

Population Data and Projections for the Norris School District



CENTER FOR PUBLIC AFFAIRS RESEARCH

David Drozd, M.S.

402.554.2132 ddrozd@unomaha.edu

Norris School District Board of Education Meeting

December 9, 2020



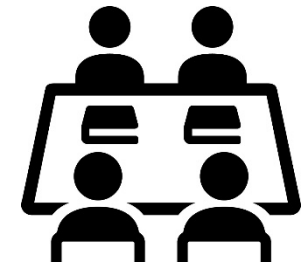
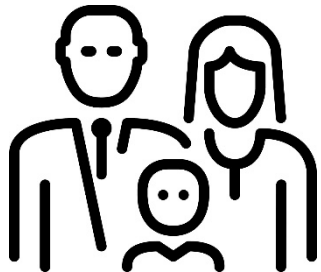
@UNOmahacpar
#NebraskaByTheNumbers



@unocpar

About the projections to 2040...

1. Use what has occurred in the past to guide what may likely happen in the future
 - Has worked well for projecting changes in Lancaster County overall (completed for planning dept.)
2. Are based upon ZIP codes that proxy the Norris School District boundaries
3. Apply calculated fertility and migration rates occurring in the local area
 - Migration rates determined for single years of age, capturing the unique patterns of college-related moves



About the projections to 2040 (continued)

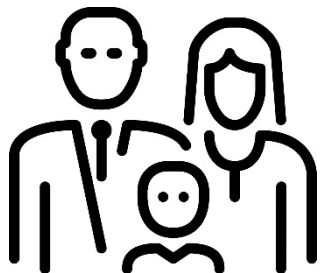
4. Start with 2010 Census figures by single year of age; allows comparison of model's results to actual data in the 2010s

5. Calculate the total population by age in each ZIP code and then apply percentages of children enrolling from each ZIP code

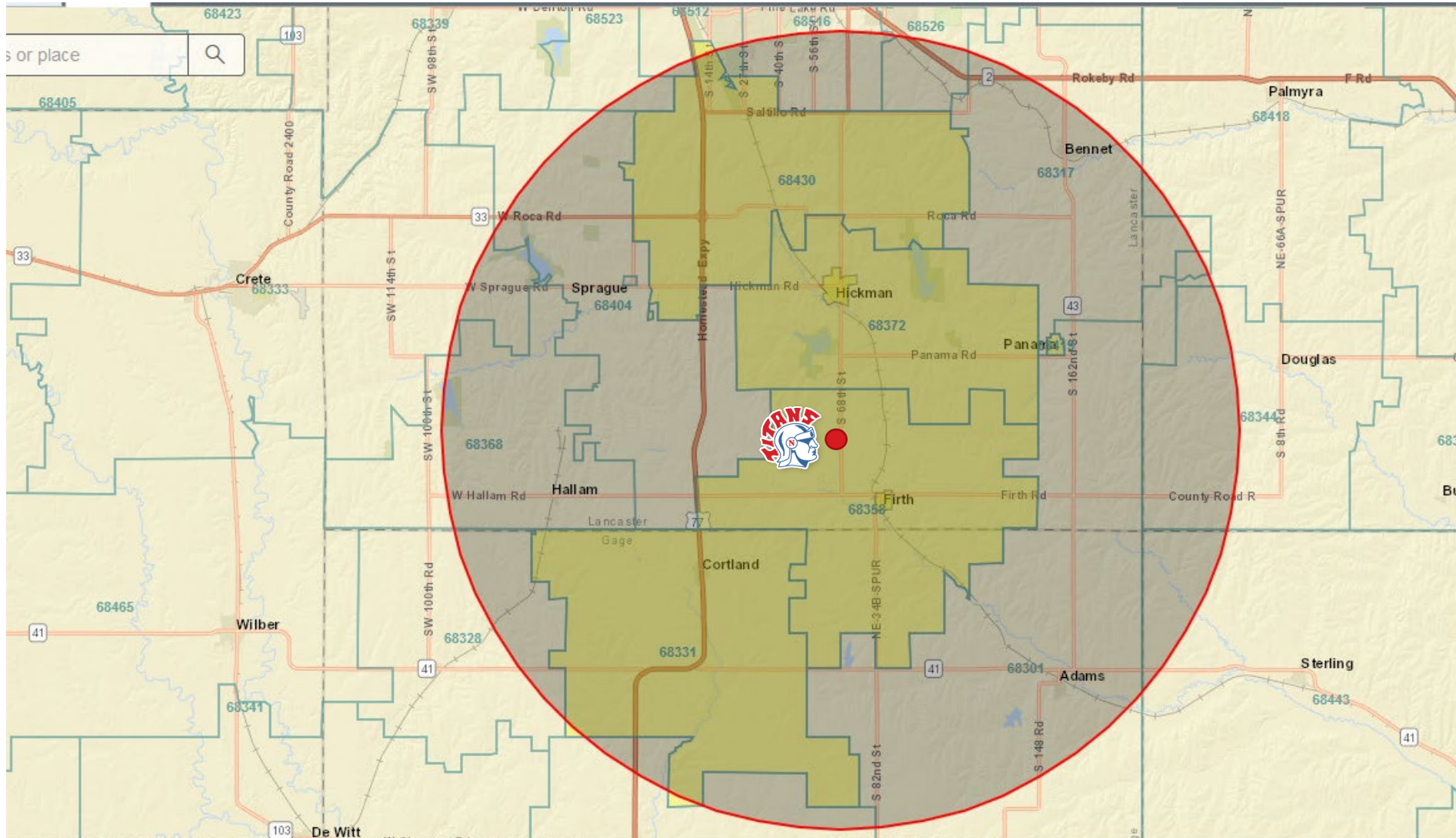
- Very high percentages for ZIP codes near the school; very low percentages for Lincoln ZIP codes

6. Model calculates the various levels of growth; this is applied to actual Norris enrollment data by grade or ZIP code

7. No one can predict the future with certainty but using logical assumptions, projections aid our planning



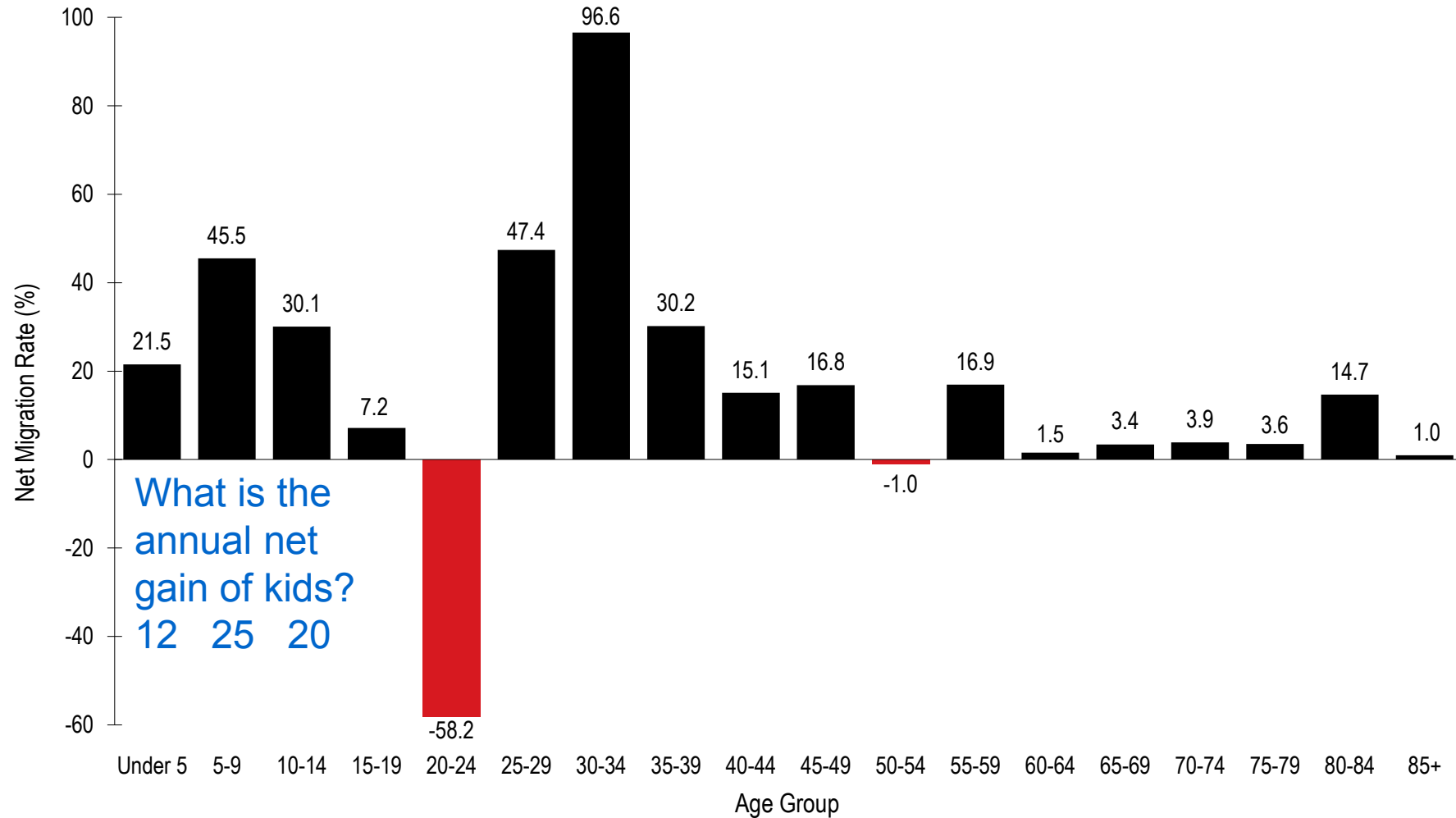
15 mile radius from Norris campus with key spatial ZIP codes



Note: large portions of 68368 and 68404 are in the Crete School District; most of 68317 is in the Palmyra School District

The core Norris area around Hickman and Firth has strong net immigration of younger workers and children

Five-year net migration rates in ZIP codes 68358 and 68372 by age for 2000-2010 using two five-year periods

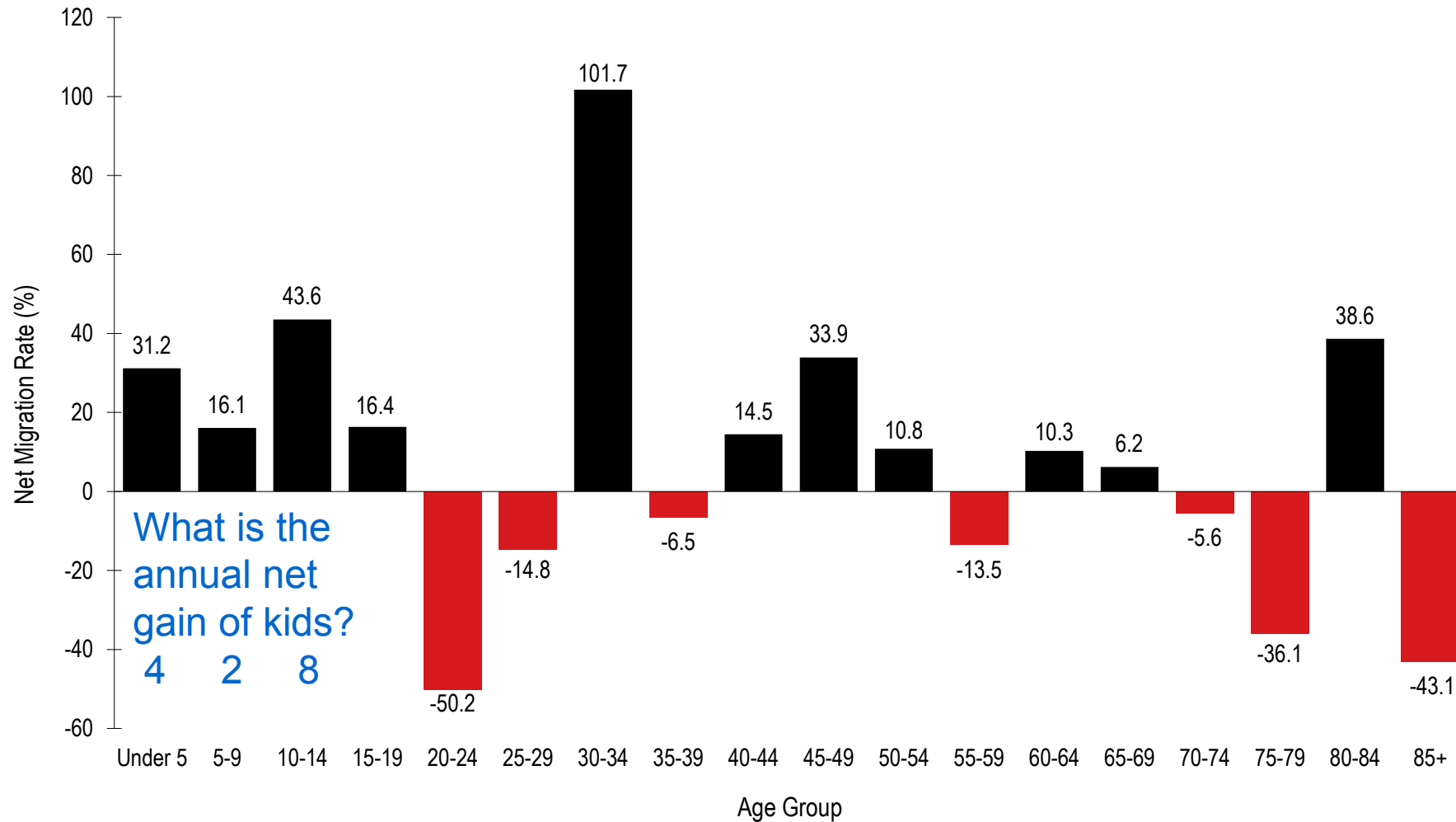


What is the annual net gain of kids?
12 25 20

Note: overall 5-year net migration rate = 15.3%

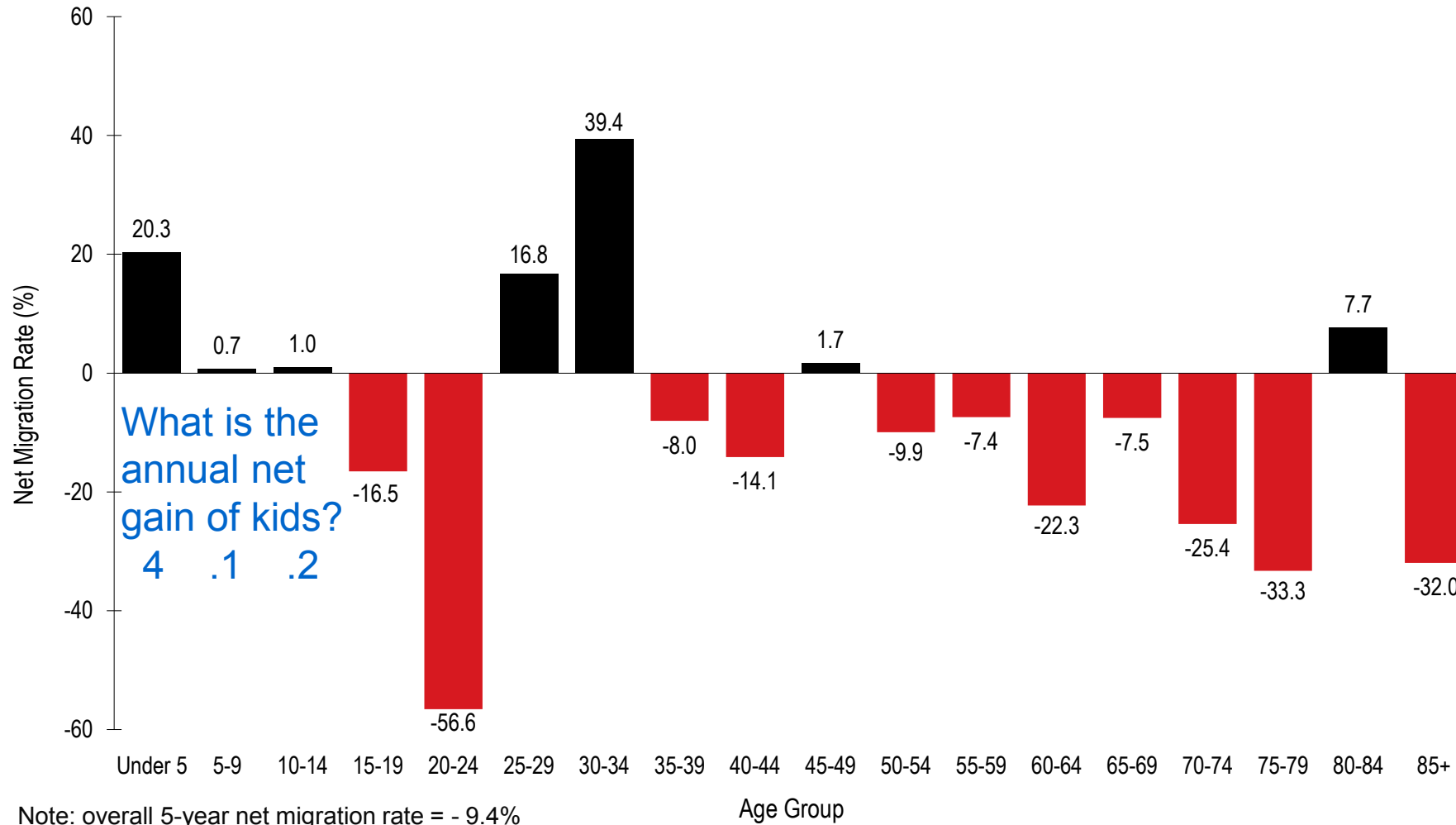
The Roca area has a concentrated net immigration of younger working age families and children

Five-year net migration rates in ZIP code 68430 by age for 2000-2010 using two five-year periods



Note: overall 5-year net migration rate = 6.9%

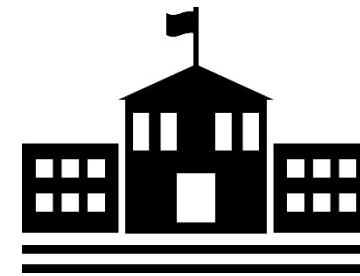
The extended more rural Norris area has a small net immigration of younger working age families and children
Five-year net migration rates in ZIP codes 68368, 68404, and 68419 by age for 2000-2010 using two five-year periods



What is the annual net gain of kids?
 4 .1 .2

Challenges and Notes

1. The Nebraska Dept. of Health and Human Services did not release ZIP code level births as expected
 - Recently changed their data release policy
 - Had to rely only on figures for key Lancaster County ZIP codes from the Lancaster Health Dept.
 - Held other ZIP codes at the 2010-2019 average of providing 15.62% of enrollments into the future



Challenges and Notes (continued)

2. Between 2010 and 2018, the projection model's births are nearly an exact match to actual occurrences (0.8% difference)

- Bodes well for the model accurately predicting future births
- Lancaster County's fertility rate declined 10% from 2010 to 2019; trend was replicated for Norris
- Each ZIP code's rate reduced by 1%/year in the 2010s, 0.5%/year in the 2020s, and held constant thereafter

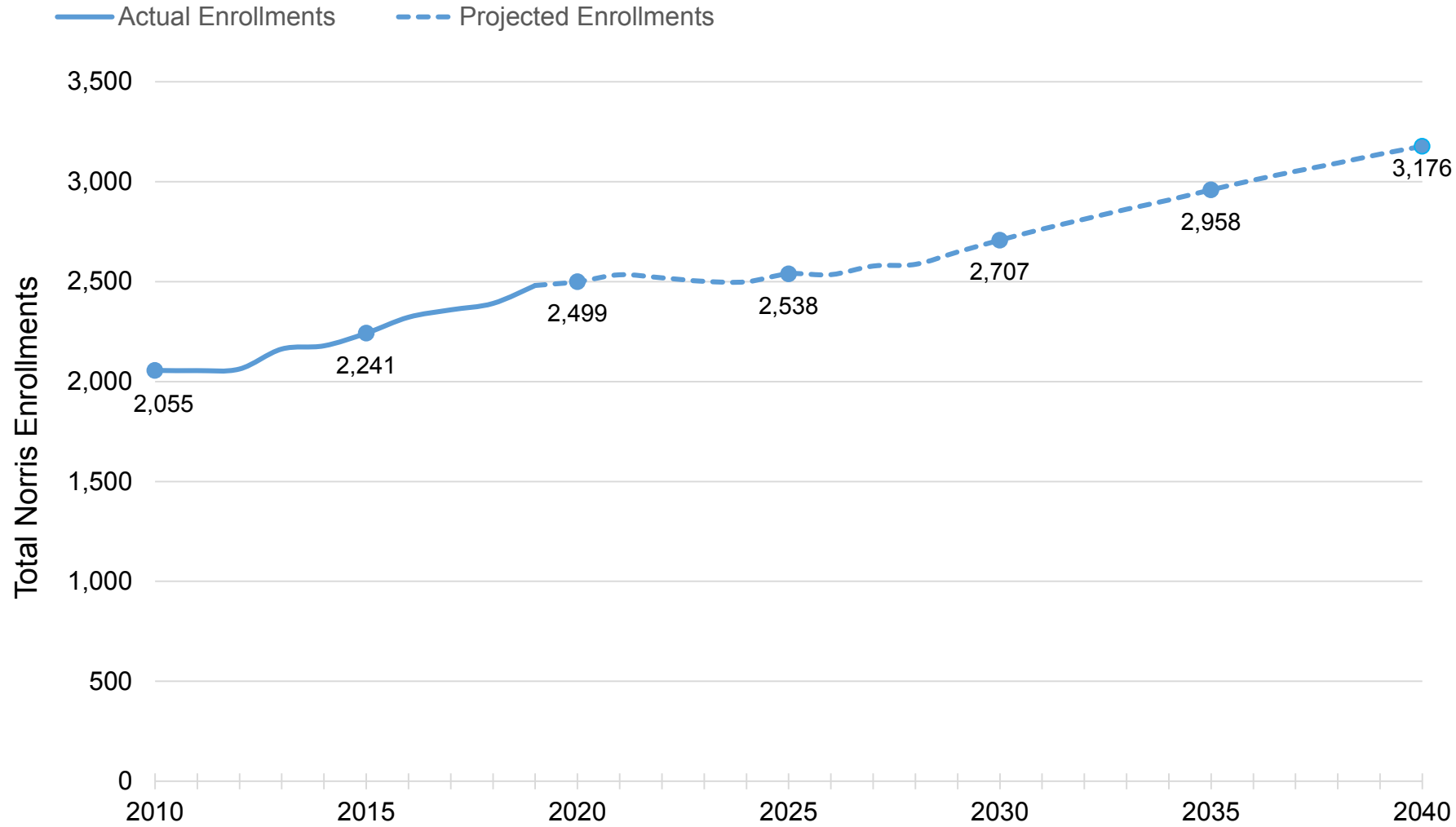
3. New Lincoln Public School locations will likely impact Norris enrollments

- Hard to estimate exact impacts but the already small portion of children from Lincoln enrolling at Norris was reduced



Norris enrollments should continue growing, moderately in the 2020s and accelerating in the 2030s

Norris School District actual and projected enrollments: 2010 to 2040



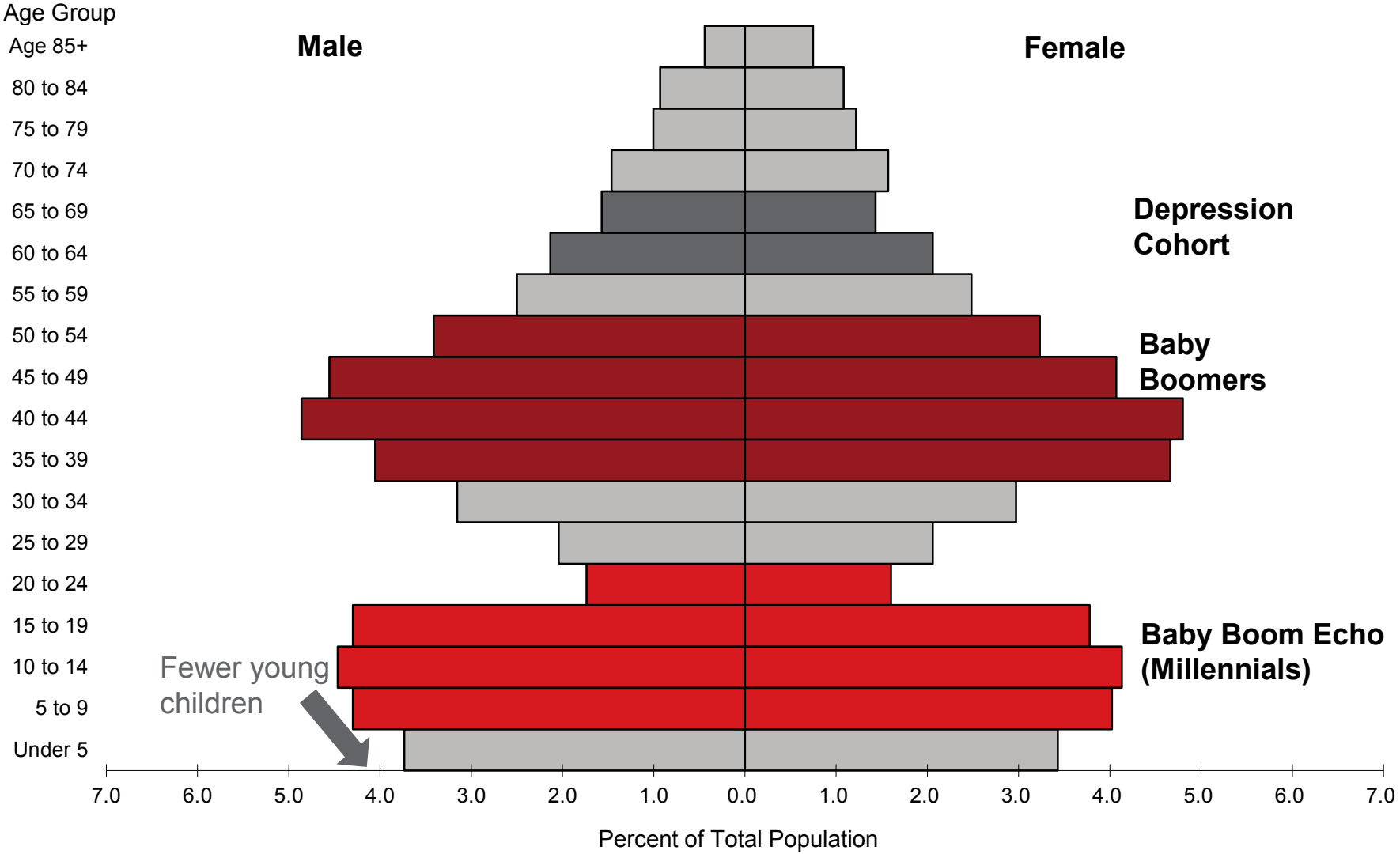
2020 to 2040 Change:
+ 677 students or 27%

Enrollments Change:

Decade	Number	Percent
2010s	444	21.6
2020s	208	8.3
2030s	469	17.3

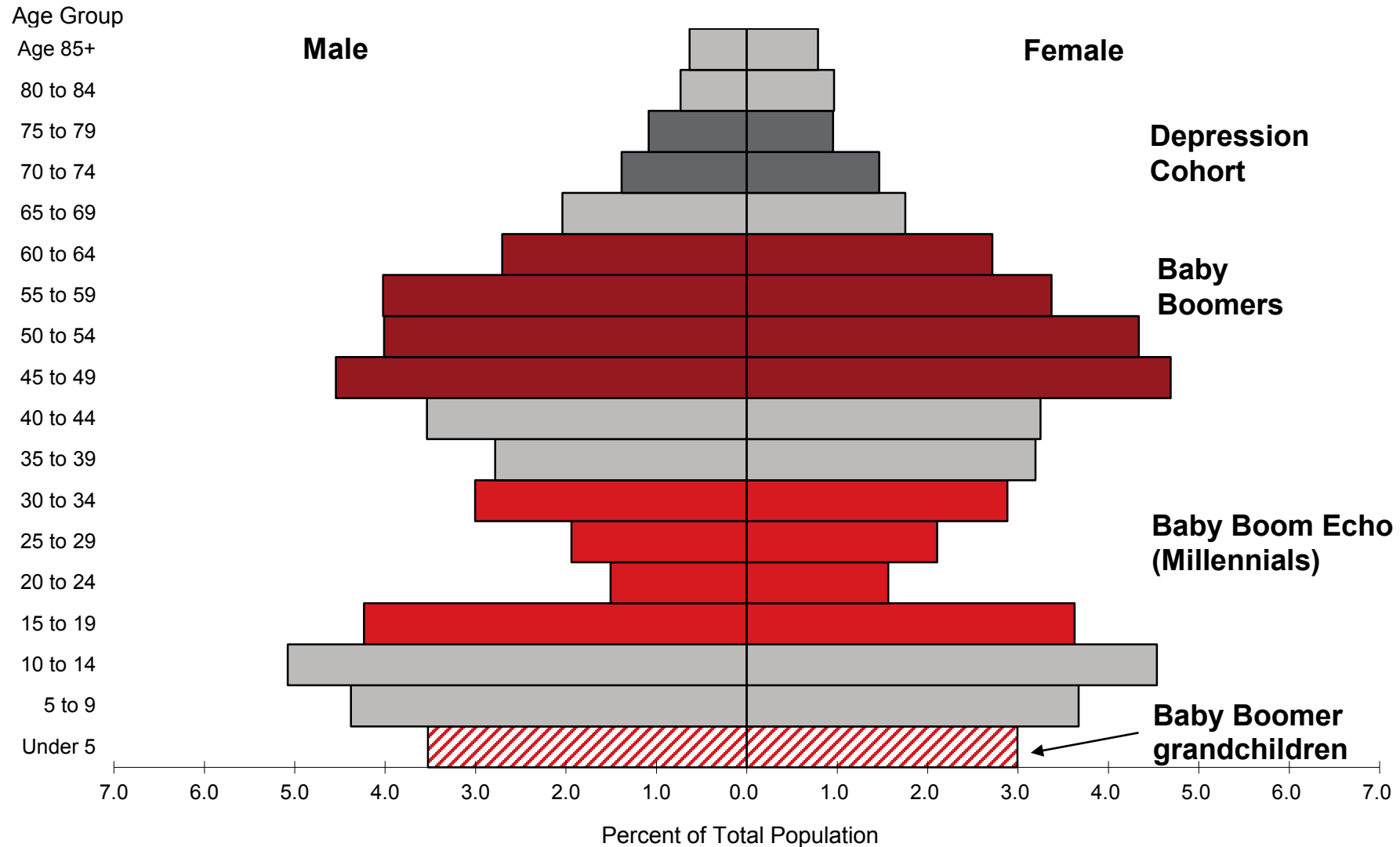
The Norris School District population structure is not characterized by a broad base of young children but rather older children

Norris School District population by sex and five-year age group: 2000



Ten years later in 2010 the Norris School District had a nearly identical population structure

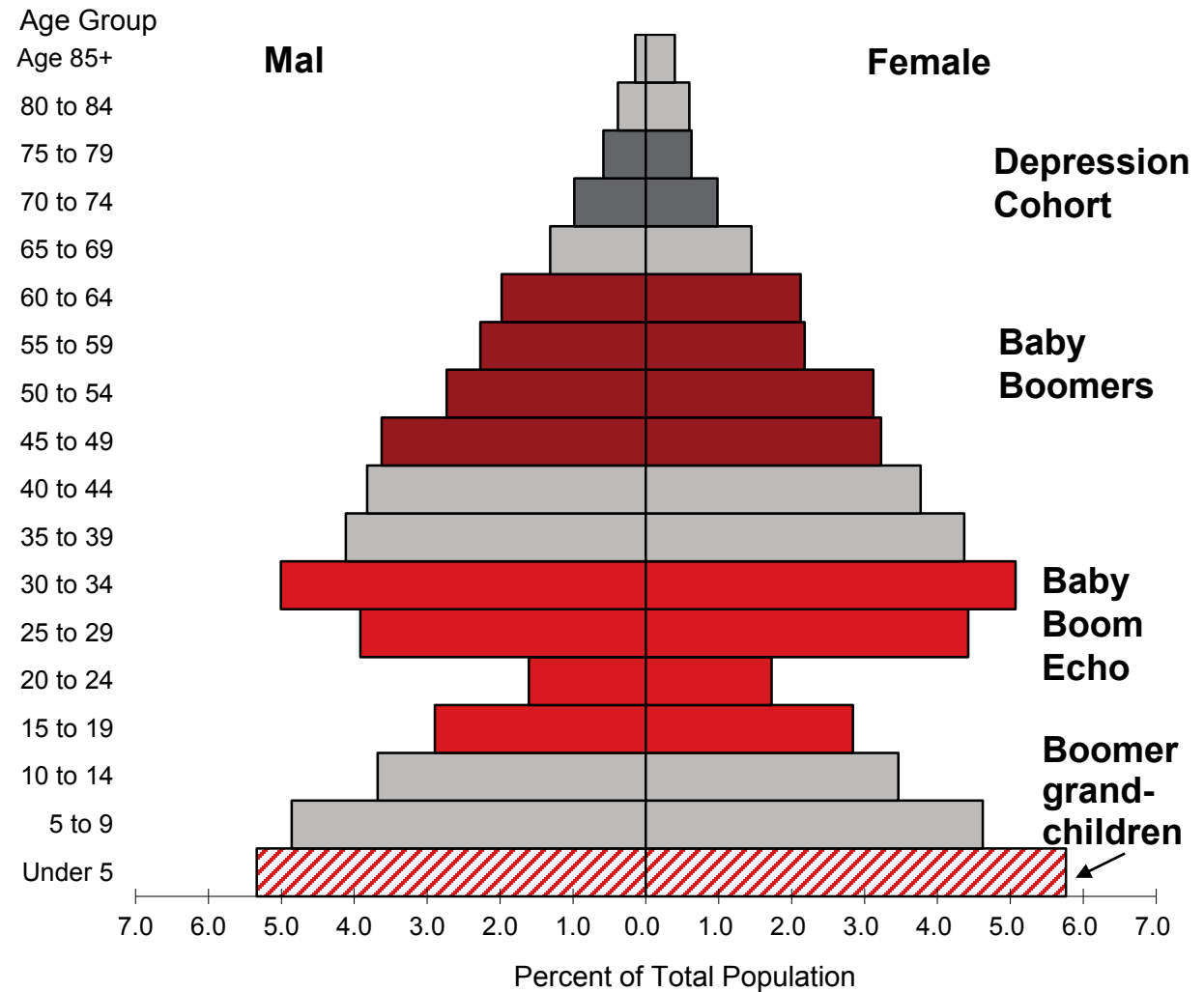
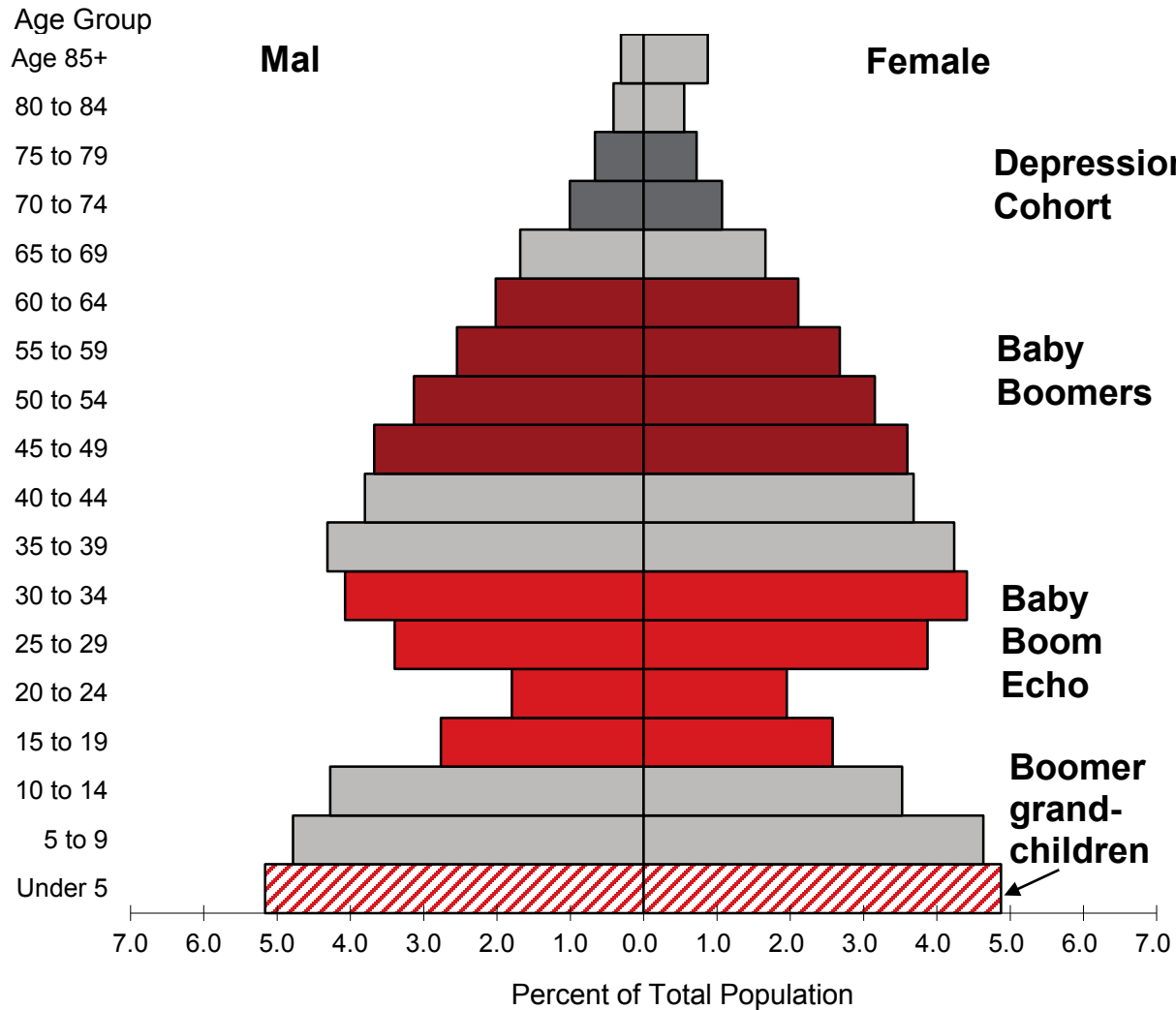
Norris School District population by sex and five-year age group: 2010



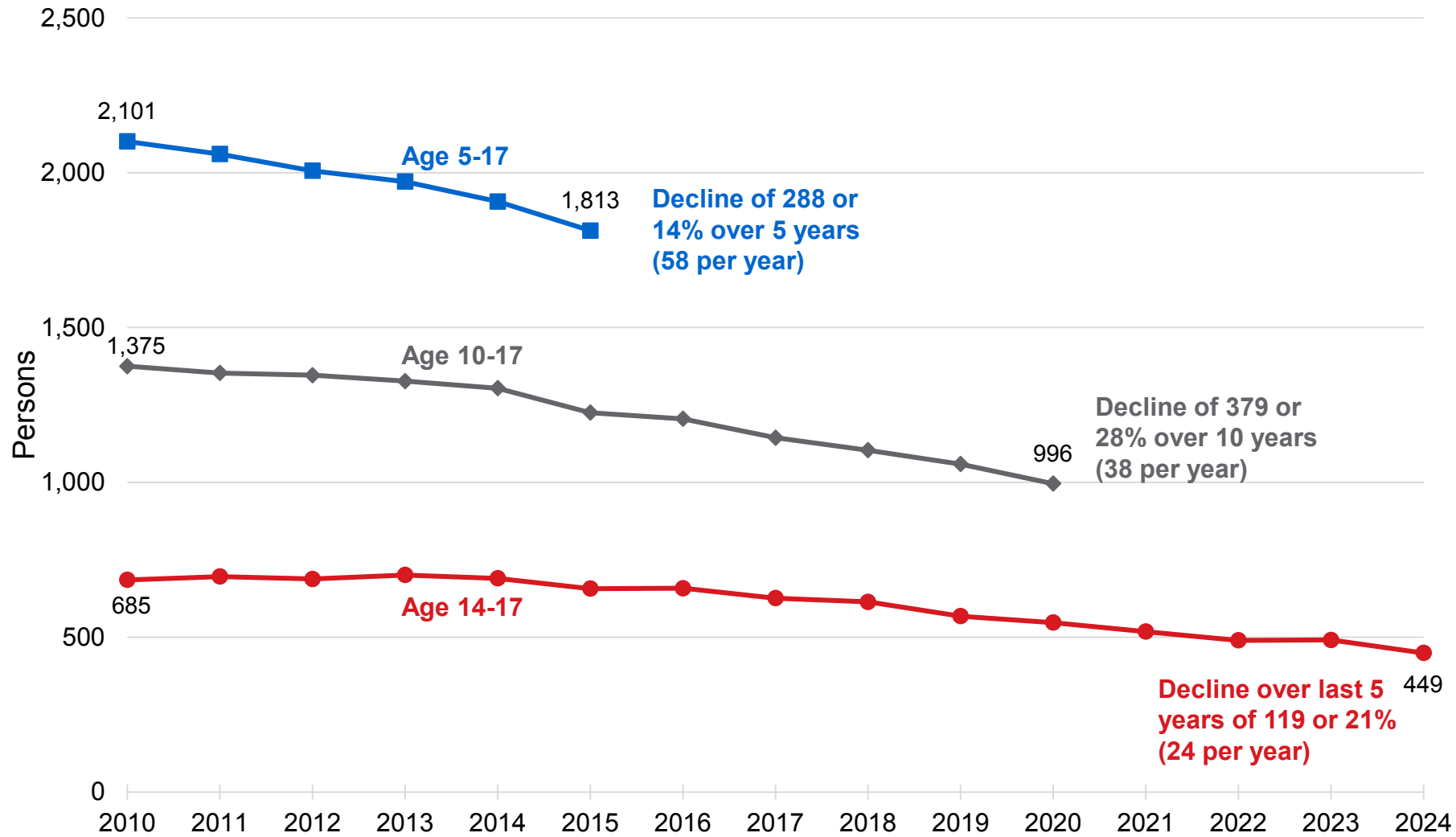
Comparable fast-growing districts have a broad base of young children and relatively more people at key reproductive ages

Gretna School District population by sex and five-year age group: 2010

Bennington District population by sex and five-year age group: 2010



Flowing the single year of age 2010 Census data forward shows declining school populations when migration is not considered
 2010 Census population by single year of age for the Norris School District aged forward in time without deaths or migration incorporated

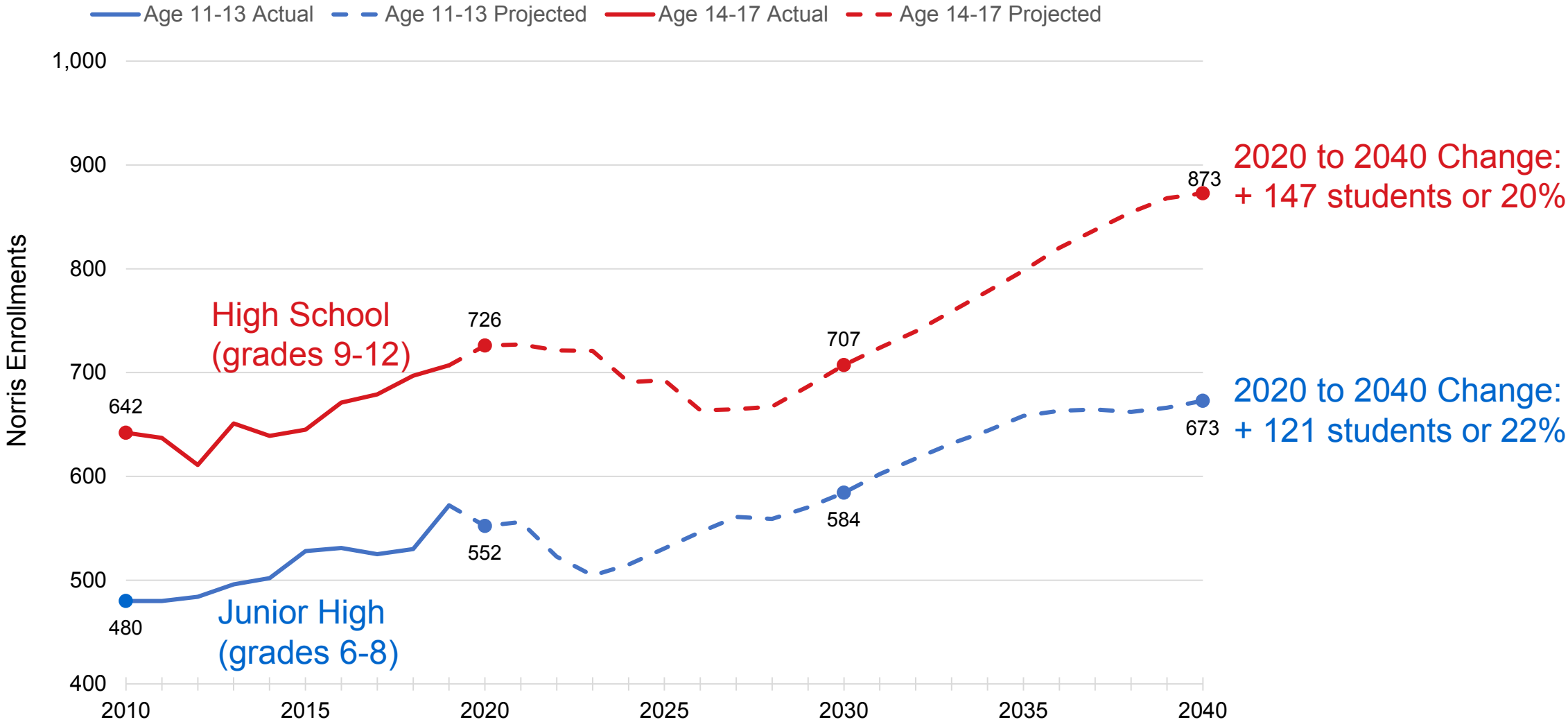


All Persons	2010	2011	2012
Under 1	97		
Age 1	113	97	
Age 2	126	113	97
Age 3	113	126	113
Age 4	139	113	126
Age 5	112	139	113
Age 6	154	112	139
Age 7	142	154	112
Age 8	160	142	154
Age 9	158	160	142
Age 10	166	158	160

So fewer kids at younger ages to replace those at older ages as time moves forward.

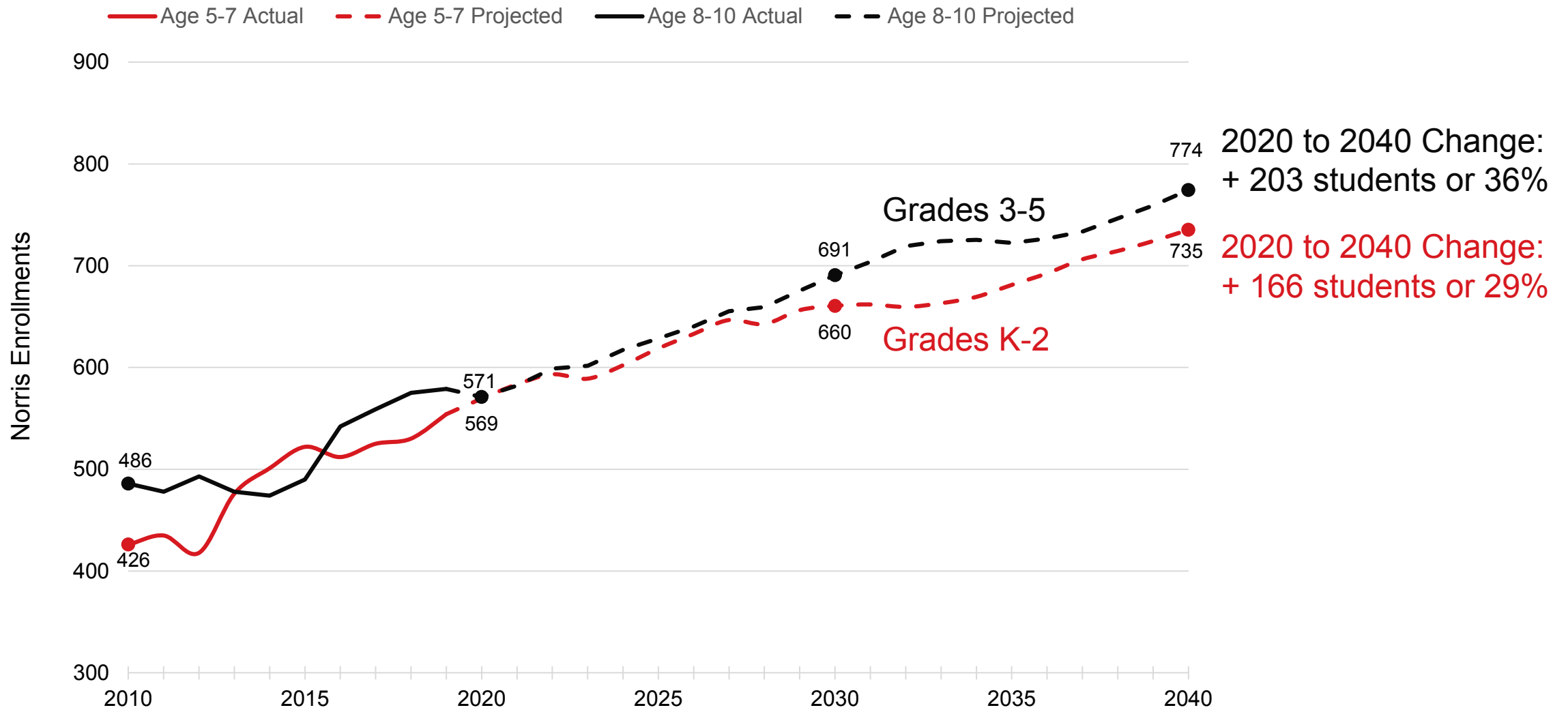
Junior high and high school enrollments are projected to dip a bit for part of the 2020s and then resume growth

Norris School District actual and projected enrollments by age range: 2010 to 2040



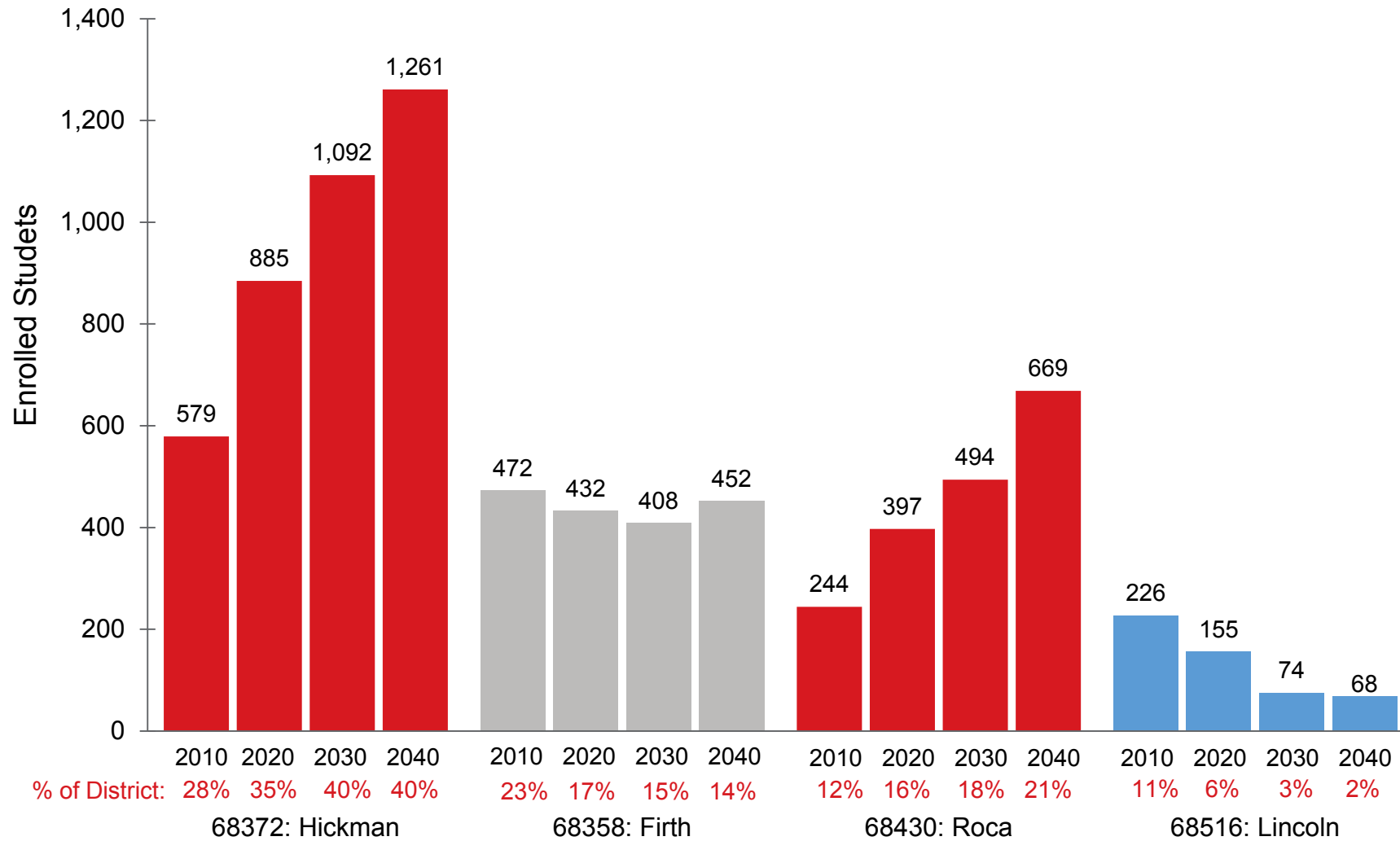
Elementary enrollments generally trend upward for each age range representing grades K-2 and grades 3-5

Norris School District actual and projected enrollments by age range: 2010 to 2040



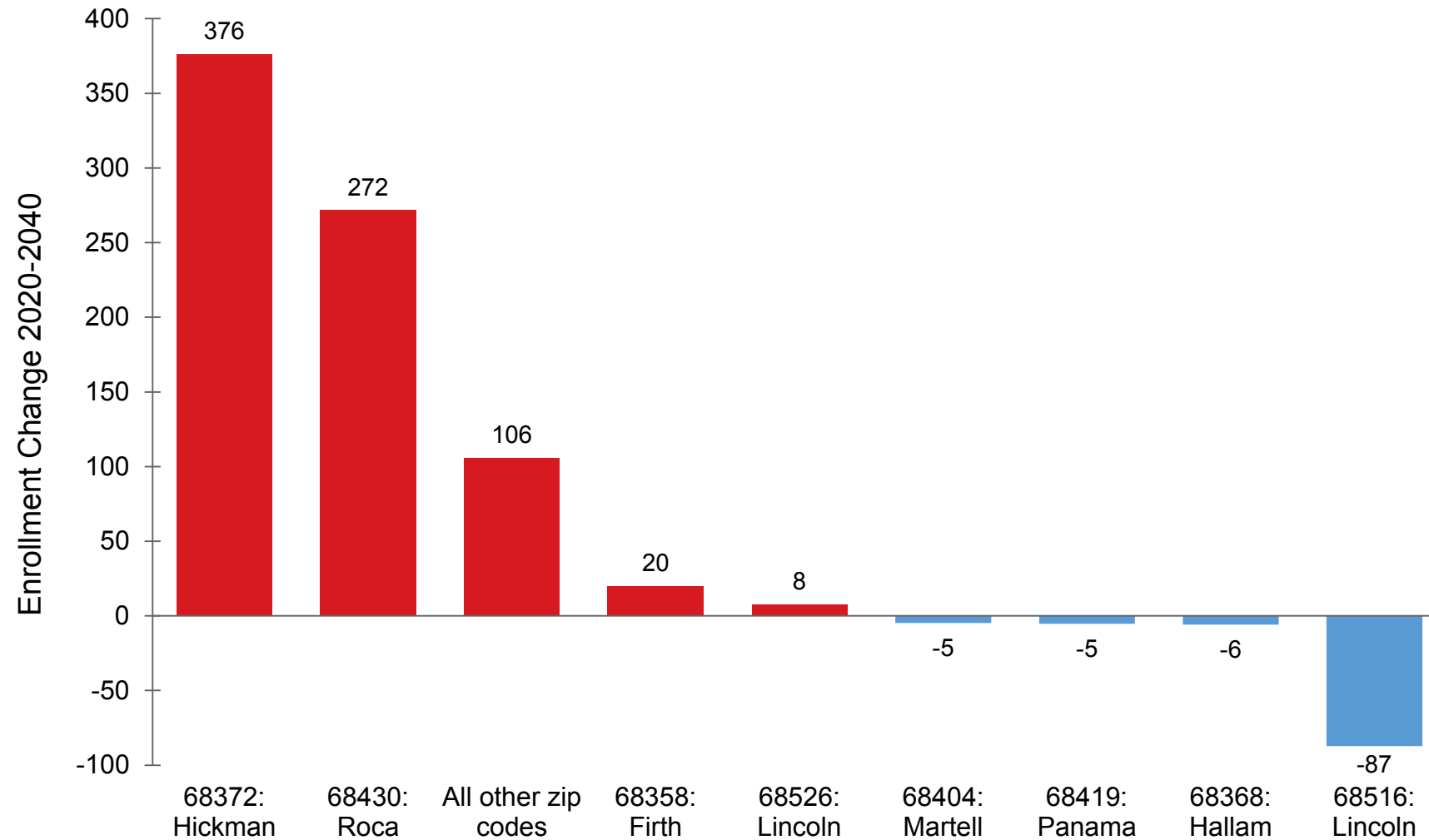
Enrollments from the Hickman and Roca areas are expected to increase in their number and share of all Norris students

Norris School District actual and projected enrollments for select ZIP codes: 2010 to 2040



Enrollments are expected to increase the most in fast-growing ZIP codes close to the Norris campus

Norris School District projected enrollment change by ZIP code: 2020 to 2040



Lincoln/LPS Future Development Priority Zones with Relation to New Schools and Beltways



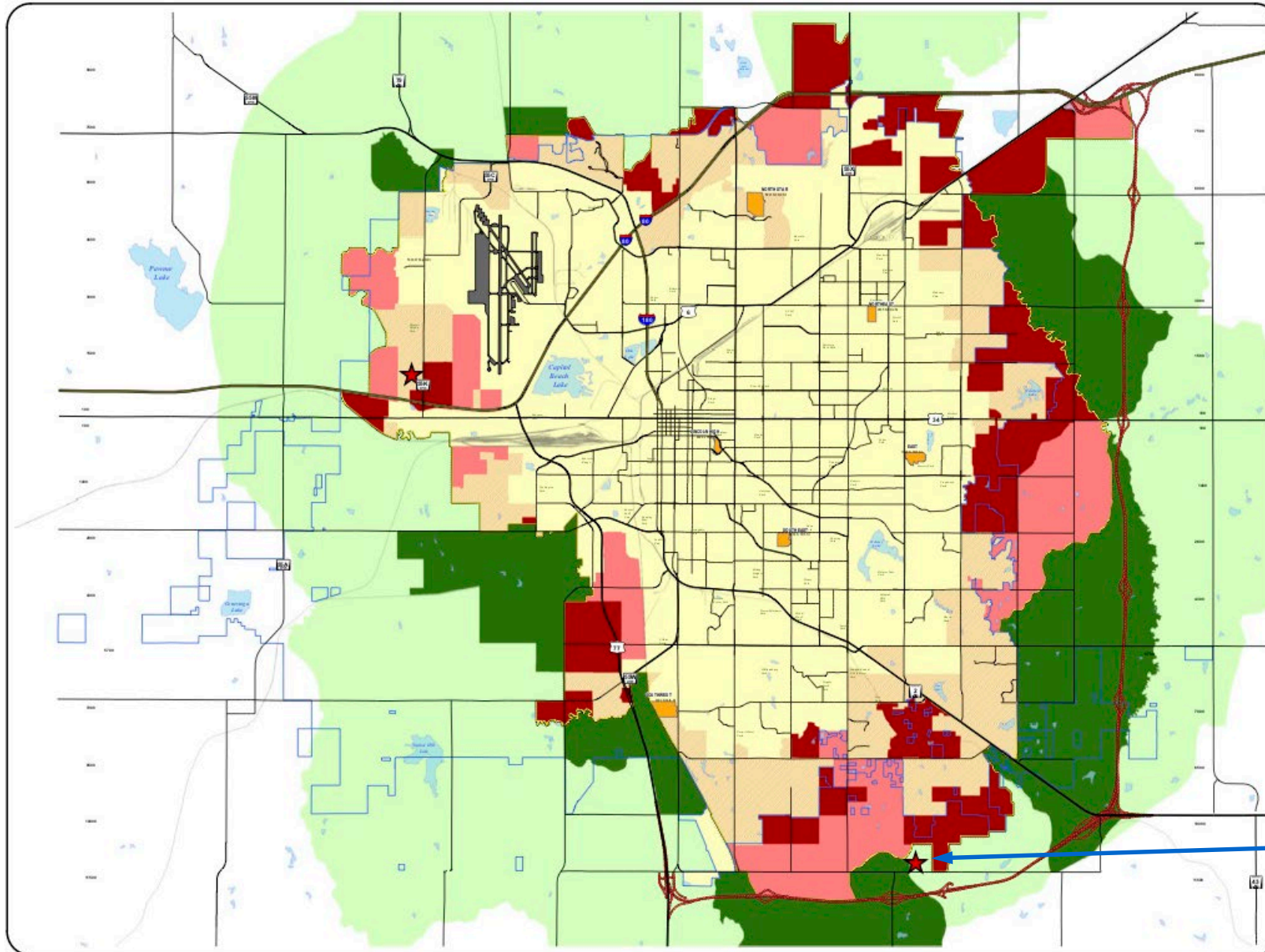
Proposed HS Site



Proposed Beltway

Urban Growth Tiers

- Existing City
- Tier I Priority A
- Tier I Priority B (2025)
- Tier I Priority C (2040)
- Tier II (2060)
- Tier III (Beyond 2060)



Site Location Map

07/16/15
Scale: NONE



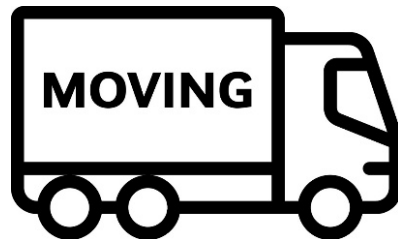
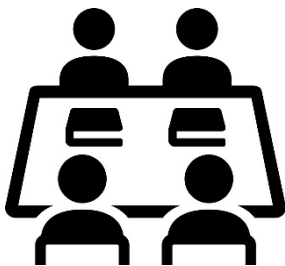
70th and Saltillo school

- Saltillo is southern boundary of 68516 and northern boundary of 68430

Source: Lincoln Public Schools 2020 Bond Issue
Information: <https://home.lps.org/2020bond/lincoln-public-schools-to-purchase-two-high-school-sites/>

Conclusions

1. The Norris School District should continue seeing enrollments increase
 - Models suggest gains will be greater in the 2030s and among elementary-age children
2. Growth is driven by the immigration of families in their early working careers and their children
3. Migration patterns along with average fertility levels have led the area to having relatively more older children
 - This impacts population flows of specific ages/grades as younger groups do not always fully replace older groups



Conclusions (continued)

4. Population growth should be led by areas close to the current campus
 - Hickman should remain a growth leader
 - 68430 (Roca) should see increased development as Lincoln pushes southward and the bypass is completed
 - The construction of new schools and boundary changes of Lincoln/LPS are wildcards impacting enrollment
5. Situations can change – how will COVID or other factors affect future migration, remote work, births, etc.



Comments, Q&A

UNIVERSITY OF
Nebraska
Omaha



cpar.unomaha.edu