

**DEMOGRAPHIC STUDY**

**FOR THE**

**MOUNT OLIVE**

**SCHOOL DISTRICT**

February 13, 2023



# STATISTICAL FORECASTING

- Provide demographic services for school districts in the New York-New Jersey metropolitan area since 1998.
- Performed demographic studies for approximately 200 school districts in NY & NJ.
- Demographic consultant for the NYC Public Schools since 2006.

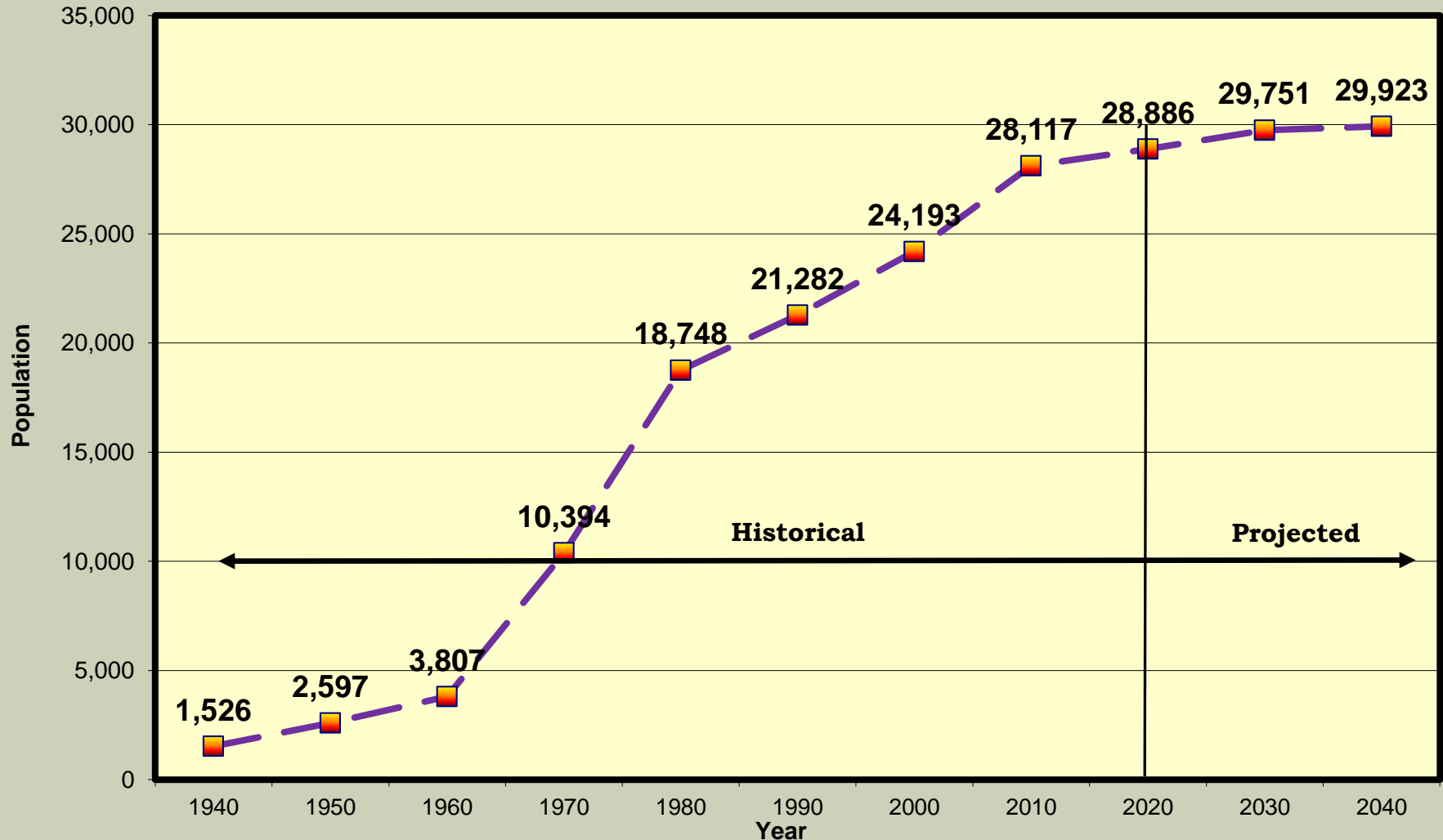
# RICHARD S. GRIP ED.D.

- Executive Director
- Doctorate from Rutgers University Graduate School of Education in Educational Statistics and Measurement
- Numerous publications on school demography and presentations nationally
- Testified as an expert witness in school demography in several Administrative Law court hearings.

# PURPOSE OF THE STUDY

- ❑ Project grade-by-grade enrollments from 2023-24 through 2027-28, a 5-year period
- ❑ Analyze community population trends, demographic characteristics and age structure, birth counts, and fertility rates
- ❑ Examine historical enrollments districtwide and by grade configuration (PK-5, 6-8, 9-12)
- ❑ Research new housing starts and the impact on school district
- ❑ Compare building capacities to current and projected enrollments

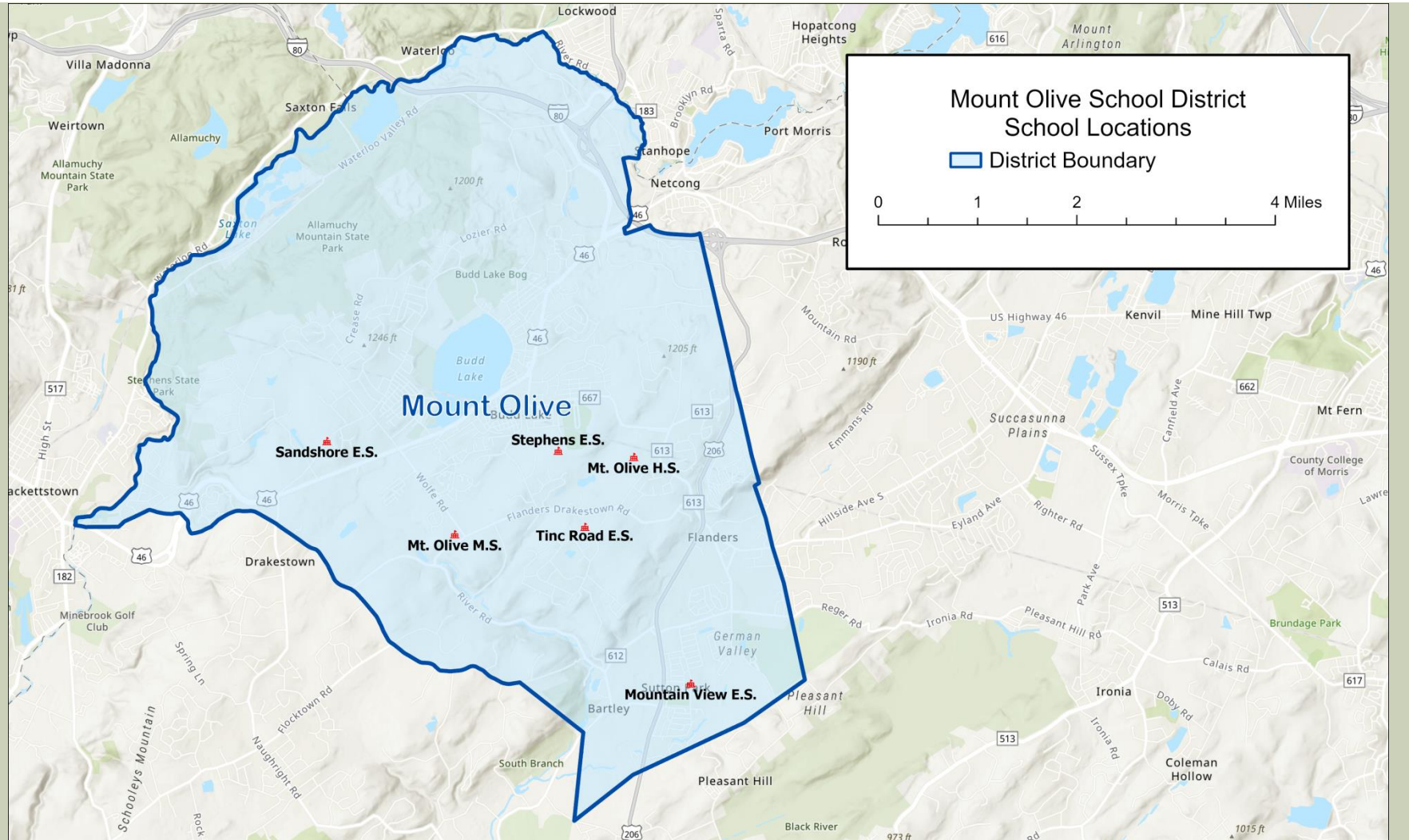
# MOUNT OLIVE HISTORICAL AND PROJECTED POPULATIONS 1940-2040



# MOUNT OLIVE DEMOGRAPHIC PROFILE

- ❑ 63.7% White, 15.4% Hispanic, & 10.5% Asian in 2020 (increasing Asian and Hispanic populations and decreasing White population from 2010)
- ❑ Median age = 37.7 years (NJ = 40.0 years)
- ❑ 17.8% of population is foreign-born (NJ=22.7%). India and Colombia are largest sources.
- ❑ Bachelor's Degree or Higher = 44.1% (NJ = 40.7%)
- ❑ Median household income = \$97K (NJ = \$85K)
- ❑ 11,200 housing units, of which 61% are 1-unit homes (attached or detached)
- ❑ 40.1% of housing units are renter-occupied (NJ = 36.0%).
- ❑ Median value of owner-occupied unit = \$376K (NJ = \$390K).

# SCHOOL LOCATIONS

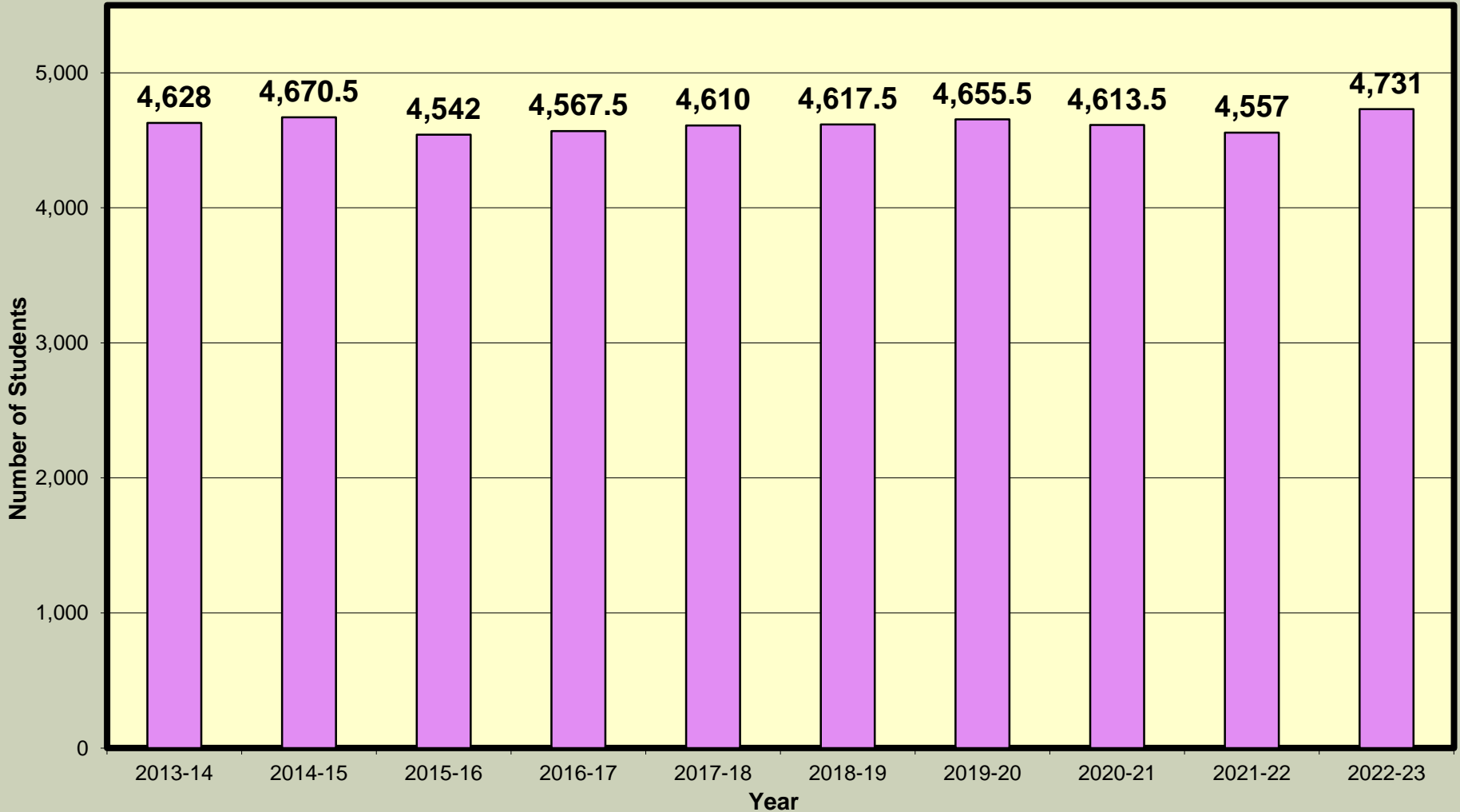


# HISTORICAL ENROLLMENT TRENDS

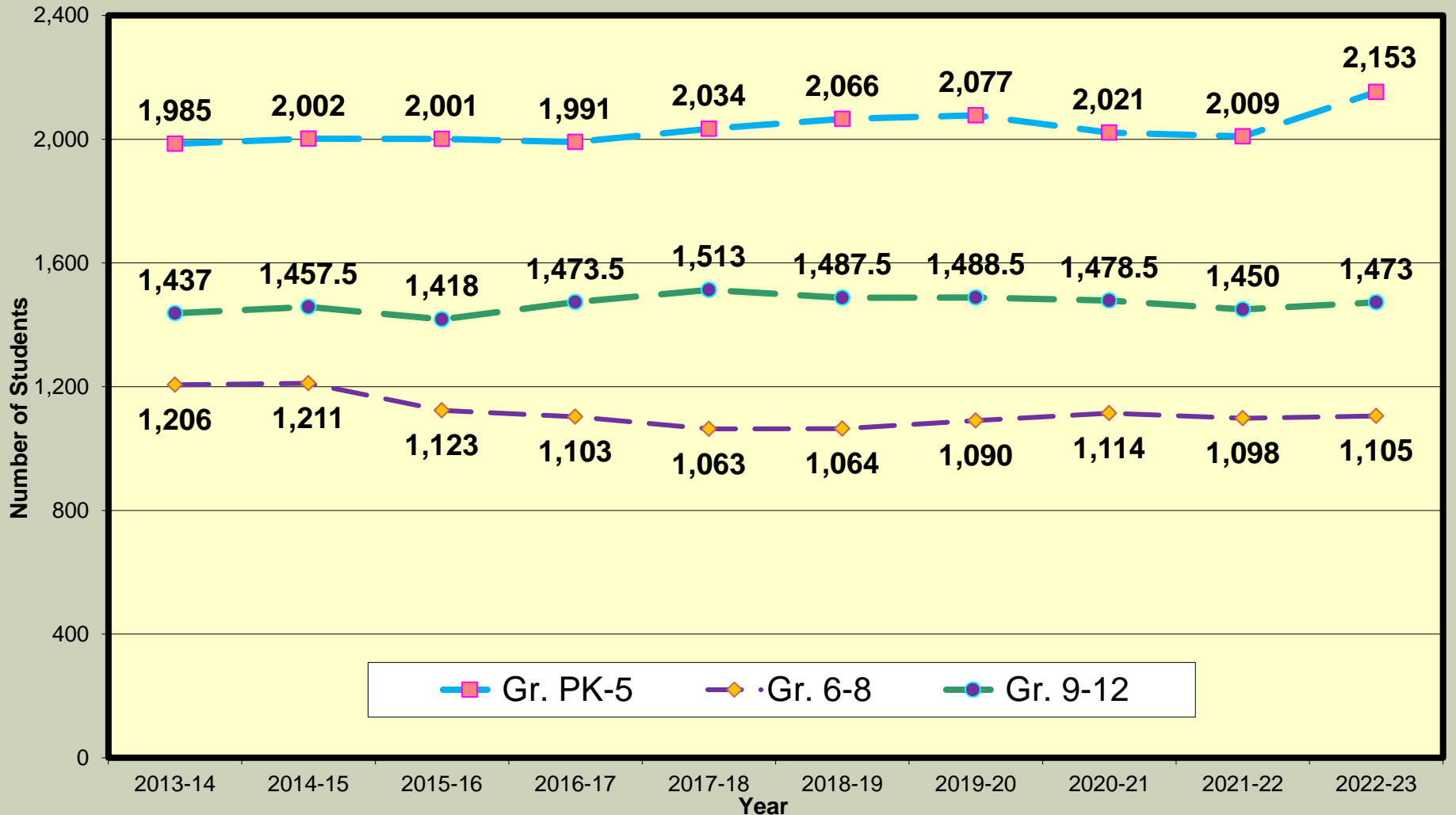
- ❑ District's 2022-23 enrollment (10/15/22) is 4,731.
- ❑ 2013-14 enrollment = 4,628 (gain of 103 students in 10 years)
- ❑ Enrollments were fairly stable before increasing in past year.
- ❑ Cohort-Survival Ratio Method (CSR) was used to project enrollments five years into the future.



# HISTORICAL ENROLLMENTS (PK-12) 2013-14 TO 2022-23



# HISTORICAL ENROLLMENTS BY GRADE CONFIGURATION 2013-14 TO 2022-23



# ENROLLMENT PROJECTION METHOD

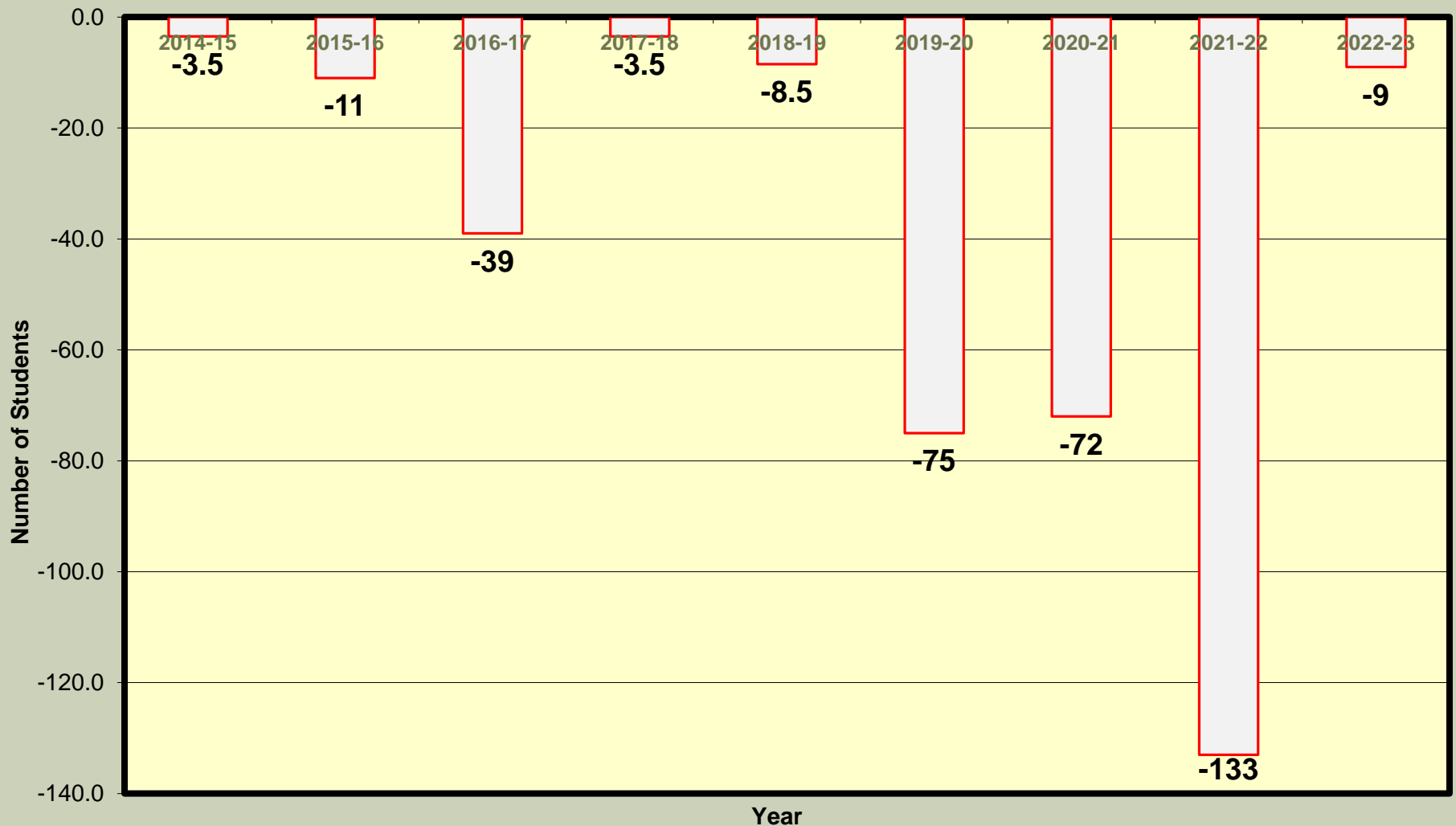
## COHORT SURVIVAL RATIO

- ❑ Ratios are calculated for each grade progression. (Ex. 100 1<sup>st</sup> graders in 2021-22 become 95 2<sup>nd</sup> graders in 2022-23 = 0.95)
- ❑ Ratios above 1.000 = inward migration, below 1.000 = outward migration
- ❑ Survival ratios were computed for ten historical years. 12 of 13 average ratios were above 1.000 indicating net inward migration.
- ❑ Average ratios were applied to current enrollments to project future enrollments.

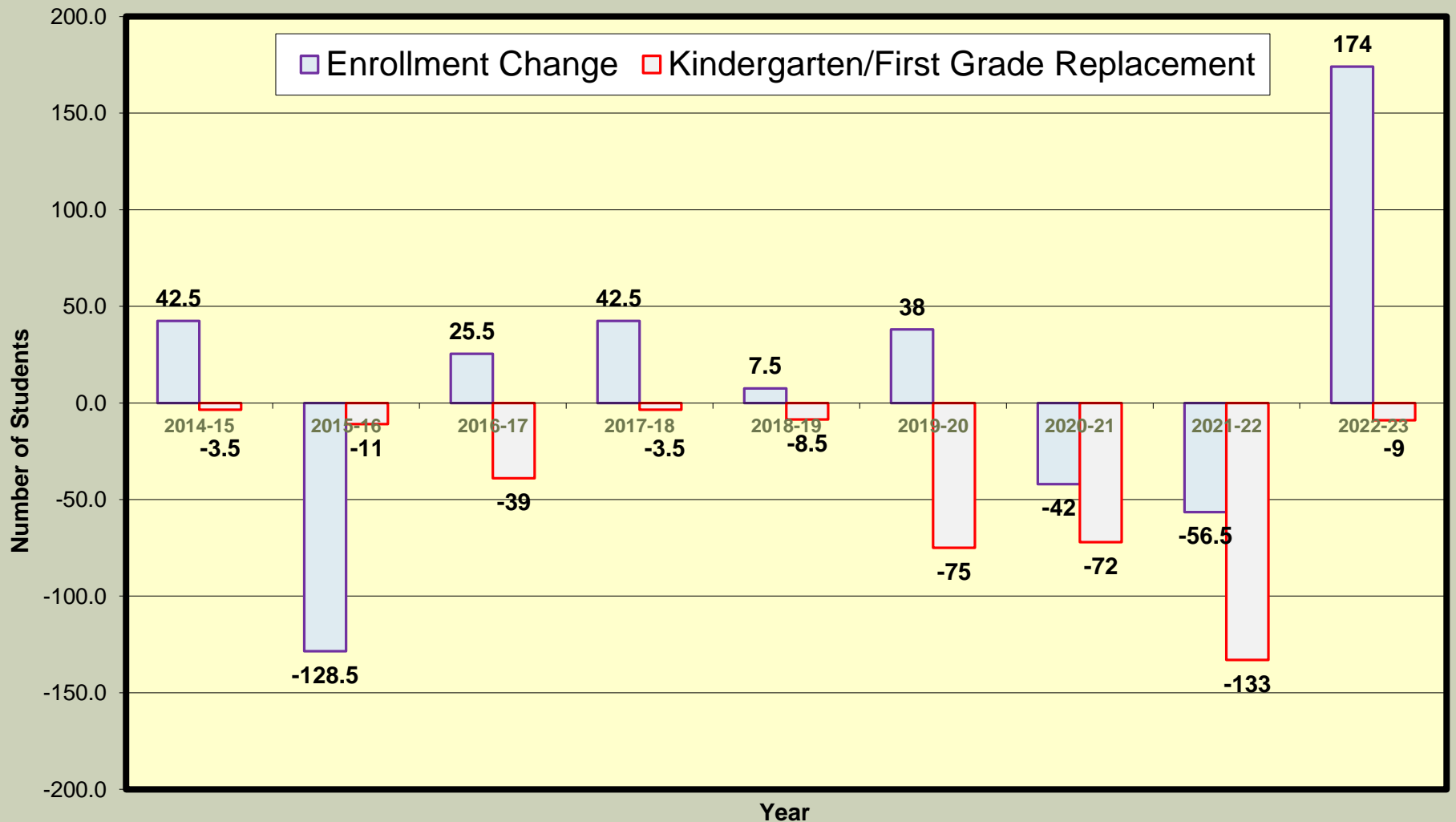
# KINDERGARTEN/ FIRST GRADE REPLACEMENT

- ❑ Negative kindergarten/first grade replacement (KR) has occurred in each of last 9 years, ranging from 3.5-133 per year.
- ❑ District had half-day kindergarten program prior to 2020-21; compare to first grade in those years.
- ❑ Negative KR- Number of entering kindergarten students is less than number of graduating 12<sup>th</sup> grade students from prior year.
- ❑ Positive KR- Number of entering kindergarten students is greater than number of graduating 12<sup>th</sup> grade students from prior year.
- ❑ With the exception of the pandemic years, KR magnitudes have been fairly small, indicating sizes of entering and exit grades are fairly similar.

# HISTORICAL KINDERGARTEN/ FIRST GRADE REPLACEMENT



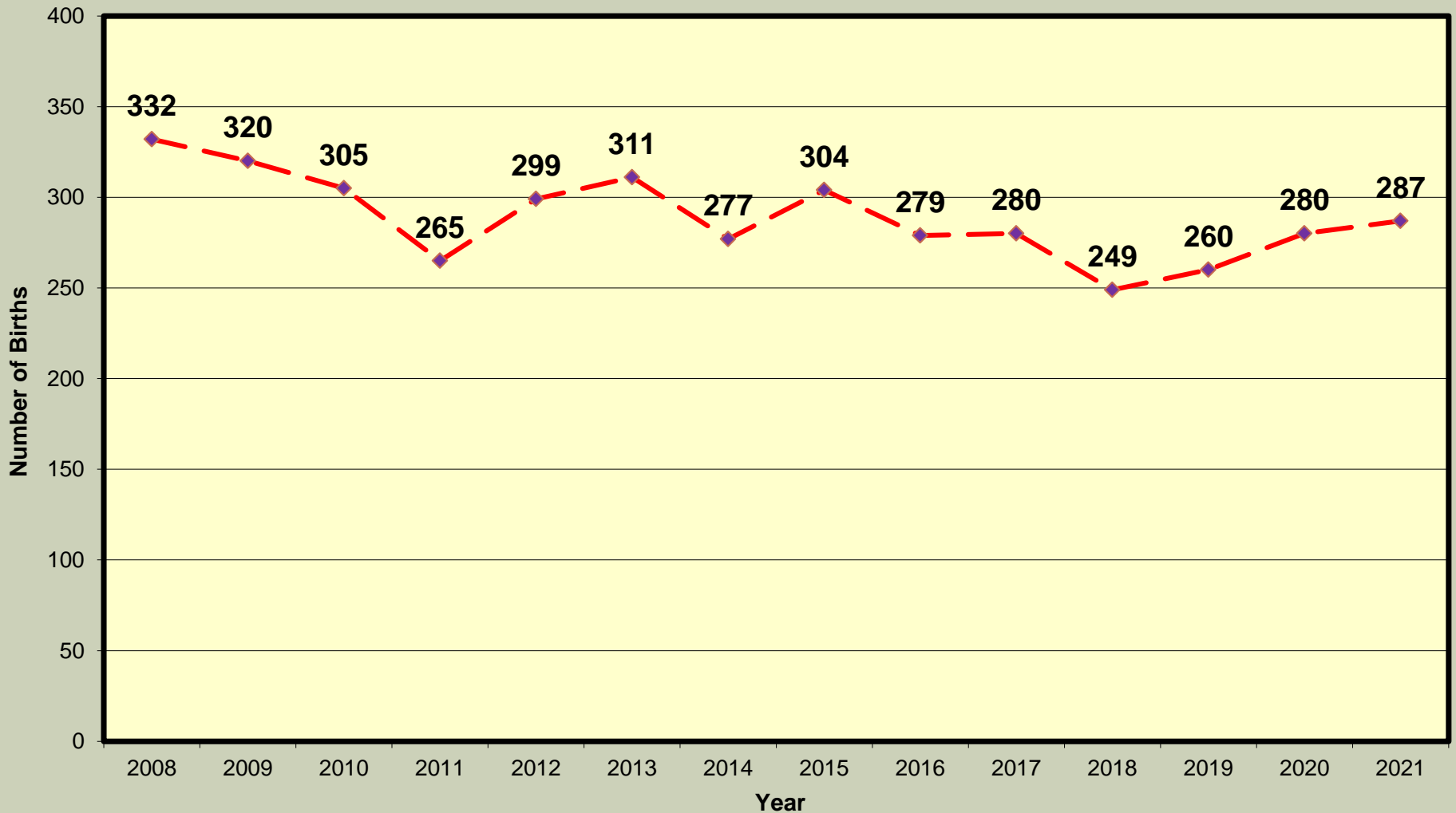
# TOTAL ENROLLMENT CHANGE VS. KINDERGARTEN/FIRST GRADE REPLACEMENT



# BIRTH COUNTS

- ❑ Births are used to project kindergarten students 5 years later.
- ❑ Analyzed birth data from 2008-2021. Birth counts have been fairly stable since 2011, ranging from 249-311.
- ❑ 287 births in 2021, 45 fewer than 2008 (332).

# MOUNT OLIVE HISTORICAL BIRTH COUNTS 2008-2021





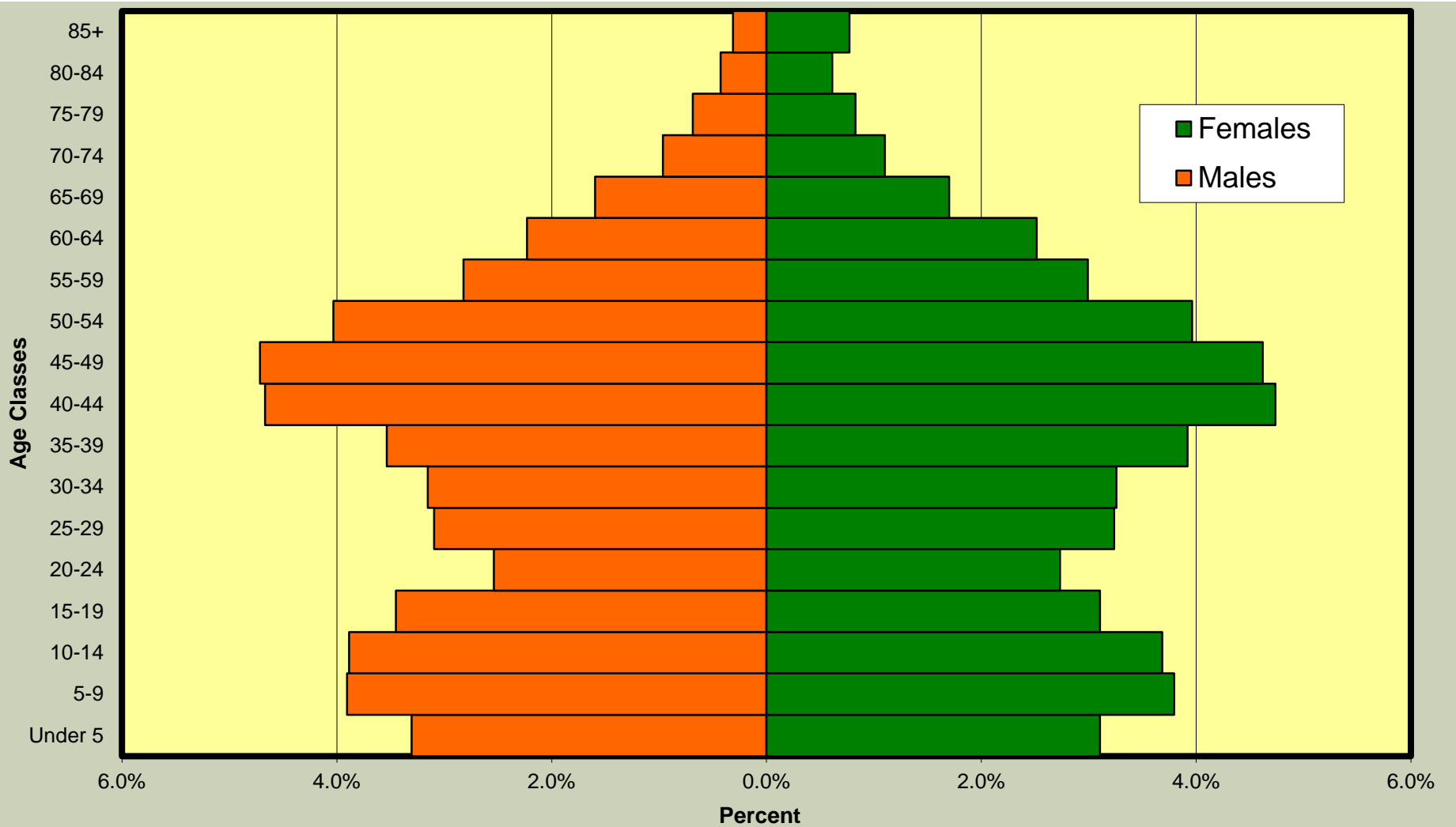
# BIRTH COUNTS AND BIRTH-TO-KINDERGARTEN SURVIVAL RATIOS

Birth Year	Number of Births Mount Olive	Number of Kindergarten Students 5 Years Later	Birth-to-Kindergarten Survival Ratio
2008	332	275	0.828
2009	320	283	0.884
2010	305	267	0.875
2011	265	294	1.109
2012	299	297	0.993
2013	311	295	0.949
2014	277	318	1.148
2015	304	278	0.914
2016	279	286	1.025
2017	280	336	1.200
2018	249	N/A	N/A
2019	260	N/A	N/A
2020	280	N/A	N/A
2021	287	N/A	N/A

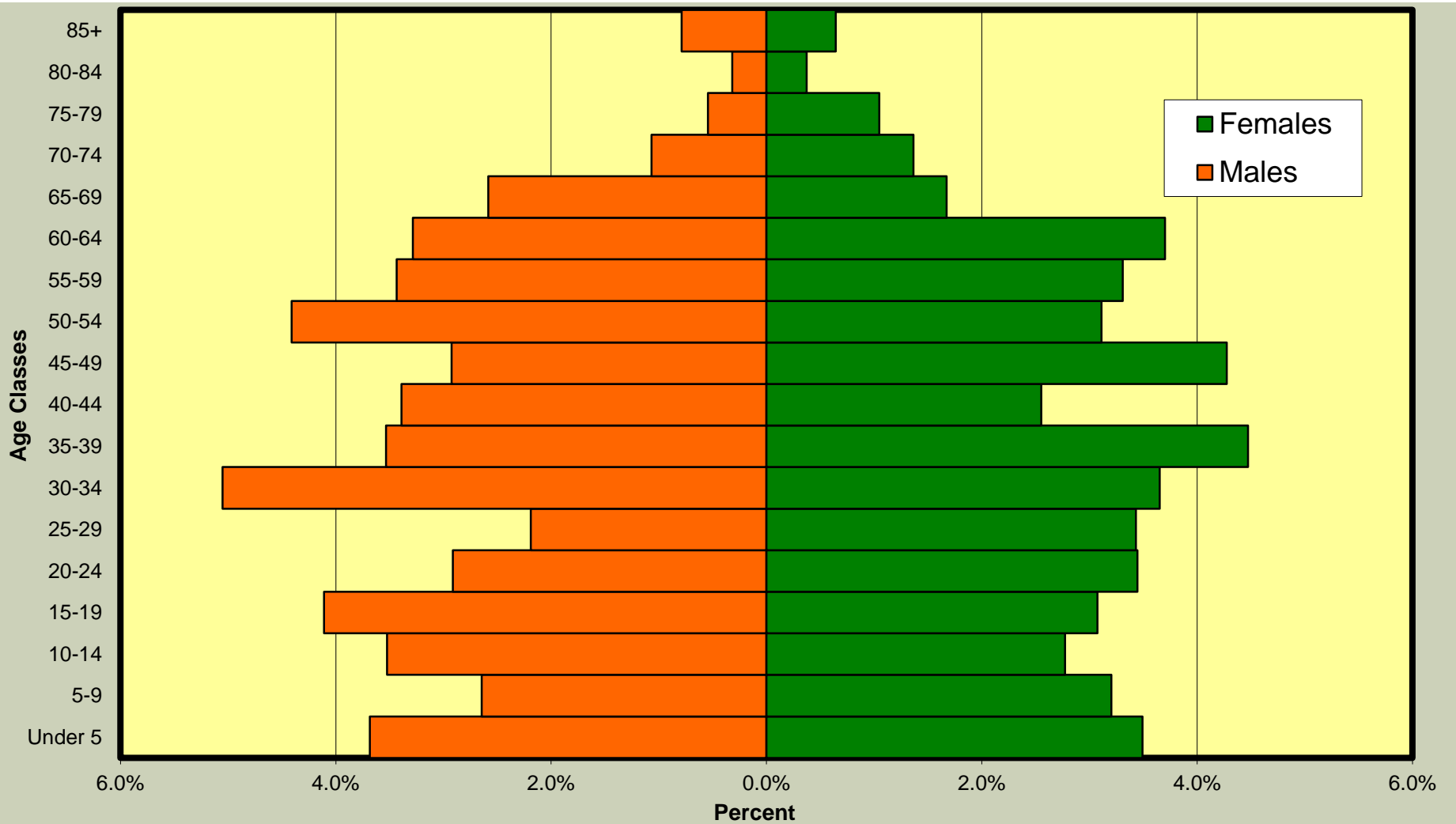
Full-Day K



# AGE PYRAMID MOUNT OLIVE 2010 CENSUS



# AGE PYRAMID MOUNT OLIVE 2016-2020 ACS



# CHANGE IN MALES AND FEMALES 2010 TO 2016-2020 MOUNT OLIVE

Age Group	Males		Females	
	Numerical Change	Percentage Point Change	Numerical Change	Percentage Point Change
Under 5	+136	+0.4	+137	+0.4
5-9	-333	-1.3	-141	-0.6
10-14	-74	-0.4	-234	-0.9
15-19	+218	+0.7	+16	0.0
20-24	+128	+0.4	+228	+0.7
25-29	-237	-0.9	+82	+0.2
30-34	+574	+1.9	+140	+0.4
35-39	+28	0.0	+191	+0.6
40-44	-333	-1.3	-594	-2.2
45-49	-480	-1.8	-63	-0.3
50-54	+141	+0.4	-214	-0.8
55-59	+200	+0.6	+116	+0.3
60-64	+323	+1.1	+363	+1.2
65-69	+298	+1.0	+6	0.0
70-74	+38	+0.1	+85	+0.3
75-79	-36	-0.1	+70	+0.2
80-84	-28	-0.1	-64	-0.2
85+	+140	+0.5	-31	-0.1

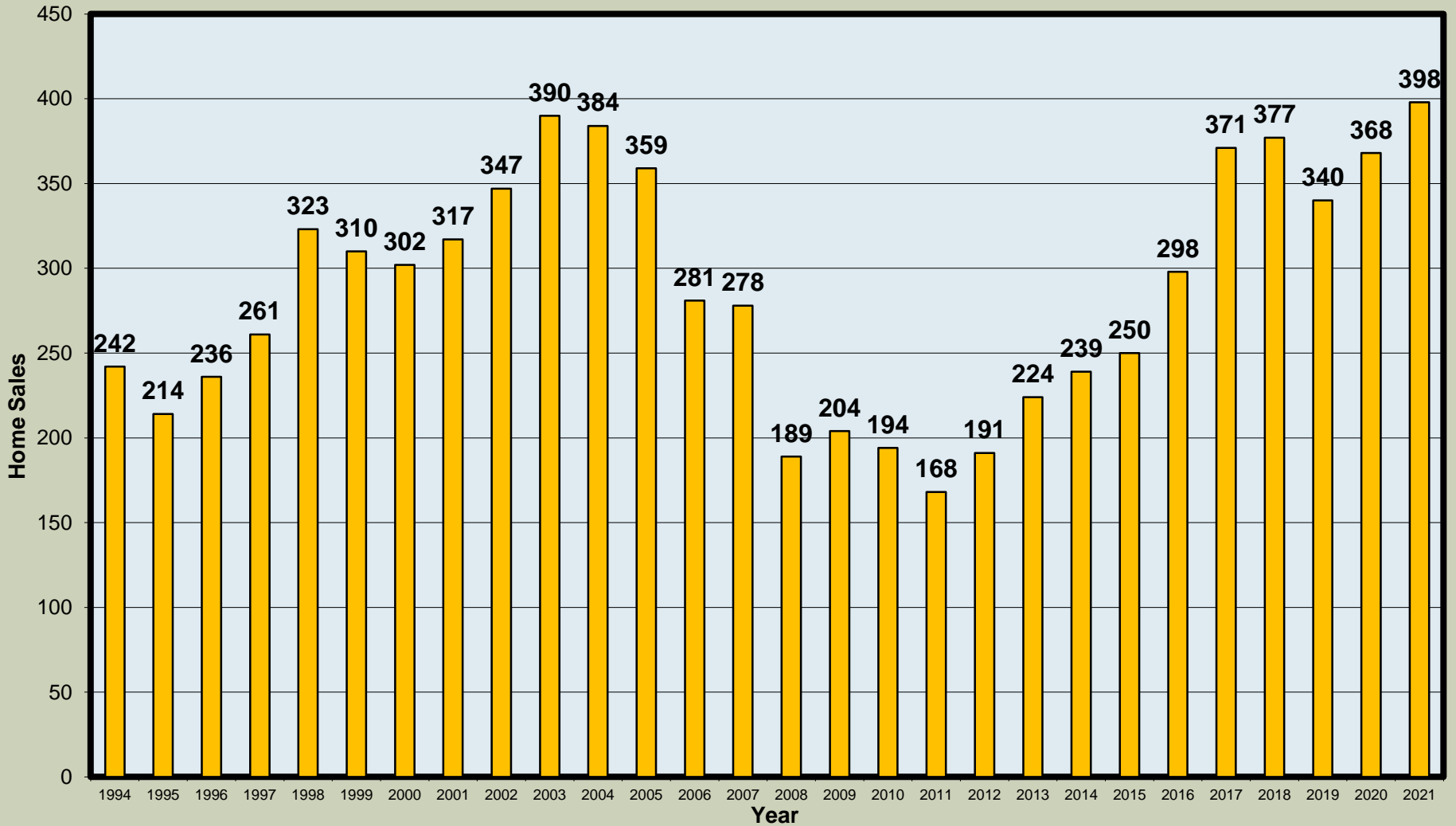
# MOUNT OLIVE APPROVED AND PROPOSED NEW HOUSING

Development/ (Location)	Number of Units	Bedroom Distribution	Housing Type	Notes/Project Status
<b>Mountain Ridge</b> (Route 46)	<b>90</b>	Market-Rate TH (269) 3-BR (mostly)  Affordable APT (54) 11 1-BR 32 2-BR 11 3-BR	Townhouse (Market-Rate)  Apartment (Affordable)	Nearing completion. Development will have a total of 323 units. Approximately 187 COs have been issued for the townhouses. 54 units have been set aside for Low-Moderate Income households, whereby 46 are occupied.
<b>Continental Crossing</b> (former I.T.C. East)	<b>494</b>	Market-Rate TH (248) 3-BR  Affordable TH (100) 20 1-BR 60 2-BR 20 3-BR  Detached Single-Family (146) Unknown bedroom distribution	Townhouse (Market-Rate and Affordable)  Detached Single-Family	Has not been approved. Located at former International Trade Center. Units will be constructed on Canal and Ridge sites in three phases. Canal site will have 80 townhouse units in 16 buildings. Ridge site will have 168 townhouse units in 30 buildings and 100 stacked affordable townhouse units in 11 two-story buildings. Potential to get approved in early 2023.
<b>Peacock Run at Flanders Village</b> (50 Main Road)	<b>8</b>	N/A	Detached Single-Family	Approved.
<b>Habitat for Humanity</b> (Stonewald Drive)	<b>10</b>	N/A	Detached Single-Family	Has not been approved. To be located at former Cobblestone Health Care facility.
<b>Total</b>	<b>602 Units</b>			

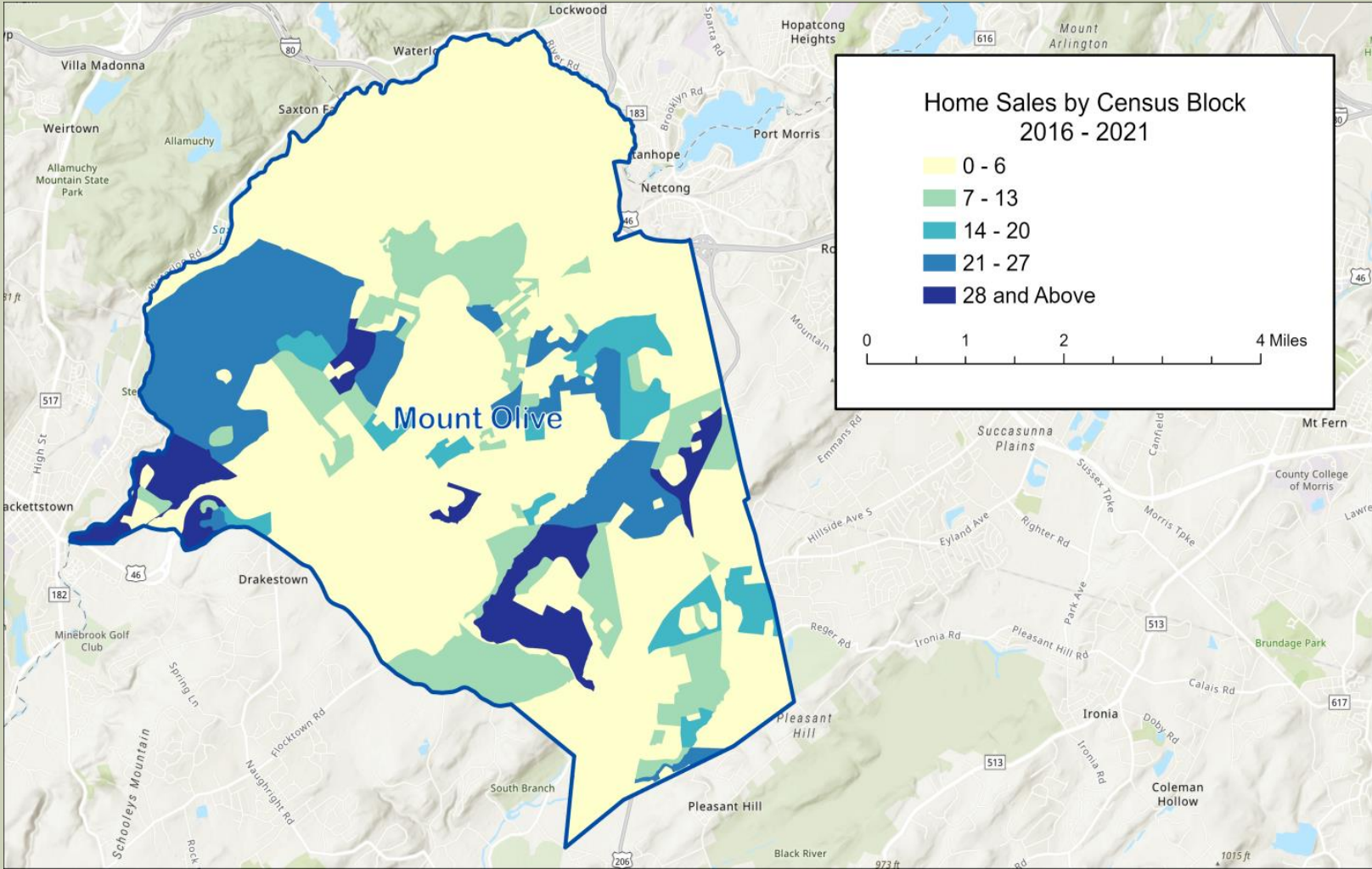
# ESTIMATE OF STUDENTS FROM NEW HOUSING

- Student yields from Rutgers University Center for Urban Policy Research were used to determine impact of new developments.
- 343 public school children (K-12) are projected from new housing – Rough estimate as two developments have not been approved and may not come to fruition, or may change in scope before being approved.
- Enrollment projections were modified to account for additional children from new developments.

# HOME SALES MOUNT OLIVE 1994-2021



# HOME SALES MOUNT OLIVE 2016-2021





# ENROLLMENT PROJECTIONS

- Enrollments were projected from 2023-24 through 2027-28.
- Two sets of projections- baseline and adjusted for housing growth (assuming all proposed and approved housing gets constructed).
- Baseline – 4,924 in 2027-28 (+193)
- Adjusted for Housing Growth – 5,100 in 2027-28 (+369)

# ENROLLMENT PROJECTIONS BY GRADE CONFIGURATION

Historical	PK-5		6-8		9-12	
2022-23	2,153		1,105		1,473	
Projected	PK-5 Baseline	PK-5 Adjusted	6-8 Baseline	6-8 Adjusted	9-12 Baseline	9-12 Adjusted
2023-24	2,179	2,188	1,127	1,133	1,484	1,491
2024-25	2,195	2,207	1,124	1,131	1,507	1,516
2025-26	2,190	2,227	1,147	1,166	1,523	1,549
2026-27	2,225	2,284	1,131	1,163	1,546	1,586
2027-28	2,237	2,310	1,161	1,208	1,526	1,582
5-year Change	+84	+157	+56	+103	+53	+109

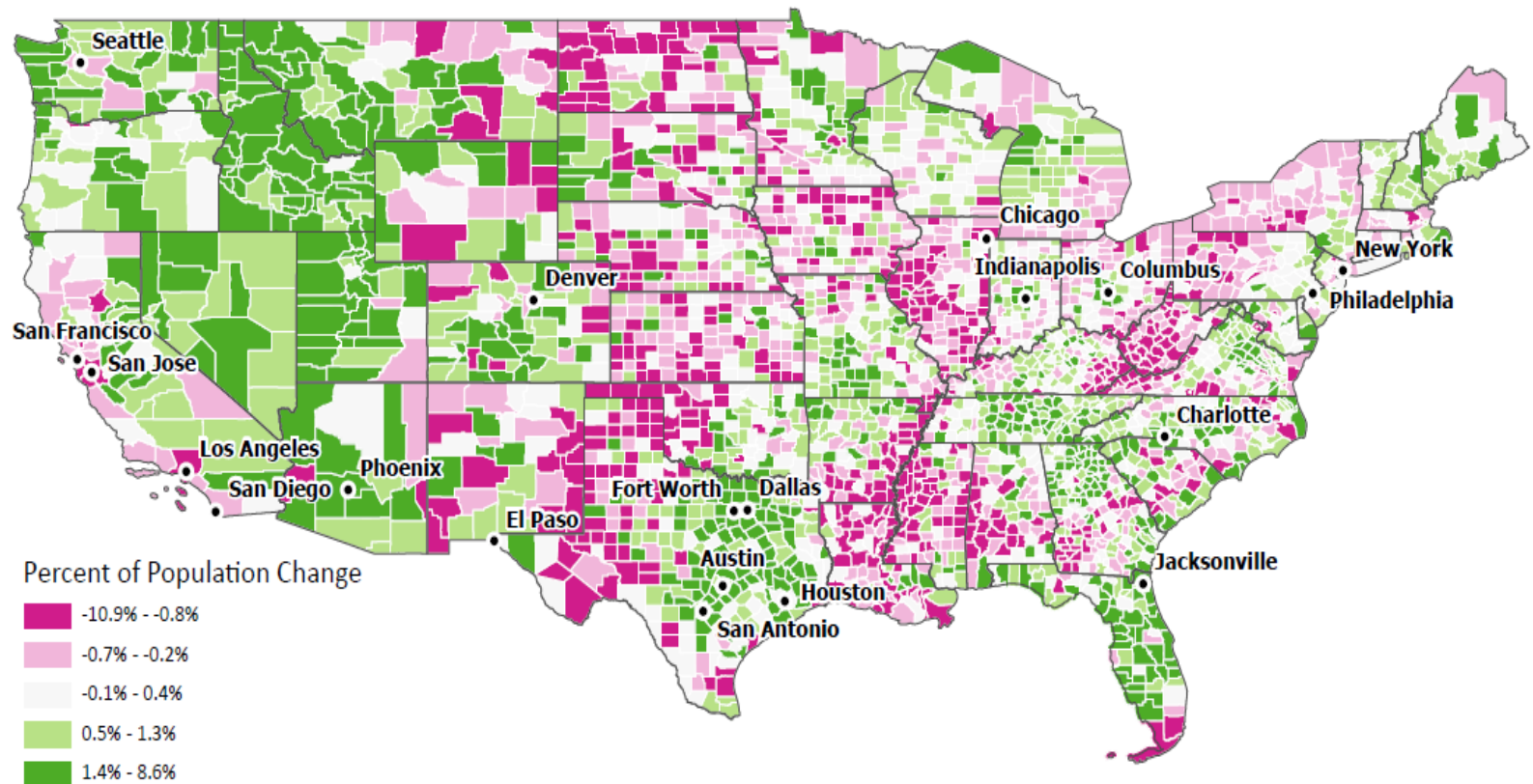
# CAPACITY ANALYSIS

Grade Configuration	Capacity	Current Enrollment 2022-23	Difference	Projected Enrollment 2027-28	Difference
Elementary (PK-5)	1,954	2,153	-199	2,310	-356
Mount Olive M.S. (6-8)	1,153	1,105	+48	1,208	-55
Mount Olive H.S. (9-12)	1,493	1,473	+20	1,582	-89

# COVID-19

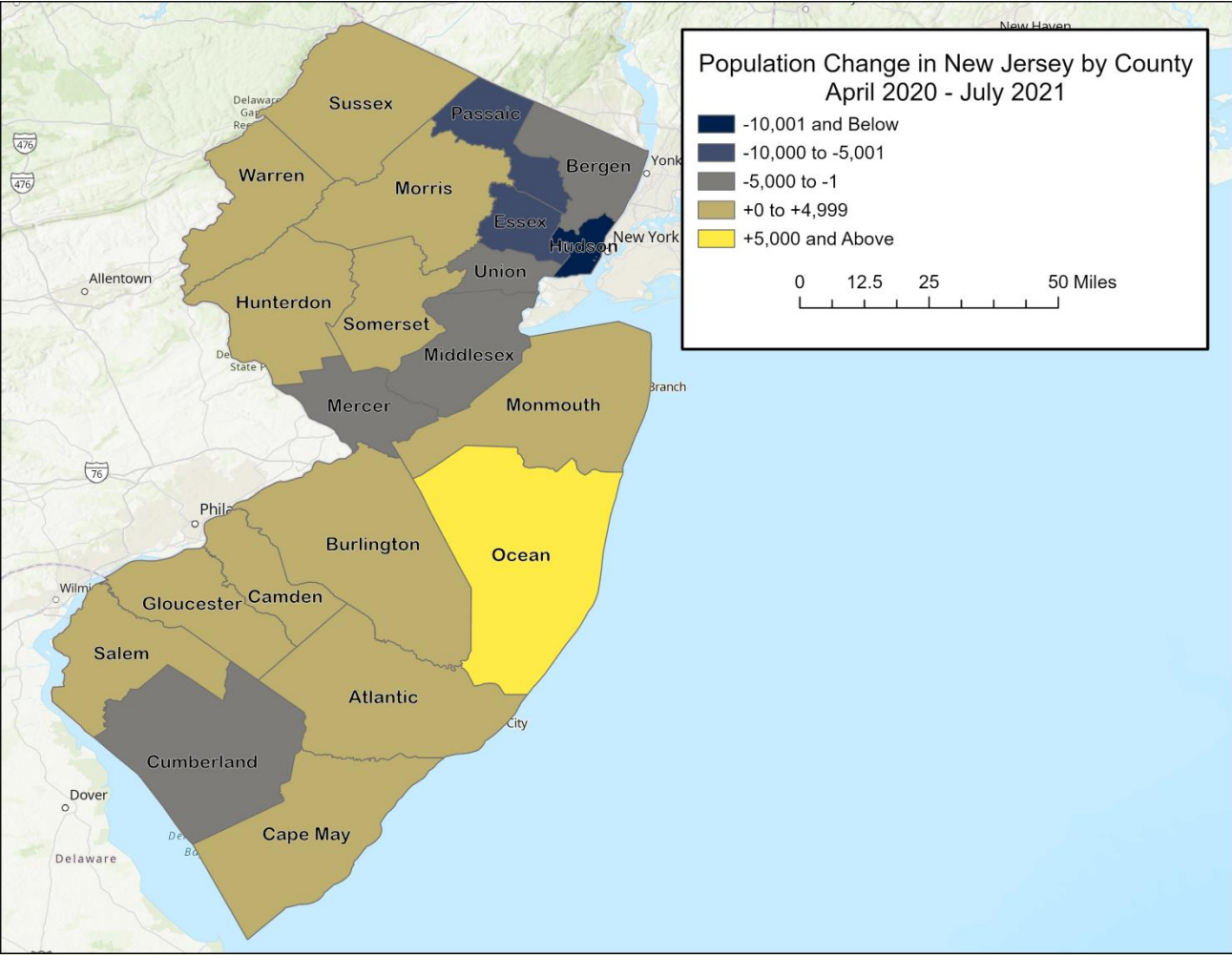
- Effects of COVID-19 on enrollment are varied across the country.
- Vermont has had an increase after years of enrollment decline (15% increase in some towns).
- Big declines in large school districts- L.A (-11,000), Broward County (-8,500), Orange County (-8,000), Charlotte-Mecklenburg (-5,000).
- People are leaving large metro areas to live in rural areas, either in 2nd homes or a purchased home. Will they return?

# USA POPULATION CHANGE APRIL 2020 TO JULY 2021



Source: US Census Bureau, Population Estimates Program 2021

# NJ POPULATION CHANGE APRIL 2020 TO JULY 2021



Source: US Census Bureau, Population Estimates Program 2021

# SUMMARY

- Enrollments (PK-12) are projected to increase in next five years.
  1. Inward migration of families with children is evident (12 of 13 average survival ratios are above 1.000).  
Common in excellent school districts.
  2. 600+ new housing units to come online

