

Potential High School Boundaries—Round 4

The following is a summary of information related to each map scenario. The information provided includes:

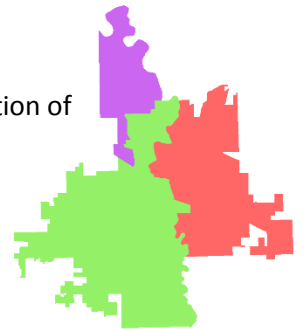
- The map version, where the number represents which “round” of scenarios the map was presented in and the letter represents the various maps in each round. Maps with the same letter in different rounds are based on similar criteria, but will only be presented together if they are identical.
- A description of the parameters used to create the map.
- Statistics regarding the high school students currently living in each area.
- Statistics regarding the junior high school students currently living in each area.
- Statistics regarding the elementary school students currently living in each area.

Following the listings of all of the scenarios are charts that summarize the information in a way to facilitate cross-scenario comparison. All data is based on geocoding of a 10/1/14 snapshot of student data.

Note that an additional column, labeled “4-Grade Equivalent,” has been added to each Junior High and Elementary table. This value adjusts the value in “Total Students” by a factor of 2 or $\frac{4}{7}$, respectively, in order to represent the associated student counts in a four-year high school.

Map 4B

This map was based off of map 2B. It was modified to take into account “natural” geographic boundaries—roads, rivers, railroads, parcels, etc.—while also attempting to (1) balance distribution of low SES, special needs, and ELL learners, and (2) avoid boundaries within $\frac{1}{2}$ mile of current and future elementary schools, where feasible.



High School Students

School	Total Students	% Low SES Learners	% Special Needs Learners	% ELL Learners
City	1,411	34%	13%	4%
Liberty	899	27%	9%	3%
West	1,339	26%	9%	6%

Junior High School Students

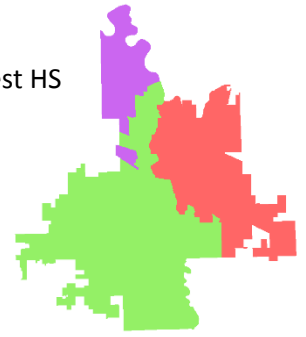
School	Total Students	% Low SES Learners	% Special Needs Learners	% ELL Learners	4-Grade Equivalent
South East	708	39%	14%	5%	1,416
North Central	504	32%	12%	3%	1,008
Northwest	675	30%	8%	7%	1,350

Elementary School Students

Area	Total Students	% Low SES Learners	% Special Needs Learners	% ELL Learners	4-Grade Equivalent
Eastern	2,513	39%	8%	12%	1,436
Northern	2,155	28%	7%	5%	1,231
Western	2,593	37%	5%	14%	1,482

Map 4F

This map is identical to 3F except for the assignment of Van Allen ES to Liberty HS instead of West HS and the assignment of Coralville Central ES to West HS instead of Liberty HS.



High School Students

School	Total Students	% Low SES Learners	% Special Needs Learners	% ELL Learners
City	1,387	31%	13%	4%
Liberty	792	29%	10%	3%
West	1,470	28%	10%	5%

Junior High School Students

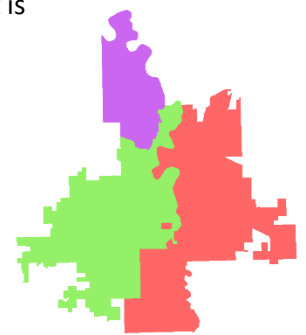
School	Total Students	% Low SES Learners	% Special Needs Learners	% ELL Learners	4-Grade Equivalent
South East	702	37%	13%	6%	1,404
North Central	453	35%	12%	2%	906
Northwest	732	29%	9%	7%	1,464

Elementary School Students

Area	Total Students	% Low SES Learners	% Special Needs Learners	% ELL Learners	4-Grade Equivalent
Eastern	2,519	37%	8%	13%	1,439
Northern	2,021	28%	7%	4%	1,155
Western	2,721	38%	6%	13%	1,555

Current Junior High Boundaries

This map represents the current junior high boundaries applied to students at all grade levels. It is provided for purposes of comparison with the other maps in this round.



High School Students

School	Total Students	% Low SES Learners	% Special Needs Learners	% ELL Learners
City	1,558	38%	14%	6%
Liberty	838	12%	6%	0%
West	1,253	29%	10%	5%

Junior High School Students

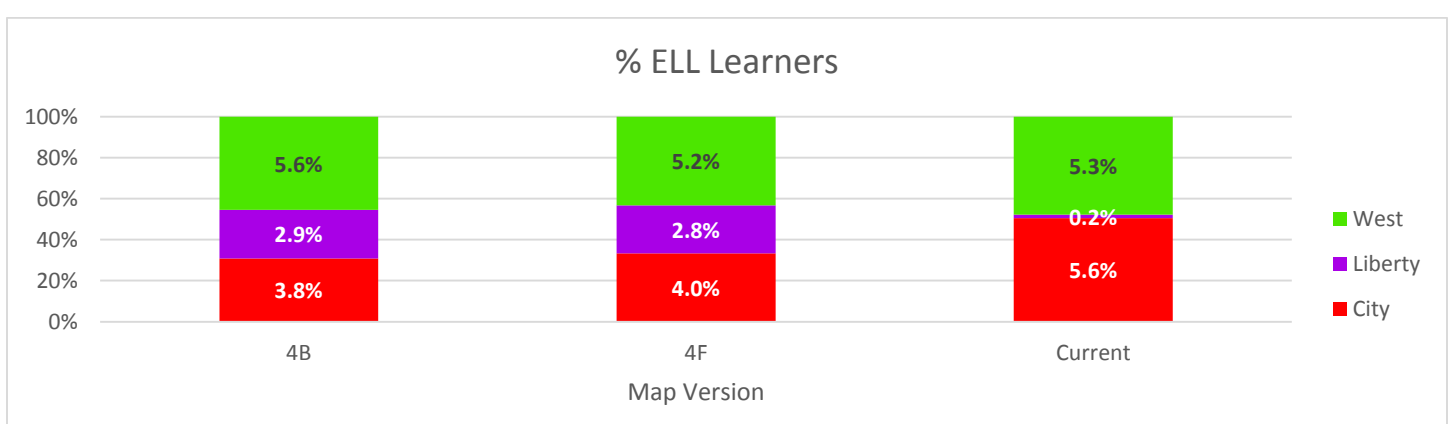
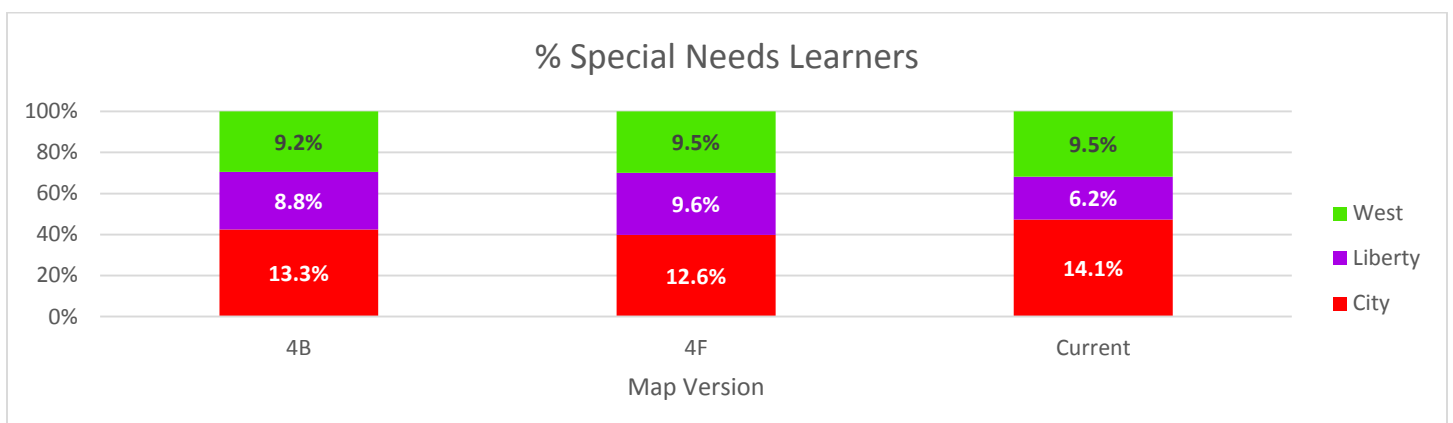
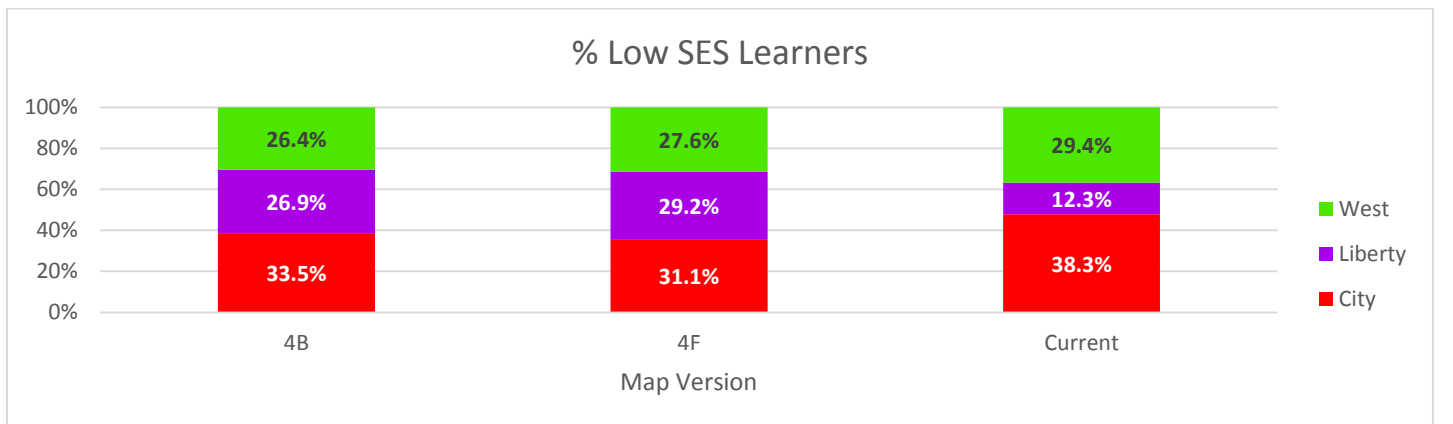
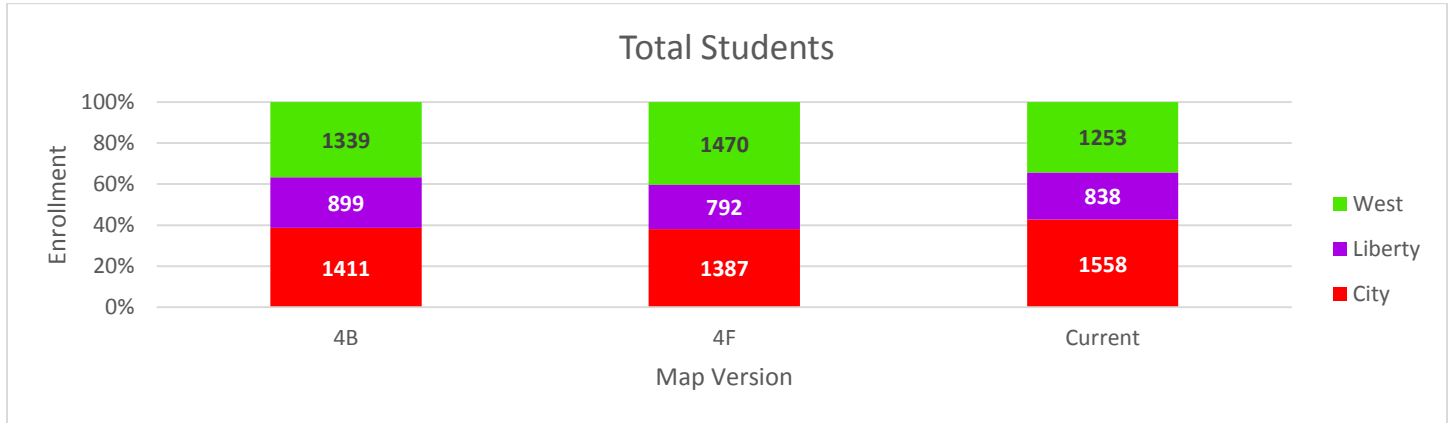
School	Total Students	% Low SES Learners	% Special Needs Learners	% ELL Learners	4-Grade Equivalent
South East	760	43%	14%	7%	1,520
North Central	474	19%	8%	0%	948
Northwest	653	33%	10%	7%	1,306

Elementary School Students

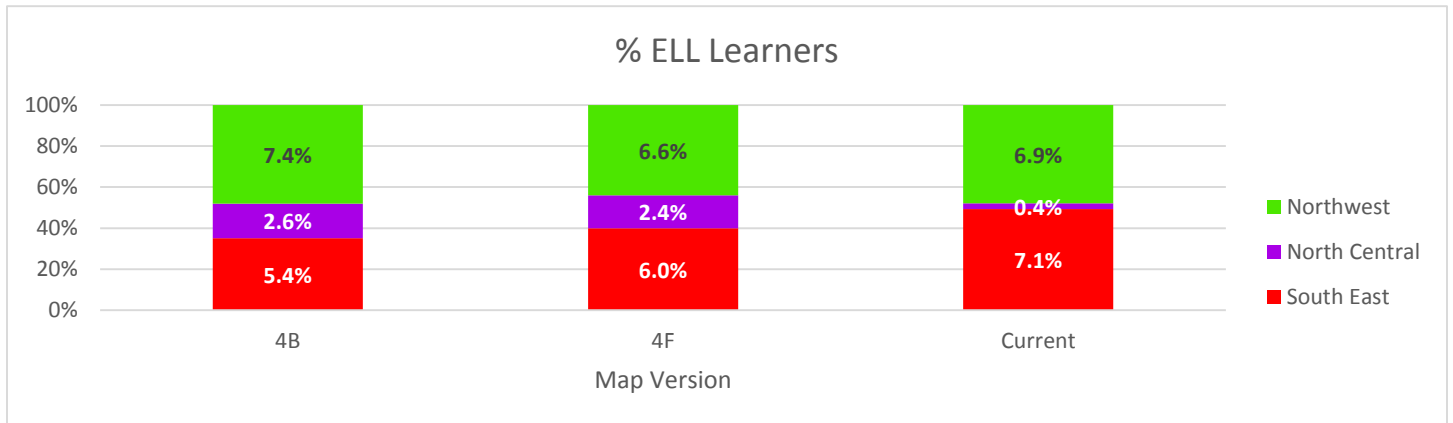
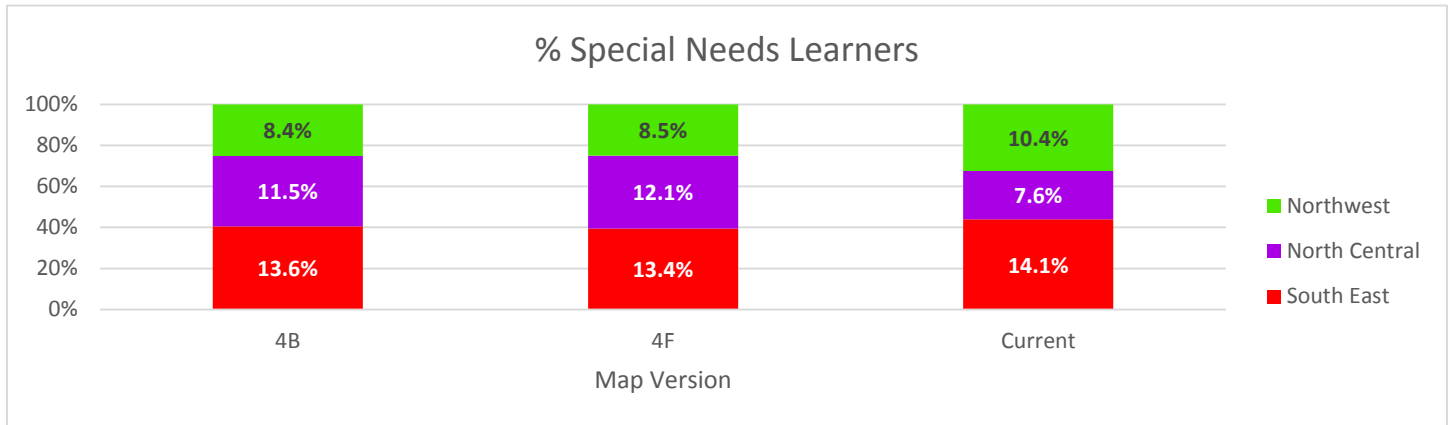
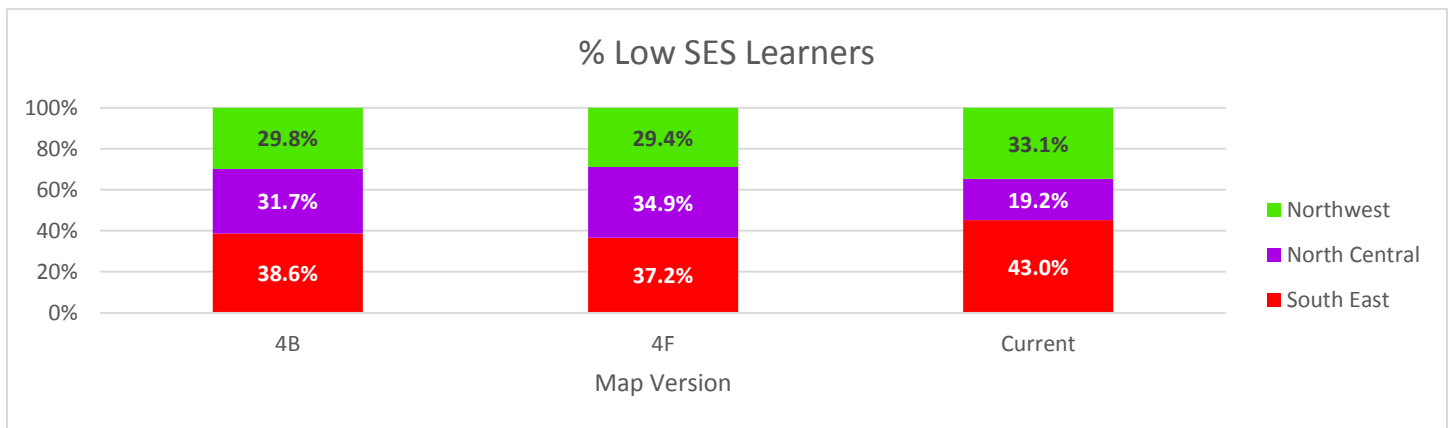
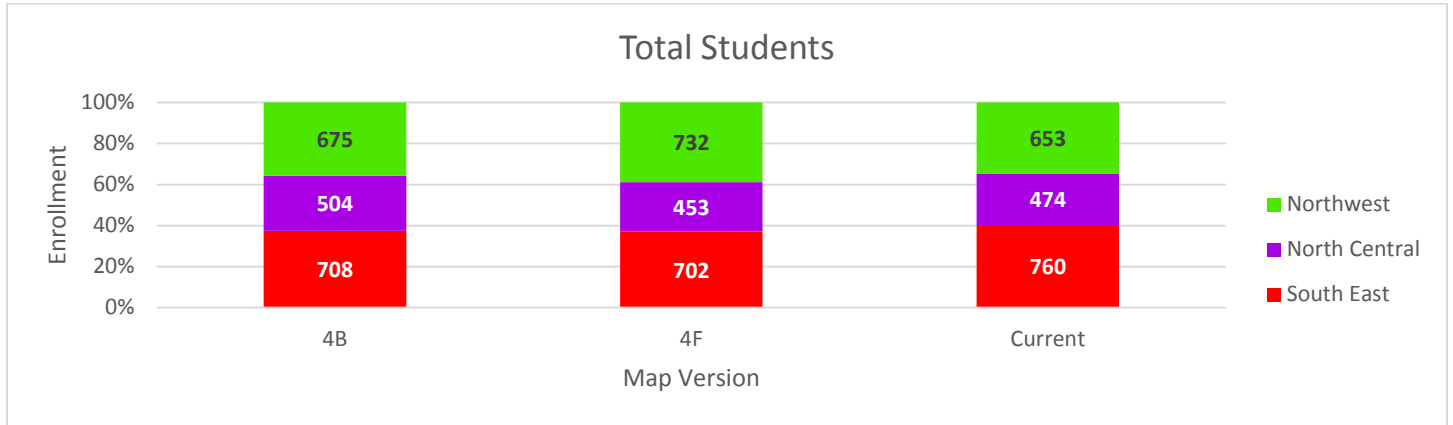
Area	Total Students	% Low SES Learners	% Special Needs Learners	% ELL Learners	4-Grade Equivalent
Eastern	2,834	46%	9%	15%	1,619
Northern	2,059	15%	6%	2%	1,177
Western	2,369	39%	6%	13%	1,354

Map Comparisons

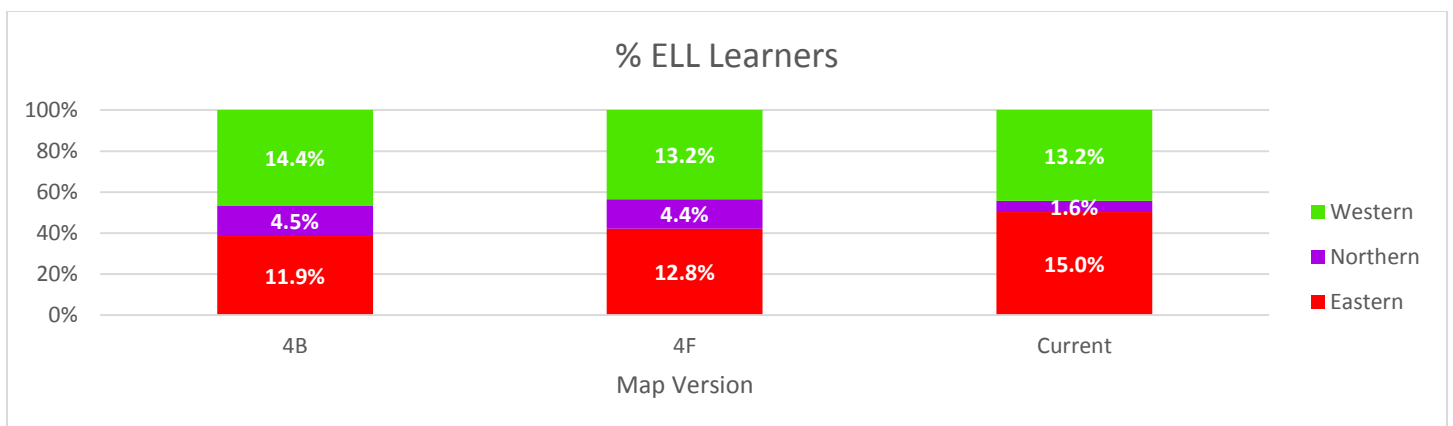
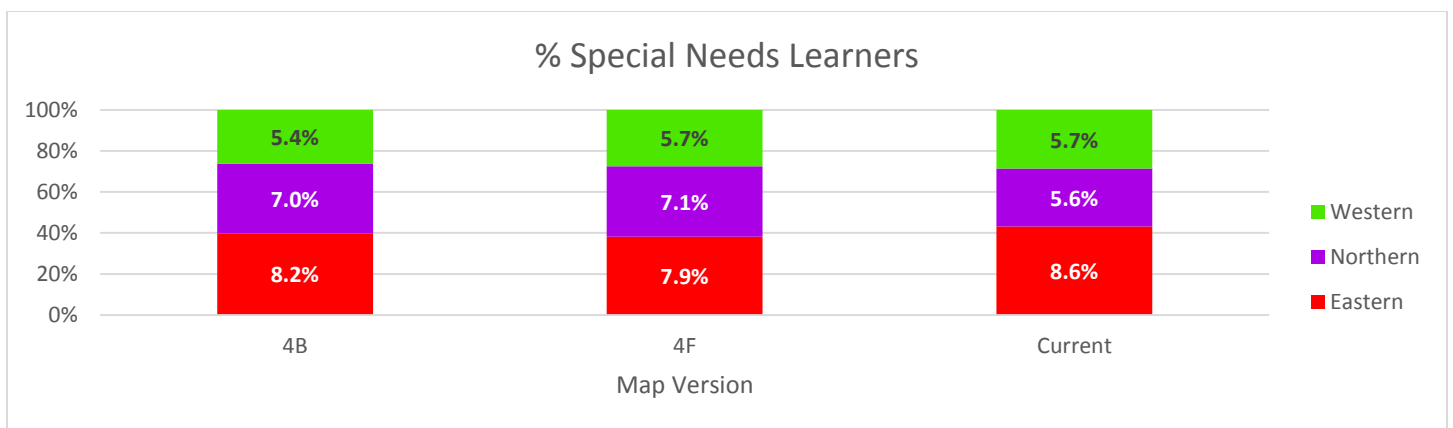
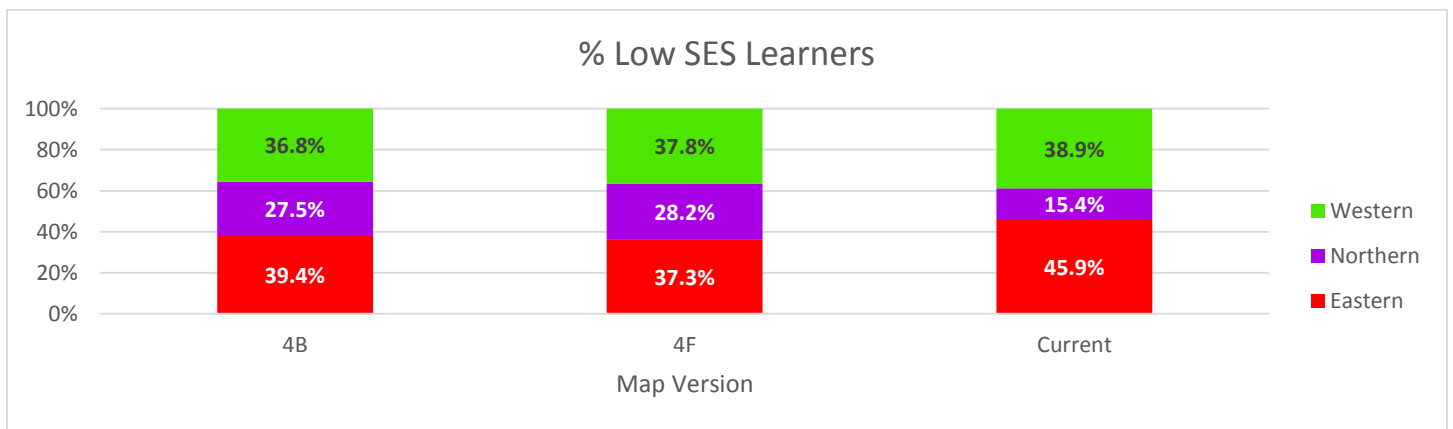
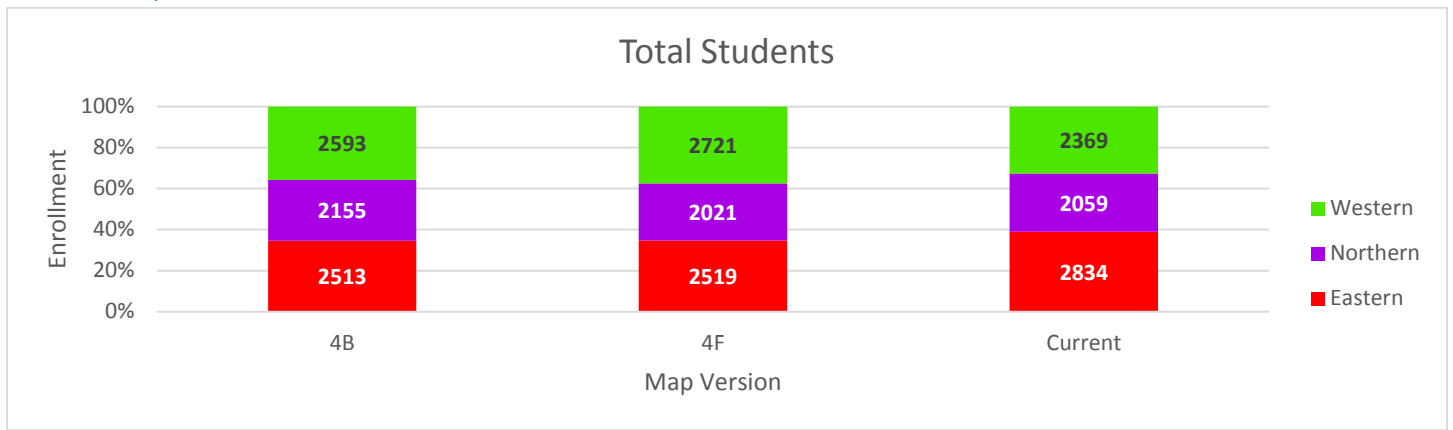
High School Students



Junior High School Students



Elementary School Students



Appendix

Variability

As has been mentioned numerous times over the years for similar projects, it is important to remember that the values in this document provide what Dr. Dude refers to as an “illusion of accuracy.” When interpreting and making decisions based on these values, it is important to keep in mind several factors, such as:

- family mobility within the district,
- family mobility into and out of the district,
- district transfer policies allowing students to attend a school other than the one to which they are geographically assigned*,
- federal transfer policies (e.g., No Child Left Behind) allowing students to attend a school other than the one to which they are geographically assigned*,
- state open enrollment policies allowing students to attend the district of their choice*,
- movement and placement of targeted programs (e.g., pre-school, special education, ELL, etc.)*,
- enrollment projections which estimate another 1,136 students by 2017-18 (250 more in grades 9-12) and 2,753 more students by 2022-23 (840 more in grades 9-12), and,
- students progressing through grade levels between the present and the future.

The values in this document are based on a snapshot of where students lived on 10/1/2014 (i.e., the official “count day” for the 2014-15 school year). The students represented in that snapshot will be in grades 3 through 12 (and beyond) when Liberty HS opens in 2017-18 and in grades 8 through 12 (and beyond) when the 500 student addition to Liberty HS is completed in 2022-23. Specifics for each table are as follows.**

- In the high school tables, the 9th grade students will be seniors when Liberty HS opens, and the 10th-12th grade students will be out of high school.
- In the junior high school tables, the 7th and 8th grade students will be 10th and 11th grade students when Liberty HS opens.
- In the elementary school tables, the kindergarten through 6th grade students will be in grades 3 through 9 when Liberty HS opens and the kindergarten through 4th grade students will be in grades 8 through 12 when the 500 student addition opens.

School Year	Grade												
2014 - 2015	K	1	2	3	4	5	6	7	8	9	10	11	12
2015 - 2016	1	2	3	4	5	6	7	8	9	10	11	12	
2016 - 2017	2	3	4	5	6	7	8	9	10	11	12		
2017 - 2018	3	4	5	6	7	8	9	10	11	12			
2018 - 2019	4	5	6	7	8	9	10	11	12				
2019 - 2020	5	6	7	8	9	10	11	12					
2020 - 2021	6	7	8	9	10	11	12						
2021 - 2022	7	8	9	10	11	12							
2022 - 2023	8	9	10	11	12								
2023 - 2024	9	10	11	12									
2024 - 2025	10	11	12										
2025 - 2026	11	12											
2026 - 2027	12												

Liberty HS opens with 1,000 student capacity
 500 student addition to Liberty HS opens

*See tables 12 and 13 in the 2014-15 Enrollment, Demographics, and Class Size Report for Live-Enroll tables.

**A small number of students do not follow a traditional grade-per-year trajectory and some students attend beyond 12th grade.

Growth

Different regions of the district are projected to grow at different paces. Since the above values are based on where students live, growth was analyzed based on the DeJONG-RICHTER projections by enrollment catchment area, which is also based on where students live.

By looking at various configurations with each catchment area assigned to an Eastern, Northern, or Western region, one can develop growth estimates for each region. While some catchment areas have remained “intact” in all scenarios reviewed by the Board, others may be “split” or may be assigned to one region in one scenario and to another region in another scenario. For those reasons, the following growth estimates provide ranges of growth by region.

Area	2014-15 to 2017-18 Growth	2014-15 to 2022-23 Growth
Eastern	4.9%-6.5%	9.0%-14.8%
Northern	13.8%-16.6%	30.0%-36.4%
Western	5.8%-7.9%	14.6%-21.6%

To estimate 2017-18 and 2022-23 high school enrollments, one can apply these growth estimate ranges to the junior high and elementary tables, respectively, as follows.

Map 4B

School	Estimated Students 2017-18 [†]	Estimated Students 2022-23 [‡]
City	1,485-1,508	1,565-1,649
Liberty	1,147-1,175	1,601-1,680
West	1,428-1,457	1,698-1,802

Map 4F

School	Estimated Students 2017-18 [†]	Estimated Students 2022-23 [‡]
City	1,473-1,495	1,569-1,652
Liberty	1,031-1,056	1,501-1,575
West	1,549-1,580	1,782-1,891

Current

School	Estimated Students 2017-18 [†]	Estimated Students 2022-23 [‡]
City	1,594-1,619	1,765-1,859
Liberty	1,079-1,105	1,530-1,605
West	1,382-1,409	1,551-1,646

[†]Using values from corresponding junior high table and 2014-15 to 2017-18 growth estimate ranges.

[‡]Using values from corresponding elementary table and 2014-15 to 2022-23 growth estimate ranges.

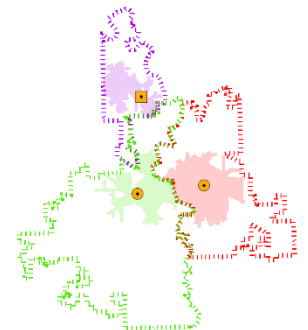
Transportation

Each scenario will require different areas to be transported. The following analysis was completed in order to provide a rough estimate of this cost, for purposes of comparing scenarios. It is important to remember that these are rough estimates. A more detailed estimate would require a complete routing of students, which costs about \$7,000 and takes two weeks to complete.

For each high school location, a three-mile “radius” was created. This radius matches the legal distance beyond which high school students must be transported and represents distance along roads, not “as the crow flies.” The count of elementary students living within each radius was then calculated and adjusted from seven grades to four grades. The difference between that count and the 4-Grade Equivalent count in the Elementary School tables, above, represent an estimate of the number of students eligible for transportation. This number could potentially be higher in reality, since there is no discretionary busing accounted for. Because not all students eligible to ride a bus actually sign up to ride, this count was multiplied by a factor of 87%--the approximate percent of high school students eligible for busing who actually sign up. Using the 2013-14 average cost to transport one student (the most recent value available), these counts were multiplied by \$534.92 and then rounded to the nearest \$10,000.

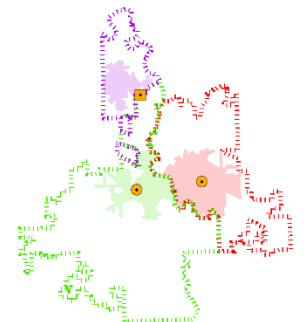
Map 4B

Area	Students Outside 3-Mile Walk Zone	Approximate Number of Students Who Will Request Busing	Approximate Cost to Provide Busing
Eastern	196	171	\$90,000
Northern	563	490	\$260,000
Western	700	609	\$330,000
			\$680,000



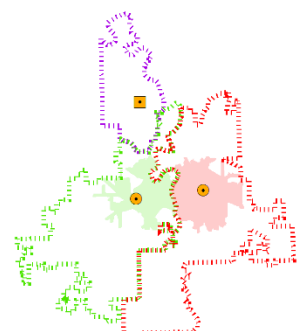
Map 4F

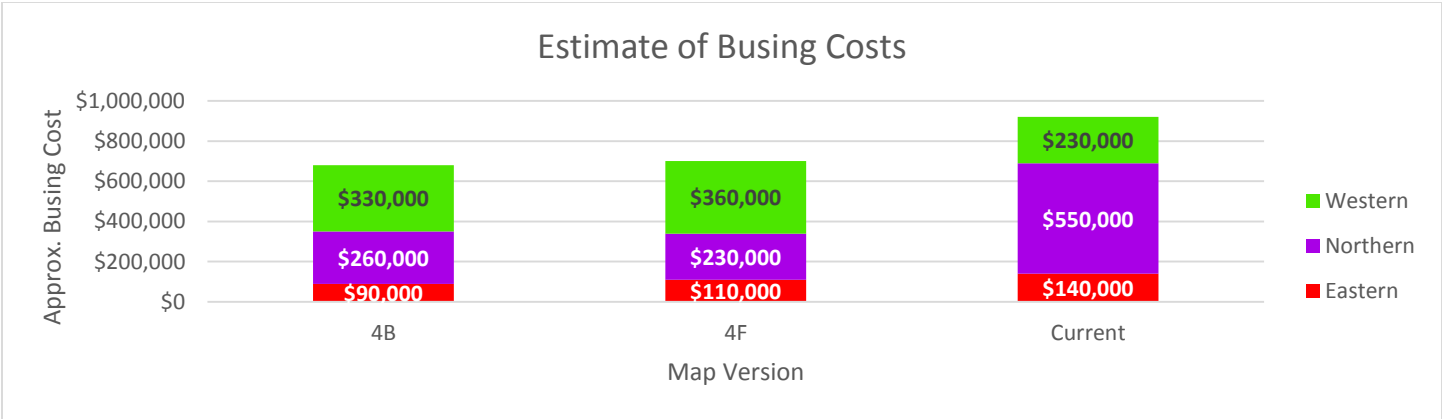
Area	Students Outside 3-Mile Walk Zone	Approximate Number of Students Who Will Request Busing	Approximate Cost to Provide Busing
Eastern	242	211	\$110,000
Northern	490	426	\$230,000
Western	774	673	\$360,000
			\$700,000



Current*

Area	Students Outside 3-Mile Walk Zone	Approximate Number of Students Who Will Request Busing	Approximate Cost to Provide Busing
Eastern	292	254	\$140,000
Northern	1,177	1,024	\$550,000
Western	493	429	\$230,000
			\$920,000





*In order to provide a comparison of new maps to current--two high school--busing cost estimates, a walk area was not created around Liberty HS for this estimate.