

CSI Market Analysis

EAST DENVER / AURORA



COLORADO CHARTER SCHOOL INSTITUTE

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Report Context

To calculate this report, a list of East Denver / Aurora schools was gathered using zip codes within a 3-mile radius of CSI schools in our target area. The zip codes we used include Aurora (80010, 80012, 80013, 80014, 80019, 80220, & 80224) and portions of East Denver (80011, 80017, 80230, 80238, 80239, & 80249). Enrollment data was pulled from the Colorado Department of Education, birth rates were pulled from the Colorado Environmental Public Health Tracking Program, and population data was compiled from the American Community Survey and U.S. Census Bureau website.

General Information about East Denver / Aurora

The East Denver / Aurora area contained in this report includes schools located in Adams-Arapahoe 28J (APS), Cherry Creek, and Denver Public Schools (DPS). Each of these school districts comprises of a large area of the state, so this report will focus solely on schools in the following zip codes: 80010, 80012, 80013, 80014, 80019, 80220, 80224, 80011, 80017, 80230, 80238, 80239, & 80249. Within this area, there are 52 schools*, including five schools authorized by the Colorado Charter School Institute (CSI), thirteen charter schools (nine authorized by DPS, four authorized by APS), and three Alternative Education Campuses (AECs).

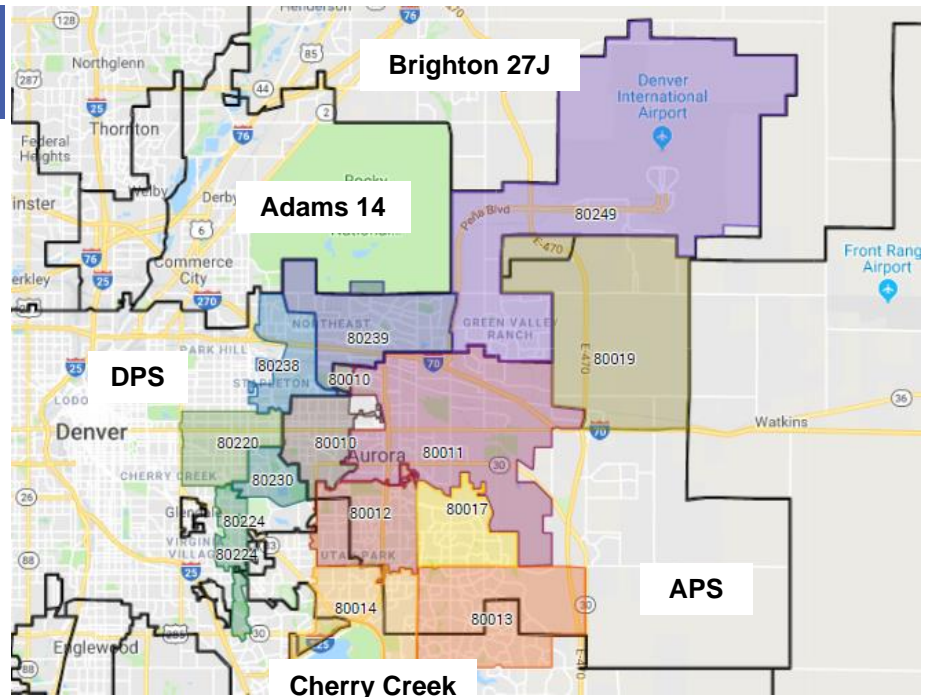
Appendix A has the full list of school choices.

Map of School Districts and Zip Codes

East Denver / Aurora (as defined in this report) covers nearly 165 square miles east of downtown Denver. This includes Montclair, Montbello, Northfield, Green Valley Ranch, and downtown Aurora neighborhoods.

In the map to the right, black outlines highlight the different school districts while colored blocks represent zip codes.

Population characteristics and enrollment information is on the coming pages.



To look at the above map in more detail, follow this link: <https://tinyurl.com/EastDenverAuroraMap>.

*In Colorado, the number of schools is calculated according to the number of school codes associated with each contract. School codes are assigned, upon requests of the authorizer, as a school begins operating.

Population Characteristics

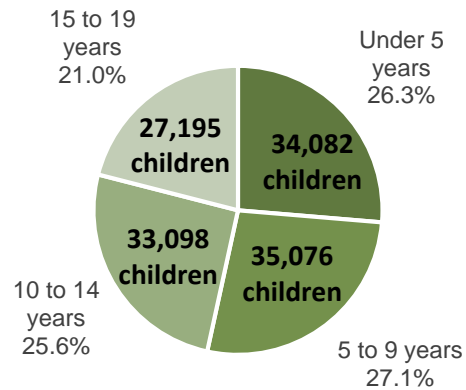
School Aged Children

The below information captures the number and percent of school aged children in East Denver / Aurora. The most recent data available is from the American Community Survey (ACS), which is collected and released by the U.S. Census Bureau. This dataset was released in 2017 and includes summarized responses from 2011, 2012, 2013, 2014, 2015, and 2016 for the following zip codes: 80010, 80012, 80013, 80014, 80019, 80220, 80224, 80011, 80017, 80230, 80238, 80239, & 80249. The last census data released for these zip codes is from 2010. See below for more information.

Population - East Denver/Aurora

School Aged Children	2010 Census	2017 ACS	Change
Under 5 years	35,524	34,082	-1,442
5 to 9 years	32,666	35,076	2,410
10 to 14 years	28,152	33,098	4,946
15 to 19 years	26,529	27,195	666
Total	122,871	129,451	6,580

Population (2017 ACS) - East Denver/Aurora

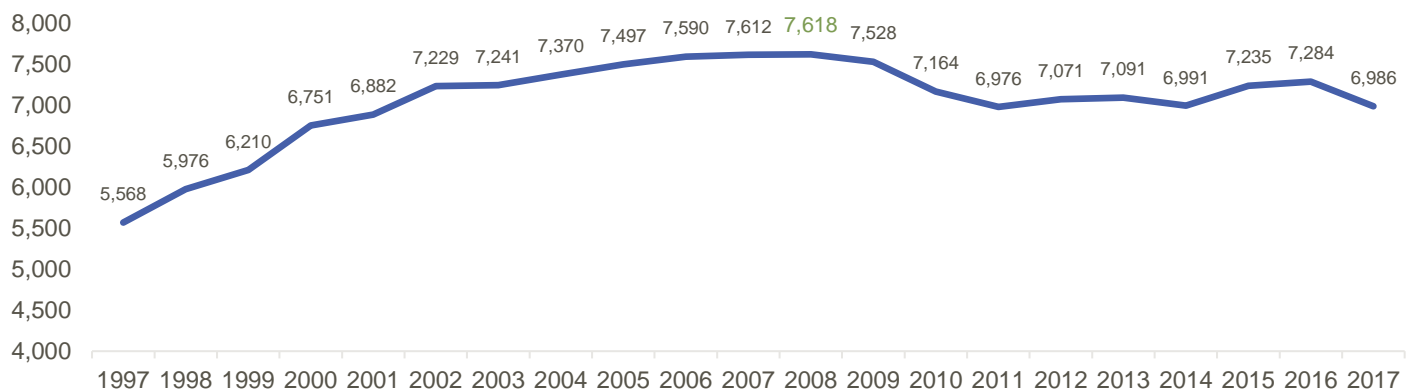


The overall population of school aged children in East Denver / Aurora has increased over the past 6 years by 6,580 children (a percent increase of 5.4%). The largest increase in population is the middle school age range (10 to 14 years old), from 28,152 in 2010 to 33,098 in 2017 (17.6%). As shown in the pie chart above, of the school aged children in those zip codes, the largest percentage of children by a slim margin (27.1%) are 5 to 9 years of age. 26.3% are under 5 years of age, 25.6% are 10 to 14 years of age, and 21% are 15 to 19 years of age.

Birth Trends

Live births are captured by the Colorado Environmental Public Health Tracking Program for each of the zip codes. When viewing this cumulative data over the past 20 years, the number of births rose steadily from 1997 until 2008, with a peak of 7,618 births. Since then, the number of babies born each year has decreased. The most recent birth data shows 6,986 births in 2017. This is the lowest number of births since 2011. Below is a chart of live birth data for this region.

Live Births in East Denver / Aurora Zip Codes



Enrollment

Total Student Enrollment over Time

The values below were found by compiling the number of students reporting in each year for schools in these zip codes: 80010, 80012, 80013, 80014, 80019, 80220, 80224, 80011, 80017, 80230, 80238, 80239, & 80249. The number of students attending non-CSI schools in those zip codes has decreased overall by 1% over the past five years (from 32,079 students in 2014-15 to 31,790 students in 2018-19). For schools authorized by CSI in East Denver / Aurora, student enrollment has increased 27.7% over the past five years. Much of this increase is accounted for by the addition of two schools, New Legacy Charter School in 2015-16 and Colorado Early College – Aurora in 2017-18, both serve high school grades. Additional enrollment information about schools authorized by CSI in East Denver / Aurora is on the coming pages.

DPS schools within the zip code cohort have seen the largest increases in student enrollment, with a 12% increase (from 9,032 students in 2014-15 to 10,098 students in 2018-19). APS schools in the cohort have seen an overall decrease over the past five years of 5% (from 19,945 students in 2014-15 to 18,978 students in 2018-19). Cherry Creek schools in the cohort have seen the largest decreases of 13% over the past five years (from 3,102 students in 2014-15 to 2,714 students in 2018-19). Total enrollment values can be seen in the table below.





East Denver/Aurora School Cohort Student Enrollment

School District Name	County Name	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	5-Year Percent Change
APS	Arapahoe	19,945	20,798	20,608	19,692	18,978	-4.8%
Cherry Creek	Arapahoe	3,102	2,959	2,870	2,843	2,714	-12.5%
Schools authorized by CSI in East Denver / Aurora	-	1,436	1,630	1,613	1,874	1,834	27.7%
DPS	Denver	9,032	9,419	9,615	9,887	10,098	11.8%

Enrollment by Grade Level over Time

Student enrollment for the East Denver / Aurora school cohort has decreased overall and at the PK-5 level.





East Denver/Aurora Student Enrollment by Grade Levels

Grade	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	Trend	5-Year Percent Change
PK-5	16,658	17,022	16,907	16,424	15,795		-5.2%
6-8	4,443	4,831	4,838	4,755	4,803		8.1%
9-12	10,978	11,323	11,348	11,243	11,192		1.9%
Total	32,079	33,176	33,093	32,422	31,790		-0.9%

The largest increase in student enrollment over the past five years is for 6th through 8th grades, with an 8% increase. However, over the past three years, change is flat, with a 1% decrease. The largest decrease is with Pre-Kindergarten through 5th, with a 5% decrease over the past five years and a 7% decrease over three years. High school grade levels have seen a 2% increase over the past five years, and a 1% decrease in the past three years.

For schools authorized by CSI in East Denver / Aurora, school enrollment has overall and at every grade level.

CSI East Denver/Aurora Schools Student Enrollment by Grade Levels

Grade	2014-2015	2015-2016*	2016-2017	2017-2018**	2018-2019	Trend	5-Year Percent Change
PK-5	774	814	820	831	871		12.5%
6-8	195	204	217	222	222		13.8%
9-12	467	612	576	821	741		58.7%
Total	1,436	1,630	1,613	1,874	1,834		27.7%

*New Legacy Charter School, an Alternative Education Campus, opened this year. **Colorado Early College - Aurora opened this year.

Student enrollment for elementary grade levels CSI schools in this cohort have increased by 13% over the past five years and a 6% increase in enrollment over the past three years. There are two CSI schools serving elementary school students, Montessori del Mundo in Aurora and High Point Academy in Aurora.

6th through 8th grade enrollment has also seen consistent increases in enrollment (from 195 students in 2014-15 to 222 in 2017-18, 13.8%). However, over the past three years, enrollment has been largely flat, with a 2% increase in enrollment. There is only one CSI school in this cohort serving middle school students, High Point Academy in Aurora.

The largest increase in student enrollment is for the high school grade levels with a 59% increase in student enrollment and a consistent increase in enrollment over the past three years. High school enrollment decreased slightly after the 2015-16 school year, and then increased again largely due to the addition of Colorado Early College – Aurora to the portfolio. The two other CSI schools in this cohort serving high school students are both Alternative Education Campuses, New America School – Lowry and New Legacy Charter School.

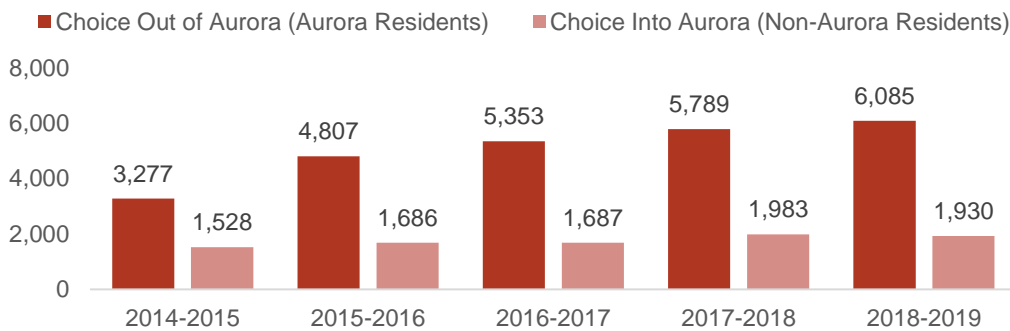
Appendix A shows 2018-19 enrollment values for every school.

Choice Into and Out of APS

APS Choice

This section of the report focuses on choice in Aurora Public Schools overall instead of by school cohort, due to the way this data is reported. The number of students who live in Aurora and choice out of APS has increased from 3,277 students in 2014-15 to 6,085 in 2018-19, a choice out increase of 86% (these values include those students choosing into schools authorized by CSI in Aurora). The number of students who live outside of Aurora and choice into APS has increased from 1,528 students in 2014-15 to 1,930 students in 2018-19, a choice in increase of 26%. The below chart lists all Aurora residents choosing out of APS (dark red) and non-Aurora residents choosing into APS (light red) for the past five years.

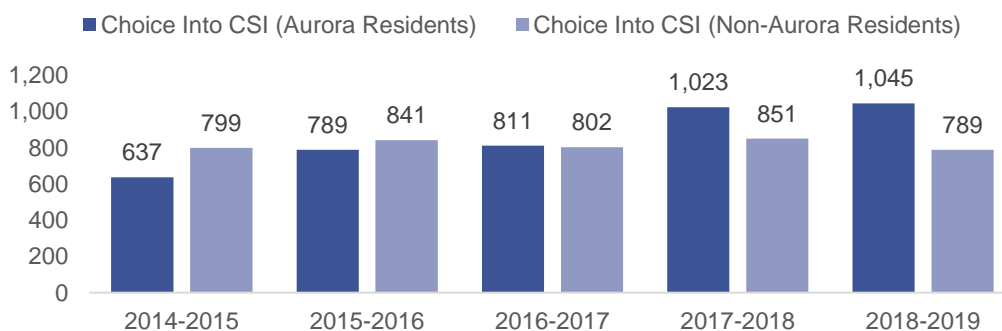
Aurora Choice In and Choice Out by Number of PK-12 Students



Choice Into Schools Authorized by CSI in East Denver / Aurora

The number of students who live in Aurora and choice into schools authorized by CSI in East Denver / Aurora (ED/A) has increased from 637 students in 2014-15 to 1,045 students in 2018-19, a choice in increase of 64%. The number of students who live outside of Aurora and choice into schools authorized by CSI in Aurora has remained flat, with a decrease of 799 students in 2014-15 to 789 students in 2018-19, a choice in decrease of 1%. The below chart lists all students choosing into schools authorized by CSI in East Denver / Aurora by Aurora residents (dark blue) and non-Aurora residents (light blue) for the past five years.

Choosing Into CSI ED/A Schools by Number of PK-12 Students



WHAT DOES "CHOICE" MEAN IN THIS CONTEXT?

These values show Aurora and non-Aurora residents who attend *any* school, including charters or non-charters. Below is an explanation of each group on the graphs:

Choice Out of APS: Aurora residents that choose to attend *any* non-APS school, including schools authorized by CSI.

Choice Into APS: Non-Aurora residents that choose to attend *any* APS school over a school in their local district.

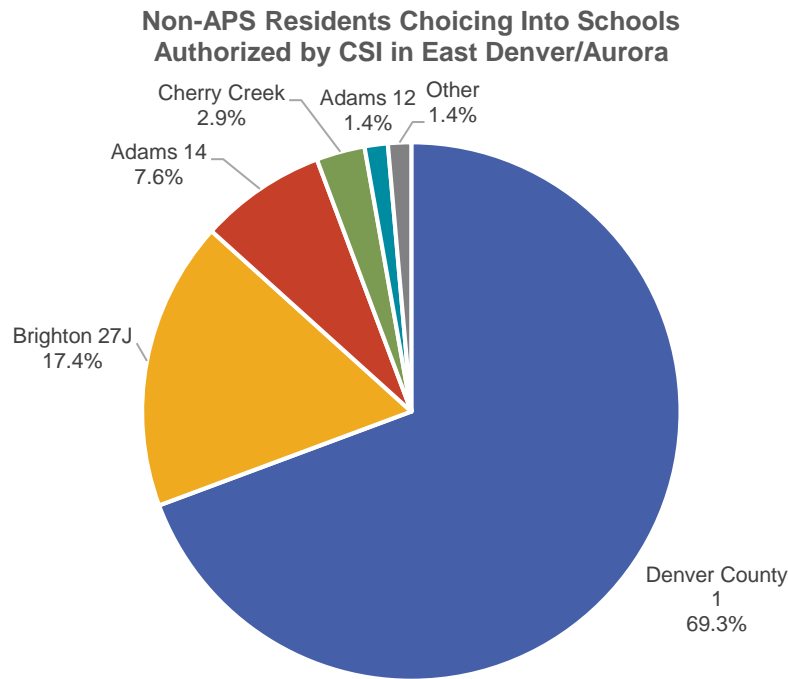
Choice Into CSI: Aurora and non-Aurora residents that choose to attend schools authorized by CSI over their local district schools.

The five schools authorized by CSI in East Denver / Aurora are:

- Colorado Early Colleges – Aurora (opened in 2017-18),
- High Point Academy (opened in 2006-07)
- Montessori del Mundo (opened in 2014-15)
- New America School – Lowry (joined CSI in 2014-15)
- New Legacy Charter School (opened in 2015-16)

Non-Aurora Residents Choicing Into Schools Authorized by CSI in Aurora

The non-Aurora residents that are choicing into schools authorized by CSI in Aurora (light blue bar on the graph on the previous page) come from the following school districts in 2018-19:



Pie Chart of Non-Aurora Residents Choicing Into CSI (N=789)

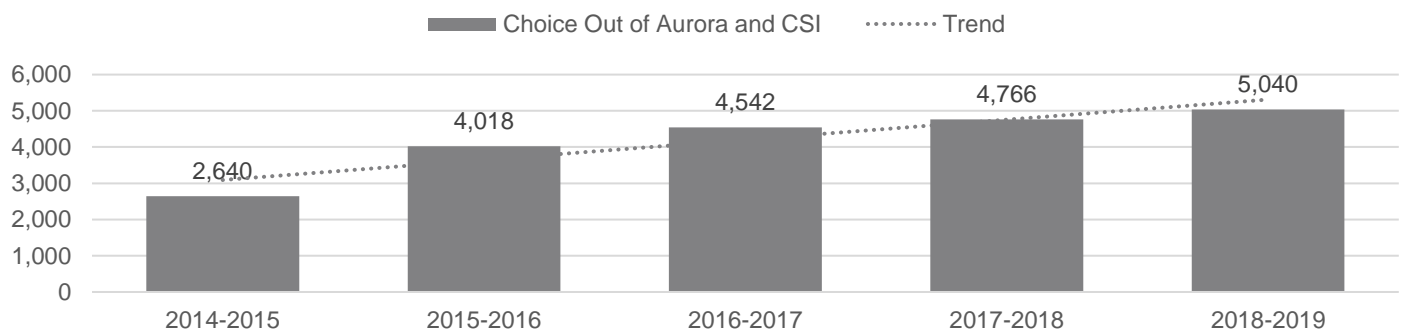
The largest percent of non-Aurora residents attending schools authorized by CSI in Aurora come from DPS (69%). Brighton 27J, the district where High Point Academy is located to the northeast of Denver, comes next with 17%. This is followed by Adams 14 (8%), Cherry Creek (3%), and Adams 12 (1.4%).

This pie chart represents a total of 789 students. However, out of the entire enrollment of CSI schools in the East Denver / Aurora area, 57% of the 1,834 students in 2018-19 live within Aurora Public Schools boundaries.

Choice Out of APS and CSI

The previous page showed how a growing number of Aurora residents are choicing out of APS and, at the same time, a growing number of Aurora residents are choicing into schools authorized by CSI in Aurora. The chart below shows the population of Aurora residents that choose to attend neither APS schools nor schools authorized by CSI in Aurora.

Choice Out of APS and Schools Authorized by CSI in ED/A by Number of PK-12 Students



The values above show a 93% increase over the past five years of Aurora residents choicing schools outside of the district in which they live, an increase from 2,583 students in 2014-15 to 4,982 students in 2018-19.

Choice Districts

Below are the top five districts for each of the past five years that Aurora residents are choosing to attend, instead of attending an Aurora school or schools authorized by CSI in East Denver / Aurora. This list is ordered from the greatest to least. Values in the parentheses are total n counts, by number of PK-12 students.

Top Five Districts Aurora Residents are Choosing to Attend, (n)=Total PK-12 students

Rank	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
1	DPS (1,167)	DPS (1,321)	DPS (1,408)	DPS (1,469)	DPS (1,575)
2	DougCo (933)	Ch. Creek (825)	DougCo (1,050)	DougCo (1,118)	DougCo (1,288)
3	Falcon 49 (129)	DougCo (819)	Ch. Creek (920)	Ch. Creek (1,005)	Ch. Creek (954)
4	Byers 32J (96)	Byers 32J (477)	Byers 32J (540)	Byers 32J (490)	Byers 32J (523)
5	Mapleton (49)	Falcon 49 (132)	Falcon 49 (136)	Dig. Boces (136)	Falcon 49 (152)

The largest percentage of Aurora residents attending schools outside of Aurora geographic boundaries are attending DPS schools consistently each year. The next largest percentages over the past four years are either Douglas County (DougCo) schools or Cherry Creek schools (Ch. Creek), followed closely by Byers and Falcon 49.

Charter Schools and Home-Based Education

Charter Schools in East Denver / Aurora

There are thirteen charter schools in the school cohort. Below is a list of all thirteen charter schools and their enrollment over time:






East Denver/Aurora Charter School Enrollment

School Name	Grades Served	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	Trend	5-Year Percent Change	2018 School Performance Rating
Axl Academy	EM	531	569	563	494	471		-11.3%	Performance
DSST: Green Valley Ranch Middle School	M	450	455	453	467	482		7.1%	Performance
DSST: Stapleton High School	H	514	523	546	576	582		13.2%	Performance
Global Village Academy Aurora	EM	1,089	1,179	1,223	1,064	1,024		-6.0%	Priority Improvement
Highline Academy Northeast	E	128	253	342	427	513		300.8%	Priority Improvement
Kipp Montbello College Prep	EM	411	439	455	455	451		9.7%	Improvement
Kipp Montbello Elementary	E		156	245	373	484			Improvement
Kipp Northeast Denver Leadership Academy	H		136	282	391	516			Performance
Lotus School For Excellence	EMH	764	839	879	902	862		12.8%	Performance
Omar D Blair Charter School	EM	808	804	804	801	723		-10.5%	Improvement
Soar At Green Valley Ranch	E	474	452	467	459	446		-5.9%	Performance
Strive Prep - GVR	M	359	379	365	362	363		1.1%	Priority Improvement
Vanguard Classical School - East	EMH	554	678	721	744	707		27.6%	Performance

Nine of these charter schools have an elementary school, eight have a middle school, and four have a high school. As a whole, charter schools in this cohort have seen a 25.4% increase in enrollment since 2014-15. Seven schools are rated Performance, the highest rating given by the state, followed by three schools rated Improvement, and three schools rated Priority Improvement. Under the CSI rating system, two would be Distinction (Strive Prep – GVR and Vanguard Classical School – East).

Listed below are the five schools authorized by CSI in East Denver / Aurora.

CSI East Denver/Aurora Schools Enrollment


School Name	Grades Served	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	Trend	5-Year Percent Change	2018 School Performance Rating
Colorado Early Colleges Aurora	H				250	341			Improvement
High Point Academy	EM	760	751	766	751	702		-7.6%	Improvement
Montessori Del Mundo Charter School	E	209	267	271	302	391		87.1%	Priority Improvement
New America School - Lowry	H	467	527	477	475	299		-36.0%	AEC: Improvement
New Legacy Charter School	H		85	99	96	101			AEC: Improvement

Two of the five schools authorized by CSI in East Denver / Aurora have an elementary school, one has a middle school, and three have a high school. As a whole, enrollment is increasing over the past five years. However, enrollment trends for High Point Academy and New America School - Lowry have both seen decreases in enrollment. Montessori del Mundo is the only school that has seen consistently increasing enrollment over the past five years. New Legacy Charter School has had flat enrollment over the past three years. For Colorado Early Colleges – Aurora, it is too soon to extrapolate trend information.

Home-Based Education

The number of students enrolled in full time home based education overall for each district has decreased over the past five years by 5%. Out of all enrollment for these districts, 0.4% of students used home based education in 2018-19.

Home-Based Education Enrollment

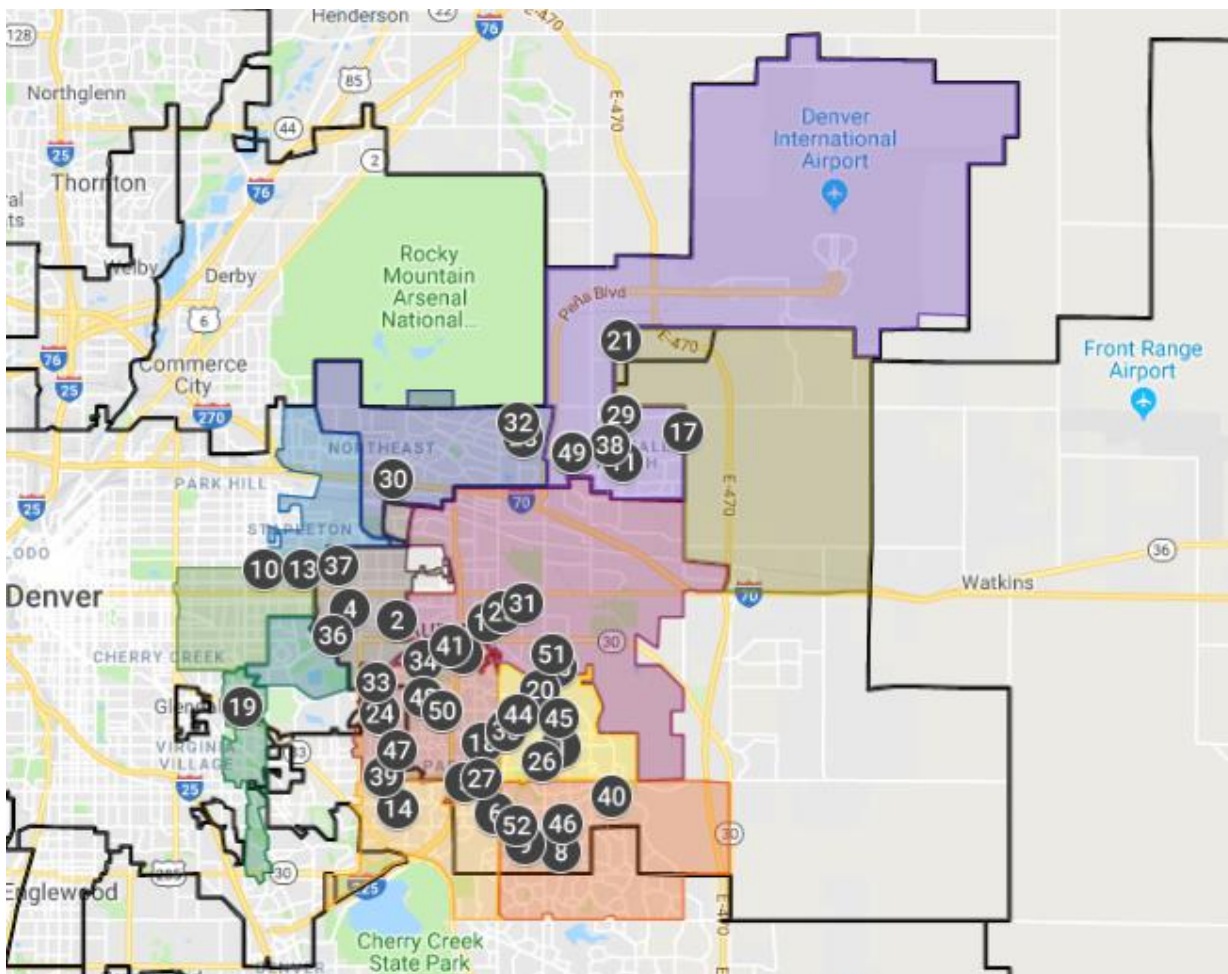
School District (Overall)	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	Trend	5-Year Percent Change
APS	180	201	148	201	185		2.8%
Cherry Creek	276	163	199	125	169		-38.8%
DPS	260	291	269	322	323		24.2%

School Maps

Map of All Schools in East Denver / Aurora

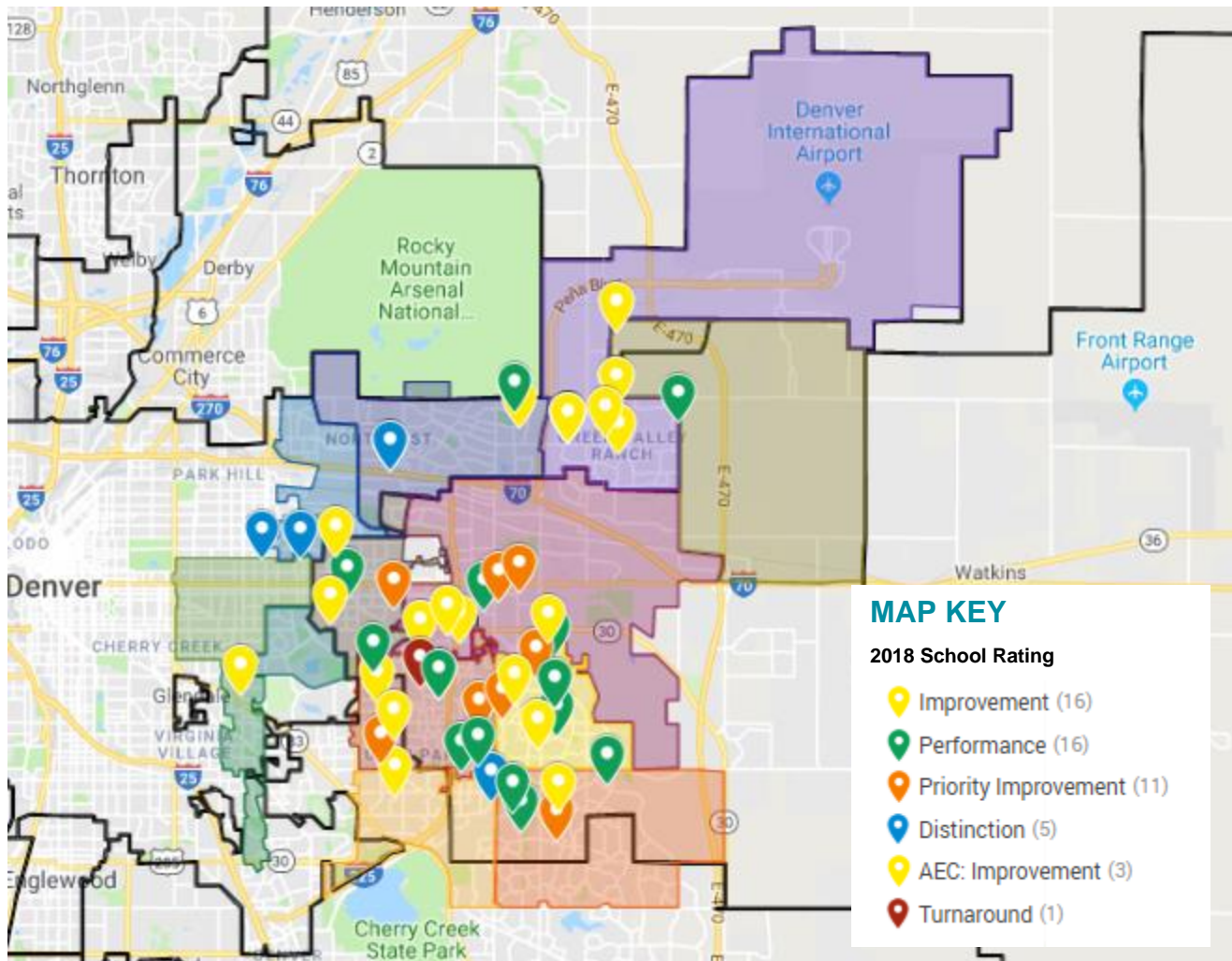
Below is a map that contains all the schools located in East Denver / Aurora. Numbers 7 (Colorado Early Colleges - Aurora), 21 (High Point Academy), 35 (Montessori del Mundo), 36 (New America School - Lowry), & 37 (New Legacy Charter School) are CSI Schools. **Appendix A** has a full list of school names, along with their corresponding map number. APS charter schools are numbers 5 (AXL Academy), 20 (Global Village Academy - Aurora), 33 (Lotus School), & 45 (Vanguard Classical - East). DPS charter schools are numbers 12 (DSST: GVR), 13 (DSST: Stapleton), 23 (Highline Academy), 28 (KIPP Montbello College Prep), 29 (KIPP Montbello Elementary), 30 (KIPP Northeast), 38 (Omar D Blair), 42 (Soar at GVR), & 43 (Strive Prep – GVR).

The full map is located here: <https://tinyurl.com/EastDenverAuroraMap>. To filter by school name, map number, performance rating, and more, you can select the link and click on individual dots on the map or enter the name of the school in the map search box.



Map of 2018 Statewide Percentile Rank

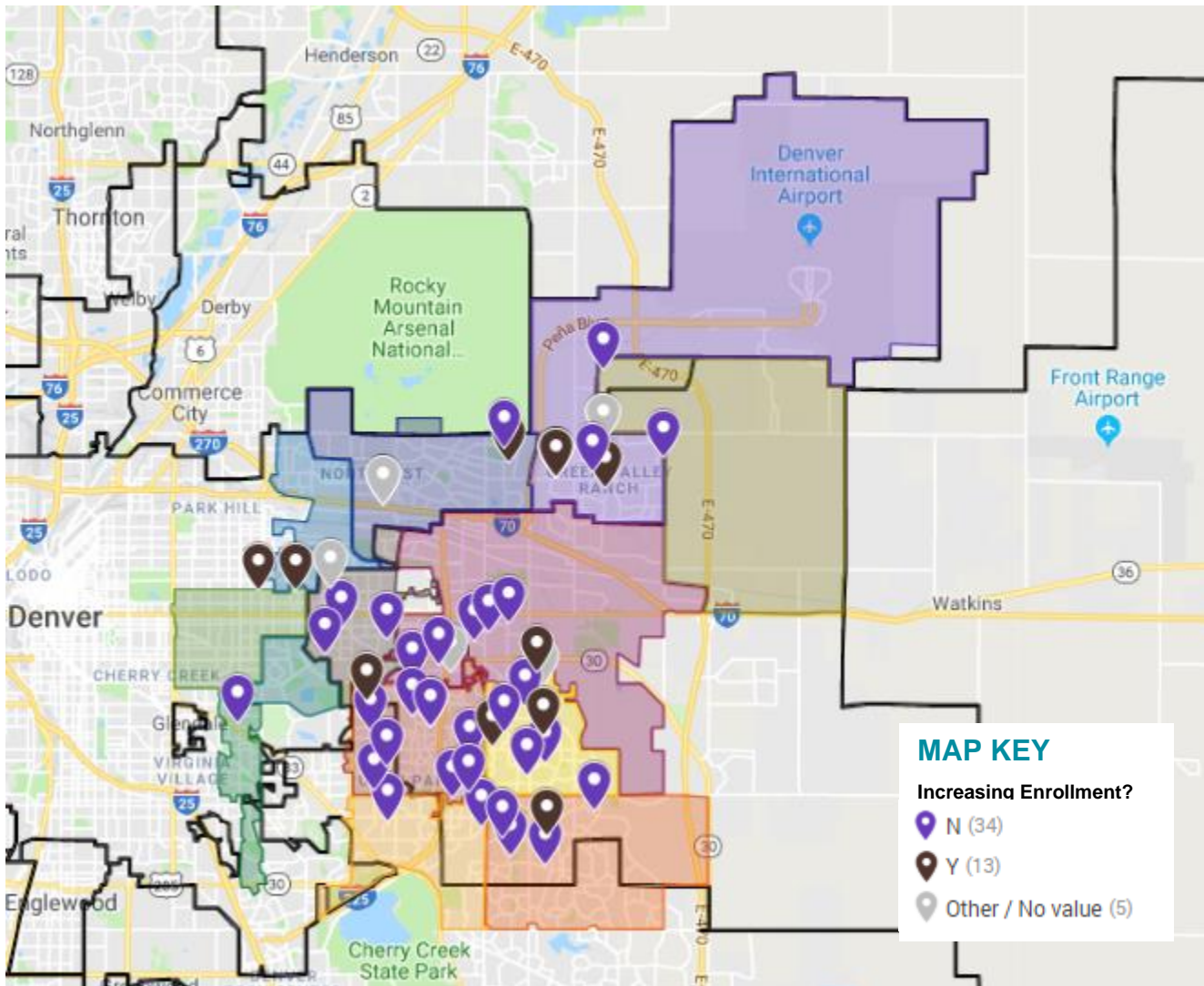
Because there are high performing schools in this district, this map uses calculated percentiles for each school based on their total percent of points earned on the School Performance Framework. To do this, each school's total percent of points earned on the achievement, growth, and postsecondary workforce readiness sections of the School Performance Framework was compared to all of the other schools across the state. Each school then received a percentile based on their performance. Schools above CSI's "Performance with Distinction" rating threshold of the 75th percentile received a distinction rating, coded as blue. Performance is coded as green, improvement as yellow, priority improvement as orange, and no value as grey. To see all percentile values, view **Appendix A**. 10% of schools in East Denver / Aurora would be considered Performance with Distinction under CSI's rating system, placing them in the top 25% of schools in Colorado. The majority of schools fall below this threshold, with 23% of schools receiving the two lowest performance ratings of Priority Improvement or Turnaround. The majority of schools received a Performance (highest under the state, second highest under CSI's modified rating system) or Improvement rating (second highest under the state, third highest under this rating system).



East Denver / Aurora Market Analysis

Map of Schools with an Increase in Enrollment

The map below contains all the schools in East Denver / Aurora, any schools that have decreased their enrollment size from 2014-15 to 2018-19 are marked as “N” on the map. Schools with increasing enrollment are marked as “Y”. Only 28% of schools have increasing enrollment over the past five years in East Denver / Aurora.



Appendix A. Full List of Schools in the East Denver / Aurora School Cohort

Map #	District Name	School Name	Level	Enrollment	5yr % Change	Increasing Enrollment over 5 years?	Charter	CSI Modified Rating	Percentile
1	APS	Arkansas Elementary School	E	411	-17.8%	N	N	Performance	51.3
2	APS	Aurora Central High School	H	2000	-8.6%	N	N	Priority Improvement	11.1
3	APS	Aurora Quest K-8	EM	594	-1.0%	N	N	Distinction	97.6
4	APS	Aurora West College Prep Academy	MH	1136	-11.9%	N	N	Performance	40.6
5	APS	Axl Academy	EM	471	-11.3%	N	Y	Performance	33.9
6	APS	Century Elementary School	E	258	-26.5%	N	N	Distinction	86.5
7	CSI	Colorado Early Colleges Aurora	H	341			Y	Improvement	17.8
8	APS	Dalton Elementary School	E	480	-15.5%	N	N	Priority Improvement	11.7
9	APS	Dartmouth Elementary School	E	331	-17.0%	N	N	Performance	68
10	DPS	Denver School Of The Arts	MH	1097	1.0%	Y	N	Distinction	96.4
11	DPS	Dr. Martin Luther King Jr. Early College	MH	1216	11.9%	Y	N	Improvement	21.1
12	DPS	DSST: Green Valley Ranch	M	482	7.1%	Y	Y	Performance	71.5
13	DPS	DSST: Stapleton High School	H	582	13.2%	Y	Y	Distinction	87.5
14	CH.CREEK	Eastridge Community School	E	793	-13.1%	N	N	Improvement	28.7
15	APS	Edna And John W. Mosley P-8	EM	1041			N	Performance	62.8
16	APS	Elkhart Elementary School	E	597	-20.0%	N	N	Performance	33.2
17	DPS	Florida Pitt-Waller School	EM	808	-14.1%	N	N	Performance	50.7
18	APS	Gateway High School	H	1550	-11.3%	N	N	Priority Improvement	10.8
19	DPS	George Washington High School	H	1174	-13.6%	N	N	Improvement	49.8
20	APS	Global Village Academy Aurora	EM	1024	-6.0%	N	Y	Priority Improvement	12.7
21	CSI	High Point Academy	EM	702	-7.6%	N	Y	Improvement	29.4
22	DPS	High Tech Early College	H	447	-16.4%	N	N	Priority Improvement	12.1
23	DPS	Highline Academy Northeast	E	513	300.8%	Y	Y	Priority Improvement	37.2
24	CH.CREEK	Highline Community Elementary School	E	506	-17.2%	N	N	Improvement	16.2
25	APS	Hinkley High School	H	2167	0.0%	N	N	Priority Improvement	10
26	APS	Iowa Elementary School	E	483	-3.2%	N	N	Improvement	30.2
27	APS	Jewell Elementary School	E	399	-24.7%	N	N	Performance	54.3
28	DPS	Kipp Montbello College Prep	EM	451	9.7%	Y	Y	Improvement	36.2
29	DPS	Kipp Montbello Elementary	E	484			Y	Improvement	38
30	DPS	Kipp Northeast Denver Leadership Academy	H	516			Y	Distinction	74.9
31	APS	Laredo Elementary School	E	425	-22.7%	N	N	Priority Improvement	13.1
32	DPS	Lena Archuleta Elementary School	E	509	-18.3%	N	N	Performance	66.3
33	APS	Lotus School For Excellence	EMH	862	12.8%	Y	Y	Performance	63
34	APS	Lyn Knoll Elementary School	E	266	-17.6%	N	N	Improvement	19.1
35	CSI	Montessori Del Mundo Charter School	E	391	87.1%	Y	Y	Priority Improvement	14.1
36	CSI	New America School - Lowry	H	299	-36.0%	N	Y	AEC: Improvement	7.2
37	CSI	New Legacy Charter School	H	101			Y	AEC: Improvement	4.8
38	DPS	Omar D Blair Charter School	EM	723	-10.5%	N	Y	Improvement	50.3
39	CH.CREEK	Ponderosa Elementary School	E	647	-17.5%	N	N	Priority Improvement	12
40	APS	Side Creek Elementary School	E	476	-30.4%	N	N	Performance	53.2
41	APS	Sixth Avenue Elementary School	E	451	-33.6%	N	N	Improvement	13.1
42	DPS	Soar At Green Valley Ranch	E	446	-5.9%	N	Y	Performance	53.6
43	DPS	Strive Prep - GVR	M	363	1.1%	Y	Y	Priority Improvement	16.9
44	APS	Tollgate Elementary School	E	532	-23.5%	N	N	Improvement	23.7
45	APS	Vanguard Classical School - East	EMH	707	27.6%	Y	Y	Performance	35.9
46	APS	Vassar Elementary School	E	542	0.7%	Y	N	Improvement	29.4
47	CH.CREEK	Village East Community School	E	768	-3.3%	N	N	Improvement	16.5
48	APS	Virginia Court Elementary School	E	462	-18.5%	N	N	Turnaround	6.4
49	DPS	Vista Academy	MH	287	11.7%	Y	N	AEC: Improvement	12.5
50	APS	Wheeling Elementary School	E	480	-16.4%	N	N	Performance	41.4
51	APS	William Smith High School	H	359	18.5%	Y	N	Improvement	20.9
52	APS	Yale Elementary School	E	474	-6.7%	N	N	Performance	33.4