births slowly decreased but the annual number of births were at a very low level when compared to historical levels (from 113,732 for 2013 to 110,093 for 2018).

Source: Michigan Department of Community Health
UNITED STATES AND MICHIGAN FERTILITY RATES
BIRTHS PER 1000 WOMAN AGE 15 TO 44

Source: Michigan Department of Community Health
MICHIGAN
UNEMPLOYMENT RATE
JANUARY 1976 TO JANUARY 2019

MICHIGAN LABOR FORCE
JANUARY 1976 TO JANUARY 2019

Source: United States Census Bureau – Building Permits Survey
MICHIGAN
POPULATION ESTIMATES
JULY 1 1960 TO JULY 1, 2019

MICHIGAN
NUMBER OF PERSONAL EXEMPTIONS CLAIMED ON INDIVIDUAL TAX RETURNS
NET MIGRATION
2000 TO 2016

TAX YEARS

• SOI Tax Stats - Migration Data - 1999 to 2016
• Source: Internal Revenue Service
MICHIGAN
PERCENTAGE CHANGE IN FEMALE POPULATION AGES 25-34
COMPARSED TO FEMALE POPULATION AGES 24-33 THE PRIOR YEAR

Annual Estimates of the Resident Population by Single Year of Age and Sex for the United States, States, and Puerto Rico Commonwealth: July 1, 2010 to July 1, 2018
Source: U.S Census Bureau, Population Division
MICHIGAN TOTAL PUBLIC ENROLLMENT
(LEA'S PSA'S AND ISD'S)
GRADES K-12

Source: Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)
Source: Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)
LEA SHARE OF TOTAL PUBLIC ENROLLMENT
GRADES K-12

Source: Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)
Source: Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)
PSA SHARE OF TOTAL PUBLIC ENROLLMENT
GRADES K-12

Source: Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)
MICHIGAN
GROWTH OF PUBLIC SCHOOL ACADEMIES
FALL 1993 TO FALL 2018

Source: Michigan Department of Education
Michigan ISD Enrollment
Grades K-12

Source: Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)
ISD SHARE OF TOTAL PUBLIC ENROLLMENT
GRADES K-12

Source: Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)
NON RESIDENT SHARE OF K-12 ENROLLMENT
OTTAWA ISD - LEA DISTRICTS
1999 TO 2018

Source: Non Resident Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)
NON RESIDENT SHARE OF K-12 ENROLLMENT
MACOMB ISD - LEA DISTRICTS

YEAR

PERCENT
0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20

Source: Non Resident Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)
MICHIGAN PUBLIC SCHOOLS ENROLLMENTS AND PROJECTIONS: HEAD COUNT

KINDERGARTEN TO 12TH GRADE
KINDERGARTEN TO 5TH GRADE (ELEMENTARY)
GRADES 6TH TO 8TH (MIDDLE SCHOOL)
GRADES 9TH TO 12TH (HIGH SCHOOL)
GRADE 12TH (SENIOR CLASS)

Sources: Enrollment Data – Michigan's Center for Educational Performance and Information (Fall Head Count)
Projections – Frederick R. Ignatovich, Ph.D. Michigan State University, Professor Emeritus
### GRADES K-12 ENROLLMENT AND PROJECTIONS SUMMARY FOR MICHIGAN - PUBLIC SCHOOLS

<table>
<thead>
<tr>
<th>SCHOOL YEAR</th>
<th>ACTUAL ENROLLMENT</th>
<th>GAIN/LOSS (% CHANGE)</th>
<th>PROJECTED LOW (%)</th>
<th>PROJECTED MOST LIKELY (%)</th>
<th>PROJECTED HIGH (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-14</td>
<td>1,516,371</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018-19</td>
<td>1,453,135</td>
<td>-63,236 (-4.2%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>PROJECTED LOW</strong></td>
<td><strong>PROJECTED MOST LIKELY</strong></td>
<td><strong>PROJECTED HIGH</strong></td>
<td></td>
</tr>
<tr>
<td>GAIN/LOSS</td>
<td></td>
<td>-90,180 (-6.2%)</td>
<td>-54,271 (-3.7%)</td>
<td>-16,725 (-1.2%)</td>
<td></td>
</tr>
<tr>
<td>2023-24</td>
<td>1,362,955</td>
<td></td>
<td>1,398,864</td>
<td>1,436,410</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sources: Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)  
Projections – Frederick R. Ignatovich, Ph.D.  Michigan State University, Professor Emeritus
# GRADES K-5 ENROLLMENT AND PROJECTIONS SUMMARY FOR

## MICHIGAN - PUBLIC SCHOOLS

<table>
<thead>
<tr>
<th>SCHOOL YEAR</th>
<th>ACTUAL ENROLLMENT</th>
<th>PROJECTED LOW</th>
<th>PROJECTED MOST LIKELY</th>
<th>PROJECTED HIGH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-14</td>
<td>679,213</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GAIN/LOSS</td>
<td>-34,934 (-5.1%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018-19</td>
<td>644,279</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GAIN/LOSS</td>
<td>-22,940 (-3.6%)</td>
<td>-5,290 (-0.8%)</td>
<td>12,854 (+2.0%)</td>
<td></td>
</tr>
<tr>
<td>2023-24</td>
<td>621,339</td>
<td>638,989</td>
<td>657,133</td>
<td></td>
</tr>
</tbody>
</table>

Sources:
- Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)
- Projections – Frederick R. Ignatovich, Ph.D. Michigan State University, Professor Emeritus
MICHIGAN PUBLIC HEAD COUNT
ENROLLMENTS AND PROJECTIONS
GRADES 6-8

NUMBER

SCHOOL YEAR

ACTUAL
HIGH
MOST LIKELY
LOW
# Grades 6-8 Enrollment and Projections Summary for Michigan - Public Schools

## School Year Actual Enrollment

<table>
<thead>
<tr>
<th>School Year</th>
<th>Actual Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-14</td>
<td>349,340</td>
</tr>
<tr>
<td>2018-19</td>
<td>337,156</td>
</tr>
</tbody>
</table>

## Gain/Loss (% Change)

<table>
<thead>
<tr>
<th>School Year</th>
<th>Actual Enrollment</th>
<th>Projected Low</th>
<th>Projected Most Likely</th>
<th>Projected High</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-14</td>
<td>-12,184 (-3.5%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018-19</td>
<td></td>
<td>-29,898 (-8.9%)</td>
<td>-25,327 (-7.5%)</td>
<td>-20,442 (-6.1%)</td>
</tr>
<tr>
<td>2023-24</td>
<td>307,258</td>
<td>311,829</td>
<td>316,714</td>
<td></td>
</tr>
</tbody>
</table>

Sources:
- Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)
- Projections – Frederick R. Ignatovich, Ph.D. Michigan State University, Professor Emeritus
## GRADES 9-12 ENROLLMENT AND PROJECTIONS SUMMARY FOR MICHIGAN - PUBLIC SCHOOLS

<table>
<thead>
<tr>
<th>SCHOOL YEAR</th>
<th>ACTUAL ENROLLMENT</th>
<th>GAIN/LOSS (% CHANGE)</th>
<th>PROJECTED LOW</th>
<th>PROJECTED MOST LIKELY</th>
<th>PROJECTED HIGH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-14</td>
<td>487,818</td>
<td>-16,118 (-3.3%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018-19</td>
<td>471,700</td>
<td>-37,342 (-7.9%)</td>
<td>-23,654 (-5.0%)</td>
<td>-9,137 (-1.9%)</td>
<td></td>
</tr>
<tr>
<td>2023-24</td>
<td>434,358</td>
<td></td>
<td>448,046</td>
<td>462,563</td>
<td></td>
</tr>
</tbody>
</table>

Sources: Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)  
Projections – Frederick R. Ignatovich, Ph.D. Michigan State University, Professor Emeritus
## SENIOR CLASS ENROLLMENTS AND PROJECTIONS SUMMARY MICHIGAN PUBLIC SCHOOLS

<table>
<thead>
<tr>
<th>SCHOOL YEAR</th>
<th>ACTUAL ENROLLMENT</th>
<th>PROJECTED LOW</th>
<th>PROJECTED MOST LIKELY</th>
<th>PROJECTED HIGH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-14</td>
<td>116,866</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GAIN/LOSS (% CHANGE)</td>
<td>-304 (-0.3%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018-19</td>
<td>116,562</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GAIN/LOSS (% CHANGE)</td>
<td>-11,292 (-9.7%)</td>
<td>-6,685 (-5.7%)</td>
<td>-1,817 (-1.6%)</td>
<td></td>
</tr>
<tr>
<td>2023-24</td>
<td>105,270</td>
<td>109,877</td>
<td>114,745</td>
<td></td>
</tr>
</tbody>
</table>

Sources: Enrollment Data – Michigan’s Center for Educational Performance and Information (Fall Head Count)  
Projections – Frederick R. Ignatovich, Ph.D. Michigan State University, Professor Emeritus
<table>
<thead>
<tr>
<th>GRADE LEVEL</th>
<th>MICHIGAN PUBLIC ACTUAL ENROLLMENT FROM 2013-14 TO 2018-19</th>
<th>MICHIGAN PUBLIC PROJECTED ENROLLMENT* FROM 2018-19 TO 2023-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-12</td>
<td>-4.2%</td>
<td>-3.7%</td>
</tr>
<tr>
<td>K-5</td>
<td>-5.1%</td>
<td>-0.8%</td>
</tr>
<tr>
<td>6-8</td>
<td>-3.5%</td>
<td>-7.5%</td>
</tr>
<tr>
<td>9-12</td>
<td>-3.3%</td>
<td>-5.0%</td>
</tr>
<tr>
<td>SENIOR CLASS</td>
<td>-0.3%</td>
<td>-5.7%</td>
</tr>
</tbody>
</table>

* MOST LIKELY
# SUMMARY OF PROJECTIONS

**UNITED STATES AND MICHIGAN PUBLIC SCHOOLS**

**FROM 2018-19 TO 2023-24**

<table>
<thead>
<tr>
<th>GRADE LEVEL</th>
<th>UNITED STATES PUBLIC MOST LIKELY</th>
<th>MICHIGAN PUBLIC HIGH</th>
<th>MICHIGAN PUBLIC MOST LIKELY</th>
<th>MICHIGAN PUBLIC LOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-12</td>
<td>+0.6%</td>
<td>-1.2%</td>
<td>-3.7%</td>
<td>-6.2%</td>
</tr>
<tr>
<td>K-5</td>
<td>+0.1%</td>
<td>+2.0%</td>
<td>-0.8%</td>
<td>-3.6%</td>
</tr>
<tr>
<td>6-8</td>
<td>-2.5%</td>
<td>-6.1%</td>
<td>-7.5%</td>
<td>-8.9%</td>
</tr>
<tr>
<td>9-12</td>
<td>+3.9%</td>
<td>-1.9%</td>
<td>-5.0%</td>
<td>-7.9%</td>
</tr>
<tr>
<td>SENIOR CLASS</td>
<td>+3.3%</td>
<td>-1.6%</td>
<td>-5.7%</td>
<td>-9.7%</td>
</tr>
</tbody>
</table>
What Will Be The Future Enrollments And Challenges For Your Organization or School District?
MICHIGAN POPULATION PROJECTIONS
FEMALES 15 TO 44

Source: Data – Michigan DTMB: Bureau of Labor Market Information and Strategic Initiatives.
Web Site – http://milmi.org/datasearch/popproj
MICHIGAN POPULATION PROJECTIONS
FEMALES AGE 25 TO 34

Source: Data – Michigan DTMB: Bureau of Labor Market Information and Strategic Initiatives
Web Site: http://milmi.org/datasearch/popproj
• Figure 1: Michigan’s Historical and Projected (A) Population, (B) Population Growth Rate, (C) Births and Deaths, and (D) Net Migrants
Listen To Advice And Accept Instruction, That You May Gain Wisdom For The Future.

(Proverbs 19:20 ESV)
MICHIGAN PUBLIC HEAD COUNT: PROJECTION VALIDITY CHECK

January 7, 2020

Frederick R. Ignatovich, Ph.D.
Professor Emeritus
Michigan State University
How Accurate Were Past Projections?

MICHIGAN PUBLIC HEAD COUNT PROJECTIONS – 2007-08 SCHOOL YEAR

DONE ON JUNE 17, 2009
MICHIGAN PUBLIC HEAD COUNT
ENROLLMENTS AND PROJECTIONS
GRADES K-12

Projection Done on June 17, 2009
MICHIGAN PUBLIC HEAD COUNT
ENROLLMENTS AND PROJECTIONS
GRADES K-5

Projection Done on June 17, 2009
MICHIGAN PUBLIC HEAD COUNT
ENROLLMENTS AND PROJECTIONS
GRADES 6-8

NUMBER

SCHOOL YEAR


ACTUAL HIGH MOST LIKELY LOW

Projection Done on June 17, 2009