Ohio student mobility research project

FOREWORD *by the Thomas B. Fordham Institute*

Student Nomads: Mobility in Ohio's Schools

November 2012

*Research conducted by
Community Research Partners for
the Thomas B. Fordham Institute*

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STUDENT NOMADS: MOBILITY IN OHIO'S SCHOOLS

INTRODUCTION

Imagine for a moment you're a school teacher. For the sake of argument, let's say that you teach at Southmoor Middle School, located on the south side of Columbus. To start your year, you have 25 of Columbus' most eager, bright-eyed sixth graders in your classroom. Their enthusiasm is fresh like a new textbook and bubbles like a science fair volcano.

Fast forward to May and your classroom has changed considerably. During the school year (you have an average Southmoor classroom) five new students came to your class while eight students departed at some point for another school. For incoming students, you had to make mid-year assessments of those students' learning levels and quickly integrate them into your lesson plans and classroom culture. You likely did all this without the assistance of a student record (as those can take months to find their way to you), while also maintaining the pace of learning for those students who have been with you all year. Student mobility complicates things.

PIONEERING RESEARCH

The nomadic-like nature of the Southmoor Middle School student body is not an outlier when it comes to student mobility. In fact, it's one of many schools in Ohio—and across the nation—that copes with a revolving door of students—students who enter and leave a school during the year. Yet, despite the scale and scope of student mobility, the research on it is slim; as far as we could tell, no research has systematically examined the scale of student mobility across an entire state.

Recognizing the cavernous void in student mobility research, along with hearing anecdotes about mobility's significant impact on some Ohio schools, the Thomas B. Fordham Institute gained an interest in documenting and understanding the scale and impact of mobility. We made our first forays into student mobility in 2010 by partnering with a University of Dayton economist to study mobility in the Dayton area using data provided by the Ohio Department of Education. The findings from that county-wide study were astonishing, showing the magnitude of mobility within Dayton Public Schools, across district and charter schools, and across district lines.

From this limited study we decided that conducting a statewide analysis of student mobility had a lot of merit, but finding an organization that could manage such a massive research project was not an easy thing to do. Serendipitously and out of the blue, we received a phone call from Roberta Garber at Community Research Partners (CRP) expressing interest in working together on some sort of mobility

project. CRP had conducted a mobility study for the Columbus City School district in 2003, and had the analytical capacity to do a statewide mobility study. It was a natural partnership.

Thus, the Fordham Institute, Community Research Partners, and ten other funding partners joined together to launch this groundbreaking research project that uses student-level data (over 6 million student records) to gauge the mobility of students across all of Ohio's 3,500 plus public (district and charter) school buildings and e-schools. Relying on the state department's Education Management Information System (EMIS) database from two school years (October 2009 to May 2011) we looked at every K-12 school move across the Buckeye State. But, CRP went further, and did a deep dive in five metro areas – Cincinnati, Cleveland, Columbus, Dayton, and Toledo, as well as into the state's major e-schools. The results of this year-long study are significant, wide-ranging, and absolutely foundational for a better understanding of how Ohio's educational system functions (or dis-functions) in the face of significant numbers of student moves and movers.

MEASURING MOBILITY

School moves for students have many causes. Some are bad – family turmoil, home foreclosure, apartment eviction. Others are good – search for a higher performing school or a school better suited to the needs of a child, a new home in a better neighborhood, or a better job for a parent. Research so far, and this includes the CRP work, cannot easily distinguish the cause of a student move. We can, however, identify those schools that have more coming and going of students. Two indicators measure a district's or building's mobility: The two-year stability rate and the one-year churn rate.

- *Stability rate* – indicates the percentage of a school's students that stayed in a school from October 2009 to May 2011.
- *Churn rate* – indicates the incidence of mobility (the number of student admits plus withdrawals), relative the enrollment size of a school, over a single school year (October 2010 to May 2011).

PREVALENCE OF STUDENT MOBILITY

The statewide research conducted by CRP found that the prevalence of student mobility is considerably greater than most of us appreciate or fully understand. Student mobility verges on the epidemic in inner-city schools; but, it is also common in suburbs and rural schools. Figure 1 depicts the stability and churn rates of a few select school buildings in the Columbus region (suburban and urban), including Southmoor Middle School, which led our discussion.

Figure 1: Stability and churn rates for select sample of Columbus-area schools

(A) Stability rate: One quarter (Griffith) to one half of students (Southmoor) leave their original school over two year period. (B) Churn rate: Average class of 25 students would expect to have between 4 (Griffith, 25*.15) and 13 (Southmoor, 25*.52) incidents of mobility in one school year.

(A) Two-year stability rate

School	Rate
Griffith Thomas Elementary (A)	77%
Groveport Madision Middle School North (B)	75%
Southmoor Middle School (D)	49%
KIPP: Journey Academy (B)	59%

(B) One-year churn rate

School	Rate
Griffith Thomas Elementary (A)	15%
Groveport Madision Middle School North (B)	22%
Southmoor Middle School (D)	52%
KIPP: Journey Academy (B)	19%
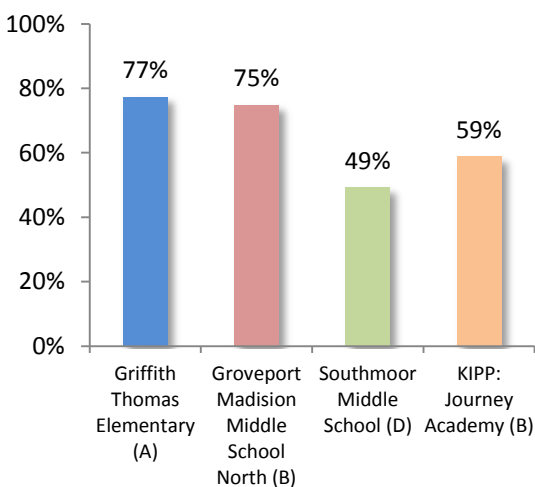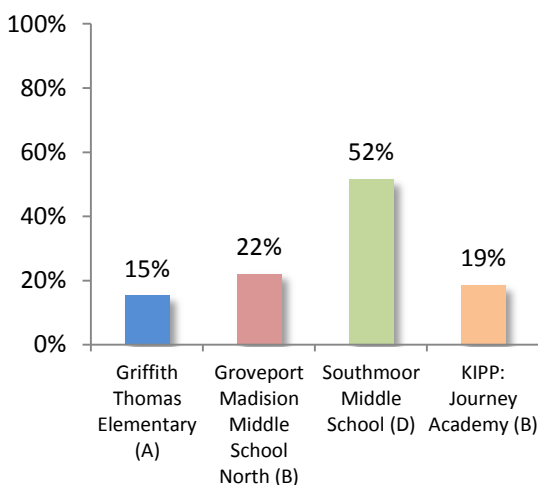
Source: Ohio Department of Education, EMIS database, and CRP analysis. **Note:** Letters in parentheses represent school building rating, school year 2010-11. Griffith Thomas is part of Dublin School District (suburban, high-income); Groveport Madison Middle is part of Groveport Madison School District (suburban, middle-income); Southmoor Middle is part of Columbus City Schools (urban, low-income); KIPP: Journey Academy is a charter school (urban, low-income).

A higher stability rate means that more students stay at the school over time—hence, we'd consider Griffith Thomas, a high-wealth suburban school, to be more stable than Southmoor Middle, though even Griffith lost nearly one quarter of its students over two years. A Southmoor Middle School student experiences more movement of peers, with only one in two students staying in the school over a two year period.

A higher churn rate means that there is a greater flow of students moving into and out of the school. To interpret the churn percentage, we could think of it this way (as we do in our article's opening paragraph): For a 25-student Southmoor Middle classroom, the average teacher would have had to cope with 13 student arrivals or departures during the 2010-11 school year.

THE IMPACT OF STUDENT MOBILITY ON ACADEMIC PERFORMANCE

Persistently mobile students do less well in school than their non-moving peers. We asked CRP to document this for us by connecting mobility history to student test scores. CRP found that frequent school movers face a general downward trend in average test scores and passage rates. For example, Figure 2 depicts the impact of moves for 3rd and 8th graders in Columbus City Schools on both reading and mathematics tests. All lines trend downward.

Figure 2: Columbus City Schools: Average scores on spring 2011 OAA tests by two-year mobility history
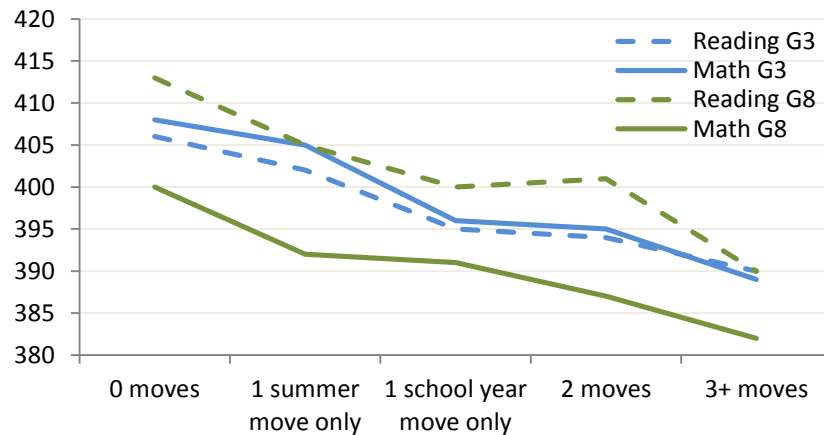
Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records. **Note:** Third grade is abbreviated by G3, Eighth grade is abbreviated by G8.

Serially mobile students do less well than their peers, and there is a relationship between mobility rates, student demographics and test scores. Figure 3 depicts the average scores on the spring 2011 third grade math test for selected student groups from Columbus City Schools. Scores were lowest for the economically disadvantaged, Blacks, and multiple movers.

Figure 3: Average scores on third-grade math test by CCS students, spring 2011
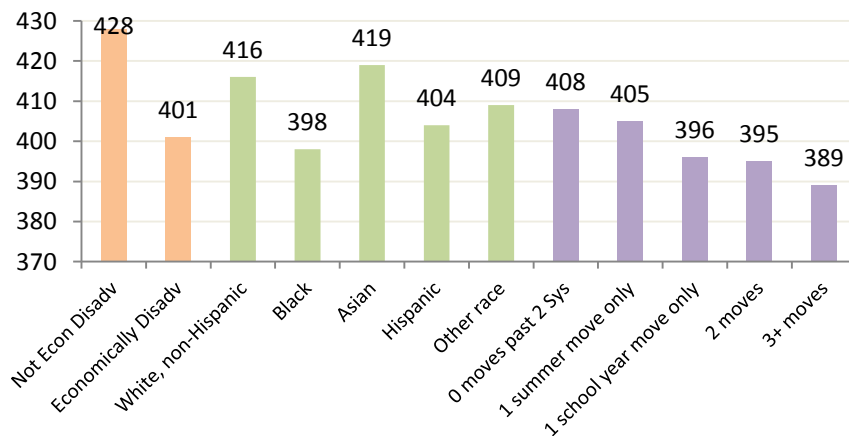
Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

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A disproportionate number of multiple movers were also economically disadvantaged and black. These three characteristics in tandem serve as a sort of perfect demographic trifecta for gauging a life-time of school failure by the time a student leaves third grade.

BUT NOT ALL IS GLOOMY

Despite the negative impact on student achievement for serial movers, there is a second type of student mobility that benefits students. This happens when a student moves from a failing school to a higher performing school. When students move to a better school it offers them a better chance at academic success if they stay there. Consider the boost a student gets when they move from an F-rated school to an A-rated school. They are apt to receive better instruction, learn in a more secure and healthier school environment, and attend classes with more motivated peers. Any or all of these school-based factors can help drive up the success rates of disadvantaged students.

This mobility study indicates that there is a considerable amount of upward student mobility in the Buckeye State. Consider, for example, the number per students moving from failing urban public schools (D or F rated) to more successful suburban schools (A or B rated schools) in metro Columbus. Of the 5,473 students over two years who exited Columbus City Schools (CCS) for another district, 52 percent moved to a school with a performance rating at least two ratings higher than their CCS school of origin. The percentages where similar for Cincinnati, Cleveland, Dayton and Toledo and it shows us that many kids across the state are moving to a better situation when they change schools.

CONCLUSION: COPING WITH MOBILITY

We've found that student mobility is a near-everyday reality for schools in many parts of the state: Rural, suburban, and urban schools. The CRP research is largely descriptive, and only lightly touches on issues of mobility's causes and consequences. Let alone the costs or possible advantages of certain types of student mobility. Thus, the findings from CRP, first and foremost, call for more study, public discussion, and debate on all the aspects of student mobility and its impact. Expect more from us on this topic in the coming weeks, months and years as this is an issue that deserves far more study and attention from everyone concerned about Ohio's children and their schooling.

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Ohio Student Mobility Research Project
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1.0 Introduction

1.1 What is student mobility?

Student mobility is the phenomenon of students in grades K–12 changing schools for reasons other than customary promotion from elementary school to middle school or from middle school to high school. This non-promotional school change can occur during the school year or in the summer between school years. It may involve residential change, school change, or both.

Students may change schools for reasons that are considered positive, such as when a family moves to a better school, neighborhood, or job. In fact, the current education policy environment sends a strong message to parents that school choice—which typically involves school change—is good. Community-based charter schools and school voucher programs are examples of school choice policy initiatives. The federal No Child Left Behind Act of 2001 (NCLB) requires that school districts provide students in schools identified as "In School Improvement," based on trends in proficiency test passage rates, with the opportunity to transfer to a school not designated as "In School Improvement."

1.2 The importance of understanding student mobility

Student mobility has consequences for schools, students, communities, and public policy. Research has found that students who change schools more frequently are likely to have worse educational outcomes. Highly mobile students are also more likely to be those with other risk factors—low income, special education, homelessness, or an unstable home environment. School changes worsen the learning and achievement problems of these at-risk children.

High student mobility puts a stress on teachers and administrators who must continually focus on incorporating new students into the building and classroom. Stable students in schools with high mobility also suffer from the disruptions to the classroom environment and the slower instructional pace necessary to accommodate new students. School districts face increased administrative costs from student mobility, including costs related to student records transfer and transportation.

There are community impacts of high student mobility that reach beyond the school. Neighborhoods and school districts with low performing schools and unstable school populations are disincentives to home ownership and economic development. Investments in school-based initiatives to improve attendance, academic achievement, and graduation rates are less effective if students move from school to school, dropping in and out of programs.

Finally, student mobility has important consequences for state and local education policy. A better understanding of how mobility impacts schools and students has implications for accountability measurement, education funding, and curriculum and instruction.

1.3 The Ohio Student Mobility Research Project

History of the project

In 2011, Community Research Partners (CRP) and The Thomas B. Fordham Institute (Fordham) entered into a partnership to conduct research on student mobility in Ohio. Fordham, a national leader in advancing educational excellence through quality research, commentary, and advocacy, wanted to build on their recent research on student mobility in the Dayton area and examine student mobility throughout the state. CRP brought to the project its experience in undertaking research on student mobility in the Columbus City Schools (CCS) and in processing and analyzing student-level records from the Ohio Department of Education (ODE).

In June 2011, Fordham provided CRP with a planning grant to develop a workable research plan. ODE provided CRP with student-records from the Education Management Information System (EMIS). Beginning with the 2008–2009 school year, EMIS has included unique student identifiers that enable tracking of individual students over time as they enter and exit public districts and public

charter schools in Ohio. With assistance from ODE staff in understanding and using the EMIS data, CRP analyzed student records for Franklin County districts. The outcome of the planning phase was a design for a large-scale study of student mobility in Ohio, to be conducted by CRP. Work on the project began in February 2012.

Project funders

The diverse set of project funders is indicative of the importance of the issue of student mobility. Funders are supporting the Ohio Student Mobility Research because of their interest in understanding: 1) the patterns of student mobility in Ohio or in a local community, 2) the impact of mobility on students and schools, and/or 3) the implications of mobility for state and local public policy. In addition to Fordham, funders include: The Siemer Institute for Family Stability, The Nord Family Foundation, The Cleveland Foundation, KnowledgeWorks, KidsOhio.org, American Federation of Teachers/Ohio Federation of Teachers, School Choice Ohio, United Way of Central Ohio, United Way of Greater Toledo, and The Columbus Foundation.

Research components

CRP and Fordham are not aware of other research that has examined student mobility at the scale, scope, and level of detail of the Ohio Student Mobility Research. The research employs descriptive and analytic statistics—presented in spreadsheets, visualizations, and reports—to provide a picture of student mobility for all Ohio public school districts and buildings and public charter schools, with in-depth analysis for five large urban regions (Columbus, Cleveland, Cincinnati, Dayton, Toledo).

The research also addresses several state policy issues of interest to Fordham: 1) open enrollment patterns, 2) "non-counters" profile (students whose test scores do not count in district performance ratings), and 3) monthly enrollment profiles of public districts. The project did not include collecting qualitative data from students, families, school personnel, or other stakeholders to determine why students change schools or the impact of student mobility.

About the data

As would be expected when undertaking such complex research, CRP made a number of decisions, in consultation with Fordham and ODE, about data analysis methods, definitions, and parameters. There are also a number of caveats about the data that are important to understand. These are described below.

The dataset

The dataset includes ODE EMIS files (student standing, student attributes, and student achievement tests) with 2.1 million unique students in grades K–12 during the 2009–2010 and 2010–2011 school years (about five million instances of enrollment). The following were excluded from the analysis dataset:

- Non-instructional relationship between student and district, i.e. district provides only supportive services to student or has a residual reporting requirement for student

- Zero days in attendance over entirety of enrollment record

- Educational Service Centers

- Preschools and preschool students

- Foreign exchange students

- Kindergarten withdrawals

- Island Districts and College Corner, which are very small or geographically isolated

Definitions

Charter schools. Ohio public charter schools (called "community schools" by ODE) include "bricks and mortar" schools that have school buildings and accredited e-charters, where teaching is done on-line. For brevity and clarity in this report, these two types of charter schools are referred to as: 1) *physical charter schools* and 2) *e-charter schools.*

School year. For most of the analysis, a school year is defined as beginning on October 1 (the official fall enrollment count date for Ohio schools) and ending on May 15. This was done to accommodate the various starting and ending dates of schools across the state.

Dropout Prevention and Recovery Program. A dropout recovery school, operated under a waiver from ODE, enables high school students (ages of 16 to 21) who are at risk of not graduating to graduate in lieu of meeting the Ohio Core curriculum. All dropout recovery schools identified in the ODE data set are charter schools.

Mobility-related terms. Report section 3.0 begins with definitions and other information related to the mobility measures used in this report.

Local context

The research scope and timeline did not include collecting information on unique situations in local districts or charter schools, not always evident in the EMIS dataset, which may contribute to or explain mobility rates and patterns. These may include: 1) competitive magnet or alternative schools that only admit students at the beginning of the school year, 2) school building demolition, renovation, or new construction that result in large numbers of students changing buildings; 3) starting, ending, or moving special programs (programs for students with disabilities, LEP students); 4) grade realignment (changing a school from K–5 to K–8); or 5) special purpose schools, (dropout recovery, welcome/transition schools) that by design involve students moving in and out throughout the year. CRP and Fordham hope that discussion of the research by local education stakeholders will provide this additional context for the data analysis.

Reliability of student identification numbers

This research is only possible because ODE has unique statewide student identifiers (SSID) that enable tracking students across public schools and districts. However, there is anecdotal evidence from district staff and others familiar with student recordkeeping that a new identifier is sometimes assigned to a student who enrolls in a new district. Because ODE records do not include student names, it was not possible for CRP to determine the extent to which this is happening; however, ODE data staff believes that it involves a very small number of cases.

The school attendance data controversy

As this report is being written, the State Auditor is examining student attendance data for districts across Ohio. It is alleged that some school staff withdrew students they knew to be still enrolled, deleted their absences, and then re-enrolled them, for the purpose of improving school ratings. This practice would increase a school's attendance rate, and only the test scores of students who have been continually enrolled from October through the spring proficiency test dates are counted in a school's overall test-passage rate.

This does not, however, impact the Ohio Student Mobility Research for the following reasons:

1. Student attendance records were not used for the research.

2. For the purposes of calculating building churn rates, a student who was withdrawn and then readmitted to the same building in less than 30 days was treated as continuously enrolled rather than as an exit/reentry event. It was assumed that this was an administrative action and not a school move.

3. Analysis of the relationship of mobility to proficiency test scores is based on individual student records. Building-level test passage rates were not used.

In addition, this research includes a profile of "non-counters"—students whose test scores do not count in building or district report cards—which can help to inform this important dialogue.

Caveats about accuracy

CRP has been very careful in collecting, analyzing and presenting data to prepare the Ohio Student Mobility Research Project report. However, the project did not include authenticating the data provided by ODE. If careful readers of the report discover data errors or typographical errors, CRP welcomes this feedback and will publish corrections to the report.

Statewide Overview

The Ohio Student Mobility Research project has produced a large body of data on Ohio schools and students. It is intended to be a tool that can be used by educators, policymakers, and the broader community to understand and address student mobility. This report provides an overview of the statewide data sets to help users in conducting their own analysis of the data. The analysis includes:

- **Magnitude of mobility:** overview of statewide data—primarily in the form of tables and maps—on the stability of students within districts and buildings (cohort stability) and numbers of movements into and out of districts and buildings (churn).

- **Policy related issues:** data that address three policy areas—patterns of open enrollment, analysis of students whose test scores do not count at the district/school level, and analysis of monthly enrollment counts for public districts.

Additional data

- **Online spreadsheets.** Excel spreadsheets with mobility data for every public district, building, and charter school in Ohio can be found at: www.researchpartners.org.

- **Profile reports for urban areas.** Profile reports for the Cleveland, Cincinnati, Columbus, Dayton, and Toledo areas are available at: www.researchpartners.org.

2.0 Ohio public schools

The Ohio Student Mobility Research presents and analyzes data for Ohio's 609 public school districts, which are categorized by the Ohio Department of Education into seven district types based on size, geographic location, and student characteristics (Map 1, Table 1). These districts have a total of 3,312 buildings and a 2010-2011 average daily enrollment of 1,637,230. The research also includes data for 312 physical charter schools and 26 e-charters, with a total enrollment of 113,698.

Map 1. Ohio public school districts by district type and study areas defined for the Ohio Student Mobility Research
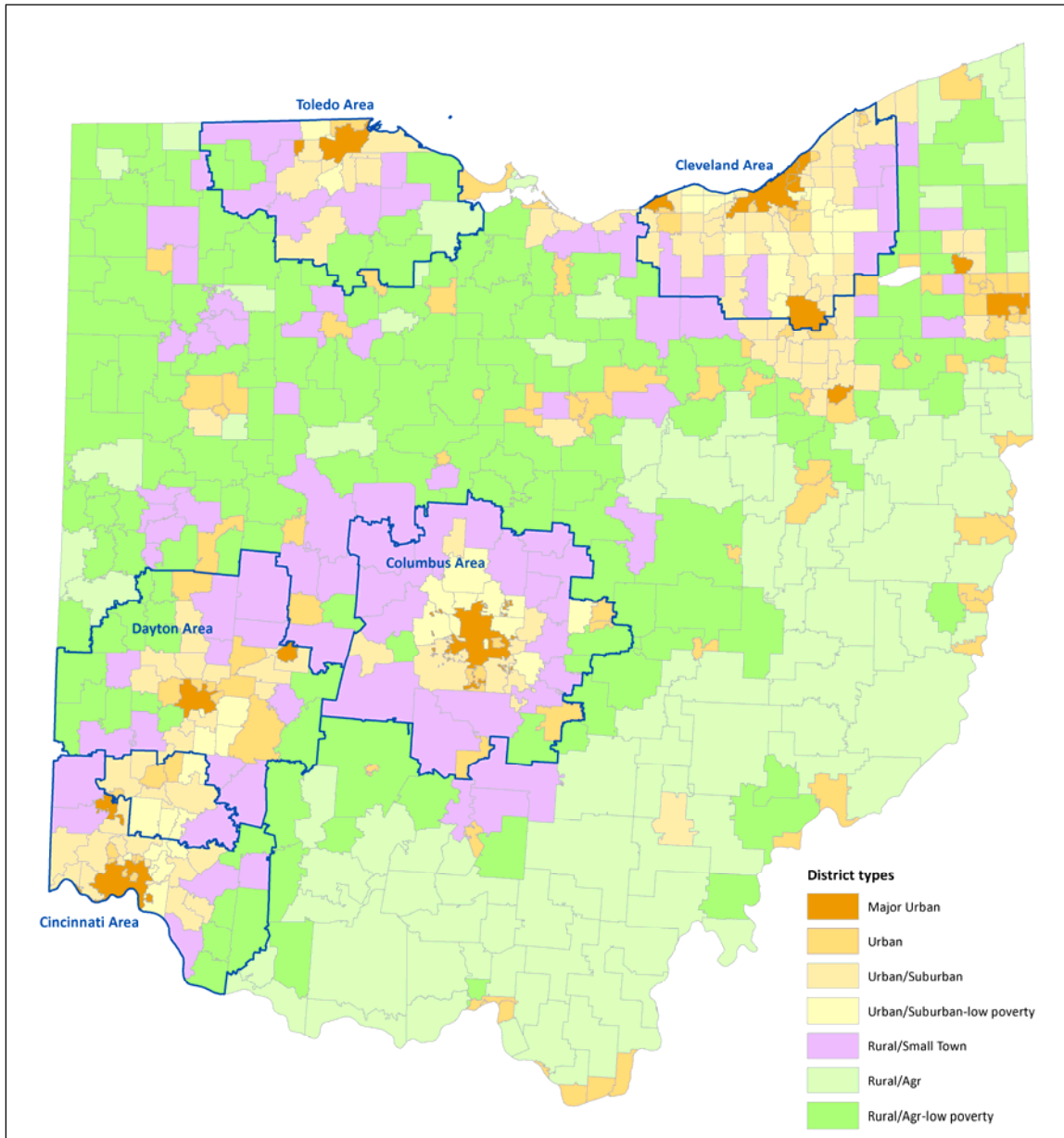
Source: Ohio Department of Education
Note: In the maps of this report, district outlines are based on U.S. Census TIGER files. District types are based on an ODE methodology developed in 2007. The map above and analyses through the project do not include the island districts or College Corner. The Cincinnati and Dayton study areas have 12 districts in common.

Table 1. Number of districts, buildings, and enrollment by type of district or charter school, school year 2010–2011

	Public districts	Buildings/schools	Average daily enrollment
Ohio public districts	609	3,312	1,637,230
Major Urban	15	534	244,396
Urban	102	537	258,250
Urban/Suburban	107	685	398,938
Urban/Suburban-low poverty	46	372	256,981
Rural/Small Town	81	286	129,227
Rural/Agricultural	97	369	146,251
Rural/Agricultural-low poverty	161	529	203,187
Public charter schools	-	338	113,698
Physical charter schools	-	312	80,646
E-charter schools	-	26	33,052

Note: Excludes two island districts and College Corner

3.0 Magnitude of mobility

3.1 Section overview and key concepts

This section of the report examines how many students change schools, both during the school year and between school years. The school year is defined as the period from October 1 (the date that districts report enrollment to ODE) and May 15. Promotional moves (elementary to middle school; middle school to high school) are not included in these calculations. The magnitude of mobility is measured in two ways: (1) cohort stability and (2) churn. Both are calculated at the district and building levels.

This report provides an overview of the magnitude of mobility in Ohio public schools. Additional cohort stability and churn data for districts, buildings, and charter schools can be found in online spreadsheets www.researchpartners.org.

Cohort stability: measures retention of students over time

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

- **School District Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same district at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

- **School Building Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same building at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

Data notes

- A student who changed buildings within a district over two school years, but remained consistently enrolled in the district, is considered a stable student in the district-level stability calculation.

- Some building cohort instability is the result of changes in district programming that moves groups of students (e.g. LEP students) from one building to another.

- The analysis did not capture students who moved out of, and back into, a district or building during a school year (between October 1 and May 15)

Churn rate: measures movements into and out of a building or district

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

- **District churn rate:** The sum of all instances of district admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school year 2010–2011.

- **Building churn rate:** The sum of all instances of building admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school year 2010–2011.

Data notes

- A student's building enrollment Start Date that was fewer than 30 days following the Withdrawal Date from the same building was treated as continuous enrollment rather than an exit/reentry event.

- Because churn measures moves, individual students can be counted multiple times, each time they leave a district or building, and each time they enter a district or building, during a school year.

- The source for all tables in this section is CRP analysis of ODE enrollment records.

3.2 Student cohort stability

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

School district stability

This overview of statewide patterns of district stability includes a breakdown of districts by district type and stability rate (Table 2); districts that have both high economic disadvantage and relatively stable student populations (Table 3); districts that have high mobility, but also a high performance rating (Table 4); and districts statewide with the highest and lowest stability rates (Tables 5 and 6).

Table 2. Two-year district stability rate, by district type and grade level

District type	District stability, grades K–7				District stability, grades 8–11			
	<70%	70–79%	80–89%	90%+	<70%	70–79%	80–89%	90%+
All districts	6	47	384	172	32	195	297	85
Major Urban	1	10	4	-	5	9	1	-
Urban	3	23	68	8	15	47	38	2
Urban/Suburban	-	6	62	39	1	26	62	18
Urban/Suburban-low poverty	-	-	13	33	-	-	13	33
Rural/Small Town	-	-	49	32	-	11	59	11
Rural/Agricultural	1	4	77	15	6	50	38	3
Rural/Agricultural-low poverty	1	4	111	45	5	52	86	18

Table 3. Highest 10 district stability rates for grades K–7 among districts with high economic disadvantage [1]

District	Primary county	District type	Enrollment	Rating	Economic disadv. (%)	District stability (%)	
						K–7	8–11
Manchester	Adams	Rural/Agr	842	B	73.2	87.5	70.0
Alliance	Stark	Urban	2,859	B	77.0	84.5	84.3
Sandusky	Erie	Urban	3,400	C	75.6	84.1	79.4
Campbell	Mahoning	Urban	1,261	B	78.9	83.0	65.4
Perry	Allen	Rural/Agr	832	B	71.9	82.7	64.9
Ashtabula Area	Ashtabula	Urban	3,936	C	71.3	82.4	76.1
Barberton	Summit	Urban	3,676	B	70.7	82.3	81.9
Canton City	Stark	Major Urban	9,750	C	80.6	82.0	80.2
Akron	Summit	Major Urban	22,603	C	84.7	81.5	77.1
Springfield	Clark	Major Urban	7,398	B	76.3	81.3	69.7

(1) Economic disadvantage greater than 70%

Table 4. Districts with low K–7 district stability rates and a district rating of Excellent (A) or better [1]

District	Primary county	District type	Enrollment	Rating	Economic disadv. (%)	District stability (%)	
						K–7	8–11
Bloomfield-Mespo	Trumbull	Rural/Agr	297	A	60.7	69.1	67.9
Northridge	Montgomery	Urban	1,627	A	77.9	72.4	68.2
Groveport Madison	Franklin	Urban/Suburban	5,746	A	58.0	74.0	61.0
New Miami	Butler	Urban	770	A	78.4	74.3	63.3
West Carrollton	Montgomery	Urban/Suburban	3,726	A	54.5	77.8	77.0
Norwood	Hamilton	Urban	2,171	A	60.4	78.2	70.0
Reynoldsburg	Franklin	Urban/Suburban	5,811	A	41.6	78.8	72.5
Willard	Huron	Rural/Agr-low poverty	1,767	A	57.2	79.1	76.4
Batavia	Clermont	Urban/Suburban	2,114	A	44.0	79.8	78.0

(1) District stability rate less than 80%

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Table 5. All districts: Highest and lowest two-year district stability rates based on grades K–7

District	Primary county	District type	Enroll.	Rating	Economic disadv. (%)	District stability (%)	
						K–7	8–11
St. Henry	Mercer	Rural/Agr-low pov.	938	A	9.8	98.4	94.6
Western Reserve	Mahoning	Rural/Small Town	752	A	24.2	97.6	84.7
Marion	Mercer	Rural/Agr-low pov.	889	A	5.6	97.2	96.9
Fort Recovery	Mercer	Rural/Agr-low pov.	963	A+	15.6	97.1	95.0
Coldwater	Mercer	Rural/Agr-low pov.	1,410	A	15.4	96.6	93.7
Fort Loramie	Shelby	Rural/Small Town	813	A	8.1	96.6	85.1
New Bremen	Auglaize	Rural/Small Town	832	A	11.6	96.4	94.9
Independence	Cuyahoga	Urban/Suburban	1,101	A	10.3	96.3	93.2
Kalida	Putnam	Rural/Small Town	609	A	11.8	96.0	93.1
Miller City-New Cleveland	Putnam	Rural/Small Town	448	A	9.5	95.5	97.1
Ottawa Hills	Lucas	Urban/Suburban-low pov.	977	A	<5.0	95.3	93.2
Russia	Shelby	Rural/Small Town	483	A	9.0	95.3	85.6
Bay Village	Cuyahoga	Urban/Suburban-low pov.	2,453	A	9.6	95.1	94.0
Chagrin Falls	Cuyahoga	Urban/Suburban-low pov.	1,936	A+	<5.0	95.0	93.8
Ottoville	Putnam	Rural/Small Town	483	A	11.5	94.9	92.2
Anna	Shelby	Rural/Small Town	1,251	A	11.8	94.9	88.6
Grandview Hts.	Franklin	Urban/Suburban	1,092	A+	18.0	94.9	93.2
Minster	Auglaize	Rural/Small Town	835	A+	13.3	94.8	95.6
Madeira	Hamilton	Urban/Suburban-low pov.	1,392	A	8.7	94.7	92.7
Kenston	Geauga	Urban/Suburban-low pov.	3,141	A	11.7	94.5	94.6
New Miami	Butler	Urban	770	A	78.4	74.3	63.3
Youngstown	Mahoning	Major Urban	6,088	D	91.9	74.3	65.3
Groveport Madison	Franklin	Urban/Suburban	5,746	A	58.0	74.0	61.0
Mad River	Montgomery	Urban	3,461	B	51.9	73.4	78.4
Whitehall	Franklin	Urban	2,818	C	75.7	73.2	69.0
North College Hill	Hamilton	Urban	1,595	C	68.8	72.8	67.3
Portsmouth	Scioto	Urban	1,987	C	74.1	72.4	64.9
Mansfield	Richland	Urban	3,498	C	84.1	72.4	70.4
Northridge	Montgomery	Urban	1,627	A	77.9	72.4	68.2
Crestline	Crawford	Urban	702	B	65.1	71.5	67.0
Trotwood-Madison	Montgomery	Urban	2,657	C	81.9	70.9	69.4
Bettsville	Seneca	Rural/Agr	175	B	56.7	70.8	76.7
Mt. Healthy	Hamilton	Urban	3,567	C	76.1	70.2	64.9
St Bernard-Elmwood Place	Hamilton	Urban	974	B	72.0	70.1	57.9
Bloomfield-Mespo	Trumbull	Rural/Agr	297	A	60.7	69.1	67.9
East Cleveland	Cuyahoga	Major Urban	3,182	D	88.5	69.1	62.6
Lockland	Hamilton	Urban	632	C	62.9	68.1	80.6
Warrensville Hts.	Cuyahoga	Urban	1,956	D	60.2	66.1	61.4
Jefferson Township	Montgomery	Rural/Agr-low poverty	419	D	5.3	62.6	68.9
Liberty	Trumbull	Urban	1,427	B	60.2	61.3	79.1

Table 6. Districts over 5,000 enrollment: Highest and lowest two-year district stability rates based on grades K–7

District	Primary county	District type	Enroll.	Rating	Economic disadv. (%)	District stability (%)	
						K–7	8–11
Upper Arlington	Franklin	Urban/Suburban-low pov.	5,542	A+	1.4	94.1	95.3
Olentangy	Delaware	Urban/Suburban-low pov.	16,263	A+	7.4	93.7	94.4
Solon	Cuyahoga	Urban/Suburban-low pov.	5,043	A	9.2	93.6	94.1
Brunswick	Medina	Urban/Suburban	7,386	A	23.5	93.0	83.5
Strongsville	Cuyahoga	Urban/Suburban-low pov.	6,515	A	15.3	92.9	93.0
Springboro Community	Warren	Urban/Suburban-low pov.	5,493	A+	6.3	92.3	89.0
Forest Hills	Hamilton	Urban/Suburban-low pov.	7,351	A+	10.8	92.1	91.0
Jackson	Stark	Urban/Suburban	5,728	A+	17.5	92.1	91.4
Mentor	Lake	Urban/Suburban	8,156	A	24.7	91.9	90.2
Mason	Warren	Urban/Suburban-low pov.	10,503	A+	6.4	91.8	90.8
Oak Hills	Hamilton	Urban/Suburban	7,727	A	6.5	91.6	89.4
Sylvania	Lucas	Urban/Suburban-low pov.	7,312	A	18.0	91.3	90.4
Pickerington	Fairfield	Urban/Suburban-low pov.	10,326	A+	16.6	90.7	89.2
Hilliard	Franklin	Urban/Suburban-low pov.	14,945	A+	22.4	90.6	88.8
Stow-Munroe Falls	Summit	Urban/Suburban	5,345	A	21.4	90.5	90.2
Willoughby-Eastlake	Lake	Urban/Suburban	8,386	A	33.3	90.1	91.0
Dublin	Franklin	Urban/Suburban-low pov.	13,614	A+	14.0	90.0	91.6
Berea	Cuyahoga	Urban/Suburban	7,017	A	37.5	89.9	89.7
Medina	Medina	Urban/Suburban	7,354	A	15.7	89.6	85.2
Northmont	Montgomery	Urban/Suburban	5,377	A+	29.0	89.4	84.2
Elyria	Lorain	Urban	6,938	B	66.4	82.9	76.4
Huber Hts.	Montgomery	Urban/Suburban	6,178	B	39.5	82.2	79.4
Canton City	Stark	Major Urban	9,750	C	80.6	82.0	80.2
Akron	Summit	Major Urban	22,603	C	84.7	81.5	77.1
Springfield	Clark	Major Urban	7,398	B	76.3	81.3	69.7
Princeton	Hamilton	Urban/Suburban	5,238	B	58.6	81.1	77.4
Hamilton	Butler	Major Urban	9,444	C	69.2	80.7	74.9
Middletown	Butler	Urban	6,540	C	71.5	79.9	73.5
Cleveland Hts.-University Hts.	Cuyahoga	Major Urban	5,907	C	61.3	79.4	72.1
Warren	Trumbull	Major Urban	5,368	D	75.2	79.0	71.2
Reynoldsburg	Franklin	Urban/Suburban	5,811	A	41.6	78.8	72.5
Dayton	Montgomery	Major Urban	14,174	C	92.5	78.5	71.5
Cincinnati	Hamilton	Major Urban	32,009	B	69.7	77.6	72.2
Lorain	Lorain	Major Urban	7,585	C	84.5	77.2	71.8
Euclid	Cuyahoga	Major Urban	5,793	C	66.0	77.1	76.8
Cleveland	Cuyahoga	Major Urban	43,202	D	100.0	76.5	66.1
Columbus	Franklin	Major Urban	49,616	C	81.9	76.5	70.4
Toledo	Lucas	Major Urban	22,277	C	76.6	74.9	60.1
Youngstown	Mahoning	Major Urban	6,088	D	91.9	74.3	65.3
Groveport Madison	Franklin	Urban/Suburban	5,746	A	58.0	74.0	61.0

School building stability

This overview of statewide patterns of building-level stability includes a breakdown of districts by district type and building stability rate (Table 7, Map 2), districts that have both high economic disadvantage and relatively stable building populations (Table 8) and districts that have high building mobility, but also a high district performance rating (Table 9), and districts statewide with the highest and lowest building stability rates (Tables 10 and 11). The tables in this section include only those school buildings in operation during both school years 2009–2010 and 2010–2011.

Table 7. Number of districts by two-year building stability rate, by district type and grade level

District type	Building stability, grades K–7				Building stability, grades 8–11			
	<70%	70–79%	80–89%	90%+	<70%	70–79%	80–89%	90%+
All districts	43	75	368	123	66	228	237	78
Major Urban	14	1	-	-	13	2	-	-
Urban	16	34	45	7	25	46	30	1
Urban/Suburban	4	12	64	27	4	35	50	18
Urban/Suburban-low poverty		2	19	25	1	-	14	31
Rural/Small Town	2	5	49	25	1	20	52	8
Rural/Agricultural	2	11	75	9	11	58	24	4
Rural/Agricultural-low poverty	5	10	116	30	11	67	67	16

Table 8. Highest 10 building stability rates for grades K–7 among districts with high economic disadvantage (1)

District	Primary county	District type	Enrollment	Rating	Economic disadv. (%)	Building stability (%)	
						K–7	8–11
Manchester	Adams	Rural/Agr	842	B	73.2	88.3	70.0
Perry	Allen	Rural/Agr	832	B	71.9	83.3	64.9
Campbell	Mahoning	Urban	1,261	B	78.9	82.9	62.9
Windham	Portage	Urban	655	B	73.3	81.6	71.1
Western	Pike	Rural/Agr	814	C	81.5	79.8	68.7
Alliance	Stark	Urban	2,859	B	77.0	79.5	82.6
Eastern	Pike	Rural/Agr	796	B	73.6	79.0	65.0
Barberton	Summit	Urban	3,676	B	70.7	78.3	78.5
Ashtabula Area	Ashtabula	Urban	3,936	C	71.3	76.9	72.7
New Boston	Scioto	Urban	437	C	81.6	76.8	74.8

(1) Economic disadvantage greater than 70%

Table 9. Districts with low K–7 building stability rates and a district rating of Excellent (A) or better (1)

District	Primary county	District type	Enroll.	Rating	Economic disadv. (%)	Building stability (%)	
						K–7	8–11
Madison	Butler	Urban/Suburban	1,568	A	27.7	39.7	58.5
Reading Community	Hamilton	Urban	1,597	A	38.9	57.5	56.5
Willard	Huron	Rural/Agr-low poverty	1,767	A	57.2	60.6	72.4
Big Walnut	Delaware	Rural/Small Town	2,797	A	18.8	63.9	85.9
Cedar Cliff	Greene	Rural/Small Town	592	A	12.8	64.2	79.9
Southeastern	Clark	Rural/Agr-low poverty	798	A	27.5	65.3	81.4
Osnaburg	Stark	Rural/Agr-low poverty	869	A	41.5	68.5	92.7
Groveport Madison	Franklin	Urban/Suburban	5,746	A	58.0	68.9	54.1
Bloomfield-Mespo	Trumbull	Rural/Agr	297	A	60.7	69.2	67.9

(1) Building stability rate less than 70%

Table 10. All districts: Highest and lowest two-year building stability rates based on grades K–7

District	Primary county	District type	Enroll.	Rating	Economic disadv. (%)	Building stability (%)	
						K–7	8–11
St. Henry	Mercer	Rural/Agr-low poverty	938	A	9.8	98.3	93.2
Western Reserve	Mahoning	Rural/Small Town	752	A	24.2	97.6	82.1
Marion	Mercer	Rural/Agr-low poverty	889	A	5.6	97.2	97.7
Fort Recovery	Mercer	Rural/Agr-low poverty	963	A+	15.6	97.1	94.2
Coldwater	Mercer	Rural/Agr-low poverty	1,410	A	15.4	96.6	93.6
Fort Loramie	Shelby	Rural/Small Town	813	A	8.1	96.4	85.1
New Bremen	Auglaize	Rural/Small Town	832	A	11.6	96.4	94.7
Russia	Shelby	Rural/Small Town	483	A	9.0	96.4	85.6
Kalida	Putnam	Rural/Small Town	609	A	11.8	96.3	93.1
Independence	Cuyahoga	Urban/Suburban	1,101	A	10.3	96.1	94.4
Miller City-New Cleveland	Putnam	Rural/Small Town	448	A	9.5	96.1	98.1
Chagrin Falls	Cuyahoga	Urban/Suburban-low poverty	1,936	A+	<5.0	95.9	94.2
Ottawa Hills	Lucas	Urban/Suburban-low poverty	977	A	<5.0	95.1	93.2
Bay Village	Cuyahoga	Urban/Suburban-low poverty	2,453	A	9.6	95.1	93.7
Anna	Shelby	Rural/Small Town	1,251	A	11.8	95.0	86.2
Minster	Auglaize	Rural/Small Town	835	A+	13.3	94.8	95.9
Kenston	Geauga	Urban/Suburban-low poverty	3,141	A	11.7	94.7	95.4
Ottoville	Putnam	Rural/Small Town	483	A	11.5	94.7	92.2
Orange	Cuyahoga	Urban/Suburban-low poverty	2,203	A+	13.8	94.6	89.3
Madeira	Hamilton	Urban/Suburban-low poverty	1,392	A	8.7	94.5	92.5
Springfield	Clark	Major Urban	7,398	B	76.3	64.7	51.4
East Cleveland	Cuyahoga	Major Urban	3,182	D	88.5	64.6	61.6
Cedar Cliff	Greene	Rural/Small Town	592	A	12.8	64.2	79.9
Big Walnut	Delaware	Rural/Small Town	2,797	A	18.8	63.9	85.9
Warrensville Hts.	Cuyahoga	Urban	1,956	D	60.2	63.6	58.1
Toledo	Lucas	Major Urban	22,277	C	76.6	63.5	49.0
East Liverpool	Columbiana	Urban	2,212	C	56.9	63.1	83.0
Warren	Trumbull	Major Urban	5,368	D	75.2	63.0	65.5
Willard	Huron	Rural/Agr-low poverty	1,767	A	57.2	60.6	72.4
Youngstown	Mahoning	Major Urban	6,088	D	91.9	60.5	55.3
Lorain	Lorain	Major Urban	7,585	C	84.5	60.4	53.9
Mapleton	Ashland	Rural/Agr-low poverty	978	B	34.7	59.7	57.5
Mt. Healthy	Hamilton	Urban	3,567	C	76.1	59.1	58.7
Liberty	Trumbull	Urban	1,427	B	60.2	59.0	77.2
Reading Community	Hamilton	Urban	1,597	A	38.9	57.5	56.5
Niles	Trumbull	Urban	2,770	B	62.3	57.3	74.8
Cleveland	Cuyahoga	Major Urban	43,202	D	>95.0	54.7	57.7
Richmond Hts.	Cuyahoga	Urban/Suburban	889	C	53.0	53.0	71.9
North College Hill	Hamilton	Urban	1,595	C	68.8	47.6	49.8
Madison	Butler	Urban/Suburban	1,568	A	27.7	39.7	58.5

Table 11. Districts over 5,000 enrollment: Highest and lowest two-year building stability rates based on grades K–7

District	Primary county	District type	Enroll.	Rating	Economic disadv. (%)	Building stability (%)	
						K–7	8–11
Upper Arlington	Franklin	Urban/Suburban-low poverty	5,542	A+	<5.0	93.6	95.7
Solon	Cuyahoga	Urban/Suburban-low poverty	5,043	A	9.2	91.7	94.6
Springboro Community	Warren	Urban/Suburban-low poverty	5,493	A+	6.3	91.5	87.2
Mason	Warren	Urban/Suburban-low poverty	10,503	A+	6.4	91.3	67.4
Forest Hills	Hamilton	Urban/Suburban-low poverty	7,351	A+	10.8	91.0	89.5
Jackson	Stark	Urban/Suburban	5,728	A+	17.5	90.6	91.2
Strongsville	Cuyahoga	Urban/Suburban-low poverty	6,515	A	15.3	90.5	92.6
Brunswick	Medina	Urban/Suburban	7,386	A	23.5	89.8	79.2
Oak Hills	Hamilton	Urban/Suburban	7,727	A	6.5	89.1	89.5
Sylvania	Lucas	Urban/Suburban-low poverty	7,312	A	18.0	88.9	90.4
Mentor	Lake	Urban/Suburban	8,156	A	24.7	88.8	90.1
Berea	Cuyahoga	Urban/Suburban	7,017	A	37.5	88.5	89.2
Lebanon	Warren	Urban/Suburban	5,450	A	23.5	87.8	81.5
Dublin	Franklin	Urban/Suburban-low poverty	13,614	A+	14.0	87.6	91.2
Pickerington	Fairfield	Urban/Suburban-low poverty	10,326	A+	16.6	87.5	87.7
Stow-Munroe Falls	Summit	Urban/Suburban	5,345	A	21.4	87.2	90.1
Medina	Medina	Urban/Suburban	7,354	A	15.7	86.8	83.0
Centerville	Montgomery	Urban/Suburban-low poverty	8,035	A+	13.7	86.7	93.6
Austintown	Mahoning	Urban	5,157	B	40.3	86.5	82.4
Lakota	Butler	Urban/Suburban-low poverty	17,409	A+	14.6	86.5	84.5
Reynoldsburg	Franklin	Urban/Suburban	5,811	A	41.6	74.7	62.8
Cleveland Hts.-University Hts.	Cuyahoga	Major Urban	5,907	C	61.3	73.8	66.9
Miamisburg	Montgomery	Urban/Suburban	5,338	A	36.0	71.5	76.1
Groveport Madison	Franklin	Urban/Suburban	5,746	A	58.0	68.9	54.1
Akron	Summit	Major Urban	22,603	C	84.7	68.9	66.2
Dayton	Montgomery	Major Urban	14,174	C	92.5	68.8	64.8
Fairfield	Butler	Urban/Suburban	9,608	B	29.4	68.6	52.6
Euclid	Cuyahoga	Major Urban	5,793	C	66.0	68.6	72.8
Middletown	Butler	Urban	6,540	C	71.5	68.4	69.2
Hamilton	Butler	Major Urban	9,444	C	69.2	68.4	66.2
Canton City	Stark	Major Urban	9,750	C	80.6	68.1	74.6
Washington	Lucas	Urban	6,618	B	53.3	67.7	81.4
Columbus	Franklin	Major Urban	49,616	C	81.9	67.4	61.8
Cincinnati	Hamilton	Major Urban	32,009	B	69.7	65.0	58.7
Springfield	Clark	Major Urban	7,398	B	76.3	64.7	51.4
Toledo	Lucas	Major Urban	22,277	C	76.6	63.5	49.0
Warren	Trumbull	Major Urban	5,368	D	75.2	63.0	65.5
Youngstown	Mahoning	Major Urban	6,088	D	91.9	60.5	55.3
Lorain	Lorain	Major Urban	7,585	C	84.5	60.4	53.9
Cleveland	Cuyahoga	Major Urban	43,202	D	>95.0	54.7	57.7

Map 2. Two-year building stability rates for grades K–7, October 2010–May 2011
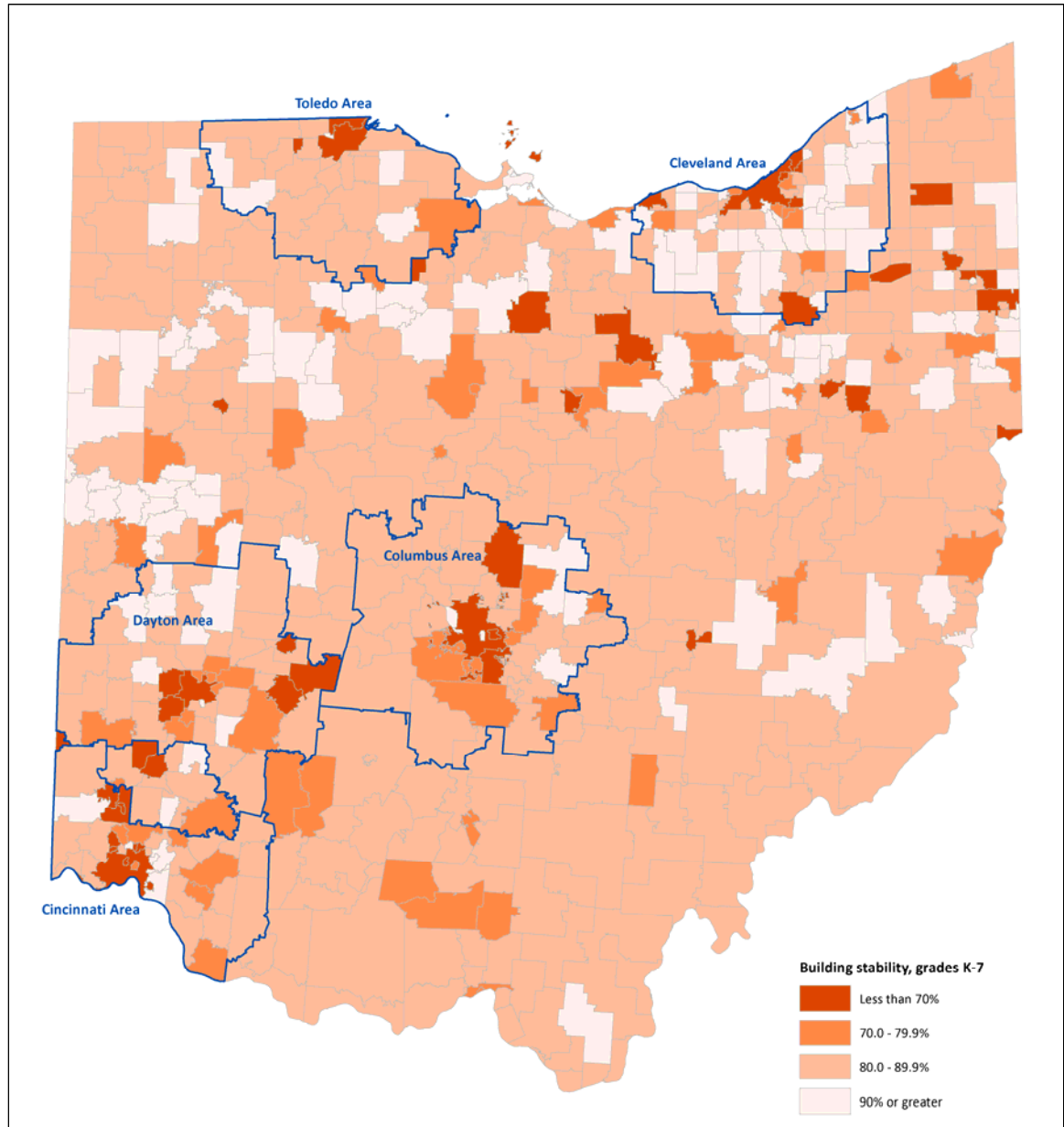
Source: CRP analysis of ODE enrollment records

Building stability for charter schools

Tables 12–15 provide an overview of statewide patterns of stability for public charter schools. This includes stability of physical charter schools (Table 13), e-charters (Table 14), and dropout recovery schools (Table 15). These tables deal with charter schools in operation during both school years 2009–2010 and 2010–2011. Some charter schools are sponsored by, or have a more direct relationship with, public school districts. Dropout recovery schools may be either physical charter schools or e-charter schools.

Table 12. Number of charter schools by two-year stability rate, by charter type and size

Average daily enrollment	Physical charter school				E-charter school			
	<40%	40–59%	60–79%	80%+	<40%	40–59%	60–79%	80%+
All public charters	80	95	82	16	20	6	-	-
Fewer than 100 students	32	16	11	7	6	2	-	-
100–249	31	52	26	3	5	-	-	-
250–499	15	20	33	4	5	-	-	-
500–999	2	5	12	2	1	-	-	-
1000 or more	-	2	-	-	3	4	-	-

Table 13. Highest and lowest two-year stability rates for physical charter schools, excluding dropout recovery schools

School	County	Grade range	Enroll.	Rating	Econ. disadv. (%)	Stability rate (%)
Constellation Schools: Outreach Academy for Students with Disabilities	Cuyahoga	K-12	53	A	19.0	93.1
The Autism Academy Of Learning	Lucas	K-12	51	NA	80.6	93.0
Oakstone Community School	Franklin	K-12	236	A	12.4	90.9
Wickliffe Progressive Community School	Franklin	K-5	456	A+	4.5	90.7
Constellation Schools: Old Brooklyn Community Elem.	Cuyahoga	K-4	290	A	52.3	89.4
Autism Model School	Lucas	K-12	80	NA	47.8	88.6
Toledo School For The Arts	Lucas	6-12	581	A	35.4	87.5
Constellation Schools: Westpark Community Elem.	Cuyahoga	K-4	289	A	55.9	86.4
Summit Academy Secondary - Akron	Summit	8-12	59	C	72.6	85.3
Summit Academy Community School for Alternative Learners of Middletown	Butler	K-10	92	F	60.8	84.6
Mollie Kessler	Mahoning	1-8	64	F	69.8	83.7
Constellation Schools: Parma Community	Cuyahoga	K-12	880	B	53.9	83.5
T.C.P. World Academy	Hamilton	K-6	454	A	83.0	83.5
Educational Academy for Boys & Girls	Franklin	K-12	85	NA	81.5	83.3
L.E.A.R.N. Academy	Trumbull	K-3	154	B	50.7	81.3
Washington Park Community	Cuyahoga	K-8	226	B	82.3	81.1
Springfield Academy Of Excellence	Clark	K-6	215	D	93.9	79.4
Menlo Park Academy	Cuyahoga	K-12	230	A	6.1	79.0
Cincinnati College Preparatory Academy	Hamilton	K-12	660	B	95.0	78.7
Summit Academy Transition High School Dayton	Montgomery	9-12	52	C	50.4	78.1
Meadows Choice Community	Lucas	K-9	147	D	93.6	39.0
Cincinnati Speech & Reading Intervention Center	Hamilton	K-8	301	F	78.4	38.3
Villaview Lighthouse Community School	Cuyahoga	K-9	94	F	95.8	37.2
Providence Academy for Student Success	Franklin	K-12	219	F	91.3	37.2
Arts and Science Preparatory Academy	Cuyahoga	K-12	205	F	91.7	36.9
The Arts Academy West	Cuyahoga	K-12	67	NA	31.7	36.4
Youngstown Academy of Excellence	Mahoning	K-12	140	F	99.0	36.1
Constellation Schools: Mansfield Comm. Middle	Cuyahoga	4-8	87	B	43.6	36.1
Phoenix Village Academy: Secondary I	Cuyahoga	K-12	77	NA	72.4	36.0

School	County	Grade range	Enroll.	Rating	Econ. disadv. (%)	Stability rate (%)
The Maritime Academy of Toledo	Lucas	5-12	224	D	74.7	34.4
Horizon Science Academy-Dayton	Montgomery	K-12	153	C	98.7	32.8
Columbus Preparatory and Fitness Academy	Franklin	K-8	134	D	85.3	31.9
Hope Academy Lincoln Park	Cuyahoga	K-8	222	D	91.5	30.1
Riverside Academy	Hamilton	K-12	243	C	92.8	29.0
Lion of Judah Academy	Cuyahoga	K-8	116	D	99.1	28.6
Victory Academy of Toledo	Lucas	K-8	90	F	95.3	23.4
North Central Academy	Seneca	6-12	52	D	44.7	23.2
Urbana Community School	Champaign	K-12	55	B	<5.0	19.4
Brighten Heights Charter School of Canton	Stark	K-12	356	D	89.4	7.5
Pleasant Community Digital	Marion	K-12	111	NA	34.6	1.1

Note: Tables 13 to 15 are limited to charter schools with average daily enrollment of at least 50 students in school year 2010-2011.

Table 14. Two-year stability rates for E-charter schools, excluding dropout recovery schools

School	Grade range	Enroll.	Rating	Econ. disadv. (%)	Stability rate (%)
Buckeye OnLine School for Success	K-12	1,583	C	51.5	51.7
Ohio Virtual Academy	K-12	9,474	B	55.3	50.9
Ohio Connections Academy, Inc.	K-12	2,676	B	54.1	49.5
Alternative Education Academy	K-12	1,824	D	54.1	47.9
Virtual Community School Of Ohio	K-12	1,339	C	79.2	38.7
Electronic Classroom Of Tomorrow	K-12	10,454	C	76.9	38.4
West Central Learning Academy II	7-12	125	C	65.4	33.3
Newark Digital Academy	K-12	287	D	56.8	31.1
Lorain High School Digital	9-12	109	D	39.2	11.6

Table 15. Highest and lowest two-year stability rates for dropout recovery charter schools

School	County	Grade range	Enroll.	Rating	Econ. disadv. (%)	Stability rate (%)
Youthbuild Columbus Community	Franklin	9-12	234	A	80.6	74.8
Franklin Local Community School	Perry	7-12	78	C	84.4	56.9
Foxfire High School	Muskingum	9-12	268	C	69.4	54.8
Rushmore Academy	Marion	6-12	122	F	70.6	54.8
Cleveland Acad. for Scholarship Tech. and Leadership	Cuyahoga	9-12	283	D	77.1	50.7
Dohn Community	Hamilton	9-12	157	F	83.0	49.3
Schnee Learning Center	Summit	9-12	146	B	31.8	48.1
Massillon Digital Academy, Inc. (E-charter)	Stark	K-12	98	F	<5.0	47.9
Lakewood City Academy	Cuyahoga	K-12	161	B	64.7	44.2
Dayton Technology Design High School	Montgomery	9-12	133	F	87.3	39.8
Life Skills Center Of Akron	Summit	9-12	235	D	93.7	8.3
Life Skills Center of North Akron	Summit	9-12	151	F	79.6	7.7
Life Skills Center Of Cincinnati	Hamilton	9-12	304	F	90.9	7.7
Glass City Academy	Lucas	11-12	137	C	NA	7.6
Life Skills Center Of Youngstown	Mahoning	9-12	264	D	93.9	7.1
Life Skills Center Of Hamilton County	Hamilton	9-12	210	C	90.1	7.0
Life Skills Center Of Lake Erie	Cuyahoga	9-12	339	C	92.4	7.0
Promise Academy	Cuyahoga	9-12	572	C	92.6	6.5
Life Skills Center of Columbus North	Franklin	9-12	207	C	83.2	6.3
Life Skills Center of Elyria	Lorain	9-12	185	D	85.8	6.1

3.3 Churn rate

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

District churn rate

This overview of statewide patterns of district churn rates includes a breakdown of districts by district type and one-year churn rate (Table 16); districts that have both high economic disadvantage and relatively low churn rates (Table 17); districts with high churn, but also a high performance rating (Table 18); and districts statewide with the highest and lowest churn rates (Tables 19 and 20).

Table 16. Number of districts by one-year district churn rate, by district type and grade level

District type	District churn, grades K–8					District churn, grades 9–12				
	<10%	10–14%	15–19%	20–25%	25%+	<10%	10–14%	15–19%	20–25%	25%+
All districts	328	195	60	18	8	350	142	74	28	15
Major Urban		2	11	2				5	6	4
Urban	17	51	19	9	6	24	29	26	15	8
Urban/Suburban	76	25	4	2		76	20	8	3	
Urban/Suburban-low pov.	44	2				44	1			1
Rural/Small Town	66	11	4			65	15	1		
Rural/Agricultural	32	46	15	3	1	36	37	21	2	1
Rural/Agr.-low pov.	93	58	7	2	1	105	40	13	2	1

Table 17. Lowest 10 district churn rates for grades K–7 among districts with high economic disadvantage (1)

District	Primary county	District type	Enroll.	Rating	Economic disadv. (%)	District churn (%)	
						K–7	8–11
Alliance	Stark	Urban	2,859	B	77.0	11.2	15.7
Sandusky	Erie	Urban	3,400	C	75.6	11.8	16.3
Akron	Summit	Major Urban	22,603	C	84.7	12.3	18.2
Ashtabula Area	Ashtabula	Urban	3,936	C	71.3	13.6	16.8
Perry	Allen	Rural/Agr	832	B	71.9	13.8	22.0
Fostoria	Seneca	Urban	1,872	C	76.1	13.9	13.3
Springfield	Clark	Major Urban	7,398	B	76.3	14.5	24.0
Barberton	Summit	Urban	3,676	B	70.7	14.7	12.7
Warren	Trumbull	Major Urban	5,368	D	75.2	15.5	18.8
Canton City	Stark	Major Urban	9,750	C	80.6	15.6	21.3

Note: Here, a high rate of economic disadvantage is greater than 70%.

Table 18. Districts with high K–7 district churn rates and a district rating of Excellent (A) or better (1)

District	Primary county	District type	Enroll.	Rating	Economic disadv. (%)	District churn (%)	
						K–7	8–11
Groveport Madison	Franklin	Urban/Suburban	5,746	A	58.0	21.9	21.7
Willard	Huron	Rural/Agr-low poverty	1,767	A	57.2	21.7	16.7
Batavia	Clermont	Urban/Suburban	2,114	A	44.0	21.3	14.6
Green	Scioto	Rural/Agr	602	A	58.0	20.4	15.7
New Miami	Butler	Urban	770	A	78.4	20.4	24.3
Norwood	Hamilton	Urban	2,171	A	60.4	18.8	21.9
Northridg	Montgomery	Urban	1,627	A	77.9	17.4	26.8
West Carrollton	Montgomery	Urban/Suburban	3,726	A	54.5	17.3	17.4

District	Primary county	District type	Enroll.	Rating	Economic disadv. (%)	District churn (%)	
Woodmore	Ottawa	Rural/Small Town	1,088	A+	23.9	16.5	11.0
Newark	Licking	Urban	6,456	A	57.7	16.3	22.3
Madison	Richland	Urban	3,052	A	57.1	15.8	14.2
North Central	Williams	Rural/Agr-low poverty	621	A	45.1	15.0	10.0

(1) District churn rate greater than 15%

Table 19. All districts: Lowest and highest one-year district churn rates based on grades K–7

| District	Primary county	District type	Enroll.	Rating	Economic disadv. (%)	District churn (%)	
						K–7	8–11
Cuyahoga Hts.	Cuyahoga	Urban/Suburban	906	A	21.3	1.4	1.3
Fort Recovery	Mercer	Rural/Agr-low poverty	963	A+	15.6	1.7	0.9
Kalida	Putnam	Rural/Small Town	609	A	11.8	1.7	4.7
Minster	Auglaize	Rural/Small Town	835	A+	13.3	1.7	3.3
Marion	Mercer	Rural/Agr-low poverty	889	A	5.6	2.0	1.4
Fort Loramie	Shelby	Rural/Small Town	813	A	8.1	2.0	3.9
Bay Village	Cuyahoga	Urban/Suburban-low pov.	2,453	A	9.6	2.2	3.0
St. Henry	Mercer	Rural/Agr-low poverty	938	A	9.8	2.2	1.9
Kirtland	Lake	Urban/Suburban	1,172	A	<5.0	2.3	1.5
Chagrin Falls	Cuyahoga	Urban/Suburban-low pov.	1,936	A+	<5.0	2.5	2.5
Oakwood	Montgomery	Urban/Suburban-low pov.	2,075	A+	<5.0	2.5	4.0
Grandview Hts.	Franklin	Urban/Suburban	1,092	A+	18.0	2.5	2.9
Miller City-New Cleveland	Putnam	Rural/Small Town	448	A	9.5	2.6	1.5
East Holmes	Holmes	Rural/Agr	1,897	A+	35.6	2.6	2.7
Hudson	Summit	Urban/Suburban-low pov.	4,622	A+	<5.0	2.7	2.8
Ottoville	Putnam	Rural/Small Town	483	A	11.5	2.7	2.3
Coldwater	Mercer	Rural/Agr-low poverty	1,410	A	15.4	2.9	3.2
Independence	Cuyahoga	Urban/Suburban	1,101	A	10.3	3.0	1.4
Wyoming	Hamilton	Urban/Suburban-low pov.	1,987	A	6.6	3.0	2.4
Kenston	Geauga	Urban/Suburban-low pov.	3,141	A	11.7	3.0	2.4
Trotwood-Madison	Montgomery	Urban	2,657	C	81.9	20.8	22.0
Upper Scioto Valley	Hardin	Rural/Agr-low poverty	649	B	49.1	20.9	13.4
Batavia	Clermont	Urban/Suburban	2,114	A	44.0	21.3	14.6
Eastern	Pike	Rural/Agr	796	B	73.6	21.7	19.3
Willard	Huron	Rural/Agr-low poverty	1,767	A	57.2	21.7	16.7
Groveport Madison	Franklin	Urban/Suburban	5,746	A	58.0	21.9	21.7
Hamilton	Franklin	Urban	3,005	B	61.6	22.5	21.3
Warrensville Hts.	Cuyahoga	Urban	1,956	D	60.2	22.8	26.9
Mt Healthy	Hamilton	Urban	3,567	C	76.1	22.9	24.1
East Cleveland	Cuyahoga	Major Urban	3,182	D	88.5	23.9	22.9
North College Hill	Hamilton	Urban	1,595	C	68.8	24.4	20.3
Ripley-Union-Lewis-Hunt.	Brown	Rural/Agr	1,124	B	53.8	24.6	18.3
Crestline	Crawford	Urban	702	B	65.1	25.9	22.5
St Bernard-Elmwood Place	Hamilton	Urban	974	B	72.0	26.2	21.1
Liberty	Trumbull	Urban	1,427	B	60.2	26.3	15.7
Western	Pike	Rural/Agr	814	C	81.5	26.4	19.4
Portsmouth	Scioto	Urban	1,987	C	74.1	30.8	33.5
Jefferson Township	Montgomery	Rural/Agr-low poverty	419	D	5.3	33.3	18.7
New Boston	Scioto	Urban	437	C	81.6	34.8	34.5
Lockland	Hamilton	Urban	632	C	62.9	39.7	25.7

Table 20. Districts over 5,000 enrollment: Lowest and highest one-year district churn rates based on grades K–7

District	Primary county	District type	Enroll.	Rating	Economic disadv. (%)	Churn stability (%)	
						K–7	811
Upper Arlington	Franklin	Urban/Suburban-low poverty	5,542	A+	<5.0	3.6	2.5
Solon	Cuyahoga	Urban/Suburban-low poverty	5,043	A	9.2	4.0	2.9
Springboro Community	Warren	Urban/Suburban-low poverty	5,493	A+	6.3	4.0	4.1
Olentangy	Delaware	Urban/Suburban-low poverty	16,263	A+	7.4	4.4	2.8
Strongsville	Cuyahoga	Urban/Suburban-low poverty	6,515	A	15.3	4.8	4.2
Brunswick	Medina	Urban/Suburban	7,386	A	23.5	5.1	6.9
Forest Hills	Hamilton	Urban/Suburban-low poverty	7,351	A+	10.8	5.3	5.6
Medina	Medina	Urban/Suburban	7,354	A	15.7	5.4	7.1
Sylvania	Lucas	Urban/Suburban-low poverty	7,312	A	18.0	5.5	5.0
Mentor	Lake	Urban/Suburban	8,156	A	24.7	5.5	5.9
Oak Hills	Hamilton	Urban/Suburban	7,727	A	6.5	5.8	5.3
Mason	Warren	Urban/Suburban-low poverty	10,503	A+	6.4	5.9	4.5
Stow-Munroe Falls	Summit	Urban/Suburban	5,345	A	21.4	6.2	5.2
Jackson	Stark	Urban/Suburban	5,728	A+	17.5	6.3	5.5
Northmont	Montgomery	Urban/Suburban	5,377	A+	29.0	6.3	7.7
Centerville	Montgomery	Urban/Suburban-low poverty	8,035	A+	13.7	6.6	4.6
Pickerington	Fairfield	Urban/Suburban-low poverty	10,326	A+	16.6	6.7	6.8
Hilliard	Franklin	Urban/Suburban-low poverty	14,945	A+	22.4	6.7	5.9
Willoughby-Eastlake	Lake	Urban/Suburban	8,386	A	33.3	6.8	6.1
Lakota	Butler	Urban/Suburban-low poverty	17,409	A+	14.6	6.9	8.6
Lancaster	Fairfield	Urban	5,966	A	51.6	13.0	16.1
Springfield	Clark	Major Urban	7,398	B	76.3	14.5	24.0
Reynoldsburg	Franklin	Urban/Suburban	5,811	A	41.6	14.5	17.3
South-Western	Franklin	Urban/Suburban	19,336	A	54.6	14.7	17.9
Warren	Trumbull	Major Urban	5,368	D	75.2	15.5	18.8
Canton City	Stark	Major Urban	9,750	C	80.6	15.6	21.3
Cleveland Hts.-University Hts.	Cuyahoga	Major Urban	5,907	C	61.3	15.8	22.7
Cleveland	Cuyahoga	Major Urban	43,202	D	>95.0	16.2	30.8
Cincinnati	Hamilton	Major Urban	32,009	B	69.7	16.2	15.2
Newark	Licking	Urban	6,456	A	57.7	16.3	22.3
Princeton	Hamilton	Urban/Suburban	5,238	B	58.6	16.3	20.8
Toledo	Lucas	Major Urban	22,277	C	76.6	16.5	31.1
Euclid	Cuyahoga	Major Urban	5,793	C	66.0	16.9	16.4
Middletown	Butler	Urban	6,540	C	71.5	17.7	23.7
Dayton	Montgomery	Major Urban	14,174	C	92.5	18.2	19.4
Columbus	Franklin	Major Urban	49,616	C	81.9	18.5	23.5
Hamilton	Butler	Major Urban	9,444	C	69.2	18.7	22.4
Lorain	Lorain	Major Urban	7,585	C	84.5	19.8	25.6
Youngstown	Mahoning	Major Urban	6,088	D	91.9	20.4	27.4
Groveport Madison	Franklin	Urban/Suburban	5,746	A	58.0	21.9	21.7

Map 3. One-year churn rate for grades 9–12, school year 2010–2011
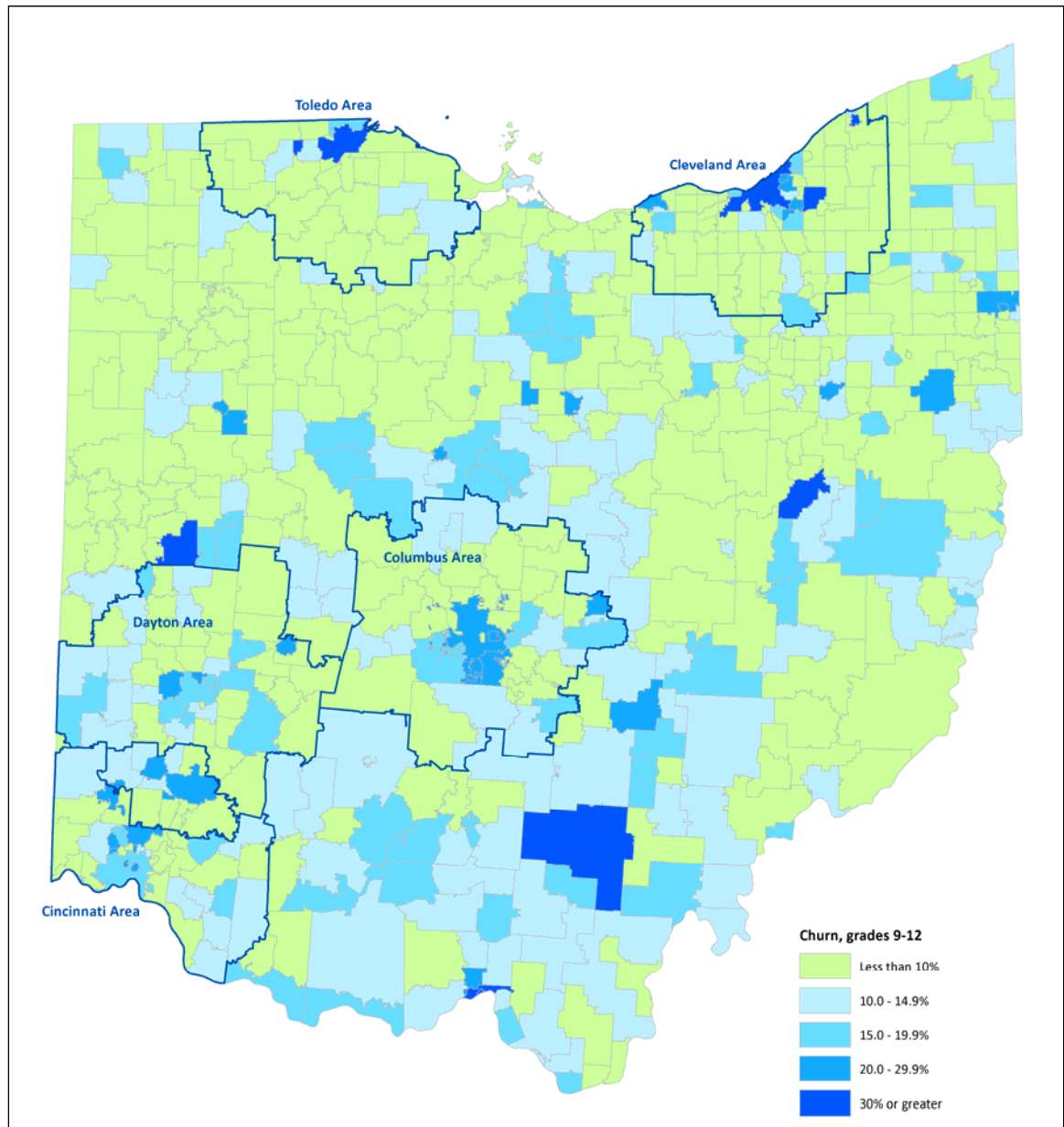
Source: CRP analysis of ODE enrollment records

Churn for charter schools

Tables 21–24 provide an overview of statewide patterns of stability for public charter schools. This includes stability of physical charter schools (Table 22), e-charters (Table 23), and dropout recovery schools (Table 24). Some charter schools are sponsored by, or have a more direct relationship with, public school districts. Dropout recovery schools may be either physical charter schools or e-charter schools.

Table 21. Number of charter schools by one-year churn rate, by charter type and size

Average daily enrollment	Physical charter school					E-charter school				
	<20%	20–39%	40–59%	60–99%	100%+	<20%	20–39%	40–59%	60–99%	100%+
All public charters	122	76	29	25	60	-	-	2	4	20
Fewer than 100 students	29	14	8	13	26	-	-	-	1	7
100–249	43	34	18	9	20	-	-	-	-	5
250–499	36	22	1	3	12	-	-	-	1	4
500–999	14	5	-	-	2	-	-	-	-	1
1000 or more	-	1	2	-	-	-	-	2	2	3

Table 22. Highest and lowest churn rates for physical charter schools, excluding dropout recovery schools

School	County	Grade range	Enroll.	Rating	Econ. disadv. (%)	Churn rate (%)
W. C. Cupe College Preparatory School	Franklin	K-12	101	NA	73.2	0.0
L.E.A.D. Academy	Trumbull	7-12	96	A	46.5	0.0
Toledo School For The Arts	Lucas	6-12	581	A	35.4	1.5
The Autism Academy Of Learning	Lucas	K-12	51	NA	80.6	1.9
L.E.A.R.N. Academy	Trumbull	K-3	154	B	50.7	2.5
Constellation Schools: Parma Community	Cuyahoga	K-12	880	B	53.9	3.0
Constellation Schools: Old Brooklyn Comm. Middle	Cuyahoga	5-9	158	A+	57.2	3.1
Constellation Schools: Elyria Community Elementary	Lorain	K-9	262	B	60.3	3.4
T.C.P. World Academy	Hamilton	K-6	454	A	83.0	3.6
Constellation Schools: Westpark Comm. Elementary	Cuyahoga	K-4	289	A	55.9	3.8
Cincinnati College Preparatory Academy	Hamilton	K-12	660	B	95.0	3.8
Citizens Academy	Cuyahoga	K-8	408	A	78.3	4.2
Wickliffe Progressive Community School	Franklin	K-5	456	A+	4.5	4.3
Constellation Schools: Old Brooklyn Comm. Elem.	Cuyahoga	K-4	290	A	52.3	4.8
Summit Academy-Xenia	Greene	K-10	63	D	60.5	4.8
Dixon Early Learning Center Conversion Community	Columbiana	K-3	75	NA	34.3	5.4
Richard Allen Preparatory	Montgomery	K-12	224	NA	79.9	5.7
Washington Park Community	Cuyahoga	K-8	226	B	82.3	5.7
Dayton Early College Academy, Inc.	Montgomery	7-12	390	A+	78.4	5.8
Hope Academy Northwest Campus	Cuyahoga	K-12	405	C	94.8	6.3
Pleasant Community Digital	Marion	K-12	111	NA	34.6	50.0
Premier Academy of Ohio	Franklin	7-12	210	D	94.8	54.6
New Choices Community School	Montgomery	7-12	149	C	54.9	55.2
Theodore Roosevelt Public Community School	Hamilton	K-12	209	F	91.2	56.6
Horizon Science Academy Toledo Downtown	Cuyahoga	K-12	108	D	92.2	59.6
Victory Academy of Toledo	Lucas	K-8	90	F	95.3	63.0
Gahanna Alternative Community School	Franklin	5-12	123	B	38.1	63.8
Scholarts Preparatory and Career Center for Children	Franklin	K-12	179	F	45.4	64.4
Zenith Academy East	Franklin	K-8	101	NA	95.2	67.1
Ashland County Community Academy	Ashland	9-12	108	D	33.1	70.9
Virtual Schoolhouse, Inc.	Cuyahoga	K-12	325	F	88.1	71.0

School	County	Grade range	Enroll.	Rating	Econ. disadv. (%)	Churn rate (%)
Summit Academy Secondary - Youngstown	Mahoning	8-12	101	F	77.9	73.1
North Central Academy	Seneca	6-12	52	D	44.7	81.4
Crittenton Community School	Franklin	6-9	97	F	89.4	95.1
The Arts Academy West	Cuyahoga	K-12	67	NA	31.7	103.7
Brighten Heights Charter School of Canton	Stark	K-12	356	D	89.4	106.3
Notten School for Science, Technology, Engineering and Mathematics	Franklin	K-12	67	NA	73.9	110.2
Summit Academy Community School-Parma	Cuyahoga	K-12	196	F	67.3	125.7
Urbana Community School	Champaign	K-12	55	B	<5.0	127.7
Learning without Limits, A TRECA Academy	Marion	9-12	50	NA	<5.0	215.6

Note: Tables 22 to 24 are limited to schools with average daily enrollment of at least 100 students in school year 2010-2011.

Table 23. Churn rates for E-charter schools, excluding dropout recovery schools

School	Grade range	Enroll.	Rating	Econ. disadv. (%)	Churn rate (%)
Buckeye OnLine School for Success	K-12	1,583	C	51.5	42.7
Ohio Virtual Academy	K-12	9,474	B	55.3	47.0
Alternative Education Academy	K-12	1,824	D	54.1	71.8
Ohio Connections Academy, Inc	K-12	2,676	B	54.1	76.3
West Central Learning Academy II	7-12	125	C	65.4	117.9
Newark Digital Academy	K-12	287	D	56.8	123.9
Lorain High School Digital	9-12	109	D	39.2	132.8
Virtual Community School Of Ohio	K-12	1,339	C	79.2	132.8
Electronic Classroom Of Tomorrow	K-12	10,454	C	76.9	145.7

Table 24. Highest and lowest churn rates for dropout recovery charter schools

School	County	Grade range	Enroll.	Rating	Econ. disadv. (%)	Churn rate (%)
Frederick Douglass Reclamation Academy	Cuyahoga	8-12	88	NA	84.2	6.0
The Arch Academy	Franklin	8-12	84	NA	89.8	11.8
New Beginnings Academy	Franklin	8-12	61	NA	88.1	14.3
Youthbuild Columbus Community	Franklin	9-12	234	A	80.6	21.5
Langston Hughes High School	Cuyahoga	8-12	149	F	54.0	46.4
Cleveland Academy for Scholarship Technology and Leadership	Cuyahoga	9-12	283	D	77.1	50.0
Lakewood City Academy	Cuyahoga	K-12	161	B	64.7	54.2
Dayton Technology Design High School	Montgomery	9-12	133	F	87.3	54.5
Foxfire High School	Muskingum	9-12	268	C	69.4	61.1
General Chappie James Leadership Academy	Montgomery	9-12	120	C	60.7	63.7
The ISUS Institute of Health Care	Montgomery	9-12	75	A	93.3	197.3
Life Skills Ctr Of Cleveland	Cuyahoga	9-12	298	F	94.4	200.8
Life Skills Center of Elyria	Lorain	9-12	185	D	85.8	204.1
Lancaster Digital Academy (E-charter)	Fairfield	K-12	97	NA	70.6	205.2
Life Skills Of Northeast Ohio	Cuyahoga	9-12	374	F	81.4	205.3
Marion City Digital Academy (E-charter)	Marion	K-12	169	F	67.7	207.4
Life Skills Center of Dayton	Montgomery	9-12	353	F	89.6	227.2
Life Skills Center of Columbus Southeast	Franklin	9-12	276	C	79.4	229.3
Mahoning Unlimited Classroom (E-Charter)	Mahoning	4-12	183	C	71.6	323.3
Mansfield Enhancement Academy	Richland	9-12	52	NA	73.6	344.2

4.0 Policy related issues

4.1 Open enrollment

Where are public school students in Ohio using inter-district open enrollment?

This section provides a statewide overview of inter-district open enrollment for school year 2010–2011, including the amount of district outward open enrollment (Tables 25 and 26, Map 4); district inward open enrollment (Tables 27 and 28, Map 5); and the most common residing/attending pairs of districts for open enrollment.

Inter-district open enrollment into district

Table 25. Districts with largest percentage of attending students who are open enrollees residing in another district, school year 2010–2011

District	County	Rating	Econ. Disadv. (%)	Total attending	Open enroll. in #	Open enroll. in %
Perry	Allen	B	71.9	882	395	44.8
New Boston	Scioto	C	81.6	508	221	43.5
Fairlawn	Shelby	A+	39.7	641	244	38.1
Lowellville	Mahoning	A	34.1	598	227	38.0
Coventry	Summit	A	42.9	2,365	894	37.8
Clay	Scioto	B	18.7	632	235	37.2
Hopewell-Loudon	Seneca	A	27.3	879	307	34.9
Old Fort	Seneca	A	27.1	474	162	34.2
Crestview	Columbiana	A	40.8	1,230	401	32.6
Botkins	Shelby	A	21.8	595	190	31.9
Pettisville	Fulton	A	23.4	511	160	31.3
Clearview	Lorain	B	38.8	1,812	549	30.3
Ayersville	Defiance	A	30.2	824	242	29.4
Lincolnview	Van Wert	A	39.3	876	246	28.1
Ridgedale	Marion	C	46.8	800	221	27.6
Weathersfield	Trumbull	B	38.4	1,011	277	27.4
Pleasant	Marion	B	23.6	1,318	351	26.6
Fairport Harbor	Lake	B	<5.0	553	145	26.2
Franklin Monroe	Darke	A	21.9	745	195	26.2
Mogadore	Summit	B	27.2	904	231	25.6
Shadyside	Belmont	B	29.2	830	192	23.1
River Valley	Marion	B	32.0	2,149	489	22.8
Steubenville	Jefferson	A	66.0	2,357	535	22.7
Ridgemont	Hardin	B	37.1	554	125	22.6
Union-Scioto	Ross	B	45.8	2,260	492	21.8
Vanlue	Hancock	B	25.7	260	55	21.2
Wheelersburg	Scioto	A	38.2	1,590	336	21.1
East Cleveland	Cuyahoga	D	88.5	3,669	743	20.3
Norton	Summit	A	29.1	2,686	539	20.1
Valley	Scioto	A	60.7	1,113	222	19.9

Source: CRP analysis of ODE enrollment records

Table 26. Districts with largest number of attending students who are open enrollees residing in another district, school year 2010–2011

District	County	Rating	Econ. Disadv. (%)	Total attending	Open enroll. in #	Open enroll. in %
Coventry	Summit	A	42.9	2,365	894	37.8
Columbus	Franklin	C	81.9	54,052	784	1.5
East Cleveland	Cuyahoga	D	88.5	3,669	743	20.3
Clearview	Lorain	B	38.8	1,812	549	30.3
Akron	Summit	C	84.7	24,128	544	2.3
Norton	Summit	A	29.1	2,686	539	20.1
Steubenville	Jefferson	A	66.0	2,357	535	22.7
Union-Scioto	Ross	B	45.8	2,260	492	21.8
River Valley	Marion	B	32.0	2,149	489	22.8
Perkins	Erie	B	30.6	2,379	456	19.2
Cleveland	Cuyahoga	D	100	49,455	448	0.9
Maysville	Muskingum	B	53.5	2,216	438	19.8
Athens	Athens	A	34.1	2,864	431	15.0
Crestview	Columbiana	A	40.8	1,230	401	32.6
Perry	Allen	B	71.9	882	395	44.8
Austintown	Mahoning	B	40.3	5,230	368	7.0
Springfield	Summit	A	51.7	2,455	364	14.8
Pleasant	Marion	B	23.6	1,318	351	26.6
Indian Creek	Jefferson	B	52.0	2,230	344	15.4
Marion	Marion	C	69.0	4,468	341	7.6
Clark-Shawnee	Clark	A+	33.7	2,232	340	15.2
Wheelersburg	Scioto	A	38.2	1,590	336	21.1
Midview	Lorain	B	34.0	3,439	330	9.6
Hopewell-Loudon	Seneca	A	27.3	879	307	34.9
Cuyahoga Falls	Summit	A	36.8	5,125	302	5.9
Minford	Scioto	A	42.8	1,566	293	18.7
Indian Valley	Tuscarawas	B	50.7	1,881	291	15.5
Perry	Stark	A	37.6	5,016	288	5.7
Northeastern	Clark	A+	25.9	3,690	283	7.7
Kent	Portage	B	41.7	3,706	282	7.6

Source: CRP analysis of ODE enrollment records

Map 4. Percentage of attending students who are open enrollees residing in another district, school year 2010–2011
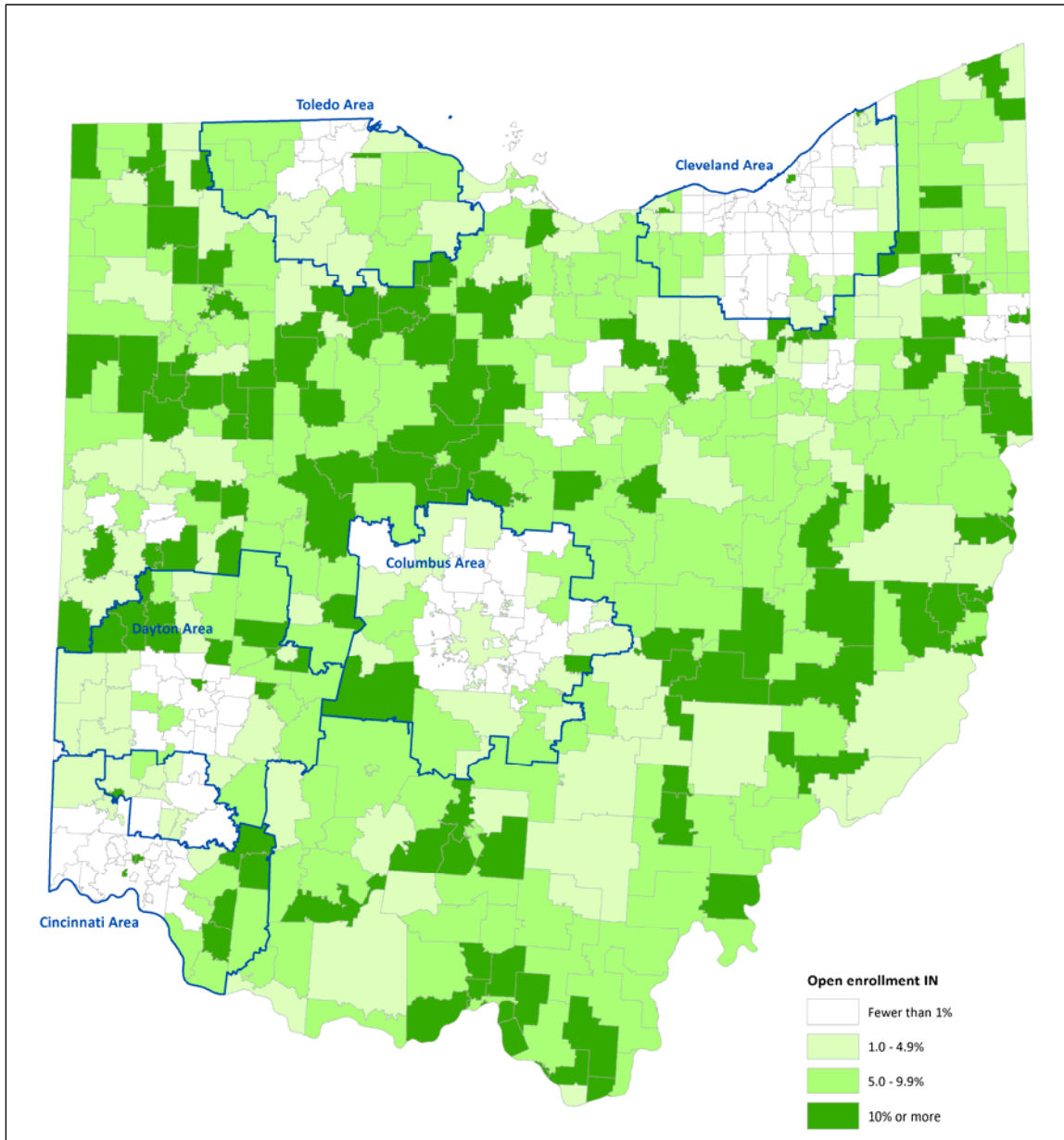
Source: CRP analysis of ODE enrollment records

Inter-district open enrollment out of district

Table 27. Districts with largest percentage of public school students residing in district who attended another district through open enrollment, school year 2010–2011

District	County	Rating	Econ. Disadv. (%)	Total residents	Open enroll. out #	Open enroll. out %
Clay	Scioto	B	18.7	543	134	24.7
Bettsville	Seneca	B	56.7	213	47	22.1
Vanlue	Hancock	B	25.7	268	59	22.0
Portsmouth	Scioto	C	74.1	3,230	683	21.1
New Boston	Scioto	C	81.6	408	81	19.9
Federal Hocking	Athens	B	64.4	1,339	264	19.7
Ridgedale	Marion	C	46.8	812	153	18.8
Buckeye Central	Crawford	A	40.6	930	175	18.8
Bloomfield-Mespo	Trumbull	A	60.7	330	61	18.5
Green	Scioto	A	58.0	697	126	18.1
Indian Creek	Jefferson	B	52.0	2,493	440	17.6
Harrison Hills	Harrison	B	50.5	2,111	360	17.1
Old Fort	Seneca	A	27.1	393	67	17.0
Lincolnview	Van Wert	A	39.3	771	131	17.0
Bridgeport	Belmont	B	50.5	881	146	16.6
East Knox	Knox	B	38.9	1,509	248	16.4
Bright	Highland	B	53.1	853	140	16.4
Chillicothe	Ross	B	60.2	3,678	601	16.3
West Muskingum	Muskingum	A	40.4	1,804	293	16.2
Eastern	Pike	B	73.6	987	160	16.2
Zanesville	Muskingum	C	64.6	4,847	779	16.1
Pleasant	Marion	B	23.6	1,384	221	16.0
Southern	Columbiana	B	55.8	1,096	174	15.9
Marion	Marion	C	69.0	5,666	874	15.4
Upper Scioto Valley	Hardin	B	49.1	808	124	15.3
North Central	Williams	A	45.1	757	115	15.2
Lima	Allen	C	80.8	5,513	837	15.2
Conotton Valley Union	Carroll	B	51.0	598	89	14.9
Van Wert	Van Wert	A+	46.0	2,392	355	14.8
Columbiana	Columbiana	A	34.9	1,073	157	14.6

Source: CRP analysis of ODE enrollment records

Table 28. Districts with largest number of public school residents attending another district through open enrollment, school year 2010–2011

District	County	Rating	Econ. Disadv. (%)	Total residents	Open enroll. out #	Open enroll. out %
Akron	Summit	C	84.7	29,021	1,698	5.9
Youngstown	Mahoning	D	91.9	10,575	961	9.1
Marion	Marion	C	69.0	5,666	874	15.4
Lima	Allen	C	80.8	5,513	837	15.2
Lorain	Lorain	C	84.5	10,350	808	7.8
Zanesville	Muskingum	C	64.6	4,847	779	16.1
Cleveland	Cuyahoga	D	100	66,393	729	1.1
Springfield	Clark	B	76.3	9,466	718	7.6
Portsmouth	Scioto	C	74.1	3,230	683	21.1
Chillicothe	Ross	B	60.2	3,678	601	16.3
Sandusky	Erie	C	75.6	4,109	485	11.8
Ashtabula Area	Ashtabula	C	71.3	4,767	472	9.9
Barberton	Summit	B	70.7	4,437	469	10.6
Sidney	Shelby	C	54.2	4,371	448	10.2
Indian Creek	Jefferson	B	52.0	2,493	440	17.6
Elyria	Lorain	B	66.4	8,231	425	5.2
Warren	Trumbull	D	75.2	6,943	399	5.7
Harrison Hills	Harrison	B	50.5	2,111	360	17.1
Van Wert	Van Wert	A+	46.0	2,392	355	14.8
South-Western	Franklin	A	54.6	23,751	349	1.5
Springfield	Summit	A	51.7	2,634	343	13.0
Findlay	Hancock	A	41.0	6,278	336	5.4
Greenville	Darke	A	45.3	3,325	330	9.9
Lancaster	Fairfield	A	51.6	6,827	326	4.8
Toledo	Lucas	C	76.6	34,577	309	0.9
Elida	Allen	B	47.0	2,802	307	11.0
Canton City	Stark	C	80.6	11,610	305	2.6
Western Brown	Brown	B	50.0	3,715	304	8.2
Miami Trace	Fayette	A	42.4	2,797	297	10.6
Edison	Jefferson	A	42.5	2,248	296	13.2

Source: CRP analysis of ODE enrollment records

Map 5. Percentage of public school students residing in district who attended another district through open enrollment, school year 2010–2011
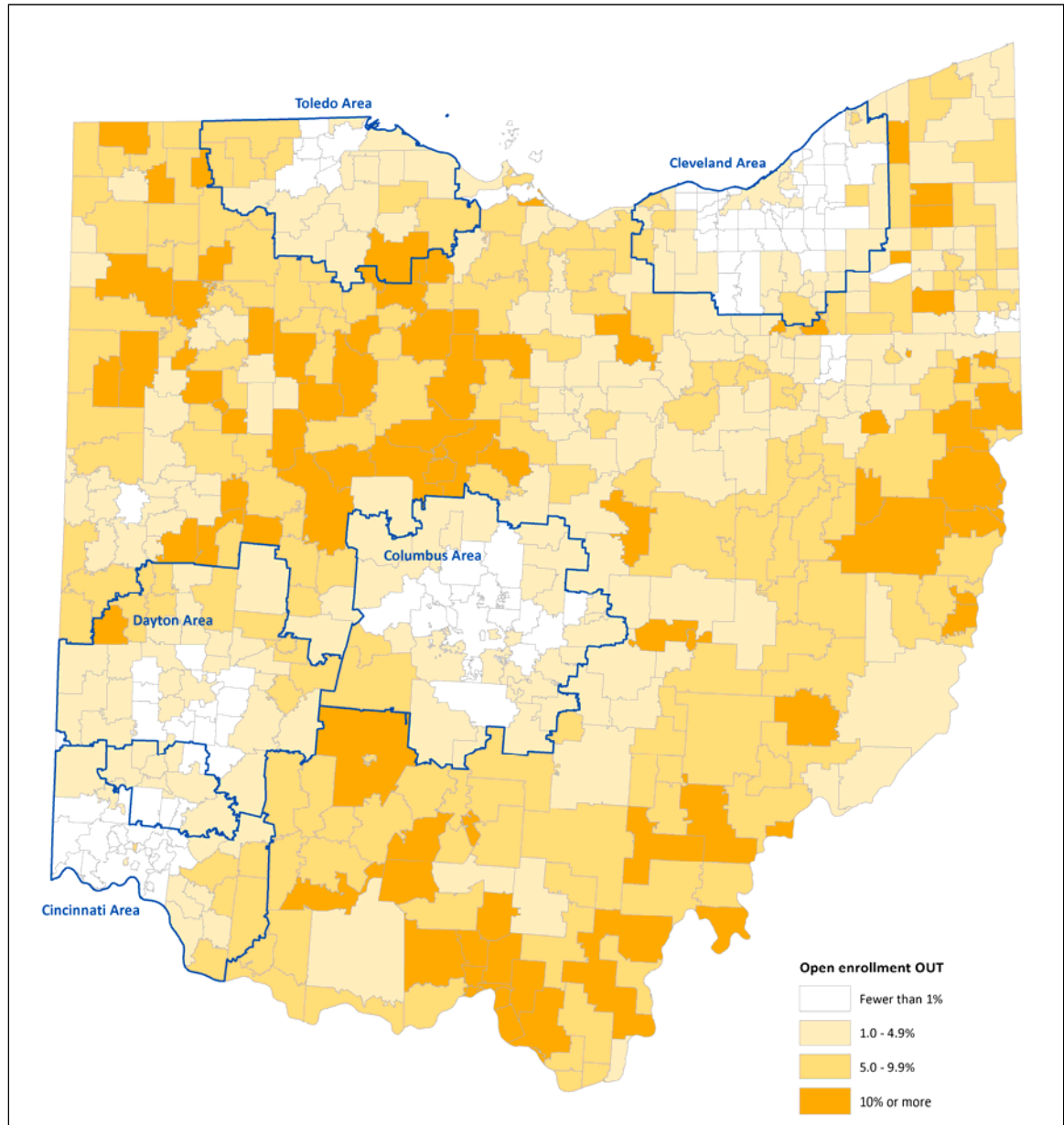
Source: CRP analysis of ODE enrollment records

Open enrollment district pairs

Table 29. Districts pairs with largest number of students residing in one district and attending another through open enrollment policy, school year 2010–2011

Open enrollees	District of residence			District of enrollment		
	District	Rating	Econ. Disadv. (%)	District	Rating	Econ. Disadv. (%)
706	Akron	C	84.7	Coventry	A	42.9
700	Cleveland	D	95.5	East Cleveland	D	88.5
498	Lorain	C	84.5	Clearview	B	38.8
394	Sandusky	C	75.6	Perkins	B	30.6
365	Indian Creek	B	52.0	Steubenville	A	66.0
343	Chillicothe	B	60.2	Union-Scioto	B	45.8
337	Barberton	B	70.7	Norton	A	29.1
328	Youngstown	D	91.9	Austintown	B	40.3
314	Lima	C	80.8	Perry-Allen County	B	71.9
298	Marion-Marion County	C	69.0	River Valley	B	32.0
295	Zanesville	C	64.6	Maysville	B	53.5
286	Akron	C	84.7	Springfield-Summit County	A	51.7
273	Springfield-Clark County	B	76.3	Clark-Shawnee	A+	33.7
252	Elyria	B	66.4	Midview	B	34.0
245	Marion-Marion County	C	69.0	Pleasant	B	23.6
220	Van Wert	A+	46.0	Lincolnview	A	39.3
215	South-Western	A	54.6	Columbus	C	81.9
211	Lima	C	80.8	Elida	B	47.0
208	Sidney	C	54.2	Fairlawn	A+	39.7
205	Ashtabula Area	C	71.3	Geneva Area	B	52.6
203	Gallia County	A	50.5	Gallipolis	B	34.0
202	Akron	C	84.7	Cuyahoga Falls	A	36.8
201	Alexander	A	50.8	Athens	A	34.1
199	Miami Trace	A	42.4	Washington Court House	A	54.4
193	Springfield-Clark County	B	76.3	Northeastern-Clark County	A+	25.9
188	Mansfield	C	84.1	Madison-Richland County	A	57.1
187	East Liverpool	C	56.9	Beaver	A	45.5
185	Youngstown	D	91.9	Struthers	B	63.8
180	Washington Court House	A	54.4	Miami Trace	A	42.4
179	Steubenville	A	66.0	Indian Creek	B	52.0

Source: CRP analysis of ODE enrollment records

4.2   Monthly enrollment changes

How would public district enrollment counts be affected by monthly reporting?

The enrollment for October Count Week was derived from student-level records of active enrollment in district on October 8, 2010. Point-in-time enrollment is calculated on the 23rd day of each month during the school year from September 2010 to May 2011 to emulate the monthly reporting procedure required of publicly funded charter schools. Table 30 lists the districts with the largest numeric difference in enrollment when comparing October Count Week to an academic year monthly average, and Table 30 lists districts with the largest percentage difference.

Table 30. Districts with largest difference between October Count Week and average point-in-time K–12 enrollment on the 23rd of each month from September 2010 to May 2011

District	County	October Count Week	September– May average	Difference #	Difference %
Toledo	Lucas	23,871	22,918	-953	-4.0
Cleveland	Cuyahoga	43,506	42,797	-709	-1.6
Columbus	Franklin	48,966	48,493	-473	-1.0
Cincinnati	Hamilton	31,904	31,592	-312	-1.0
Akron	Summit	22,435	22,180	-255	-1.1
South-Western	Franklin	19,986	19,811	-175	-0.9
Lakota	Butler	17,722	17,560	-162	-0.9
Hamilton	Butler	9,357	9,201	-156	-1.7
Middletown	Butler	6,454	6,316	-138	-2.1
Dayton	Montgomery	14,084	13,965	-119	-0.8
Elyria	Lorain	6,774	6,675	-99	-1.5
Lorain	Lorain	7,464	7,367	-97	-1.3
Willard	Huron	1,725	1,641	-84	-4.9
Mansfield	Richland	3,468	3,385	-83	-2.4
Parma	Cuyahoga	11,684	11,608	-76	-0.7
Washington	Lucas	6,658	6,583	-75	-1.1
Olentangy	Delaware	15,643	15,718	**+75**	**+0.5**
Findlay	Hancock	5,857	5,788	-69	-1.2
Fremont	Sandusky	4,089	4,023	-66	-1.6
Warrensville Hts.	Cuyahoga	2,028	1,963	-65	-3.2
Kettering	Montgomery	7,306	7,245	-61	-0.8
East Cleveland	Cuyahoga	3,237	3,177	-60	-1.9
Wooster	Wayne	3,618	3,558	-60	-1.7
Worthington	Franklin	9,029	8,969	-60	-0.7
Marion	Marion	4,121	4,062	-59	-1.4
Miamisburg	Montgomery	5,451	5,394	-57	-1.0
Sidney	Shelby	3,661	3,606	-55	-1.5
Princeton	Hamilton	5,196	5,142	-54	-1.0
Lakewood	Cuyahoga	5,739	5,685	-54	-0.9
Canton City	Stark	9,765	9,712	-53	-0.5

Source: CRP analysis of ODE enrollment records

Table 31. Districts with largest percentage difference between October count week and average point-in-time K–12 enrollment on the 23rd of each month from September 2010 to May 2011

District	County	October Count Week	September–May average	Difference #	Difference %
Willard	Huron	1,725	1,641	-84	-4.9
Toledo	Lucas	23,871	22,918	-953	-4.0
Woodmore	Ottawa	1,066	1,030	-36	-3.4
Warrensville Hts.	Cuyahoga	2,028	1,963	-65	-3.2
Buckeye Central	Crawford	676	655	-21	-3.1
Southern	Perry	763	741	-22	-2.9
Northridge	Montgomery	1,691	1,644	-47	-2.8
Continental	Putnam	495	482	-13	-2.7
St Bernard-Elmwood Place	Hamilton	904	881	-23	-2.6
Federal Hocking	Athens	997	971	-26	-2.6
Danville	Knox	659	643	-16	-2.4
Mansfield	Richland	3,468	3,385	-83	-2.4
Brown	Carroll	639	624	-15	-2.3
Richmond Hts.	Cuyahoga	927	906	-21	-2.2
East Liverpool	Columbiana	2,218	2,169	-49	-2.2
Conotton Valley Union	Carroll	510	499	-11	-2.2
Perry	Allen	812	794	-18	-2.2
Middletown	Butler	6,454	6,316	-138	-2.1
Elida	Allen	2,396	2,345	-51	-2.1
Norwood	Hamilton	2,127	2,082	-45	-2.1
Old Fort	Seneca	451	441	-10	-2.1
Valley	Scioto	1,048	1,026	-22	-2.1
Heath	Licking	1,678	1,644	-34	-2.1
Morgan	Morgan	2,073	2,031	-42	-2.0
Marlington	Stark	2,519	2,470	-49	-1.9
United	Columbiana	1,308	1,283	-25	-1.9
Steubenville	Jefferson	2,200	2,158	-42	-1.9
Cardinal	Geauga	1,303	1,279	-24	-1.9
Jackson Center	Shelby	525	515	-10	-1.9
East Cleveland	Cuyahoga	3,237	3,177	-60	-1.9

Source: CRP analysis of ODE enrollment records

4.3   Achievement test roll-up

How many test-takers have achievement test scores "rolled-up" to the state level due to not being continuously enrolled in the district since October 31st?

Among the 756,000 students in grades 3 to 8 in an Ohio public school district and taking the (standard format) Ohio Achievement Assessment for Mathematics in the spring of 2011, 34,000 or 4.5% had their scores "rolled-up" to the state level, and consequently, did not factor into a specific district's proficiency rate. Another 6,800 students were rolled-up to the district level, and did not factor into the proficiency calculation of an individual school within a district. Table 32 lists the districts with the highest percentage of tests rolled-up to the state level.

Table 32. Largest percentage of a reporting district's OAA Math test-takers in grades 3–8 whose scores were rolled up to the state level, spring 2011

Reporting district	County	Rating	Econ. disadv. (%)	Test-takers	State roll-up (%)
Lockland	Hamilton	C	62.9	261	22.2
Jefferson Township	Montgomery	D	5.3	165	17.6
Cleveland	Cuyahoga	D	>95.0	19,403	14.2
New Boston	Scioto	C	81.6	213	14.1
Portsmouth	Scioto	C	74.1	955	13.2
Western	Pike	C	81.5	404	12.6
Campbell	Mahoning	B	78.9	594	12.5
Trotwood-Madison	Montgomery	C	81.9	1,249	12.4
Crestline	Crawford	B	65.1	326	11.7
Mt. Healthy	Hamilton	C	76.1	1,735	11.1
East Cleveland	Cuyahoga	D	88.5	1,285	10.2
Columbus	Franklin	C	81.9	22,538	10.1
St. Bernard-Elmwood Place	Hamilton	B	72.0	409	10.0
Windham	Portage	B	73.3	310	10.0
Winton Woods	Hamilton	C	57.7	1,542	9.7
Batavia	Clermont	A	44.0	980	9.6
Garfield Hts.	Cuyahoga	C	64.7	1,831	9.6
Green	Scioto	A	58.0	281	9.3
Warrensville Hts.	Cuyahoga	D	60.2	808	9.0
New Miami	Butler	A	78.4	355	9.0
North College Hill	Hamilton	C	68.8	707	8.9
Liberty	Trumbull	B	60.2	442	8.8
Toledo	Lucas	C	76.6	10,446	8.7
Ripley-Union-Lewis-Huntington	Brown	B	53.8	529	8.7
Groveport Madison	Franklin	A	58.0	2,668	8.7
Lorain	Lorain	C	84.5	3,373	8.5
Upper Scioto Valley	Hardin	B	49.1	294	8.5
Wellston	Jackson	B	59.6	717	8.4
Maple Hts.	Cuyahoga	B	70.8	1,809	8.3
Lima	Allen	C	80.8	1,835	8.3
Hamilton	Franklin	B	61.6	1,500	8.3
Youngstown	Mahoning	D	91.9	2,639	8.2
Whitehall	Franklin	C	75.7	1,318	8.2
Hamilton	Butler	C	69.2	4,209	8.2
Cincinnati	Hamilton	B	69.7	13,873	8.1
Scioto Valley	Pike	C	54.4	685	8.0
Northridge	Montgomery	A	77.9	761	7.9
Dayton	Montgomery	C	92.5	6,522	7.9
Mansfield	Richland	C	84.1	1,484	7.7
Felicity-Franklin	Clermont	B	53.7	501	7.6

Ohio Student Mobility Research Project
Cincinnati Area Profile

November 2012

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Summary

Student mobility is the phenomenon of students in grades K-12 changing schools for reasons other than customary promotion from elementary to middle school and middle to high school. This change may happen during the school year or over the summer. Mobility has consequences for schools, students, communities, and public policy. Research has found that students who change schools most frequently have worse educational outcomes.

In 2011, Community Research Partners and the Thomas B. Fordham Institute entered into a partnership to conduct research on student mobility in Ohio. The research analyzes more than five million student records over two school years to provide a picture of student mobility for all Ohio public districts and buildings and public charter schools, with in-depth analysis for the Columbus, Cincinnati, Cleveland, Dayton, and Toledo areas.

The Cincinnati Area Profile

The Cincinnati Area Profile focuses on the mobility of 32,009 Cincinnati Public Schools (CPS) students and that of the more than 200,000 students in the other 49 public districts, 69 physical charter schools, and e-charters in an approximate 30 mile radius of CPS (the research includes only Ohio schools and students). For analysis purposes, Cincinnati Area districts are divided into Ring 1—those adjacent to CPS and/or within Hamilton County—and Ring 2, the remaining districts.

Magnitude of mobility

The magnitude of mobility examines *how many* students change schools, both during the school year and between school years, and is measured in two ways: 1) cohort stability and 2) churn.

Cohort stability: measures retention of students over time

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

In the least stable Cincinnati Area districts, about one of every three students in a school at the beginning of a school year is not in that same building at the end of a second school year. The most stable districts lose fewer than one in ten students.

Grades K-7 building stability

- **Cincinnati Public Schools.** Sixty-five percent of a cohort of students in grades K-7 remained in the same CPS building over two years, the fourth lowest stability rate of the 21 Cincinnati Area Ring 1 districts.

- **Other less stable districts.** North College Hill had the lowest building stability rate (47.6%) among the Ring 1 districts. St. Bernard-Elmwood Place, Lockland, Mt. Healthy, and Reading Community, also had building stability rates of 70% or less for grades K-7.

- **Most stable districts**. Madeira, Indian Hill, Mariemont, Forest Hills, and Wyoming had building stability rates of 90% or greater for grades K-7.

Grades 8-11 building stability

- **Cincinnati Public Schools.** Fifty-nine percent of a cohort of students in grades 8-11 remained in the same CPS building over two years, the fourth lowest stability rate of the 21 Cincinnati Area Ring 1 districts.

- **Other less stable districts.** North College Hill had the lowest building stability rate (49.8%) among the Ring 1 districts. Norwood, Mt. Healthy, St. Bernard, Elmwood Place, and Reading Community also had building stability rates of 70% or less for grades 8-11.

- **Most stable districts**. Indian Hill, Wyoming, Madeira, and Sycamore Community had building stability rates of 90% or greater for grades 8-11.

Charter school stability

- Only three of the 37 largest charter schools in the Cincinnati Area had stability rates of 70% or more, while 17 schools had rates of less than 50%, losing half or more of their students over two years. The least stable charter schools are primarily dropout recovery schools.

Churn: measures movements into and out of a building or district

What are the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

There were more than 12,000 admissions to and withdrawals from schools in the 21 Cincinnati Area Ring 1 districts during the 2010-2011 school year. For most of these districts, churn in grades K-8 resulted in a net gain of students (more admissions than withdrawals), while the churn in grades 9-12 produced a net loss of students (more withdrawals than admissions).

District churn

- **Cincinnati Public Schools.** The CPS K-8 churn rate (16.2%) and the 15.2% churn rate for grades 9-12 were the eighth highest among the 21 Ring 1 district. The 30 CPS buildings with the most churn have rates ranging from 23% to 117%. The building with the most churn is the Virtual High School.

- **Other high churn districts.** The Mt. Healthy, North College Hill, St. Bernard-Elmwood Place, and Lockland districts had K-12 churn rates of more than 20%.

- **Lowest churn districts**. The Wyoming, Indian Hill, and Madeira districts had the least churn among the Ring 1 districts, with K-12 rates of below 4.0%.

Charter school building churn

- Only three of the 37 largest physical charter schools in the Cincinnati Area had churn rates below 10%. Seven schools had rates of greater than 50%. The charter schools with the greatest churn (90-175%) are primarily dropout recovery schools.

Mobility Patterns

Mobility patterns show the movement of students between school districts and buildings and between public districts and charter schools, as well as the characteristics of origin and destination schools. The analysis includes: 1) district and building mobility patterns, 2) report card ratings of origin and destination schools, and 3) inter-district open enrollment analysis.

Mobility patterns: districts and buildings that exchange students

How many unique students did pairs of districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts?

Over two school years, the 50 public districts in the Cincinnati Area exchanged 19,226 students. Another 10,428 students were exchanged between public districts and charter schools (both physical and e-charters). The largest numbers of exchanges were between districts in close proximity to each other, but CPS also exchanged students with other Major Urban districts across the state.

Cincinnati Public Schools

Over two school years, 7,692 unique students transferred between CPS and another Ohio district or charter school. Of these, 58% moved to or from another district, 36% moved to or from a physical charter school; and 7% moved to or from an e-charter school. During this time period, 4,657 students made a non-promotional change of schools within the CPS district.

- **Cincinnati Public Schools exchanges with other districts.** Over two school years, 4,623 students were enrolled in a CPS school and in one of the 30 Ohio public districts that exchanged the most students with CPS. In these exchanges, 1,982 students entered CPS from another district, and

2,641 students left CPS for another district. The districts that exchanged at least 500 students with CPS were Mt. Healthy and Northwest.

- **Cincinnati Public Schools exchanges with charters.** Over two school years, 6,905 students were exchanged between CPS schools and 30 charter schools. Eight-six percent of these exchanges were from CPS to a physical charter school, and 14% were with e-charters, led by eCOT (308 students).

- **Cincinnati Public Schools exchanges with buildings in other districts.** The largest numbers of CPS inter-district building moves occurred at the high school level. Only seven of the top 30 exchanges involved elementary schools. CPS Aiken College and Career, Woodward Career Technical, and Western Hills Engineering high schools exchanged a total of at least 50 students each with high schools in the Mount Healthy, North College Hill, Northwest, Princeton, and Winton Woods districts. CPS Mount Airy and Pleasant Hill elementary schools exchanged a total of at least 50 students each with elementary schools in the North College Hill, Northwest, and Mount Healthy districts

- **Exchanges among Cincinnati Public Schools buildings.** Of the 4,657 CPS students made a non-promotional change of school within the CPS district, one-third occurred among students in grades K, 7, and 9. Of the 30 buildings that exchanged the most students, South Avondale Elementary, Rees E. Price Elementary, Western Hills University High, and Virtual High were the most frequent receiving schools. The most frequent sending schools were Aiken College and Career High, Carson Elementary, Virtual High, and Frederick Douglass Elementary.

Other Cincinnati Area districts

- **Exchange patterns among districts.** Over two years, there were 8,305 student exchanges among the 25 largest Cincinnati Area districts (excluding CPS). The Hamilton, Lakota, Northwest, and Middletown districts had the most inter-district exchanges. Districts that exchanged more than 175 students were Hamilton and Fairfield, Hamilton and Middletown, Hamilton and Lakota, Lakota and Fairfield, Hamilton and Talawanda, Princeton and Lakota, and Northwest and Mt. Healthy.

Origin and destination report card ratings

What is the performance rating of the destination school of mobile students, compared to the rating of the school of origin?

For students who moved into, out of, or within the CPS district, the state report card rating of the student's destination school, when compared to that of the school of origin, varied based on the types of buildings or districts involved in the move:

- **Exiting Cincinnati Public Schools for another district.** Sixty-three percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin; 33% went to a school with a rating two or more ratings higher.

- **Entering Cincinnati Public Schools from another district.** Sixty-six percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin; 31% went to a school with a rating two or more ratings lower.

- **Exiting Cincinnati Public Schools for a charter school.** Sixty-one percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin; 31% went to a school with a rating two or more ratings lower.

- **Changing schools within Cincinnati Public Schools.** Seventy percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin.

Open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

As of school year 2010–2011, the CPS district and most of the districts surrounding CPS did not accept open enrollment students from other districts. However, many districts in the Cincinnati Area—particularly those in Ring 2—do permit open enrollment. Eleven pairs of districts had at least 50 students who resided in one district, but attended school in another district through inter-district open enrollment, including from a Cincinnati residence to St. Bernard-Elmwood Place enrollment, West Clermont to Batavia, West Clermont to New Richmond, and Hamilton to New Miami.

Mobility and the student

The analysis of mobility and CPS student characteristics and achievement examines differences in: (1) demographics of mobile and non-mobile student groups, (2) demographics of students who left the district based on the type of destination school, and (3) proficiency test scores based on mobility status.

Student characteristics and mobility status

How do stable CPS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

- **Movers between CPS buildings.** Compared to stable CPS students, those who move between CPS buildings are more likely to be black, economically disadvantaged, homeless, or have a disability.
- **Outgoing and incoming students.** Compared to outgoing CPS students, incoming students are more likely to be white, an immigrant, or LEP.

Student characteristics and destination of outgoing students

How do the characteristics of outgoing CPS students differ based on their destination school?

- **Race.** Compared to other racial groups, black students are more likely to move to a physical charter school; white students are more likely to move to an e-charter; and Hispanic students are more likely to move to a district outside of Ohio.

- **Economic disadvantage.** Economically disadvantaged CPS students are more likely than those who are not economically disadvantaged to move to a physical charter.

- **Limited English Proficiency.** LEP students are more likely than those who are not LEP to move to a district outside of Ohio.

Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

Mobility history and economic disadvantage of test takers

Of the 4,464 3rd grade and 8th grade CPS students who took the OAA tests in spring 2011, about one-in-four test takers made at least one non-promotional school move during the previous two school years. The largest groups were those who made one school year move or one summer-only move. For both the 3rd grade and 8th-grade test takers, the students who moved once during the summer and those who moved two or more times had economic disadvantage rates of greater than 90%, compared to 75% and 68% for the 0-mover groups.

Mobility history and test scores

There is a downward trend in average test scores and passage rates of 3rd and 8th grade OAA math and reading tests with each successive school change that a CPS student made. All mover groups—even those who move one time in the summer—had lower average test scores and passage rates than students who did not change schools over the previous two years.

Statistical modeling compared mean test scores for mover groups. For the CPS student groups analyzed, the low p-values (<.0001) for all factors indicate that the number of school changes over two years is an independent predictor of test scores. There is a statistically significant relationship between more school moves and lower test scores. Economic disadvantage and race are also independent predictors of test scores.

Mobility and achievement test roll-up level

An impact of student mobility is that mobile students may not meet the enrollment criteria—continually enrolled in a building or district from October 31 until the spring achievement testing date—for counting their test scores in a building's or district's performance rating. Instead, their test score is "rolled up" and counts only for the district or state rating. Among the Cincinnati Area Ring 1 districts, Lockland has the highest percentage of students whose achievement test scores are rolled up to the state (22.2%). The CPS figure (8.1%) is the 8th highest among the 15 Major Urban districts.

Statewide context

To provide context for the data in the Cincinnati Area Profile, Table i includes comparison data on key district demographics and selected mobility measures for the 15 public school districts classified by ODE as "Major Urban," as well as for all public districts and all public charter schools in the state.

Table i. Ohio Major Urban Districts: District and student characteristics, school year 2010–2011 (SY 2011)

	Rating	Average daily enrollment	Enroll. chg. since SY 2001 (%)	Economic disadvan. (%)	Minority race or ethnicity (%)	Two-year district stability rate, Oct. 2009–May 2011 (%)		Two-year building stability rate, Oct. 2009–May 2011 (%)		One-year churn rate, school year 2010–2011 (%)		Test roll-up to state (4) (%)
						Grades K–7	Grades 8–11	Grades K–7	Grades 8–11	Grades K–8	Grades 9–12	
All Ohio public school districts (1)	-	1,637,230	-6.2	43.1	23.3	85.9	81.5	80.8	78.0	9.5 (2)	9.1 (2)	4.5
All Major Urban districts	-	244,396	-39.6	82.6	70.1	77.6	70.0	64.3	60.5	16.5 (2)	22.7 (2)	9.1
Akron	C	22,603	-25.3	84.7	59.5	81.5	77.1	68.9	66.2	12.3	18.2	4.3
Canton	C	9,750	-18.3	80.6	51.8	82.0	80.2	68.1	74.6	15.6	21.3	5.6
Cincinnati	B	32,009	-20.3	69.7	75.8	77.6	72.2	65.0	58.7	16.2	15.2	8.1
Cleveland	D	43,202	-40.2	>95.0	85.4	76.5	66.1	54.7	57.7	16.2	30.8	7.1
Cleveland Hts.-Univ. Hts.	C	5,907	-14.3	61.3	83.0	79.4	72.1	73.8	66.9	15.8	22.7	14.2
Columbus	C	49,616	-22.0	81.9	73.0	76.5	70.4	67.4	61.8	18.5	23.5	10.1
Dayton	C	14,174	-31.1	92.5	74.8	78.5	71.5	68.8	64.8	18.2	19.4	7.9
East Cleveland	D	3,182	-43.7	88.5	>95.0	69.1	62.6	64.6	61.6	23.9	22.9	10.2
Euclid	C	5,793	-4.3	66.0	83.6	77.1	76.8	68.6	72.8	16.9	16.4	7.3
Hamilton (Butler County)	C	9,444	<0.1	69.2	24.6	80.7	74.9	68.4	66.2	18.7	22.4	8.2
Lorain	C	7,585	-26.3	84.5	72.0	77.2	71.8	60.4	53.9	19.8	25.6	8.5
Springfield (Clark County)	B	7,398	-24.2	76.3	37.9	81.3	69.7	64.7	51.4	14.5	24.0	6.1
Toledo	C	22,277	-39.4	76.6	60.0	74.9	60.1	63.5	49.0	16.5	31.1	8.7
Warren	D	5,368	-20.9	75.2	53.8	79.0	71.2	63.0	65.5	15.5	18.8	5.3
Youngstown	D	6,088	-42.5	91.9	83.1	74.3	65.3	60.5	55.3	20.4	27.4	8.2
All Ohio public charter schools	-	113,698	-	75.0	60.8	-	-	50.6 (3)		27.2 (2,3)		13.7
E-charters	-	3,3052	-	64.7	21.0	-	-	44.2 (3)		129.9 (2,3)		30.8

Source: Ohio Department of Education; CRP analysis of ODE enrollment records

Note: District rating A+=Excellent with Distinction, A=Excellent, B=Effective, C=Continuous Improvement, D=Academic Watch, F=Academic Emergency.

(1) Public school district data in this table do not include the island districts or College Corner.

(2) Median of churn rates

(3) Churn rates for grades K-11 or K-12

(4) Among spring 2011 math achievement assessment test-takers in grades 3 to 8 reported by district (or charter school), the percentage whose scores were rolled up to state level; i.e., student was not continuously enrolled in district (or charter school) since last day of October for same academic year

1.0 Introduction

1.1 What is student mobility?

Student mobility is the phenomenon of students in grades K-12 changing schools for reasons other than customary promotion from elementary school to middle school or from middle school to high school. This non-promotional school change can occur during the school year or in the summer between school years. It may involve residential change, school change, or both.

Students may change schools for reasons that are considered positive, such as when a family moves to a better school, neighborhood, or job. In fact, the current education policy environment sends a strong message to parents that school choice—which typically involves school change—is good. Community-based charter schools and school voucher programs are examples of school choice policy initiatives. The federal No Child Left Behind Act of 2001 (NCLB) requires that school districts provide students in schools identified as "In School Improvement," based on trends in proficiency test passage rates, with the opportunity to transfer to a school not designated as "In School Improvement."

1.2 The importance of understanding student mobility

Student mobility has consequences for schools, students, communities, and public policy. Research has found that students who change schools more frequently are likely to have worse educational outcomes. Highly mobile students are also more likely to be those with other risk factors—low income, special education, homelessness, or an unstable home environment. School changes worsen the learning and achievement problems of these at-risk children.

High student mobility puts a stress on teachers and administrators who must continually focus on incorporating new students into the building and classroom. Stable students in schools with high mobility also suffer from the disruptions to the classroom environment and the slower instructional pace necessary to accommodate new students. School districts face increased administrative costs from student mobility, including costs related to student records transfer and transportation.

There are community impacts of high student mobility that reach beyond the school. Neighborhoods and school districts with low performing schools and unstable school populations are disincentives to home ownership and economic development. Investments in school-based initiatives to improve attendance, academic achievement, and graduation rates are less effective if students move from school to school, dropping in and out of programs.

Finally, student mobility has important consequences for state and local education policy. A better understanding of how mobility impacts schools and students has implications for accountability measurement, education funding, and curriculum and instruction.

1.3 The Ohio Student Mobility Research Project

History of the project

In 2011, Community Research Partners (CRP) and the Thomas B. Fordham Institute (Fordham) entered into a partnership to conduct research on student mobility in Ohio. Fordham, a national leader in advancing educational excellence through quality research, commentary, and advocacy, wanted to build on their recent research on student mobility in the Dayton area and examine student mobility throughout the state. CRP brought to the project its experience in undertaking research on student mobility in the Columbus City Schools (CCS) and in processing and analyzing student-level records from the Ohio Department of Education (ODE).

In June 2011, Fordham provided CRP with a planning grant to develop a workable research plan. ODE provided CRP with student-records from the Education Management Information System (EMIS). Beginning with the 2008-2009 school year, EMIS has included unique student identifiers that enable tracking of individual students over time as they enter and exit public districts and public

charter schools in Ohio. With assistance from ODE staff in understanding and using the EMIS data, CRP analyzed student records for Franklin County districts. The outcome of the planning phase was a design for a large-scale study of student mobility in Ohio, to be conducted by CRP. Work on the project began in February 2012.

Project funders

The diverse set of project funders is indicative of the importance of the issue of student mobility. Funders are supporting the Ohio Student Mobility Research because of their interest in understanding: 1) the patterns of student mobility in Ohio or in a local community, 2) the impact of mobility on students and schools, and/or 3) the implications of mobility for state and local public policy. In addition to Fordham, funders include: The Siemer Institute for Family Stability, The Nord Family Foundation, The Cleveland Foundation, KnowledgeWorks, KidsOhio.org, American Federation of Teachers/Ohio Federation of Teachers, School Choice Ohio, United Way of Central Ohio, United Way of Greater Toledo, and The Columbus Foundation.

Research components

CRP and Fordham are not aware of other research that has examined student mobility at the scale, scope, and level of detail of the Ohio Student Mobility Research. The research employs descriptive and analytic statistics—presented in spreadsheets, visualizations, and reports—to provide a picture of student mobility for all Ohio public school districts and buildings and public charter schools, with in-depth analysis for five large urban regions (Columbus, Cleveland, Cincinnati, Dayton, Toledo).

The research also addresses several state policy issues of interest to Fordham: 1) open enrollment patterns, 2) "non-counters" profile (students whose test scores do not count in district performance ratings), and 3) monthly enrollment profiles of public districts. The project did not include collecting qualitative data from students, families, school personnel, or other stakeholders to determine why students change schools or the impact of student mobility.

About the data

As would be expected when undertaking such complex research, CRP made a number of decisions, in consultation with Fordham and ODE, about data analysis methods, definitions, and parameters. There are also a number of caveats about the data that are important to understand. These are described below.

The dataset

The dataset includes ODE EMIS files (student standing, student attributes, and student achievement tests) with 2.1 million unique students in grades K-12 during the 2009-10 and 2010-11 school years. (about five million instances of enrollment). The following were excluded from the analysis dataset:

- Non-instructional relationship between student and district, i.e. district provides only supportive services to student or has a residual reporting requirement for student

- Zero days in attendance over entirety of enrollment record

- Educational Service Centers

- Preschools and preschool students

- Foreign exchange students

- Kindergarten withdrawals

- Island Districts and College Corner, which are very small or geographically isolated

In school year 2010-11, the 1.79 million unique students included:

- 1.66 million students in 612 public school districts and 3,293 public school buildings

- 81,800 students in 313 "bricks and mortar," or physical, public charter schools

- 48,900 students in 26 accredited e-charters, a subset of charter schools
- 1,500 students in state schools for the deaf and blind
- 93,400 students in 71 vocational schools

Definitions

Charter schools. Ohio public charter schools (called "community schools" by ODE) include "bricks and mortar" schools that have school buildings and accredited e-charters, where teaching is done on-line. For brevity and clarity in this report, these two types of charter schools are referred to as: 1) *physical charter schools* and 2) *e-charter schools*.

School year. For most of the analysis, a school year is defined as beginning on October 1 (the official fall enrollment count date for Ohio schools) and ending on May 15. This was done to accommodate the various starting and ending dates of schools across the state.

Mobility-related terms. Report sections 3.0, 4.0, and 5.0 begin with definitions and other information related to the mobility measures used in this report.

Local context

The research scope and timeline did not include collecting information on unique situations in local districts or charter schools, not always evident in the EMIS dataset, which may contribute to or explain mobility rates and patterns. These may include: 1) competitive magnet or alternative schools that only admit students at the beginning of the school year, 2) school building demolition, renovation, or new construction that result in large numbers of students changing buildings; 3) starting, ending, or moving special programs (programs for students with disabilities, LEP students); 4) grade realignment (changing a school from K-5 to K-8); or 5) special purpose schools, (dropout recovery, welcome/transition schools) that by design involve students moving in and out throughout the year. CRP and Fordham hope that discussion of the research by local education stakeholders will provide this additional context for the data analysis.

Reliability of student identification numbers

This research is only possible because ODE has unique statewide student identifiers (SSID) that enable tracking students across public schools and districts. However, there is anecdotal evidence from district staff and others familiar with student recordkeeping that a new identifier is sometimes assigned to a student who enrolls in a new district. Because ODE records do not include student names, it was not possible for CRP to determine the extent to which this is happening; however, ODE data staff believes that it involves a very small number of cases.

The school attendance data controversy

As this report is being written, the State Auditor is examining student attendance data for districts across Ohio. It is alleged that some school staff withdrew students they knew to be still enrolled, deleted their absences, and then re-enrolled them, for the purpose of improving school ratings. This practice would increase a school's attendance rate, and only the test scores of students who have been continually enrolled from October through the spring proficiency test dates are counted in a school's overall test-passage rate.

This does not, however, impact the Ohio Student Mobility Research for the following reasons:

1. Student attendance records were not used for the research.

2. For the purposes of calculating building churn rates, a student who was withdrawn and then readmitted to the same building in less than 30 days was treated as continuously enrolled rather than as an exit/reentry event. It was assumed that this was an administrative action and not a school move.

3. Analysis of the relationship of mobility to proficiency test scores is based on individual student records. Building-level test passage rates were not used.

In addition, this research includes a profile of "non-counters"—students whose test scores do not count in building or district report cards—which can help to inform this important dialogue.

Caveats about accuracy

CRP has been very careful in collecting, analyzing and presenting data to prepare the Ohio Student Mobility Research Project report. However, the project did not include authenticating the data provided by ODE. If careful readers of the report discover data errors or typographical errors, CRP welcomes this feedback and will publish corrections to the report.

The Cincinnati Area Profile

This report is a mobility profile of students in the Cincinnati Area. It focuses on the mobility of CPS students and how students move within the district and between and among 49 districts and 29 physical charter schools within an approximate 30 mile radius of CPS. The analysis includes:

- **Magnitude of mobility:** stability of students within districts and buildings (cohort stability) and numbers of movements into and out of districts and buildings (churn)

- **Mobility patterns:** origin and destination of movement between buildings and districts

- **Mobility and students:** the relationship of mobility to student demographic characteristics and student achievement

Additional data

- **Appendix.** Additional detailed data on student mobility for individual Cincinnati Area districts, buildings, and charter schools can be found in the appendix of this report.

- **Online spreadsheets.** Excel spreadsheets with mobility data for every public district, building, and charter school in Ohio can be found at: www.researchpartners.org.

- **Profile reports for other urban areas.** Profile reports for the Cleveland, Columbus, Dayton, and Toledo areas are available at: www.researchpartners.org.

2.0 The Cincinnati Area

The Cincinnati Area, as defined for the student mobility research, is the geographic area that includes all public school districts and physical public charter schools within approximately 30-miles of the central district, Cincinnati Public Schools (the research includes only Ohio schools and students) (Map 1; Table 1). Portions of the analysis also include students within the Cincinnati Area who attend e-charters.

For the purpose of data analysis, the 49 districts are divided into:

- **Ring 1**: districts adjacent to CPS and/or within Hamilton County

- **Ring 2**: the remainder of the districts, which are farther from the CPS district

Most of the analysis in this report is focused on the central urban district and the Ring 1 districts; however data about all districts in the Cincinnati Area can be found in the appendix and in on-line spreadsheets at (www.researchpartners.org).

Map 1. School districts in the Cincinnati Area

Note: In the maps of this report, district outlines are based on U.S. Census TIGER files.

Table 1. Number of public districts and school buildings in the Cincinnati Area, school year 2010–2011

	Public districts	Buildings in public districts	Public charter schools
Cincinnati Public Schools (CPS)	1	57	22
Ring 1 (districts within same county or adjacent to CPS)	20	112	2
Ring 2 (other districts within 30 miles of CPS)	29	178	5

Note: See Section 1 for types of schools included and excluded

2.1   Cincinnati Area schools at a glance

Cincinnati Public Schools: student characteristics

CPS is the third largest district in Ohio and has had a 20% loss in enrollment over ten years (Table 2). In school year 2010-11, over three-quarters of CPS students were a minority race or ethnicity, including 66.9% black, 2.6% Hispanic, and 1.0% Asian students. Seven of ten students were economically disadvantaged (eligible for Free and Reduced Price Lunch Program); 0.8% were immigrants; 3.7% had limited English proficiency (LEP); and 21% had a disability. Of the more than 2,000 homeless students in Cincinnati Area districts in school year 2010, 74% were enrolled in CPS.

Among children ages 5–17 living within the CPS district boundaries, 12,769 (25.2%) lived in a different house than they did one year prior. About 1 in 5 children residing within the district and enrolled in grades 1–12 were enrolled in a private school. (American Community Survey 2010)

Other Cincinnati Area districts: student characteristics

The following are characteristics of the 49 Ring 1 and Ring 2 districts (excluding CPS) in the Cincinnati Area for school year 2010-2011 (Table 2 and Appendix):

- Eleven districts had economic disadvantage rates above 50% (New Miami, Mount Healthy, St. Bernard-Elmwood Place, Middletown, Hamilton-Butler County, North College Hill, Lockland, Norwood, Princeton, Winton Woods, and Felicity-Franklin).

- Four districts had LEP rates above 5%: Princeton, Winton Woods, Norwood, and Lockland.

- In five districts (Winton Woods, North College Hill, Mount Healthy, Princeton, and Lockland) minority students made up more than one-half of the student population.

- Northwest had the second largest number of homeless students (82) after CPS.

Table 2. Cincinnati Area: Student characteristics, school year 2010–2011

School district	Enrollment (1)	Enrollment change since SY 2001 (%)	Economic disadvantage (%)	Minority (%)	Limited English Prof. (%)	Homeless
All districts in Cincinnati Area	222,561	+0.8	37.3	28.1	2.4	2,153
All Ring 1 districts	108,860	-12.3	45.8	46.1	2.9	1,848
Cincinnati	32,009	-20.3	69.7	75.8	3.7	1,594
Northwest	9,149	-8.3	45.1	35.1	2.1	82
Oak Hills	7,727	0.0	6.5	6.8	0.0	-
Forest Hills	7,351	-0.2	10.8	8.2	0.5	-
Princeton	5,238	-15.9	58.6	66.5	11.2	56
Sycamore Community	5,197	-9.7	16.0	28.3	3.7	22
Mt Healthy	3,567	-5.6	76.1	80.4	1.1	54
Southwest	3,306	-13.7	34.5	<5.0	0.0	-
Winton Woods	3,267	-21.2	57.7	84.9	6.8	20
Norwood	2,171	-25.3	60.4	21.8	5.5	20
Indian Hill	2,067	-5.4	5.1	16.1	0.9	-
Wyoming	1,987	+4.8	6.6	21.3	0.0	-
Three Rivers	1,833	-11.4	35.8	5.5	0.0	-
Mariemont	1,637	-0.5	8.2	6.8	0.0	-
Reading Community	1,597	+37.1	38.9	11.7	1.0	-
North College Hill	1,595	+3.5	68.8	81.9	0.8	-
Finneytown	1,492	-17.4	36.2	48.8	1.3	-
Madeira	1,392	-2.6	8.7	10.3	1.7	-
Deer Park	1,256	-14.3	40.9	19.1	1.6	-
St. Bernard-Elmwood Plc.	974	-14.7	72.0	32.3	0.0	-
Lockland	632	-1.3	62.9	52.2	5.2	-
All Ring 2 districts	111,971	+13.5	30.9	14.6	2.1	305

Table 2. Cincinnati Area: Student characteristics, school year 2010–2011 (continued)

School district	Enrollment (1)	Enrollment change since SY 2001 (%)	Economic disadvantage (%)	Minority (%)	Limited English Prof. (%)	Homeless
Cincinnati Area physical charter schools	7,923	-	82.9	89.2	-	-
Cincinnati Area students in e-charter schools	3,438	-	60.1	20.7	-	-

Source: Ohio Department of Education

Note: (1) For e-charters, enrollment is October 1 enrollment of students residing in Cincinnati Area districts; for all other districts, figure is average daily enrollment

Cincinnati Area districts: school performance designations

ODE assigns annual report card ratings to school buildings and districts based on student performance and progress. In this report, rating letters of A+ to F are used to represent the six-level state performance designation system for school districts and buildings (Map 2 legend).

- Among the 50 Cincinnati Area districts, 34 had the two highest designations (Excellent or Excellent with Distinction) for school year 2010–2011. No districts had the lowest two designations of Academic Watch or Academic Emergency.

- CPS had a rating of Effective, as did one of the other of the 15 Major Urban districts (see Table i) in Ohio. Only Springfield City was as highly rated.

- Of the 57 CPS school buildings in operation, 10 had the two highest state report card designations, and 10 had the two lowest designations.

Map 2. Cincinnati Area districts: ODE report card designations, school year 2010–2011
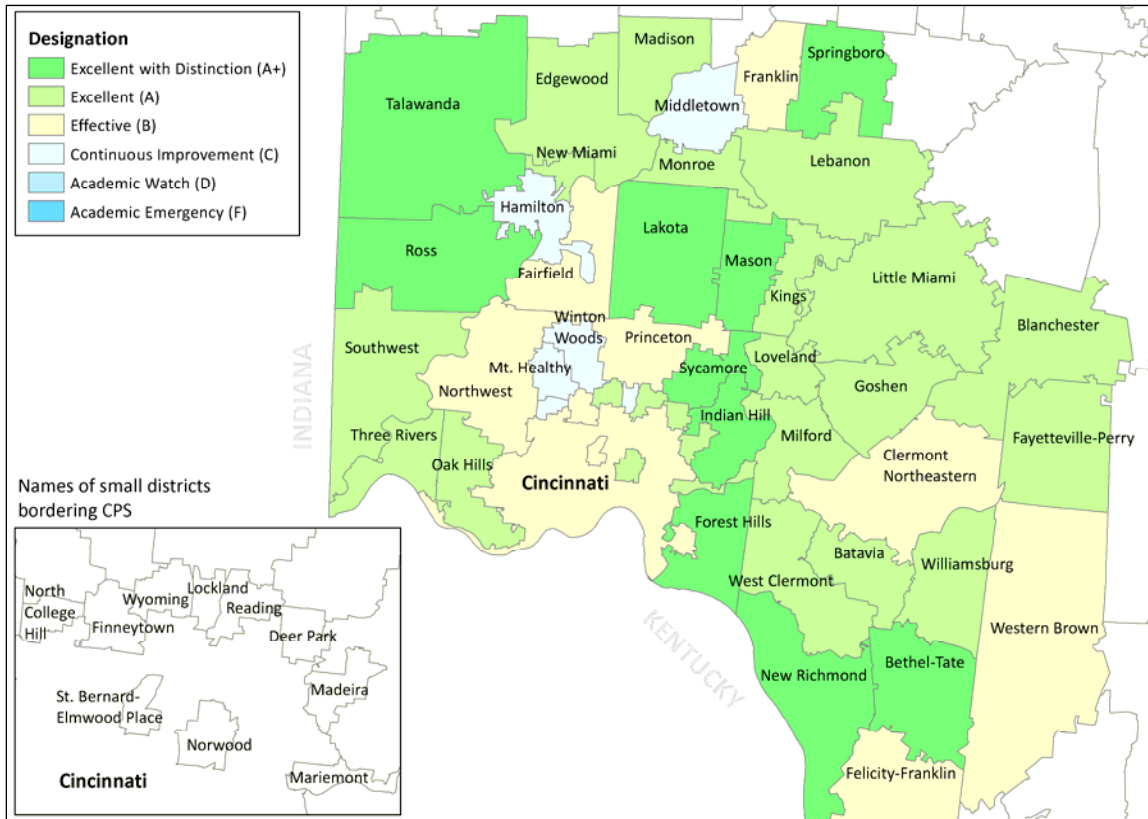
Source: Ohio Department of Education

Voucher holders

The Ohio Educational Choice Scholarship Program (EdChoice) provides students from underperforming public schools with the opportunity to attend participating private schools. Students currently attending—or who will be assigned to—a public school in their resident district that has been rated in Academic Emergency or Academic Watch for two of the past three years are eligible to apply. Students currently attending a charter school whose home school is an eligible school are also eligible.

In school year 2010-2011, there were nearly 2,800 voucher holders whose district of residence was a Cincinnati Area district. The districts of residence of these voucher holders were:

- Cincinnati—2,663
- Mt. Healthy—126
- Princeton—< 10

Vouchers were used at 56 Cincinnati Area private schools (Table 3). These figures were prior to adoption of the state 2011-2012 budget, which tripled the number of vouchers available to Ohio students.

Table 3. School of attendance of Cincinnati Area EdChoice voucher holders, school year 2010–2011

School of attendance of voucher holders	Number of vouchers	School of attendance of voucher holders	Number of vouchers
Nativity	139	St Mary	56
St Lawrence	138	Cincinnati Junior Academy	54
St Cecilia	125	Cincinnati Hills-Otto Armleder	46
St William	121	John XXIII	44
Our Lady of Grace Catholic School	116	St Vincent Ferrer	31
St Martin Of Tours	113	Lasalle	27
St Francis Desales	100	St Nicholas Academy	25
Annunciation	96	Bethany	18
St Joseph	94	Aldersgate Christian Academy	17
Eden Grove Academy	93	St Aloysius On-The-Ohio	17
Prince Of Peace	89	St James	17
Resurrection	89	The Good Shepherd Catholic Montessori	14
St Vivian	86	Cincinnati Christian Schools	14
St Dominic	85	Cardinal Pacelli	13
St Boniface	78	Mother Of Mercy	13
St Teresa of Avila	75	Beautiful Savior Lutheran	< 10
Purcell-Marian	73	Central Baptist Academy - High School	< 10
St Catharine Of Siena	71	Central Montessori Academy	< 10
Middletown Christian	71	Cornerstone Christian Academy	< 10
Holy Family	65	Heaven's Treasures Academy	< 10
St Clement	65	Immanuel Lutheran	< 10
Cincinnati Hebrew Day Chofetz	62	Moeller	< 10
Cincinnati Waldorf School	62	Mount Notre Dame	< 10
Central Baptist Academy - Elementary	61	Rockwern Academy	< 10
Corryville Catholic	59	St Gertrude	< 10
Our Lady Of Lourdes	59	St Michael	< 10
St Francis Seraph	57	St Ursula Villa	< 10
Roger Bacon	56	St Xavier	< 10

Source: Ohio Department of Education

3.0 Magnitude of mobility

3.1 Section overview and key concepts

This section of the report examines how many students change schools, both during the school year and between school years. The school year is defined as the period from October 1 (the date that districts report enrollment to ODE) and May 15. Promotional moves (elementary to middle school; middle school to high school) are not included in these calculations. The magnitude of mobility is measured in two ways: (1) cohort stability and (2) churn. Both are calculated at the district and building levels.

This report provides an overview of the magnitude of mobility in Cincinnati Area schools. Additional cohort stability and churn data for districts, buildings, and charter schools can be found in the Appendix and in online spreadsheets at www.researchpartners.org.

Cohort stability: measures retention of students over time

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

- **School District Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same district at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

- **School Building Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same building at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

Data notes

- A student who changed buildings within a district over two school years, but remained consistently enrolled in the district, is considered a stable student in the district-level stability calculation.

- Some building cohort instability is the result of changes in district programming that moves groups of students (e.g. LEP students) from one building to another.

- The analysis did not capture students who moved out of, and back into, a district or building during a school year (between October 1 and May 15)

Churn rate: measures movements into and out of a building or district

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

- **District churn rate:** The sum of all instances of district admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school year 2010-2011.

- **Building churn rate:** The sum of all instances of building admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school year 2010-2011.

Data notes

- A student's building enrollment Start Date that was fewer than 30 days following the Withdrawal Date from the same building was treated as continuous enrollment rather than an exit/reentry event.

- Because churn measures moves, individual students can be counted multiple times, each time they leave a district or building, and each time they enter a district or building, during a school year.

3.2   Student cohort stability

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

School district stability for Cincinnati Area districts grades K-7

In the least stable Cincinnati Area districts, about one of every three students in a school at the beginning of a school year is not in that same building at the end of a second school year. The most stable districts lose fewer than one in ten students.

Cincinnati Public Schools

Of the CPS October 2009 grades K-7 cohort, 77.6% of the students remained in the district over two years, and 65.0% remained in the same CPS building over two years (Map 3). Compared to the 15 districts designated as Major Urban by ODE, CPS had the 8th highest district K-7 stability rate (Table i). Canton City School was most stable, with a rate of 82.0%, while East Cleveland Schools were the least stable, with a rate of 69.1%

Other Cincinnati Area districts

North College Hill had the lowest building stability rate (47.6%) among the Cincinnati Area Ring 1 districts. St. Bernard-Elmwood Place, Lockland, Mt. Healthy, Reading Community, and North College Hill had building stability rates of 70% or less for grades K-7. Madeira, Indian Hill, Mariemont, Forest Hills, and Wyoming were the most stable districts with rates of 90% or above. Among districts with 50% or more economically disadvantaged students, Princeton had the highest district stability rate (81.3%) and Felicity-Franklin had the highest building stability rate (78.5%) for grades K–7.

Table 4. Cincinnati Area Ring 1 Districts: Two-year district and building stability for grades K–7

Districts	District Rating	District stability		Building stability (1)	
		October 2009 district cohort	In same district May 2011 (%)	October 2009 building cohort	In same building May 2011 (%)
Madeira	A	819	94.7	706	94.5
Indian Hill	A+	1,168	93.1	879	92.5
Mariemont	A	1,035	91.8	799	91.7
Forest Hills	A+	4,573	92.1	4,031	91.0
Wyoming	A	1,149	93.9	1,000	90.2
Oak Hills	A	4,611	91.6	4,057	89.1
Sycamore Community	A+	3,000	87.8	2,210	86.1
Deer Park	A	777	87.0	581	85.0
Three Rivers	A	1,131	85.1	839	83.9
Southwest	A	2,107	87.7	1,827	83.5
Finneytown	B	892	80.6	651	80.8
Northwest	B	5,490	83.8	4,665	80.3
Princeton	B	3,072	81.1	2,682	75.8
Norwood	A	1,364	78.2	1,134	74.3
Winton Woods	C	2,006	75.6	1,253	71.8
St. Bernard-Elmwood Plc.	B	572	70.1	501	68.5
Lockland	C	379	68.1	343	67.6
Cincinnati	B	19,782	77.6	18,581	65.0
Mt. Healthy	C	2,277	70.2	1,161	59.1
Reading Community	A	988	84.5	862	57.5
North College Hill	C	901	72.8	296	47.6

Source: CRP analysis of ODE enrollment records

(1) Excluded from the building cohort are students who would be expected to be promoted to a different building in year 2. .

Map 3. Cincinnati Area: Two-year building stability rate for grades K–7, October 2009–May 2011
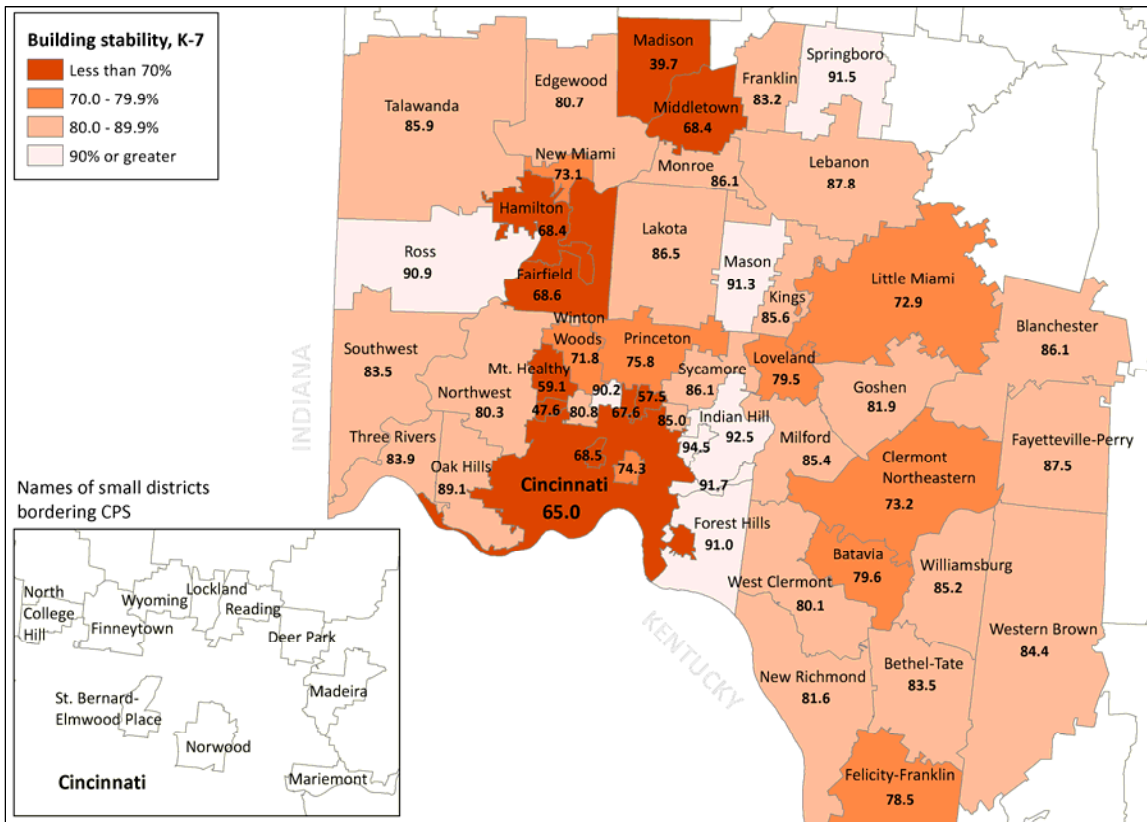
Source: CRP analysis of ODE enrollment records.

School district stability grades 8–11

Cincinnati Public Schools

- CPS district and building two-year stability rates (72.2% and 58.7%, respectively) for grades 8–11 were lower than corresponding stability rates for grades K–7 (Table 5).

- Compared to the 15 districts designated as Major Urban by ODE (Table i), CPS had the 5th highest district grades 8-11 stability rate. Canton City Schools were the most stable, with a rate of 80.2%, while Toledo City Schools were the least stable, with a rate of 60.1%

Other Cincinnati Area districts

- The Ring 1 districts St. Bernard-Elmwood Place (57.9%), Mount Healthy (64.9%), North College Hill (67.3%), and Norwood (70.0%) had district stability rates for grades 8-11 that were below 75%. Wyoming, Madeira, Sycamore Community, Forest Hills, and Indian Hill had grades 8-11 district stability rates of 90% or greater.

- Of the Ring 2 districts, New Miami (63.3%), Middletown (73.5%), Little Miami (74.5%), and Hamilton City (74.9%) had district stability rates for grades 8-11 that were below 75%. Mason (90.8%) was the only Ring 2 district with grades 8-11 stability rates above 90%.

Table 5. Cincinnati Area Ring 1 Districts: Two-year district and building stability for grades 8–11

Districts	Rating	District stability		Building stability (1)	
		October 2009 district cohort	In same district May 2011 (%)	October 2009 building cohort	In same building May 2011 (%)
Indian Hill	A+	752	90.0	543	93.2
Wyoming	A	670	93.1	495	93.1
Madeira	A	453	92.7	345	92.5
Sycamore Community	A+	1,765	91.2	1,285	92.1
Oak Hills	A	2,543	89.4	1,894	89.5
Forest Hills	A+	2,431	91.0	1,846	89.5
Mariemont	A	464	87.9	357	89.4
Southwest	A	1,102	82.5	818	80.7
Finneytown	B	535	80.4	535	80.4
Northwest	B	3,137	80.9	2,381	78.4
Deer Park	A	388	78.1	388	78.1
Three Rivers	A	572	78.8	412	77.9
Lockland	C	186	80.6	141	75.2
Winton Woods	C	1,058	74.7	773	74.9
Princeton	B	1,614	77.4	1,223	72.7
Norwood	A	623	70.0	459	66.0
Mt Healthy	C	929	64.9	703	58.7
Cincinnati	B	10,758	72.2	9,250	58.7
St. Bernard-Elmwood Plc.	B	309	57.9	309	57.9
Reading Community	A	446	76.9	446	56.5
North College Hill	C	450	67.3	450	49.8

Source: CRP analysis of ODE records (1) Excluded are students expected to be promoted to a different building in year 2.

Map 4. Cincinnati Area: Two-year building stability rate for grades 8–11, October 2009–May 2011
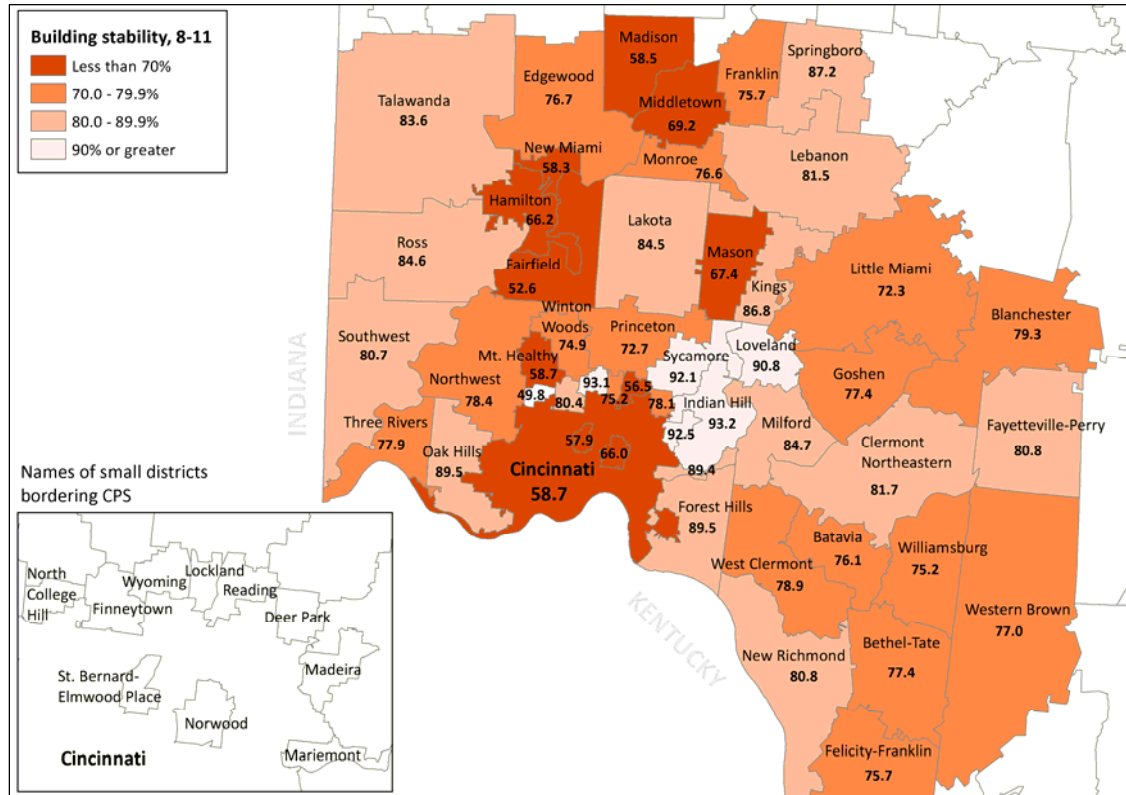
Source: CRP analysis of ODE enrollment records

Building stability for Cincinnati Public Schools

Nearly all of the most stable CPS schools are magnet schools (Table 6). CPS buildings with the lowest stability rates lose approximately half of the students in a cohort over two school years (Table 7).

Table 6. CPS: 30 *most stable* school buildings, October 2009–May 2011

School building	Grade range	Rating	Econ. Disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
Fairview-Clifton German Language School	PK-6	A	21.6	611	90.7
Sands Montessori Elementary School	PK-6	A	28.1	566	89.9
Dater Montessori Elementary School	PK-6	A	49.6	569	88.9
School For Creative & Perf orming Arts High	K-12	A	51.0	907	87.8
North Avondale Montessori Elementary School	PK-6	B	45.1	411	87.1
Kilgour Elementary School	K-6	A	18.1	535	85.0
Covedale Elementary School	K-6	A	54.7	444	83.3
Clark Montessori High School	7-12	B	32.1	585	82.7
Walnut Hills High School	7-12	A	19.8	1,878	81.4
Academy for Multilingual Immersion Studies	PK-8	C	89.0	447	80.1
Academy Of World Languages Elementary School	PK-8	D	89.7	486	79.2
Silverton Paideia Elementary School	PK-6	B	81.9	289	75.1
Winton Montessori Elementary School	PK-6	C	78.4	332	74.7
Roberts Academy: A Paideia Learning Community	PK-8	C	93.5	625	74.4
Withrow University High School	9-12	B	67.7	625	73.8
Woodford Paideia Elementary School	PK-6	C	80.9	413	72.6
College Hill Fundamental Academy	PK-6	A	79.0	442	72.6
James N. Gamble Montessori High School	7-10	C	53.2	156	72.4
Shroder Paideia High School	7-12	C	72.5	618	71.5
Gilbert A. Dater High School	7-12	C	60.1	659	70.3
Sayler Park Elementary School	PK-8	B	85.5	254	68.9
Riverview East Academy	PK-12	C	77.1	418	64.6
Midway Elementary School	PK-8	D	86.3	542	64.0
Cheviot Elementary School	PK-8	C	83.1	527	62.8
Mt. Washington Elementary School	PK-8	A	64.2	469	60.8
John P Parker Elementary School	PK-8	C	86.1	362	60.2
Roselawn Condon Elementary School	PK-8	C	86.0	380	59.5
Hartwell Elementary School	PK-8	B	83.2	360	58.6
William H. Taft Elementary School	PK-8	C	94.4	218	57.8
Bond Hill Academy Elementary School	PK-8	C	90.8	342	57.6

Source: CRP analysis of ODE enrollment records

Note: Table 5 is limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Table 7. CPS: 30 *least stable* school buildings, October 2009–May 2011

School building	Grade range	Rating	Econ. Disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
Hartwell Elementary School	PK-8	B	83.2	360	58.6
William H. Taft Elementary School	PK-8	C	94.4	218	57.8
Bond Hill Academy Elementary School	PK-8	C	90.8	342	57.6
Pleasant Hill Elementary School	PK-8	D	89.2	604	57.5
Pleasant Ridge Montessori School	PK-6	F	69.4	455	56.7
Rothenberg Preparatory Academy	PK-8	C	95.3	261	56.3
Hoffman-Parham Elementary School	PK-8	C	91.4	362	51.9
Ethel M. Taylor Academy	K-8	D	83.0	352	51.7
Winton Hills Academy Elementary School	PK-8	C	>95.0	432	51.2
George Hays-Jennie Porter Elementary School	PK-8	C	>95.0	331	51.1
Rockdale Academy Elementary School	PK-8	D	91.5	340	50.9
Roll Hill School	PK-8	C	91.2	493	50.7
Hughes STEM High School	9-10	B	77.2	294	50.7
Western Hills University High School	9-12	B	75.3	541	50.5
Frederick Douglass Elementary School	PK-8	C	>95.0	358	50.3
Chase Elementary School	PK-8	C	94.0	269	49.8
South Avondale Elementary School	PK-8	B	94.5	520	49.4
Carson Elementary School	PK-8	C	90.6	588	49.0
Mt. Airy Elementary School	PK-8	C	91.3	607	48.3
Withrow International High School	9-12	C	72.0	487	47.6
Oyler School	PK-12	C	85.4	689	47.6
Woodward Career Technical High School	9-12	C	75.9	881	45.3
Aiken College and Career High School	9-12	B	75.5	659	45.1
Rees E. Price Elementary School	PK-8	C	90.5	562	44.5
Westwood Elementary School	PK-8	D	89.5	313	44.4
Quebec Heights Elementary School	PK-8	F	89.0	298	40.9
Robert A. Taft Information Technology High	9-12	A	72.6	413	40.0
Western Hills Engineering High School	9-12	F	69.4	480	36.7
Hughes Center High School	11-12	C	69.7	518	29.2
Virtual High School	9-12	D	55.0	254	11.4

Source: CRP analysis of ODE enrollment records

Note: Table 6 is limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Cincinnati Area Profile **|** Ohio Student Mobility Research Project

Stability for charter schools

Stability rates for many of the public charter schools in the Cincinnati Area were low (Table 8). Only three of the largest charter schools had stability rates of 70% or more, while 17 schools had rates of less than 50%. The least stable charter schools are primarily dropout recovery schools.

Table 8. Cincinnati Area: Stability rates for charter schools, October 2009–May 2011

School *e-charters in italics* *Dropout recovery school (District location if other than CCS)	Grade range	Rating	Econ. disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
Summit Academy Community School for Alternative Learners of Middletown (Middletown)	K-10	F	60.8	65	84.6
T.C.P. World Academy	K-6	A	83.0	364	83.5
Cincinnati College Preparatory Academy	K-12	B	95.0	681	78.7
Middletown Fitness & Preparatory Academy (Middletown)	K-8	C	78.3	253	67.2
Summit Academy Cincinnati	1-8	F	47.2	79	67.1
Cincinnati Leadership Academy	K-8	D	51.7	175	60.0
Alternative Education Academy	K-12	D	49.1	72	59.7
Ohio Virtual Academy	K-12	B	45.3	501	59.7
Orion Academy	K-8	D	>95.0	549	59.4
Richard Allen Academy III (Hamilton)	K-8	C	92.1	225	59.1
Hamilton County Math & Science (Northwest)	K-8	A	73.5	390	59.0
Ohio Connections Academy, Inc.	K-12	B	31.2	89	58.4
King Academy Community School	K-8	C	94.8	133	57.9
Mount Auburn International Academy	K-12	D	65.3	573	57.6
Summit Academy Transition High School-Cincinnati	9-12	B	36.2	44	56.8
V L T Academy	K-12	C	>95.0	755	56.6
Ohio Virtual Academy	K-12	B	55.1	916	56.6
Phoenix Community Learning Center	K-8	B	85.1	339	55.2
Alternative Education Academy	K-12	D	55.1	181	51.9
Ohio Connections Academy, Inc.	K-12	B	49.1	169	50.3
Dohn Community*	9-12	F	83.0	67	49.3
Electronic Classroom Of Tomorrow	K-12	C	71.1	174	48.3
Buckeye OnLine School for Success	K-12	C	39.4	69	47.8
Electronic Classroom Of Tomorrow	K-12	C	77.6	993	47.0
Alliance Academy of Cincinnati	K-8	C	>95.0	404	45.0
Mt. Healthy Preparatory and Fitness Academy (Mt. Healthy)	K-8	B	76.4	190	44.7
Horizon Science Academy-Cincinnati	K-12	B	93.2	354	43.2
Virtual Community School Of Ohio	K-12	C	80.9	75	42.7
East End Community Heritage School	K-12	F	73.1	67	41.8
Greater Ohio Virtual School	9-12	D	55.0	113	38.9
Cincinnati Speech & Reading Intervention Center	K-8	F	78.4	154	38.3
Lighthouse Community School Inc.*	6-12	F	89.7	48	35.4
Riverside Academy	K-12	C	92.8	487	29.0
P.A.C.E. High School*	9-12	F	13.3	215	18.6
Life Skills Center-Middletown (Middletown)*	9-12	C	79.2	219	12.8
Life Skills Center Of Cincinnati*	9-12	F	90.9	248	7.7
Life Skills Center Of Hamilton County*	9-12	C	90.1	199	7.0

Source: CRP analysis of ODE enrollment records

Note: Table 8 is limited to charter schools with average daily enrollment of at least 50 students in school year 2010-2011, and in operation during both school years 2009-2010 and 2010-2011.

3.3 Churn rate

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

District churn rate for Cincinnati Area districts

There were more than 12,000 admissions to and withdrawals from schools in the 21 Cincinnati Area Ring 1 districts during the 2010-2011 school year. For most of these districts, churn in grades K-8 resulted in a net gain of students (more admissions than withdrawals), while the churn in grades 9-12 produced a net loss of students (more withdrawals than admissions).

Cincinnati Public Schools

- CPS had similar churn rates for grades K–8 (16.2%) and grades 9–12 (15.2%) (Table 9).
- Compared to the 15 Major Urban districts, CPS had the 7th lowest grades K–8 churn rate and the lowest grades 9–12 churn rate (Table i). Akron City Schools had the lowest grades K–8 churn rate (12.3%), while East Cleveland City Schools had the greatest churn, with a rate of 23.9% for grades K–8. Toledo City Schools had the highest grades 9–12 rate (31.1%).

Other Cincinnati Area Districts

- Lockland, St. Bernard-Elmwood Place, North College Hill, Mount Healthy, and New Miami had churn rates of more than 20% for both grades K-8 and grades 9-12. Wyoming, Madeira, Indian Hill, Springboro Community, and Mariemont had churn rates of less than 5%.
- In the Cincinnati Area, over half of all districts (27 of 50) have a higher churn rate for grades K–8 than for grades 9–12 (see Maps 5 and 6).

Table 9. Cincinnati Area Ring 1 Districts: One-year churn rates, grades K-8 and 9-12, school year 2010–2011

District	Grades K–8				Grades 9–12				K-12 churn rate (%)
	Oct. 2010 enroll.	Admits	With-drawals	Churn rate (%)	Oct. 2010 enroll.	Admits	With-drawals	Churn rate (%)	
Wyoming	1,327	15	25	3.0	664	6	10	2.4	2.8
Indian Hill	1,320	25	18	3.3	717	14	12	3.6	3.4
Madeira	941	18	12	3.2	447	10	8	4.0	3.5
Mariemont	1,176	29	23	4.4	435	9	11	4.6	4.5
Forest Hills	5,084	127	142	5.3	2,384	53	80	5.6	5.4
Oak Hills	5,253	163	144	5.8	2,541	66	69	5.3	5.7
Sycamore Community	3,438	154	143	8.6	1,771	37	49	4.9	7.4
Southwest	2,394	131	108	10.0	1,022	33	63	9.4	9.8
Deer Park	875	53	46	11.3	333	19	17	10.8	11.2
Three Rivers	1,296	87	75	12.5	525	16	34	9.5	11.6
Finneytown	986	59	71	13.2	517	17	30	9.1	11.8
Northwest	6,120	388	370	12.4	2,960	124	208	11.2	12.0
Reading Community	1,125	66	74	12.4	408	13	32	11.0	12.1
Cincinnati	21,716	1,884	1,644	16.2	10,186	437	1,116	15.2	15.9
Princeton	3,593	287	298	16.3	1,589	160	171	20.8	17.7
Winton Woods	2,245	199	219	18.6	1,021	84	110	19.0	18.7
Norwood	1,560	111	183	18.8	566	44	80	21.9	19.7
Mt. Healthy	2,574	298	292	22.9	808	79	116	24.1	23.2
North College Hill	1,090	134	132	24.4	408	35	48	20.3	23.3
St. Bernard-Elmwood Plc.	650	78	92	26.2	247	18	34	21.1	24.7
Lockland	398	82	76	39.7	202	23	29	25.7	35.0
Total Ring 1	**65,161**	**4,388**	**4,187**		**29,751**	**1,297**	**2,327**		

Less churn → *More churn* (vertical label, right margin)

Source: CRP analysis of ODE enrollment records Note: Grade is student's highest grade level during school year 2010–2011.

Maps 5 and 6. Cincinnati Area: One-year district churn rate for grades K–8 and 9–12, school year 2010–2011

Churn rate, K-8
- Less than 5%
- 5.0 - 9.9%
- 10.0 - 14.9%
- 15.0 - 19.9%
- 20.0 - 29.9%
- 30% or greater

Names of small districts bordering CPS

Churn rate, 9-12
- Less than 5%
- 5.0 - 9.9%
- 10.0 - 14.9%
- 15.0 - 19.9%
- 20% or greater

Names of small districts bordering CPS
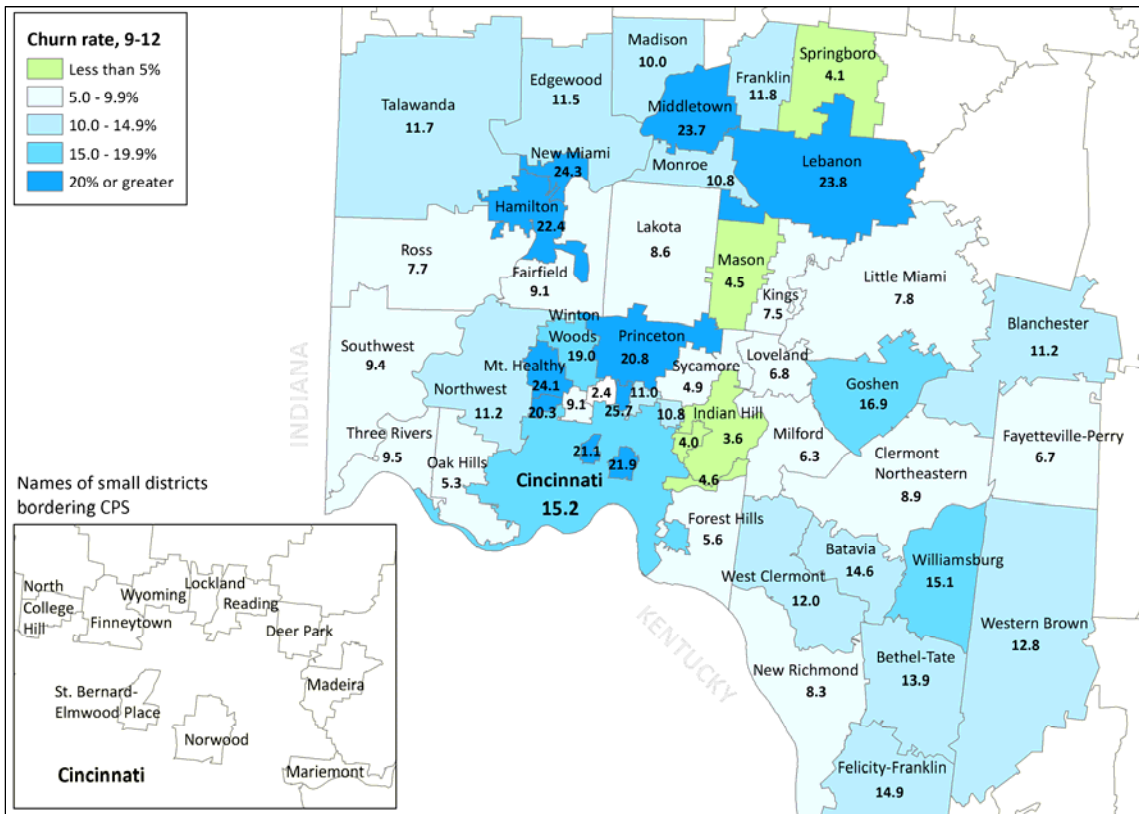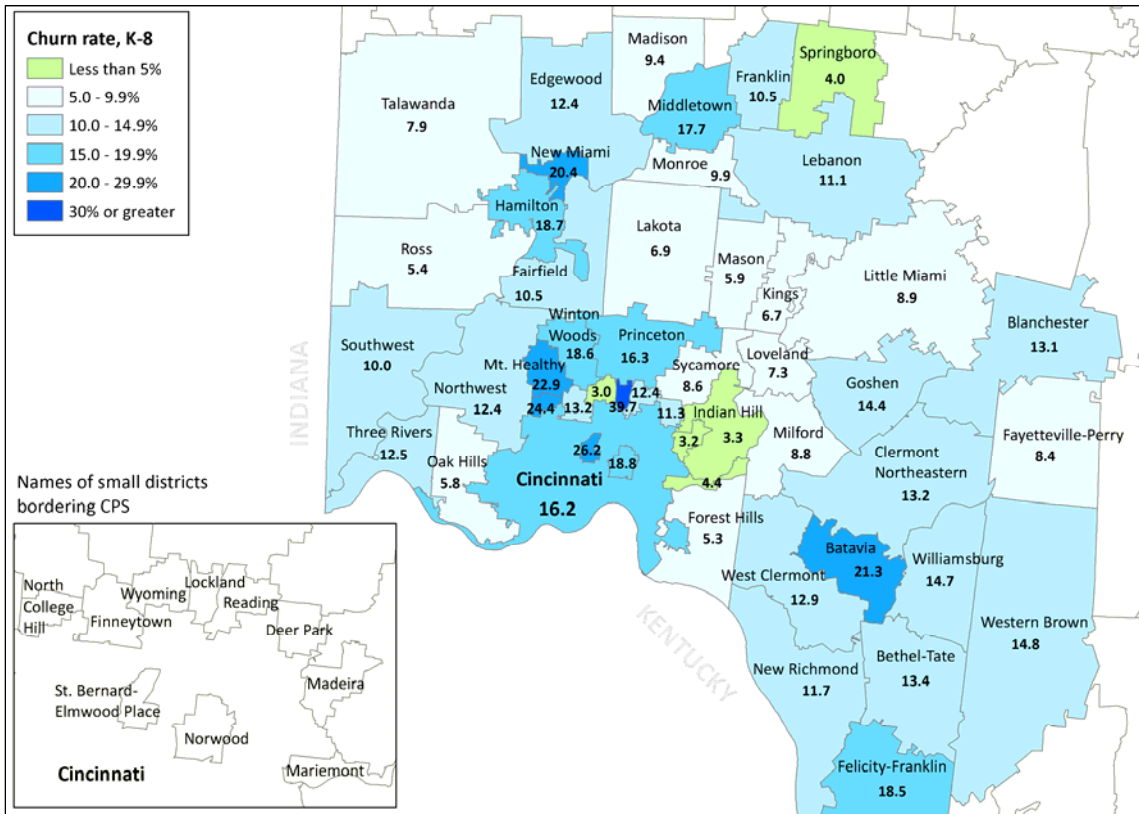
Source: CRP analysis of ODE enrollment records

Building churn rate for Cincinnati Public Schools

Many of the CPS schools with low churn rates are magnet schools (Table 10). CPS buildings with the highest churn rates have school year admissions and withdrawals equivalent to more than one-third of total enrollment (Table 11).

Table 10. CPS: 30 *lowest* building churn rates, school year 2010–2011

School building	Grade range	Rating	Econ. Disadv. (%)	Oct. 2010 enroll.	Churn rate (%)
Fairview-Clifton German Language School	PK-6	A	21.6	698	1.1
Dater Montessori Elementary School	PK-6	A	49.6	659	1.7
Sands Montessori Elementary School	PK-6	A	28.1	650	2.5
Walnut Hills High School	7-12	A	19.8	2,181	3.5
School For Creative & Performing Arts High	K-12	A	51.0	1,424	3.7
Winton Montessori Elementary School	PK-6	C	78.4	372	4.0
Clark Montessori High School	7-12	B	32.1	698	4.7
North Avondale Montessori Elementary School	PK-6	B	45.1	502	5.6
Kilgour Elementary School	K-6	A	18.1	624	6.4
Shroder Paideia High School	7-12	C	72.5	728	6.7
Hughes STEM High School	9-10	B	77.2	532	7.7
Woodford Paideia Elementary School	PK-6	C	80.9	464	7.8
Withrow University High School	9-12	B	67.7	809	8.7
Roberts Academy: A Paideia Learning Community	PK-8	C	93.5	665	9.0
Hughes Center High School	11-12	C	69.7	398	9.3
College Hill Fundamental Academy	PK-6	A	79.0	497	10.3
Academy for Multilingual Immersion Studies	PK-8	C	89.0	496	10.7
Silverton Paideia Elementary School	PK-6	B	81.9	333	10.8
James N. Gamble Montessori High School	7-10	C	53.2	309	11.0
Covedale Elementary School	K-6	A	54.7	558	11.8
Academy Of World Languages Elementary School	PK-8	D	89.7	558	15.2
Gilbert A. Dater High School	7-12	C	60.1	797	16.3
Woodward Career Technical High School	9-12	C	75.9	1,009	19.9
Western Hills University High School	9-12	B	75.3	696	20.5
Withrow International High School	9-12	C	72.0	598	20.6
Midway Elementary School	PK-8	D	86.3	608	22.4
Riverview East Academy	PK-12	C	77.1	473	22.8
Mt. Washington Elementary School	PK-8	A	64.2	463	23.1
Sayler Park Elementary School	PK-8	B	85.5	318	23.6
Aiken College and Career High School	9-12	B	75.5	721	24.7

Source: CRP analysis of ODE enrollment records

Note: Tables 10 and 11 are limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Table 11. CPS: 30 *highest* building churn rates, school year 2010–2011

School building	Grade range	Rating	Econ. Disadv. (%)	Oct. 2010 enroll.	Churn rate (%)
Mt. Washington Elementary School	PK-8	A	64.2	463	23.1
Sayler Park Elementary School	PK-8	B	85.5	318	23.6
Aiken College and Career High School	9-12	B	75.5	721	24.7
Pleasant Ridge Montessori School	PK-6	F	69.4	490	25.5
William H Taft Elementary School	PK-8	C	94.4	274	27.7
Cheviot Elementary School	PK-8	C	83.1	567	28.6
Roselawn Condon Elementary School	PK-8	C	86.0	406	29.1
Robert A. Taft Information Technology High	9-12	A	72.6	519	29.1
Winton Hills Academy Elementary School	PK-8	C	>95.0	438	29.5
Bond Hill Academy Elementary School	PK-8	C	90.8	416	31.5
Carson Elementary School	PK-8	C	90.6	725	37.1
Pleasant Hill Elementary School	PK-8	D	89.2	646	38.7
Frederick Douglass Elementary School	PK-8	C	>95.0	387	39.0
Rothenberg Preparatory Academy	PK-8	C	>95.0	281	39.1
Mt. Airy Elementary School	PK-8	C	91.3	634	39.3
Western Hills Engineering High School	9-12	F	69.4	443	39.5
Rockdale Academy Elementary School	PK-8	D	91.5	392	39.5
Hartwell Elementary School	PK-8	B	83.2	436	40.4
Ethel M. Taylor Academy	K-8	D	83.0	387	40.6
Westwood Elementary School	PK-8	D	89.5	300	41.7
John P Parker Elementary School	PK-8	C	86.1	433	43.2
Roll Hill School	PK-8	C	91.2	517	43.3
South Avondale Elementary School	PK-8	B	94.5	492	44.3
Oyler School	PK-12	C	85.4	640	46.1
Hoffman-Parham Elementary School	PK-8	C	91.4	379	47.0
Rees E. Price Elementary School	PK-8	C	90.5	521	50.9
Chase Elementary School	PK-8	C	94.0	315	53.0
George Hays-Jennie Porter Elementary	PK-8	C	>95.0	318	54.1
Quebec Heights Elementary School	PK-8	F	89.0	380	56.1
Virtual High School	9-12	D	55.0	328	116.5

Building churn rate for physical charter schools

Physical charter schools in the Cincinnati Area (Table 12) range from very high—primarily dropout recovery schools—to those with rates below 15%. The range of physical charter school turnover rates is similar to that of CPS buildings.

Table 12. Cincinnati Area: Churn rates for physical charter schools, school year 2010–2011

School *(District location if other than CPS) *Dropout recovery school*	Grade range	Rating	Econ. disadv. (%)	Oct. 2010 enroll.	Churn rate
T.C.P. World Academy	K-6	A	83.0	446	3.6
Cincinnati College Preparatory Academy	K-12	B	95.0	710	3.8
Hamilton County Math & Science (Northwest)	K-8	A	73.5	419	6.9
Phoenix Community Learning Center	K-8	B	85.1	388	12.6
Richard Allen Academy III (Hamilton)	K-8	C	92.1	180	13.9
King Academy Community School	K-8	C	94.8	142	14.8
Summit Academy Community School for Alternative Learners of Middletown (Middletown)	K-10	F	60.8	92	15.2
Mount Auburn International Academy	K-12	D	65.3	521	15.7
Mt. Healthy Preparatory and Fitness Academy (Mt. Healthy)	K-8	B	76.4	227	15.9
Cincinnati Leadership Academy	K-8	D	51.7	204	17.6
Middletown Fitness & Preparatory Academy (Middletown)	K-8	C	78.3	287	20.9
Orion Academy	K-8	D	>95.0	622	21.1
V L T Academy	K-12	C	>95.0	868	22.0
Horizon Science Academy-Cincinnati	K-12	B	93.2	359	24.5
Summit Academy Transition High School-Cincinnati	9-12	B	36.2	54	29.6
Cincinnati Speech & Reading Intervention Center	K-8	F	78.4	318	29.9
Summit Academy Cincinnati	1-8	F	47.2	84	31.0
Alliance Academy of Cincinnati	K-8	C	>95.0	379	33.0
East End Community Heritage School	K-12	F	73.1	98	35.7
College Hill Leadership Academy	K-6	C	>95.0	65	43.1
Riverside Academy	K-12	C	92.8	244	43.4
Theodore Roosevelt Public Community School	K-12	F	91.2	205	56.6
Lighthouse Community School Inc.*	6-12	F	89.7	62	91.9
P.A.C.E. High School*	9-12	F	13.3	190	110.0
Dohn Community*	9-12	F	83.0	142	138.7
Life Skills Center Of Cincinnati*	9-12	F	90.9	274	168.2
Life Skills Center Of Hamilton County*	9-12	C	90.1	205	168.3
Life Skills Center-Middletown (Middletown)*	9-12	C	79.2	236	175.4

Source: CRP analysis of ODE enrollment records

Note: Table 12 is limited to charter schools with average daily enrollment of at least 50 students in school year 2010-2011.

4.0 Mobility patterns

4.1 Section overview and key concepts

This section of the report examines the patterns of student movement between school districts and buildings and between public districts and charter schools, as well as the characteristics of origin and destination schools. The analysis of mobility patterns includes: (1) district and building mobility patterns, (2) report card ratings of origin and destination schools, and (3) inter-district open enrollment analysis.

> *This report provides an overview of mobility patterns among Cincinnati Area schools. Additional mobility pattern data for districts, buildings, and charter schools can be found in the Appendix and online spreadsheets* www.researchpartners.org.

Mobility patterns: districts and buildings that exchange students

How many unique students did pairs of buildings or districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts and buildings?

- **District mobility patterns:** The number of unique students enrolled in two school districts, or a district and a charter school, at some point over two school years (2009-2010 and 2010-2011).
- **Building mobility patterns:** The number of unique students enrolled in two school buildings at some point over two school years (2009-2010 and 2010-2011), including buildings within the same district and buildings in different districts

Data notes

- The mobility patterns analysis includes all combinations of: public school districts and buildings, physical charter schools, and e-charter schools. Vocational schools are excluded. A small percentage of results from dual enrollment; however, most involve non-overlapping enrollment periods.
- A student is counted only once, even if they move between a pair of schools more than once.

Origin and destination ratings: report card rating of schools that exchange students

What is the performance rating of the destination school of mobile students, compared to that of the school of origin?

- **Origin and destination performance ratings:** The school year 2010-2011 state report card rating of the origin and destination schools for the most recent move of students who changed schools during a two school year period (2009-2010 and 2010-2011).

Data notes

- Statewide, 20% of students who withdraw from an Ohio public school have no enrollment destination information in EMIS the following October.

Inter-district open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

- **Open enrollment, incoming:** Number and percent of students attending a school in a district through open enrollment policy.
- **Open enrollment, outgoing:** Number and percent of public school students residing in a district, but attending a different district through open enrollment policy.

Data notes

- Open enrollment is the most common reason, but not the only reason, that a student may reside in one district, but attend another.

4.2   District mobility patterns

How many unique students did pairs of districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts?

District mobility patterns between Cincinnati Public Schools and other districts

Over two school years, the 50 public districts in the Cincinnati Area exchanged 19,226 students. The largest numbers of exchanges were between districts in close proximity to each other, but CPS also exchanged students with other Major Urban districts across the state. Mount Healthy and Northwest exchanged at least 500 students with CPS over a two year period (Table 13; Maps 7 and 8). Thirteen other Ohio districts exchanged at least 100 students with CPS, including Dayton and Columbus.

Table 13. Top 30 districts that exchanged students with CPS, October 2009–May 2011

District	Location	District rating	Econ. Disadv. (%)	Total students exchanged	Grades K–7		Grades 8–11	
					To CPS	From CPS	To CPS	From CPS
Mt. Healthy	Ring 1	C	76.1	653	221	290	77	65
Northwest	Ring 1	B	45.1	582	142	273	69	98
Princeton	Ring 1	B	58.6	410	95	115	95	105
North College Hill	Ring 1	C	68.8	355	104	159	36	56
Winton Woods	Ring 1	C	57.7	297	83	110	47	57
Oak Hills	Ring 1	A	6.5	270	69	135	28	38
Norwood	Ring 1	A	60.4	214	72	99	16	27
St. Bernard-Elmwood Place	Ring 1	B	72.0	194	57	79	31	27
Fairfield	Ring 2	B	29.4	155	47	62	24	22
West Clermont	Ring 2	A	31.4	143	41	62	18	22
Lakota	Ring 2	A+	14.6	139	36	61	24	18
Finneytown	Ring 1	B	36.2	125	39	50	22	14
Hamilton	Ring 2	C	69.2	119	45	45	19	10
Forest Hills	Ring 1	A+	10.8	117	40	41	12	24
Lockland	Ring 1	C	62.9	91	36	29	12	14
Middletown	Ring 2	C	71.5	81	31	27	13	10
Three Rivers	Ring 1	A	35.8	77	14	45	7	11
Dayton	Other Ohio	C	92.5	67	23	22	9	13
Sycamore Community	Ring 1	A+	16.0	65	19	31	10	5
Columbus	Other Ohio	C	81.9	63	23	16	11	13
Southwest	Ring 1	A	34.5	63	23	28	4	8
Reading Community	Ring 1	A	38.9	59	24	23	6	6
Milford	Ring 2	A	21.7	53	15	26	6	6
Deer Park	Ring 1	A	40.9	38	9	21	3	5
Goshen	Ring 2	A	47.8	36	8	18	5	5
New Richmond	Ring 2	A+	44.4	33	14	18	0	1
Wyoming	Ring 1	A	6.6	32	6	14	6	6
Lebanon	Ring 2	A	23.5	31	9	14	4	4
Batavia	Ring 2	A	44.0	31	9	17	4	1
Mason	Ring 2	A+	6.4	30	8	14	2	6
Total top 30 districts				***4,623***	***1,362***	***1,944***	***620***	***697***

Source: CRP analysis of ODE enrollment records

Notes: Grade is the student's highest grade level during school year 2009–10. A student may have been enrolled in another district, charter school, or outside the Ohio public system between the periods of enrollment in the districts paired above. For example, a student who moves from CPS to Mt. Healthy to Northwest schools would be included in two pairs: CPS/Mt. Healthy and CPS/Northwest. Totals include only those students for whom grade level is available for school year 2009–10.

Maps 7 and 8. Students moving between CPS and another district in the Cincinnati Area, October 2009–May 2011
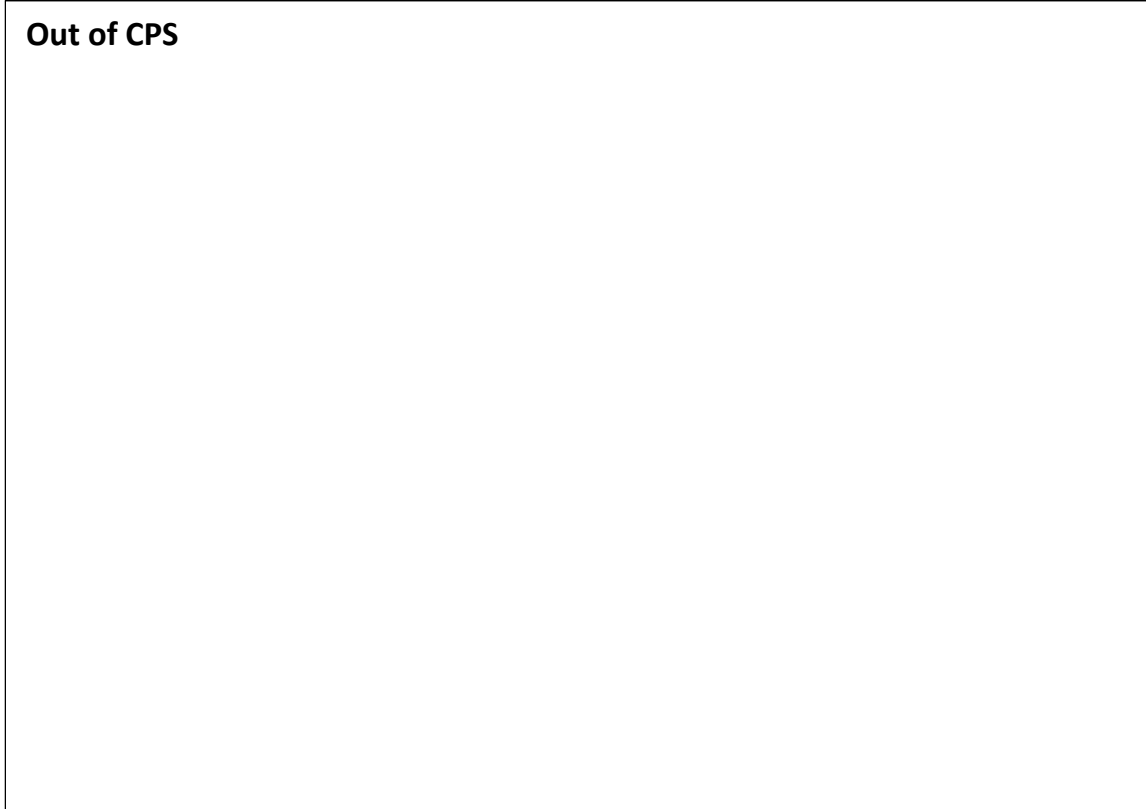
Into CPS

Out of CPS

Source: CRP analysis of ODE enrollment records

District mobility patterns among Cincinnati Area districts

Over two years, there were 8,305 student exchanges among the 25 largest Cincinnati Area districts (excluding CPS). The Hamilton, Lakota, Northwest, and Middletown districts had the most inter-district exchanges. Districts that exchanged more than 175 students were Hamilton and Fairfield, Hamilton and Middletown, Hamilton and Lakota, Lakota and Fairfield, Hamilton and Talawanda, Princeton and Lakota, and Northwest and Mt. Healthy.

Table 14. Cincinnati Area largest 25 districts (excluding CPS): Students exchanged between pairs of districts, October 2009–May 2011

ORIGIN DISTRICT \ DESTINATION DISTRICT	Edgewood	Fairfield	Forest Hills	Franklin	Hamilton	Kings	Lakota	Lebanon	Little Miami	Loveland	Mason	Middletown	Milford	Mt Healthy	Northwest	Oak Hills	Princeton	Ross	Southwest	Springboro	Sycamore	Talawanda	West Clermont	Western Brown	Winton Woods
Edgewood		26	-	10	80	-	20	5	4	1	-	92	-	-	3	-	1	10	2	3	1	26	3	-	1
Fairfield	36		6	2	244	3	99	12	8	8	14	36	6	26	66	12	46	25	8	7	8	23	11	2	47
Forest Hills	-	3		-	1	-	7	2	-	2	9	1	9	1	6	3	12	-	1	-	5	-	85	5	2
Franklin	17	5	-		5	3	2	34	5	-	1	69	2	-	1	-	-	1	-	11	-	2	4	-	-
Hamilton	80	219	1	10		10	93	13	4	5	11	141	6	20	43	12	37	66	10	2	5	96	26	12	21
Kings	2	5	1	2	5		11	55	33	15	25	15	7	1	1	4	9	-	1	4	11	-	6	-	1
Lakota	38	110	10	2	124	21		28	11	15	72	43	10	24	35	14	78	6	5	6	17	12	22	1	24
Lebanon	5	11	2	56	16	58	23		51	4	53	52	9	-	2	4	8	2	-	24	1	5	16	-	2
Little Miami	2	3	2	5	1	63	15	101		15	23	5	20	-	1	5	3	1	4	9	19	1	7	5	-
Loveland	-	3	7	1	4	7	8	9	11		14	3	30	3	8	3	3	-	2	2	17	-	8	7	5
Mason	1	5	6	2	6	15	41	25	12	4		6	5	1	5	-	14	2	-	4	13	-	2	-	-
Middletown	89	29	-	71	104	14	53	52	14	2	7		6	1	13	1	10	7	6	9	1	22	2	1	3
Milford	-	7	11	-	12	5	15	7	15	13	8	3		3	7	6	11	1	1	2	9	3	88	14	1
Mt Healthy	1	50	3	-	48	1	45	1	-	-	3	7	3		109	4	57	1	9	2	7	6	9	1	90
Northwest	6	101	7	1	47	2	45	10	1	6	6	15	3	131		36	55	37	28	-	12	4	9	3	69
Oak Hills	-	6	4	-	4	2	20	1	-	7	2	3	4	10	36		4	5	35	2	5	-	10	3	3
Princeton	2	73	3	-	26	12	103	7	8	10	21	13	10	22	39	7		6	2	1	18	5	22	-	59
Ross	5	15	1	-	47	1	6	-	3	1	1	4	3	1	14	1	4		10	-	2	20	1	-	-
Southwest	-	4	4	-	18	1	5	-	-	3	3	-	-	4	15	26	2	10		-	-	2	4	-	3
Springboro	-	1	1	17	-	5	3	27	1	-	1	13	3	-	-	2	-	-	-		2	-	2	-	-
Sycamore	1	5	-	-	3	4	11	1	2	7	38	-	9	4	8	1	23	1	1	-		-	-	3	3
Talawanda	22	22	2	7	87	1	7	2	1	-	-	11	2	-	7	-	-	4	1	1	-		6	-	1
West Clermont	3	5	50	1	26	7	13	12	16	11	9	16	64	3	17	13	3	3	4	1	3	2		54	-
Western Brown	2	1	5	-	4	2	-	2	4	1	-	-	22	7	5	2	2	-	1	1	-	1	64		-
Winton Woods	-	90	2	-	41	1	51	-	4	2	10	9	2	68	57	5	90	-	1	1	5	2	3	1	

Source: CRP analysis of ODE enrollment records

District mobility patterns between Cincinnati Public Schools and charter schools

Over two years, the 30 largest charter schools exchanged a total of 3,773 students with CPS schools (Table 15). Eleven charter schools exchanged at least 150 students with CPS, led by V L T Academy (349) and eCOT (308). For grades K–7, more students came to CPS from charter schools (1,428) than went to charter schools from CPS (837). For grades 8-11, more students went to a charter school from CPS (898) than came to CPS (610) from a charter school.

Table 15. Top 30 charter schools in students exchanged with CPS, October 2009–May 2011

Charter school *e-charters in italics* *Dropout recovery school*	Rating	Econ. disad v. (%)	Total students exchanged	Grades K–7		Grades 8–11	
				To CPS	From CPS	To CPS	From CPS
V L T Academy	C	95.5	349	160	110	51	28
Electronic Classroom Of Tomorrow	C	76.9	308	36	47	58	167
Orion Academy	D	95.5	300	167	110	23	0
Alliance Academy of Cincinnati	C	95.5	227	167	26	34	0
Life Skills Ctr Of Cincinnati*	F	90.9	215	0	0	31	184
Horizon Science Academy-Cincinnati	B	93.2	209	80	50	60	19
Riverside Academy	C	92.8	207	98	42	62	5
Mount Auburn International Academy	D	65.3	195	117	40	34	4
Phoenix Community Learning Ctr	B	85.1	192	86	69	36	1
Ohio Virtual Academy	B	55.3	161	42	59	17	43
Dohn Community*	F	83.0	158	0	1	21	136
Life Skills Center Of Hamilton County*	C	90.1	140	0	0	29	111
Cincinnati Speech & Reading Intervention Center	F	78.4	136	84	52	0	0
W.E.B. Dubois	NA	-	124	100	1	23	0
Theodore Roosevelt Public Community School	F	91.2	113	26	40	23	24
Cincinnati College Preparatory Academy	B	95	108	57	26	18	7
P.A.C.E. High School*	F	13.3	99	0	1	24	74
East End Comm Heritage School	F	73.1	79	26	15	29	9
Cincinnati Leadership Academy	D	51.7	68	48	20	0	0
Lighthouse Community Sch Inc*	F	89.7	61	1	5	9	46
T.C.P. World Academy	A	83.0	61	37	24	0	0
Mt. Healthy Preparatory and Fitness Academy	B	76.4	53	24	26	3	0
College Hill Leadership Academy	C	95.5	37	5	32	0	0
King Academy Community School	C	94.8	35	22	4	9	0
Virtual Community School Of Ohio	C	79.2	33	4	5	7	17
Ohio Connections Academy, Inc	B	54.1	33	13	8	3	9
Hamilton Cnty Math & Science	A	73.5	32	16	14	2	0
Alternative Education Academy	D	54.1	25	8	4	3	10
Summit Academy Cincinnati	F	47.2	10	4	6	0	0
Life Skills Center of Dayton*	F	89.6	5	0	0	1	4
Total top 30 charter schools			*3,773*	*1,428*	*837*	*610*	*898*

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2009–2010.

Cincinnati Public Schools mobility patterns summary: other districts and charters

Over two school years, 7,692 unique students transferred between CPS and another Ohio district or charter school (Table 16). Of these:

- 58% moved to or from another district

- 36% moved to or from a physical charter school

- 7% moved to or from an e-charter school

The largest number of moves to and from other districts or charters occurred among 9th grade students (935), followed by kindergarten (692), 8th grade (660), and 1st grade (659).

**Table 16. Students moving into or out of CPS by grade and origin/destination type,
Oct. 2009–May 2011**

Grade	Another public district		Physical charter school		E-charter school	
	To CPS	From CPS	To CPS	From CPS	To CPS	From CPS
All grades	1,616	2,812	1,449	1,314	134	367
K	155	303	89	135	4	6
1	153	282	111	100	4	9
2	126	237	148	96	8	8
3	129	263	123	75	11	12
4	130	233	116	101	6	13
5	120	215	128	63	7	21
6	133	223	169	64	13	23
7	113	191	116	51	12	22
8	100	237	190	60	17	56
9	158	248	104	301	16	108
10	94	151	52	133	12	42
11	76	70	30	79	8	23
12	29	16	14	31	3	11
NA	100	143	59	25	13	13

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2009–2010; NA- grade level not available.

4.3   Building mobility patterns

How many unique students did pairs of buildings have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these buildings?

Exchanges between Cincinnati Public Schools buildings and buildings in other districts

Because of their size, the largest numbers of CPS inter-district building moves occurred at the high school level. Only seven of the top 30 exchanges involved elementary schools. CPS Aiken College and Career, Woodward Career Technical, and Western Hills Engineering high schools exchanged a total of at least 50 students each with high schools in the Mount Healthy, North College Hill, Northwest, Princeton, and Winton Woods districts. CPS Mount Airy and Pleasant Hill elementary schools exchanged a total of at least 50 students each with elementary schools in the North College Hill, Northwest, and Mount Healthy districts (Table 17).

Table 17. CPS and other districts: 30 building pairs that exchanged the most students, October 2009–May 2011

CPS school building (X)	Rating Bldg. X	School building in another district (Y)	District of Building Y	Rating Bldg. Y	Students exchanged
Woodward Career Technical High	C	Princeton High	Princeton	B	50
Woodward Career Technical High	C	Mt Healthy High	Mt Healthy	C	31
Aiken College and Career High	B	Princeton High	Princeton	B	26
Mt. Airy Elementary	C	North Elementary	Mt Healthy	C	25
Aiken College and Career High	B	Colerain High	Northwest	A	25
Aiken College and Career High	B	North College Hill High	North College Hill	B	24
Western Hills Engineering High	F	Princeton High	Princeton	B	23
Winton Hills Academy Elementary	C	South Elementary	Mt Healthy	C	22
Aiken College and Career High	B	Mt Healthy High	Mt Healthy	C	22
Pleasant Hill Elementary	D	Mt Healthy Junior High	Mt Healthy	F	21
Pleasant Hill Elementary	D	South Elementary	Mt Healthy	C	21
Robert A. Taft Information Technology High	A	Princeton High	Princeton	B	20
Hartwell Elementary	B	St Bernard-Elmwood Place High	St Bernard-Elmwood Place	B	19
Mt. Airy Elementary	C	South Elementary	Mt Healthy	C	19
Mt. Airy Elementary	C	North College Hill Elementary	North College Hill	C	19
Hartwell Elementary	B	Elmwood Place Elementary	St Bernard-Elmwood Place	B	19
Mt. Airy Elementary	C	Mt Healthy Junior High	Mt Healthy	F	18
Aiken College and Career High	B	Winton Woods High	Winton Woods	B	17
Chase Elementary	C	South Elementary	Mt Healthy	C	17
Rees E. Price Elementary	C	South Elementary	Mt Healthy	C	16
Mt. Airy Elementary	C	White Oak Middle	Northwest	B	16
Western Hills Engineering High	F	Colerain High	Northwest	A	16
Western Hills University High	B	Princeton High	Princeton	B	15
Woodward Career Technical High	C	Winton Woods High	Winton Woods	B	15
Western Hills Engineering High	F	North College Hill High	North College Hill	B	14
South Avondale Elementary	B	South Elementary	Mt Healthy	C	14
Virtual High	D	Princeton High	Princeton	B	14
Pleasant Hill Elementary	D	North College Hill Elementary	North College Hill	C	14
Mt. Airy Elementary	C	Taylor Elementary	Northwest	A	13
Pleasant Hill Elementary	D	North Elementary	Mt Healthy	C	13

Source: CRP analysis of ODE enrollment records

Exchanges between Cincinnati Public Schools buildings and charter schools

Over two years, the CPS buildings and the charter schools that exchanged the most students exchanged a total of 1,010 students. Of the exchanges in Table 18, 30% involved exchanges between a CPS high school and a dropout recovery charter school, and 15% were exchanges with e-charters. Orion Academy and V L T Academy each exchanged students with five CPS elementary schools.

Table 18. CPS and charter schools: 30 building pairs that exchanged the most students, October 2009–May 2011

CCS school building (X)	Rating Bldg. X	Physical charter school (Y) E-charter in italics * for dropout recovery	Rating Bldg. Y	Students exchanged
Oyler School	C	Riverside Academy	C	61
Woodward Career Technical High School	C	Life Skills Ctr Of Cincinnati*	F	59
Woodward Career Technical High School	C	Life Skills Center Of Hamilton County*	C	59
Oyler School	C	*Electronic Classroom Of Tomorrow*	C	55
Gilbert A. Dater High School	C	*Electronic Classroom Of Tomorrow*	C	49
Rothenberg Preparatory Academy	C	V L T Academy	C	42
Hoffman-Parham Elementary School	C	Alliance Academy of Cincinnati	C	40
South Avondale Elementary School	B	Phoenix Community Learning Ctr	B	39
Carson Elementary School	C	Orion Academy	D	36
Oyler School	C	T. Roosevelt Public Community School	F	35
Roll Hill School	C	Orion Academy	D	32
Ethel M. Taylor Academy	D	Orion Academy	D	32
Western Hills University High School	B	Dohn Community*	F	32
Rees E. Price Elementary School	C	Orion Academy	D	31
Roll Hill School	C	V L T Academy	C	30
Western Hills University High School	B	Life Skills Ctr Of Cincinnati*	F	29
Western Hills Engineering High School	F	Life Skills Ctr Of Cincinnati*	F	29
Midway Elementary School	D	Orion Academy	D	28
Western Hills University High School	B	*Electronic Classroom Of Tomorrow*	C	27
Woodward Career Technical High School	C	P.A.C.E. High School*	F	26
Woodward Career Technical High School	C	Dohn Community*	F	26
Virtual High School	D	*Electronic Classroom Of Tomorrow*	C	26
South Avondale Elementary School	B	V L T Academy	C	25
Carson Elementary School	C	Riverside Academy	C	25
Aiken College and Career High School	B	Life Skills Ctr Of Cincinnati*	F	25
Virtual High School	D	Life Skills Ctr Of Cincinnati*	F	24
Aiken College and Career High School	B	Dohn Community*	F	22
South Avondale Elementary School	B	Alliance Academy of Cincinnati	C	22
Frederick Douglass Elementary School	C	V L T Academy	C	22
Rees E. Price Elementary School	C	V L T Academy	C	22

Source: CRP analysis of ODE enrollment records

Exchanges between Cincinnati Public Schools buildings

Over the two school years, 4,657 CPS students made a non-promotional change of school within the CPS district. Of these, about one-third occurred among students in grades K, 7, and 9. Of the exchanges in Table 19, South Avondale Elementary was the most frequent receiving school, followed by Rees E. Price Elementary, Western Hills University High, and Virtual High. The most frequent sending schools were Aiken College and Career High, Carson Elementary, Virtual High, and Frederick Douglass Elementary.

Table 19. CPS: 30 building pairs that exchanged the most students, October 2009–May 2011

CPS building (X)	Rating of Building X	CPS building (Y)	Rating of Building Y	Students exchanged
Carson Elementary	C	Rees E. Price Elementary	C	74
Carson Elementary	C	Quebec Heights Elementary	F	71
Gilbert A. Dater High	C	Walnut Hills High	A	70
Quebec Heights Elementary	F	Rees E. Price Elementary	C	62
Mt. Airy Elementary	C	Pleasant Hill Elementary	D	60
Rockdale Academy Elementary	D	South Avondale Elementary	B	53
Virtual High	D	Western Hills University High	B	51
Frederick Douglass Elementary	C	South Avondale Elementary	B	50
Virtual High	D	Woodward Career Technical High	C	50
Frederick Douglass Elementary	C	Hoffman-Parham Elementary	C	46
George Hays-Jennie Porter Elementary	C	Rothenberg Preparatory Academy	C	46
Western Hills Engineering High	F	Western Hills University High	B	45
Aiken College and Career High	B	Virtual High	D	42
Quebec Heights Elementary	F	Roll Hill	C	41
Chase Elementary	C	Mt. Airy Elementary	C	40
Hoffman-Parham Elementary	C	South Avondale Elementary	B	40
Rees E. Price Elementary	C	Roll Hill	C	40
Aiken College and Career High	B	Woodward Career Technical High	C	37
Aiken College and Career High	B	Robert A. Taft Info. Technology High	A	37
Hoffman-Parham Elementary	C	William H Taft Elementary	C	36
Hoffman-Parham Elementary	C	Rockdale Academy Elementary	D	34
Roll Hill	C	Westwood Elementary	D	34
Rothenberg Preparatory Academy	C	South Avondale Elementary	B	34
Aiken College and Career High	B	Western Hills Engineering High	F	33
Aiken College and Career High	B	Western Hills University High	B	33
Bond Hill Academy Elementary	C	Roselawn Condon Elementary	C	33
Hughes Center High	C	Virtual High	D	33
Robert A. Taft Info. Technology High	A	Virtual High	D	33
Virtual High	D	Withrow University High	B	33
Frederick Douglass Elementary	C	Rockdale Academy Elementary	D	32

Source: CRP analysis of ODE enrollment records

4.4 Origin and destination performance ratings

What is the performance rating of the destination school of mobile students, compared to the rating of the school of origin?

Tables 20-25 display the school year 2010–2011 state report card performance rating of the origin school and destination school for the most recent move a student made over a two school year period, where one of the schools was in the CPS district. Green table cells denote a destination school that is at least two ratings higher than the origin school, and orange cells denote a destination that is at least two rating lower than the origin schools. These tables exclude school changes involving a building with no rating available.

Exiting Cincinnati Public Schools for another district

Of the 2,626 students over two years who exited CPS for another district, 32.9% moved to a school with a performance rating at least two ratings *higher* than their CPS school of origin, while 4.5% moved to a school with a rating two or more ratings *lower* than their school of origin.

Table 20. Rating of origin and destination buildings for students *exiting* CPS for another district, Oct. 2009–May 2011

n=2,626 moves	Rating of **DESTINATION** school in other Ohio district					
Rating of **ORIGIN** CPS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	0	0	0
Excellent (A)	50	232	110	52	4	5
Effective (B)	25	137	146	67	4	4
Continuous Improvement (C)	81	401	439	317	21	49
Academic Watch (D)	29	84	102	101	5	20
Academic Emergency (F)	9	46	52	34	0	0

Source: CRP analysis of ODE enrollment records

Entering Cincinnati Public Schools from another district

Of the 1,441 students over two years who entered CPS from another district, 3.7% moved to a CPS school with a performance rating at least two ratings *higher* than their school of origin, while 30.6% moved to a CPS school with a rating two or more ratings *lower* than their school of origin.

Table 21. Rating of origin and destination buildings for students *entering* CPS from another district, Oct. 2009–May 2011

n=1,441 moves	Rating of **DESTINATION** CPS school					
Rating of **ORIGIN** in other Ohio district	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	29	13	48	13	3
Excellent (A)	0	98	105	173	35	32
Effective (B)	0	72	97	259	60	49
Continuous Improvement (C)	0	19	47	163	45	15
Academic Watch (D)	0	1	7	19	3	0
Academic Emergency (F)	0	1	8	18	8	1

Source: CRP analysis of ODE enrollment records

Exiting Cincinnati Public Schools for a charter school

Of the 1,676 students over two years who left CPS for a charter school, 7.8% moved to a charter school with a performance rating at least two ratings *higher* than their CPS school of origin, while 30.8% moved to a charter school with a rating two or more ratings *lower* than their school of origin.

Table 22. Rating of origin and destination buildings for students *exiting* CPS for a public charter school (including e-charters), October 2009–May 2011

n=1,676 moves	Rating of **DESTINATION** charter school					
Rating of **ORIGIN** CPS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	0	0	0
Excellent (A)	0	1	35	32	13	39
Effective (B)	0	4	66	102	17	147
Continuous Improvement (C)	0	15	149	356	109	268
Academic Watch (D)	0	9	47	65	27	59
Academic Emergency (F)	0	8	14	38	14	42

Entering Cincinnati Public Schools from a charter school

Of the 1,510 students over two years who entered CPS from a charter school, 18.1% moved to a CPS school with a performance rating at least two ratings *higher* than their school of origin, while 9.0% moved to a CPS school with a rating two or more ratings *lower* than their school of origin.

Table 23. Rating of origin and destination buildings for students *entering* CPS from a public charter school (including e-charters), October 2009–May 2011

n=1,510	Rating of **DESTINATION** CPS school					
Rating of **ORIGIN** charter school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	0	0	0
Excellent (A)	0	13	8	21	10	2
Effective (B)	0	29	62	176	49	28
Continuous Improvement (C)	0	31	105	350	55	26
Academic Watch (D)	0	24	32	171	70	20
Academic Emergency (F)	0	20	43	124	27	14

Moving between Cincinnati Public Schools buildings

Of the 4,657 students over two years who moved from one CPS building to another, 13.7% moved to a building with a performance rating at least two ratings *higher* than their CPS school of origin, while 15.9% moved to a building with a rating two or more ratings *lower* than their school of origin.

Table 24. Rating of origin and destination buildings for students changing schools *within* the CPS district, October 2009–May 2011

n=4,657 moves	Rating of **DESTINATION** CPS school					
Rating of **ORIGIN** CPS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	0	0	0
Excellent (A)	0	65	78	216	73	16
Effective (B)	0	82	95	272	176	59
Continuous Improvement (C)	0	225	326	1257	520	200
Academic Watch (D)	0	84	61	385	82	42
Academic Emergency (F)	0	28	61	181	70	3

Summary of destination performance ratings

Table 25. Summary: Rating of destination buildings for CPS students changing schools, October 2009–May 2011

Type of move	Number of student movers	Rating of destination school compared to school of origin		
		2 or more ratings lower (% of movers)	Same rating or 1 rating higher/lower (% of movers)	2 or more ratings higher (% of movers)
Exiting CPS for another district	2,626	4.5	62.6	32.9
Entering CPS from another district	1,441	30.6	65.6	3.7
Exiting CPS for a charter school	1,676	30.8	61.4	7.8
Entering CPS from a charter school	1,510	9.0	72.8	18.1
Changing schools within CPS	4,657	15.9	70.4	13.7

4.5   Open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

As of school year 2010–2011, the CPS district, and most of the districts surrounding CPS, did not accept open enrollment students from other districts. However, many districts in the Cincinnati Area—particularly those in Ring 2—do permit open enrollment (Map 9). Eleven pairs of districts had at least 50 students who resided in one district, but attended school in another district through inter-district open enrollment, including from a Cincinnati residence to St. Bernard-Elmwood Place enrollment (135 students), West Clermont to Batavia (94), West Clermont to New Richmond (76), and Hamilton to New Miami (71).

Map 9. Open enrollment patterns of Cincinnati Area districts and total incoming students through open enrollment, school year 2010–2011

Source: CRP analysis of ODE enrollment records

5.0 Mobility and the student

5.1   Section overview and key concepts

This section of the report examines the relationship of mobility and student characteristics and achievement for CPS students. The analysis includes: (1) differences in demographic characteristics of mobile and non-mobile student groups, (2) differences in demographics of students who left the district based on the type of destination school, and (3) differences in proficiency test scores based on mobility status.

Student characteristics and mobility status

How do stable CPS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

- The demographic characteristics of CPS student groups based on their mobility status over a one-year period from October 1, 2009 to October 1, 2010, and statistical differences between these groups.

Data notes

- Demographic characteristics are from ODE student records and include race, grade, economic disadvantage, homeless, immigrant, LED, disability

Student characteristics and destination of outgoing students

How do the characteristics of outgoing CPS students differ based on their destination school?

- The demographic characteristics of CPS students who left the district from October 1, 2009 to October 1, 2010, based on their destination school type.

Data notes

- Demographic characteristics are from ODE student records and include race, grade, economic disadvantage, homeless, immigrant, LED, disability.

- Destination schools include another Ohio district, physical charter school, e-charter school, district outside of Ohio, and other (Includes expulsion, court order, private school, vocational school, home school, dropout, early graduation, medical, death, and unknown, which is the largest group)

Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

- **Mobility history:** Amount and type of student mobility of 3rd and 8th grade proficiency test takers during the two-year period preceding the school year 2011 test period.

- **Proficiency test passage:** Statistical analysis of the relationship between the mobility history of student groups and student attributes and proficiency on state achievement tests.

Data notes

- Mobility history includes: total school building changes (non-promotional), number of districts attended, number of community schools attended, and within school year withdrawal/reentry to same school.

- Mover groups include: 0 moves, 1 summer-only move, 1 during school year move, 2 moves, 3+ moves. Students in the 2-moves and 3+ moves groups have at least one school year move, but may have a combination of summer and school year moves.

5.2   Student characteristics and mobility status

How do stable CPS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

Table 26 provides a one-year snapshot of the characteristics of CPS student based on their mobility status. Statistical tests found the following significant differences between these groups:

- **Movers between Cincinnati Public Schools buildings**. Compared to stable CPS students, those who move between CPS buildings are more likely to be black, economically disadvantaged, homeless, or have a disability.

- **Outgoing and incoming students**. Compared to outgoing CPS students, incoming students are more likely to be white, an immigrant, or LEP.

Stable CPS students were fairly evenly distributed across grade levels (7-9% in each grade), although 11% of stable students were in grade 9. The following is the grade distribution of mover groups:

- **Movers between Cincinnati Public Schools buildings.** Forty-two percent of students who moved between CPS buildings were in grades K, 2, 7, or 9.

- **Outgoing students**. Fifteen percent of students who left the district were in grade 9.

- **Incoming students**. Twenty-six percent of all incoming students were in grades 6 and 8.

5.3   Student characteristics and destination of outgoing students

How do the characteristics of outgoing CPS students differ based on their destination school?

Statistical tests found the following significant differences between groups of students leaving the CPS district, based on their destination school (Table 26):

- **Race.** Compared to other racial groups, black students are more likely to move to a physical charter school; white students are more likely to move to an e-charter; and Hispanic students are more likely to move to a district outside of Ohio.

- **Economic disadvantage.** Economically disadvantaged CPS students are more likely than those who are not economically disadvantaged to move to a physical charter.

- **Limited English Proficiency.** LEP students are more likely than those who are not LEP to move to a district outside of Ohio.

Stable CPS students were fairly evenly distributed across grade levels (7-9% in each grade), although 11% of stable students were in grade 9. The following is the grade distribution of mover groups based on their destination school:

- **Other Ohio district.** Forty-three percent of CPS students who moved to another Ohio district were in grades K-3.

- **Physical charter**. Fifty-three percent of CPS students who moved to a physical charter were in grades K, 2, 4, and 9, with 19% in grade 9.

- **E-students.** Fifty-three percent of CPS students who moved to an e-charter were in grades 7-9, with 32% in grade 9.

- **District outside of Ohio.** Forty percent of CPS students who moved to a district outside of Ohio were in grades 9-11, with 21 percent in grade 9.

Table 26. Characteristics of CPS students by mobility status and destination, Oct. 1, 2009 to Oct. 1, 2010

	Characteristics and mobility status of CPS students				Characteristics of outgoing CPS students by destination				
	Stayed in district		Incoming (entered the district)	Outgoing (left the district)	Other Ohio district	Physical charter school	E-charter school	District outside of Ohio	Other or NA (3)
	Stable Student (1)	Move between CPS buildings (2)							
All	**21,994**	**2,933**	**4,068**	**5,535**	**1,467**	**851**	**138**	**491**	**2,588**
	%	%	%	%	%	%	%	%	%
Race									
Black	65.8	79.6	63.3	67.8	58.1	91.0	39.9	57.0	69.3
White	25.2	12.8	25.6	23.1	29.5	4.3	50.0	25.1	23.7
Hispanic	2.6	1.5	2.7	2.4	3.5	0.7	0.7	7.1	1.5
Asian	0.9	0.2	1.9	1.0	1.4	0.1	0.0	3.9	0.5
Other	5.5	6.0	6.5	5.7	7.5	3.9	9.4	6.9	4.9
Grade SY 2009-2010									
K	9.1	10.0	9.2	9.7	12.4	12.0	1.4	9.0	8.0
1	8.8	9.9	8.1	8.3	11.3	9.3	3.6	9.2	6.4
2	8.4	10.2	7.2	7.3	8.6	11.3	2.2	8.1	5.4
3	7.9	8.3	6.8	8.0	10.4	7.9	5.1	7.3	7.0
4	7.5	9.8	6.8	6.9	8.9	10.8	6.5	5.1	4.9
5	7.9	8.6	7.2	6.3	8.0	6.5	5.8	5.5	5.4
6	7.1	9.4	11.8	7.3	8.6	7.2	7.2	4.7	7.1
7	7.6	10.4	6.9	6.6	7.8	4.9	10.1	6.1	6.5
8	8.6	4.2	14.0	6.8	8.9	3.5	10.9	4.9	6.8
9	11.5	11.1	8.3	15.5	8.6	18.8	31.9	20.8	16.5
10	8.2	5.3	7.1	7.7	4.4	5.1	9.4	9.2	10.1
11	7.4	2.9	6.6	9.4	2.1	2.8	5.8	10.2	15.8
Economic Disadvantage									
No	26.5	12.7	25.9	27.0	16.6	2.1	13.0	64.8	34.7
Yes	73.5	87.3	74.1	73.0	83.4	97.9	87.0	35.2	65.3
Homeless									
No	94.2	83.1	90.0	89.4	88.8	86.8	94.2	89.8	90.3
Yes	5.8	16.9	10.0	10.6	11.2	13.2	5.8	10.2	9.7
Immigrant									
No	99.1	99.4	97.7	99.4	98.8	100.0	100.0	99.2	99.6
Yes	0.9	0.6	2.3	0.6	1.2	0.0	0.0	0.8	0.4
LEP									
No	95.8	97.8	94.7	97.1	96.4	99.8	100.0	90.6	97.6
Yes	4.2	2.2	5.3	2.9	3.6	0.2	0.0	9.4	2.4
Disability									
No	77.7	72.1	80.2	76.5	75.1	77.2	82.6	82.1	75.8
Yes	22.3	27.9	19.8	23.5	24.9	22.8	17.4	17.9	24.2

Source: CRP analysis of ODE enrollment records

(1) Stable student: did not move or a promotional move only (i.e. elementary to middle school, middle school to high school)

(2) Does not include promotional moves

(3) Includes expulsion, court order, private school, vocational school, home school, dropout, early graduation, medical, death, and unknown, which is the largest group

5.4   Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

Mobility history of test takers

Of the 4,464 3rd and 8thgrade CPS students who took the Ohio Achievement Assessment (OAA) tests in spring 2011, about one-in-four test takers made at least one non-promotional move during the previous two school years (Table 27). The largest groups were those who made one school year move or one summer-only move.

Table 27. CPS: Mobility history of OAA test-takers in spring 2011

Mobility type and amount	3rd grade		8th grade	
	#	%	#	%
Test-takers	2,337	100.0	2,127	100.0
Total school changes over two school years				
0 moves	1,687	72.2	1,525	71.7
1 summer-only move	242	10.4	210	9.9
1 during school year move	254	10.9	228	10.7
2 moves	118	5.0	131	6.2
3+ moves	36	1.5	33	1.6

Source: CRP analysis of ODE enrollment records

Mobility history and economic disadvantage

A higher percentage of the mobile spring 2011 test-takers were economically disadvantaged than were those who did not change schools during the previous two years. For both the 3rd grade and 8th-grade test takers, the students who moved once during the summer and those who moved two or more times had economic disadvantage rates of greater than 90%, compared to 75% and 68% for the 0-mover groups. Rates for those who moved once during the school year were not as high as the other mover groups, but were still higher than the rate for the 0-mover groups.

Table 28. CPS: Economic disadvantage and mobility history of OAA test-takers in spring 2011

Total non-promotional moves over two school years	3rd grade test			8th grade test		
	Total test-takers	Economic Disadvantage		Total test-takers	Economic Disadvantage	
		# of test takers	% of test takers		# of test takers	% of test takers
0 moves	1,687	1,270	75.3%	1,525	1,036	67.9%
1 summer move	254	246	96.9%	228	208	91.2%
1 during school year move	242	213	88.0%	210	164	78.1%
2 moves	118	110	93.2%	131	123	93.9%
3+ moves	36	34	94.4%	33	31	93.9%

Source: CRP analysis of ODE enrollment records

Mobility history and test scores

There is a general downward trend in average test scores and passage rates of 3rd and 8th grade OAA tests with each successive school change that a CPS student made (Figures 1 and 2). All mover groups—even those who move one time in the summer—had lower average test scores and passage rates than students who did not change schools over the previous two years.

Figure 1. CPS: Average scores on spring 2011 OAA tests by two-year mobility history

	0 moves	1 summer move	1 school year move	2 moves	3+ moves
Reading G3	413	405	401	401	397
Math G3	419	409	404	402	397
Reading G8	422	418	409	401	404
Math G8	411	408	397	392	391
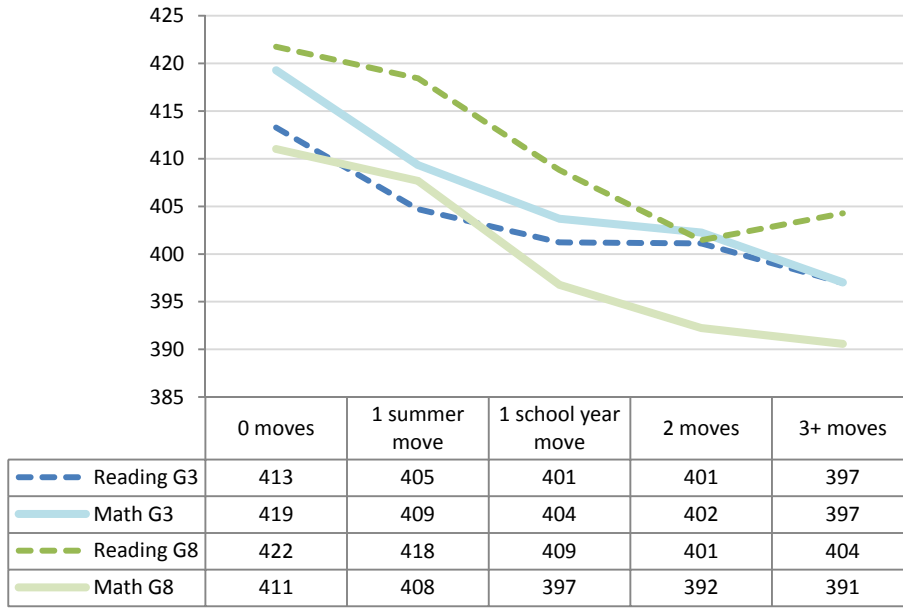
Source: CRP analysis of ODE enrollment records.

Figure 2. CPS: Passage rates on spring 2011 OAA tests by two-year mobility history
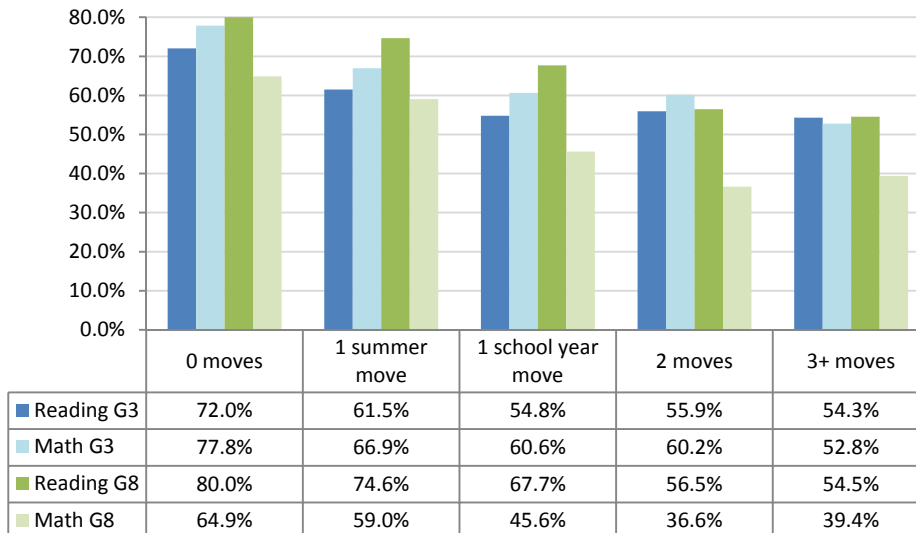
	0 moves	1 summer move	1 school year move	2 moves	3+ moves
Reading G3	72.0%	61.5%	54.8%	55.9%	54.3%
Math G3	77.8%	66.9%	60.6%	60.2%	52.8%
Reading G8	80.0%	74.6%	67.7%	56.5%	54.5%
Math G8	64.9%	59.0%	45.6%	36.6%	39.4%

Source: CRP analysis of ODE enrollment records.

Summary: relationship of mobility, student characteristics, and test scores

Average test scores

Figure 3 shows the average scores on the spring 2011 3rd grade math test for selected student groups. Scores were highest for the following CPS student groups:

- Not economically disadvantaged
- Asian or non-Hispanic white
- Had no school moves

Figure 3. CPS: Average scores on 3rd grade math test by student groups, spring 2011
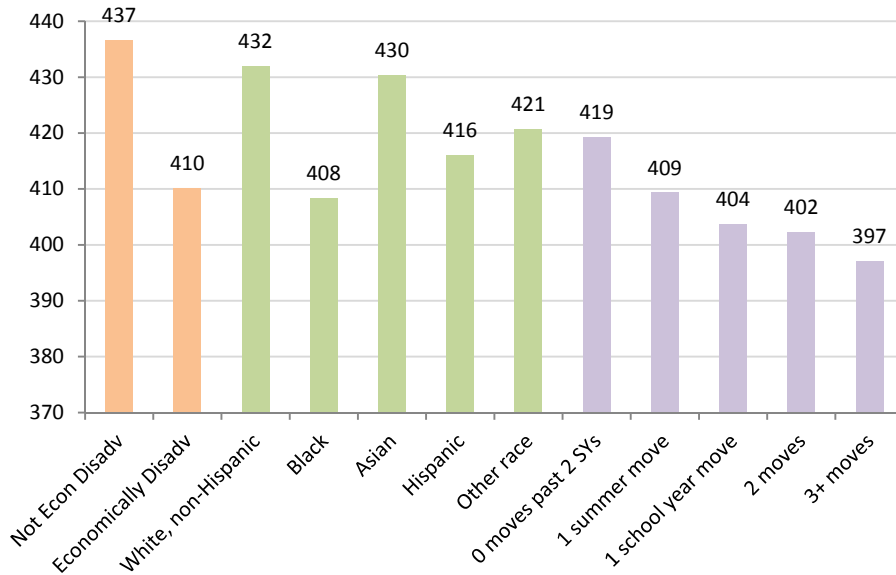
Source: CRP analysis of ODE enrollment records.

Statistical modeling

Table 28 shows the results of statistical tests of differences between groups in test scores based on the following factors: economic disadvantage, race or ethnicity, or number of moves over the past two years. The p-values on the table are for the test of whether there is a significant difference in scores due to each factor *after all other factors have been adjusted for*. If the p-value is small (p <= 0.05), the factor is very important in predicting the test scores.

For the CPS student groups analyzed, the low p-values (<.0001) for all factors indicate that the number of school changes over two years is an independent predictor of test scores. There is a statistically significant relationship between more school moves and lower test scores. Economic disadvantage and race are also independent predictors of test scores.

Table 29. CPS: Significance of relationship of factors to test scores on selected OAA tests, spring 2011

Factor	Grade 3 Reading	Grade 3 Mathematics	Grade 8 Reading	Grade 8 Mathematics
Economic disadvantage status	<.0001	<.0001	<.0001	<.0001
Race or ethnicity category	<.0001	<.0001	<.0001	<.0001
Total number of school changes over past 2 school years	<.0001	<.0001	<.0001	<.0001

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

The statistical modeling also examined the differences in test scores based on the number of moves, and whether a move was in the summer or school year (Table 30). The following were found to be significant differences in mover groups:

- **Grade 3 math and reading test scores.** Summer movers and all school year mover groups have lower mean test scores than those of the 0-mover group.

- **Grade 8 math and reading test scores.** Summer movers and all school year mover groups have lower mean test scores than those of the 0-mover group. The groups with two moves and three or more moves have lower mean scores than those of the summer move group

Table 30. Significant differences in mean test scores of CPS students by number of moves over two school years preceding spring 2011 OAA tests

Grade	0 moves	1 move, summer	1 move, school year	2 moves	3+ moves
Grade 3 Math					
0 moves					
1 move, summer	yes (1)				
1 move, school year	yes	no			
2 moves	yes	no	no		
3 or more moves	yes	no	no	no	
Grade 3 Reading					
0 moves					
1 move, summer	yes				
1 move, school year	yes	no			
2 moves	yes	no	no		
3 or more moves	yes	no	no	no	
Grade 8 Math					
0 moves					
1 move, summer	yes				
1 move, school year	yes	no			
2 moves	yes	yes	no		
3 or more moves	yes	yes	no	no	
Grade 8 Reading					
0 moves					
1 move, summer	yes				
1 move, school year	yes	no			
2 moves	yes	yes	no		
3 or more moves	yes	yes	no	no	

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records.

(1) "yes" indicates p-value of <= 0.05 in tests of differences between groups

5.5 Mobility and achievement test roll-up level

An impact of student mobility is that mobile students may not meet the enrollment criteria—continually enrolled in a building or district from October 31 until the spring achievement testing date—for counting their test scores in a building's or district's performance rating. Instead, their test score is "rolled up" and counts only for the district or state rating.

- Among the Cincinnati Area Ring 1 districts, Lockland has the highest percentage of students whose achievement test scores are rolled up to the state (Table 31).

- The CPS figure (8.1%) is the 8th highest among the 15 Major Urban districts, with Cleveland (14.2%) and East Cleveland (10.2%) having the highest percentages of state-only accountability among test takers. Akron (4.3%) and Warren (5.3%) had the lowest roll-up percentages.

Table 31. Cincinnati Area Ring 1 districts: Roll-up for OAA test-takers in grades 3 to 8, spring 2011 test period

District	District rating	Econ. Disadv. (%)	Test-takers	Percentage of tests rolled up to district or state accountability		
				Building	District	State
Lockland	C	62.9	261	77.4	0.4	22.2
Mt. Healthy	C	76.1	1,735	88.6	0.2	11.1
St. Bernard-Elmwood Place	B	72.0	409	88.8	1.2	10.0
Winton Woods	C	57.7	1,542	90.3	0.0	9.7
North College Hill	C	68.8	707	91.1	0.0	8.9
Cincinnati	B	69.7	13,873	88.7	3.2	8.1
Finneytown	B	36.2	662	93.4	0.0	6.6
Princeton	B	58.6	2,347	92.9	0.9	6.2
Norwood	A	60.4	974	93.7	0.7	5.5
Deer Park	A	40.9	588	94.9	0.0	5.1
Northwest	B	45.1	4,253	94.4	0.6	5.0
Southwest	A	34.5	1,618	95.3	0.2	4.5
Reading Community	A	38.9	734	95.9	0.0	4.1
Three Rivers	A	35.8	805	96.6	0.0	3.4
Sycamore Community	A+	16.0	2,370	96.8	0.2	3.0
Oak Hills	A	6.5	3,541	97.0	0.4	2.6
Forest Hills	A+	10.8	3,468	98.0	0.2	1.8
Madeira	A	8.7	651	98.3	0.0	1.7
Indian Hill	A+	5.1	970	98.4	0.0	1.6
Mariemont	A	8.2	806	98.5	0.1	1.4
Wyoming	A	6.6	915	98.7	0.1	1.2

Source: CRP analysis of ODE enrollment records

Appendices

Appendix A. Cincinnati Area public school districts

Appendix B. Cincinnati Area public school buildings

Appendix C. Cincinnati Area public charter schools

The appendix provides basic mobility measures and demographics for all districts and schools in the Cincinnati Area. Additional data fields—including the component values used to calculate stability and churn rates—can be found in online spreadsheets at www.researchpartners.org.

Ring	District	Rating	Average daily enrollment	Enrollment change since school year 2000–2001	Economic disadvantage	Minority race or ethnicity	Limited English Proficiency	Grade 3 reading proficiency, spring assessment	District cohort stability, Oct. 1, 2009–May 15, 2011		Building cohort stability, Oct. 1, 2009–May 15, 2011		Churn rate, Oct. 1, 2010–May 15, 2011		Achievement test roll-up to state level for spring 2011 math test-takers, grades 3–8	Students residing in district but attending charter school		Inter-district open enrollment	
									Grades K-7	Grades 8-11	Grades K-7	Grades 8-11	Grades K-8	Grades 9-12		In bricks and mortar public charter school	In public e-charter school	OUT: Residing in district but enrolling in other district	IN: Attending district through open enrollment
			#	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Cincinnati	B	32,009	-20.3	69.7	75.8	3.7	70.4	77.6	72.2	65.0	58.7	16.2	15.2	8.1	17.2	2.4	0.6	0.0
1	Deer Park	A	1,256	-14.3	40.9	19.1	1.6	89.0	87.0	78.1	85.0	78.1	11.3	10.8	5.1	0.7	2.3	0.5	0.0
1	Finneytown	B	1,492	-17.4	36.2	48.8	1.3	75.5	80.6	80.4	80.8	80.4	13.2	9.1	6.6	1.9	1.9	0.4	0.0
1	Forest Hills	A+	7,351	-0.2	10.8	8.2	0.5	95.6	92.1	91.0	91.0	89.5	5.3	5.6	1.8	0.1	1.0	0.1	0.0
1	Indian Hill	A+	2,067	-5.4	5.1	16.1	0.9	97.1	93.1	90.0	92.5	93.2	3.3	3.6	1.6	0.1	0.6	0.1	0.0
1	Lockland	C	632	-1.3	62.9	52.2	5.2	76.5	68.1	80.6	67.6	75.2	39.7	25.7	22.2	1.9	3.1	9.1	18.0
1	Madeira	A	1,392	-2.6	8.7	10.3	1.7	100.0	94.7	92.7	94.5	92.5	3.2	4.0	1.7	0.1	0.8	0.1	0.0
1	Mariemont	A	1,637	-0.5	8.2	6.8	0.0	98.2	91.8	87.9	91.7	89.4	4.4	4.6	1.4	0.3	0.9	0.0	0.0
1	Mt Healthy	C	3,567	-5.6	76.1	80.4	1.1	66.7	70.2	64.9	59.1	58.7	22.9	24.1	11.1	7.2	2.0	0.5	0.0
1	North College Hill	C	1,595	3.5	68.8	81.9	0.8	66.7	72.8	67.3	47.6	49.8	24.4	20.3	8.9	3.1	1.3	0.6	0.0
1	Northwest	B	9,149	-8.3	45.1	35.1	2.1	80.2	83.8	80.9	80.3	78.4	12.4	11.2	5.0	2.1	2.2	0.1	0.0
1	Norwood	A	2,171	-25.3	60.4	21.8	5.5	77.4	78.2	70.0	74.3	66.0	18.8	21.9	5.5	1.9	2.7	0.6	0.0
1	Oak Hills	A	7,727	0.0	6.5	6.8	0.0	90.6	91.6	89.4	89.1	89.5	5.8	5.3	2.6	0.2	1.5	0.1	0.0
1	Princeton	B	5,238	-15.9	58.6	66.5	11.2	81.0	81.1	77.4	75.8	72.7	16.3	20.8	6.2	0.4	1.7	0.7	0.0
1	Reading Community	A	1,597	37.1	38.9	11.7	1.0	95.5	84.5	76.9	57.5	56.5	12.4	11.0	4.1	1.3	2.4	0.6	12.4
1	Southwest	A	3,306	-13.7	34.5	<5.0	0.0	88.9	87.7	82.5	83.5	80.7	10.0	9.4	4.5	0.1	2.1	0.1	0.0
1	St Bernard-Elmwood Plc.	B	974	-14.7	72.0	32.3	0.0	85.7	70.1	57.9	68.5	57.9	26.2	21.1	10.0	3.5	3.1	2.4	15.2
1	Sycamore Community	A+	5,197	-9.7	16.0	28.3	3.7	93.3	87.8	91.2	86.1	92.1	8.6	4.9	3.0	0.1	0.4	0.1	0.0
1	Three Rivers	A	1,833	-11.4	35.8	5.5	0.0	90.8	85.1	78.8	83.9	77.9	12.5	9.5	3.4	0.2	2.9	0.0	0.8
1	Winton Woods	C	3,267	-21.2	57.7	84.9	6.8	75.2	75.6	74.7	71.8	74.9	18.6	19.0	9.7	5.7	2.9	0.9	0.0
1	Wyoming	A	1,987	4.8	6.6	21.3	0.0	97.7	93.9	93.1	90.2	93.1	3.0	2.4	1.2	0.1	0.4	0.1	0.0
2	Batavia	A	2,114	23.4	44.0	10.6	0.5	82.6	79.8	78.0	79.6	76.1	21.3	14.6	9.6	0.1	3.6	2.3	9.5
2	Bethel-Tate	A+	1,873	1.1	43.4	<5.0	0.0	88.1	83.7	78.9	83.5	77.4	13.4	13.9	6.2	0.0	3.1	4.0	11.8
2	Blanchester	A	1,690	1.4	45.7	<5.0	0.0	96.5	85.4	82.1	86.1	79.3	13.1	11.2	5.3	0.2	4.1	3.3	13.7
2	Clermont Northeastern	B	1,663	-13.7	42.6	<5.0	0.0	92.9	82.9	80.9	73.2	81.7	13.2	8.9	5.7	0.1	4.8	8.8	4.9
2	Edgewood	A	3,540	12.9	33.6	<5.0	0.0	89.3	89.0	78.7	80.7	76.7	12.4	11.5	4.7	0.5	1.6	1.8	1.0
2	Fairfield	B	9,608	15.1	29.4	27.0	3.9	85.7	86.4	83.3	68.6	52.6	10.5	9.1	4.2	0.4	1.9	0.9	0.0

Ring	District	Rating	Average daily enrollment	Enrollment change since school year 2000–2001	Economic disadvantage	Minority race or ethnicity	Limited English Proficiency	Grade 3 reading proficiency, spring assessment	District cohort stability, Oct. 1, 2009–May 15, 2011 Grades K-7	District cohort stability, Oct. 1, 2009–May 15, 2011 Grades 8-11	Building cohort stability, Oct. 1, 2009–May 15, 2011 Grades K-7	Building cohort stability, Oct. 1, 2009–May 15, 2011 Grades 8-11	Churn rate, Oct. 1, 2010–May 15, 2011 Grades K-8	Churn rate, Oct. 1, 2010–May 15, 2011 Grades 9-12	Achievement test roll-up to state level for spring 2011 math test-takers, grades 3–8	Students residing in district but attending charter school — In bricks and mortar public charter school	Students residing in district but attending charter school — In public e-charter school	Inter-district open enrollment — OUT: Residing in district but enrolling in other district	Inter-district open enrollment — IN: Attending district through open enrollment
			#	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
2	Fayetteville-Perry	A	944	-0.9	34.0	<5.0	0.0	86.8	87.4	82.7	87.5	80.8	8.4	6.7	3.5	0.1	2.2	5.7	16.3
2	Felicity-Franklin	B	1,034	-14.1	53.7	<5.0	0.0	73.5	78.0	77.7	78.5	75.7	18.5	14.9	7.6	0.0	3.3	9.0	8.2
2	Franklin	B	2,911	-2.5	44.7	<5.0	0.0	89.1	86.9	79.5	83.2	75.7	10.5	11.8	3.8	0.9	3.7	2.4	3.5
2	Goshen	A	2,595	6.3	47.8	5.1	0.0	89.8	82.4	79.7	81.9	77.4	14.4	16.9	5.3	0.2	2.7	2.6	3.3
2	Hamilton	C	9,444	0.0	69.2	24.6	4.1	78.1	80.7	74.9	68.4	66.2	18.7	22.4	8.2	2.0	3.7	1.1	1.4
2	Kings	A	3,914	13.0	17.1	10.8	2.0	92.6	88.5	87.8	85.6	86.8	6.7	7.5	3.0	0.1	2.8	0.1	1.3
2	Lakota	A+	17,409	21.1	14.6	23.9	4.9	89.2	89.2	85.5	86.5	84.5	6.9	8.6	2.5	0.2	1.5	0.3	0.0
2	Lebanon	A	5,450	25.7	23.5	10.6	1.4	91.4	87.9	83.5	87.8	81.5	11.1	23.8	3.6	0.2	4.1	1.0	0.0
2	Little Miami	A	3,833	47.1	20.1	6.8	0.5	87.8	80.5	74.5	72.9	72.3	8.9	7.8	3.0	0.1	4.3	4.1	0.0
2	Loveland	A	4,486	18.8	14.2	7.4	0.8	93.1	88.1	89.3	79.5	90.8	7.3	6.8	3.2	0.1	1.3	0.5	0.0
2	Madison	A	1,568	3.6	27.7	<5.0	0.0	86.8	87.4	81.4	39.7	58.5	9.4	10.0	3.1	2.0	2.2	1.2	8.2
2	Mason	A+	10,503	66.3	6.4	24.7	2.4	96.8	91.8	90.8	91.3	67.4	5.9	4.5	2.3	0.1	0.8	0.0	1.2
2	Middletown	C	6,540	-10.4	71.5	32.8	4.2	69.7	79.9	73.5	68.4	69.2	17.7	23.7	6.0	8.3	3.7	2.8	1.2
2	Milford	A	6,133	9.4	21.7	7.1	0.7	91.6	88.4	86.4	85.4	84.7	8.8	6.3	3.1	0.1	2.1	0.7	0.8
2	Monroe	A	2,232	61.6	25.2	12.6	2.7	85.1	86.3	79.1	86.1	76.6	9.9	10.8	4.2	1.1	2.2	1.3	3.4
2	New Miami	A	770	-11.2	78.4	9.8	0.0	73.6	74.3	63.3	73.1	58.3	20.4	24.3	9.0	0.1	3.9	4.6	13.2
2	New Richmond	A+	2,419	-2.7	44.4	5.0	0.0	91.6	85.1	82.5	81.6	80.8	11.7	8.3	4.6	0.1	1.8	1.8	6.1
2	Ross	A+	2,830	15.2	22.7	<5.0	0.0	88.5	92.4	87.7	90.9	84.6	5.4	7.7	1.5	0.1	1.7	0.7	0.0
2	Springboro Community	A+	5,493	64.0	6.3	8.5	0.4	95.7	92.3	89.0	91.5	87.2	4.0	4.1	1.6	0.1	1.4	0.7	0.0
2	Talawanda	A+	3,075	-3.7	33.2	8.2	2.6	88.3	88.2	85.2	85.9	83.6	7.9	11.7	2.9	0.1	1.4	1.1	2.9
2	West Clermont	A	8,665	-4.4	31.4	6.3	1.1	86.0	85.3	82.1	80.1	78.9	12.9	12.0	4.4	0.1	2.2	2.9	0.0
2	Western Brown	B	3,338	5.9	50.0	<5.0	0.0	80.2	85.7	79.8	84.4	77.0	14.8	12.8	4.1	0.0	2.3	8.2	7.6
2	Williamsburg	A	1,043	-1.0	40.2	<5.0	0.0	95.3	85.6	75.2	85.2	75.2	14.7	15.1	6.4	0.0	4.7	8.1	10.2

Cincinnati Area public school buildings alphabetical by district and school name		District attributes					Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Batavia	Batavia Elementary School	K-4	A	853	53.0	13.2	76.8	22.2
Batavia	Batavia High School	9-12	A	602	31.5	5.5	76.1	14.6
Batavia	Batavia Middle School	5-8	A	659	43.8	12.5	83.6	20.1
Bethel-Tate	Bethel Tate High School	9-12	A	597	36.8	<5.0	77.4	13.9
Bethel-Tate	Bethel-Tate Middle School	6-8	A+	400	43.2	<5.0	87.2	14.5
Bethel-Tate	Bick Primary Elementary School	K-2	NA	449	49.6	<5.0	82.9	11.4
Bethel-Tate	Hill Intermediate Elementary School	3-5	A+	426	46.4	<5.0	80.9	14.4
Blanchester	Blanchester High School	9-12	A	493	39.4	<5.0	79.3	11.2
Blanchester	Blanchester Intermediate School	4-5	A	272	47.7	<5.0	86.6	14.1
Blanchester	Blanchester Middle School	6-8	A	403	51.0	<5.0	89.3	12.7
Blanchester	Putman Elementary School	PK-3	A	523	46.5	<5.0	83.7	12.9
Cincinnati	Academy for Multilingual Immersion Studies	PK-8	C	491	89.0	>95.0	80.1	10.7
Cincinnati	Academy Of World Languages Elementary School	PK-8	D	569	89.7	94.7	79.2	15.2
Cincinnati	Aiken College and Career High School	9-12	B	675	75.5	>95.0	45.1	24.7
Cincinnati	Bond Hill Academy Elementary School	PK-8	C	400	90.8	>95.0	57.6	31.5
Cincinnati	Carson Elementary School	PK-8	C	697	90.6	62.1	49.0	37.1
Cincinnati	Chase Elementary School	PK-8	C	328	94.0	92.1	49.8	53.0
Cincinnati	Cheviot Elementary School	PK-8	C	584	83.1	40.9	62.8	28.6
Cincinnati	Clark Montessori High School	7-12	B	680	32.1	58.6	82.7	4.7
Cincinnati	College Hill Fundamental Academy	PK-6	A	493	79.0	>95.0	72.6	10.3
Cincinnati	Covedale Elementary School	K-6	A	579	54.7	39.3	83.3	11.8
Cincinnati	Dater Montessori Elementary School	PK-6	A	673	49.6	53.7	88.9	1.7
Cincinnati	Ethel M. Taylor Academy	K-8	D	391	83.0	>95.0	51.7	40.6
Cincinnati	Fairview-Clifton German Language School	PK-6	A	696	21.6	37.4	90.7	1.1
Cincinnati	Frederick Douglass Elementary School	PK-8	C	388	>95.0	>95.0	50.3	39.0
Cincinnati	George Hays-Jennie Porter Elementary	PK-8	C	331	>95.0	>95.0	51.1	54.1
Cincinnati	Gilbert A. Dater High School	7-12	C	770	60.1	57.1	70.3	16.3
Cincinnati	Hartwell Elementary School	PK-8	B	416	83.2	65.5	58.6	40.4
Cincinnati	Hoffman-Parham Elementary School	PK-8	C	403	91.4	>95.0	51.9	47.0
Cincinnati	Hughes Center High School	11-12	C	392	69.7	87.6	29.2	9.3
Cincinnati	Hughes STEM High School	9-10	B	517	77.2	90.6	50.7	7.7
Cincinnati	James N. Gamble Montessori High School	7-10	C	297	53.2	72.8	72.4	11.0
Cincinnati	John P Parker Elementary School	PK-8	C	453	86.1	94.4	60.2	43.2
Cincinnati	Kilgour Elementary School	K-6	A	630	18.1	33.6	85.0	6.4
Cincinnati	Midway Elementary School	PK-8	D	626	86.3	72.1	64.0	22.4
Cincinnati	Mt. Airy Elementary School	PK-8	C	603	91.3	>95.0	48.3	39.3
Cincinnati	Mt. Washington Elementary School	PK-8	A	449	64.2	40.1	60.8	23.1
Cincinnati	North Avondale Montessori Elementary School	PK-6	B	509	45.1	79.2	87.1	5.6
Cincinnati	Oyler School	PK-12	C	626	85.4	33.0	47.6	46.1
Cincinnati	Pleasant Hill Elementary School	PK-8	D	676	89.2	>95.0	57.5	38.7
Cincinnati	Pleasant Ridge Montessori School	PK-6	F	520	69.4	80.1	56.7	25.5
Cincinnati	Quebec Heights Elementary School	PK-8	F	392	89.0	82.9	40.9	56.1
Cincinnati	Rees E. Price Elementary School	PK-8	C	554	90.5	81.6	44.5	50.9
Cincinnati	Riverview East Academy	PK-12	C	473	77.1	49.2	64.6	22.8
Cincinnati	Robert A. Taft Information Technology High School	9-12	A	514	72.6	94.1	40.0	29.1
Cincinnati	Roberts Academy: A Paideia Learning Community	PK-8	C	658	93.5	90.8	74.4	9.0
Cincinnati	Rockdale Academy Elementary School	PK-8	D	417	91.5	>95.0	50.9	39.5

Cincinnati Area public school buildings alphabetical by district and school name		Grade range	Rating	District attributes			Mobility measures	
				Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
District	School building			#	%	%	%	%
Cincinnati	Roll Hill School	PK-8	C	536	91.2	>95.0	50.7	43.3
Cincinnati	Roselawn Condon Elementary School	PK-8	C	436	86.0	>95.0	59.5	29.1
Cincinnati	Rothenberg Preparatory Academy	PK-8	C	322	>95.0	>95.0	56.3	39.1
Cincinnati	Sands Montessori Elementary School	PK-6	A	646	28.1	33.0	89.9	2.5
Cincinnati	Sayler Park Elementary School	PK-8	B	320	85.5	14.8	68.9	23.6
Cincinnati	School For Creat & Perf Arts High School	K-12	A	1,401	51.0	68.3	87.8	3.7
Cincinnati	Shroder Paideia High School	7-12	C	717	72.5	>95.0	71.5	6.7
Cincinnati	Silverton Paideia Elementary School	PK-6	B	339	81.9	93.6	75.1	10.8
Cincinnati	South Avondale Elementary School	PK-8	B	516	94.5	>95.0	49.4	44.3
Cincinnati	Virtual High School	9-12	D	391	55.0	81.9	11.4	116.5
Cincinnati	Walnut Hills High School	7-12	A	2,149	19.8	42.8	81.4	3.5
Cincinnati	Western Hills Engineering High School	9-12	F	424	69.4	82.6	36.7	39.5
Cincinnati	Western Hills University High School	9-12	B	661	75.3	86.1	50.5	20.5
Cincinnati	Westwood Elementary School	PK-8	D	331	89.5	92.0	44.4	41.7
Cincinnati	William H Taft Elementary School	PK-8	C	305	94.4	>95.0	57.8	27.7
Cincinnati	Winton Hills Academy Elementary School	PK-8	C	437	>95.0	>95.0	51.2	29.5
Cincinnati	Winton Montessori Elementary School	PK-6	C	378	78.4	86.6	74.7	4.0
Cincinnati	Withrow International High School	9-12	C	589	72.0	94.3	47.6	20.6
Cincinnati	Withrow University High School	9-12	B	797	67.7	>95.0	73.8	8.7
Cincinnati	Woodford Paideia Elementary School	PK-6	C	459	80.9	>95.0	72.6	7.8
Cincinnati	Woodward Career Technical High School	9-12	C	986	75.9	>95.0	45.3	19.9
Clermont Northeastern	Clermont Northeastern Elementary School	PK-5	A	725	50.4	<5.0	82.2	13.0
Clermont Northeastern	Clermont Northeastern High School	9-12	A	554	31.5	<5.0	81.7	8.9
Clermont Northeastern	Clermont Northeastern Middle School	6-8	B	383	43.9	<5.0	61.1	13.6
Deer Park	Amity Elementary School	4-6	A	292	41.4	16.6	84.8	8.0
Deer Park	Deer Park Jr/Sr High School	7-12	B	617	38.8	18.6	80.3	10.7
Deer Park	Holmes Elementary School	K-3	A	347	44.3	22.4	83.8	14.1
Edgewood	Babeck Elementary School	1-5	A	469	50.1	6.1	75.5	25.3
Edgewood	Bloomfield Elementary School	PK-5	A+	737	29.3	<5.0	71.2	12.4
Edgewood	Edgewood High School	9-12	A	1,071	28.7	<5.0	76.7	11.5
Edgewood	Edgewood Middle School	6-8	C	868	37.0	<5.0	91.4	9.3
Edgewood	Seven Mile Elementary School	1-5	A	395	28.3	<5.0	90.9	9.1
Fairfield	Fairfield Central Elementary School	1-4	A+	641	53.7	56.1	70.6	22.4
Fairfield	Fairfield East Elementary School	1-4	A	563	33.4	22.7	80.8	14.9
Fairfield	Fairfield Freshman High School	9-12	NA	820	24.1	24.8	0.5	10.8
Fairfield	Fairfield High School	10-12	A	2,397	22.2	24.2	79.9	8.6
Fairfield	Fairfield Intermediate Elementary School	5-9	B	1,508	33.1	27.2	42.3	10.1
Fairfield	Fairfield Middle School	7-8	B	1,507	30.5	26.5	88.5	8.9
Fairfield	Fairfield North Elementary School	1-4	A+	667	18.2	20.3	86.4	7.5
Fairfield	Fairfield South Elementary School	1-4	A	503	36.8	30.7	79.8	10.3
Fairfield	Fairfield West Elementary School	1-4	A	619	36.7	17.3	83.8	10.5
Fairfield	Kindergarten Center Elementary School	K	NA	385	18.4	30.4	-	15.1
Fayetteville-Perry	Fayetteville-Perry Elementary School	PK-5	B	413	41.3	<5.0	87.1	8.6
Fayetteville-Perry	Fayetteville-Perry High School	9-12	A	322	20.6	<5.0	80.8	6.7
Fayetteville-Perry	Fayetteville-Perry Middle School	6-8	B	209	39.9	<5.0	88.6	8.2
Felicity-Franklin	Felicity-Franklin Local Elementary School	PK-4	B	392	55.5	<5.0	76.6	19.3
Felicity-Franklin	Felicity-Franklin Local High School	9-12	B	310	45.4	6.0	75.7	14.9
Felicity-Franklin	Felicity-Franklin Local Middle School	5-8	B	332	59.2	<5.0	80.7	17.6
Finneytown	Brent Elementary School	K-2	NA	273	37.5	47.9	78.1	14.4
Finneytown	Finneytown Secondary Campus	7-12	A	801	32.3	46.5	80.4	10.7

Cincinnati Area public school buildings alphabetical by district and school name		Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
District	School building			#	%	%	%	%
Finneytown	Whitaker	3-6	A	417	42.9	54.2	82.7	12.3
Forest Hills	Anderson High School	9-12	A	1,284	10.1	8.1	88.2	7.2
Forest Hills	Ayer Elementary School	K-6	A+	647	9.2	10.7	89.4	5.1
Forest Hills	Maddux Elementary School	K-6	A	583	17.3	9.5	89.6	6.6
Forest Hills	Mercer Elementary School	K-6	A	750	17.5	8.4	89.0	8.5
Forest Hills	Nagel Middle School	7-8	B	1,143	11.3	8.7	94.5	5.3
Forest Hills	Sherwood Elementary School	K-6	A+	553	13.5	6.8	89.6	5.5
Forest Hills	Summit Elementary School	K-6	A+	552	11.4	9.7	91.1	5.5
Forest Hills	Turpin High School	9-12	A	1,183	7.2	6.0	90.9	5.1
Forest Hills	Wilson Elementary School	K-6	A	654	<5.0	8.2	94.0	3.7
Franklin	Anthony Wayne Elementary School	1-6	B	276	64.9	<5.0	76.2	18.7
Franklin	Franklin High School	9-12	A	916	38.6	<5.0	75.7	11.8
Franklin	Franklin Junior High School	7-8	B	440	44.2	5.8	89.3	11.0
Franklin	George H Gerke Elementary School	1-6	B	319	57.2	<5.0	81.9	11.9
Franklin	Hampton Bennett Early Childhood Center	K	NA	134	30.8	5.6	-	17.3
Franklin	Hunter Elementary School	1-6	A	328	26.1	<5.0	87.2	7.4
Franklin	Pennyroyal Elementary School	1-6	B	259	65.6	7.4	79.8	14.9
Franklin	William C Schenck Elementary School	1-6	B	239	39.0	<5.0	84.5	6.3
Goshen	Goshen High School	9-12	A	771	39.7	<5.0	77.4	16.8
Goshen	Goshen Middle School	6-8	A	583	47.4	5.9	79.8	16.3
Goshen	Marr/Cook Elementary School	K-2	NA	619	51.0	6.8	79.1	14.5
Goshen	Spaulding Elementary School	3-5	A	622	55.1	5.0	87.1	12.6
Hamilton	Bridgeport Elementary School	PK-6	B	674	71.4	17.1	66.3	34.6
Hamilton	Brookwood Elementary School	K-6	B	610	58.2	15.0	64.5	20.9
Hamilton	Crawford Woods Elementary School	K-6	C	686	86.9	40.5	68.4	35.1
Hamilton	Fairwood Elementary School	PK-6	C	740	88.5	25.4	61.5	37.0
Hamilton	Garfield Middle School	7-8	C	764	75.7	28.4	76.9	29.5
Hamilton	Hamilton Education Center	PK-12	NA	169	55.2	20.7	19.2	148.1
Hamilton	Hamilton Freshman School	9	NA	624	65.2	25.8	-	22.0
Hamilton	Hamilton High School	10-12	B	1,800	57.6	21.1	72.0	17.8
Hamilton	Highland Elementary School	K-6	B	723	66.5	13.8	61.9	20.8
Hamilton	Linden Elementary School	PK-6	B	803	70.0	16.5	75.8	20.5
Hamilton	Ridgeway Elementary School	PK-6	B	688	52.1	13.3	75.5	16.4
Hamilton	Riverview Elementary School	K-6	B	573	>95.0	73.5	59.4	48.0
Hamilton	Wilson Middle School	7-8	B	590	62.0	19.9	78.2	25.5
Indian Hill	Indian Hill Elementary School	3-5	A+	448	6.7	17.4	92.3	2.5
Indian Hill	Indian Hill High School	9-12	A	734	<5.0	15.0	93.2	3.6
Indian Hill	Indian Hill Middle School	6-8	A+	524	5.3	15.4	93.1	3.8
Indian Hill	Indian Hill Primary Elementary School	K-2	NA	360	<5.0	18.2	91.7	3.4
Kings	Columbia Elementary School	5-6	A	602	21.9	10.3	89.4	6.0
Kings	J F Burns Elementary School	K-4	A	623	15.7	14.5	83.2	8.8
Kings	Kings High School	9-12	A	1,172	11.5	10.2	86.8	7.5
Kings	Kings Junior High School	7-8	A	615	15.8	9.6	92.9	5.2
Kings	Kings Mills Elementary School	K-4	A+	484	11.1	11.3	82.1	7.5
Kings	South Lebanon Elementary School	K-4	A	418	36.8	10.1	83.0	11.4
Lakota	Adena Elementary School	2-6	A+	753	14.2	13.8	87.8	6.6
Lakota	Cherokee Elementary School	2-6	A	798	16.6	19.2	90.5	6.5
Lakota	Creekside Early Childhood School	PK-1	NA	565	12.4	31.1	81.6	9.9
Lakota	Endeavor Elementary School	2-6	A+	753	13.4	35.7	84.9	9.4
Lakota	Freedom Elementary School	2-6	A+	667	21.5	32.1	82.6	9.7

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				#	%	%	%	%
Lakota	Heritage Elementary School	2-6	A+	605	16.6	25.0	85.9	7.9
Lakota	Hopewell Elementary School	2-6	A+	796	17.2	23.4	84.5	7.6
Lakota	Hopewell Junior School	7-8	A+	612	14.0	25.7	85.6	9.3
Lakota	Independence Elementary School	2-6	A+	675	11.1	21.4	87.7	9.2
Lakota	Lakota East High School	9-12	A	2,667	13.7	21.9	84.4	10.0
Lakota	Lakota Plains Junior School	7-8	A+	758	8.9	22.3	89.4	5.8
Lakota	Lakota Ridge Junior School	7-8	A+	605	18.0	28.0	89.6	9.0
Lakota	Lakota West High School	9-12	A	2,812	11.9	23.2	84.6	7.8
Lakota	Liberty Early Childhood School	K-1	NA	391	19.1	28.7	81.9	9.4
Lakota	Liberty Junior School	7-8	A+	807	12.8	15.7	90.3	5.3
Lakota	Shawnee Early Childhood School	PK-1	NA	492	24.2	29.9	79.6	12.0
Lakota	Union Elementary School	2-6	A+	747	20.1	34.1	86.2	9.9
Lakota	VanGorden Elementary School	2-6	A+	696	<5.0	12.8	91.6	2.9
Lakota	Woodland Elementary School	2-6	A	585	22.2	24.3	86.3	9.1
Lakota	Wyandot Early Childhood School	K-1	NA	623	16.5	25.6	85.2	8.0
Lebanon	Berry Intermediate School	5-6	A	893	24.6	10.5	88.4	9.4
Lebanon	Bowman Primary School	1-2	NA	887	27.6	13.4	86.4	12.6
Lebanon	Donovan Elementary School	3-4	A	886	27.2	12.6	88.2	9.7
Lebanon	Lebanon High School	9-12	A	1,658	18.6	8.7	81.5	23.8
Lebanon	Lebanon Junior High	7-8	A	874	23.4	9.6	88.3	11.6
Lebanon	Louisa Wright Elementary School	PK-K	NA	251	23.6	15.2	-	13.0
Little Miami	Hamilton-Maineville Elementary School	1-3	A	479	11.8	8.8	80.7	5.6
Little Miami	Little Miami High School	8-12	A	1,317	18.7	6.8	72.3	7.7
Little Miami	Little Miami Intermediate Middle School	3-5	A	819	21.9	7.1	80.8	10.0
Little Miami	Little Miami Junior High School	6-7	A	609	23.2	5.6	80.6	9.5
Little Miami	SalemTownship Elementary School	PK-2	NA	610	24.2	6.9	56.8	10.1
Lockland	Arlington Heights Academy	9-12	NA	48	70.0	55.4	60.6	45.5
Lockland	Lockland Elementary School	K-5	C	284	71.0	55.1	66.3	38.9
Lockland	Lockland High School	9-12	A	179	52.3	47.5	79.6	21.1
Lockland	Lockland Local Middle School	6-8	B	121	56.9	51.0	72.2	41.7
Loveland	Loveland Early Childhood Center	PK-1	NA	321	7.3	9.3	36.4	8.8
Loveland	Loveland Elementary School	3-4	A+	733	16.0	7.2	89.2	6.7
Loveland	Loveland High School	9-12	A	1,391	12.5	6.6	90.8	6.8
Loveland	Loveland Intermediate School	5-6	A	743	15.4	7.2	90.6	6.6
Loveland	Loveland Middle School	7-8	A	739	14.1	6.4	91.7	6.4
Loveland	Loveland Primary School	1-2	NA	559	18.9	10.8	86.6	9.1
Madeira	Madeira Elementary School	K-4	A	475	9.4	12.4	92.6	3.6
Madeira	Madeira High School	9-12	A	474	7.6	9.6	92.5	4.0
Madeira	Madeira Middle School	5-8	A	444	9.3	9.5	96.8	2.7
Madison	Madison Elementary School	K-5	B	661	38.2	<5.0	84.5	10.8
Madison	Madison High School	9-12	A	507	16.6	<5.0	45.1	10.0
Madison	Madison Middle School	6-8	A	400	24.6	<5.0	23.7	7.2
Mariemont	Mariemont Elementary School	K-6	A	558	12.8	9.1	92.8	5.0
Mariemont	Mariemont High School	9-12	A	456	6.2	5.8	89.4	4.6
Mariemont	Mariemont Junior High School	7-8	A	264	9.3	6.4	91.7	3.0
Mariemont	Terrace Park Elementary School	K-6	A	360	<5.0	<5.0	90.5	4.5
Mason	Mason Early Childhood Center Elementary School	PK-1	NA	1,198	7.3	31.3	86.7	10.0
Mason	Mason Heights Elementary School	2-3	A	826	5.9	23.4	90.9	5.9
Mason	Mason Intermediate Elementary School	4-6	A+	2,696	5.7	25.7	92.4	4.8
Mason	Mason Middle School	7-9	A+	1,780	7.4	23.0	47.2	3.8

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				#	%	%	%	%	
Mason	Western Row Elementary School	2-3	A	851	6.9	35.3	89.2	7.9	
Mason	William Mason High School	7-12	A	3,153	5.9	19.7	92.1	4.5	
Middletown	Amanda Elementary School	PK-5	C	396	89.1	16.2	61.2	35.1	
Middletown	Central Academy Nongraded Elementary School	K-8	B	320	57.8	31.8	74.0	13.0	
Middletown	Creekview Elementary School	PK-5	C	449	71.1	34.1	66.3	24.2	
Middletown	Highview Elementary School	K-5	B	377	74.5	24.2	61.9	33.6	
Middletown	Mayfield Elementary School	K-5	C	445	84.5	27.8	66.8	37.2	
Middletown	Middletown High School	9-12	C	1,794	61.2	33.3	69.2	23.7	
Middletown	Miller Ridge Elementary School	K-5	A	461	52.2	22.6	70.1	18.9	
Middletown	Rosa Parks Elementary School	PK-5	D	423	94.8	61.4	64.2	42.9	
Middletown	Stephen Vail Middle School	6-8	B	776	71.1	38.0	78.8	20.6	
Middletown	Verity Middle School	6-8	B	596	79.3	27.2	72.3	22.7	
Middletown	Wildwood Elementary School	K-5	B	503	79.5	40.3	63.2	23.2	
Milford	Boyd E Smith Elementary School	K-6	A+	505	12.9	8.8	85.1	9.6	
Milford	Charles L Seipelt Elementary School	K-6	A	367	37.8	8.5	81.0	16.5	
Milford	McCormick Elementary School	K-6	A+	517	18.2	9.3	87.2	7.5	
Milford	Meadowview Elementary School	K-6	A+	627	28.3	5.7	87.1	9.6	
Milford	Milford Junior High School	7-8	A	936	22.1	6.4	87.5	7.6	
Milford	Milford Sr High School	9-12	A	1,893	17.4	5.1	84.7	6.3	
Milford	Mulberry Elementary School	K-6	A	564	28.0	9.6	80.8	13.8	
Milford	Pattison Elementary School	K-6	A	701	23.5	9.4	87.7	9.0	
Monroe	Monroe Elementary School	3-6	A+	707	30.7	14.6	86.3	11.0	
Monroe	Monroe High School	9-12	A	686	19.1	11.8	76.6	10.8	
Monroe	Monroe Junior High School	7-8	A	342	26.1	12.4	84.3	11.9	
Monroe	Monroe Primary School	PK-2	NA	497	25.3	11.4	86.8	7.4	
Mt. Healthy	Mt Healthy High School	9-12	C	951	61.4	78.6	58.7	24.1	
Mt. Healthy	Mt Healthy Junior High School	7-8	F	547	80.0	84.8	72.8	26.8	
Mt. Healthy	North Elementary School	K-6	C	1,028	80.5	77.7	60.8	21.0	
Mt. Healthy	South Elementary School	K-6	C	1,017	85.2	82.9	48.4	25.4	
New Miami	New Miami High School	9-12	B	225	70.1	5.7	58.3	24.3	
New Miami	New Miami Elementary School	K-5	A	352	83.4	14.2	71.8	21.4	
New Miami	New Miami Middle School	6-8	B	193	78.9	7.9	76.2	18.6	
New Richmond	Locust Corner Elementary School	K-6	A	449	37.3	7.1	83.4	8.3	
New Richmond	Monroe Elementary School	K-6	A	442	47.0	<5.0	84.1	11.3	
New Richmond	New Richmond Elementary School	K-6	A	415	64.7	5.3	75.4	19.2	
New Richmond	New Richmond High School	9-12	A	733	34.2	<5.0	80.8	8.3	
New Richmond	New Richmond Middle School	7-8	A+	380	47.6	7.0	84.2	13.3	
North College Hill	North College Hill Elementary School	PK-4	C	616	73.6	80.1	75.0	27.0	
North College Hill	North College Hill High School	9-12	B	496	55.8	82.0	40.1	20.3	
North College Hill	North College Hill Middle School	5-8	C	483	75.9	84.6	-	21.1	
Northwest	Bevis Elementary School	K-5	A	401	59.2	34.4	80.9	15.7	
Northwest	Colerain Elementary School	K-5	B	771	41.1	29.5	82.8	10.4	
Northwest	Colerain High School	9-12	A	2,124	33.9	28.3	79.4	10.3	
Northwest	Colerain Middle School	6-8	B	638	40.4	29.8	85.1	9.4	
Northwest	Monfort Heights Elementary School	PK-5	A	582	36.7	16.9	81.2	8.9	
Northwest	Northwest High School	9-12	A	1,036	42.8	43.3	76.1	14.8	
Northwest	Pleasant Run Elementary School	3-5	B	390	50.2	61.7	78.5	11.6	
Northwest	Pleasant Run Middle School	6-8	B	796	54.1	48.9	83.1	15.3	
Northwest	Struble Elementary School	K-5	B	383	69.4	36.1	75.5	17.9	
Northwest	Taylor Elementary School	K-5	A	444	70.5	49.0	65.4	22.1	

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Northwest	Weigel Elementary School	K-5	A	455	44.6	24.5	81.2	17.2
Northwest	Welch Elementary School	PK-2	NA	351	50.5	61.7	77.0	17.6
Northwest	White Oak Middle School	6-8	B	743	44.5	25.2	85.7	14.4
Norwood	Norwood High School	9-12	A	626	42.9	18.3	66.0	21.9
Norwood	Norwood Middle School	7-8	A	313	62.7	16.9	79.0	20.7
Norwood	Norwood View Elementary School	K-6	B	406	68.3	27.1	76.8	18.4
Norwood	Sharpsburg Elementary School	3-6	B	265	69.0	24.5	74.7	26.0
Norwood	Sharpsburg Primary	PK-2	NA	218	67.5	27.8	64.3	23.1
Norwood	Williams Avenue Elementary School	PK-6	B	343	69.7	22.8	73.2	21.4
Oak Hills	Bridgetown Middle School	6-8	A	595	<5.0	6.2	89.7	8.3
Oak Hills	C O Harrison Elementary School	K-5	A	941	<5.0	5.9	90.7	3.8
Oak Hills	Charles W Springmyer Elementary School	K-5	A	481	<5.0	11.2	86.2	7.1
Oak Hills	Delhi Middle School	6-8	A	594	<5.0	8.8	90.7	9.8
Oak Hills	Delshire Elementary School	K-5	A+	486	58.1	12.5	84.8	14.4
Oak Hills	John Foster Dulles Elementary School	K-5	A+	707	<5.0	<5.0	87.0	4.7
Oak Hills	Oak Hills High School	9-12	A	2,672	<5.0	6.2	89.5	5.3
Oak Hills	Oakdale Elementary School	K-5	A	639	33.1	6.0	88.0	7.1
Oak Hills	Rapid Run Middle School	6-8	A	613	<5.0	5.1	96.3	3.1
Princeton	Evendale Elementary School	PK-5	A	210	42.0	37.4	75.3	4.7
Princeton	Glendale Elementary School	PK-5	B	230	60.6	80.3	68.4	26.1
Princeton	Heritage Hill Elementary School	PK-5	C	299	86.9	87.3	72.2	27.8
Princeton	Lincoln Heights Elementary School	PK-5	B	239	91.4	>95.0	62.2	30.5
Princeton	Princeton Community Middle School	6-8	B	1,133	57.7	64.4	84.0	15.3
Princeton	Princeton High School	9-12	B	1,653	51.2	68.0	73.1	23.3
Princeton	Princeton Virtual Academy	6-12	NA	48	76.1	>95.0	29.4	150.0
Princeton	Sharonville Elementary School	PK-5	B	391	63.3	52.1	67.3	26.2
Princeton	Springdale Elementary School	PK-5	A	417	48.6	62.2	83.6	10.6
Princeton	Stewart Elementary School	PK-5	B	439	54.8	45.3	77.0	20.9
Princeton	Woodlawn Elementary School	PK-5	B	179	76.4	>95.0	72.3	10.5
Reading Community	Central Community Elementary School	K-6	A	354	66.2	20.1	64.4	21.8
Reading Community	Hilltop Community Elementary School	K-6	A	414	27.3	10.6	68.5	9.4
Reading Community	Reading Community High School	9-12	A	460	28.8	8.6	44.5	11.0
Reading Community	Reading Community Middle School	6-8	B	369	38.6	11.5	-	8.9
Ross	Elda Elementary School	K-4	A+	570	27.8	<5.0	90.2	6.6
Ross	Morgan Elementary School	K-5	A	405	23.6	<5.0	86.8	6.6
Ross	Ross High School	9-12	A	1,022	16.6	<5.0	84.6	7.7
Ross	Ross Middle School	5-8	A+	833	26.4	<5.0	93.8	4.2
Southwest	Crosby Elementary School	K-6	A	276	26.3	<5.0	89.1	6.2
Southwest	Harrison Elementary School	K-6	A+	501	44.1	5.8	81.7	14.9
Southwest	Harrison Middle School	7-8	A	550	31.7	<5.0	86.6	7.3
Southwest	Hooven Elementary School	K-6	A	137	50.2	7.7	70.4	24.5
Southwest	Miamitown Elementary School	K-6	B	231	66.9	10.6	66.7	21.3
Southwest	Whitewater Valley Elementary School	K-6	A	556	26.2	<5.0	92.3	4.7
Southwest	William Henry Harrison High School	9-12	A	1,055	28.7	<5.0	80.7	9.4
Springboro Community	Clearcreek Elementary School	K	NA	241	<5.0	10.6	-	4.3
Springboro Community	Dennis Elementary East	1-5	A	595	10.8	5.8	88.6	5.4
Springboro Community	Dennis Elementary West	1-5	A	587	8.6	7.1	91.0	6.0
Springboro Community	Five Points Elementary East	1-5	A	601	<5.0	12.0	93.1	4.8
Springboro Community	Five Points Elementary West	1-5	A+	609	<5.0	11.4	91.4	4.5
Springboro Community	Springboro High School	9-12	A	1,546	6.5	6.8	87.2	4.1

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Springboro Community	Springboro Intermediate School	6	A	424	8.9	8.5		3.3
Springboro Community	Springboro Junior High School	7-8	A	889	6.4	9.8	93.6	3.6
St Bernard-Elmwood Place	Elmwood Place Elementary School	K-6	B	226	89.1	35.7	64.6	37.0
St Bernard-Elmwood Place	St Bernard Elementary School	K-6	B	285	72.1	33.8	70.6	19.2
St Bernard-Elmwood Place	St Bernard-Elmwood Place High School	7-12	B	463	63.7	30.2	60.3	24.8
Sycamore Community	Blue Ash Elementary	K-4	A	469	25.7	28.0	84.9	11.2
Sycamore Community	Edwin H Greene Intermediate Middle School	5-6	A+	796	15.4	29.3	90.3	5.7
Sycamore Community	Maple Dale Elementary School	K-4	A	383	17.4	27.5	88.2	6.5
Sycamore Community	Montgomery Elementary School	K-4	A	507	10.5	31.0	83.7	8.4
Sycamore Community	Sycamore High School	9-12	A	1,800	13.6	25.4	92.1	4.9
Sycamore Community	Sycamore Junior High School	7-8	A	832	16.2	28.2	93.0	8.4
Sycamore Community	Symmes Elementary School	K-4	A+	410	21.3	37.7	75.4	17.7
Talawanda	Bogan Elementary	K-5	A	399	42.1	<5.0	87.1	6.8
Talawanda	Kramer Elementary School	PK-5	A	541	41.9	20.3	80.7	11.4
Talawanda	Maude Marshall Elementary School	PK-5	A+	420	36.4	<5.0	84.9	8.5
Talawanda	Talawanda High School	9-12	A	996	23.6	6.9	83.6	11.7
Talawanda	Talawanda Middle School	6-8	A	719	32.9	6.7	91.3	8.3
Three Rivers	Charles T Young Elementary School	2-4	A	414	39.5	7.6	89.7	14.4
Three Rivers	Miami Heights Elementary School	PK-1	NA	276	43.1	5.9	64.9	12.8
Three Rivers	Taylor High School	9-12	A	601	25.5	5.2	77.9	9.5
Three Rivers	Three Rivers Middle School	5-8	B	543	40.6	5.6	88.2	10.8
West Clermont	Amelia Elementary School	K-5	A	696	36.1	5.2	75.8	20.3
West Clermont	Amelia High School	9-12	A	1,173	26.3	5.7	76.4	15.3
West Clermont	Amelia Middle School	6-8	A	961	40.6	<5.0	84.1	15.4
West Clermont	Brantner Lane Elementary School	K-5	B	397	46.1	7.8	76.4	16.3
West Clermont	Clough Pike Elementary School	K-5	A	474	22.6	8.9	85.6	11.5
West Clermont	Glen Este High School	9-12	A	1,420	18.2	5.2	80.9	12.6
West Clermont	Glen Este Middle School	6-8	A	987	29.0	7.7	85.5	13.3
West Clermont	Holly Hill Elementary School	K-5	B	395	55.0	<5.0	75.6	23.8
West Clermont	Merwin Elementary School	K-5	A+	658	25.8	5.4	82.9	14.8
West Clermont	Summerside Elementary School	K-5	B	492	42.9	7.9	72.6	17.5
West Clermont	Willowville Elementary School	K-5	A+	451	23.9	6.4	80.3	11.6
West Clermont	Withamsville-Tobasco Elementary School	K-5	A+	479	45.7	11.6	76.9	21.3
Western Brown	Hamersville Elementary School	K-8	A	655	52.5	<5.0	82.5	18.1
Western Brown	Mt Orab Middle School	5-8	B	708	55.3	<5.0	88.2	11.8
Western Brown	Mt Orab Primary Elementary School	K-4	A	975	52.5	<5.0	83.4	15.6
Western Brown	Western Brown High School	9-12	B	1,000	42.1	<5.0	77.0	12.8
Williamsburg	Williamsburg Elementary School	K-5	A	467	46.2	<5.0	85.7	14.8
Williamsburg	Williamsburg High School	6-12	A	576	35.4	<5.0	78.2	14.9
Winton Woods	Winton Woods Elementary School	3-4	B	497	64.8	85.6	70.9	18.9
Winton Woods	Winton Woods High School	9-12	B	1,131	48.4	85.5	74.9	19.1
Winton Woods	Winton Woods Intermediate School	5-6	C	520	63.0	85.7	80.7	16.2
Winton Woods	Winton Woods Middle School	7-8	C	511	58.7	83.9	73.3	17.2
Winton Woods	Winton Woods Primary North	PK-2	NA	292	63.6	79.2	69.0	22.0
Winton Woods	Winton Woods Primary South	K-2	NA	316	64.0	87.3	63.9	26.5
Wyoming	Elm Avenue Elementary School	K-4	A+	217	8.2	21.5	81.1	6.0
Wyoming	Hilltop Elementary School	K-4	A	242	<5.0	11.8	86.1	1.1
Wyoming	Vermont Avenue Elementary School	K-4	A	201	10.7	25.3	90.2	3.1
Wyoming	Wyoming High School	9-12	A	678	6.9	21.7	93.1	2.4
Wyoming	Wyoming Middle School	5-8	A	649	5.8	23.3	95.3	3.1

Appendix C. Cincinnati Area public charter schools, school year 2010–2011 (unless noted)

Cincinnati Area public charter schools alphabetical by school name				District attributes			Mobility measures	
District of location	School *denotes dropout recovery school	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Cincinnati	Alliance Academy of Cincinnati	K-8	C	323	>95.0	>95.0	45.0	33.0
Cincinnati	Cincinnati College Preparatory Academy	K-12	B	660	95.0	>95.0	78.7	3.8
Cincinnati	Cincinnati Leadership Academy	K-8	D	213	51.7	>95.0	60.0	17.6
Cincinnati	Cincinnati Speech & Reading Intervention Center	K-8	F	301	78.4	>95.0	38.3	29.9
Cincinnati	College Hill Leadership Academy	K-6	C	67	>95.0	>95.0	-	43.1
Cincinnati	Dohn Community*	9-12	F	157	83.0	>95.0	49.3	138.7
Cincinnati	East End Comm Heritage School	K-12	F	99	73.1	>95.0	41.8	35.7
Northwest	Hamilton Cnty Math & Science	K-8	A	411	73.5	>95.0	59.0	6.9
Cincinnati	Horizon Science Academy-Cincinnati	K-12	B	347	93.2	91.5	43.2	24.5
Cincinnati	King Academy Community School	K-8	C	137	94.8	>95.0	57.9	14.8
Cincinnati	Life Skills Center Of Hamilton County*	9-12	C	210	90.1	90.5	7.0	168.3
Middletown	Life Skills Center-Middletown*	9-12	C	277	79.2	22.4	12.8	175.4
Cincinnati	Life Skills Ctr Of Cincinnati*	9-12	F	304	90.9	>95.0	7.7	168.2
Cincinnati	Lighthouse Community Sch Inc*	6-12	F	66	89.7	83.5	35.4	91.9
Middletown	Middletown Fitness & Prep Acad	K-8	C	274	78.3	57.2	67.2	20.9
Cincinnati	Mount Auburn International Academy	K-12	D	525	65.3	>95.0	57.6	15.7
Mt. Healthy	Mt. Healthy Preparatory and Fitness Academy	K-8	B	219	76.4	>95.0	44.7	15.9
Cincinnati	Orion Academy	K-8	D	589	>95.0	>95.0	59.4	21.1
Cincinnati	P.A.C.E. High School*	9-12	F	200	13.3	>95.0	18.6	110.0
Cincinnati	Phoenix Community Learning Ctr	K-8	B	375	85.1	>95.0	55.2	12.6
Hamilton	Richard Allen Academy III	K-8	C	183	92.1	>95.0	59.1	13.9
Cincinnati	Riverside Academy	K-12	C	243	92.8	42.9	29.0	43.4
Cincinnati	Summit Academy Cincinnati	1-8	F	89	47.2	39.8	67.1	31.0
Middletown	Summit Academy Secondary School - Middletown	8-12	C	47	33.6	8.5	76.0	18.8
Cincinnati	Summit Academy Transition High School-Cincinnati	9-12	B	59	36.2	37.7	56.8	29.6
Middletown	Summit Acdy Comm Schl for Alternative Learners of Middletown	K-10	F	92	60.8	8.4	84.6	15.2
Cincinnati	T.C.P. World Academy	K-6	A	454	83.0	>95.0	83.5	3.6
Cincinnati	Theodore Roosevelt Public Community School	K-12	F	209	91.2	68.4	-	56.6
Cincinnati	V L T Academy	K-12	C	793	>95.0	>95.0	56.6	22.0

Ohio Student Mobility Research Project
Cleveland Area Profile

November 2012

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Summary

Student mobility is the phenomenon of students in grades K-12 changing schools for reasons other than customary promotion from elementary to middle school and middle to high school. This change may happen during the school year or over the summer. Mobility has consequences for schools, students, communities, and public policy. Research has found that students who change schools most frequently have worse educational outcomes.

In 2011, Community Research Partners and the Thomas B. Fordham Institute entered into a partnership to conduct research on student mobility in Ohio. The research analyzes more than five million student records over two school years to provide a picture of student mobility for all Ohio public districts and buildings and public charter schools, with in-depth analysis for the Columbus, Cleveland, Cincinnati, Dayton, and Toledo areas.

The Cleveland Area Profile

The Cleveland Area Profile focuses on the mobility of 43,202 Cleveland Metropolitan Schools (CMS) students and that of the more than 300,000 students in the other 72 public districts, 88 physical charter schools, and e-charter schools in an approximate 30 mile radius of CMS. For analysis purposes, Cleveland Area districts are divided into Ring 1—those adjacent to CMS and/or within Cuyahoga County—and Ring 2, the remaining districts.

Magnitude of mobility

The magnitude of mobility examines *how many* students change schools, both during the school year and between school years, and is measured in two ways: 1) cohort stability and 2) churn.

Cohort stability: measures retention of students over time

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

In the least stable Cleveland Area districts, about nearly one of every two students in a school at the beginning of a school year is not in that same building at the end of a second school year. The most stable districts lose fewer than one in twenty students.

Grades K-7 building stability
- **Cleveland Metropolitan Schools.** Fifty-five percent of a cohort of K-7 students remained in the same CMS building over two years, the second lowest stability rate of the 30 Cleveland Area Ring 1 districts.
- **Other less stable districts.** Maple Heights, Euclid, East Cleveland, Warrensville Heights, and Richmond Height had building stability rates of 70% or less for grades K-7.
- **Most stable districts**. Ten Ring 1 districts had building stability rates of 90% or greater for grades K-7, including Independence, Bay Village, Orange, Rocky River, Cuyahoga Heights, Brecksville-Broadview, Olmstead Falls, Solon, North Royalton, and Strongsville.

Grades 8-11 building stability
- **Cleveland Metropolitan Schools.** Fifty-eight percent of a cohort of grades 8-11 students remained in the same CMS building over two years, the lowest stability rate of the 30 Cleveland Area Ring 1 districts.
- **Other less stable districts**. Of the Cleveland Area Ring 1 districts, Cleveland-University Heights, East Cleveland, and Warrensville Heights also had building stability rates of 70% or less for grades 8-11.
- **Most stable districts**. Cuyahoga Heights, Brecksville-Broadview Heights, Solon, Independence, Bay Village, Rocky River, Olmstead Falls, Strongsville, Beachwood, Westlake, Beachwood, and North Royalton had building stability rates of 90% or greater for grades 8-11.

Charter school stability

- About one-quarter (21) of the largest charter schools in the Cleveland Area had rates of 70% or more, while more than one-third (31) had rates of less than 50%. The least stable charter schools are primarily dropout recovery schools.

Churn: measures movements into and out of a building or district

What are the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

There were more than 20,000 admissions to and withdrawals from schools in the 30 Cleveland Area Ring 1 districts during the 2010-2011 school year. For the majority of these districts, churn in grades K-8 resulted in a net gain of students (more admissions than withdrawals), while the churn in grades 9-12 produced a net loss of students (more withdrawals than admissions) for nearly all districts.

District churn

- **Cleveland Metropolitan Schools.** The CMS K-8 churn rate (16.2%) was the seventh highest, and the 30.8% churn rate for grades 9-12 was the second highest, among the 30 Ring 1 districts. Many of the lowest churn CMS buildings are specialty or magnet schools. The 40 CMS buildings with the most churn have rates ranging from 44-85%. The building with the most churn is the Buckeye-Woodland School.

- **Other high churn districts.** The Orange, Warrensville Heights, Maple Heights, and East Cleveland districts had K-12 churn rates of more than 20%.

- **Lowest churn districts.** The Cuyahoga Heights, Independence, Bay Village, Brecksville-Broadview Heights, Rocky River, and Solon districts had the least churn among the Ring 1 districts, with K-12 rates of below 4.0%.

Charter school building churn

- Eighteen of the 87 largest physical charter schools in the Cleveland Area had churn rates below 10%, while 16 schools had rates of greater than 50%. The charter schools with the greatest churn (104-205%) are primarily dropout recovery schools.

Mobility Patterns

Mobility patterns show the movement of students between school districts and buildings and between public districts and charter schools, as well as the characteristics of origin and destination schools. The analysis includes: 1) district and building mobility patterns, 2) report card ratings of origin and destination schools, and 3) inter-district open enrollment analysis.

Mobility patterns: districts and buildings that exchange students

How many unique students did pairs of districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts?

Over two school years, the 73 public districts in the Cleveland Area exchanged 27,076 students. Another 21,608 were exchanged between public districts and charter schools (both physical and e-charters). The largest numbers of exchanges were between districts in close proximity to each other, but CMS also exchanged students with other Major Urban districts across the state.

Cleveland Metropolitan Schools

Over two school years, 14,171 unique students transferred between CMS and another Ohio district or charter school. Of these, 53% moved to or from another district; 38% moved to or from a physical charter school; and 9% moved to or from an e-charter school. During this period, 10,173 students made a non-promotional change of schools within the CMS district.

- **Cleveland Metropolitan Schools exchanges with other districts.** Over two school years,8,454 students were enrolled in a CMS school and in one of the 30 Ohio public districts that exchanged the most students with CMS. In these exchanges, 3,684 students entered CMS from another district, and 4,761 students left CMS for another district. The districts that exchanged at least 500 students with CMS were East Cleveland, Euclid, Parma, Cleveland Heights-University Heights, Maple Heights, and Garfield Heights.

- **Cleveland Metropolitan Schools exchanges with charters.** Over two school years, 6,488 students were exchanged between CMS schools and the 30 largest charter schools. Seventy-eight of these exchanges were from CMS to a physical charter school, and 22% were with e-charters, led by eCOT (837 students).

- **Cleveland Metropolitan Schools exchanges with buildings in other districts.** The top 30 CMS inter-district building moves all occurred at the high school level. CMS John F. Kennedy, Glenville, John Adams, Collinwood, and John Marshall high schools exchanged a total of at least 100 students each with high schools in the Bedford, Cleveland Heights-University Heights, East Cleveland, Euclid, Garfield Heights, Lakewood, Maple Heights, Orange, Shaker Heights, and Warrensville Heights districts.

- **Exchanges among Cleveland Metropolitan Schools buildings.** There were 10,173 CMS students who changed schools within the CMS district over two years. Of the 30 CMS buildings that exchanged the most students, Lincoln-West High was the most frequent receiving school, followed by John F. Kennedy High, Glenville High, and Willson. The most frequent sending schools were East Technical High, John Adams High, James Ford Rhodes High, and Luis Munoz Marin High..

Other Cleveland Area districts

- **Exchange patterns among districts.** Over two years, there were 6,024 student exchanges among the 25 largest Cleveland Area districts (excluding CMS). The Mayfield, Cleveland Heights-University Heights, Riverside Lake, and Stow-Munroe Falls districts had the most inter-district exchanges. Districts that exchanged more than 200 students were Elyria and Lorain, Mayfield and South Euclid-Lyndhurst, Mentor and Willoughby-Eastlake, Akron and Cuyahoga Falls, and Euclid and Cleveland Heights-University Heights.

Origin and destination report card ratings

What is the performance rating of the destination school of mobile students, compared to the rating of the school of origin?

For students who moved into, out of, or within the CMS district, the report card rating of the student's destination school, when compared to that of the school of origin, varied based on the types of buildings or districts involved in the move:

- **Exiting CMS for another district.** Fifty percent went to a school with a rating two or more ratings higher than that of their school of origin; 47% went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin.

- **Entering Cleveland Metropolitan Schools from another district.** Fifty percent went to a school with a rating two or more ratings lower than that of their school of origin; 46% went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin..

- **Exiting Cleveland Metropolitan Schools for a charter school.** Fifty-seven percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin; 33% went to a school with a rating two or more ratings lower than that of their school of origin.

- **Changing schools within Cleveland Metropolitan Schools.** Seventy-three percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin.

Open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

As of school year 2010–2011, CMS had only one adjacent district—East Cleveland—that accepted open enrollment students from other districts. However, many districts in Ring 2 of the Cleveland Area do permit open enrollment. Twenty-four pairs of Cleveland Area districts had at least 50 students who resided in one district, but attended school in another district through open enrollment. These included Cleveland residence and enrollment in East Cleveland (700), Lorain and Clearview (498), Akron and Springfield (286), and Elyria and Midview (252).

Mobility and the student

The analysis of mobility and CMS student characteristics and achievement examines differences in: (1) demographics of mobile and non-mobile student groups, (2) demographics of students who left the district based on the type of destination school, and (3) proficiency test scores based on mobility status.

Student characteristics and mobility status

How do stable CMS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

- **Movers between Cleveland Metropolitan Schools buildings.** Compared to stable CMS students, those who move between CMS buildings were more likely to be black or homeless.

- **Outgoing and incoming students.** Compared to outgoing CMS students, incoming students were more likely to be Hispanic.

Student characteristics and destination of outgoing students

How do the characteristics of outgoing CMS students differ based on their destination school?

- **Race.** Compared to other racial groups, black students were more likely to move to a physical charter school; white students were more likely to move to an e-charter; and Hispanic students were more likely to move to a district outside of Ohio or e-charter school.

- **Homeless.** Homeless CMS students are more likely than those who are not homeless to move to a district outside of Ohio.

- **Immigrant.** Immigrant CMS students are more likely than those who are not an immigrant to move to a district outside of Ohio or a physical charter school.

- **LEP.** LEP students are more likely than those who are not LEP to move to a district outside of Ohio.

Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

Mobility history of test takers

Of the 6,130 3rd and 8th grade CMS students who took the OAA tests in spring 2011, 43% of 3rd grade test takers and 40% of 8th-grade test takers made at least one non-promotional move during the previous two school years. The largest mover group was those who made one move during the school year.

Mobility history and test scores

The slope of average test scores and passage rates of 3rd and 8th grade OAA tests based on number of number of school moves is fairly flat. All 0-move groups had the highest scores and rates, and the

group with one summer move had higher scores and rates than those with a school year move. However, there is no clear pattern among the other groups. For the 3rd grade reading and math tests, scores and rates were higher for the 3+ mover group than for those with one or two moves.

Statistical modeling compared mean test scores for mover groups. For the CMS student groups analyzed, the low p-values (<.0001) for all factors indicate that the number of school changes over two years is an independent predictor of test scores. There is a statistically significant relationship between more school moves and lower test score. Race is also independent predictors of test scores. There were not enough students in the "non-economic disadvantage" group to draw conclusions about this as a predictor of test scores.

Mobility and achievement test roll-up level

An impact of student mobility is that mobile students may not meet the enrollment criteria—continually enrolled in a building or district from October 31 until the spring achievement testing date—for counting their test scores in a building's or district's performance rating. Instead, their test score is "rolled up" and counts only for the district or state rating. Among the Cleveland Area Ring 1 districts, Cleveland has the highest percentage of students whose achievement test scores are rolled up to the state (14.2%), the highest among the 15 Major Urban districts.

Statewide context

To provide context for the data in the Cleveland Area Profile, Table i includes comparison data on key district demographics and selected mobility measures for the 15 public school districts classified by ODE as "Major Urban," as well as for all public districts and all public charter schools in the state.

Table i. Ohio Major Urban Districts: District and student characteristics, school year 2010–2011 (SY 2011)

	Rating	Average daily enrollment	Enroll. chg. since SY 2001 (%)	Economic disadvan. (%)	Minority race or ethnicity (%)	Two-year district stability rate, Oct. 2009–May 2011 (%)		Two-year building stability rate, Oct. 2009–May 2011 (%)		One-year churn rate, school year 2010–2011 (%)		Test roll-up to state (4) (%)
						Grades K–7	Grades 8–11	Grades K–7	Grades 8–11	Grades K–8	Grades 9–12	
All Ohio public school districts (1)	-	1,637,230	-6.2	43.1	23.3	85.9	81.5	80.8	78.0	9.5 (2)	9.1 (2)	4.5
All Major Urban districts	-	244,396	-39.6	82.6	70.1	77.6	70.0	64.3	60.5	16.5 (2)	22.7 (2)	9.1
Akron	C	22,603	-25.3	84.7	59.5	81.5	77.1	68.9	66.2	12.3	18.2	4.3
Canton	C	9,750	-18.3	80.6	51.8	82.0	80.2	68.1	74.6	15.6	21.3	5.6
Cincinnati	B	32,009	-20.3	69.7	75.8	77.6	72.2	65.0	58.7	16.2	15.2	8.1
Cleveland	D	43,202	-40.2	>95.0	85.4	76.5	66.1	54.7	57.7	16.2	30.8	7.1
Cleveland Hts.-Univ. Hts.	C	5,907	-14.3	61.3	83.0	79.4	72.1	73.8	66.9	15.8	22.7	14.2
Columbus	C	49,616	-22.0	81.9	73.0	76.5	70.4	67.4	61.8	18.5	23.5	10.1
Dayton	C	14,174	-31.1	92.5	74.8	78.5	71.5	68.8	64.8	18.2	19.4	7.9
East Cleveland	D	3,182	-43.7	88.5	>95.0	69.1	62.6	64.6	61.6	23.9	22.9	10.2
Euclid	C	5,793	-4.3	66.0	83.6	77.1	76.8	68.6	72.8	16.9	16.4	7.3
Hamilton (Butler County)	C	9,444	<0.1	69.2	24.6	80.7	74.9	68.4	66.2	18.7	22.4	8.2
Lorain	C	7,585	-26.3	84.5	72.0	77.2	71.8	60.4	53.9	19.8	25.6	8.5
Springfield (Clark County)	B	7,398	-24.2	76.3	37.9	81.3	69.7	64.7	51.4	14.5	24.0	6.1
Toledo	C	22,277	-39.4	76.6	60.0	74.9	60.1	63.5	49.0	16.5	31.1	8.7
Warren	D	5,368	-20.9	75.2	53.8	79.0	71.2	63.0	65.5	15.5	18.8	5.3
Youngstown	D	6,088	-42.5	91.9	83.1	74.3	65.3	60.5	55.3	20.4	27.4	8.2
All Ohio public charter schools	-	113,698	-	75.0	60.8	-	-	50.6 (3)		27.2 (2,3)		13.7
E-charters	-	3,3052	-	64.7	21.0	-	-	44.2 (3)		129.9 (2,3)		30.8

Source: Ohio Department of Education; CRP analysis of ODE enrollment records

Note: District rating A+=Excellent with Distinction, A=Excellent, B=Effective, C=Continuous Improvement, D=Academic Watch, F=Academic Emergency.

(1) Public school district data in this table do not include the island districts or College Corner.

(2) Median of churn rates

(3) Churn rates for grades K-11 or K-12

(4) Among spring 2011 math achievement assessment test-takers in grades 3 to 8 reported by district (or charter school), the percentage whose scores were rolled up to state level; i.e., student was not continuously enrolled in district (or charter school) since last day of October for same academic year

1.0 Introduction

1.1   What is student mobility?

Student mobility is the phenomenon of students in grades K-12 changing schools for reasons other than customary promotion from elementary school to middle school or from middle school to high school. This non-promotional school change can occur during the school year or in the summer between school years. It may involve residential change, school change, or both.

Students may change schools for reasons that are considered positive, such as when a family moves to a better school, neighborhood, or job. In fact, the current education policy environment sends a strong message to parents that school choice—which typically involves school change—is good. Community-based charter schools and school voucher programs are examples of school choice policy initiatives. The federal No Child Left Behind Act of 2001 (NCLB) requires that school districts provide students in schools identified as "In School Improvement," based on trends in proficiency test passage rates, with the opportunity to transfer to a school not designated as "In School Improvement."

1.2   The importance of understanding student mobility

Student mobility has consequences for schools, students, communities, and public policy. Research has found that students who change schools more frequently are likely to have worse educational outcomes. Highly mobile students are also more likely to be those with other risk factors—low income, special education, homelessness, or an unstable home environment. School changes worsen the learning and achievement problems of these at-risk children.

High student mobility puts a stress on teachers and administrators who must continually focus on incorporating new students into the building and classroom. Stable students in schools with high mobility also suffer from the disruptions to the classroom environment and the slower instructional pace necessary to accommodate new students. School districts face increased administrative costs from student mobility, including costs related to student records transfer and transportation.

There are community impacts of high student mobility that reach beyond the school. Neighborhoods and school districts with low performing schools and unstable school populations are disincentives to home ownership and economic development. Investments in school-based initiatives to improve attendance, academic achievement, and graduation rates are less effective if students move from school to school, dropping in and out of programs.

Finally, student mobility has important consequences for state and local education policy. A better understanding of how mobility impacts schools and students has implications for accountability measurement, education funding, and curriculum and instruction.

1.3   The Ohio Student Mobility Research Project

History of the project

In 2011, Community Research Partners (CRP) and the Thomas B. Fordham Institute (Fordham) entered into a partnership to conduct research on student mobility in Ohio. Fordham, a national leader in advancing educational excellence through quality research, commentary, and advocacy, wanted to build on their recent research on student mobility in the Dayton area and examine student mobility throughout the state. CRP brought to the project its experience in undertaking research on student mobility in the Columbus City Schools (CMS) and in processing and analyzing student-level records from the Ohio Department of Education (ODE).

In June 2011, Fordham provided CRP with a planning grant to develop a workable research plan. ODE provided CRP with student-records from the Education Management Information System (EMIS). Beginning with the 2008-2009 school year, EMIS has included unique student identifiers that enable tracking of individual students over time as they enter and exit public districts and public

charter schools in Ohio. With assistance from ODE staff in understanding and using the EMIS data, CRP analyzed student records for Franklin County districts. The outcome of the planning phase was a design for a large-scale study of student mobility in Ohio, to be conducted by CRP. Work on the project began in February 2012.

Project funders

The diverse set of project funders is indicative of the importance of the issue of student mobility. Funders are supporting the Ohio Student Mobility Research because of their interest in understanding: 1) the patterns of student mobility in Ohio or in a local community, 2) the impact of mobility on students and schools, and/or 3) the implications of mobility for state and local public policy. In addition to Fordham, funders include: The Siemer Institute for Family Stability, The Nord Family Foundation, The Cleveland Foundation, KnowledgeWorks, KidsOhio.org, American Federation of Teachers/Ohio Federation of Teachers, School Choice Ohio, United Way of Central Ohio, United Way of Greater Toledo, and The Columbus Foundation.

Research components

CRP and Fordham are not aware of other research that has examined student mobility at the scale, scope, and level of detail of the Ohio Student Mobility Research. The research employs descriptive and analytic statistics—presented in spreadsheets, visualizations, and reports—to provide a picture of student mobility for all Ohio public school districts and buildings and public charter schools, with in-depth analysis for five large urban regions (Columbus, Cleveland, Cincinnati, Dayton, Toledo).

The research also addresses several state policy issues of interest to Fordham: 1) open enrollment patterns, 2) "non-counters" profile (students whose test scores do not count in district performance ratings), and 3) monthly enrollment profiles of public districts. The project did not include collecting qualitative data from students, families, school personnel, or other stakeholders to determine why students change schools or the impact of student mobility.

About the data

As would be expected when undertaking such complex research, CRP made a number of decisions, in consultation with Fordham and ODE, about data analysis methods, definitions, and parameters. There are also a number of caveats about the data that are important to understand. These are described below.

The dataset

The dataset includes ODE EMIS files (student standing, student attributes, and student achievement tests) with 2.1 million unique students in grades K-12 during the 2009-10 and 2010-11 school years. (about five million instances of enrollment). The following were excluded from the analysis dataset:

- Non-instructional relationship between student and district, i.e. district provides only supportive services to student or has a residual reporting requirement for student

- Zero days in attendance over entirety of enrollment record

- Educational Service Centers

- Preschools and preschool students

- Foreign exchange students

- Kindergarten withdrawals

- Island Districts and College Corner, which are very small or geographically isolated

In school year 2010-11, the 1.79 million unique students included:

- 1.66 million students in 612 public school districts and 3,293 public school buildings

- 81,800 students in 313 "bricks and mortar," or physical, public charter schools

- 48,900 students in 26 accredited e-charters, a subset of charter schools

- 1,500 students in state schools for the deaf and blind

- 93,400 students in 71 vocational schools

Definitions

Charter schools. Ohio public charter schools (called "community schools" by ODE) include "bricks and mortar" schools that have school buildings and accredited e-charters, where teaching is done on-line. For brevity and clarity in this report, these two types of charter schools are referred to as: 1) *physical charter schools* and 2) *e-charter schools*.

School year. For most of the analysis, a school year is defined as beginning on October 1 (the official fall enrollment count date for Ohio schools) and ending on May 15. This was done to accommodate the various starting and ending dates of schools across the state.

Mobility-related terms. Report sections 3.0, 4.0, and 5.0 begin with definitions and other information related to the mobility measures used in this report.

Local context

The research scope and timeline did not include collecting information on unique situations in local districts or charter schools, not always evident in the EMIS dataset, which may contribute to or explain mobility rates and patterns. These may include: 1) competitive magnet or alternative schools that only admit students at the beginning of the school year, 2) school building demolition, renovation, or new construction that result in large numbers of students changing buildings; 3) starting, ending, or moving special programs (programs for students with disabilities, LEP students); 4) grade realignment (changing a school from K-5 to K-8); or 5) special purpose schools, (dropout recovery, welcome/transition schools) that by design involve students moving in and out throughout the year. CRP and Fordham hope that discussion of the research by local education stakeholders will provide this additional context for the data analysis.

Reliability of student identification numbers

This research is only possible because ODE has unique statewide student identifiers (SSID) that enable tracking students across public schools and districts. However, there is anecdotal evidence from district staff and others familiar with student recordkeeping that a new identifier is sometimes assigned to a student who enrolls in a new district. Because ODE records do not include student names, it was not possible for CRP to determine the extent to which this is happening; however, ODE data staff believes that it involves a very small number of cases.

The school attendance data controversy

As this report is being written, the State Auditor is examining student attendance data for districts across Ohio. It is alleged that some school staff withdrew students they knew to be still enrolled, deleted their absences, and then re-enrolled them, for the purpose of improving school ratings. This practice would increase a school's attendance rate, and only the test scores of students who have been continually enrolled from October through the spring proficiency test dates are counted in a school's overall test-passage rate.

This does not, however, impact the Ohio Student Mobility Research for the following reasons:

1. Student attendance records were not used for the research.

2. For the purposes of calculating building churn rates, a student who was withdrawn and then readmitted to the same building in less than 30 days was treated as continuously enrolled rather than as an exit/reentry event. It was assumed that this was an administrative action and not a school move.

3. Analysis of the relationship of mobility to proficiency test scores is based on individual student records. Building-level test passage rates were not used.

In addition, this research includes a profile of "non-counters"—students whose test scores do not count in building or district report cards—which can help to inform this important dialogue.

Caveats about accuracy

CRP has been very careful in collecting, analyzing and presenting data to prepare the Ohio Student Mobility Research Project report. However, the project did not include authenticating the data provided by ODE. If careful readers of the report discover data errors or typographical errors, CRP welcomes this feedback and will publish corrections to the report.

The Cleveland Area Profile

This report is a mobility profile of students in the Cleveland Area. It focuses on the mobility of CMS students and how students move within the district and between and among 72 districts and 88 physical charter schools within an approximate 30 mile radius of CMS. The analysis includes:

- **Magnitude of mobility:** stability of students within districts and buildings (cohort stability) and numbers of movements into and out of districts and buildings (churn).

- **Mobility patterns:** origin and destination of movement between buildings and districts.

- **Mobility and students:** the relationship of mobility to student demographic characteristics and student achievement.

Additional data

- **Appendix.** Additional detailed data on student mobility for individual Cleveland Area districts, buildings, and charter schools can be found in the appendix of this report.

- **Online spreadsheets.** Excel spreadsheets with mobility data for every public district, building, and charter school in Ohio can be found at: www.researchpartners.org.

- **Profile reports for other urban areas.** Profile reports for the Cincinnati, Columbus, Dayton, and Toledo areas are available at: www.researchpartners.org.

2.0 The Cleveland Area

The Cleveland Area, as defined for the student mobility research, is the geographic area includes all public school districts and public charter schools within approximately 30-miles of the central district, Cleveland Municipal Schools (Map 1; Table 1). Portions of the analysis also include students within the Cleveland Area who attend e-charters.

For the purpose of data analysis, the 72 districts are divided into:

- **Ring 1**: districts adjacent to CMS and/or within Cuyahoga County
- **Ring 2**: the remainder of the districts, which are farther from the CMS district

Most of the analysis in this report is focused on the central urban district and the Ring 1 districts; however data about all districts in the Cleveland Area can be found in the appendix and in on-line spreadsheets at www.researchpartners.org.

Map 1. School districts in the Cleveland Area
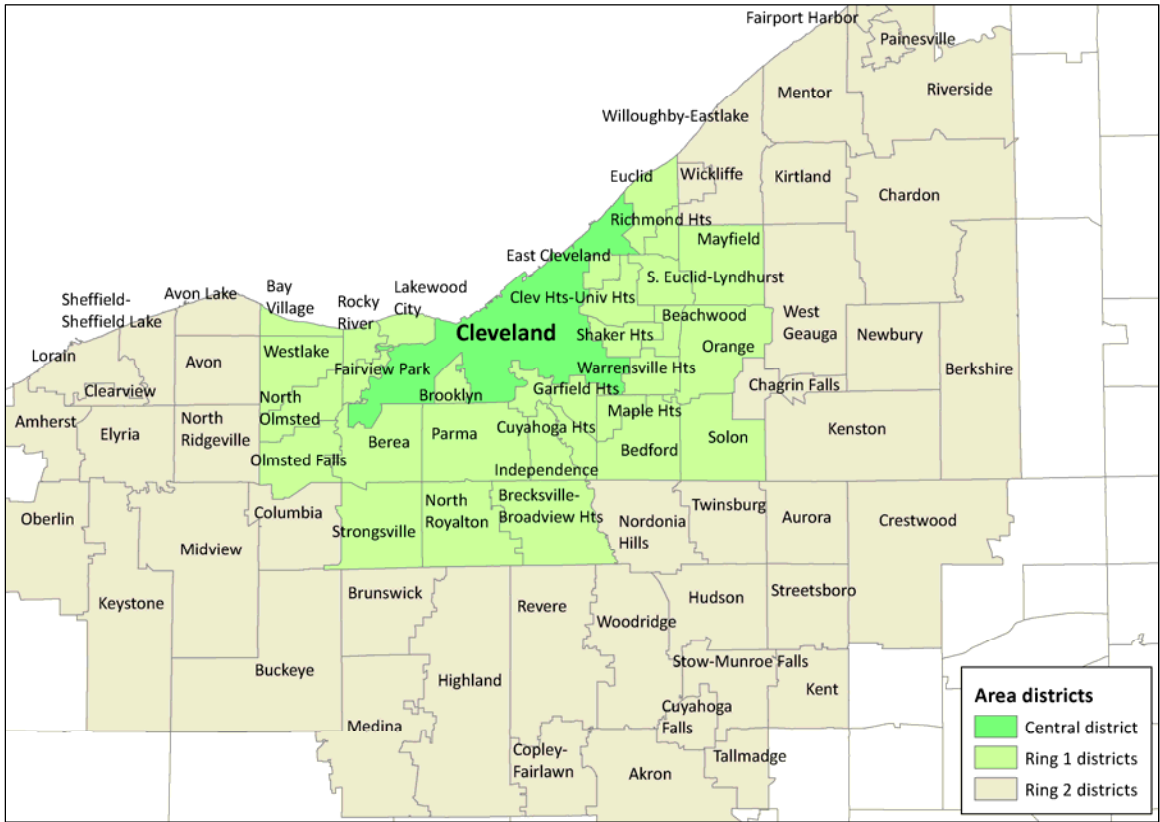
Note: In the maps of this report, district outlines are based on U.S. Census TIGER files.

Table 1. Number of public districts and school buildings in the Cleveland Area, school year 2010–2011

	Public districts	Buildings in public districts	Public charter schools
Cleveland Metropolitan Schools (CMS)	1	103	50
Ring 1 (districts within same county or adjacent to CMS)	29	190	14
Ring 2 (other districts within 30 miles of CMS)	43	305	24

Note: See Section 1 for types of schools included and excluded

2.1 Cleveland Area schools at a glance

Cleveland Metropolitan Schools: student characteristics

Cleveland Metropolitan Schools is the second largest district in Ohio and has had a 40% drop in enrollment since 2001 (Table 2). In school year 2010-11, more than 8 in 10 CMS students were a minority race or ethnicity, including 68.2% black, 13.2% Hispanic, and 0.7% Asian students. More than 9 in 10 students were economically disadvantaged (eligible for Free and Reduced Price Lunch Program); 1.0% were immigrants; 6.1% had limited English proficiency (LEP); and 23% had a disability. Of the more than 2,000 homeless students in Cleveland Area districts in school year 2010, 55% were enrolled in CMS.

Among children ages 5–17 living within the CMS district boundaries, 15,713 (20.6%) lived in a different house than they did one year prior. About 1 in 5 children residing within the district and enrolled in grades 1–12 were enrolled in a private school. (American Community Survey 2010)

Other Cleveland Area districts: student characteristics

The following are characteristics of the 72 Ring 1 and Ring 2 districts (excluding CMS) in the Cleveland Area for school year 2010-2011 (Table 2 and Appendix):

- Twelve districts had economic disadvantage rates above 50% (East Cleveland, Akron, Lorain, Painesvillle City, Maple Heights, Elyria, Euclid, Garfield Heights, Cleveland Heights-University Heights, Bedford, Warrensville Heights, and Richmond Heights).

- Three districts had LEP rates above 5%, including Painesville City, Lakewood City, and North Olmsted (all higher than CMS at 6.1%).

- In 14 districts (East Cleveland, Warrensville Heights, Maple Heights, Richmond Heights, Bedford, Euclid, Cleveland Heights-University Heights, Lorain, Painesville City, South Euclid-Lyndhurst, Shaker Heights, Garfield Heights, Akron, and Clearview) minority students make up more than half of the student population.

- Akron had the second largest number of homeless students (320) after CMS.

Table 2. Cleveland Area: Student characteristics, school year 2010–2011

School district	Enrollment (1)	Enrollment change since SY 2001 (%)	Economic disadvantage (%)	Minority (%)	Limited English Prof. (%)	Homeless
All districts in Cleveland Area	322,623	-11.7	45.0	36.9	2.5	2,050
All Ring 1 districts	155,395	-19.0	54.7	51.6	3.1	1,370
Cleveland	43,202	-40.2	>95%	85.4	6.1	1,123
Parma	11,251	-11.4	42.6	12.1	1.9	27
Berea	7,017	-9.2	37.5	19.0	1.3	-
Strongsville	6,515	-4.5	15.3	12.5	2.8	-
Cleveland Hts.-Univ. Hts.	5,907	-14.3	61.3	83.0	1.2	23
Euclid	5,793	-4.3	66.0	83.6	0.2	-
Lakewood	5,667	-20.4	49.3	24.6	6.8	74
Shaker Hts.	5,388	-2.0	31.6	63.1	2.2	22
Solon	5,043	+2.8	9.2	32.4	2.5	-
North Royalton	4,368	+3.5	15.7	8.8	1.7	-
Brecksville-Broadview Hts.	4,288	+5.2	11.5	11.2	1.6	-
South Euclid-Lyndhurst	4,174	-0.9	48.5	68.8	1.1	-
Mayfield	4,141	+0.8	19.8	25.5	2.7	-
North Olmsted	4,001	-12.9	38.6	13.0	6.5	-
Westlake	3,891	+9.7	14.6	11.9	2.6	-
Garfield Hts.	3,823	+12.6	64.7	60.5	0.4	55
Maple Hts.	3,793	-0.2	70.8	96.8	0.3	-
Olmsted Falls	3,638	+20.7	17.1	7.9	0.5	-

Table 2. Cleveland Area: Student characteristics, school year 2010–2011 (continued)

School district	Enrollment (1)	Enrollment change since SY 2001 (%)	Economic disadvantage (%)	Minority (%)	Limited English Prof. (%)	Homeless
Bedford	3,566	-7.2	60.6	88.4	0.8	-
East Cleveland	3,182	-43.7	88.5	>95%	0.3	24
Rocky River	2,529	+6.1	11.2	8.0	2.0	-
Bay Village	2,453	+10.0	9.6	6.0	0.7	-
Orange	2,203	-3.5	13.8	34.1	1.0	-
Warrensville Hts.	1,956	-34.1	60.2	99.3	0.0	22
Fairview Park	1,703	-8.3	26.2	13.0	4.0	-
Beachwood	1,551	0.0	10.1	38.8	2.6	-
Brooklyn	1,456	+9.6	48.6	31.3	3.8	-
Independence	1,101	+7.4	10.3	<5.0	0.0	-
Cuyahoga Hts.	906	+14.5	21.3	6.7	0.0	-
Richmond Hts.	889	-14.0	53.0	89.1	2.0	-
All Ring 2 districts	167,228	-3.6	35.9	23.3	1.9	680
Cleveland Area physical charter schools	20,767	-	78.2	76.5	-	-
Cleveland Area students in e-charter schools	5,961	-	66.6	39.6	-	-

Source: Ohio Department of Education

Note: (1) For e-charters, enrollment is October 1 enrollment of students residing in Cleveland Area districts; for all other districts, figure is average daily enrollment.

Cleveland Area districts: school performance designations

ODE assigns annual report card ratings to school buildings and districts based on student performance and progress. In this report, rating letters of A+ to F are used to represent the six-level state performance designation system for school districts and buildings (Map 2 legend).

- Among the 73 Cleveland Area districts, 50 had the two highest designations (Excellent or Excellent with Distinction) for school year 2010–2011. Three districts had the second-lowest designation of Academic Watch, while no districts had the lowest designation of Academic Emergency.

- CMS had a rating of Academic Watch, as did 3 of the other 15 Major Urban school districts in Ohio (see Table i) in Ohio.

- Of the 103 CMS school buildings in operation, 7 had the two highest state report card designations, and 59 had the two lowest designations.

Map 2. Cleveland Area districts: ODE report card designations, school year 2010–2011
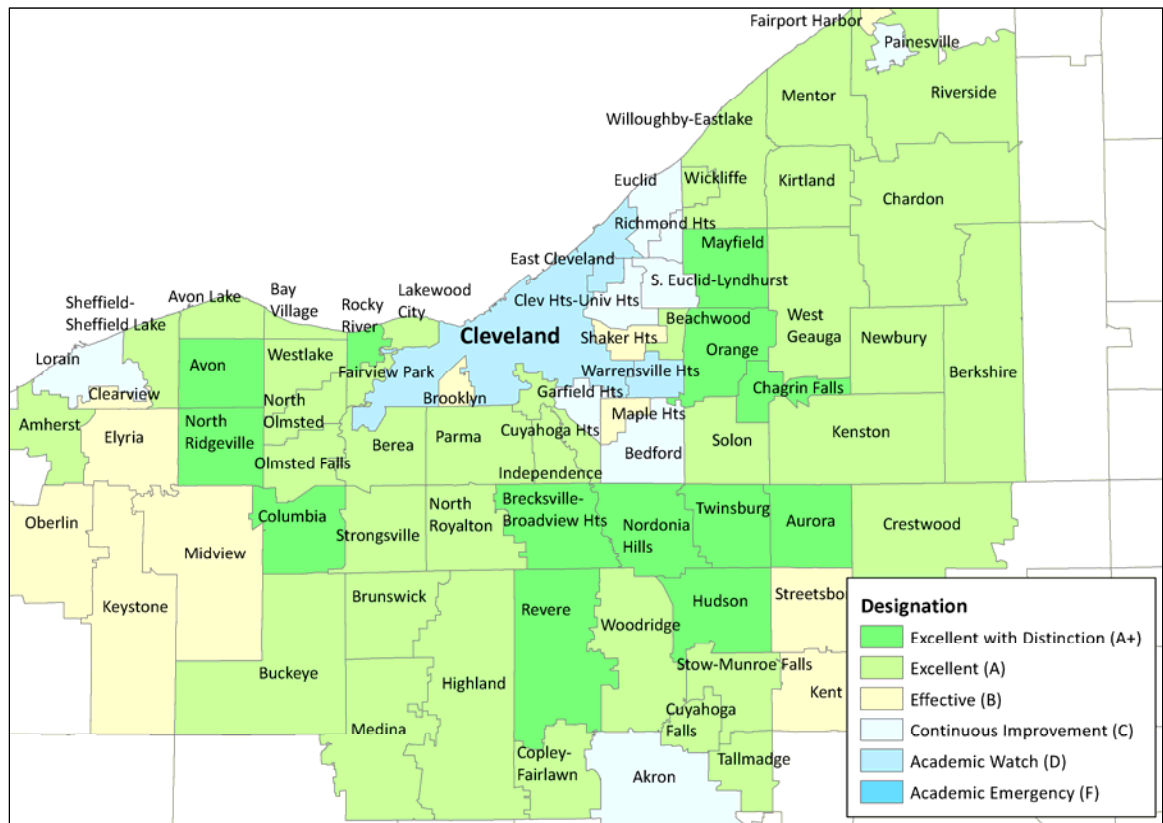
Source: Ohio Department of Education

Voucher holders

The Ohio Educational Choice Scholarship Program (EdChoice) provides students from underperforming public schools with the opportunity to attend participating private schools. Students currently attending—or who will be assigned to—a public school in their resident district that has been rated in Academic Emergency or Academic Watch for two of the past three years are eligible to apply. Students currently attending a charter school whose home school is an eligible school are also eligible.

In school year 2010-2011, there were more than 6,922 voucher holders whose district of residence was a Cleveland Area district. The districts of residence of these voucher holders were:

- Cleveland—5,238
- Akron—562
- Euclid—474
- Lorain—278
- Warrensville Heights—161
- East Cleveland—94
- Maple Heights—86
- Elyria—15
- Painesville—14

Vouchers were used at 62 Cleveland Area private schools (Table 3). These figures were prior to adoption of the state 2011-2012 budget, which tripled the number of vouchers available to Ohio students.

Table 3. School of attendance of Cleveland Area EdChoice voucher holders, school year 2010–2011

School of attendance of voucher holders	Number of vouchers	School of attendance of voucher holders	Number of vouchers
St Peter	138	Archbishop Lyke-St Timothy Cam	< 10
St John of the Cross School	132	Beaumont	< 10
SS Robert and William School	102	Cleveland Central Catholic	< 10
Emmanuel Christian Academy	87	Julie Billiart	< 10
St Bernard - St Mary School	86	Lutheran West	< 10
St Peter Chanel	85	Magnificat	< 10
Lutheran East	65	Metro Catholic Parish	< 10
Holy Spirit Academy	61	Ramah Junior Academy	< 10
Arlington Christian Academy	59	Regina College Preparatory	< 10
St Anthony of Padua	51	Saint Martin de Porres High School	< 10
St Vincent St Mary	51	St Adalbert	< 10
Lake Catholic	50	St Ignatius	< 10
Our Lady of the Lake School	49	St Jerome	< 10
Archbishop Hoban	47	St John Lutheran	< 10
Open Door Christian Schools Inc.	46	St Stanislaus	< 10
North Akron Catholic	44	Polaris Christian Academy	< 10
Chapel Hill Christian North	39	Notre Dame School	< 10
Summit Christian School	38	Mater Dei Academy	< 10
Richmond Heights Christian	36	Elyria Catholic	< 10
Cornerstone Christian Academy	35	Elyria Christian Academy	< 10
Cuyahoga Valley Christian Acad	31	Lake Ridge Academy	< 10
John Paul II Academy	30	St Joseph	< 10
Villa Angela - St Joseph	29	St Jude	< 10
St Paul	21	St Mary	< 10
Notre Dame-Cathedral Latin	17	Akron Montessori	< 10
Open Door Christian Schools	17	Chapel Hill Christian Green Campus	< 10
St John Lutheran	13	Cornerstone Community	< 10
St Martin Of Tours	12	Faith Islamic Academy	< 10
Benedictine	11	Mayfair Christian School	< 10
St Augustine	11	St Anthony Of Padua	< 10
Archbishop Lyke-St Henry Campus	< 10	St Vincent De Paul	< 10

Source: Ohio Department of Education

Cleveland Area Profile **|** Ohio Student Mobility Research Project

3.0 Magnitude of mobility

3.1 Section overview and key concepts

This section of the report examines how many students change schools, both during the school year and between school years. The school year is defined as the period from October 1 (the date that districts report enrollment to ODE) and May 15. Promotional moves (elementary to middle school; middle school to high school) are not included in these calculations. The magnitude of mobility is measured in two ways: (1) cohort stability and (2) churn. Both are calculated at the district and building levels.

This report provides an overview of the magnitude of mobility in Cleveland Area schools. Additional cohort stability and churn data for districts, buildings, and charter schools can be found in the Appendix and in online spreadsheets www.researchpartners.org.

Cohort stability: measures retention of students over time

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

- **School District Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same district at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

- **School Building Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same building at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

Data notes

- A student who changed buildings within a district over two school years, but remained consistently enrolled in the district, is considered a stable student in the district-level stability calculation.

- Some building cohort instability is the result of changes in district programming that moves groups of students (e.g. LEP students) from one building to another.

- The analysis did not capture students who moved out of, and back into, a district or building during a school year (between October 1 and May 15)

Churn rate: measures movements into and out of a building or district

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

- **District churn rate:** The sum of all instances of district admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school year 2010-2011.

- **Building churn rate:** The sum of all instances of building admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school year 2010-2011.

Data notes

- A student's building enrollment Start Date that was fewer than 30 days following the Withdrawal Date from the same building was treated as continuous enrollment rather than an exit/reentry event.

- Because churn measures moves, individual students can be counted multiple times, each time they leave a district or building, and each time they enter a district or building, during a school year.

3.2   Student cohort stability

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

In the least stable Cleveland Area districts, about nearly one of every two students in a school at the beginning of a school year is not in that same building at the end of a second school year. The most stable districts lose fewer than one in twenty students.

School district stability for Cleveland Area districts grades K-7

Cleveland Metropolitan Schools

- Of the CMS October 2009 grades K-7 cohort, 76.5% of the students remained in the district over two years, and 53.0% remained in the same CMS building over two years (Map 3).

- Compared to the 15 districts designated as Major Urban by ODE, CMS had the 11th lowest district K-7 stability rate (Table i). Canton City School was most stable, with a rate of 82.0%, while East Cleveland Schools were the least stable, with a rate of 69.1%.

Other Cleveland Area districts

- Warrensville Heights and East Cleveland were the only Ring 1 districts with district stability rates for grades K–7 that were below 70%.

- Independence, Bay Village, Orange, Rocky River, Cuyahoga Heights, Brecksville-Broadview, Olmstead Falls, Solon, North Royalton, Strongsville, Westlake, and Mayfield were the most stable Ring 1 districts, with rates of 90% or greater for grades K-7.

- Among districts with 50% or more economically disadvantaged students, Elyria had the highest district stability rate (82.9%) and Garfield Hts. had the highest building stability rate (78.0%) for grades K–7

Table 4. Cleveland Area Ring 1 Districts: Two-year district and building stability for Grades K–7

Districts	District Rating	District stability		Building stability (1)	
		October 2009 district cohort	In same district May 2011 (%)	October 2009 building cohort	In same building May 2011 (%)
Independence	A	563	96.3	493	96.1
Bay Village	A	1,543	95.1	1,141	95.1
Orange	A+	1,230	91.1	1,024	94.6
Rocky River	A+	1,517	94.0	1,131	94.3
Cuyahoga Hts.	A	500	94.0	437	93.8
Brecksville-Broadview Hts.	A+	2,440	94.5	1,764	93.3
Olmsted Falls	A	2,263	92.8	1,387	92.5
Solon	A	2,893	93.6	2,062	91.7
North Royalton	A	2,519	91.2	1,922	90.7
Strongsville	A	3,779	92.9	2,830	90.5
Brooklyn	B	770	89.9	669	89.5
Westlake	A	2,241	91.7	1,644	89.3
Beachwood	A	801	89.1	589	89.0
Fairview Park	A	1,017	88.1	751	88.7
Berea	A	3,850	89.9	3,307	88.5
North Olmsted	A	2,384	88.4	1,757	85.7
Shaker Hts.	B	3,246	86.0	2,395	84.6
Mayfield	A+	2,182	90.2	1,686	84.3
South Euclid-Lyndhurst	C	2,401	83.2	1,795	81.2

Table 4. Cleveland Area Ring 1 Districts: Two-year district and building stability for Grades K–7 (continued)

Districts	District Rating	District stability		Building stability (1)	
		October 2009 district cohort	In same district May 2011 (%)	October 2009 building cohort	In same building May 2011 (%)
Parma	A	6,750	85.7	5,635	80.9
Lakewood-Cuyahoga County	A	3,377	83.5	2,949	78.2
Garfield Hts.	C	2,249	79.2	1,651	78.0
Bedford	C	2,086	80.6	1,524	75.5
Cleveland Hts.-Univ. Hts.	C	3,454	79.4	3,011	73.8
Maple Hts.	B	2,202	76.7	1,111	72.9
Euclid	C	3,176	77.1	2,737	68.6
East Cleveland	D	1,699	69.1	1,474	64.6
Warrensville Hts.	D	1,239	66.1	143	63.6
Cleveland	D	28,220	76.5	24,785	54.7
Richmond Hts.	C	519	75.0	443	53.0

Source: CRP analysis of ODE enrollment records

(1) Excluded from the building cohort are students who would be expected to be promoted to a different building in year 2.

Map 3. Cleveland Area: Two-year building stability rate for grades K–7, October 2009–May 2011
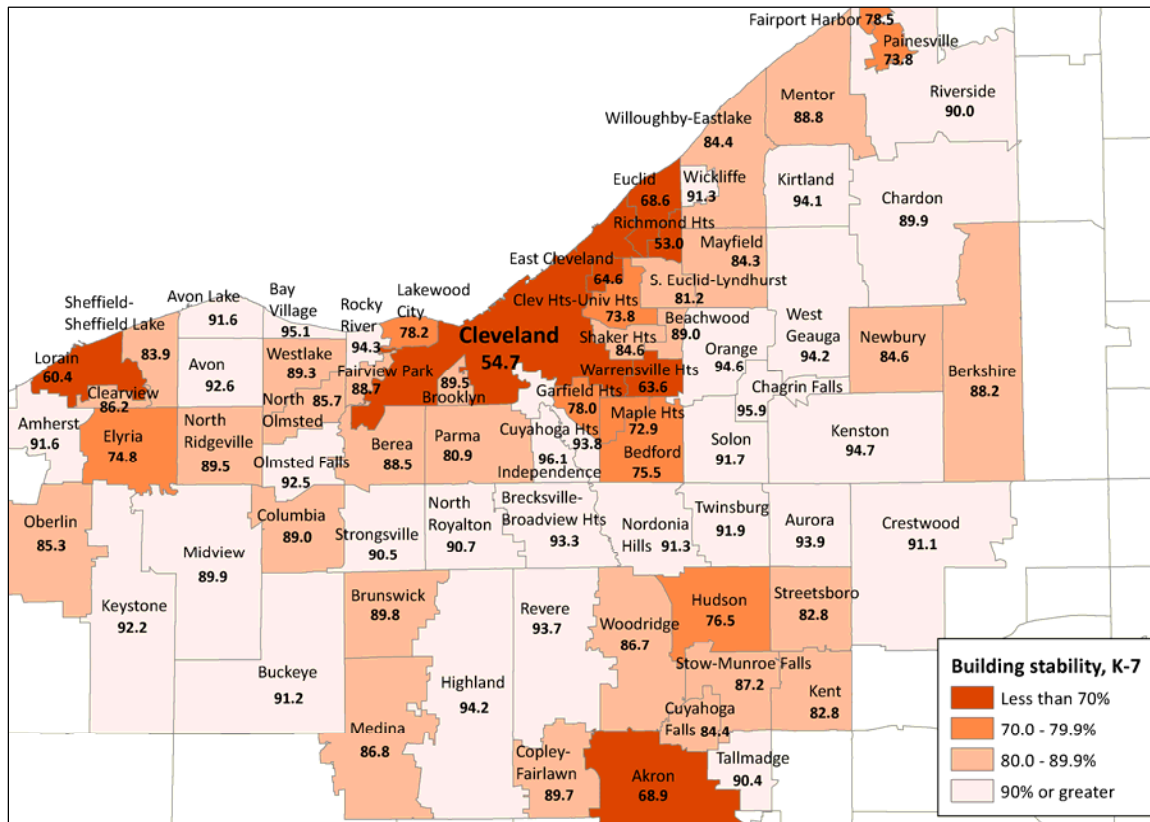
Source: CRP analysis of ODE enrollment records.

School district stability grades 8–11

Cleveland Metropolitan Schools

- CMS district and building two-year stability rates (66.1% and 57.7%, respectively) for grades 8–11 were lower than corresponding stability rates for grades K–7 (Table 4).

- Compared to the 15 districts designated as Major Urban by ODE (Table i), CMS had the 4th lowest district grades 8–11 stability rate. Canton City Schools were most stable, with a rate of 80.2%, while Toledo City Schools were the least stable, with a rate of 60.1%

Other Cleveland Area districts

- The Ring 1 districts Warrensville Heights (61.4%), East Cleveland (62.6%) had district stability rates for grades 8–11 that were below 70%. Westlake, Beachwood, North Royalton, Olmsted Falls, Strongsville, Independence, Rocky River, Chagrin Falls Village, Bay Village, Solon, Brecksville-Broadview Heights, and Cuyahoga Heights had grades 8–11 district stability rates of 90% or greater.

- Of the Ring 2 districts, Fairport Harbor (68.6%) had a district stability rates for grades 8-11 that was below 70%. Mentor Village, Stow-Munroe Falls, Kirtland, Highland-Medina, Willoughby-Eastlake, Copley-Fairlawn, Berkshire, Twinsburg, Avon Lake, Aurora, Nordonia Hills, Avon Local, Revere, Hudson, Chagrin Falls, Kenston, and West Geauga had grades 8–11 stability rates above 90%.

Table 5. Cleveland Area Ring 1 Districts: Two-year district and building stability for Grades 8–11

Districts	District rating	District stability		Building stability (1)	
		October 2009 district cohort	In same district May 2011 (%)	October 2009 building cohort	In same building May 2011 (%)
Cuyahoga Hts.	A	316	94.9	241	96.3
Brecksville-Broadview Hts.	A+	1,611	94.5	1,243	95.3
Solon	A	1,791	94.1	1,395	94.6
Independence	A	424	93.2	321	94.4
Bay Village	A	789	94.0	587	93.7
Rocky River	A+	881	93.5	678	93.5
Olmsted Falls	A	1,184	92.2	876	92.8
Strongsville	A	2,445	93.0	1,887	92.6
Beachwood	A	564	92.0	460	92.2
Westlake	A	1,344	91.4	992	91.5
North Royalton	A	1,621	92.2	1,243	91.0
Mayfield	A+	1,638	89.8	1,637	89.8
Orange	A+	789	86.6	578	89.3
Berea	A	2,417	89.7	1,846	89.2
North Olmsted	A	1,468	88.8	1,115	89.0
South Euclid-Lyndhurst	C	1,542	87.2	1,207	88.5
Fairview Park	A	592	88.0	457	88.2
Brooklyn	B	503	85.9	381	82.7
Shaker Hts.	B	1,745	83.0	1,343	82.5
Parma	A	4,423	84.8	3,346	80.9
Lakewood	A	1,849	80.3	1,400	75.5
Garfield Hts.	C	1,466	76.5	1,133	73.6
Bedford	C	1,224	76.7	935	73.4
Euclid	C	2,163	76.8	1,699	72.8
Maple Hts.	B	1,197	72.7	918	72.5
Richmond Hts.	C	306	71.9	306	71.9
Cleveland Hts.-Univ. Hts.	C	1,978	72.1	1,521	66.9
East Cleveland	D	1,405	62.6	1,162	61.6
Warrensville Hts.	D	740	61.4	575	58.1
Cleveland	D	15,708	66.1	10,653	57.7

Source: CRP analysis of ODE enrollment records

(1) Excluded from the building cohort are students who would be expected to be promoted to a different building in year 2.

Map 4. Cleveland Area: Two-year building stability rate for grades 8–11, October 2009–May 2011
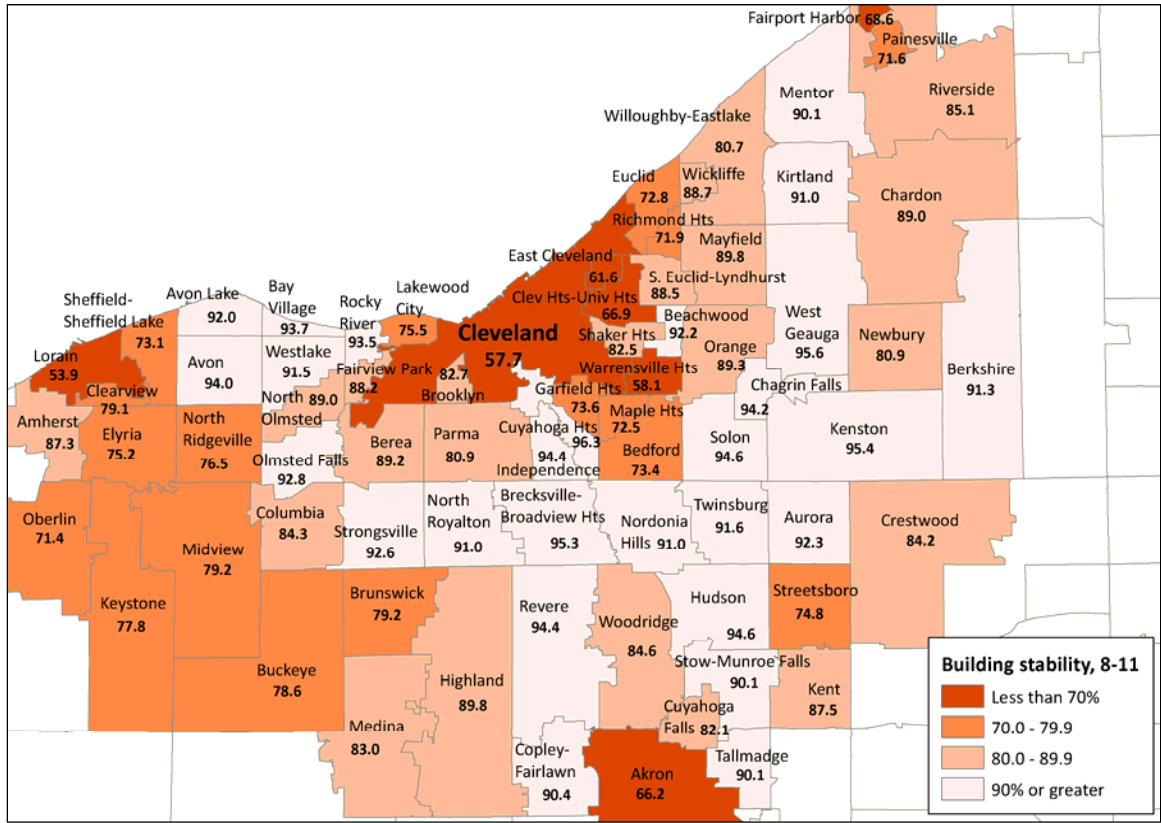
Source: CRP analysis of ODE enrollment records

Building stability for Cleveland Metropolitan Schools

A number of the most stable CMS buildings are specialty or magnet schools (Table 6). CMS buildings with the lowest stability rates lose approximately one-half to two-thirds of the students in a cohort over two school years (Table 7).

Table 6. CMS: 40 *most stable* school buildings, October 2009–May 2011

School building	Grade range	Rating	Oct. 2009 cohort	In same building, May 2011 (%)
John Hay School of Science & Medicine	9-12	A	265	88.3
Buhrer	PK-8	C	279	85.7
Cleveland School of Arts (Dike Campus)	PK-6	B	343	85.4
John Hay School of Architecture & Design	9-12	A	204	84.8
John Hay Early College High School	9-12	A	172	83.7
Cleveland School Of The Arts High School	7-12	B	512	81.4
Whitney Young School	2-12	A+	308	80.5
Riverside School	K-8	B	468	78.6
Garrett Morgan School Of Science School	9-12	B	201	78.1
Health Careers Center High School	9-12	C	219	75.8
Warner Girls Leadership Academy	PK-5	C	251	75.3
Success Tech Academy School	9-12	C	183	74.9
Law & Municipal Careers @ MLK	9-12	F	209	74.2
Max S. Hayes High School	9-12	C	459	73.2
MC^2 STEM High School	9-11	A	158	72.2
Tremont Montessori School	PK-8	B	420	71.4
Douglas MacArthur	PK-5	B	179	70.9

Table 6. CMS: 40 *most stable* school buildings, October 2009–May 2011 (continued)

School building	Grade range	Rating	Oct. 2009 cohort	In same building, May 2011 (%)
Ginn Academy	9-12	C	254	69.3
Jane Addams Business Careers High School	9-12	C	344	68.6
Louisa May Alcott Elementary School	K-5	A	190	67.4
Benjamin Franklin	PK-8	B	588	67.3
Scranton School	K-8	D	406	65.3
Oliver H. Perry Elementary School	PK-8	D	343	64.7
William C. Bryant Elementary School	PK-8	A	379	64.6
Charles A. Mooney School	K-8	F	482	64.5
Valley View Elementary School	PK-5	B	139	63.3
Garfield Elementary School	K-8	B	356	63.2
Luis Munoz Marin School	K-8	F	651	61.9
Clara E. Westropp School	PK-8	C	475	61.7
Design Lab @ Jane Addams	9-11	B	169	60.9
Memorial School	PK-8	C	424	60.6
Artemus Ward	PK-8	D	451	60.3
Kenneth W. Clement	PK-5	C	168	60.1
James Ford Rhodes High School	9-12	C	978	60.0
Early Childhood Development	PK-3	B	97	59.8
Willow School	K-8	F	189	59.8
Adlai Stevenson School	K-8	D	210	59.5
Captain Arthur Roth	PK-8	D	226	59.3
Clark School	K-8	B	515	59.2
Sunbeam	PK-8	F	149	59.1

Source: CRP analysis of ODE enrollment records

Note: Table 6 is limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Table 7. CMS: 40 *least stable* school buildings, October 2009–May 2011

School building	Grade range	Rating	Oct. 2009 cohort	In same building, May 2011 (%)
Wilbur Wright School	PK-8	D	496	52.2
Almira	K-8	D	318	51.9
Patrick Henry School	PK-8	F	272	51.1
Robinson G. Jones Elementary School	PK-8	C	291	50.5
Miles School	PK-8	F	274	50.4
Louis Agassiz School	K-8	B	312	50.3
Collinwood High School	9-12	D	635	50.2
Charles W. Eliot School	PK-8	D	262	50.0
John Adams High School	9-12	F	857	49.7
H. Barbara Booker Elementary School	K-8	D	357	49.6
Case	PK-8	F	307	49.5
Michael R. White	K-8	F	297	49.5
Glenville High School	9-12	D	736	49.3
Marion C. Seltzer Elementary School	K-8	D	511	48.9
Robert H. Jamison School	PK-8	F	411	48.7
Harvey Rice Elementary School	K-8	F	288	48.6
Franklin D. Roosevelt	PK-8	F	406	48.3
John F. Kennedy High School	9-12	F	723	48.3
Lincoln-West High School	9-12	F	1,186	47.0
Charles Dickens School	K-8	F	259	46.7
East Technical High School	9-12	F	609	46.6
Watterson-Lake School	K-8	C	420	46.0
Iowa-Maple Elementary School	PK-8	F	244	45.1
John Marshall High School	9-12	C	1,252	45.0
George Washington Carver	PK-8	F	414	44.9
Andrew J. Rickoff	PK-8	D	470	44.7
Mound Elementary School	K-8	F	215	44.2
Giddings	PK-8	F	245	44.1
Newton D. Baker School	PK-8	C	352	43.8
Mary B. Martin School	K-8	F	304	42.4
Waverly Elementary School	K-8	D	405	41.5
Daniel E. Morgan School	PK-8	B	329	40.7
Union Elementary School	K-8	F	222	39.6
Anton Grdina	PK-8	D	419	39.6
Fullerton School	K-8	F	341	38.7
Wade Park	PK-8	D	347	38.0
Buckeye-Woodland School	K-8	F	219	33.8
East Clark	PK-8	F	394	28.4
Paul L. Dunbar Elementary School @ Brooklawn	PK-8	D	317	27.8
Genesis Academy	6-11	F	211	19.9

Source: CRP analysis of ODE enrollment records

Note: Table 7 is limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Building stability for charter schools

There was a wide range of two-year stability rates for public charter schools in the Cleveland Area. About one-quarter (21) of the largest charter schools had rates of 70% or more, while more than one-third (31) had rates of less than 50%. The least stable charter schools are primarily dropout recovery schools.

Table 8. Cleveland Area: Stability rates for charter schools, October 2009–May 2011

School (District location if other than CMS) *Dropout recovery school E-charter school in italics	Grade range	Rating	Econ. disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
Constellation Schools: Outreach Academy for Students with Disabilities (Parma)	K-12	A	19.0	29	93.1
Constellation Schools: Old Brooklyn Community Elementary	K-4	A	52.3	236	89.4
Constellation Schools: Westpark Community Elementary	K-4	A	55.9	236	86.4
Summit Academy Secondary - Akron (Akron)	8-12	C	72.6	34	85.3
Constellation Schools: Parma Community (Parma)	K-12	B	53.9	771	83.5
Washington Park Community	K-8	B	82.3	206	81.1
Menlo Park Academy	K-12	A	6.1	119	79.0
Constellation Schools: Lorain Community Elementary (Parma)	K-4	A	81.7	149	77.9
Constellation Schools: Westside Community School of the Arts	K-7	B	72.9	171	77.2
Constellation Schools: Puritas Community Elementary	K-4	A	79.8	158	76.6
Summit Academy Community School-Parma (Parma)	K-12	F	67.3	177	76.3
Hope Academy Brown St Campus (Akron)	K-8	C	95.0	226	73.5
Hope Academy Northwest Campus	K-12	C	94.8	400	73.0
Constellation Schools: Old Brooklyn Community Middle (Parma)	5-9	A+	57.2	153	72.5
Noble Academy-Cleveland (Euclid)	K-12	A	69.6	229	72.5
Hope Academy East Campus	K-8	D	>95.0	338	72.5
Constellation Schools: Puritas Community Middle (Parma)	5-9	C	75.2	108	72.2
The Intergenerational School	K-8	A+	64.0	198	71.2
Pinnacle Academy (Euclid)	K-8	C	92.3	669	70.7
Summit Academy Secondary - Lorain (Lorain)	8-12	C	65.4	57	70.2
Summit Academy Community School - Painesville (Painesville)	K-10	D	76.6	70	70.0
Hope Academy Cuyahoga Campus	K-8	D	92.5	393	69.2
Hope Academy Cathedral Campus	K-8	F	93.4	493	68.8
Hope Academy Chapelside Campus	K-8	C	>95.0	425	68.2
Hope Academy Northcoast	K-8	D	94.9	254	67.3
Cleveland Arts and Social Sciences Academy	K-12	F	58.5	196	66.8
Harvard Avenue Community School	K-8	D	90.6	639	64.9
Horizon Science Academy Cleveland	K-12	A	78.1	404	64.9
Citizens Academy	K-8	A	78.3	392	64.3
Constellation Schools: Elyria Community Elementary (Elyria)	K-9	B	60.3	271	63.8
Constellation Schools: Madison Community Elementary	K-12	C	95.0	276	63.4
Constellation Schools: Westpark Community Middle (Parma)	5-9	C	51.8	150	63.3
Bella Academy of Excellence	K-8	C	50.3	220	63.2
Hope Academy University (Akron)	K-8	D	94.7	369	62.6
Constellation Schools: Stockyard Community Elementary	K-9	C	60.2	282	61.0
Horizon Science Academy Cleveland Elementary School	K-5	C	90.9	125	60.8
Apex Academy (East Cleveland)	K-8	C	>95.0	627	60.8
Ohio Virtual Academy	K-12	B	59.0	1,814	60.6
Elite Academy of the Arts	K-8	F	>95.0	172	60.5
The Edge Academy (Akron)	K-6	C	20.6	254	59.1
Alternative Education Academy	K-12	D	49.5	727	58.9
Constellation Schools: Lorain Community Middle (Parma)	5-9	C	82.8	109	58.7
New Day Academy Boarding & Day School (Mentor)	K-12	B	>95.0	147	57.8

Table 8. Cleveland Area: Stability rates for charter schools, October 2009–May 2011 (continued)

School (District location if other than CMS) *Dropout recovery school E-charter school in italics	Grade range	Rating	Econ. disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
Horizon Science Academy Lorain	K-12	B	93.7	127	57.5
Academy of Arts and Sciences (Lorain)	K-12	C	>95.0	125	56.8
Lighthouse Community & Professional Development (Akron)	K-6	F	>95.0	94	56.4
Horizon Science Academy-Denison Middle School	K-12	C	90.2	324	55.9
Buckeye OnLine School for Success	K-12	C	43.8	206	55.3
Horizon Science Academy Denison Elementary School	K-5	F	88.6	107	55.1
The Arts Academy (Lorain)	K-12	D	<5.0	227	55.1
Village Preparatory School	K-5	NA	87.0	88	52.3
Romig Road Community School (Akron)	K-8	F	60.2	537	51.2
Cleveland Academy for Scholarship Technology and Leadership*	9-12	D	77.1	209	50.7
Ohio Connections Academy, Inc.	K-12	B	59.1	418	50.7
Phoenix Village Academy Primary 2	K-12	B	93.0	58	50.0
Schnee Learning Center (Cuyahoga Falls)*	9-12	B	31.8	108	48.1
Summit Academy Middle School-Akron (Akron)	5-10	F	72.7	44	47.7
Virtual Community School Of Ohio	K-12	C	79.8	126	47.6
Summit Academy Middle School - Lorain (Lorain)	5-10	F	84.6	78	47.4
Mansfield Preparatory Academy (Lorain)	K-12	B	94.9	166	47.0
Summit Academy-Lorain (Lorain)	K-10	F	87.3	113	46.9
Electronic Classroom Of Tomorrow	K-12	C	75.5	1,931	46.9
Treca Digital Academy *	K-12	D	63.7	265	46.8
Virtual Schoolhouse, Inc.	K-12	F	88.1	298	45.6
Lakewood City Academy (Lakewood)*	K-12	B	64.7	147	44.2
Akron Digital Academy *	K-12	D	91.2	883	43.4
Horizon Science Academy-Cleveland Middle School	K-12	A	87.3	144	42.4
Cleveland Lighthouse Community School	K-12	D	>95.0	163	41.7
Marcus Garvey Academy	K-9	F	>95.0	181	40.3
Summit Academy Community School for Alterative Learners of Akron (Akron)	K-10	C	80.4	110	40.0
Cleveland Entrepreneurship Preparatory School	6-8	A	83.4	232	39.2
Villaview Lighthouse Community School	K-9	F	>95.0	94	37.2
Arts and Science Preparatory Academy	K-12	F	91.7	233	36.9
The Arts Academy West	K-12	NA	31.7	33	36.4
Phoenix Village Academy: Secondary I	K-12	NA	72.4	75	36.0
Hope Academy Lincoln Park	K-8	D	91.5	163	30.1
Lion of Judah Academy	K-8	D	>95.0	126	28.6
Life Skills Center Of Summit County (Akron)*	9-12	C	93.5	156	11.5
Lorain High School Digital	9-12	D	58.6	104	11.5
Life Skills Center Of Cleveland*	9-12	F	94.4	293	9.2
Life Skills Of Northeast Ohio*	9-12	F	81.4	270	8.5
Life Skills Center Of Akron (Akron)*	9-12	D	93.7	157	8.3
Life Skills Center of North Akron (Akron)*	9-12	F	79.6	156	7.7
Life Skills Center Of Lake Erie*	9-12	C	92.4	344	7.0
Promise Academy*	9-12	C	92.6	489	6.5
Life Skills Center of Elyria (Elyria)*	9-12	D	85.8	179	6.1

Source: CRP analysis of ODE enrollment records

Note: Table 8 is limited to charter schools with average daily enrollment of at least 50 students in school year 2010-2011, and in operation during both school years 2009-2010 and 2010-2011.

3.3 Churn rate

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

District churn rate for Cleveland Area districts

There were more than 20,000 admissions to and withdrawals from schools in the 30 Cleveland Area Ring 1 districts during the 2010-2011 school year. For the majority of these districts, churn in grades K-8 resulted in a net gain of students (more admissions than withdrawals), while the churn in grades 9-12 produced a net loss of students (more withdrawals than admissions) for nearly all districts.

Cleveland Metropolitan Schools

- CMS had a churn rate for grades 9-12 (30.8%) that was nearly twice the rate for grades K-8 (16.2%) (Table 8).

- Compared to the 15 districts designated as Major Urban by ODE, CMS had the 8th highest grades K-8 churn rate and the 2nd highest grades 9-12 churn rate (Table i). Akron City Schools had the lowest grades K-8 churn rate (12.3%), while East Cleveland City Schools had the greatest churn, with a rate of 23.9% for grades K-8. Cincinnati City Schools had the lowest churn rate for grades 9-12 (15.2%), and Toledo City School had the highest grades 9-12 rate (31.1%).

Other Cleveland Area Districts

- East Cleveland and Warrensville Heights had churn rates of more than 20% for both grades K-8 and grades 9-12. Strongsville, Westlake, Solon, Brecksville-Broadview Heights, Rocky River, Independence, Bay Village, and Cuyahoga Heights had churn rates of less than 5% for both grades K-8 and grades 9-12.

- In the Cleveland Area, about half of all districts (40 of 73) have a higher churn rate for grades K–8 than for grades 9–12 (see Maps 5 and 6).

Table 9. Cleveland Area Ring 1 Districts: One-year churn rates, grades K-8 and 9-12, school year 2010–2011

District	Grades K–8				Grades 9–12				K-12 churn rate (%)
	Oct. 2010 enroll.	Admits	With-drawals	Churn rate (%)	Oct. 2010 enroll.	Admits	With-drawals	Churn rate (%)	
Cuyahoga Hts.	578	7	1	1.4	315	3	1	1.3	1.3
Independence	666	10	10	3.0	433	1	5	1.4	2.4
Bay Village	1,734	23	15	2.2	793	6	18	3.0	2.5
Brecksville-Broadview Hts.	2,728	57	36	3.4	1,603	15	26	2.6	3.1
Rocky River	1,730	26	32	3.4	893	10	23	3.7	3.5
Solon	3,261	77	52	4.0	1,812	19	34	2.9	3.6
Strongsville	4,198	115	85	4.8	2,473	30	75	4.2	4.6
North Royalton	2,905	77	69	5.0	1,656	21	47	4.1	4.7
Westlake	2,571	76	43	4.6	1,362	19	50	5.1	4.8
Fairview Park	1,118	33	26	5.3	591	12	16	4.7	5.1
Olmsted Falls	2,541	78	61	5.5	1,178	30	38	5.8	5.6
Mayfield	2,412	77	67	6.0	2,061	55	120	8.5	7.1
Beachwood	924	52	42	10.2	686	13	16	4.2	7.6
North Olmsted	2,672	112	113	8.4	1,448	36	58	6.5	7.7
Berea	4,508	179	156	7.4	2,415	88	131	9.1	8.0
Brooklyn	937	32	41	7.8	503	17	31	9.5	8.4
South Euclid-Lyndhurst	2,638	120	128	9.4	1,708	52	109	9.4	9.4
Shaker Hts.	3,681	165	162	8.9	1,742	74	114	10.8	9.5

Less churn → *More churn*

Table 9. Cleveland Area Ring 1 Districts: One-year churn rates, grades K-8 and 9-12, school year 2010–2011 (cont'd)

District	Grades K–8					Grades 9–12			K-12 churn rate (%)
	Oct. 2010 enroll.	Admits	With-drawals	Churn rate (%)	Oct. 2010 enroll.	Admits	With-drawals	Churn rate (%)	
Parma	7,392	375	409	10.6	4,283	212	325	12.5	11.3
Lakewood	3,848	241	254	12.9	1,886	104	210	16.6	14.1
Bedford	2,390	172	202	15.6	1,220	85	119	16.7	16.0
Euclid	3,491	302	287	16.9	2,197	141	219	16.4	16.7
Garfield Hts.	2,521	257	193	17.9	1,383	84	135	15.8	17.1
Richmond Hts.	617	42	67	17.7	309	15	43	18.8	18.0
Cleveland Hts.-University Hts.	3,931	329	294	15.8	1,944	194	248	22.7	18.1
Maple Hts.	2,618	250	249	19.1	1,231	112	180	23.7	20.6
Cleveland	29,529	2,386	2,389	16.2	13,906	1,453	2,835	30.8	20.9
Orange	1,421	91	61	10.7	797	162	150	39.1	20.9
East Cleveland	1,917	237	222	23.9	1,316	94	208	22.9	23.5
Warrensville Hts.	1,356	132	177	22.8	665	57	122	26.9	24.1
Total Ring 1	*102,833*	*6,130*	*5,943*		*54,809*	*3,214*	*5,706*		

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2010–2011.

Maps 5 and 6. Cleveland Area: One-year district churn rate for grades K–8 and 9–12, school year 2010–2011

Map 5 (Churn rate, K-8):

Fairport Harbor 14.4
Painesville 20.8
Mentor 5.5
Riverside 5.7
Willoughby-Eastlake 6.8
Euclid 16.9
Wickliffe 7.0
Kirtland 2.3
Chardon 4.6
Richmond Hts 17.7
Mayfield 6.0
East Cleveland 23.9
S. Euclid-Lyndhurst 9.4
Sheffield-Sheffield Lake 7.8
Avon Lake 4.1
Bay Village 2.2
Rocky River 3.4
Lakewood City 12.9
Clev Hts-Univ Hts 15.8
Cleveland 16.2
Shaker Hts 8.9
Beachwood 10.2
West Geauga 3.8
Newbury 11.8
Lorain 19.8
Avon 5.7
Westlake 4.6
Fairview Park 5.3
Brooklyn 7.8
Orange 10.7
Berkshire 9.1
Clearview 9.9
North Olmsted 8.4
Garfield Hts 17.9
Warrensville Hts 22.8
Chagrin Falls 2.5
Amherst 4.4
Elyria 11.8
North Ridgeville 5.8
Berea 7.4
Parma 10.6
Cuyahoga Hts 1.4
Maple Hts 19.1
Solon 4.0
Kenston 3.0
Olmsted Falls 5.5
Independence 3.0
Bedford 15.6
Oberlin 8.5
Columbia 5.4
Strongsville 4.8
North Royalton 5.0
Brecksville-Broadview Hts 3.4
Nordonia Hills 4.8
Twinsburg 5.1
Aurora 4.4
Crestwood 6.3
Midview 7.3
Keystone 8.1
Brunswick 5.1
Revere 3.2
Woodridge 12.5
Hudson 2.7
Streetsboro 9.4
Buckeye 6.3
Highland 4.2
Stow-Munroe Falls 6.2
Kent 8.7
Medina 5.4
Copley-Fairlawn 6.2
Akron 12.3
Cuyahoga Falls 6.5
Tallmadge 6.9

Churn rate, K-8
- Less than 5%
- 5.0 - 9.9
- 10.0 - 14.9
- 15.0 - 19.9
- 20% or more

Map 6 (Churn rate, 9-12):

Fairport Harbor 10.0
Painesville 43.6
Mentor 5.9
Riverside 8.7
Willoughby-Eastlake 6.1
Euclid 16.4
Wickliffe 7.1
Kirtland 1.5
Chardon 3.8
Richmond Hts 18.8
Mayfield 8.5
East Cleveland 22.9
S. Euclid-Lyndhurst 9.4
Sheffield-Sheffield Lake 8.1
Avon Lake 4.3
Bay Village 3.0
Rocky River 3.7
Lakewood City 16.6
Clev Hts-Univ Hts 22.7
Cleveland 30.8
Shaker Hts 10.8
Beachwood 4.2
West Geauga 2.6
Newbury 6.3
Lorain 25.6
Avon 3.3
Westlake 5.1
Fairview Park 4.7
Brooklyn 9.5
Orange 39.1
Berkshire 4.3
Clearview 12.2
North Olmsted 6.5
Garfield Hts 15.8
Warrensville Hts 26.9
Chagrin Falls 2.5
Amherst 5.3
Elyria 16.5
North Ridgeville 8.5
Berea 9.1
Parma 12.5
Cuyahoga Hts 1.4
Maple Hts 23.7
Solon 2.9
Kenston 2.4
Olmsted Falls 5.8
Independence 1.3
Bedford 16.7
Oberlin 10.4
Columbia 8.3
Strongsville 4.2
North Royalton 4.1
Brecksville-Broadview Hts 2.6
Nordonia Hills 5.5
Twinsburg 6.9
Aurora 3.1
Crestwood 6.7
Midview 7.3
Keystone 6.3
Brunswick 6.9
Revere 3.2
Woodridge 11.2
Hudson 2.8
Streetsboro 10.4
Buckeye 5.5
Highland 3.4
Stow-Munroe Falls 5.2
Kent 9.1
Medina 7.1
Copley-Fairlawn 5.5
Akron 18.2
Cuyahoga Falls 9.7
Tallmadge 5.4

Churn rate, 9-12
- Less than 5%
- 5.0 - 9.9%
- 10.0 - 14.9%
- 15.0 - 19.9%
- 20.0 - 29.9%
- 30% or greater

Source: CRP analysis of ODE enrollment records

Building churn rate for Cleveland Metropolitan Schools

Nearly all the CMS schools with low churn rates are alternative schools (Table 10). CMS buildings with the highest churn rates have school year admissions and withdrawals equivalent to more than half of total enrollment (Table 11).

Table 10. CMS: 40 *lowest* building churn rates, school year 2010–2011

School building	Grade range	Rating	Oct. 2010 enrollment	Churn rate (%)
John Hay School of Science & Medicine	9-12	A	356	3.9
Cleveland School Of The Arts High School	7-12	B	653	4.1
Warner Girls Leadership Academy	PK-5	C	284	4.2
Early Childhood Development	PK-3	B	110	5.5
Cleveland School of Arts (Dike Campus)	PK-6	B	495	6.5
Buhrer	PK-8	C	315	7.0
Tremont Montessori School	PK-8	B	451	8.0
Whitney Young School	2-12	A+	419	8.1
William C. Bryant Elementary School	PK-8	A	343	8.5
Douglas MacArthur	PK-5	B	210	8.6
Health Careers Center High School	9-12	C	285	9.1
John Hay Early College High School	9-12	A	241	9.5
John Hay School of Architecture & Design	9-12	A	285	12.6
MC^2 STEM High School	9-11	A	223	13.0
Max S. Hayes High School	9-12	C	538	13.2
Garfield Elementary School	K-8	B	430	14.4
Riverside School	K-8	B	523	14.5
Success Tech Academy School	9-12	C	238	15.1
Jane Addams Business Careers High School	9-12	C	413	16.5
Law & Municipal Careers @ MLK	9-12	F	290	17.2
Valley View Elementary School	PK-5	B	173	19.1
George Washington Carver	PK-8	F	356	20.2
Kenneth W. Clement	PK-5	C	177	20.9
Ginn Academy	9-12	C	265	21.1
Garrett Morgan School Of Science School	9-12	B	249	21.3
Design Lab @ Jane Addams	9-11	B	243	23.0
Louisa May Alcott Elementary School	K-5	A	235	25.1
Sunbeam	PK-8	F	207	25.6
Benjamin Franklin	PK-8	B	651	26.4
Denison	K-8	B	639	26.9
Captain Arthur Roth	PK-8	D	277	27.1
Campus International School	K-2	NA	105	27.6
Oliver H. Perry Elementary School	PK-8	D	384	28.6
Adlai Stevenson School	K-8	D	257	29.2
Clark School	K-8	B	558	31.5
Franklin D. Roosevelt	PK-8	F	566	32.0
Willow School	K-8	F	215	33.0
Memorial School	PK-8	C	490	33.5
New Technology West	9-10	C	130	33.8
Washington Park	9-12	D	141	34.0

Source: CRP analysis of ODE enrollment records

Note: Tables 10 and 11 are limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Table 11. CMS: 40 _highest_ building churn rates, school year 2010–2011

School building	Grade range	Rating	Oct. 2010 enrollment	Churn rate (%)
Miles School	PK-8	F	358	43.6
Robinson G. Jones Elementary School	PK-8	C	315	44.1
Charles Dickens School	K-8	F	450	44.9
Emile B. Desauze Elementary School	K-8	F	260	45.0
Miles Park School	K-8	F	547	45.7
McKinley School	K-8	D	315	45.7
Wilbur Wright School	PK-8	D	535	46.9
Case	PK-8	F	397	47.1
Woodland Hills School	K-8	F	320	47.2
Patrick Henry School	PK-8	F	326	48.2
H. Barbara Booker Elementary School	K-8	D	397	49.1
Charles W. Eliot School	PK-8	D	438	49.8
Euclid Park Elementary School	K-8	F	316	50.0
Andrew J. Rickoff	PK-8	D	480	50.6
Marion C. Seltzer Elementary School	K-8	D	514	51.2
John Marshall High School	9-12	C	1,323	51.3
Glenville High School	9-12	D	990	52.4
Fullerton School	K-8	F	403	52.6
Paul Revere Elementary School	PK-8	D	435	53.1
Waverly Elementary School	K-8	D	410	53.9
John Adams High School	9-12	F	1,115	55.4
Charles A. Mooney School	K-8	F	670	56.9
Watterson-Lake School	K-8	C	379	57.8
Nathan Hale School	K-8	F	383	58.5
Almira	K-8	D	379	58.8
Collinwood High School	9-12	D	742	59.2
Lincoln-West High School	9-12	F	1,325	59.5
John F. Kennedy High School	9-12	F	1,046	59.7
Anton Grdina	PK-8	D	347	61.1
Paul L. Dunbar Elementary School @ Brooklawn	PK-8	D	193	61.7
Walton School	K-8	C	527	62.0
Thomas Jefferson School	K-12	NA	172	62.8
Giddings	PK-8	F	260	64.6
New Technology HS @East Tech	9-10	C	99	64.6
Union Elementary School	K-8	F	231	64.9
Mound Elementary School	K-8	F	257	67.7
Genesis Academy	6-11	F	211	70.1
East Technical High School	9-12	F	863	72.2
Carl F. Shuler	9	NA	374	75.1
Buckeye-Woodland School	K-8	F	294	84.7

Building churn rate for physical charter schools

Physical charter schools in the Cleveland Area (Table 12) range from extremely high—with some schools turning over twice their total enrollment during the school year, to those with rates below 10%. The charter schools with the greatest churn are primarily dropout recovery schools.

Table 12. Cleveland Area: Churn rates for physical charter schools, school year 2010–2011

School (District location if other than CMS) *Dropout recovery school	Grade range	Rating	Econ. disadv. (%)	Oct. 2010 enrollment	Churn rate
Constellation Schools: Parma Community (Parma)	K-12	B	53.9	887	3.0
Constellation Schools: Old Brooklyn Community Middle (Parma)	5-9	A+	57.2	159	3.1
Constellation Schools: Elyria Community Elementary (Elyria)	K-9	B	60.3	264	3.4
Constellation Schools: Westpark Community Elementary	K-4	A	55.9	291	3.8
Citizens Academy	K-8	A	78.3	409	4.2
Constellation Schools: Old Brooklyn Community Elementary	K-4	A	52.3	290	4.8
Washington Park Community	K-8	B	82.3	227	5.7
Frederick Douglass Reclamation Academy*	8-12	NA	84.2	84	6.0
Hope Academy Northwest Campus	K-12	C	94.8	427	6.3
Constellation Schools: Westpark Community Middle (Parma)	5-9	C	51.8	183	6.6
Constellation Schools: Westside Community School of the Arts	K-7	B	72.9	220	6.8
Noble Academy-Cleveland (Euclid)	K-12	A	69.6	229	8.3
Constellation Schools: Lorain Community Elementary (Parma)	K-4	A	81.7	179	8.4
Constellation Schools: Puritas Community Elementary	K-4	A	79.8	200	8.5
The Edge Academy (Akron)	K-6	C	20.6	255	8.6
Academy of Arts and Sciences (Lorain)	K-12	C	>95.0	145	9.0
Constellation Schools: Outreach Academy for Students with Disabilities (Parma)	K-12	A	19.0	42	9.5
Phoenix Village Academy Primary 2	K-12	B	93.0	61	9.8
The Intergenerational School	K-8	A+	64.0	221	10.0
Village Preparatory School	K-5	NA	87.0	178	10.1
Constellation Schools: Stockyard Community Elementary	K-9	C	60.2	285	10.5
Horizon Science Academy Lorain	K-12	B	93.7	188	10.6
Horizon Science Academy Cleveland	K-12	A	78.1	478	10.7
Constellation Schools: Puritas Community Middle (Parma)	5-9	C	75.2	139	10.8
Constellation Schools: Madison Community Elementary	K-12	C	95.0	283	11.0
Summit Academy Middle School - Lorain (Lorain)	5-10	F	84.6	82	11.0
Menlo Park Academy	K-12	A	6.1	227	11.0
Pinnacle Academy (Euclid)	K-8	C	92.3	714	11.6
Horizon Science Academy Cleveland Elementary School	K-5	C	90.9	148	12.2
Harvard Avenue Community School	K-8	D	90.6	645	12.2
Constellation Schools: Stockyard Community Middle (Parma)	K-8	D	81.2	55	12.7
Horizon Science Academy-Denison Middle School	K-12	C	90.2	319	13.5
Hope Academy Northcoast	K-8	D	94.9	274	13.5
New Day Academy Boarding & Day School (Mentor)	K-12	B	96.5	205	13.7
Falcon Academy of Creative Arts (Field)	3-7	A	19.0	145	14.5
Horizon Science Academy Denison Elementary School	K-5	F	88.6	171	17.0
Mansfield Preparatory Academy (Lorain)	K-12	B	94.9	152	17.1
Summit Academy Secondary - Akron (Akron)	8-12	C	72.6	58	17.2
Hope Academy University (Akron)	K-8	D	94.7	379	17.4
Akros Middle School (Akron)	6-8	B	36.1	86	17.4
Summit Academy Community School for Alternative Learners of Akron (Akron)	K-10	C	80.4	79	17.7
Apex Academy (East Cleveland)	K-8	C	>95.0	646	17.8
Bella Academy of Excellence	K-8	C	50.3	409	17.8
Romig Road Community School (Akron)	K-8	F	60.2	495	18.8
Summit Academy Middle School-Akron (Akron)	5-10	F	72.7	89	19.1

Table 12. Cleveland Area: Churn rates for physical charter schools, school year 2010–2011 (continued)

School (District location if other than CMS) *Dropout recovery school	Grade range	Rating	Econ. disadv. (%)	Oct. 2010 enrollment	Churn rate
Cleveland Entrepreneurship Preparatory School	6-8	A	83.4	346	19.4
Hope Academy Cathedral Campus	K-8	F	93.4	521	19.6
Phoenix Village Academy: Secondary I	K-12	NA	72.4	85	20.0
Constellation Schools: Lorain Community Middle (Parma)	5-9	C	82.8	137	21.2
Hope Academy Cuyahoga Campus	K-8	D	92.5	443	21.2
Hope Academy Brown St. Campus (Akron)	K-8	C	95.0	269	22.3
Elite Academy of the Arts	K-8	F	>95.0	228	22.4
Cleveland Arts and Social Sciences Academy	K-12	F	58.5	363	22.6
Hope Academy East Campus	K-8	D	>95.0	401	23.4
Summit Academy Community School - Painesville (Painesville)	K-10	D	76.6	76	23.7
Horizon Science Academy-Cleveland Middle School	K-12	A	87.3	166	24.7
Horizon Science Academy Youngstown	K-12	C	>95.0	200	26.5
Hope Academy Chapelside Campus	K-8	C	>95.0	446	26.7
Summit Academy Secondary - Lorain (Lorain)	8-12	C	65.4	69	29.0
Lighthouse Community & Professional Development (Akron)	K-6	F	>95.0	89	29.2
Arts and Science Preparatory Academy	K-12	F	91.7	203	31.0
Lion of Judah Academy	K-8	D	>95.0	135	31.1
The Arts Academy (Lorain)	K-12	D	0.0	248	33.5
Marcus Garvey Academy	K-9	F	>95.0	189	34.4
Summit Academy-Lorain (Lorain)	K-10	F	87.3	106	34.9
Northeast Ohio College Preparatory School	K-8	B	>95.0	227	35.2
Cleveland College Preparatory School	K-8	C	88.6	248	37.9
Cleveland Lighthouse Community School	K-12	D	>95.0	199	41.7
Hope Academy Lincoln Park	K-8	D	91.5	218	41.7
Villaview Lighthouse Community School	K-9	F	>95.0	102	46.1
Langston Hughes High School (East Cleveland)*	8-12	F	54.0	125	46.4
Cleveland Academy for Scholarship Technology and Leadership*	9-12	D	77.1	328	50.0
Lakewood City Academy (Lakewood)*	K-12	B	64.7	177	54.2
Horizon Science Academy Toledo Downtown	K-12	D	92.2	114	59.6
Virtual Schoolhouse, Inc.	K-12	F	88.1	307	71.0
Schnee Learning Center (Cuyahoga Falls)*	9-12	B	31.8	140	82.1
The Arts Academy West	K-12	NA	31.7	54	103.7
Summit Academy Community School-Parma (Parma)	K-12	F	67.3	183	125.7
George V. Voinovich Reclamation Academy*	8-12	NA	62.8	69	129.0
Life Skills Center Of Summit County (Akron)*	9-12	C	93.5	142	157.7
Life Skills Center of North Akron (Akron)*	9-12	F	79.6	141	168.1
Life Skills Center Of Akron (Akron)*	9-12	D	93.7	213	177.5
Promise Academy*	9-12	C	92.6	649	186.1
Life Skills Center Of Lake Erie*	9-12	C	92.4	272	194.1
Life Skills Center Of Cleveland*	9-12	F	94.4	239	200.8
Life Skills Center of Elyria (Elyria)*	9-12	D	85.8	170	204.1
Life Skills Of Northeast Ohio*	9-12	F	81.4	303	205.3

Source: CRP analysis of ODE enrollment records

Note: Table 12 is limited to charter schools with average daily enrollment of at least 50 students in school year 2010-2011.

4.0 Mobility patterns

4.1   Section overview and key concepts

This section of the report examines the patterns of student movement between school districts and buildings and between public districts and charter schools, as well as the characteristics of origin and destination schools. The analysis of mobility patterns includes: (1) district and building mobility patterns, (2) report card ratings of origin and destination schools, and (3) inter-district open enrollment analysis.

This report provides an overview of mobility patterns among Cleveland Area schools. Additional mobility pattern data for districts, buildings, and charter schools can be found in the Appendix and online spreadsheets www.researchpartners.org.

Mobility patterns: districts and buildings that exchange students

How many unique students did pairs of buildings or districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts and buildings?

- **District mobility patterns:** The number of unique students enrolled in two school districts, or a district and a charter school, at some point over two school years (2009-2010 and 2010-2011).
- **Building mobility patterns:** The number of unique students enrolled in two school buildings at some point over two school years (2009-2010 and 2010-2011), including buildings within the same district and buildings in different districts

Data notes

- The mobility patterns analysis includes all combinations of: public school districts and buildings, physical charter schools, and e-charter schools. Vocational schools are excluded. A small percentage of results from dual enrollment; however, most involve non-overlapping enrollment periods.
- A student is counted only once, even if they move between a pair of schools more than once.

Origin and destination ratings: report card rating of schools that exchange students

What is the performance rating of the destination school of mobile students, compared to that of the school of origin?

- **Origin and destination performance ratings:** The school year 2010-2011 state report card rating of the origin and destination schools for the most recent move of students who changed schools during a two school year period (2009-2010 and 2010-2011).

Data notes

- Statewide, 20% of students who withdraw from an Ohio public school have no enrollment destination information in EMIS the following October.

Inter-district open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

- **Open enrollment, incoming:** Number and percent of students attending a school in a district through open enrollment policy.
- **Open enrollment, outgoing:** Number and percent of public school students residing in a district, but attending a different district through open enrollment policy.

Data notes

- Open enrollment is the most common reason, but not the only reason, that a student may reside in one district, but attend another.

4.2   District mobility patterns

How many unique students did pairs of districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts?

District mobility patterns between Cleveland Metropolitan Schools and other districts

Over two school years, the 73 public districts in the Cleveland Area exchanged 27,076 students. The largest numbers of exchanges were between districts in close proximity to each other, but CMS also exchanged students with other Major Urban districts across the state. Six districts exchanged at least 500 students with CMS over a two year period, led by East Cleveland (1,083), Euclid (903), Parma (773), and Cleveland Heights-University Heights (764) (Table 13; Maps 7 and 8). Nineteen Ohio districts exchanged at least 100 students with CMS, including Columbus (122).

Table 13. Top 30 districts that exchanged students with CMS, October 2009–May 2011

District	Location	District rating	Econ. Disadv. (%)	Total students exchanged	Grades K–7		Grades 8–11	
					To CMS	From CMS	To CMS	From CMS
East Cleveland	Ring 1	D	88.5	1,083	279	328	264	212
Euclid	Ring 1	C	66.0	903	206	355	150	192
Parma	Ring 1	A	42.6	773	199	213	203	158
Cleveland Hts.-University Hts.	Ring 1	C	61.3	764	134	296	139	195
Maple Hts.	Ring 1	B	70.8	627	136	241	115	135
Garfield Hts.	Ring 1	C	64.7	503	96	213	84	110
Lakewood	Ring 1	A	49.3	493	169	157	71	96
Warrensville Hts.	Ring 1	D	60.2	414	118	143	84	69
Bedford	Ring 1	C	60.6	317	72	123	42	80
Shaker Hts.	Ring 1	B	31.6	309	70	137	29	73
Berea	Ring 1	A	37.5	275	63	88	44	80
Akron	Ring 2	C	84.7	219	71	78	31	39
Lorain	Ring 2	C	84.5	213	68	86	31	28
Orange	Ring 1	A+	13.8	202	25	30	89	58
South Euclid-Lyndhurst	Ring 1	C	48.5	195	48	62	40	45
Columbus	Other Ohio	C	81.9	122	47	38	16	21
North Olmsted	Ring 1	A	38.6	111	30	51	17	13
Richmond Hts.	Ring 1	C	53.0	100	14	46	19	21
Elyria	Ring 2	B	66.4	100	36	31	15	18
Brooklyn	Ring 1	B	48.6	97	24	41	16	16
Willoughby-Eastlake	Ring 2	A	33.3	84	13	41	12	18
Painesville City	Ring 2	C	75.9	75	31	23	12	9
Youngstown	Other Ohio	D	91.9	70	18	30	14	8
Brunswick	Ring 2	A	23.5	67	13	28	12	14
Strongsville	Ring 1	A	15.3	62	13	23	15	11
Mayfield	Ring 1	A+	19.8	62	14	5	20	23
Medina	Ring 2	A	15.7	56	21	28	2	5
North Royalton	Ring 1	A	15.7	51	17	16	9	9
Olmsted Falls	Ring 1	A	17.1	50	9	19	7	15
Westlake	Ring 1	A	14.6	48	16	14	12	6
Total top 30 districts				*8,445*	*2,070*	*2,984*	*1,614*	*1,777*

Source: CRP analysis of ODE enrollment records

Notes: Grade is the student's highest grade level during school year 2009–10. A student may have been enrolled in another district, charter school, or outside the Ohio public system between the periods of enrollment in the districts paired above. For example, a student who moves from CMS to Euclid to Parma schools would be included in two pairs: CMS/Euclid and CMS/Parma. Totals include only those students for whom grade level is available for school year 2009–10.

Maps 7 and 8. Students moving between CMS and another district in the Cleveland Area, October 2009–May 2011

Into CMS

Fairport Harbor
Painesville 43
Mentor 14 Riverside 7
Willoughby-Eastlake 25
Euclid 356   Wickliffe 11   Kirtland   Chardon 6
Richmond Hts 33   Mayfield 34
East Cleveland 543   S. Euclid-Lyndhurst 88
Sheffield-   Avon Lake   Bay Village 3   Rocky River   Lakewood   Clev Hts-Univ Hts 273   West 2
Sheffield Lake   3   City 240   Cleveland   Beachwood   Geauga   Newbury
Lorain 99   14   Avon 12   Westlake 28   Fairview Park 23   Shaker Hts 4   Orange 114   Berkshire
Clearview 2   North 47   Brooklyn   40   Warrensville Hts 99   Chagrin Falls 1
Amherst 9   Olmsted   Garfield Hts 202
Elyria 51   North Ridgeville 13   Berea 107   Parma 402   Cuyahoga Hts 180   Maple Hts 251 114   Kenston 5
Olmsted Falls 16   10   Bedford   Solon 18
Independence
Oberlin 9   Columbia   28   North   Brecksville-   Twinsburg   Aurora 5   Crestwood
Strongsville   Royalton 26   Broadview Hts 17   Nordonia Hills 11   21
Midview 9
Keystone 2   Brunswick 25   Revere   Hudson 1   Streetsboro 7
Woodridge 3
10   1   Stow-Munroe Falls
Buckeye   Highland 2   5   Kent 11
Cuyahoga Falls 4
Medina 23   Copley-   Akron 102   Tallmadge
Fairlawn 4

Out of CMS

Fairport Harbor
Painesville 32
Mentor 17   Riverside 8
Willoughby-Eastlake 59
Euclid 547   Wickliffe 13   Kirtland 3   Chardon 5
Richmond Hts 67   Mayfield 28
East Cleveland 540   S. Euclid-Lyndhurst 107
Sheffield-   Avon Lake   Bay Village 2   Rocky River   Lakewood   Clev Hts-Univ Hts 491   West 4
Sheffield Lake   4   City 253   Cleveland   Beachwood 9   Geauga   Newbury 2
Lorain 114   18   Avon 11   Westlake 20   Fairview Park 22   Shaker Hts 210   Orange 88   Berkshire
Clearview 6   North 64   Brooklyn   57   Warrensville Hts 212   Chagrin Falls 1
Amherst 2   Olmsted   Garfield Hts 323
Elyria 49   North Ridgeville   Berea 168   Parma 371   Cuyahoga Hts 376   Maple Hts 203   Kenston 3
Olmsted Falls   2   Bedford   Solon 17
Independence
Oberlin 3   Columbia   34   North   Brecksville-   Twinsburg   Aurora 5   Crestwood 2
Strongsville   Royalton 25   Broadview Hts 25   Nordonia Hills 14   24
Midview 16
Keystone 7   Brunswick 42   Revere   Hudson 4   Streetsboro 12
Woodridge 7
9   3   Stow-Munroe Falls
Buckeye   Highland 1   2   Kent 17
Cuyahoga Falls 4
Medina 33   Copley-   Akron 117   Tallmadge
Fairlawn 9

Source: CRP analysis of ODE enrollment records

District mobility patterns among Cleveland Area districts

Over two years, there were 6,024 student exchanges among the 25 largest Cleveland Area districts (excluding CMS) (Table 14). The Mayfield, Cleveland Heights-University Heights, Riverside Lake, and Stow-Munroe Falls districts had the most inter-district exchanges. Districts that exchanged more than 200 students were Elyria and Lorain, Mayfield and South Euclid-Lyndhurst, Mentor and Willoughby-Eastlake, Akron and Cuyahoga Falls, and Euclid and Cleveland Heights-University Heights..

Table 14. Cleveland Area largest 25 districts (excluding CMS): Students exchanged between pairs of districts, October 2009–May 2011

ORIGIN DISTRICT \ DESTINATION DISTRICT	Akron	Amherst	Berea	Brecksville-Broadvw Hts.	Brunswick	Cleveland Hts-Univ. Hts.	Cuyahoga Falls	Elyria	Euclid	Hudson	Lakewood	Lorain	Mayfield	Medina	Mentor	North Royalton	Parma	Riverside-Lake	Shaker Hts.	Solon	South Euclid-Lyndhurst	Stow-Munroe Falls	Strongsville	Twinsburg	Willoughby-Eastlake
Akron		1	10	1	4	23	148	7	12	9	10	2	-	17	6	-	8	-	6	4	3	57	-	15	3
Amherst	3		-	1	2	-	-	21	-	-	1	44	-	1	1	-	1	-	-	-	-	1	1	-	-
Berea	16	4		-	21	11	2	3	12	1	19	9	1	12	3	24	72	-	3	-	7	2	29	7	6
Brecksville-Broadview Hts.	1	-	6		5	-	3	1	1	2	4	-	-	1	-	12	12	-	2	3	2	3	4	-	-
Brunswick	1	3	20	1		-	-	6	1	2	16	7	1	36	1	6	22	-	-	1	4	1	19	2	1
Cleveland Hts.-Univ. Hts.	25	1	12	-	2		1	6	104	-	23	4	38	2	3	2	32	11	69	4	96	1	5	8	10
Cuyahoga Falls	102	-	2	-	7	1		-	1	15	2	-	-	2	2	3	2	-	-	-	-	56	1	5	-
Elyria	8	30	11	-	11	4	5		-	-	17	234	1	13	-	1	18	-	-	-	-	-	5	-	-
Euclid	8	-	15	2	3	99	1	8		-	11	12	42	1	94	2	21	10	29	3	81	-	3	5	167
Hudson	10	-	3	-	-	-	11	-	-		-	-	-	1	-	-	1	-	1	2	1	16	-	1	1
Lakewood	1	1	30	3	8	8	3	8	9	-		9	1	6	6	6	69	-	7	2	3	1	15	1	4
Lorain	12	70	4	2	3	6	-	233	5	-	10		4	6	-	5	14	-	1	-	2	-	1	-	1
Mayfield	5	-	-	3	1	21	1	1	26	-	6	-		1	2	1	2	1	12	19	48	1	-	10	17
Medina	18	1	15	-	51	2	4	4	-	1	2	4	-		2	2	7	-	5	-	-	1	7	4	-
Mentor	-	-	-	-	-	4	-	3	49	-	9	-	10	-		-	3	65	1	8	13	-	2	1	145
North Royalton	3	1	11	7	33	2	1	-	-	-	10	2	2	8	3		28	-	-	-	-	3	16	-	2
Parma	16	6	91	32	53	29	-	22	9	-	44	8	11	16	3	84		1	8	9	9	1	29	1	8
Riverside	-	-	-	-	1	-	3	1	4	-	2	-	2	2	45	2	2		-	1	1	-	-	-	38
Shaker Hts.	3	-	2	7	6	114	-	2	30	1	4	-	44	3	1	1	11	4		11	15	-	-	9	7
Solon	4	-	2	-	-	8	-	-	1	1	1	-	55	-	-	-	2	-	5		13	1	-	14	2
South Euclid-Lyndhurst	5	-	-	3	2	65	3	-	51	-	4	2	237	3	20	2	11	5	29	14		-	-	7	31
Stow-Munroe Falls	51	-	1	-	5	-	47	-	-	25	-	-	1	2	-	4	5	-	1	2	1		1	10	-
Strongsville	2	2	17	4	36	1	-	-	2	-	9	-	-	9	1	24	31	-	1	3	-	-		1	5
Twinsburg	13	-	3	-	-	9	3	1	4	8	2	-	4	-	1	-	3	-	2	7	2	10	-		5
Willoughby-Eastlake	4	-	3	1	-	15	-	2	28	-	3	-	12	-	110	-	7	43	1	1	18	-	4	3	

Source: CRP analysis of ODE enrollment records

District mobility patterns between Cleveland Metropolitan Schools and charter schools

Over two school years, 6,488 students were exchanged between CMS schools and the 30 largest charter schools. Seventy-eight of these exchanges were from CMS to a physical charter school, and 22% were with e-charters. Fifteen charter schools exchanged at least 150 students with CMS over two years, led by Promise Academy (901) and eCOT (837). Two e-schools were among top five charter schools that exchanged students with CMS (Table 15).

For grades K-7, nearly the same number of students came to CMS from the top 30 charter schools (1,454) than went to these schools from CMS (1,437). For grades 8-11, 2.7 students went to a charter school from CMS (2,617) for every one student that came to CMS (980) from a charter school.

Table 15. Top 30 charter schools in students exchanged with CMS, October 2009–May 2011

Charter school *(e-charter) *Dropout recovery school*	Rating	Econ. disadv. (%)	Total students exchanged	Grades K–7		Grades 8–11	
				To CMS	From CMS	To CMS	From CMS
Promise Academy*	C	92.6	901	0	0	136	765
Electronic Classroom Of Tomorrow	C	76.9	837	66	125	149	497
Life Skills Center Of Lake Erie*	C	92.4	401	0	0	68	333
Ohio Virtual Academy	B	55.3	351	77	109	60	105
Life Skills Of Northeast Ohio*	F	81.4	332	0	0	57	275
Life Skills Center Of Cleveland*	F	94.4	276	0	0	41	235
Cleveland Entrepreneurship Preparatory School	A	83.4	252	126	107	19	0
Virtual Schoolhouse, Inc.	F	88.1	189	27	46	41	75
Cleveland Academy for Scholarship Tech. and Leadership*	D	77.1	176	0	0	49	127
Hope Academy Cathedral Campus	F	93.4	175	65	73	37	0
Arts and Science Preparatory Academy	F	91.7	169	99	60	10	0
Hope Academy Broadway Campus	NA	-	165	124	18	23	0
Hope Academy Cuyahoga Campus	D	92.5	164	67	66	29	2
Elite Academy of the Arts	F	>95.0	151	85	52	13	1
Horizon Science Academy-Denison Middle School	C	90.2	150	46	73	29	2
Apex Academy	C	>95.0	148	90	44	12	2
Cleveland Arts and Social Sciences Academy	F	58.5	143	44	99	0	0
Horizon Science Academy Cleveland	A	78.1	137	0	0	79	58
Hope Academy Chapelside Campus	C	>95.0	132	64	54	14	0
Marcus Garvey Academy	F	>95.0	130	62	49	17	2
Hope Academy East Campus	D	>95.0	129	52	54	22	1
Harvard Avenue Community School	D	90.6	123	66	57	0	0
Northeast Ohio College Preparatory School	B	>95.0	120	34	86	0	0
Cleveland College Preparatory School	C	88.6	115	36	79	0	0
Summit Academy Community School-Parma	F	67.3	113	11	28	21	53
Lion of Judah Academy	D	>95.0	104	67	24	13	0
Ohio Connections Academy, Inc.	B	54.1	104	20	24	23	37
Alternative Education Academy	D	54.1	103	16	22	18	47
Citizens Academy	A	78.3	100	61	39	0	0
Cleveland Lighthouse Community School	D	>95.0	98	49	49	0	0
Total top 30 charters			**6,488**	**1,454**	**1,437**	**980**	**2,617**

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2009–2010.

Cleveland Metropolitan Schools mobility patterns summary: other districts and charters

Over two school years, 14,171 unique students transferred between CMS and another Ohio district or charter school (Table 16). Of these:

- 53% moved to or from another district
- 38% moved to or from a physical charter school
- 9% moved to or from an e-charter school

The largest number of moves to and from other districts or charters occurred among 9th grade students (1,804), followed by kindergarten (1,446), 1st grade (1,428), and 5th grade (1,423).

Table 16. Students moving into or out of CMS by grade and origin/destination type, Oct. 2009–May 2011

Grade	Another public district		Physical charter school		E-charter school	
	To CMS	**From CMS**	**To CMS**	**From CMS**	**To CMS**	**From CMS**
All grades	2,441	5,022	1,800	3,599	292	1,017
K	167	435	136	292	7	21
1	196	390	141	216	7	13
2	186	392	137	216	11	18
3	180	384	134	201	10	30
4	200	397	137	181	17	28
5	152	379	167	240	15	38
6	152	387	157	141	25	54
7	181	413	113	138	24	68
8	217	447	268	152	34	142
9	284	531	129	648	79	281
10	220	387	106	573	29	158
11	118	218	52	326	20	100
12	48	60	28	209	3	40
NA	140	202	95	66	11	26

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2009–2010; NA- grade level not available.

4.3 Building mobility patterns

How many unique students did pairs of buildings have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these buildings?

Exchanges between Cleveland Metropolitan Schools buildings and buildings in other districts

Because of their size, the largest numbers of CMS inter-district building moves occurred at the high school level. None of the top 30 exchanges involved elementary schools. CMS John F. Kennedy, Glenville, John Adams, Collinwood, and John Marshall high schools exchanged a total of at least 100 students each with high schools in the Bedford, Cleveland Heights-University Heights, East Cleveland, Euclid, Garfield Heights, Lakewood, Maple Heights, Orange, Shaker Heights, and Warrensville Heights districts (Table 17).

Table 17. CMS and other districts: 30 building pairs that exchanged the most students, October 2009–May 2011

CMS school building (X)	Rating Bldg. X	School building in another district (Y)	District of Building Y	Rating Bldg. Y	Students exchanged
Collinwood High	D	Shaw High	East Cleveland	D	82
Glenville High	D	Shaw High	East Cleveland	D	78
Collinwood High	D	Euclid High	Euclid	C	63
Glenville High	D	Euclid High	Euclid	C	55
John F. Kennedy High	F	Maple Heights High	Maple Hts.	C	54
John Marshall High	C	Lakewood High	Lakewood	A	53
John F. Kennedy High	F	Warrensville Heights High	Warrensville Hts.	D	50
John Marshall High	C	Shaw High	East Cleveland	D	43
Collinwood High	D	Cleveland Heights High	Cleveland Hts.-University Hts.	B	42
East Technical High	F	Shaw High	East Cleveland	D	40
John F. Kennedy High	F	Shaw High	East Cleveland	D	39
Glenville High	D	Cleveland Heights High	Cleveland Hts.-University Hts.	B	38
John Adams High	F	Cleveland Heights High	Cleveland Hts.-University Hts.	B	37
John F. Kennedy High	F	Cleveland Heights High	Cleveland Hts.-University Hts.	B	35
John F. Kennedy High	F	Garfield Heights High	Garfield Hts.	C	35
John Adams High	F	Shaw High	East Cleveland	D	35
Lincoln-West High	F	Shaw High	East Cleveland	D	35
John Adams High	F	Maple Heights High	Maple Hts.	C	32
John Adams High	F	Garfield Heights High	Garfield Hts.	C	31
John Adams High	F	Warrensville Heights High	Warrensville Hts.	D	30
Carl F. Shuler	NA	Lakewood High	Lakewood	A	28
John F. Kennedy High	F	Euclid High	Euclid	C	25
John Adams High	F	Euclid High	Euclid	C	25
Glenville High	D	Maple Heights High	Maple Hts.	C	24
John Marshall High	C	Orange High	Orange	A	24
John F. Kennedy High	F	Shaker Heights High	Shaker Hts.	B	23
East Technical High	F	Cleveland Heights High	Cleveland Hts.-University Hts.	B	23
John F. Kennedy High	F	Bedford High	Bedford	C	22
John Marshall High	C	Garfield Heights High	Garfield Hts.	C	22
James Ford Rhodes High	C	Lakewood High	Lakewood	A	21

Source: CRP analysis of ODE enrollment records

Exchanges between Cleveland Metropolitan Schools buildings and charter schools

Over two years, the CMS buildings and the physical charter schools that exchanged the most students exchanged a total of 2,412 students (Table 18). Of the exchanges in Table 18, 71% involved exchanges between a CMS high school and a dropout recovery charter school, and 26% were with an e-charter. Promise Academy exchanged 903 students with ten CMS schools.

Table 18. CMS and charter schools: 30 school pairs that exchanged the most students, October 2009–May 2011

CMS school building (X)	Rating Bldg. X	Charter school (Y) *E-charter in italics* *Dropout recovery	Rating Bldg. Y	Students exchanged
John Marshall High School	C	Life Skills Ctr Of Lake Erie*	C	154
Glenville High School	D	Promise Academy*	C	149
Lincoln-West High School	F	Life Skills Ctr Of Lake Erie*	C	142
John Marshall High School	C	*Electronic Classroom Of Tomorrow*	C	130
John Marshall High School	C	Promise Academy*	C	121
John F Kennedy High School	F	Life Skills Of Northeast Ohio*	F	116
East Technical High School	F	Promise Academy*	C	114
Lincoln-West High School	F	*Electronic Classroom Of Tomorrow*	C	105
James Ford Rhodes High School	C	*Electronic Classroom Of Tomorrow*	C	99
John Adams High School	F	Life Skills Of Northeast Ohio*	F	93
John Adams High School	F	Promise Academy*	C	90
John F Kennedy High School	F	Promise Academy*	C	88
Lincoln-West High School	F	Promise Academy*	C	87
Collinwood High School	D	Promise Academy*	C	85
Carl F Shuler	NA	*Electronic Classroom Of Tomorrow*	C	79
James Ford Rhodes High School	C	Promise Academy*	C	71
John F Kennedy High School	F	*Electronic Classroom Of Tomorrow*	C	64
Glenville High School	D	Life Skills Ctr Of Cleveland*	F	63
James Ford Rhodes High School	C	Life Skills Ctr Of Lake Erie*	C	58
Genesis Academy	F	Promise Academy*	C	58
Carl F Shuler	NA	Life Skills Ctr Of Lake Erie*	C	54
East Technical High School	F	*Electronic Classroom Of Tomorrow*	C	52
East Technical High School	F	Life Skills Of Northeast Ohio*	F	51
East Technical High School	F	Life Skills Ctr Of Cleveland*	F	47
John Adams High School	F	*Electronic Classroom Of Tomorrow*	C	47
Collinwood High School	D	Life Skills Ctr Of Cleveland*	F	46
Glenville High School	D	Virtual Schoolhouse, Inc.	F	43
Carl F Shuler	NA	Promise Academy*	C	40
John Marshall High School	C	*Ohio Virtual Academy*	B	35
Glenville High School	D	*Electronic Classroom Of Tomorrow*	C	31

Source: CRP analysis of ODE enrollment records

Exchanges between Cleveland Metropolitan Schools buildings

There were 10,173 CMS students who made a non-promotional change of school within the CMS district over two years. Of the exchanges in Table 19, Lincoln-West High was the most frequent receiving school, followed by John F. Kennedy High, Glenville High, and Willson. The most frequent sending schools were East Technical High, John Adams High, James Ford Rhodes High, and Luis Munoz Marin High.

Table 19. CMS: 30 building pairs that exchanged the most students, October 2009–May 2011

CMS building (X)	Rating of Building X	CMS building (Y)	Rating of Building Y	Students exchanged
John Adams High	F	John F Kennedy High	F	270
John Marshall High	C	Lincoln-West High	F	192
East Clark	F	Euclid Park Elementary	F	167
James Ford Rhodes High	C	Lincoln-West High	F	145
Carl & Louis Stokes Central Academy	F	George Washington Carver	F	137
Collinwood High	D	Glenville High	D	120
East Technical High	F	John Adams High	F	114
James Ford Rhodes High	C	John Marshall High	C	111
Garfield Elementary	B	Newton D Baker	C	99
East Technical High	F	Glenville High	D	97
Daniel E Morgan	B	Willson	F	96
Orchard	C	Waverly Elementary	D	96
Carl F Shuler	NA	Lincoln-West High	F	95
Denison	B	Watterson-Lake	C	95
Wade Park	D	Willson	F	95
Franklin D. Roosevelt	F	Michael R. White	F	94
East Technical High	F	John F Kennedy High	F	92
Andrew J Rickoff	D	Charles Dickens	F	90
Luis Munoz Marin	F	Walton	C	90
Luis Munoz Marin	F	Paul L Dunbar Elementary @ Brooklawn	D	86
Almira	D	Wilbur Wright	D	85
Luis Munoz Marin	F	Scranton	D	77
East Technical High	F	Genesis Academy	F	75
Marion C Seltzer Elementary	D	Watterson-Lake	C	73
Charles A Mooney	F	Denison	B	70
Charles A Mooney	F	William C Bryant Elementary	A	70
Benjamin Franklin	B	Charles A Mooney	F	67
Mary B Martin	F	Wade Park	D	67
Buckeye-Woodland	F	Harvey Rice Elementary	F	66
East Technical High	F	Lincoln-West High	F	64

Source: CRP analysis of ODE enrollment records

4.4   Origin and destination performance ratings

What is the performance rating of the destination school of mobile students, compared to the rating of the school of origin?

Tables 20-25 display the school year 2010–2011 state report card performance rating of the origin school and destination school for the most recent move a student made over a two school year period, where one of the schools was in the CMS district. Green table cells denote a destination school that is at least two ratings higher than the origin school, and orange cells denote a destination that is at least two rating lower than the origin schools. These tables exclude school changes involving a building with no rating available.

Exiting Cleveland Metropolitan Schools for another district

Of the 4,296 students over two years who exited CMS for another district, 49.5% moved to a school with a performance rating at least two ratings *higher* than their CMS school of origin, while 4.0% moved to a school with a rating two or more ratings *lower* than their school of origin.

Table 20. Rating of origin and destination building for students *exiting* CMS for another district, Oct. 2009–May 2011

n=4,296 moves	Rating of **DESTINATION** school in other Ohio district					
Rating of **ORIGIN** CMS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	1	5	5	7	4	1
Excellent (A)	8	39	36	28	6	0
Effective (B)	21	168	117	120	79	22
Continuous Improvement (C)	14	241	160	147	86	19
Academic Watch (D)	33	250	266	347	220	51
Academic Emergency (F)	45	332	359	564	376	119

Source: CRP analysis of ODE enrollment records

Entering Cleveland Metropolitan Schools from another district

Of the 2,232 students over two years who entered CMS from another district, 4.0% moved to a CMS school with a performance rating at least two ratings *higher* than their school of origin, while 49.8% moved to a CMS school with a rating two or more ratings *lower* than their school of origin.

Table 21. Rating of origin and destination buildings for students *entering* CMS from another district, Oct. 2009–May 2011

n=2,232 moves	Rating of **DESTINATION** CMS school					
Rating of **ORIGIN** school in other Ohio district	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	6	4	11	19
Excellent (A)	4	14	75	146	105	205
Effective (B)	1	18	62	93	135	181
Continuous Improvement (C)	5	20	43	84	155	299
Academic Watch (D)	1	13	31	46	119	236
Academic Emergency (F)	0	0	7	12	28	54

Source: CRP analysis of ODE enrollment records

Exiting Cleveland Metropolitan Schools for a charter school

Of the 3,794 students over two years who left CMS for a charter school, 30.0% moved to a charter school with a performance rating at least two ratings *higher* than their CMS school of origin, while 5.2% moved to a charter school with a rating two or more ratings *lower* than their school of origin.

Table 22. Rating of origin and destination buildings for students *exiting* CMS for a public charter school (including e-charters), October 2009–May 2011

n=3,794 moves	Rating of DESTINATION charter school					
Rating of ORIGIN CMS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	1	1	1
Excellent (A)	1	5	3	18	4	7
Effective (B)	5	30	63	103	37	45
Continuous Improvement (C)	1	24	98	568	86	83
Academic Watch (D)	2	60	94	392	128	227
Academic Emergency (F)	12	94	128	720	256	497

Entering Cleveland Metropolitan Schools from a charter school

Of the 1,869 students over two years who entered CMS from a charter school, 9.6% moved to a CMS school with a performance rating at least two ratings *higher* than their school of origin, while 33.2% moved to a CMS school with a rating two or more ratings *lower* than their school of origin.

Table 23. Rating of origin and destination buildings for students *entering* CMS from a public charter school (including e-charters), October 2009–May 2011

n=1,869	Rating of DESTINATION CMS school					
Rating of ORIGIN charter school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	2	2	7	5	8
Excellent (A)	0	23	24	39	46	93
Effective (B)	1	6	20	47	42	79
Continuous Improvement (C)	1	19	60	154	115	300
Academic Watch (D)	0	4	43	49	75	163
Academic Emergency (F)	1	17	35	59	93	237

Moving between Cleveland Metropolitan Schools buildings

Of the 9,934 students over two years who moved from one CMS building to another, 12.7% moved to a building with a performance rating at least two ratings *higher* than their CMS school of origin, while 13.9% moved to a building with a rating two or more ratings *lower* than their school of origin.

Table 24. Rating of origin and destination buildings for students changing schools *within* the CMS district, October 2009–May 2011

n=9,934 moves	Rating of DESTINATION CMS school					
Rating of ORIGIN CMS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	3	3	3	8	21
Excellent (A)	4	11	29	30	44	69
Effective (B)	2	29	148	227	272	360
Continuous Improvement (C)	11	14	317	283	418	572
Academic Watch (D)	19	37	257	425	675	1,188
Academic Emergency (F)	30	46	312	529	962	2,576

Summary of destination performance ratings

Table 25. Summary: Rating of destination buildings for CMS students changing schools, October 2009–May 2011

Type of move	Number of student movers	Rating of destination school compared to school of origin		
		2 or more ratings lower (% of movers)	Same rating or 1 rating higher/lower (% of movers)	2 or more ratings higher (% of movers)
Exiting CMS for another district	4,296	4.0	46.6	49.5
Entering CMS from another district	2,232	49.8	46.2	4.0
Exiting CMS for a charter school	3,794	5.2	64.8	30.0
Entering CMS from a charter school	1,869	33.2	57.1	9.6
Changing schools within CMS	9,934	13.9	73.4	12.7

4.5 Open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

As of school year 2010–2011, CMS had only one adjacent district—East Cleveland—that accepted open enrollment students from other districts. However, many districts in the Cleveland Area—particularly those in Ring 2—do permit open enrollment (Map 9). Twenty-four pairs of Cleveland Area districts had at least 50 students who resided in one district, but attended school in another district through inter-district open enrollment. These include Cleveland residence and enrollment in East Cleveland (700), Lorain and Clearview (498), Akron and Springfield (286), Elyria and Midview (252), and Akron and Cuyahoga Falls (202). While the Coventry school district is not located in the study area, Akron to Coventry represented the largest open enrollment pair (706) in the state.

Map 9. Open enrollment patterns of Cleveland Area districts and total incoming open enrollment, SY 2010–2011
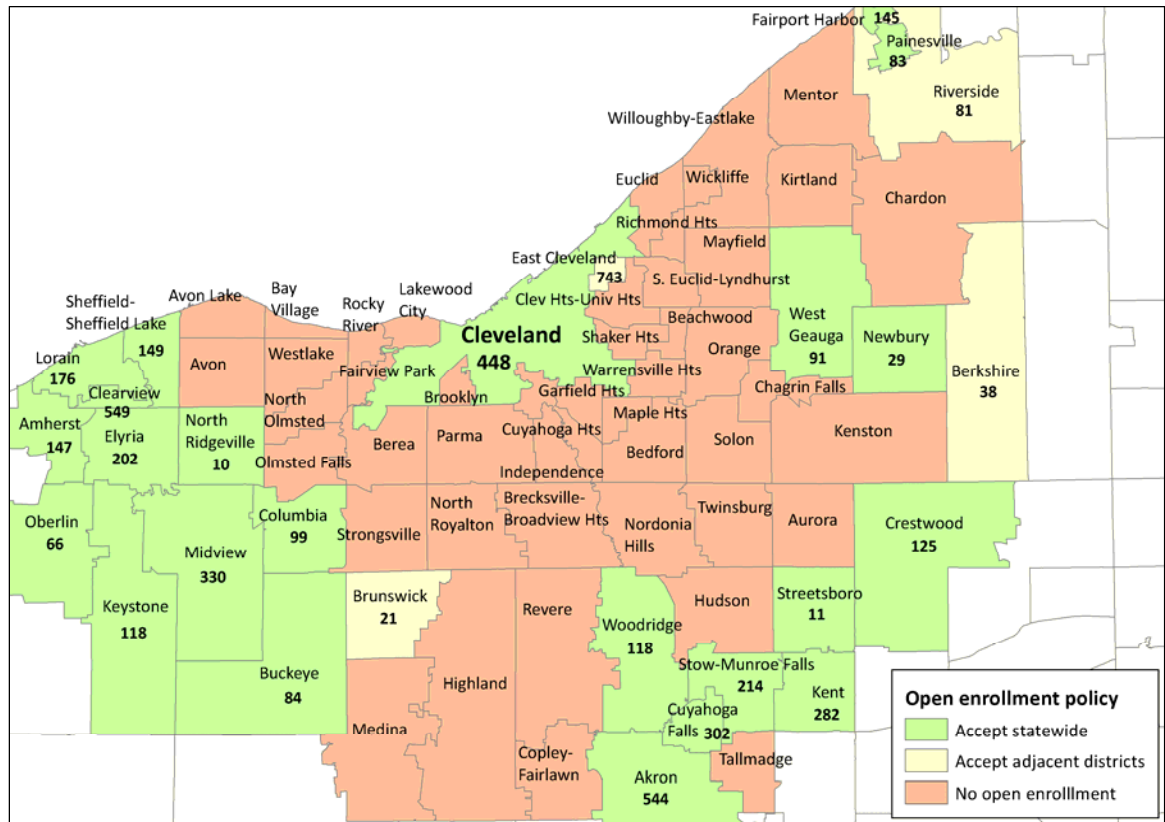
Source: CRP analysis of ODE enrollment records

5.0 Mobility and the student

5.1   Section overview and key concepts

This section of the report examines the relationship of mobility and student characteristics and achievement for CMS students. The analysis includes: (1) differences in demographic characteristics of mobile and non-mobile student groups, (2) differences in demographics of students who left the district based on the type of destination school, and (3) differences in proficiency test scores based on mobility status.

Student characteristics and mobility status

How do stable CMS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

- The demographic characteristics of CMS student groups based on their mobility status over a one-year period from October 1, 2009 to October 1, 2010, and statistical differences between these groups.

Data notes

- Demographic characteristics are from ODE student records and include race, grade, economic disadvantage, homeless, immigrant, LED, disability

Student characteristics and destination of outgoing students

How do the characteristics of outgoing CMS students differ based on their destination school?

- The demographic characteristics of CMS students who left the district from October 1, 2009 to October 1, 2010, based on their destination school type.

Data notes

- Demographic characteristics are from ODE student records and include race, grade, economic disadvantage, homeless, immigrant, LED, disability.

- Destination schools include another Ohio district, physical charter school, e-charter school, district outside of Ohio, and other (includes expulsion, court order, private school, vocational school, home school, dropout, early graduation, medical, death, and unknown, which is the largest group)

Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

- **Mobility history:** Amount and type of student mobility of 3rd and 8th grade proficiency test takers during the two-year period preceding the school year 2011 test period.

- **Proficiency test passage:** Statistical analysis of the relationship between the mobility history of student groups and student attributes and proficiency on state achievement tests.

Data notes

- Mobility history includes: total school building changes (non-promotional), number of districts attended, number of community schools attended, and within school year withdrawal/reentry to same school.

- Mover groups include: 0 moves, 1 summer-only move, 1 during school year move, 2 moves, 3+ moves. Students in the 2-moves and 3+ moves groups have at least one school year move, but may have a combination of summer and school year moves.

5.2 Student characteristics and mobility status

How do stable CMS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

Table 26 compares the enrollment and mobility status of CMS students on October 1, 2009, and on October 1, 2010. Statistical tests found the following significant differences between these groups:

- **Movers between CMS buildings**. Compared to stable CMS students, those who move between CMS buildings were more likely to be black or homeless.

- **Outgoing and incoming students**. Compared to outgoing CMS students, incoming students were more likely to be Hispanic.

Stable CMS students were fairly evenly distributed across grade levels (7-9% in each grade, with 11% in grade 9). The following was the grade distribution of mover groups:

- **Movers between CMS buildings.** Fifty-six percent of students who moved between CMS buildings were in grades K-4, and another 21% were in grades 6 and 7.

- **Outgoing students**. Twenty-seven percent of students who left the district were in grades 9 and 10.

- **Incoming students**. Nearly one in four students who entered the district was in grade 8 or 9.

5.3 Student characteristics and destination of outgoing students

How do the characteristics of outgoing CMS students differ based on their destination school?

Statistical tests found the following significant differences between groups of students leaving the CMS district, based on their destination school (Table 26):

- **Race.** Compared to other racial groups, black students were more likely to move to a physical charter school; white students were more likely to move to an e-charter; and Hispanic students were more likely to move to a district outside of Ohio or e-charter school.

- **Homeless.** Homeless CMS students are more likely than those who are homeless to move to a district outside of Ohio.

- **Immigrant.** Immigrant CMS students are more likely than those who are not immigrants to move to a district outside of Ohio or a physical charter school.

- **LEP.** LEP students are more likely than those who are not LEP to move to a district outside of Ohio.

Stable CMS students were fairly evenly distributed across grade level (7-9% in each grade, with 11% in grade 9). The following was the grade distribution of mover groups based on their destination school:

- **Other Ohio district.** Twenty percent of CMS students who moved to another Ohio district were in grades 8 and 9.

- **Physical charter**. Nearly one-half of CMS students who moved to a physical charter was in grades K, 5, 9, or 10.

- **E-students.** Fifty-nine percent of CMS students who moved to an e-charter were in grades 8-10, with 29% in grade 9.

- **District outside of Ohio.** About one-third of students who moved to a district outside of Ohio were in grades 1-4, and another 11% were in grade 9.

Table 26. Characteristics of CMS mobile and non-mobile students, Oct. 1, 2009 to Oct. 1, 2010

	Characteristics of non-mobile and mobile CMS students				Characteristics of outgoing CMS students by destination				
	Stayed in district		Incoming (entered the district)	Outgoing (left the district)	Other Ohio district	Physical charter school	E-charter school	District outside of Ohio	Other or NA (3)
	Stable student (1)	Move between CMS buildings (2)							
All	**28,973**	**5,907**	**4,779**	**8,773**	**2,756**	**2,025**	**406**	**501**	**3,085**
	%	%	%	%	%	%	%	%	%
Race									
Black	67.6	71.3	65.6	68.9	69.9	80.2	47.0	47.9	66.7
White	14.7	12.2	13.4	14.4	17.1	7.1	32.8	14.8	14.4
Hispanic	13.5	11.9	14.5	11.4	7.1	8.8	14.3	32.1	13.2
Asian	0.7	0.3	1.3	0.6	0.6	0.3	0.2	1.6	0.6
Other	3.5	4.3	5.3	4.7	5.3	3.6	5.7	3.6	5.1
Grade SY 2009-2010									
K	7.5	11.5	9.6	8.6	9.9	10.8	2.7	8.8	6.7
1	7.9	12.1	8.6	7.2	8.2	8.5	1.2	10.2	5.9
2	7.4	11.0	7.8	7.4	8.8	9.3	1.2	11.4	5.1
3	7.7	10.9	8.5	6.9	8.2	7.7	4.2	10.0	5.2
4	7.8	10.5	8.2	6.8	8.9	7.6	3.7	8.0	4.6
5	7.7	9.9	7.3	7.4	7.8	11.2	4.9	6.0	5.1
6	7.9	10.3	7.5	6.3	8.2	5.7	6.2	6.6	5.0
7	8.1	10.4	7	6.5	8.7	5.3	7.6	8.4	5.0
8	9.4	0.5	16.4	8.7	10.7	4.1	14.5	7.4	9.3
9	10.6	7.2	9.6	15.0	9.3	12.6	29.1	10.8	20.6
10	9.8	4.1	5.6	12.1	7.7	12.3	15.8	6.4	16.4
11	8.3	1.6	4	7.0	3.8	4.9	8.9	6.2	11.2
Economic Disadvantage									
No	0.0	0.0	0	0.1	0.0	0.0	0.0	0.2	0.3
Yes	100.0	100.0	100.0	99.9	100.0	100.0	100.0	99.8	99.7
Homeless									
No	96.2	90.6	89.4	93.6	92.8	95.2	95.6	90.0	93.6
Yes	3.8	9.4	10.6	6.4	7.2	4.8	4.4	10.0	6.4
Immigrant									
No	98.7	99.3	98.3	98.6	99.2	98.4	99.5	96.8	98.3
Yes	1.3	0.7	1.7	1.4	0.8	1.6	0.5	3.2	1.7
LEP									
No	93.4	95.5	91.3	95.3	97.8	97.0	96.6	83.4	93.7
Yes	6.6	4.5	8.7	4.7	2.2	3.0	3.4	16.6	6.3
Disability									
No	74.6	74.8	77.4	77.8	76.2	81.2	79.8	82.6	76.0
Yes	25.4	25.2	22.6	22.2	23.8	18.8	20.2	17.4	24.0

Source: CRP and OSU Statistical Consulting Services analysis of ODE enrollment records

(1) Stable student: did not move or a promotional move only (i.e. elementary to middle school, middle school to high school)

(2) Does not include promotional moves

(3) Includes expulsion, court order, private school, vocational school, home school, dropout, early graduation, medical, death, and unknown, which is the largest group

5.4   Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

Mobility history of test takers

Of the 6,130 3rd and 8th grade CMS students who took the OAA tests in spring 2011, 43% of 3rd grade test takers and 40% of 8th-grade test takers made at least one non-promotional move during the previous two school years (Table 27). The largest mover group was those who made one move during the school year.

Table 27. CMS: Mobility history of test-takers in spring 2011

Mobility type and amount	3rd grade		8th grade	
	#	%	#	%
Test-takers	3,076	100.0	3,054	100.0
Total school changes over two school years				
0 moves	1,747	56.8%	1,843	60.3%
1 summer-only move	351	11.4%	272	8.9%
1 during school year move	518	16.8%	514	16.8%
2 moves	338	11.0%	305	10.0%
3+ moves	122	4.0%	120	3.9%

Source: CRP analysis of ODE enrollment records

Mobility history and economic disadvantage

The economic disadvantage rate for CMS was >95.0% in school year 2010-2011. As a result, there were not enough students in the "non-economic disadvantage" group to draw conclusions about the level of economic disadvantage by mover group.

Mobility history and test scores

The slope of average test scores and passage rates of 3rd and 8th grade OAA tests based on number of number of school moves is fairly flat (Figures 1, 2). All 0-move groups had the highest scores and rates, and the group with one summer move had higher scores and rates than those with a school year move. However, there is no clear pattern among the other groups. For the 3rd grade reading and math tests, scores and rates were higher for the 3+ mover group than for those with one or two moves.

Figure 1. CMS: Average scores on spring 2011 OAA tests by two-year mobility history

	0 moves	1 summer move	1 school year move	2 moves	3+ moves
Reading G3	402	401	396	396	398
Math G3	406	405	397	396	400
Reading G8	410	405	402	402	399
Math G8	398	392	390	389	387
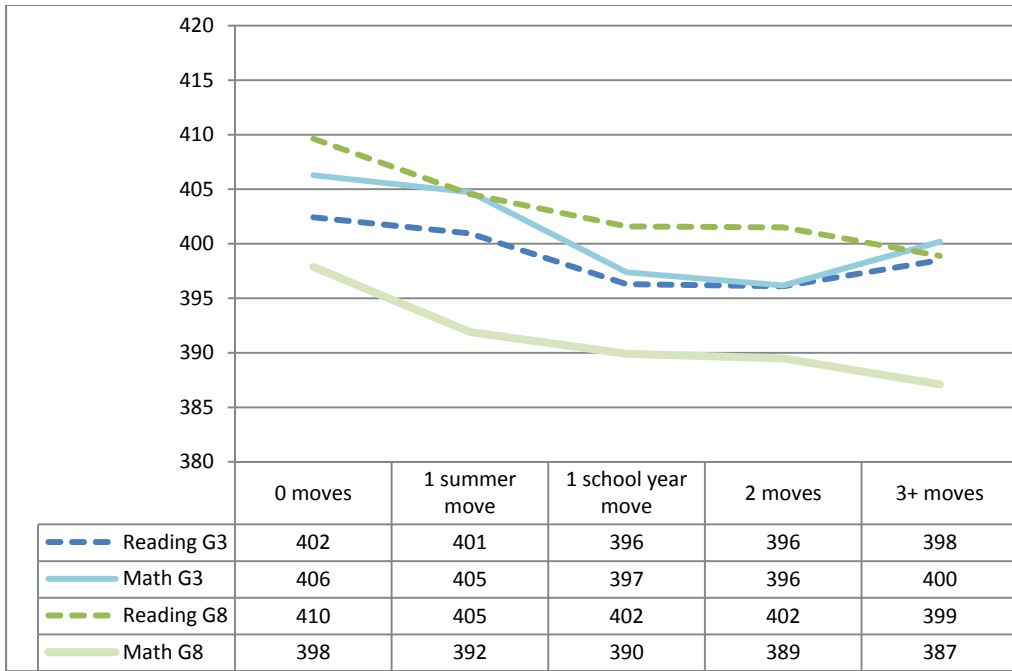
Source: CRP and OSU Statistical Consulting analysis of enrollment records

Figure 2. CMS: Passage rates on spring 2011 Ohio Achievement Assessments by two-year mobility history
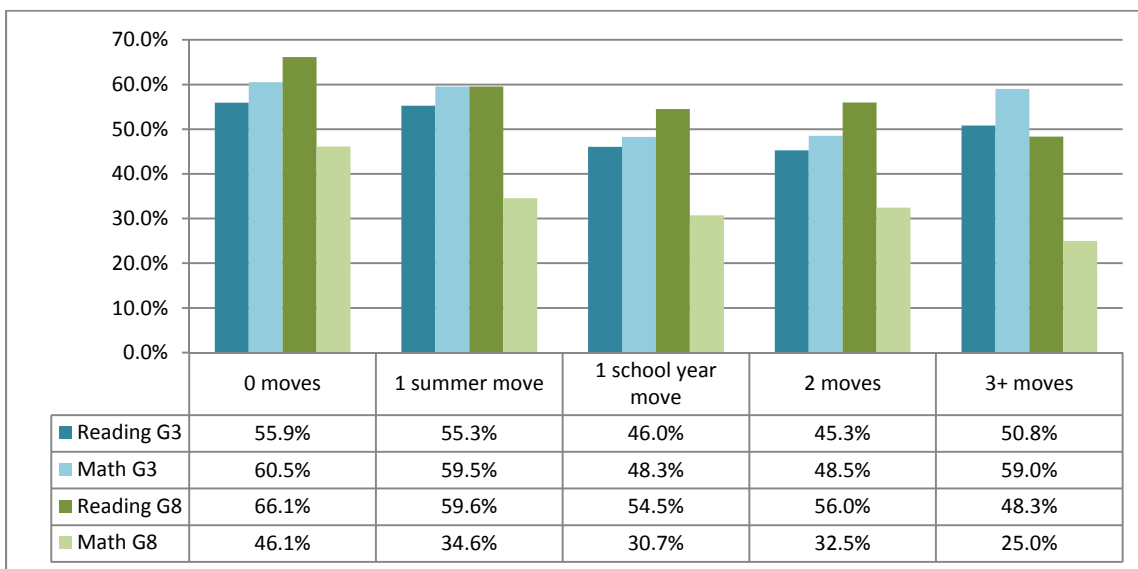
	0 moves	1 summer move	1 school year move	2 moves	3+ moves
Reading G3	55.9%	55.3%	46.0%	45.3%	50.8%
Math G3	60.5%	59.5%	48.3%	48.5%	59.0%
Reading G8	66.1%	59.6%	54.5%	56.0%	48.3%
Math G8	46.1%	34.6%	30.7%	32.5%	25.0%

Source: CRP and OSU Statistical Consulting analysis of enrollment records

Summary: relationship of mobility, student characteristics, and test scores

Average test scores

Figure 3 shows the average scores on the spring 2011 3rd grade math test for selected student groups. Scores were highest for the following CMS student groups:

- Not economically disadvantaged
- Asian or non-Hispanic white
- Had no school moves or only one summer move over the past two years

Figure 3. CMS: Average scores on 3rd grade math test by student groups, spring 2011
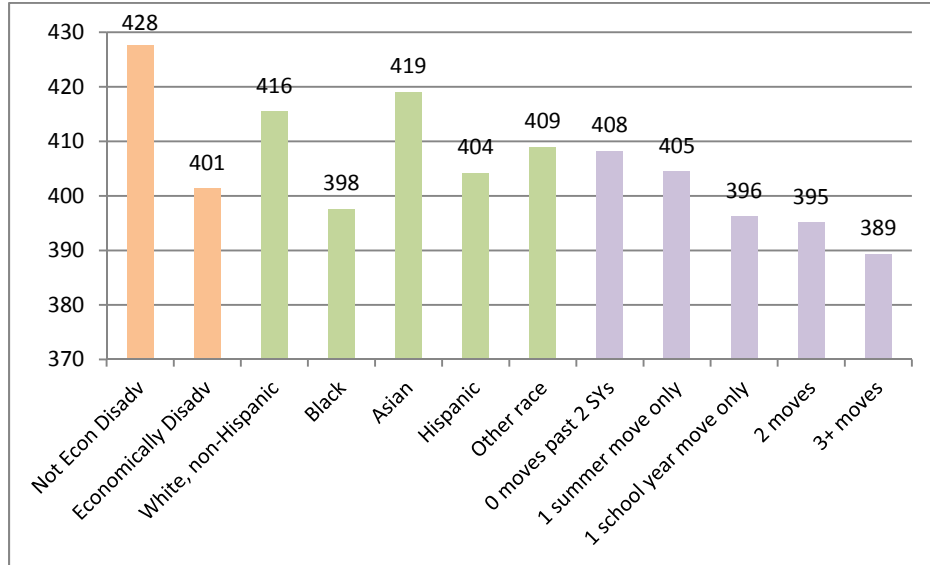
Source: CRP and OSU Statistical Consulting Services analysis of ODE enrollment records

Statistical modeling

Table 28 shows the results of statistic tests of differences between groups in test scores based on the following factors: economic disadvantage, race or ethnicity, or number of moves over the past two years. The p-values on the table are for the test of whether there is a significant difference in scores due to each factor *after all other factors have been adjusted for*. If the p-value is small ($p <= 0.05$), the factor is very important in predicting/modeling the test scores. For example, if race has a small p-value, then it improves the model to predict test scores even after all other predictors have been used. Those predictors with small p-values are truly important predictors of test scores.

For the CMS student groups analyzed, the low p-values ($<.0001$) for all factors indicate that the number of school changes over two years is an independent predictor of test scores. There is a statistically significant relationship between more school moves and lower test score. Race is also independent predictors of test scores. There were not enough students in the "non-economic disadvantage" group to draw conclusions about this as a predictor of test scores.

Table 28. CMS: Significance of relationship of factors to test scores on selected Ohio Achievement Assessments, spring 2011

Factor	Grade 3 Reading	Grade 3 Mathematics	Grade 8 Reading	Grade 8 Mathematics
Economic disadvantage status	NA	NA	NA	NA
Race or ethnicity category	<.0001	<.0001	<.0001	<.0001
Total number of school changes over past 2 school years	<.0001	<.0001	<.0001	<.0001

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records.

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The statistical modeling also examined the differences in test scores based on the number of moves, and whether a move was in the summer or school year (Table 29). The following were found to be significant differences in mover groups:

- **Grade 3 math test scores.** All school year mover groups have lower mean test scores than those of the 0-mover mover group. The groups with one school year move and two moves have lower test scores than the group that moved only once in the summer.

- **Grade 3 reading test scores.** The group that moved once in the school year and the 2-move group have lower mean test scores than those of the 0-mover mover group.

- **Grade 8 math and reading test scores.** All mover groups have lower mean test scores than those of the 0-mover group.

Table 29. Significant differences in mean test scores of CCS students by number of moves over two school years preceding spring 2011 OAA tests

Grade	0 moves	1 move, summer	1 move, school year	2 moves	3+ moves
Grade 3 Math					
0 moves					
1 move, summer	no				
1 move, school year	yes (1)	yes			
2 moves	yes	yes	no		
3 or more moves	yes	no	no	no	
Grade 3 Reading					
0 moves					
1 move, summer	no				
1 move, school year	yes	no			
2 moves	yes	no	no		
3 or more moves	no	no	no	no	
Grade 8 Math					
0 moves					
1 move, summer	yes				
1 move, school year	yes	no			
2 moves	yes	no	no		
3 or more moves	yes	no	no	no	
Grade 8 Reading					
0 moves					
1 move, summer	yes				
1 move, school year	yes	no			
2 moves	yes	no	no		
3 or more moves	yes	no	no	no	

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records.

(1) "yes" indicates p-value of <= 0.05 in tests of difference between groups

5.5 Mobility and achievement test roll-up level

An impact of student mobility is that mobile students may not meet the enrollment criteria—continually enrolled in a building or district from October 31 until the spring achievement testing date—for counting their test scores in a building's or district's performance rating. Instead, their test score is "rolled up" and counts only for the district or state rating.

- Among the Cleveland Area Ring 1 districts, CMS has the highest percentage of students whose achievement test scores are rolled up to the state (Table 30).

- The CMS figure (14.2%) is the highest among the Major Urban districts, with East Cleveland (10.2%) having the second highest percentages of state-only accountability among test takers. Akron (4.3%) and Warren (5.3%) had the lowest roll-up percentages.

Table 30. Cleveland Area Ring 1 districts: Roll-up for OAA test-takers in grades 3 to 8, spring 2011 test period

District	District rating	Econ. Disadv. (%)	Test-takers	Percentage of tests rolled up to district or state accountability		
				Building	District	State
Cleveland	D	>95.0	19,403	79.1	6.7	14.2
East Cleveland	D	88.5	1,285	88.9	0.9	10.2
Garfield Hts.	C	64.7	1,831	90.1	0.4	9.6
Warrensville Hts.	D	60.2	808	91.0	0.0	9.0
Maple Hts.	B	70.8	1,809	91.6	0.1	8.3
Euclid	C	66.0	2,474	90.2	2.5	7.3
Cleveland Hts.-University Hts.	C	61.3	2,706	91.7	1.2	7.1
Bedford	C	60.6	1,633	92.5	0.7	6.9
Beachwood	A	10.1	640	94.8	0.0	5.2
Richmond Hts.	C	53.0	414	95.2	0.0	4.8
Orange	A+	13.8	1,022	93.5	1.8	4.7
Shaker Hts.	B	31.6	2,505	95.5	0.2	4.4
Lakewood	A	49.3	2,573	95.2	0.5	4.3
South Euclid-Lyndhurst	C	48.5	1,812	95.9	0.2	3.9
Parma	A	42.6	5,139	95.4	0.9	3.6
North Olmsted	A	38.6	1,827	96.2	0.5	3.3
Brooklyn	B	48.6	624	97.3	0.0	2.7
Fairview Park	A	26.2	748	97.3	0.0	2.7
Cuyahoga Hts.	A	21.3	409	97.6	0.0	2.4
Solon	A	9.2	2,344	97.6	0.1	2.3
Mayfield	A+	19.8	1,709	97.4	0.3	2.3
Olmsted Falls	A	17.1	1,768	97.9	0.0	2.1
Brecksville-Broadview Hts.	A+	11.5	1,986	97.9	0.0	2.1
Strongsville	A	15.3	3,062	97.6	0.3	2.1
North Royalton	A	15.7	2,053	98.0	0.0	2.0
Westlake	A	14.6	1,822	97.9	0.2	1.9
Independence	A	10.3	470	98.1	0.0	1.9
Rocky River	A+	11.2	1,183	99.1	0.0	0.9
Bay Village	A	9.6	1,211	99.1	0.0	0.9
Berea	A	37.5	3,115	99.2	0.5	0.3

Source: CRP analysis of ODE enrollment records

Appendices

Appendix A. Cleveland Area public school districts

Appendix B. Cleveland Area public school buildings

Appendix C. Cleveland Area public charter schools

The appendix provides basic mobility measures and demographics for all districts and schools in the Cincinnati Area. Additional data fields—including the component values used to calculate stability and churn rates—can be found in online spreadsheets at www.researchpartners.org.

Appendix A. Cleveland Area public school districts, school year 2010–2011 (unless noted)

Ring	District	Rating	Average daily enrollment	Enrollment change since school year 2000–2001	Economic disadvantage	Minority race or ethnicity	Limited English Proficiency	Grade 3 reading proficiency, spring assessment	District cohort stability, Oct. 1, 2009–May 15, 2011 Grades K-7	Grades 8-11	Building cohort stability, Oct. 1, 2009–May 15, 2011 Grades K-7	Grades 8-11	Churn rate, Oct. 1, 2010–May 15, 2011 Grades K-8	Grades 9-12	Achievement test roll-up to state level for spring 2011 math test-takers, grades 3–8	In bricks and mortar public charter school	In public e-charter school	OUT: Residing in district but enrolling in other district	IN: Attending district through open enrollment
			#	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Bay Village	A	2,453	10.0	9.6	6.0	0.7	94.3	95.1	94.0	95.1	93.7	2.2	3.0	0.9	0.0	1.0	0.0	0.0
1	Beachwood	A	1,551	0.0	10.1	38.8	2.6	92.0	89.1	92.0	89.0	92.2	10.2	4.2	5.2	0.6	0.2	0.0	0.0
1	Bedford	C	3,566	-7.2	60.6	88.4	0.8	80.6	80.6	76.7	75.5	73.4	15.6	16.7	6.9	1.5	3.3	0.7	0.0
1	Berea	A	7,017	-9.2	37.5	19.0	1.3	89.9	89.9	89.7	88.5	89.2	7.4	9.1	0.3	0.4	1.7	0.1	0.0
1	Brecksville-Broadvw. Hts.	A+	4,288	5.2	11.5	11.2	1.6	96.6	94.5	94.5	93.3	95.3	3.4	2.6	2.1	0.2	1.0	0.0	0.0
1	Brooklyn	B	1,456	9.6	48.6	31.3	3.8	72.8	89.9	85.9	89.5	82.7	7.8	9.5	2.7	2.1	2.4	0.4	0.0
1	Cleveland	D	43,202	-40.2	>95.0	85.4	6.1	55.3	76.5	66.1	54.7	57.7	16.2	30.8	14.2	23.6	3.8	1.1	0.9
1	Cleveland Hts.-Univ. Hts.	C	5,907	-14.3	61.3	83.0	1.2	72.6	79.4	72.1	73.8	66.9	15.8	22.7	7.1	4.1	2.7	1.7	0.0
1	Cuyahoga Hts.	A	906	14.5	21.3	6.7	0.0	93.3	94.0	94.9	93.8	96.3	1.4	1.3	2.4	0.1	0.9	0.0	0.0
1	East Cleveland	D	3,182	-43.7	88.5	>95.0	0.3	45.2	69.1	62.6	64.6	61.6	23.9	22.9	10.2	14.9	2.0	2.9	20.3
1	Euclid	C	5,793	-4.3	66.0	83.6	0.2	56.4	77.1	76.8	68.6	72.8	16.9	16.4	7.3	11.4	2.5	0.9	0.0
1	Fairview Park	A	1,703	-8.3	26.2	13.0	4.0	93.2	88.1	88.0	88.7	88.2	5.3	4.7	2.7	0.6	2.8	0.1	0.0
1	Garfield Hts.	C	3,823	12.6	64.7	60.5	0.4	71.5	79.2	76.5	78.0	73.6	17.9	15.8	9.6	2.7	4.2	0.8	0.0
1	Independence	A	1,101	7.4	10.3	<5.0	0.0	97.1	96.3	93.2	96.1	94.4	3.0	1.4	1.9	0.4	0.7	0.0	0.0
1	Lakewood	A	5,667	-20.4	49.3	24.6	6.8	81.3	83.5	80.3	78.2	75.5	12.9	16.6	4.3	4.7	2.4	0.2	0.0
1	Maple Hts.	B	3,793	-0.2	70.8	>95.0	0.3	63.6	76.7	72.7	72.9	72.5	19.1	23.7	8.3	2.5	3.8	0.8	0.0
1	Mayfield	A+	4,141	0.8	19.8	25.5	2.7	86.0	90.2	89.8	84.3	89.8	6.0	8.5	2.3	0.3	1.3	0.2	0.0
1	North Olmsted	A	4,001	-12.9	38.6	13.0	6.5	88.3	88.4	88.8	85.7	89.0	8.4	6.5	3.3	0.7	2.0	0.2	0.0
1	North Royalton	A	4,368	3.5	15.7	8.8	1.7	95.0	91.2	92.2	90.7	91.0	5.0	4.1	2.0	0.5	2.0	0.1	0.0
1	Olmsted Falls	A	3,638	20.7	17.1	7.9	0.5	87.6	92.8	92.2	92.5	92.8	5.5	5.8	2.1	0.5	1.2	0.4	0.0
1	Orange	A+	2,203	-3.5	13.8	34.1	1.0	87.7	91.1	86.6	94.6	89.3	10.7	39.1	4.7	0.0	0.7	0.0	0.0
1	Parma	A	11,251	-11.4	42.6	12.1	1.9	79.4	85.7	84.8	80.9	80.9	10.6	12.5	3.6	5.1	3.1	0.1	0.0
1	Richmond Hts.	C	889	-14.0	53.0	89.1	2.0	78.8	75.0	71.9	53.0	71.9	17.7	18.8	4.8	4.7	2.4	1.8	0.0
1	Rocky River	A+	2,529	6.1	11.2	8.0	2.0	97.8	94.0	93.5	94.3	93.5	3.4	3.7	0.9	0.1	0.9	0.1	0.0
1	Shaker Hts.	B	5,388	-2.0	31.6	63.1	2.2	84.8	86.0	83.0	84.6	82.5	8.9	10.8	4.4	1.0	1.2	0.3	0.0
1	Solon	A	5,043	2.8	9.2	32.4	2.5	94.1	93.6	94.1	91.7	94.6	4.0	2.9	2.3	0.1	0.4	0.1	0.0

	Cleveland Area public school districts alphabetical by name within Ring1 and Ring 2		District attributes						District cohort stability, Oct. 1, 2009–May 15, 2011		Building cohort stability, Oct. 1, 2009–May 15, 2011		Churn rate, Oct. 1, 2010–May 15, 2011			Students residing in district but attending charter school		Inter-district open enrollment	
Ring	District	Rating	Average daily enrollment	Enrollment change since school year 2000–2001	Economic disadvantage	Minority race or ethnicity	Limited English Proficiency	Grade 3 reading proficiency, spring assessment	Grades K-7	Grades 8-11	Grades K-7	Grades 8-11	Grades K-8	Grades 9-12	Achievement test roll-up to state level for spring 2011 math test-takers, grades 3–8	In bricks and mortar public charter school	In public e-charter school	OUT: Residing in district but enrolling in other district	IN: Attending district through open enrollment
			#	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	South Euclid-Lyndhurst	C	4,174	-0.9	48.5	68.8	1.1	82.3	83.2	87.2	81.2	88.5	9.4	9.4	3.9	1.4	1.8	0.4	0.0
1	Strongsville	A	6,515	-4.5	15.3	12.5	2.8	89.7	92.9	93.0	90.5	92.6	4.8	4.2	2.1	0.2	1.3	0.2	0.0
1	Warrensville Hts.	D	1,956	-34.1	60.2	>95.0	0.0	59.1	66.1	61.4	63.6	58.1	22.8	26.9	9.0	5.5	3.4	1.2	0.0
1	Westlake	A	3,891	9.7	14.6	11.9	2.6	95.5	91.7	91.4	89.3	91.5	4.6	5.1	1.9	0.7	1.3	0.1	0.0
2	Akron	C	22,603	-25.3	84.7	59.5	3.5	67.3	81.5	77.1	68.9	66.2	12.3	18.2	4.3	9.3	5.8	5.9	2.3
2	Amherst	A	4,095	11.1	21.0	17.7	0.4	93.9	94.0	87.8	91.6	87.3	4.4	5.3	1.6	1.2	1.8	3.2	3.5
2	Aurora	A+	2,892	22.8	9.4	7.5	0.5	93.3	93.8	91.8	93.9	92.3	4.4	3.1	2.1	0.0	1.2	0.3	0.0
2	Avon	A+	3,965	140.2	6.8	11.5	1.3	94.6	92.4	92.2	92.6	94.0	5.7	3.3	1.9	1.1	0.6	0.3	0.1
2	Avon Lake	A	3,781	22.1	12.4	6.8	0.5	95.5	93.4	91.6	91.6	92.0	4.1	4.3	2.2	0.6	0.7	0.2	0.0
2	Berkshire	A	1,069	-22.3	21.9	<5.0	0.0	92.9	89.2	91.3	88.2	91.3	9.1	4.3	2.5	0.3	2.7	2.8	3.4
2	Brunswick	A	7,386	11.5	23.5	7.1	0.7	90.3	93.0	83.5	89.8	79.2	5.1	6.9	2.2	0.0	2.0	0.2	0.3
2	Buckeye	A	2,254	-4.2	25.3	<5.0	0.0	88.5	92.0	81.5	91.2	78.6	6.3	5.5	2.7	0.0	2.7	1.9	3.7
2	Chagrin Falls	A+	1,936	4.0	<5.0	<5.0	0.7	95.8	95.0	93.8	95.9	94.2	2.5	2.5	1.3	0.1	0.4	0.1	0.0
2	Chardon	A	3,144	6.7	17.6	<5.0	0.5	97.1	93.3	89.6	89.9	89.0	4.6	3.8	1.6	0.1	1.5	0.9	0.0
2	Clearview	B	1,761	22.2	38.8	51.7	0.9	87.7	86.6	80.7	86.2	79.1	9.9	12.2	3.5	3.9	3.3	3.9	30.3
2	Columbia	A+	1,024	-9.8	25.0	<5.0	0.0	88.2	89.4	85.8	89.0	84.3	5.4	8.3	2.1	0.8	3.6	0.6	9.4
2	Copley-Fairlawn	A	3,156	7.8	17.3	25.0	4.2	90.7	89.9	91.0	89.7	90.4	6.2	5.5	3.4	0.5	1.5	2.3	0.0
2	Crestwood	A	2,147	-21.7	25.4	<5.0	0.0	88.4	91.1	86.7	91.1	84.2	6.3	6.7	2.0	0.2	2.8	3.1	5.9
2	Cuyahoga Falls	A	4,721	-9.6	36.8	10.1	1.7	88.5	88.2	85.0	84.4	82.1	6.5	9.7	3.3	3.6	2.9	3.6	5.9
2	Elyria	B	6,938	-16.3	66.4	41.2	1.1	73.3	82.9	76.4	74.8	75.2	11.8	16.5	4.3	6.0	4.1	5.2	2.8
2	Fairport Harbor	B	526	-3.1	<5.0	11.2	0.0	89.1	77.5	68.6	78.5	68.6	14.4	10.0	3.7	0.0	3.9	1.5	26.2
2	Highland	A	3,221	33.0	8.7	<5.0	0.9	95.5	94.4	90.9	94.2	89.8	4.2	3.4	1.6	0.1	1.2	0.3	0.0
2	Hudson	A+	4,622	-10.9	<5.0	9.6	0.6	92.9	94.1	93.2	76.5	94.6	2.7	2.8	1.1	0.1	0.7	0.5	0.0
2	Kenston	A	3,141	3.8	11.7	7.8	0.3	95.6	94.5	94.6	94.7	95.4	3.0	2.4	1.0	0.0	0.5	0.4	0.0
2	Kent	B	3,417	-6.7	41.7	26.4	0.4	85.4	87.3	87.4	82.8	87.5	8.7	9.1	2.4	1.6	1.0	3.0	7.6
2	Keystone	B	1,610	-10.6	25.0	<5.0	0.0	91.3	92.1	83.2	92.2	77.8	8.1	6.3	3.4	0.5	2.4	4.5	7.0
2	Kirtland	A	1,172	19.1	<5.0	<5.0	0.0	97.6	93.9	90.3	94.1	91.0	2.3	1.5	0.5	0.1	0.4	0.0	0.0
2	Lorain	C	7,585	-26.3	84.5	72.0	3.4	58.8	77.2	71.8	60.4	53.9	19.8	25.6	8.5	13.1	4.5	7.8	2.1

Ring	District	Rating	Average daily enrollment #	Enrollment change since school year 2000–2001 %	Economic disadvantage %	Minority race or ethnicity %	Limited English Proficiency %	Grade 3 reading proficiency, spring assessment %	District cohort stability, Oct. 1, 2009– May 15, 2011 Grades K-7 %	Grades 8-11 %	Building cohort stability, Oct. 1, 2009– May 15, 2011 Grades K-7 %	Grades 8-11 %	Churn rate, Oct. 1, 2010– May 15, 2011 Grades K-8 %	Grades 9-12 %	Achievement test roll-up to state level for spring 2011 math test-takers, grades 3–8 %	Students residing in district but attending charter school In bricks and mortar public charter school %	In public e-charter school %	Inter-district open enrollment OUT: Residing in district but enrolling in other district %	IN: Attending district through open enrollment %
2	Medina	A	7,354	15.6	15.7	8.3	0.3	88.4	89.6	85.2	86.8	83.0	5.4	7.1	1.6	0.2	1.9	0.8	0.0
2	Mentor	A	8,156	-17.5	24.7	6.6	1.3	91.3	91.9	90.2	88.8	90.1	5.5	5.9	2.1	0.1	1.8	0.4	0.0
2	Midview	B	3,342	6.5	34.0	9.3	0.4	90.9	90.9	81.7	89.9	79.2	7.3	7.3	2.7	1.0	3.3	4.0	9.6
2	Newbury	A	631	-15.9	29.9	5.0	0.0	85.7	86.0	80.9	84.6	80.9	11.8	6.3	6.0	0.3	4.9	6.9	4.3
2	Nordonia Hills	A+	3,979	10.7	21.3	19.8	1.1	96.0	93.3	92.0	91.3	91.0	4.8	5.5	2.6	0.2	2.0	0.1	0.0
2	North Ridgeville	A+	3,726	14.2	23.9	9.9	1.1	89.1	89.7	82.9	89.5	76.5	5.8	8.5	2.6	1.1	2.6	1.4	0.2
2	Oberlin	B	1,108	3.1	44.4	48.5	1.4	80.5	86.1	74.7	85.3	71.4	8.5	10.4	2.8	1.5	3.1	7.2	5.9
2	Painesville City	C	2,979	14.1	75.9	69.7	30.5	65.3	80.7	73.1	73.8	71.6	20.8	43.6	7.3	1.1	2.6	5.2	2.5
2	Revere	A+	2,708	-3.9	8.2	9.7	0.8	92.9	93.8	92.9	93.7	94.4	3.2	3.2	0.7	0.1	1.6	1.0	0.0
2	Riverside	A	4,877	25.6	15.9	9.5	1.6	90.8	91.8	85.1	90.0	85.1	5.7	8.7	2.1	0.5	2.0	1.7	1.6
2	Sheffield-Sheffield Lake	A	1,875	1.4	47.2	14.3	0.0	73.0	84.6	78.0	83.9	73.1	7.8	8.1	2.2	1.7	2.7	1.3	7.6
2	Stow-Munroe Falls	A	5,345	-7.1	21.4	9.2	0.8	91.7	90.5	90.2	87.2	90.1	6.2	5.2	2.3	0.7	1.6	1.5	3.7
2	Streetsboro	B	2,095	12.1	41.0	18.5	0.7	84.0	83.9	75.7	82.8	74.8	9.4	10.4	3.4	0.2	3.2	3.3	0.5
2	Tallmadge	A	2,581	-2.9	21.7	10.3	1.2	93.3	90.3	89.9	90.4	90.1	6.9	5.4	2.8	1.3	2.7	2.8	0.0
2	Twinsburg	A+	4,237	14.6	15.7	36.2	1.8	95.7	92.3	91.4	91.9	91.6	5.1	6.9	2.6	0.2	1.2	0.1	0.0
2	West Geauga	A	2,199	-11.1	12.4	<5.0	0.6	92.6	94.2	95.8	94.2	95.6	3.8	2.6	1.7	0.0	1.0	0.2	4.0
2	Wickliffe	A	1,499	4.5	35.0	14.6	0.0	95.3	91.3	88.0	91.3	88.7	7.0	7.1	4.0	0.4	1.1	0.3	0.0
2	Willoughby-Eastlake	A	8,386	-3.4	33.3	10.5	2.1	88.0	90.1	91.0	84.4	80.7	6.8	6.1	2.7	0.4	1.5	0.2	0.0
2	Woodridge	A	1,985	14.4	36.9	29.7	1.9	78.4	86.5	84.6	86.7	84.6	12.5	11.2	4.4	1.0	1.7	4.5	5.6

Cleveland Area public school districts
alphabetical by name within Ring1 and Ring 2

District attributes

Appendix B. Cleveland Area public school buildings, school year 2010–2011 (unless noted)

Cleveland Area public school buildings alphabetical by district and school name		District attributes					Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Akron	Akron Alternative Academy	9-12	C	341	>95.0	75.3	25.8	168.2
Akron	Akron Early College High School	9-12	A	330	57.8	47.5	81.1	7.4
Akron	Akron Opportunity Center	6-8	F	125	>95.0	87.5	47.8	188.7
Akron	Barber Community Learning Center	K-6	D	288	>95.0	65.5	67.7	19.6
Akron	Barrett Elementary School	K-5	D	292	>95.0	84.1	55.5	43.6
Akron	Bettes Elementary School	K-5	C	211	>95.0	62.0	59.1	17.6
Akron	Betty Jane Community Learning Center	K-5	B	433	>95.0	15.2	80.8	11.1
Akron	Bridges Learning Center	K-8	C	118	>95.0	64.6	60.6	56.7
Akron	Buchtel High School	9-12	C	687	81.4	>95.0	60.2	33.6
Akron	Case Elementary School	K-5	C	384	>95.0	80.7	70.2	18.7
Akron	Crouse Community Learning Center	K-5	F	330	>95.0	>95.0	64.3	29.5
Akron	East Community Learning Center	7-12	C	1,088	82.5	76.6	57.0	35.8
Akron	Ellet High School	9-12	B	1,054	53.4	21.4	75.0	20.5
Akron	Essex Elementary School	K-5	C	215	>95.0	85.9	70.1	15.5
Akron	Findley Community Learning Center	K-5	C	416	>95.0	91.5	64.7	29.1
Akron	Firestone High School	9-12	B	1,237	46.1	59.8	81.4	15.3
Akron	Firestone Park Elementary School	K-5	B	349	>95.0	54.1	62.7	21.4
Akron	Forest Hill Community Learning Center	K-5	C	298	>95.0	46.7	65.0	20.9
Akron	Garfield High School	9-12	C	979	81.9	73.4	63.3	31.0
Akron	Glover Community Leanring Center	K-5	C	402	>95.0	71.5	69.6	31.3
Akron	Harris Elementary School	K-5	C	359	>95.0	52.1	59.8	30.0
Akron	Hatton Elementary School	K-5	B	510	>95.0	21.8	80.5	12.9
Akron	Helen Arnold Community Learning Center	K-5	D	297	>95.0	>95.0	58.7	26.8
Akron	Hill Community Learning Center	K-6	D	318	>95.0	73.7	54.9	24.0
Akron	Hyre Middle School	6-8	B	783	54.9	19.2	81.3	12.8
Akron	Innes Community Learning Center	6-8	D	672	>95.0	62.5	63.1	32.2
Akron	Jennings Community Learning Center	6-8	C	605	86.9	69.0	65.6	30.4
Akron	Judith A Resnik Community Learning Center	K-5	B	438	>95.0	51.3	78.7	9.1
Akron	Kenmore High School	9-12	C	822	81.6	58.3	62.6	33.7
Akron	Kent Middle School	6-8	C	627	86.8	70.1	65.9	37.1
Akron	King Elementary School	K-5	A	399	>95.0	39.5	83.0	5.5
Akron	Lawndale Elementary School	K-5	C	203	>95.0	29.7	69.4	21.2
Akron	Leggett Community Learning Center	K-5	B	321	>95.0	70.1	62.8	36.5
Akron	Litchfield Middle School	6-8	C	572	64.8	80.6	72.7	24.3
Akron	Mason Community Learning Center	K-6	C	306	>95.0	65.7	56.3	35.3
Akron	McEbright Elementary School	K-5	C	287	>95.0	83.3	50.4	57.4
Akron	Miller-South Visual Performing Arts	4-8	A	489	25.0	30.4	91.6	1.8
Akron	National Inventors Hall of Fame School, Center for STEM	5-8	A	289	42.1	44.8	90.9	2.4
Akron	North High School	9-12	C	681	79.3	67.5	57.4	39.3
Akron	Perkins Middle School	6-8	D	392	86.5	>95.0	64.5	38.8
Akron	Pfeiffer Elementary School	K-5	D	226	>95.0	36.5	61.3	24.0
Akron	Portage Path Community Learning Center	K-5	C	297	>95.0	91.7	63.4	31.4
Akron	Rankin Elementary School	K-5	D	199	>95.0	94.5	63.8	43.5
Akron	Rimer Community Learning Center	K-5	D	261	>95.0	30.6	68.6	18.0
Akron	Ritzman Community Learning Center	K-5	A	342	>95.0	15.6	78.4	12.4

District	School building	Grade range	Rating	Average daily enrollment #	Economic disadvantage %	Minority race or ethnicity %	Two-year building cohort stability %	One-year churn rate %
Cleveland Area public school buildings alphabetical by district and school name				District attributes			Mobility measures	
Akron	Robinson Community Learning Center	K-6	C	361	>95.0	83.0	61.5	59.1
Akron	Sam Salem Community Learning Center	K-5	C	272	>95.0	24.5	71.5	11.0
Akron	Schumacher Academy Elementary School	K-5	C	194	>95.0	>95.0	60.5	18.7
Akron	Seiberling Elementary School	K-6	D	495	>95.0	45.6	62.6	27.8
Akron	Smith Elementary School	K-5	C	163	>95.0	34.7	71.0	31.0
Akron	Voris Community Learning Center	K-5	C	333	>95.0	37.6	80.5	10.8
Akron	Windemere Elementary School	K-5	A	336	>95.0	17.3	78.9	10.2
Amherst	Amherst Junior High School	7-8	A	697	23.3	20.1	91.0	4.2
Amherst	Josiah Harris Elementary School	4	A	311	28.0	21.9	-	6.2
Amherst	Marion L Steele High School	9-12	A	1,443	16.9	14.8	87.3	5.3
Amherst	Powers Elementary School	2-3	A	562	24.7	18.2	92.8	6.6
Amherst	Shupe Elementary	PK-1	NA	407	19.8	19.6	88.9	6.6
Amherst	Walter G. Nord Middle School	5-6	A+	659	22.4	18.3	93.2	3.5
Aurora	Aurora High School	9-12	A	979	8.3	7.3	92.3	3.1
Aurora	Craddock/Miller Elementary School	PK-2	NA	540	9.6	9.1	90.8	5.3
Aurora	Harmon Middle School	6-8	A+	732	10.8	7.2	96.1	3.1
Aurora	Leighton Elementary School	3-5	A	641	9.2	7.0	94.1	5.0
Avon	Avon East Elementary School	1-2	NA	672	<5.0	11.3	93.9	5.7
Avon	Avon Heritage North Elementary School	5-6	A	616	10.7	12.0	93.5	5.0
Avon	Avon Heritage South Elementary School	3-4	A+	660	11.9	10.2	93.1	5.0
Avon	Avon High School	9-12	A	1,082	6.5	12.0	94.0	3.3
Avon	Avon Middle School	7-8	A+	611	5.8	12.1	89.7	4.4
Avon	Avon Village Elementary School	K	NA	280	<5.0	9.4	-	10.8
Avon Lake	Avon Lake High School	9-12	A	1,197	11.1	6.0	92.0	4.3
Avon Lake	Eastview Elementary School	K-4	A	350	8.5	6.1	90.5	3.9
Avon Lake	Erieview Elementary School	K-4	A	286	14.2	5.9	89.0	7.0
Avon Lake	Learwood Middle School	7-8	A	576	12.9	7.2	94.5	4.4
Avon Lake	Redwood Elementary School	K-4	A	498	10.7	6.0	91.0	2.5
Avon Lake	Troy Intermediate Elementary School	5-6	A	595	15.4	8.8	94.2	3.8
Avon Lake	Westview Elementary School	K-4	A	280	16.7	10.0	89.6	4.4
Bay Village	Bay High School	9-12	A	779	8.3	5.2	93.7	3.0
Bay Village	Bay Middle School	5-8	A	825	11.0	7.0	95.5	1.9
Bay Village	Normandy Elementary School	K-2	NA	465	7.6	6.5	93.1	3.6
Bay Village	Westerly Elementary School	3-4	A+	385	11.5	6.2	97.3	0.8
Beachwood	Beachwood High School	9-12	A	611	8.9	31.7	92.2	4.2
Beachwood	Beachwood Middle School	6-8	A	339	13.2	40.1	86.8	12.0
Beachwood	Bryden Elementary School	K-2	NA	298	10.6	47.4	89.8	10.0
Beachwood	Hilltop Elementary School	3-5	A	295	9.0	44.0	90.7	8.2
Bedford	Bedford High School	9-12	C	1,177	51.2	87.4	73.4	16.7
Bedford	Carylwood Intermediate School	4-6	C	401	60.1	89.3	80.3	16.0
Bedford	Central Primary School	K-3	A	524	72.7	90.9	67.1	19.2
Bedford	Columbus Intermediate School	4-6	C	381	73.5	93.5	74.7	18.8
Bedford	Glendale Primary School	PK-3	A	482	61.4	83.6	83.2	13.9
Bedford	Heskett Middle School	7-8	C	603	59.8	88.3	75.3	17.9
Berea	Berea High School	9-12	B	1,100	37.3	24.2	87.8	14.6
Berea	Big Creek Elementary School	K-5	A	735	29.5	16.7	86.6	8.6
Berea	Brookpark Memorial Elementary School	K-5	B	661	45.4	19.7	86.7	5.9
Berea	Brookview Elementary School	K-5	B	495	45.6	15.3	87.8	7.6
Berea	Ford Middle School	6-8	A	1,033	38.9	14.7	94.4	4.9
Berea	Frederick Roehm Middle School	6-8	A	631	40.3	26.3	89.0	14.3

Cleveland Area public school buildings alphabetical by district and school name		District attributes				Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Berea	Midpark High School	9-12	A	1,348	33.5	12.0	90.3	5.2
Berea	Parknoll Elementary School	K-5	A+	376	34.5	28.3	84.1	9.9
Berea	Riveredge Elementary School	K-5	B	158	51.4	46.7	83.5	12.0
Berea	Vivian L Smith Elementary School	K-5	A	482	33.6	16.9	88.6	8.7
Berkshire	Berkshire High School	7-12	A	580	17.4	<5.0	91.6	3.8
Berkshire	Burton Elementary School	PK-6	B	484	27.4	<5.0	87.2	11.4
Brecksville-Broadview Hts.	Brecksville-Broadview Heights High School	9-12	A	1,605	9.5	7.7	95.3	2.6
Brecksville-Broadview Hts.	Brecksville-Broadview Heights Middle School	6-8	A	1,095	11.6	11.1	95.9	2.6
Brecksville-Broadview Hts.	Central Elementary School	4-5	A+	627	15.8	14.7	92.6	2.7
Brecksville-Broadview Hts.	Chippewa Elementary School	K-3	A	334	11.1	14.0	92.9	4.3
Brecksville-Broadview Hts.	Highland Drive Elementary School	K-3	A	338	13.4	16.4	91.7	5.6
Brecksville-Broadview Hts.	Hilton Elementary School	K-3	A	290	11.1	13.9	88.8	4.1
Brooklyn	Brooklyn High School	9-12	A	505	42.2	30.2	82.7	9.5
Brooklyn	Brooklyn Middle School	6-8	B	360	52.2	33.4	93.5	5.5
Brooklyn	Brookridge Elementary School	K-5	B	591	51.9	31.5	87.7	9.1
Brunswick	Applewood Elementary School	K-5	A	462	30.9	9.3	87.0	11.0
Brunswick	Brunswick High School	9-12	A	2,502	19.9	5.7	79.2	6.9
Brunswick	Brunswick Memorial Elementary School	K-5	A+	418	28.8	6.4	86.7	10.6
Brunswick	C R Towslee Elementary School	K-5	A	522	32.0	8.4	85.5	10.6
Brunswick	Crestview Elementary School	K-5	A	364	15.7	5.3	91.9	6.2
Brunswick	Edwards Middle School	6-8	A	508	29.7	9.3	90.2	5.7
Brunswick	Hickory Ridge Elementary School	K-5	A	458	19.4	8.7	94.4	4.5
Brunswick	Huntington Elementary School	K-5	A+	485	28.1	10.0	88.4	6.8
Brunswick	Visintainer Middle School	6-8	A	538	24.4	9.0	89.8	5.8
Brunswick	Walter Kidder Elementary School	K-5	A	416	19.9	<5.0	90.6	4.5
Brunswick	Willetts Middle School	6-8	A	713	22.3	9.2	93.6	3.7
Buckeye-Medina County	Buckeye Primary School	K-3	A	590	26.7	<5.0	91.1	8.5
Buckeye-Medina County	Buckeye High School	9-12	A	741	22.1	<5.0	78.6	5.5
Buckeye-Medina County	Buckeye Intermediate School	4-6	A	559	29.1	<5.0	91.4	5.8
Buckeye-Medina County	Buckeye Junior High School	7-8	A	364	23.9	5.0	90.9	3.3
Chagrin Falls	Chagrin Falls High School	9-12	A	607	<5.0	<5.0	94.2	2.5
Chagrin Falls	Chagrin Falls Intermediate Elementary School	4-6	A+	481	<5.0	<5.0	96.2	2.5
Chagrin Falls	Chagrin Falls Middle School	7-8	A	311	<5.0	<5.0	94.1	2.2
Chagrin Falls	Gurney Elementary School	PK-3	A	537	<5.0	<5.0	96.3	2.6
Chardon	Chardon High School	9-12	A	1,091	15.3	<5.0	89.0	3.8
Chardon	Chardon Middle School	6-8	A	746	17.4	<5.0	94.8	4.4
Chardon	Hambden Elementary School	K-5	A	299	19.2	<5.0	90.4	4.0
Chardon	Maple Elementary School	K-5	A	278	18.0	<5.0	92.5	3.0
Chardon	Munson Elementary School	K-5	A	392	18.2	5.9	90.3	6.4
Chardon	Park Elementary School	K-5	A	326	23.4	6.7	78.7	6.2
Clearview	Clearview High School	9-12	B	590	58.8	50.8	79.1	12.2
Clearview	Durling Middle School	5-8	B	584	40.0	51.6	86.8	9.4
Clearview	Vincent Elementary School	PK-4	A	587	17.5	53.3	85.6	10.3
Cleveland	Adlai Stevenson School	K-8	D	265	>95.0	>95.0	59.5	29.2
Cleveland	Almira	K-8	D	386	>95.0	76.0	51.9	58.8
Cleveland	Andrew J Rickoff	PK-8	D	487	>95.0	>95.0	44.7	50.6
Cleveland	Anton Grdina	PK-8	D	330	>95.0	>95.0	39.6	61.1
Cleveland	Artemus Ward	PK-8	D	458	>95.0	66.2	60.3	36.9
Cleveland	Benjamin Franklin	PK-8	B	648	>95.0	42.9	67.3	26.4
Cleveland	Bolton	PK-8	F	388	>95.0	>95.0	58.7	37.6

				District attributes			Mobility measures	
Cleveland Area public school buildings alphabetical by district and school name								
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Cleveland	Buckeye-Woodland School	K-8	F	319	>95.0	>95.0	33.8	84.7
Cleveland	Buhrer	PK-8	C	320	>95.0	>95.0	85.7	7.0
Cleveland	Campus International School	K-2	NA	114	>95.0	77.7	-	27.6
Cleveland	Captain Arthur Roth	PK-8	D	287	>95.0	>95.0	59.3	27.1
Cleveland	Carl & Louis Stokes Central Academy	PK-8	F	544	>95.0	>95.0	54.4	37.2
Cleveland	Carl F Shuler	9	NA	360	>95.0	66.7	-	75.1
Cleveland	Case	PK-8	F	412	>95.0	85.1	49.5	47.1
Cleveland	Charles A Mooney School	K-8	F	742	>95.0	53.8	64.5	56.9
Cleveland	Charles Dickens School	K-8	F	425	>95.0	>95.0	46.7	44.9
Cleveland	Charles W Eliot School	PK-8	D	447	>95.0	>95.0	50.0	49.8
Cleveland	Clara E Westropp School	PK-8	C	515	>95.0	69.3	61.7	38.1
Cleveland	Clark School	K-8	B	553	>95.0	78.3	59.2	31.5
Cleveland	Cleveland School of Arts (Dike Campus)	PK-6	B	480	>95.0	>95.0	85.4	6.5
Cleveland	Cleveland School Of The Arts High School	7-12	B	634	>95.0	93.4	81.4	4.1
Cleveland	Collinwood High School	9-12	D	712	>95.0	>95.0	50.2	59.2
Cleveland	Daniel E Morgan School	PK-8	B	325	>95.0	>95.0	40.7	35.5
Cleveland	Denison	K-8	B	597	>95.0	65.7	52.9	26.9
Cleveland	Design Lab @ Jane Addams	9-11	B	215	>95.0	>95.0	60.9	23.0
Cleveland	Douglas MacArthur	PK-5	B	207	>95.0	63.8	70.9	8.6
Cleveland	Early Childhood Development	PK-3	B	122	>95.0	>95.0	59.8	5.5
Cleveland	East Clark	PK-8	F	389	>95.0	>95.0	28.4	38.1
Cleveland	East Technical High School	9-12	F	822	>95.0	>95.0	46.6	72.2
Cleveland	Emile B Desauze Elementary School	K-8	F	258	>95.0	>95.0	58.6	45.0
Cleveland	Euclid Park Elementary School	K-8	F	321	>95.0	>95.0	-	50.0
Cleveland	Franklin D. Roosevelt	PK-8	F	592	>95.0	>95.0	48.3	32.0
Cleveland	Fullerton School	K-8	F	407	>95.0	83.2	38.7	52.6
Cleveland	Garfield Elementary School	K-8	B	425	>95.0	54.0	63.2	14.4
Cleveland	Garrett Morgan Schl Of Science School	9-12	B	240	>95.0	74.8	78.1	21.3
Cleveland	Genesis Academy	6-11	F	152	>95.0	>95.0	19.9	70.1
Cleveland	George Washington Carver	PK-8	F	323	>95.0	>95.0	44.9	20.2
Cleveland	Giddings	PK-8	F	263	>95.0	>95.0	44.1	64.6
Cleveland	Ginn Academy	9-12	C	251	>95.0	>95.0	69.3	21.1
Cleveland	Glenville High School	9-12	D	985	>95.0	>95.0	49.3	52.4
Cleveland	H Barbara Booker Elementary School	K-8	D	430	>95.0	68.2	49.6	49.1
Cleveland	Hannah Gibbons-Nottingham Elementary School	PK-8	F	226	>95.0	>95.0	52.5	41.7
Cleveland	Harvey Rice Elementary School	K-8	F	422	>95.0	>95.0	48.6	38.9
Cleveland	Health Careers Center High School	9-12	C	277	>95.0	>95.0	75.8	9.1
Cleveland	Iowa-Maple Elementary School	PK-8	F	336	>95.0	>95.0	45.1	42.7
Cleveland	James Ford Rhodes High School	9-12	C	1,171	>95.0	58.8	60.0	35.0
Cleveland	Jane Addams Business Careers High School	9-12	C	380	>95.0	95.0	68.6	16.5
Cleveland	John Adams High School	9-12	F	1,121	>95.0	>95.0	49.7	55.4
Cleveland	John F Kennedy High School	9-12	F	975	>95.0	>95.0	48.3	59.7
Cleveland	John Hay Early College High School	9-12	A	225	>95.0	88.9	83.7	9.5
Cleveland	John Hay School of Architecture & Design	9-12	A	273	>95.0	>95.0	84.8	12.6
Cleveland	John Hay School of Science & Medicine	9-12	A	354	>95.0	90.4	88.3	3.9
Cleveland	John Marshall High School	9-12	C	1,213	>95.0	69.9	45.0	51.3
Cleveland	Joseph M Gallagher School	PK-8	F	654	>95.0	86.2	58.5	35.9
Cleveland	Kenneth W Clement	PK-5	C	168	>95.0	>95.0	60.1	20.9
Cleveland	Law & Municipal Careers @ MLK	9-12	F	273	>95.0	>95.0	74.2	17.2
Cleveland	Lincoln-West High School	9-12	F	1,301	>95.0	84.0	47.0	59.5

Cleveland Area public school buildings alphabetical by district and school name		Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
District attributes							**Mobility measures**	
District	School building			#	%	%	%	%
Cleveland	Louis Agassiz School	K-8	B	344	>95.0	65.8	50.3	38.5
Cleveland	Louisa May Alcott Elementary School	K-5	A	233	>95.0	62.4	67.4	25.1
Cleveland	Luis Munoz Marin School	K-8	F	796	>95.0	85.5	61.9	36.1
Cleveland	Marion C Seltzer Elementary School	K-8	D	535	>95.0	79.5	48.9	51.2
Cleveland	Marion-Sterling Elementary School	PK-8	F	503	>95.0	>95.0	58.3	42.3
Cleveland	Mary B Martin School	K-8	F	321	>95.0	>95.0	42.4	40.3
Cleveland	Mary M Bethune	K-8	D	363	>95.0	>95.0	56.8	40.5
Cleveland	Max S Hayes High School	9-12	C	510	>95.0	72.5	73.2	13.2
Cleveland	MC^2 STEM High School	9-11	A	214	>95.0	82.7	72.2	13.0
Cleveland	McKinley School	K-8	D	304	>95.0	58.2	52.2	45.7
Cleveland	Memorial School	PK-8	C	481	>95.0	>95.0	60.6	33.5
Cleveland	Michael R. White	K-8	F	447	>95.0	>95.0	49.5	39.3
Cleveland	Miles Park School	K-8	F	556	>95.0	92.0	56.0	45.7
Cleveland	Miles School	PK-8	F	365	>95.0	>95.0	50.4	43.6
Cleveland	Mound Elementary School	K-8	F	253	>95.0	75.3	44.2	67.7
Cleveland	Nathan Hale School	K-8	F	409	>95.0	>95.0	53.3	58.5
Cleveland	New Technology HS@East Tech	9-10	C	81	>95.0	>95.0	-	64.6
Cleveland	New Technology West	9-10	C	128	>95.0	74.4	-	33.8
Cleveland	Newton D Baker School	PK-8	C	463	>95.0	63.9	43.8	34.5
Cleveland	Oliver H Perry Elementary School	PK-8	D	388	>95.0	>95.0	64.7	28.6
Cleveland	Orchard School	PK-8	C	356	>95.0	77.2	56.8	40.2
Cleveland	Patrick Henry School	PK-8	F	331	>95.0	>95.0	51.1	48.2
Cleveland	Paul L Dunbar Elementary School @ Brooklawn	PK-8	D	192	>95.0	84.8	27.8	61.7
Cleveland	Paul Revere Elementary School	PK-8	D	441	>95.0	>95.0	53.4	53.1
Cleveland	Riverside School	K-8	B	537	>95.0	38.0	78.6	14.5
Cleveland	Robert H Jamison School	PK-8	F	397	>95.0	>95.0	48.7	40.7
Cleveland	Robinson G Jones Elementary School	PK-8	C	361	>95.0	62.7	50.5	44.1
Cleveland	Scranton School	K-8	D	433	>95.0	86.8	65.3	41.6
Cleveland	SuccessTech Academy School	9-12	C	227	>95.0	>95.0	74.9	15.1
Cleveland	Sunbeam	PK-8	F	236	>95.0	>95.0	59.1	25.6
Cleveland	Thomas Jefferson School	K-12	NA	188	>95.0	93.1	-	62.8
Cleveland	Tremont Montessori School	PK-8	B	452	>95.0	88.0	71.4	8.0
Cleveland	Union Elementary School	K-8	F	239	>95.0	91.3	39.6	64.9
Cleveland	Valley View Elementary School	PK-5	B	169	>95.0	68.4	63.3	19.1
Cleveland	Wade Park	PK-8	D	372	>95.0	>95.0	38.0	35.0
Cleveland	Walton School	K-8	C	576	>95.0	86.5	59.0	62.0
Cleveland	Warner Girls Leadership Academy	PK-5	C	276	>95.0	>95.0	75.3	4.2
Cleveland	Washington Park	9-12	D	140	>95.0	76.6	-	34.0
Cleveland	Watterson-Lake School	K-8	C	393	>95.0	67.9	46.0	57.8
Cleveland	Waverly Elementary School	K-8	D	383	>95.0	72.1	41.5	53.9
Cleveland	Whitney Young School	2-12	A+	401	>95.0	>95.0	80.5	8.1
Cleveland	Wilbur Wright School	PK-8	D	539	>95.0	67.2	52.2	46.9
Cleveland	William C Bryant Elementary School	PK-8	A	345	>95.0	35.9	64.6	8.5
Cleveland	Willow School	K-8	F	234	>95.0	76.2	59.8	33.0
Cleveland	Willson School	K-8	F	385	>95.0	>95.0	-	42.1
Cleveland	Woodland Hills School	K-8	F	345	>95.0	>95.0	57.5	47.2
Cleveland Hts.-University Hts.	Bellefaire	K-12	NA	88	74.3	68.1	32.0	124.4
Cleveland Hts.-University Hts.	Boulevard Elementary School	K-5	C	320	74.6	89.3	66.7	21.6
Cleveland Hts.-University Hts.	Canterbury Elementary School	K-5	D	380	56.3	75.8	71.3	18.2
Cleveland Hts.-University Hts.	Cleveland Heights High School	9-12	B	1,853	53.6	83.7	68.3	20.8

District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%

Cleveland Area public school buildings
alphabetical by district and school name

District	School building	Grade range	Rating	Average daily enrollment #	Economic disadvantage %	Minority race or ethnicity %	Two-year building cohort stability %	One-year churn rate %
Cleveland Hts.-University Hts.	Fairfax Elementary School	K-5	C	392	63.4	79.1	70.9	23.3
Cleveland Hts.-University Hts.	Frank L Wiley Middle School	6-8	B	412	70.1	92.2	75.5	15.1
Cleveland Hts.-University Hts.	Lauree P Gearity Elementary School	K-5	C	348	54.0	80.5	80.8	12.2
Cleveland Hts.-University Hts.	Monticello Middle School	6-8	D	437	73.7	95.0	73.7	19.3
Cleveland Hts.-University Hts.	Noble Elementary School	K-5	B	423	64.4	84.6	75.7	16.0
Cleveland Hts.-University Hts.	Oxford Elementary School	K-5	C	338	75.4	>95.0	73.2	19.3
Cleveland Hts.-University Hts.	Roxboro Elementary School	K-5	A+	364	51.2	63.0	75.3	14.8
Cleveland Hts.-University Hts.	Roxboro Middle School	6-8	C	554	62.6	77.3	78.6	16.9
Columbia	Columbia High School	9-12	A	389	18.8	<5.0	84.3	8.3
Columbia	Columbia Middle School	5-8	A+	342	29.0	6.2	93.0	5.8
Columbia	Copopa Elementary School	K-4	A	290	28.9	<5.0	85.4	4.8
Copley-Fairlawn	Arrowhead Primary Elementary School	K-4	A	328	19.6	14.2	92.3	5.8
Copley-Fairlawn	Copley High School	9-12	A	1,066	15.3	25.6	90.4	5.5
Copley-Fairlawn	Copley-Fairlawn Middle School	5-8	A	1,077	19.8	25.6	93.0	5.7
Copley-Fairlawn	Fort Island Primary Elementary School	K-4	A	388	13.4	25.3	85.5	6.9
Copley-Fairlawn	Herberich Primary Elementary School	PK-4	A	297	17.5	32.5	81.2	8.6
Crestwood	Crestwood High School	9-12	A	741	18.2	<5.0	84.2	6.8
Crestwood	Crestwood Intermediate School	3-5	A	447	32.2	<5.0	91.8	4.9
Crestwood	Crestwood Middle School	6-8	A	526	26.4	<5.0	92.0	6.6
Crestwood	Crestwood Primary School	PK-2	NA	419	30.4	<5.0	89.1	7.1
Crestwood	Crestwood/Larlham	SN	NA	14	<5.0	>95.0	-	7.7
Cuyahoga Falls	Bolich Middle School	6-8	B	677	48.0	11.8	88.2	7.3
Cuyahoga Falls	Cuyahoga Falls High School	9-12	A	1,529	30.1	9.5	82.1	9.7
Cuyahoga Falls	Elizabeth Price Elementary School	K-5	A	283	49.4	8.1	78.7	8.5
Cuyahoga Falls	Gordon Dewitt Elementary School	K-5	A	401	37.8	8.9	77.5	7.9
Cuyahoga Falls	Lincoln Elementary School	K-5	A	478	36.9	10.0	90.7	5.0
Cuyahoga Falls	Preston Elementary School	K-5	B	268	50.7	17.3	85.0	10.2
Cuyahoga Falls	Richardson Elementary School	K-5	A	377	33.8	11.0	86.2	5.0
Cuyahoga Falls	Roberts Middle School	6-8	B	472	33.2	8.1	87.9	7.1
Cuyahoga Falls	Silver Lake Elementary School	K-5	B	236	26.7	12.6	74.6	7.5
Cuyahoga Hts.	Cuyahoga Hts Elementary School	PK-5	A	381	24.6	8.5	92.4	1.3
Cuyahoga Hts.	Cuyahoga Hts High School	9-12	A	316	17.0	<5.0	96.3	1.3
Cuyahoga Hts.	Cuyahoga Hts Middle School	6-8	A	209	21.7	6.7	97.0	1.4
East Cleveland	Caledonia Elementary School	K-6	D	278	90.5	>95.0	66.4	30.2
East Cleveland	Chambers Elementary School	K-6	D	403	92.1	>95.0	64.1	31.6
East Cleveland	Heritage Middle School	7-8	D	455	90.9	>95.0	76.5	21.5
East Cleveland	Mayfair Elementary School	K-6	D	307	>95.0	>95.0	62.0	28.9
East Cleveland	Prospect Elementary School	K-6	C	175	93.2	>95.0	60.4	26.7
East Cleveland	Shaw High School	9-12	D	1,234	82.0	>95.0	61.6	22.9
East Cleveland	Superior Elementary School	PK-6	D	330	94.0	>95.0	57.8	24.8
Elyria	Crestwood Elementary School	1-5	B	324	>95.0	47.2	67.5	18.2
Elyria	Eastern Heights Middle School	6-8	B	557	65.2	40.6	79.6	16.6
Elyria	Ely Elementary School	K-5	B	500	70.8	30.6	73.9	21.3
Elyria	Elyria High School	9-12	B	2,112	52.1	39.0	75.2	16.5
Elyria	Franklin Elementary School	K-5	D	466	92.6	67.5	60.7	38.7
Elyria	Kindergarten Village Elementary School	K	NA	182	75.1	46.6	-	15.5
Elyria	Mckinley Elementary School	K-5	A	418	65.1	32.6	78.7	16.0
Elyria	Northwood Middle School	6-8	D	548	63.4	38.9	79.9	13.2
Elyria	Oakwood Elementary School	1-5	C	352	>95.0	55.9	74.7	24.4
Elyria	Prospect Elementary School	K-5	B	414	54.0	31.1	73.8	10.2

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				#	%	%	%	%
Elyria	Spring Valley	PK-K	NA	151	46.9	27.2	-	6.4
Elyria	Westwood Middle School	6-8	A	456	80.0	52.6	75.5	21.8
Elyria	Windsor Elementary School	K-5	B	457	61.1	32.0	83.6	10.7
Euclid	Euclid Central Middle School	6-8	B	611	70.8	88.6	76.6	20.0
Euclid	Euclid High School	9-12	C	2,156	56.1	80.8	72.8	16.5
Euclid	Forest Park Middle School	6-8	D	673	72.3	84.9	69.9	20.6
Euclid	Glenbrook Education Center	PK-8	NA	113	50.8	85.3	39.1	50.0
Euclid	Indian Hills Elementary School	K-5	C	252	76.3	>95.0	61.7	22.2
Euclid	Lincoln Elementary School	K-5	C	275	57.0	59.6	70.4	22.6
Euclid	Memorial Park Elementary School	K-5	F	359	77.1	90.5	54.8	31.1
Euclid	Roosevelt Elementary School	K-5	D	462	76.6	85.5	71.5	21.9
Euclid	Thomas Jefferson Elementary School	K-5	B	359	66.3	80.6	83.6	7.2
Euclid	Upson Elementary School	K-5	F	532	79.2	90.0	58.9	32.6
Fairport Harbor	Fairport Harding High School	6-12	C	285	<5.0	11.9	72.3	12.2
Fairport Harbor	Mckinley Elementary School	K-5	B	242	<5.0	10.5	78.0	14.1
Fairview Park	Fairview High School	9-12	A	599	22.6	10.6	88.2	4.7
Fairview Park	Fairview Park Early Education Learning Center	PK-K	NA	75	5.4	10.9	-	5.6
Fairview Park	Gilles-Sweet Elementary School	K-6	B	781	29.8	14.0	88.2	5.2
Fairview Park	Lewis F Mayer Middle School	7-8	A	246	30.0	17.1	91.3	5.3
Garfield Hts.	Elmwood Elementary School	K-3	C	365	69.3	64.3	73.9	24.3
Garfield Hts.	Garfield Heights High School	9-12	C	1,365	58.6	56.1	73.6	15.9
Garfield Hts.	Garfield Heights Middle School	6-8	C	913	67.9	60.8	79.9	17.3
Garfield Hts.	Maple Leaf Intermediate Elementary School	4-5	D	603	73.4	66.9	80.8	16.6
Garfield Hts.	William Foster Elementary School	K-3	A	577	62.3	61.6	76.1	21.8
Highland-Medina County	Granger Elementary School	PK-5	A	453	9.4	5.8	92.3	3.4
Highland-Medina County	Highland High School	9-12	A	1,095	7.2	<5.0	89.8	3.4
Highland-Medina County	Highland Middle School	6-8	A	821	9.6	<5.0	95.9	2.7
Highland-Medina County	Hinckley Elementary School	K-5	A	409	10.8	<5.0	94.3	6.7
Highland-Medina County	Sharon Elementary School	K-5	A	438	8.1	<5.0	93.5	5.4
Hudson	East Woods Elementary School	4-5	A+	714	<5.0	9.8	94.4	2.4
Hudson	Ellsworth Hill Elementary School	PK-3	NA	351	6.1	10.8	0.6	3.8
Hudson	Evamere Elementary School	K-1	NA	417	<5.0	10.0	88.9	3.7
Hudson	Hudson High School	9-12	A	1,629	<5.0	8.5	94.6	2.8
Hudson	Hudson Middle School	6-8	A+	1,183	<5.0	10.6	95.6	2.0
Hudson	McDowell Elementary School	3	A	328	5.0	9.8	-	3.7
Independence	Independence High School	9-12	A	432	10.3	<5.0	94.4	1.4
Independence	Independence Middle School	5-8	A	326	12.4	<5.0	95.9	1.5
Independence	Independence Primary Elementary School	PK-4	A	343	8.2	<5.0	96.4	4.4
Kenston	Gardiner Early Learning Center	PK-K	NA	160	8.1	9.4	-	6.1
Kenston	Kenston High School	9-12	A	1,063	11.7	6.5	95.4	2.4
Kenston	Kenston Intermediate School	4-5	A	474	10.8	10.0	93.2	1.7
Kenston	Kenston Middle School	6-8	A	751	12.9	7.6	94.7	2.4
Kenston	Timmons Elementary School	1-3	A	672	11.8	8.6	95.6	3.8
Kent	Davey Elementary School	PK-5	C	387	55.5	32.3	83.7	11.9
Kent	Franklin Elementary School	K-5	B	225	27.2	12.2	81.3	7.0
Kent	Holden Elementary School	K-5	B	229	66.8	35.3	78.1	12.3
Kent	Longcoy Elementary School	K-5	A+	289	43.7	26.1	81.3	7.2
Kent	Stanton Middle School	6-8	B	764	43.2	24.0	90.6	9.0
Kent	Theodore Roosevelt High School	9-12	A	1,306	32.4	26.1	87.5	9.1
Kent	Walls Elementary School	K-5	B	197	54.8	37.0	69.4	19.5

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				#	%	%		%	%
Keystone	Keystone Elementary School	K-4	A+	514	32.8	5.5		92.6	9.0
Keystone	Keystone High School	9-12	A	546	13.5	<5.0		77.8	6.3
Keystone	Keystone Middle School	5-8	B	537	29.2	5.8		91.9	7.0
Kirtland	Kirtland Elementary School	K-5	A	503	<5.0	<5.0		93.3	2.5
Kirtland	Kirtland High School	9-12	A	392	5.9	<5.0		91.0	1.5
Kirtland	Kirtland Middle School	6-8	A	268	<5.0	<5.0		96.1	1.5
Lakewood-Cuyahoga County	Emerson Elementary School	K-5	B	444	53.6	31.3		79.3	14.9
Lakewood-Cuyahoga County	Garfield Middle School	6-8	A	628	61.2	32.2		75.7	16.2
Lakewood-Cuyahoga County	Grant Elementary School	K-5	A	271	53.4	24.1		76.7	9.4
Lakewood-Cuyahoga County	Harding Middle School	6-8	B	647	43.5	19.2		84.1	11.5
Lakewood-Cuyahoga County	Harrison Elementary School	K-5	C	398	78.0	42.0		63.1	25.9
Lakewood-Cuyahoga County	Hayes Elementary School	K-5	B	375	42.9	17.7		84.0	9.8
Lakewood-Cuyahoga County	Horace Mann Elementary School	K-5	B	415	52.8	17.4		80.0	15.3
Lakewood-Cuyahoga County	Lakewood High School	9-12	A	1,802	40.9	23.4		75.5	16.5
Lakewood-Cuyahoga County	Lincoln Elementary School	K-5	A	391	34.6	18.5		81.0	10.9
Lakewood-Cuyahoga County	Roosevelt Elementary School	K-5	B	296	62.3	23.9		79.4	12.4
Lorain	Academic Enrichment Academy	1-12	F	580	81.2	77.8		16.8	68.4
Lorain	Frank Jacinto Elementary	K-5	D	268	>95.0	87.2		48.8	28.4
Lorain	Garfield Elementary School	PK-5	D	278	92.9	75.1		59.5	45.1
Lorain	General Johnnie Wilson Middle School	6-8	D	473	89.6	82.5		68.0	33.7
Lorain	Hawthorne Elementary School	K-5	C	344	91.9	64.4		38.5	52.2
Lorain	Helen Steiner Rice ES	PK-5	D	354	88.0	66.8		71.9	20.7
Lorain	Lakeview Elementary School	PK-6	B	387	72.1	69.0		79.8	7.5
Lorain	Larkmoor Elementary School	K-5	C	452	90.6	54.0		66.3	29.4
Lorain	Longfellow Middle School	6-8	C	467	89.4	61.9		65.9	28.7
Lorain	Lorain High School	9-12	B	1,904	75.0	68.0		59.9	19.4
Lorain	New Beginnings	3-12	F	162	69.6	81.5		-	198.3
Lorain	Palm Elementary School	K-5	D	345	94.9	80.5		70.0	21.2
Lorain	Stevan Dohanos Elementary School	K-5	B	289	>95.0	91.3		50.0	30.7
Lorain	Toni Wofford Morrison ES	PK-5	D	326	91.4	77.4		57.6	33.3
Lorain	Washington Elementary School	K-5	D	304	94.6	80.4		53.1	39.9
Lorain	Whittier Middle School	6-8	D	500	91.0	75.4		74.2	20.9
Maple Hts.	Dunham Elementary School	6	B	315	74.2	>95.0		0.0	19.2
Maple Hts.	Maple Heights High School	9-12	C	1,170	58.8	>95.0		72.5	23.7
Maple Hts.	Milkovich Middle School	7-8	B	588	72.0	>95.0		73.2	21.1
Maple Hts.	Raymond Elementary School	PK-1	NA	543	74.9	>95.0		69.1	21.3
Maple Hts.	Rockside Elementary School	2-3	C	577	80.3	>95.0		71.1	17.0
Maple Hts.	Stafford Elementary School	4-5	C	599	78.3	>95.0		79.7	18.5
Mayfield	Gates Mills Elementary School	K-5	A	122	14.8	38.9		81.6	16.4
Mayfield	Lander Elementary School	K-5	A	527	33.5	28.5		86.2	10.2
Mayfield	Mayfield Center Elementary School	K-5	A	367	23.0	30.1		84.8	7.8
Mayfield	Mayfield High School	8-12	A	1,995	16.3	25.7		89.8	7.9
Mayfield	Mayfield Middle School	6-7	A	561	21.3	24.2		76.0	5.4
Mayfield	Millridge Elementary School	K-5	A+	508	15.6	16.4		89.6	5.1
Mayfield	Millridge Hearing Center	PK-5	NA	60	22.3	32.3		88.0	4.5
Medina	A. I. Root Middle School	6-8	A	832	12.8	6.2		93.5	4.0
Medina	Claggett Middle School	6-8	A	940	18.6	9.4		88.4	5.7
Medina	Eliza Northrop Elementary	PK-5	A	441	19.8	10.7		80.9	10.2
Medina	Ella Canavan Elementary School	K-5	A	482	13.6	7.2		86.5	3.5
Medina	Garfield Elementary School	K-5	A	418	36.8	20.6		73.2	9.6

Cleveland Area public school buildings alphabetical by district and school name		District attributes					Mobility measures	
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				#	%	%	%	%
Medina	H G Blake Elementary School	K-5	A	523	13.1	<5.0	91.4	3.8
Medina	Heritage Elementary School	K-5	A	435	14.3	6.4	89.1	4.2
Medina	Medina High School	9-12	A	2,310	13.9	8.5	83.1	7.0
Medina	Ralph E. Waite Elementary	K-5	A+	506	6.8	6.3	89.1	6.1
Medina	Sidney Fenn Elementary School	K-5	A+	455	17.3	6.9	84.6	9.2
Mentor	Bellflower Elementary School	K-5	A	438	22.7	5.2	92.5	3.4
Mentor	Brentmoor Elementary School	PK-5	A	296	37.2	14.1	77.9	13.9
Mentor	Fairfax Elementary School	PK-5	A	294	24.5	11.3	89.6	6.4
Mentor	Garfield Elementary School	K-5	A	448	20.9	<5.0	89.1	4.7
Mentor	Headlands Elementary School	PK-5	A	180	45.6	5.3	83.4	5.4
Mentor	Hopkins Elementary School	K-5	A	527	17.9	7.6	92.4	5.1
Mentor	Lake Elementary School	K-5	B	312	53.1	14.0	76.3	17.5
Mentor	Memorial Middle School	6-8	A	720	19.7	6.8	91.8	4.3
Mentor	Mentor High School	9-12	A	2,743	21.6	6.2	90.1	5.9
Mentor	Orchard Hollow Elementary School	K-5	A	415	16.4	<5.0	93.0	2.9
Mentor	Rice Elementary School	K-5	A	306	27.1	<5.0	91.1	5.3
Mentor	Ridge Middle School	6-8	A	520	23.8	7.4	90.7	5.7
Mentor	Shore Middle School	6-8	A	674	32.8	<5.0	90.4	5.9
Mentor	Sterling Morton Elementary School	K-5	A	283	24.3	<5.0	84.0	7.8
Midview	Midview East Elementary School	5-6	B	530	35.4	8.3	93.8	6.3
Midview	Midview High School	9-12	A	1,188	29.1	7.8	79.2	7.3
Midview	Midview Middle School	7-8	B	549	33.1	10.5	89.0	7.9
Midview	Midview North Elementary School	K-4	B	516	39.8	9.9	88.7	6.9
Midview	Midview West Elementary School	K-4	A	537	40.1	11.1	89.6	8.5
Newbury	Newbury Elementary School	K-6	B	289	33.7	10.5	86.3	11.8
Newbury	Newbury High School	7-12	A	340	26.8	<5.0	80.3	8.1
Nordonia Hills	Ledgeview Elementary School	K-4	A	488	29.7	19.8	91.2	8.4
Nordonia Hills	Lee Eaton Elementary School	5-6	A+	546	20.3	18.7	93.8	4.8
Nordonia Hills	Nordonia High School	9-12	A	1,419	19.7	21.7	91.0	5.5
Nordonia Hills	Nordonia Middle School	7-8	A	669	22.7	22.3	95.6	4.8
Nordonia Hills	Northfield Elementary School	K-4	A+	443	17.1	23.0	88.7	4.1
Nordonia Hills	Rushwood Elementary School	K-4	A	413	20.7	9.8	87.8	2.9
North Olmsted	Birch Elementary School	K-3	A	366	46.6	13.6	84.4	13.1
North Olmsted	Butternut Elementary School	K-3	A	213	46.8	20.4	71.5	15.0
North Olmsted	Chestnut Intermediate Elementary School	4-6	A	292	34.4	10.4	90.4	4.1
North Olmsted	Forest Elementary School	K-3	A	205	40.9	10.2	93.3	8.4
North Olmsted	Maple Intermediate Elementary School	4-6	B	304	50.7	15.4	85.7	11.3
North Olmsted	North Olmsted High School	9-12	A	1,452	33.2	11.2	89.0	6.5
North Olmsted	North Olmsted Middle School	7-8	A+	623	39.9	13.3	86.7	7.0
North Olmsted	Pine School	4-6	B	380	38.4	17.5	85.4	9.5
North Olmsted	Spruce Elementary School	K-3	A	163	36.0	12.6	90.5	9.5
North Ridgeville	Lear North Elementary School	1	NA	323	24.9	8.3	-	7.6
North Ridgeville	Liberty Elementary School	2-5	A	586	29.1	8.9	89.4	5.6
North Ridgeville	North Ridgeville Education Ctr Elementary School	K	NA	136	8.4	6.7	-	6.6
North Ridgeville	North Ridgeville High School	9-12	A	1,107	21.2	10.5	76.5	8.5
North Ridgeville	North Ridgeville Middle School	6-8	B	906	25.8	10.9	91.5	4.8
North Ridgeville	Wilcox Elementary School	2-5	A+	623	25.5	10.8	87.0	7.2
North Royalton	Albion Elementary School	1-4	A	405	21.8	12.1	87.6	6.6
North Royalton	Early Childhood Center	PK-K	NA	84	21.1	13.8	-	7.0
North Royalton	North Royalton High School	9-12	A	1,646	13.7	8.3	91.0	4.1

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North Royalton	North Royalton Middle School	5-8	A	1,406	15.3	8.1	92.9	3.6
North Royalton	Royal View Elementary School	1-4	A	438	20.9	8.0	85.7	10.1
North Royalton	Valley Vista Elementary School	1-4	A+	390	12.3	9.5	91.7	3.1
Oberlin	Eastwood Elementary School	K-2	NA	224	47.3	48.3	81.3	9.5
Oberlin	Langston Middle School	6-8	B	262	42.4	48.1	85.9	9.6
Oberlin	Oberlin High School	9-12	A	376	37.0	45.5	71.4	10.4
Oberlin	Prospect Elementary School	3-5	A	245	55.3	55.4	88.8	6.5
Olmsted Falls	Falls-Lenox Primary Elementary School	1-3	A	842	18.5	9.0	91.0	6.3
Olmsted Falls	Olmsted Falls Early Childhood Center	PK-K	NA	130	12.6	9.1	-	8.5
Olmsted Falls	Olmsted Falls High School	9-12	A	1,181	15.8	7.2	92.8	5.8
Olmsted Falls	Olmsted Falls Intermediate Building	4-5	A+	623	16.9	9.3	90.8	4.7
Olmsted Falls	Olmsted Falls Middle School	6-8	A	863	18.3	8.0	94.8	4.4
Orange	Ballard Brady Middle School	6-8	A	487	15.1	32.9	95.1	2.5
Orange	Moreland Hills Elementary School	K-5	A+	899	13.8	33.5	94.4	4.7
Orange	Orange High School	9-12	A	743	13.8	34.7	89.3	34.1
Painesville City	Chestnut Elementary School	K-5	C	535	78.7	64.1	70.0	21.3
Painesville City	Elm Street Elementary School	K-5	D	472	80.8	78.9	68.3	32.2
Painesville City	Harvey High School	9-12	C	743	74.6	69.6	71.6	30.7
Painesville City	Heritage Middle School	6-8	C	632	77.6	72.8	82.0	23.5
Painesville City	Maple Elementary School	K-5	C	530	73.3	68.3	75.2	24.5
Parma	Col John Glenn Elementary School	K-6	B	347	30.9	11.9	84.5	7.8
Parma	Dentzler Elementary School	K-6	A	411	47.6	8.2	75.2	11.1
Parma	Green Valley Elementary School	K-6	A	440	27.4	7.2	90.8	6.0
Parma	Greenbriar Middle School	7-8	B	638	48.5	14.8	82.4	13.2
Parma	Hillside Middle School	7-8	A	515	33.5	8.9	87.6	8.1
Parma	James E Hanna Elementary School	K-6	C	258	68.7	35.0	62.1	27.2
Parma	John Muir Elementary School	K-6	C	516	61.4	16.1	81.2	13.5
Parma	Normandy High School	9-12	A	1,231	20.9	6.5	89.1	8.5
Parma	Parma High School	9-12	B	1,451	40.6	9.8	75.8	13.2
Parma	Parma Park Elementary School	K-6	A+	429	39.0	12.1	85.9	7.9
Parma	Pearl Road Elementary School	K-6	B	369	47.7	12.0	83.0	8.7
Parma	Pleasant Valley Elementary School	K-6	A	549	44.4	14.2	79.5	11.2
Parma	Renwood Elementary School	K-6	B	347	49.6	7.1	81.0	11.2
Parma	Ridge-Brook Elementary School	K-6	B	341	54.2	17.1	74.4	20.3
Parma	Shiloh Middle School	7-8	A	680	54.8	12.1	89.3	8.9
Parma	State Road Elementary School	K-6	B	455	56.5	11.5	78.4	16.1
Parma	Thoreau Park Elementary School	K-6	C	685	57.2	11.3	78.8	15.0
Parma	Valley Forge High School	9-12	A	1,448	39.8	13.4	79.2	9.6
Revere	Bath Elementary School	4-5	A+	435	9.2	10.9	94.1	3.2
Revere	Hillcrest Elementary School	K-3	A	659	7.6	11.9	94.3	3.1
Revere	Revere High School	9-12	A	946	7.3	8.8	94.4	3.2
Revere	Revere Middle School	6-8	A	668	9.4	8.2	92.9	3.1
Richmond Hts.	Richmond Heights Elementary School	K-6	C	413	58.6	90.5	62.8	18.8
Richmond Hts.	Richmond Heights Middle School	6-8	C	211	55.9	88.0	-	15.5
Richmond Hts.	Richmond Heights Secondary School	7-12	B	265	42.0	88.1	58.7	18.8
Riverside-Lake County	Buckeye Elementary School	K-5	A	416	14.2	14.6	91.6	3.2
Riverside-Lake County	Clyde C Hadden Elementary School	K-5	A	254	24.1	23.9	82.9	13.4
Riverside-Lake County	Hale Road Elementary School	PK-5	A	438	17.4	9.2	89.6	9.3
Riverside-Lake County	Henry F Lamuth Middle School	6-7	A	777	19.3	10.4	93.4	6.4
Riverside-Lake County	Leroy Elementary School	K-5	A	281	10.0	<5.0	91.4	3.7

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Riverside-Lake County	Madison Avenue Elementary School	K-5	A	348	11.6	9.1	88.6	3.2
Riverside-Lake County	Melridge Elementary School	K-5	A	421	7.1	9.8	89.6	4.6
Riverside-Lake County	Riverside Jr/Sr High School	8-12	A	1,938	17.0	7.5	85.1	8.1
Rocky River	Goldwood Primary Elementary School	K-2	NA	464	10.4	10.3	92.8	4.8
Rocky River	Kensington Intermediate Elementary School	3-5	A+	556	10.1	8.4	94.1	2.9
Rocky River	Rocky River High School	9-12	A	878	10.8	6.5	93.5	3.7
Rocky River	Rocky River Middle School	6-8	A+	632	13.2	8.9	95.9	2.5
Shaker Hts.	Boulevard Elementary School	K-4	A	360	28.5	62.9	80.9	12.3
Shaker Hts.	Fernway Elementary School	K-4	A	357	28.1	49.3	86.8	6.5
Shaker Hts.	Lomond Elementary School	K-4	A	481	39.8	74.8	77.4	12.9
Shaker Hts.	Mercer Elementary School	K-4	A	407	31.7	58.4	85.2	7.1
Shaker Hts.	Onaway Elementary School	K-4	A	378	21.0	45.6	83.5	6.1
Shaker Hts.	Shaker Hts High School	9-12	B	1,693	28.9	65.5	82.5	10.9
Shaker Hts.	Shaker Hts Middle School	7-8	C	867	36.4	67.0	87.6	11.5
Shaker Hts.	Woodbury Elementary School	5-6	A	846	34.7	63.5	89.8	7.0
Sheffield-Sheffield Lake	Brookside High School	9-12	B	660	43.0	14.2	73.1	8.1
Sheffield-Sheffield Lake	Forestlawn Elementary School	5	A	156	53.9	12.8	-	8.3
Sheffield-Sheffield Lake	Knollwood Elementary School	PK-1	NA	216	35.1	15.3	77.6	10.9
Sheffield-Sheffield Lake	Sheffield Middle School	6-8	A	447	48.9	15.5	86.9	7.0
Sheffield-Sheffield Lake	Tennyson Elementary School	2-3	B	274	56.4	15.7	83.2	6.9
Sheffield-Sheffield Lake	William Barr Elementary School	4	A	123	55.5	13.5	-	5.6
Solon	Arthur Road Elementary School	PK-4	A	477	8.7	35.5	90.5	3.7
Solon	Dorothy E Lewis Elementary School	K-4	A	373	8.4	24.5	90.0	4.3
Solon	Grace L Roxbury Elementary School	K-4	A	409	13.0	46.2	88.5	7.9
Solon	Orchard Middle School	5-6	A	781	10.6	32.5	94.7	4.0
Solon	Parkside Elementary School	K-4	A	421	8.7	31.2	89.7	3.5
Solon	Solon High School	9-12	A	1,743	7.8	31.6	94.6	2.9
Solon	Solon Middle School	7-8	A	838	9.9	29.9	95.3	3.3
South Euclid-Lyndhurst	Adrian Elementary School	K-3	A	308	64.3	84.9	81.6	9.3
South Euclid-Lyndhurst	Brush High School	9-12	B	1,520	42.9	67.8	88.5	9.4
South Euclid-Lyndhurst	Greenview Upper Elementary School	4-6	C	866	56.1	75.3	83.6	8.7
South Euclid-Lyndhurst	Memorial Junior High School	7-8	C	682	54.0	73.3	85.3	7.6
South Euclid-Lyndhurst	Rowland Elementary School	PK-3	A	411	54.8	73.4	76.2	15.1
South Euclid-Lyndhurst	Sunview Elementary School	K-3	A	387	24.9	32.5	76.5	10.6
Stow-Munroe Falls	Echo Hills Elementary School	K-4	B	347	27.6	12.5	82.6	7.7
Stow-Munroe Falls	Fishcreek Elementary School	K-4	A+	334	15.6	13.1	88.8	6.6
Stow-Munroe Falls	Highland Elementary School	K-4	A	325	18.9	8.9	83.8	6.6
Stow-Munroe Falls	Indian Trail Elementary School	K-4	A	304	34.0	10.9	84.6	11.1
Stow-Munroe Falls	Kimpton Middle School	7-8	A	859	21.7	8.9	91.6	5.0
Stow-Munroe Falls	Lakeview Elementary School	5-6	A	854	22.7	8.1	91.0	5.7
Stow-Munroe Falls	Riverview Elementary School	K-4	A+	265	23.5	6.6	82.2	9.3
Stow-Munroe Falls	Stow-Munroe Falls High School	9-12	A	1,749	17.7	8.4	90.1	5.2
Stow-Munroe Falls	Woodland Elementary School	K-4	A	307	25.6	11.0	87.8	6.8
Streetsboro	Campus Intermediate Elementary School	2-3	A	355	60.6	19.7	83.3	7.9
Streetsboro	Henry Defer Intermediate Elementary School	4-6	B	451	40.4	21.4	81.2	8.0
Streetsboro	Streetsboro High School	9-12	B	637	35.6	17.5	74.8	10.4
Streetsboro	Streetsboro Middle School	7-8	B	325	42.2	19.5	86.3	10.8
Streetsboro	Wait Primary Elementary School	K-1	NA	327	30.1	15.0	81.9	11.5
Strongsville	Albion Middle School	7-8	A	523	18.6	11.9	91.9	5.0
Strongsville	Center Middle School	7-8	A	591	16.1	14.8	93.5	3.4

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Strongsville	Chapman Elementary School	K-6	A	415	15.1	10.6	90.6	3.5
Strongsville	Drake Elementary School	K-6	A	418	26.2	19.3	87.7	11.3
Strongsville	Kinsner Elementary School	K-6	B	585	10.3	13.9	92.0	2.6
Strongsville	Muraski Elementary School	K-6	A	533	17.0	14.3	93.7	8.1
Strongsville	Strongsville High School	9-12	A	2,449	12.8	10.9	92.6	4.3
Strongsville	Surrarrer Elementary School	K-6	B	342	9.8	12.3	90.9	4.1
Strongsville	Whitney Elementary School	K-6	A	352	15.2	11.3	89.6	4.4
Strongsville	Zellers Elementary School	K-6	B	306	26.7	11.6	79.5	5.5
Tallmadge	Dunbar Elementary School	2-3	A	341	26.4	13.7	87.7	8.2
Tallmadge	Munroe Elementary School	4-5	B	404	25.0	11.6	95.8	5.5
Tallmadge	Overdale Elementary School	K-1	NA	324	20.0	15.3	90.2	7.6
Tallmadge	Tallmadge High School	9-12	A	869	17.3	6.9	90.1	5.4
Tallmadge	Tallmadge Middle School	6-8	A+	644	23.8	10.7	89.1	6.7
Twinsburg	Geo G Dodge Elementary School	4-6	A+	995	16.8	37.8	94.4	3.7
Twinsburg	R B Chamberlin Middle School	7-8	A	654	14.2	37.3	94.1	5.5
Twinsburg	Samuel Bissell Elementary School	2-3	A	608	14.6	34.8	91.4	4.1
Twinsburg	Twinsburg High School	9-12	A	1,359	17.0	35.8	91.6	6.9
Twinsburg	Wilcox Elementary School	K-1	NA	622	13.3	35.6	84.6	7.6
Warrensville Hts.	Eastwood Elementary School	3-4	D	302	70.5	>95.0	-	22.4
Warrensville Hts.	John Dewey Elementary School	PK-2	NA	516	43.0	>95.0	-	19.2
Warrensville Hts.	Warrensville Heights High School	9-12	D	607	65.5	>95.0	58.1	27.3
Warrensville Hts.	Warrensville Heights Middle School	5-8	F	531	64.9	>95.0	63.6	26.3
West Geauga	Robert C Lindsey Elementary School	K-5	A+	421	15.1	<5.0	92.1	3.5
West Geauga	West Geauga High School	9-12	A	846	9.0	<5.0	95.6	2.6
West Geauga	West Geauga Middle School	6-8	A	519	14.8	5.6	96.5	3.1
West Geauga	Westwood Elementary School	K-5	A+	406	13.8	<5.0	94.1	4.8
Westlake	Bassett Elementary School	K-4	A	369	15.0	18.5	83.0	8.2
Westlake	Dover Elementary School	K-4	A	339	13.6	11.7	88.3	6.6
Westlake	Hilliard Elementary School	K-4	A	277	12.5	15.5	89.9	5.5
Westlake	Holly Lane Elementary School	K-4	A	305	16.3	11.0	87.5	7.4
Westlake	Lee Burneson Middle School	7-8	A	669	13.9	8.3	93.3	3.9
Westlake	Parkside Elementary School	5-6	A	596	17.5	13.5	93.9	2.7
Westlake	Westlake High School	9-12	A	1,332	14.0	10.9	91.5	5.1
Wickliffe	Wickliffe Elementary School	PK-4	A	576	39.1	15.1	90.6	7.3
Wickliffe	Wickliffe High School	9-12	A	460	26.3	12.8	88.7	7.1
Wickliffe	Wickliffe Middle School	5-8	A	463	38.6	16.5	92.3	6.6
Willoughby-Eastlake	Eastlake Middle School	6-8	B	481	36.0	6.9	90.2	8.0
Willoughby-Eastlake	Edison Elementary School	PK-5	A	643	33.8	24.5	74.6	12.8
Willoughby-Eastlake	Grant Elementary School	K-5	A+	441	33.3	9.4	84.2	9.3
Willoughby-Eastlake	Jefferson Elementary School	PK-5	A	448	28.3	<5.0	89.4	4.9
Willoughby-Eastlake	Longfellow Elementary School	PK-5	A	418	42.5	7.6	84.7	6.6
Willoughby-Eastlake	Mckinley Elementary School	PK-5	A	268	54.0	19.3	74.7	16.0
Willoughby-Eastlake	North High School	9-12	A	1,399	30.6	5.6	91.0	5.8
Willoughby-Eastlake	Royalview Elementary School	PK-5	A+	857	38.6	6.6	87.6	7.7
Willoughby-Eastlake	South High School	9-12	A	1,382	24.3	12.7	87.4	7.7
Willoughby-Eastlake	Washington Elementary School	PK-5	A	514	34.2	9.7	83.9	8.8
Willoughby-Eastlake	Willoughby Middle School	5-8	A	902	31.9	15.3	83.6	9.4
Willoughby-Eastlake	Willowick Middle School	6-9	B	574	41.7	7.4	57.6	9.0
Woodridge	Woodridge High School	9-12	A	617	30.1	24.4	84.6	11.2
Woodridge	Woodridge Intermediate Elementary School	3-5	A	446	41.5	32.2	87.7	11.6

Cleveland Area Profile **|** Ohio Student Mobility Research Project

Cleveland Area public school buildings alphabetical by district and school name		Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
District	School building			#	%	%	%	%
Woodridge	Woodridge Middle School	6-8	B	499	39.0	32.9	88.6	10.2
Woodridge	Woodridge Primary Elementary School	K-2	NA	423	39.4	31.4	83.1	16.8
Akron	Akron Alternative Academy	9-12	C	341	>95.0	75.3	25.8	168.2
Akron	Akron Early College High School	9-12	A	330	57.8	47.5	81.1	7.4
Akron	Akron Opportunity Center	6-8	F	125	>95.0	87.5	47.8	188.7
Akron	Barber Community Learning Center	K-6	D	288	>95.0	65.5	67.7	19.6
Akron	Barrett Elementary School	K-5	D	292	>95.0	84.1	55.5	43.6
Akron	Bettes Elementary School	K-5	C	211	>95.0	62.0	59.1	17.6
Akron	Betty Jane Community Learning Center	K-5	B	433	>95.0	15.2	80.8	11.1
Akron	Bridges Learning Center	K-8	C	118	>95.0	64.6	60.6	56.7
Akron	Buchtel High School	9-12	C	687	81.4	>95.0	60.2	33.6
Akron	Case Elementary School	K-5	C	384	>95.0	80.7	70.2	18.7
Akron	Crouse Community Learning Center	K-5	F	330	>95.0	>95.0	64.3	29.5
Akron	East Community Learning Center	7-12	C	1,088	82.5	76.6	57.0	35.8
Akron	Ellet High School	9-12	B	1,054	53.4	21.4	75.0	20.5
Akron	Essex Elementary School	K-5	C	215	>95.0	85.9	70.1	15.5
Akron	Findley Community Learning Center	K-5	C	416	>95.0	91.5	64.7	29.1
Akron	Firestone High School	9-12	B	1,237	46.1	59.8	81.4	15.3
Akron	Firestone Park Elementary School	K-5	B	349	>95.0	54.1	62.7	21.4
Akron	Forest Hill Community Learning Center	K-5	C	298	>95.0	46.7	65.0	20.9
Akron	Garfield High School	9-12	C	979	81.9	73.4	63.3	31.0
Akron	Glover Community Leanring Center	K-5	C	402	>95.0	71.5	69.6	31.3
Akron	Harris Elementary School	K-5	C	359	>95.0	52.1	59.8	30.0
Akron	Hatton Elementary School	K-5	B	510	>95.0	21.8	80.5	12.9
Akron	Helen Arnold Community Learning Center	K-5	D	297	>95.0	>95.0	58.7	26.8
Akron	Hill Community Learning Center	K-6	D	318	>95.0	73.7	54.9	24.0
Akron	Hyre Middle School	6-8	B	783	54.9	19.2	81.3	12.8
Akron	Innes Community Learning Center	6-8	D	672	>95.0	62.5	63.1	32.2
Akron	Jennings Community Learning Center	6-8	C	605	86.9	69.0	65.6	30.4
Akron	Judith A Resnik Community Learning Center	K-5	B	438	>95.0	51.3	78.7	9.1
Akron	Kenmore High School	9-12	C	822	81.6	58.3	62.6	33.7
Akron	Kent Middle School	6-8	C	627	86.8	70.1	65.9	37.1
Akron	King Elementary School	K-5	A	399	>95.0	39.5	83.0	5.5
Akron	Lawndale Elementary School	K-5	C	203	>95.0	29.7	69.4	21.2
Akron	Leggett Community Learning Center	K-5	B	321	>95.0	70.1	62.8	36.5
Akron	Litchfield Middle School	6-8	C	572	64.8	80.6	72.7	24.3
Akron	Mason Community Learning Center	K-6	C	306	>95.0	65.7	56.3	35.3
Akron	McEbright Elementary School	K-5	C	287	>95.0	83.3	50.4	57.4
Akron	Miller-South Visual Performing Arts	4-8	A	489	25.0	30.4	91.6	1.8
Akron	National Inventors Hall of Fame School, Center for STEM	5-8	A	289	42.1	44.8	90.9	2.4
Akron	North High School	9-12	C	681	79.3	67.5	57.4	39.3
Akron	Perkins Middle School	6-8	D	392	86.5	>95.0	64.5	38.8
Akron	Pfeiffer Elementary School	K-5	D	226	>95.0	36.5	61.3	24.0
Akron	Portage Path Community Learning Center	K-5	C	297	>95.0	91.7	63.4	31.4
Akron	Rankin Elementary School	K-5	D	199	>95.0	94.5	63.8	43.5
Akron	Rimer Community Learning Center	K-5	D	261	>95.0	30.6	68.6	18.0
Akron	Ritzman Community Learning Center	K-5	A	342	>95.0	15.6	78.4	12.4
Akron	Robinson Community Learning Center	K-6	C	361	>95.0	83.0	61.5	59.1
Akron	Sam Salem Community Learning Center	K-5	C	272	>95.0	24.5	71.5	11.0

Cleveland Area public school buildings alphabetical by district and school name		District attributes					Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Akron	Schumacher Academy Elementary School	K-5	C	194	>95.0	>95.0	60.5	18.7
Akron	Seiberling Elementary School	K-6	D	495	>95.0	45.6	62.6	27.8
Akron	Smith Elementary School	K-5	C	163	>95.0	34.7	71.0	31.0
Akron	Voris Community Learning Center	K-5	C	333	>95.0	37.6	80.5	10.8
Akron	Windemere Elementary School	K-5	A	336	>95.0	17.3	78.9	10.2
Amherst	Amherst Junior High School	7-8	A	697	23.3	20.1	91.0	4.2
Amherst	Josiah Harris Elementary School	4	A	311	28.0	21.9	-	6.2
Amherst	Marion L Steele High School	9-12	A	1,443	16.9	14.8	87.3	5.3
Amherst	Powers Elementary School	2-3	A	562	24.7	18.2	92.8	6.6
Amherst	Shupe Elementary	PK-1	NA	407	19.8	19.6	88.9	6.6
Amherst	Walter G. Nord Middle School	5-6	A+	659	22.4	18.3	93.2	3.5
Aurora	Aurora High School	9-12	A	979	8.3	7.3	92.3	3.1
Aurora	Craddock/Miller Elementary School	PK-2	NA	540	9.6	9.1	90.8	5.3
Aurora	Harmon Middle School	6-8	A+	732	10.8	7.2	96.1	3.1
Aurora	Leighton Elementary School	3-5	A	641	9.2	7.0	94.1	5.0
Avon	Avon East Elementary School	1-2	NA	672	<5.0	11.3	93.9	5.7
Avon	Avon Heritage North Elementary School	5-6	A	616	10.7	12.0	93.5	5.0
Avon	Avon Heritage South Elementary School	3-4	A+	660	11.9	10.2	93.1	5.0
Avon	Avon High School	9-12	A	1,082	6.5	12.0	94.0	3.3
Avon	Avon Middle School	7-8	A+	611	5.8	12.1	89.7	4.4
Avon	Avon Village Elementary School	K	NA	280	<5.0	9.4	-	10.8
Avon Lake	Avon Lake High School	9-12	A	1,197	11.1	6.0	92.0	4.3
Avon Lake	Eastview Elementary School	K-4	A	350	8.5	6.1	90.5	3.9
Avon Lake	Erieview Elementary School	K-4	A	286	14.2	5.9	89.0	7.0
Avon Lake	Learwood Middle School	7-8	A	576	12.9	7.2	94.5	4.4
Avon Lake	Redwood Elementary School	K-4	A	498	10.7	6.0	91.0	2.5
Avon Lake	Troy Intermediate Elementary School	5-6	A	595	15.4	8.8	94.2	3.8
Avon Lake	Westview Elementary School	K-4	A	280	16.7	10.0	89.6	4.4
Bay Village	Bay High School	9-12	A	779	8.3	5.2	93.7	3.0
Bay Village	Bay Middle School	5-8	A	825	11.0	7.0	95.5	1.9
Bay Village	Normandy Elementary School	K-2	NA	465	7.6	6.5	93.1	3.6
Bay Village	Westerly Elementary School	3-4	A+	385	11.5	6.2	97.3	0.8
Beachwood	Beachwood High School	9-12	A	611	8.9	31.7	92.2	4.2
Beachwood	Beachwood Middle School	6-8	A	339	13.2	40.1	86.8	12.0
Beachwood	Bryden Elementary School	K-2	NA	298	10.6	47.4	89.8	10.0
Beachwood	Hilltop Elementary School	3-5	A	295	9.0	44.0	90.7	8.2
Bedford	Bedford High School	9-12	C	1,177	51.2	87.4	73.4	16.7
Bedford	Carylwood Intermediate School	4-6	C	401	60.1	89.3	80.3	16.0
Bedford	Central Primary School	K-3	A	524	72.7	90.9	67.1	19.2
Bedford	Columbus Intermediate School	4-6	C	381	73.5	93.5	74.7	18.8
Bedford	Glendale Primary School	PK-3	A	482	61.4	83.6	83.2	13.9
Bedford	Heskett Middle School	7-8	C	603	59.8	88.3	75.3	17.9
Berea	Berea High School	9-12	B	1,100	37.3	24.2	87.8	14.6
Berea	Big Creek Elementary School	K-5	A	735	29.5	16.7	86.6	8.6
Berea	Brookpark Memorial Elementary School	K-5	B	661	45.4	19.7	86.7	5.9
Berea	Brookview Elementary School	K-5	B	495	45.6	15.3	87.8	7.6
Berea	Ford Middle School	6-8	A	1,033	38.9	14.7	94.4	4.9
Berea	Frederick Roehm Middle School	6-8	A	631	40.3	26.3	89.0	14.3
Berea	Midpark High School	9-12	A	1,348	33.5	12.0	90.3	5.2
Berea	Parknoll Elementary School	K-5	A+	376	34.5	28.3	84.1	9.9

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Berea	Riveredge Elementary School	K-5	B	158	51.4	46.7	83.5	12.0
Berea	Vivian L Smith Elementary School	K-5	A	482	33.6	16.9	88.6	8.7
Berkshire	Berkshire High School	7-12	A	580	17.4	<5.0	91.6	3.8
Berkshire	Burton Elementary School	PK-6	B	484	27.4	<5.0	87.2	11.4
Brecksville-Broadview Hts.	Brecksville-Broadview Heights High School	9-12	A	1,605	9.5	7.7	95.3	2.6
Brecksville-Broadview Hts.	Brecksville-Broadview Heights Middle School	6-8	A	1,095	11.6	11.1	95.9	2.6
Brecksville-Broadview Hts.	Central Elementary School	4-5	A+	627	15.8	14.7	92.6	2.7
Brecksville-Broadview Hts.	Chippewa Elementary School	K-3	A	334	11.1	14.0	92.9	4.3
Brecksville-Broadview Hts.	Highland Drive Elementary School	K-3	A	338	13.4	16.4	91.7	5.6
Brecksville-Broadview Hts.	Hilton Elementary School	K-3	A	290	11.1	13.9	88.8	4.1
Brooklyn	Brooklyn High School	9-12	A	505	42.2	30.2	82.7	9.5
Brooklyn	Brooklyn Middle School	6-8	B	360	52.2	33.4	93.5	5.5
Brooklyn	Brookridge Elementary School	K-5	B	591	51.9	31.5	87.7	9.1
Brunswick	Applewood Elementary School	K-5	A	462	30.9	9.3	87.0	11.0
Brunswick	Brunswick High School	9-12	A	2,502	19.9	5.7	79.2	6.9
Brunswick	Brunswick Memorial Elementary School	K-5	A+	418	28.8	6.4	86.7	10.6
Brunswick	C R Towslee Elementary School	K-5	A	522	32.0	8.4	85.5	10.6
Brunswick	Crestview Elementary School	K-5	A	364	15.7	5.3	91.9	6.2
Brunswick	Edwards Middle School	6-8	A	508	29.7	9.3	90.2	5.7
Brunswick	Hickory Ridge Elementary School	K-5	A	458	19.4	8.7	94.4	4.5
Brunswick	Huntington Elementary School	K-5	A+	485	28.1	10.0	88.4	6.8
Brunswick	Visintainer Middle School	6-8	A	538	24.4	9.0	89.8	5.8
Brunswick	Walter Kidder Elementary School	K-5	A	416	19.9	<5.0	90.6	4.5
Brunswick	Willetts Middle School	6-8	A	713	22.3	9.2	93.6	3.7
Buckeye-Medina County	Buckeye Primary School	K-3	A	590	26.7	<5.0	91.1	8.5
Buckeye-Medina County	Buckeye High School	9-12	A	741	22.1	<5.0	78.6	5.5
Buckeye-Medina County	Buckeye Intermediate School	4-6	A	559	29.1	<5.0	91.4	5.8
Buckeye-Medina County	Buckeye Junior High School	7-8	A	364	23.9	5.0	90.9	3.3
Chagrin Falls	Chagrin Falls High School	9-12	A	607	<5.0	<5.0	94.2	2.5
Chagrin Falls	Chagrin Falls Intermediate Elementary School	4-6	A+	481	<5.0	<5.0	96.2	2.5
Chagrin Falls	Chagrin Falls Middle School	7-8	A	311	<5.0	<5.0	94.1	2.2
Chagrin Falls	Gurney Elementary School	PK-3	A	537	<5.0	<5.0	96.3	2.6
Chardon	Chardon High School	9-12	A	1,091	15.3	<5.0	89.0	3.8
Chardon	Chardon Middle School	6-8	A	746	17.4	<5.0	94.8	4.4
Chardon	Hambden Elementary School	K-5	A	299	19.2	<5.0	90.4	4.0
Chardon	Maple Elementary School	K-5	A	278	18.0	<5.0	92.5	3.0
Chardon	Munson Elementary School	K-5	A	392	18.2	5.9	90.3	6.4
Chardon	Park Elementary School	K-5	A	326	23.4	6.7	78.7	6.2
Clearview	Clearview High School	9-12	B	590	58.8	50.8	79.1	12.2
Clearview	Durling Middle School	5-8	B	584	40.0	51.6	86.8	9.4
Clearview	Vincent Elementary School	PK-4	A	587	17.5	53.3	85.6	10.3
Cleveland	Adlai Stevenson School	K-8	D	265	>95.0	>95.0	59.5	29.2
Cleveland	Almira	K-8	D	386	>95.0	76.0	51.9	58.8
Cleveland	Andrew J Rickoff	PK-8	D	487	>95.0	>95.0	44.7	50.6
Cleveland	Anton Grdina	PK-8	D	330	>95.0	>95.0	39.6	61.1
Cleveland	Artemus Ward	PK-8	D	458	>95.0	66.2	60.3	36.9
Cleveland	Benjamin Franklin	PK-8	B	648	>95.0	42.9	67.3	26.4
Cleveland	Bolton	PK-8	F	388	>95.0	>95.0	58.7	37.6
Cleveland	Buckeye-Woodland School	K-8	F	319	>95.0	>95.0	33.8	84.7
Cleveland	Buhrer	PK-8	C	320	>95.0	>95.0	85.7	7.0

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Cleveland	Campus International School	K-2	NA	114	>95.0	77.7	-	27.6
Cleveland	Captain Arthur Roth	PK-8	D	287	>95.0	>95.0	59.3	27.1
Cleveland	Carl & Louis Stokes Central Academy	PK-8	F	544	>95.0	>95.0	54.4	37.2
Cleveland	Carl F Shuler	9	NA	360	>95.0	66.7	-	75.1
Cleveland	Case	PK-8	F	412	>95.0	85.1	49.5	47.1
Cleveland	Charles A Mooney School	K-8	F	742	>95.0	53.8	64.5	56.9
Cleveland	Charles Dickens School	K-8	F	425	>95.0	>95.0	46.7	44.9
Cleveland	Charles W Eliot School	PK-8	D	447	>95.0	>95.0	50.0	49.8
Cleveland	Clara E Westropp School	PK-8	C	515	>95.0	69.3	61.7	38.1
Cleveland	Clark School	K-8	B	553	>95.0	78.3	59.2	31.5
Cleveland	Cleveland School of Arts (Dike Campus)	PK-6	B	480	>95.0	>95.0	85.4	6.5
Cleveland	Cleveland School Of The Arts High School	7-12	B	634	>95.0	93.4	81.4	4.1
Cleveland	Collinwood High School	9-12	D	712	>95.0	>95.0	50.2	59.2
Cleveland	Daniel E Morgan School	PK-8	B	325	>95.0	>95.0	40.7	35.5
Cleveland	Denison	K-8	B	597	>95.0	65.7	52.9	26.9
Cleveland	Design Lab @ Jane Addams	9-11	B	215	>95.0	>95.0	60.9	23.0
Cleveland	Douglas MacArthur	PK-5	B	207	>95.0	63.8	70.9	8.6
Cleveland	Early Childhood Development	PK-3	B	122	>95.0	>95.0	59.8	5.5
Cleveland	East Clark	PK-8	F	389	>95.0	>95.0	28.4	38.1
Cleveland	East Technical High School	9-12	F	822	>95.0	>95.0	46.6	72.2
Cleveland	Emile B Desauze Elementary School	K-8	F	258	>95.0	>95.0	58.6	45.0
Cleveland	Euclid Park Elementary School	K-8	F	321	>95.0	>95.0	-	50.0
Cleveland	Franklin D. Roosevelt	PK-8	F	592	>95.0	>95.0	48.3	32.0
Cleveland	Fullerton School	K-8	F	407	>95.0	83.2	38.7	52.6
Cleveland	Garfield Elementary School	K-8	B	425	>95.0	54.0	63.2	14.4
Cleveland	Garrett Morgan Schl Of Science School	9-12	B	240	>95.0	74.8	78.1	21.3
Cleveland	Genesis Academy	6-11	F	152	>95.0	>95.0	19.9	70.1
Cleveland	George Washington Carver	PK-8	F	323	>95.0	>95.0	44.9	20.2
Cleveland	Giddings	PK-8	F	263	>95.0	>95.0	44.1	64.6
Cleveland	Ginn Academy	9-12	C	251	>95.0	>95.0	69.3	21.1
Cleveland	Glenville High School	9-12	D	985	>95.0	>95.0	49.3	52.4
Cleveland	H Barbara Booker Elementary School	K-8	D	430	>95.0	68.2	49.6	49.1
Cleveland	Hannah Gibbons-Nottingham Elementary School	PK-8	F	226	>95.0	>95.0	52.5	41.7
Cleveland	Harvey Rice Elementary School	K-8	F	422	>95.0	>95.0	48.6	38.9
Cleveland	Health Careers Center High School	9-12	C	277	>95.0	>95.0	75.8	9.1
Cleveland	Iowa-Maple Elementary School	PK-8	F	336	>95.0	>95.0	45.1	42.7
Cleveland	James Ford Rhodes High School	9-12	C	1,171	>95.0	58.8	60.0	35.0
Cleveland	Jane Addams Business Careers High School	9-12	C	380	>95.0	95.0	68.6	16.5
Cleveland	John Adams High School	9-12	F	1,121	>95.0	>95.0	49.7	55.4
Cleveland	John F Kennedy High School	9-12	F	975	>95.0	>95.0	48.3	59.7
Cleveland	John Hay Early College High School	9-12	A	225	>95.0	88.9	83.7	9.5
Cleveland	John Hay School of Architecture & Design	9-12	A	273	>95.0	>95.0	84.8	12.6
Cleveland	John Hay School of Science & Medicine	9-12	A	354	>95.0	90.4	88.3	3.9
Cleveland	John Marshall High School	9-12	C	1,213	>95.0	69.9	45.0	51.3
Cleveland	Joseph M Gallagher School	PK-8	F	654	>95.0	86.2	58.5	35.9
Cleveland	Kenneth W Clement	PK-5	C	168	>95.0	>95.0	60.1	20.9
Cleveland	Law & Municipal Careers @ MLK	9-12	F	273	>95.0	>95.0	74.2	17.2
Cleveland	Lincoln-West High School	9-12	F	1,301	>95.0	84.0	47.0	59.5
Cleveland	Louis Agassiz School	K-8	B	344	>95.0	65.8	50.3	38.5
Cleveland	Louisa May Alcott Elementary School	K-5	A	233	>95.0	62.4	67.4	25.1

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Cleveland	Luis Munoz Marin School	K-8	F	796	>95.0	85.5	61.9	36.1
Cleveland	Marion C Seltzer Elementary School	K-8	D	535	>95.0	79.5	48.9	51.2
Cleveland	Marion-Sterling Elementary School	PK-8	F	503	>95.0	>95.0	58.3	42.3
Cleveland	Mary B Martin School	K-8	F	321	>95.0	>95.0	42.4	40.3
Cleveland	Mary M Bethune	K-8	D	363	>95.0	>95.0	56.8	40.5
Cleveland	Max S Hayes High School	9-12	C	510	>95.0	72.5	73.2	13.2
Cleveland	MC^2 STEM High School	9-11	A	214	>95.0	82.7	72.2	13.0
Cleveland	McKinley School	K-8	D	304	>95.0	58.2	52.2	45.7
Cleveland	Memorial School	PK-8	C	481	>95.0	>95.0	60.6	33.5
Cleveland	Michael R. White	K-8	F	447	>95.0	>95.0	49.5	39.3
Cleveland	Miles Park School	K-8	F	556	>95.0	92.0	56.0	45.7
Cleveland	Miles School	PK-8	F	365	>95.0	>95.0	50.4	43.6
Cleveland	Mound Elementary School	K-8	F	253	>95.0	75.3	44.2	67.7
Cleveland	Nathan Hale School	K-8	F	409	>95.0	>95.0	53.3	58.5
Cleveland	New Technology HS@East Tech	9-10	C	81	>95.0	>95.0	-	64.6
Cleveland	New Technology West	9-10	C	128	>95.0	74.4	-	33.8
Cleveland	Newton D Baker School	PK-8	C	463	>95.0	63.9	43.8	34.5
Cleveland	Oliver H Perry Elementary School	PK-8	D	388	>95.0	>95.0	64.7	28.6
Cleveland	Orchard School	PK-8	C	356	>95.0	77.2	56.8	40.2
Cleveland	Patrick Henry School	PK-8	F	331	>95.0	>95.0	51.1	48.2
Cleveland	Paul L Dunbar Elementary School @ Brooklawn	PK-8	D	192	>95.0	84.8	27.8	61.7
Cleveland	Paul Revere Elementary School	PK-8	D	441	>95.0	>95.0	53.4	53.1
Cleveland	Riverside School	K-8	B	537	>95.0	38.0	78.6	14.5
Cleveland	Robert H Jamison School	PK-8	F	397	>95.0	>95.0	48.7	40.7
Cleveland	Robinson G Jones Elementary School	PK-8	C	361	>95.0	62.7	50.5	44.1
Cleveland	Scranton School	K-8	D	433	>95.0	86.8	65.3	41.6
Cleveland	SuccessTech Academy School	9-12	C	227	>95.0	>95.0	74.9	15.1
Cleveland	Sunbeam	PK-8	F	236	>95.0	>95.0	59.1	25.6
Cleveland	Thomas Jefferson School	K-12	NA	188	>95.0	93.1	-	62.8
Cleveland	Tremont Montessori School	PK-8	B	452	>95.0	88.0	71.4	8.0
Cleveland	Union Elementary School	K-8	F	239	>95.0	91.3	39.6	64.9
Cleveland	Valley View Elementary School	PK-5	B	169	>95.0	68.4	63.3	19.1
Cleveland	Wade Park	PK-8	D	372	>95.0	>95.0	38.0	35.0
Cleveland	Walton School	K-8	C	576	>95.0	86.5	59.0	62.0
Cleveland	Warner Girls Leadership Academy	PK-5	C	276	>95.0	>95.0	75.3	4.2
Cleveland	Washington Park	9-12	D	140	>95.0	76.6	-	34.0
Cleveland	Watterson-Lake School	K-8	C	393	>95.0	67.9	46.0	57.8
Cleveland	Waverly Elementary School	K-8	D	383	>95.0	72.1	41.5	53.9
Cleveland	Whitney Young School	2-12	A+	401	>95.0	>95.0	80.5	8.1
Cleveland	Wilbur Wright School	PK-8	D	539	>95.0	67.2	52.2	46.9
Cleveland	William C Bryant Elementary School	PK-8	A	345	>95.0	35.9	64.6	8.5
Cleveland	Willow School	K-8	F	234	>95.0	76.2	59.8	33.0
Cleveland	Willson School	K-8	F	385	>95.0	>95.0	-	42.1
Cleveland	Woodland Hills School	K-8	F	345	>95.0	>95.0	57.5	47.2
Cleveland Hts.-University Hts.	Bellefaire	K-12	NA	88	74.3	68.1	32.0	124.4
Cleveland Hts.-University Hts.	Boulevard Elementary School	K-5	C	320	74.6	89.3	66.7	21.6
Cleveland Hts.-University Hts.	Canterbury Elementary School	K-5	D	380	56.3	75.8	71.3	18.2
Cleveland Hts.-University Hts.	Cleveland Heights High School	9-12	B	1,853	53.6	83.7	68.3	20.8
Cleveland Hts.-University Hts.	Fairfax Elementary School	K-5	C	392	63.4	79.1	70.9	23.3
Cleveland Hts.-University Hts.	Frank L Wiley Middle School	6-8	B	412	70.1	92.2	75.5	15.1

District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Cleveland Hts.-University Hts.	Lauree P Gearity Elementary School	K-5	C	348	54.0	80.5	80.8	12.2
Cleveland Hts.-University Hts.	Monticello Middle School	6-8	D	437	73.7	95.0	73.7	19.3
Cleveland Hts.-University Hts.	Noble Elementary School	K-5	B	423	64.4	84.6	75.7	16.0
Cleveland Hts.-University Hts.	Oxford Elementary School	K-5	C	338	75.4	>95.0	73.2	19.3
Cleveland Hts.-University Hts.	Roxboro Elementary School	K-5	A+	364	51.2	63.0	75.3	14.8
Cleveland Hts.-University Hts.	Roxboro Middle School	6-8	C	554	62.6	77.3	78.6	16.9
Columbia	Columbia High School	9-12	A	389	18.8	<5.0	84.3	8.3
Columbia	Columbia Middle School	5-8	A+	342	29.0	6.2	93.0	5.8
Columbia	Copopa Elementary School	K-4	A	290	28.9	<5.0	85.4	4.8
Copley-Fairlawn	Arrowhead Primary Elementary School	K-4	A	328	19.6	14.2	92.3	5.8
Copley-Fairlawn	Copley High School	9-12	A	1,066	15.3	25.6	90.4	5.5
Copley-Fairlawn	Copley-Fairlawn Middle School	5-8	A	1,077	19.8	25.6	93.0	5.7
Copley-Fairlawn	Fort Island Primary Elementary School	K-4	A	388	13.4	25.3	85.5	6.9
Copley-Fairlawn	Herberich Primary Elementary School	PK-4	A	297	17.5	32.5	81.2	8.6
Crestwood	Crestwood High School	9-12	A	741	18.2	<5.0	84.2	6.8
Crestwood	Crestwood Intermediate School	3-5	A	447	32.2	<5.0	91.8	4.9
Crestwood	Crestwood Middle School	6-8	A	526	26.4	<5.0	92.0	6.6
Crestwood	Crestwood Primary School	PK-2	NA	419	30.4	<5.0	89.1	7.1
Crestwood	Crestwood/Larlham	SN	NA	14	<5.0	>95.0	-	7.7
Cuyahoga Falls	Bolich Middle School	6-8	B	677	48.0	11.8	88.2	7.3
Cuyahoga Falls	Cuyahoga Falls High School	9-12	A	1,529	30.1	9.5	82.1	9.7
Cuyahoga Falls	Elizabeth Price Elementary School	K-5	A	283	49.4	8.1	78.7	8.5
Cuyahoga Falls	Gordon Dewitt Elementary School	K-5	A	401	37.8	8.9	77.5	7.9
Cuyahoga Falls	Lincoln Elementary School	K-5	A	478	36.9	10.0	90.7	5.0
Cuyahoga Falls	Preston Elementary School	K-5	B	268	50.7	17.3	85.0	10.2
Cuyahoga Falls	Richardson Elementary School	K-5	A	377	33.8	11.0	86.2	5.0
Cuyahoga Falls	Roberts Middle School	6-8	B	472	33.2	8.1	87.9	7.1
Cuyahoga Falls	Silver Lake Elementary School	K-5	B	236	26.7	12.6	74.6	7.5
Cuyahoga Hts.	Cuyahoga Hts Elementary School	PK-5	A	381	24.6	8.5	92.4	1.3
Cuyahoga Hts.	Cuyahoga Hts High School	9-12	A	316	17.0	<5.0	96.3	1.3
Cuyahoga Hts.	Cuyahoga Hts Middle School	6-8	A	209	21.7	6.7	97.0	1.4
East Cleveland	Caledonia Elementary School	K-6	D	278	90.5	>95.0	66.4	30.2
East Cleveland	Chambers Elementary School	K-6	D	403	92.1	>95.0	64.1	31.6
East Cleveland	Heritage Middle School	7-8	D	455	90.9	>95.0	76.5	21.5
East Cleveland	Mayfair Elementary School	K-6	D	307	>95.0	>95.0	62.0	28.9
East Cleveland	Prospect Elementary School	K-6	C	175	93.2	>95.0	60.4	26.7
East Cleveland	Shaw High School	9-12	D	1,234	82.0	>95.0	61.6	22.9
East Cleveland	Superior Elementary School	PK-6	D	330	94.0	>95.0	57.8	24.8
Elyria	Crestwood Elementary School	1-5	B	324	>95.0	47.2	67.5	18.2
Elyria	Eastern Heights Middle School	6-8	B	557	65.2	40.6	79.6	16.6
Elyria	Ely Elementary School	K-5	B	500	70.8	30.6	73.9	21.3
Elyria	Elyria High School	9-12	B	2,112	52.1	39.0	75.2	16.5
Elyria	Franklin Elementary School	K-5	D	466	92.6	67.5	60.7	38.7
Elyria	Kindergarten Village Elementary School	K	NA	182	75.1	46.6	-	15.5
Elyria	Mckinley Elementary School	K-5	A	418	65.1	32.6	78.7	16.0
Elyria	Northwood Middle School	6-8	D	548	63.4	38.9	79.9	13.2
Elyria	Oakwood Elementary School	1-5	C	352	>95.0	55.9	74.7	24.4
Elyria	Prospect Elementary School	K-5	B	414	54.0	31.1	73.8	10.2
Elyria	Spring Valley	PK-K	NA	151	46.9	27.2	-	6.4
Elyria	Westwood Middle School	6-8	A	456	80.0	52.6	75.5	21.8

District	School building	Grade range	Rating	Average daily enrollment #	Economic disadvantage %	Minority race or ethnicity %	Two-year building cohort stability %	One-year churn rate %
Elyria	Windsor Elementary School	K-5	B	457	61.1	32.0	83.6	10.7
Euclid	Euclid Central Middle School	6-8	B	611	70.8	88.6	76.6	20.0
Euclid	Euclid High School	9-12	C	2,156	56.1	80.8	72.8	16.5
Euclid	Forest Park Middle School	6-8	D	673	72.3	84.9	69.9	20.6
Euclid	Glenbrook Education Center	PK-8	NA	113	50.8	85.3	39.1	50.0
Euclid	Indian Hills Elementary School	K-5	C	252	76.3	>95.0	61.7	22.2
Euclid	Lincoln Elementary School	K-5	C	275	57.0	59.6	70.4	22.6
Euclid	Memorial Park Elementary School	K-5	F	359	77.1	90.5	54.8	31.1
Euclid	Roosevelt Elementary School	K-5	D	462	76.6	85.5	71.5	21.9
Euclid	Thomas Jefferson Elementary School	K-5	B	359	66.3	80.6	83.6	7.2
Euclid	Upson Elementary School	K-5	F	532	79.2	90.0	58.9	32.6
Fairport Harbor	Fairport Harding High School	6-12	C	285	<5.0	11.9	72.3	12.2
Fairport Harbor	Mckinley Elementary School	K-5	B	242	<5.0	10.5	78.0	14.1
Fairview Park	Fairview High School	9-12	A	599	22.6	10.6	88.2	4.7
Fairview Park	Fairview Park Early Education Learning Center	PK-K	NA	75	5.4	10.9	-	5.6
Fairview Park	Gilles-Sweet Elementary School	K-6	B	781	29.8	14.0	88.2	5.2
Fairview Park	Lewis F Mayer Middle School	7-8	A	246	30.0	17.1	91.3	5.3
Garfield Hts.	Elmwood Elementary School	K-3	C	365	69.3	64.3	73.9	24.3
Garfield Hts.	Garfield Heights High School	9-12	C	1,365	58.6	56.1	73.6	15.9
Garfield Hts.	Garfield Heights Middle School	6-8	C	913	67.9	60.8	79.9	17.3
Garfield Hts.	Maple Leaf Intermediate Elementary School	4-5	D	603	73.4	66.9	80.8	16.6
Garfield Hts.	William Foster Elementary School	K-3	A	577	62.3	61.6	76.1	21.8
Highland-Medina County	Granger Elementary School	PK-5	A	453	9.4	5.8	92.3	3.4
Highland-Medina County	Highland High School	9-12	A	1,095	7.2	<5.0	89.8	3.4
Highland-Medina County	Highland Middle School	6-8	A	821	9.6	<5.0	95.9	2.7
Highland-Medina County	Hinckley Elementary School	K-5	A	409	10.8	<5.0	94.3	6.7
Highland-Medina County	Sharon Elementary School	K-5	A	438	8.1	<5.0	93.5	5.4
Hudson	East Woods Elementary School	4-5	A+	714	<5.0	9.8	94.4	2.4
Hudson	Ellsworth Hill Elementary School	PK-3	NA	351	6.1	10.8	-	3.8
Hudson	Evamere Elementary School	K-1	NA	417	<5.0	10.0	88.9	3.7
Hudson	Hudson High School	9-12	A	1,629	<5.0	8.5	94.6	2.8
Hudson	Hudson Middle School	6-8	A+	1,183	<5.0	10.6	95.6	2.0
Hudson	McDowell Elementary School	3	A	328	5.0	9.8	-	3.7
Independence	Independence High School	9-12	A	432	10.3	<5.0	94.4	1.4
Independence	Independence Middle School	5-8	A	326	12.4	<5.0	95.9	1.5
Independence	Independence Primary Elementary School	PK-4	A	343	8.2	<5.0	96.4	4.4
Kenston	Gardiner Early Learning Center	PK-K	NA	160	8.1	9.4	-	6.1
Kenston	Kenston High School	9-12	A	1,063	11.7	6.5	95.4	2.4
Kenston	Kenston Intermediate School	4-5	A	474	10.8	10.0	93.2	1.7
Kenston	Kenston Middle School	6-8	A	751	12.9	7.6	94.7	2.4
Kenston	Timmons Elementary School	1-3	A	672	11.8	8.6	95.6	3.8
Kent	Davey Elementary School	PK-5	C	387	55.5	32.3	83.7	11.9
Kent	Franklin Elementary School	K-5	B	225	27.2	12.2	81.3	7.0
Kent	Holden Elementary School	K-5	B	229	66.8	35.3	78.1	12.3
Kent	Longcoy Elementary School	K-5	A+	289	43.7	26.1	81.3	7.2
Kent	Stanton Middle School	6-8	B	764	43.2	24.0	90.6	9.0
Kent	Theodore Roosevelt High School	9-12	A	1,306	32.4	26.1	87.5	9.1
Kent	Walls Elementary School	K-5	B	197	54.8	37.0	69.4	19.5
Keystone	Keystone Elementary School	K-4	A+	514	32.8	5.5	92.6	9.0
Keystone	Keystone High School	9-12	A	546	13.5	<5.0	77.8	6.3

District	School building	Grade range	Rating	Average daily enrollment #	Economic disadvantage %	Minority race or ethnicity %	Two-year building cohort stability %	One-year churn rate %
Keystone	Keystone Middle School	5-8	B	537	29.2	5.8	91.9	7.0
Kirtland	Kirtland Elementary School	K-5	A	503	<5.0	<5.0	93.3	2.5
Kirtland	Kirtland High School	9-12	A	392	5.9	<5.0	91.0	1.5
Kirtland	Kirtland Middle School	6-8	A	268	<5.0	<5.0	96.1	1.5
Lakewood-Cuyahoga County	Emerson Elementary School	K-5	B	444	53.6	31.3	79.3	14.9
Lakewood-Cuyahoga County	Garfield Middle School	6-8	A	628	61.2	32.2	75.7	16.2
Lakewood-Cuyahoga County	Grant Elementary School	K-5	A	271	53.4	24.1	76.7	9.4
Lakewood-Cuyahoga County	Harding Middle School	6-8	B	647	43.5	19.2	84.1	11.5
Lakewood-Cuyahoga County	Harrison Elementary School	K-5	C	398	78.0	42.0	63.1	25.9
Lakewood-Cuyahoga County	Hayes Elementary School	K-5	B	375	42.9	17.7	84.0	9.8
Lakewood-Cuyahoga County	Horace Mann Elementary School	K-5	B	415	52.8	17.4	80.0	15.3
Lakewood-Cuyahoga County	Lakewood High School	9-12	A	1,802	40.9	23.4	75.5	16.5
Lakewood-Cuyahoga County	Lincoln Elementary School	K-5	A	391	34.6	18.5	81.0	10.9
Lakewood-Cuyahoga County	Roosevelt Elementary School	K-5	B	296	62.3	23.9	79.4	12.4
Lorain	Academic Enrichment Academy	1-12	F	580	81.2	77.8	16.8	68.4
Lorain	Frank Jacinto Elementary	K-5	D	268	>95.0	87.2	48.8	28.4
Lorain	Garfield Elementary School	PK-5	D	278	92.9	75.1	59.5	45.1
Lorain	General Johnnie Wilson Middle School	6-8	D	473	89.6	82.5	68.0	33.7
Lorain	Hawthorne Elementary School	K-5	C	344	91.9	64.4	38.5	52.2
Lorain	Helen Steiner Rice ES	PK-5	D	354	88.0	66.8	71.9	20.7
Lorain	Lakeview Elementary School	PK-6	B	387	72.1	69.0	79.8	7.5
Lorain	Larkmoor Elementary School	K-5	C	452	90.6	54.0	66.3	29.4
Lorain	Longfellow Middle School	6-8	C	467	89.4	61.9	65.9	28.7
Lorain	Lorain High School	9-12	B	1,904	75.0	68.0	59.9	19.4
Lorain	New Beginnings	3-12	F	162	69.6	81.5	-	198.3
Lorain	Palm Elementary School	K-5	D	345	94.9	80.5	70.0	21.2
Lorain	Stevan Dohanos Elementary School	K-5	B	289	>95.0	91.3	50.0	30.7
Lorain	Toni Wofford Morrison ES	PK-5	D	326	91.4	77.4	57.6	33.3
Lorain	Washington Elementary School	K-5	D	304	94.6	80.4	53.1	39.9
Lorain	Whittier Middle School	6-8	D	500	91.0	75.4	74.2	20.9
Maple Hts.	Dunham Elementary School	6	B	315	74.2	>95.0	0.0	19.2
Maple Hts.	Maple Heights High School	9-12	C	1,170	58.8	>95.0	72.5	23.7
Maple Hts.	Milkovich Middle School	7-8	B	588	72.0	>95.0	73.2	21.1
Maple Hts.	Raymond Elementary School	PK-1	NA	543	74.9	>95.0	69.1	21.3
Maple Hts.	Rockside Elementary School	2-3	C	577	80.3	>95.0	71.1	17.0
Maple Hts.	Stafford Elementary School	4-5	C	599	78.3	>95.0	79.7	18.5
Mayfield	Gates Mills Elementary School	K-5	A	122	14.8	38.9	81.6	16.4
Mayfield	Lander Elementary School	K-5	A	527	33.5	28.5	86.2	10.2
Mayfield	Mayfield Center Elementary School	K-5	A	367	23.0	30.1	84.8	7.8
Mayfield	Mayfield High School	8-12	A	1,995	16.3	25.7	89.8	7.9
Mayfield	Mayfield Middle School	6-7	A	561	21.3	24.2	76.0	5.4
Mayfield	Millridge Elementary School	K-5	A+	508	15.6	16.4	89.6	5.1
Mayfield	Millridge Hearing Center	PK-5	NA	60	22.3	32.3	88.0	4.5
Medina	A. I. Root Middle School	6-8	A	832	12.8	6.2	93.5	4.0
Medina	Claggett Middle School	6-8	A	940	18.6	9.4	88.4	5.7
Medina	Eliza Northrop Elementary	PK-5	A	441	19.8	10.7	80.9	10.2
Medina	Ella Canavan Elementary School	K-5	A	482	13.6	7.2	86.5	3.5
Medina	Garfield Elementary School	K-5	A	418	36.8	20.6	73.2	9.6
Medina	H G Blake Elementary School	K-5	A	523	13.1	<5.0	91.4	3.8
Medina	Heritage Elementary School	K-5	A	435	14.3	6.4	89.1	4.2

Cleveland Area public school buildings alphabetical by district and school name				District attributes			Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Medina	Medina High School	9-12	A	2,310	13.9	8.5	83.1	7.0
Medina	Ralph E. Waite Elementary	K-5	A+	506	6.8	6.3	89.1	6.1
Medina	Sidney Fenn Elementary School	K-5	A+	455	17.3	6.9	84.6	9.2
Mentor	Bellflower Elementary School	K-5	A	438	22.7	5.2	92.5	3.4
Mentor	Brentmoor Elementary School	PK-5	A	296	37.2	14.1	77.9	13.9
Mentor	Fairfax Elementary School	PK-5	A	294	24.5	11.3	89.6	6.4
Mentor	Garfield Elementary School	K-5	A	448	20.9	<5.0	89.1	4.7
Mentor	Headlands Elementary School	PK-5	A	180	45.6	5.3	83.4	5.4
Mentor	Hopkins Elementary School	K-5	A	527	17.9	7.6	92.4	5.1
Mentor	Lake Elementary School	K-5	B	312	53.1	14.0	76.3	17.5
Mentor	Memorial Middle School	6-8	A	720	19.7	6.8	91.8	4.3
Mentor	Mentor High School	9-12	A	2,743	21.6	6.2	90.1	5.9
Mentor	Orchard Hollow Elementary School	K-5	A	415	16.4	<5.0	93.0	2.9
Mentor	Rice Elementary School	K-5	A	306	27.1	<5.0	91.1	5.3
Mentor	Ridge Middle School	6-8	A	520	23.8	7.4	90.7	5.7
Mentor	Shore Middle School	6-8	A	674	32.8	<5.0	90.4	5.9
Mentor	Sterling Morton Elementary School	K-5	A	283	24.3	<5.0	84.0	7.8
Midview	Midview East Elementary School	5-6	B	530	35.4	8.3	93.8	6.3
Midview	Midview High School	9-12	A	1,188	29.1	7.8	79.2	7.3
Midview	Midview Middle School	7-8	B	549	33.1	10.5	89.0	7.9
Midview	Midview North Elementary School	K-4	B	516	39.8	9.9	88.7	6.9
Midview	Midview West Elementary School	K-4	A	537	40.1	11.1	89.6	8.5
Newbury	Newbury Elementary School	K-6	B	289	33.7	10.5	86.3	11.8
Newbury	Newbury High School	7-12	A	340	26.8	<5.0	80.3	8.1
Nordonia Hills	Ledgeview Elementary School	K-4	A	488	29.7	19.8	91.2	8.4
Nordonia Hills	Lee Eaton Elementary School	5-6	A+	546	20.3	18.7	93.8	4.8
Nordonia Hills	Nordonia High School	9-12	A	1,419	19.7	21.7	91.0	5.5
Nordonia Hills	Nordonia Middle School	7-8	A	669	22.7	22.3	95.6	4.8
Nordonia Hills	Northfield Elementary School	K-4	A+	443	17.1	23.0	88.7	4.1
Nordonia Hills	Rushwood Elementary School	K-4	A	413	20.7	9.8	87.8	2.9
North Olmsted	Birch Elementary School	K-3	A	366	46.6	13.6	84.4	13.1
North Olmsted	Butternut Elementary School	K-3	A	213	46.8	20.4	71.5	15.0
North Olmsted	Chestnut Intermediate Elementary School	4-6	A	292	34.4	10.4	90.4	4.1
North Olmsted	Forest Elementary School	K-3	A	205	40.9	10.2	93.3	8.4
North Olmsted	Maple Intermediate Elementary School	4-6	B	304	50.7	15.4	85.7	11.3
North Olmsted	North Olmsted High School	9-12	A	1,452	33.2	11.2	89.0	6.5
North Olmsted	North Olmsted Middle School	7-8	A+	623	39.9	13.3	86.7	7.0
North Olmsted	Pine School	4-6	B	380	38.4	17.5	85.4	9.5
North Olmsted	Spruce Elementary School	K-3	A	163	36.0	12.6	90.5	9.5
North Ridgeville	Lear North Elementary School	1	NA	323	24.9	8.3	-	7.6
North Ridgeville	Liberty Elementary School	2-5	A	586	29.1	8.9	89.4	5.6
North Ridgeville	North Ridgeville Education Ctr Elementary School	K	NA	136	8.4	6.7	-	6.6
North Ridgeville	North Ridgeville High School	9-12	A	1,107	21.2	10.5	76.5	8.5
North Ridgeville	North Ridgeville Middle School	6-8	B	906	25.8	10.9	91.5	4.8
North Ridgeville	Wilcox Elementary School	2-5	A+	623	25.5	10.8	87.0	7.2
North Royalton	Albion Elementary School	1-4	A	405	21.8	12.1	87.6	6.6
North Royalton	Early Childhood Center	PK-K	NA	84	21.1	13.8	-	7.0
North Royalton	North Royalton High School	9-12	A	1,646	13.7	8.3	91.0	4.1
North Royalton	North Royalton Middle School	5-8	A	1,406	15.3	8.1	92.9	3.6
North Royalton	Royal View Elementary School	1-4	A	438	20.9	8.0	85.7	10.1

District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
North Royalton	Valley Vista Elementary School	1-4	A+	390	12.3	9.5	91.7	3.1
Oberlin	Eastwood Elementary School	K-2	NA	224	47.3	48.3	81.3	9.5
Oberlin	Langston Middle School	6-8	B	262	42.4	48.1	85.9	9.6
Oberlin	Oberlin High School	9-12	A	376	37.0	45.5	71.4	10.4
Oberlin	Prospect Elementary School	3-5	A	245	55.3	55.4	88.8	6.5
Olmsted Falls	Falls-Lenox Primary Elementary School	1-3	A	842	18.5	9.0	91.0	6.3
Olmsted Falls	Olmsted Falls Early Childhood Center	PK-K	NA	130	12.6	9.1	-	8.5
Olmsted Falls	Olmsted Falls High School	9-12	A	1,181	15.8	7.2	92.8	5.8
Olmsted Falls	Olmsted Falls Intermediate Building	4-5	A+	623	16.9	9.3	90.8	4.7
Olmsted Falls	Olmsted Falls Middle School	6-8	A	863	18.3	8.0	94.8	4.4
Orange	Ballard Brady Middle School	6-8	A	487	15.1	32.9	95.1	2.5
Orange	Moreland Hills Elementary School	K-5	A+	899	13.8	33.5	94.4	4.7
Orange	Orange High School	9-12	A	743	13.8	34.7	89.3	34.1
Painesville City	Chestnut Elementary School	K-5	C	535	78.7	64.1	70.0	21.3
Painesville City	Elm Street Elementary School	K-5	D	472	80.8	78.9	68.3	32.2
Painesville City	Harvey High School	9-12	C	743	74.6	69.6	71.6	30.7
Painesville City	Heritage Middle School	6-8	C	632	77.6	72.8	82.0	23.5
Painesville City	Maple Elementary School	K-5	C	530	73.3	68.3	75.2	24.5
Parma	Col John Glenn Elementary School	K-6	B	347	30.9	11.9	84.5	7.8
Parma	Dentzler Elementary School	K-6	A	411	47.6	8.2	75.2	11.1
Parma	Green Valley Elementary School	K-6	A	440	27.4	7.2	90.8	6.0
Parma	Greenbriar Middle School	7-8	B	638	48.5	14.8	82.4	13.2
Parma	Hillside Middle School	7-8	A	515	33.5	8.9	87.6	8.1
Parma	James E Hanna Elementary School	K-6	C	258	68.7	35.0	62.1	27.2
Parma	John Muir Elementary School	K-6	C	516	61.4	16.1	81.2	13.5
Parma	Normandy High School	9-12	A	1,231	20.9	6.5	89.1	8.5
Parma	Parma High School	9-12	B	1,451	40.6	9.8	75.8	13.2
Parma	Parma Park Elementary School	K-6	A+	429	39.0	12.1	85.9	7.9
Parma	Pearl Road Elementary School	K-6	B	369	47.7	12.0	83.0	8.7
Parma	Pleasant Valley Elementary School	K-6	A	549	44.4	14.2	79.5	11.2
Parma	Renwood Elementary School	K-6	B	347	49.6	7.1	81.0	11.2
Parma	Ridge-Brook Elementary School	K-6	B	341	54.2	17.1	74.4	20.3
Parma	Shiloh Middle School	7-8	A	680	54.8	12.1	89.3	8.9
Parma	State Road Elementary School	K-6	B	455	56.5	11.5	78.4	16.1
Parma	Thoreau Park Elementary School	K-6	C	685	57.2	11.3	78.8	15.0
Parma	Valley Forge High School	9-12	A	1,448	39.8	13.4	79.2	9.6
Revere	Bath Elementary School	4-5	A+	435	9.2	10.9	94.1	3.2
Revere	Hillcrest Elementary School	K-3	A	659	7.6	11.9	94.3	3.1
Revere	Revere High School	9-12	A	946	7.3	8.8	94.4	3.2
Revere	Revere Middle School	6-8	A	668	9.4	8.2	92.9	3.1
Richmond Hts.	Richmond Heights Elementary School	K-6	C	413	58.6	90.5	62.8	18.8
Richmond Hts.	Richmond Heights Middle School	6-8	C	211	55.9	88.0	-	15.5
Richmond Hts.	Richmond Heights Secondary School	7-12	B	265	42.0	88.1	58.7	18.8
Riverside-Lake County	Buckeye Elementary School	K-5	A	416	14.2	14.6	91.6	3.2
Riverside-Lake County	Clyde C Hadden Elementary School	K-5	A	254	24.1	23.9	82.9	13.4
Riverside-Lake County	Hale Road Elementary School	PK-5	A	438	17.4	9.2	89.6	9.3
Riverside-Lake County	Henry F Lamuth Middle School	6-7	A	777	19.3	10.4	93.4	6.4
Riverside-Lake County	Leroy Elementary School	K-5	A	281	10.0	<5.0	91.4	3.7
Riverside-Lake County	Madison Avenue Elementary School	K-5	A	348	11.6	9.1	88.6	3.2
Riverside-Lake County	Melridge Elementary School	K-5	A	421	7.1	9.8	89.6	4.6

Cleveland Area public school buildings							Mobility measures	
alphabetical by district and school name			District attributes					
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Riverside-Lake County	Riverside Jr/Sr High School	8-12	A	1,938	17.0	7.5	85.1	8.1
Rocky River	Goldwood Primary Elementary School	K-2	NA	464	10.4	10.3	92.8	4.8
Rocky River	Kensington Intermediate Elementary School	3-5	A+	556	10.1	8.4	94.1	2.9
Rocky River	Rocky River High School	9-12	A	878	10.8	6.5	93.5	3.7
Rocky River	Rocky River Middle School	6-8	A+	632	13.2	8.9	95.9	2.5
Shaker Hts.	Boulevard Elementary School	K-4	A	360	28.5	62.9	80.9	12.3
Shaker Hts.	Fernway Elementary School	K-4	A	357	28.1	49.3	86.8	6.5
Shaker Hts.	Lomond Elementary School	K-4	A	481	39.8	74.8	77.4	12.9
Shaker Hts.	Mercer Elementary School	K-4	A	407	31.7	58.4	85.2	7.1
Shaker Hts.	Onaway Elementary School	K-4	A	378	21.0	45.6	83.5	6.1
Shaker Hts.	Shaker Hts High School	9-12	B	1,693	28.9	65.5	82.5	10.9
Shaker Hts.	Shaker Hts Middle School	7-8	C	867	36.4	67.0	87.6	11.5
Shaker Hts.	Woodbury Elementary School	5-6	A	846	34.7	63.5	89.8	7.0
Sheffield-Sheffield Lake	Brookside High School	9-12	B	660	43.0	14.2	73.1	8.1
Sheffield-Sheffield Lake	Forestlawn Elementary School	5	A	156	53.9	12.8	-	8.3
Sheffield-Sheffield Lake	Knollwood Elementary School	PK-1	NA	216	35.1	15.3	77.6	10.9
Sheffield-Sheffield Lake	Sheffield Middle School	6-8	A	447	48.9	15.5	86.9	7.0
Sheffield-Sheffield Lake	Tennyson Elementary School	2-3	B	274	56.4	15.7	83.2	6.9
Sheffield-Sheffield Lake	William Barr Elementary School	4	A	123	55.5	13.5	-	5.6
Solon	Arthur Road Elementary School	PK-4	A	477	8.7	35.5	90.5	3.7
Solon	Dorothy E Lewis Elementary School	K-4	A	373	8.4	24.5	90.0	4.3
Solon	Grace L Roxbury Elementary School	K-4	A	409	13.0	46.2	88.5	7.9
Solon	Orchard Middle School	5-6	A	781	10.6	32.5	94.7	4.0
Solon	Parkside Elementary School	K-4	A	421	8.7	31.2	89.7	3.5
Solon	Solon High School	9-12	A	1,743	7.8	31.6	94.6	2.9
Solon	Solon Middle School	7-8	A	838	9.9	29.9	95.3	3.3
South Euclid-Lyndhurst	Adrian Elementary School	K-3	A	308	64.3	84.9	81.6	9.3
South Euclid-Lyndhurst	Brush High School	9-12	B	1,520	42.9	67.8	88.5	9.4
South Euclid-Lyndhurst	Greenview Upper Elementary School	4-6	C	866	56.1	75.3	83.6	8.7
South Euclid-Lyndhurst	Memorial Junior High School	7-8	C	682	54.0	73.3	85.3	7.6
South Euclid-Lyndhurst	Rowland Elementary School	PK-3	A	411	54.8	73.4	76.2	15.1
South Euclid-Lyndhurst	Sunview Elementary School	K-3	A	387	24.9	32.5	76.5	10.6
Stow-Munroe Falls	Echo Hills Elementary School	K-4	B	347	27.6	12.5	82.6	7.7
Stow-Munroe Falls	Fishcreek Elementary School	K-4	A+	334	15.6	13.1	88.8	6.6
Stow-Munroe Falls	Highland Elementary School	K-4	A	325	18.9	8.9	83.8	6.6
Stow-Munroe Falls	Indian Trail Elementary School	K-4	A	304	34.0	10.9	84.6	11.1
Stow-Munroe Falls	Kimpton Middle School	7-8	A	859	21.7	8.9	91.6	5.0
Stow-Munroe Falls	Lakeview Elementary School	5-6	A	854	22.7	8.1	91.0	5.7
Stow-Munroe Falls	Riverview Elementary School	K-4	A+	265	23.5	6.6	82.2	9.3
Stow-Munroe Falls	Stow-Munroe Falls High School	9-12	A	1,749	17.7	8.4	90.1	5.2
Stow-Munroe Falls	Woodland Elementary School	K-4	A	307	25.6	11.0	87.8	6.8
Streetsboro	Campus Intermediate Elementary School	2-3	A	355	60.6	19.7	83.3	7.9
Streetsboro	Henry Defer Intermediate Elementary School	4-6	B	451	40.4	21.4	81.2	8.0
Streetsboro	Streetsboro High School	9-12	B	637	35.6	17.5	74.8	10.4
Streetsboro	Streetsboro Middle School	7-8	B	325	42.2	19.5	86.3	10.8
Streetsboro	Wait Primary Elementary School	K-1	NA	327	30.1	15.0	81.9	11.5
Strongsville	Albion Middle School	7-8	A	523	18.6	11.9	91.9	5.0
Strongsville	Center Middle School	7-8	A	591	16.1	14.8	93.5	3.4
Strongsville	Chapman Elementary School	K-6	A	415	15.1	10.6	90.6	3.5
Strongsville	Drake Elementary School	K-6	A	418	26.2	19.3	87.7	11.3

District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Strongsville	Kinsner Elementary School	K-6	B	585	10.3	13.9	92.0	2.6
Strongsville	Muraski Elementary School	K-6	A	533	17.0	14.3	93.7	8.1
Strongsville	Strongsville High School	9-12	A	2,449	12.8	10.9	92.6	4.3
Strongsville	Surrarrer Elementary School	K-6	B	342	9.8	12.3	90.9	4.1
Strongsville	Whitney Elementary School	K-6	A	352	15.2	11.3	89.6	4.4
Strongsville	Zellers Elementary School	K-6	B	306	26.7	11.6	79.5	5.5
Tallmadge	Dunbar Elementary School	2-3	A	341	26.4	13.7	87.7	8.2
Tallmadge	Munroe Elementary School	4-5	B	404	25.0	11.6	95.8	5.5
Tallmadge	Overdale Elementary School	K-1	NA	324	20.0	15.3	90.2	7.6
Tallmadge	Tallmadge High School	9-12	A	869	17.3	6.9	90.1	5.4
Tallmadge	Tallmadge Middle School	6-8	A+	644	23.8	10.7	89.1	6.7
Twinsburg	Geo G Dodge Elementary School	4-6	A+	995	16.8	37.8	94.4	3.7
Twinsburg	R B Chamberlin Middle School	7-8	A	654	14.2	37.3	94.1	5.5
Twinsburg	Samuel Bissell Elementary School	2-3	A	608	14.6	34.8	91.4	4.1
Twinsburg	Twinsburg High School	9-12	A	1,359	17.0	35.8	91.6	6.9
Twinsburg	Wilcox Elementary School	K-1	NA	622	13.3	35.6	84.6	7.6
Warrensville Hts.	Eastwood Elementary School	3-4	D	302	70.5	>95.0	-	22.4
Warrensville Hts.	John Dewey Elementary School	PK-2	NA	516	43.0	>95.0	-	19.2
Warrensville Hts.	Warrensville Heights High School	9-12	D	607	65.5	>95.0	58.1	27.3
Warrensville Hts.	Warrensville Heights Middle School	5-8	F	531	64.9	>95.0	63.6	26.3
West Geauga	Robert C Lindsey Elementary School	K-5	A+	421	15.1	<5.0	92.1	3.5
West Geauga	West Geauga High School	9-12	A	846	9.0	<5.0	95.6	2.6
West Geauga	West Geauga Middle School	6-8	A	519	14.8	5.6	96.5	3.1
West Geauga	Westwood Elementary School	K-5	A+	406	13.8	<5.0	94.1	4.8
Westlake	Bassett Elementary School	K-4	A	369	15.0	18.5	83.0	8.2
Westlake	Dover Elementary School	K-4	A	339	13.6	11.7	88.3	6.6
Westlake	Hilliard Elementary School	K-4	A	277	12.5	15.5	89.9	5.5
Westlake	Holly Lane Elementary School	K-4	A	305	16.3	11.0	87.5	7.4
Westlake	Lee Burneson Middle School	7-8	A	669	13.9	8.3	93.3	3.9
Westlake	Parkside Elementary School	5-6	A	596	17.5	13.5	93.9	2.7
Westlake	Westlake High School	9-12	A	1,332	14.0	10.9	91.5	5.1
Wickliffe	Wickliffe Elementary School	PK-4	A	576	39.1	15.1	90.6	7.3
Wickliffe	Wickliffe High School	9-12	A	460	26.3	12.8	88.7	7.1
Wickliffe	Wickliffe Middle School	5-8	A	463	38.6	16.5	92.3	6.6
Willoughby-Eastlake	Eastlake Middle School	6-8	B	481	36.0	6.9	90.2	8.0
Willoughby-Eastlake	Edison Elementary School	PK-5	A	643	33.8	24.5	74.6	12.8
Willoughby-Eastlake	Grant Elementary School	K-5	A+	441	33.3	9.4	84.2	9.3
Willoughby-Eastlake	Jefferson Elementary School	PK-5	A	448	28.3	<5.0	89.4	4.9
Willoughby-Eastlake	Longfellow Elementary School	PK-5	A	418	42.5	7.6	84.7	6.6
Willoughby-Eastlake	Mckinley Elementary School	PK-5	A	268	54.0	19.3	74.7	16.0
Willoughby-Eastlake	North High School	9-12	A	1,399	30.6	5.6	91.0	5.8
Willoughby-Eastlake	Royalview Elementary School	PK-5	A+	857	38.6	6.6	87.6	7.7
Willoughby-Eastlake	South High School	9-12	A	1,382	24.3	12.7	87.4	7.7
Willoughby-Eastlake	Washington Elementary School	PK-5	A	514	34.2	9.7	83.9	8.8
Willoughby-Eastlake	Willoughby Middle School	5-8	A	902	31.9	15.3	83.6	9.4
Willoughby-Eastlake	Willowick Middle School	6-9	B	574	41.7	7.4	57.6	9.0
Woodridge	Woodridge High School	9-12	A	617	30.1	24.4	84.6	11.2
Woodridge	Woodridge Intermediate Elementary School	3-5	A	446	41.5	32.2	87.7	11.6
Woodridge	Woodridge Middle School	6-8	B	499	39.0	32.9	88.6	10.2
Woodridge	Woodridge Primary Elementary School	K-2	NA	423	39.4	31.4	83.1	16.8

Appendix C. Cleveland Area public charter schools, school year 2010–2011 (unless noted)

Cleveland Area public charter schools alphabetical by school name				District attributes			Mobility measures	
District of location	School *denotes dropout recovery school	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Lorain	Academy of Arts and Sciences	K-12	C	150	>95.0	78.7	56.8	9.0
Akron	Akros Middle School	6-8	B	86	36.1	>95.0	-	17.4
East Cleveland	Apex Academy	K-8	C	587	>95.0	>95.0	60.8	17.8
Cleveland	Arts and Science Preparatory Academy	K-12	F	205	91.7	94.5	36.9	31.0
Cleveland	Bella Academy of Excellence	K-8	C	364	50.3	>95.0	63.2	17.8
Cleveland	Citizens Academy	K-8	A	408	78.3	>95.0	64.3	4.2
Cleveland	Cleveland Academy for Scholarship Technology and Leadership*	9-12	D	283	77.1	>95.0	50.7	50.0
Cleveland	Cleveland Arts and Social Sciences Academy	K-12	F	369	58.5	>95.0	66.8	22.6
Cleveland	Cleveland College Preparatory School	K-8	C	188	88.6	94.0	-	37.9
Cleveland	Cleveland Entrepreneurship Preparatory School	6-8	A	314	83.4	>95.0	39.2	19.4
Cleveland	Cleveland Lighthouse Community School	K-12	D	178	>95.0	>95.0	41.7	41.7
Elyria	Constellation Schools: Elyria Community Elementary	K-9	B	262	60.3	35.1	63.8	3.4
Parma	Constellation Schools: Lorain Community Elementary	K-4	A	178	81.7	59.6	77.9	8.4
Parma	Constellation Schools: Lorain Community Middle	5-9	C	133	82.8	62.4	58.7	21.2
Cleveland	Constellation Schools: Madison Community Elementary	K-12	C	269	95.0	60.2	63.4	11.0
Cleveland	Constellation Schools: Old Brooklyn Community Elementary	K-4	A	290	52.3	20.9	89.4	4.8
Parma	Constellation Schools: Old Brooklyn Community Middle	5-9	A+	158	57.2	27.6	72.5	3.1
Parma	Constellation Schools: Outreach Academy for Students with Di	K-12	A	53	19.0	32.6	93.1	9.5
Parma	Constellation Schools: Parma Community	K-12	B	880	53.9	17.3	83.5	3.0
Cleveland	Constellation Schools: Puritas Community Elementary	K-4	A	199	79.8	40.1	76.6	8.5
Parma	Constellation Schools: Puritas Community Middle	5-9	C	140	75.2	35.1	72.2	10.8
Cleveland	Constellation Schools: Stockyard Community Elementary	K-9	C	283	60.2	59.0	61.0	10.5
Parma	Constellation Schools: Stockyard Community Middle	K-8	D	51	81.2	63.1		12.7
Cleveland	Constellation Schools: Westpark Community Elementary	K-4	A	289	55.9	26.2	86.4	3.8
Parma	Constellation Schools: Westpark Community Middle	5-9	C	177	51.8	25.8	63.3	6.6
Cleveland	Constellation Schools: Westside Community School of the Arts	K-7	B	213	72.9	62.8	77.2	6.8
Cleveland	Elite Academy of the Arts	K-8	F	230	>95.0	>95.0	60.5	22.4
Field	Falcon Academy of Creative Arts	3-7	A	147	19.0	<5.0		14.5
Cleveland	Frederick Douglass Reclamation Academy*	8-12	NA	88	84.2	83.3	-	6.0
Cleveland	George V. Voinovich Reclamation Academy*	8-12	NA	108	62.8	>95.0	-	129.0
Cleveland	Harvard Avenue Community School	K-8	D	632	90.6	>95.0	64.9	12.2
Akron	Hope Academy Brown St Campus	K-8	C	262	95.0	92.6	73.5	22.3
Cleveland	Hope Academy Cathedral Campus	K-8	F	494	93.4	>95.0	68.8	19.6
Cleveland	Hope Academy Chapelside Campus	K-8	C	426	>95.0	>95.0	68.2	26.7
Cleveland	Hope Academy Cuyahoga Campus	K-8	D	411	92.5	72.5	69.2	21.2
Cleveland	Hope Academy East Campus	K-8	D	366	>95.0	>95.0	72.5	23.4
Cleveland	Hope Academy Lincoln Park	K-8	D	222	91.5	84.6	30.1	41.7
Cleveland	Hope Academy Northcoast	K-8	D	264	94.9	77.7	67.3	13.5
Cleveland	Hope Academy Northwest Campus	K-12	C	405	94.8	80.5	73.0	6.3
Akron	Hope Academy University	K-8	D	369	94.7	>95.0	62.6	17.4
Cleveland	Horizon Science Acad Cleveland	K-12	A	458	78.1	88.7	64.9	10.7
Cleveland	Horizon Science Academy Cleveland Elementary School	K-5	C	144	90.9	>95.0	60.8	12.2
Cleveland	Horizon Science Academy Denison Elementary School	K-5	F	168	88.6	85.2	55.1	17.0
Cleveland	Horizon Science Academy Lorain	K-12	B	188	93.7	58.4	57.5	10.6
Cleveland	Horizon Science Academy Toledo Downtown	K-12	D	108	92.2	87.5		59.6

Cleveland Area public charter schools alphabetical by school name		District attributes					Mobility measures	
District of location	School *denotes dropout recovery school	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Cleveland	Horizon Science Academy Youngstown	K-12	C	197	>95.0	92.7		26.5
Cleveland	Horizon Science Academy-Cleveland Middle School	K-12	A	153	87.3	>95.0	42.4	24.7
Cleveland	Horizon Science Academy-Denison Middle School	K-12	C	316	90.2	86.7	55.9	13.5
Kent	Kent Digital Academy	K-12	NA	20	43.1	20.5	23.1	207.7
Lakewood-Cuyahoga County	Lakewood City Academy*	K-12	B	161	64.7	39.7	44.2	54.2
East Cleveland	Langston Hughes High School*	8-12	F	149	54.0	>95.0		46.4
Akron	Life Skills Center Of Akron*	9-12	D	235	93.7	71.3	8.3	177.5
Elyria	Life Skills Center of Elyria*	9-12	D	185	85.8	53.5	6.1	204.1
Akron	Life Skills Center of North Akron*	9-12	F	151	79.6	39.4	7.7	168.1
Akron	Life Skills Center Of Summit County*	9-12	C	182	93.5	59.1	11.5	157.7
Cleveland	Life Skills Ctr Of Cleveland*	9-12	F	298	94.4	>95.0	9.2	200.8
Cleveland	Life Skills Ctr Of Lake Erie*	9-12	C	339	92.4	57.7	7.0	194.1
Cleveland	Life Skills Of Northeast Ohio*	9-12	F	374	81.4	>95.0	8.5	205.3
Akron	Lighthouse Comm & Prof Dev	K-6	F	86	>95.0	>95.0	56.4	29.2
Cleveland	Lion of Judah Academy	K-8	D	116	>95.0	>95.0	28.6	31.1
Lorain	Mansfield Preparatory Academy	K-12	B	151	94.9	79.5	47.0	17.1
Cleveland	Marcus Garvey Academy	K-9	F	185	>95.0	>95.0	40.3	34.4
Cleveland	Menlo Park Academy	K-12	A	230	6.1	19.4	79.0	11.0
Mentor	New Day Academy Boarding & Day School	K-12	B	199	>95.0	>95.0	57.8	13.7
Euclid	Noble Academy-Cleveland	K-12	A	226	69.6	90.0	72.5	8.3
Cleveland	Northeast Ohio College Preparatory School	K-8	B	194	>95.0	94.1		35.2
Cleveland	Phoenix Village Academy Primary 2	K-12	B	66	93.0	>95.0	50.0	9.8
Cleveland	Phoenix Village Academy: Secondary I	K-12	NA	77	72.4	>95.0	36.0	20.0
Euclid	Pinnacle Academy	K-8	C	619	92.3	91.1	70.7	11.6
Cleveland	Promise Academy*	9-12	C	572	92.6	>95.0	6.5	186.1
Akron	Romig Road Community School	K-8	F	503	60.2	>95.0	51.2	18.8
Cuyahoga Falls	Schnee Learning Center*	9-12	B	146	31.8	8.0	48.1	82.1
Painesville City	Summit Academy Community School - Painesville	K-10	D	78	76.6	19.8	70.0	23.7
Akron	Summit Academy Community School for Alt Learners of Akron	K-10	C	86	80.4	38.7	40.0	17.7
Parma	Summit Academy Community School-Parma	K-12	F	196	67.3	27.6	76.3	125.7
Lorain	Summit Academy Middle School - Lorain	5-10	F	88	84.6	45.6	47.4	11.0
Akron	Summit Academy Middle School-Akron	5-10	F	97	72.7	46.6	47.7	19.1
Akron	Summit Academy Secondary - Akron	8-12	C	59	72.6	34.5	85.3	17.2
Lorain	Summit Academy Secondary - Lorain	8-12	C	68	65.4	30.4	70.2	29.0
Lorain	Summit Academy-Lorain	K-10	F	112	87.3	59.9	46.9	34.9
Lorain	The Arts Academy	K-12	D	243	<5.0	73.7	55.1	33.5
Cleveland	The Arts Academy West	K-12	NA	67	31.7	>95.0	36.4	103.7
Akron	The Edge Academy	K-6	C	262	20.6	91.6	59.1	8.6
Cleveland	The Intergenerational School	K-8	A+	222	64.0	95.0	71.2	10.0
Cleveland	Thurgood Marshall High School*	8-12	NA	46	68.3	>95.0		178.4
Cleveland	Village Preparatory School	K-5	NA	171	87.0	>95.0	52.3	10.1
Cleveland	Villaview Lighthouse Community School	K-9	F	94	>95.0	>95.0	37.2	46.1
Cleveland	Virtual Schoolhouse, Inc.	K-12	F	325	88.1	86.7	45.6	71.0
Cleveland	Washington Park Community	K-8	B	226	82.3	22.2	81.1	5.7

Ohio Student Mobility Research Project
Columbus Area Profile

November 2012

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Summary

Student mobility is the phenomenon of students in grades K-12 changing schools for reasons other than customary promotion from elementary to middle school and middle to high school. This change may happen during the school year or over the summer. Mobility has consequences for schools, students, communities, and public policy. Research has found that students who change schools most frequently have worse educational outcomes.

In 2011, Community Research Partners and the Thomas B. Fordham Institute entered into a partnership to conduct research on student mobility in Ohio. The research analyzes more than five million student records over two school years to provide a picture of student mobility for all Ohio public districts and buildings and public charter schools, with in-depth analysis for the Columbus, Cleveland, Cincinnati, Dayton, and Toledo areas.

The Columbus Area Profile

The Columbus Area Profile focuses on the mobility of 49,616 Columbus City Schools (CCS) students and that of the more than 230,000 students in the other 43 public districts, 69 physical charter schools, and e-charter schools in an approximate 30 mile radius of CCS. For analysis purposes, Columbus Area districts are divided into Ring 1—those adjacent to CCS and/or within Franklin County—and Ring 2, the remaining districts.

Magnitude of mobility

The magnitude of mobility examines *how many* students change schools, both during the school year and between school years, and is measured in two ways: 1) cohort stability and 2) churn.

Cohort stability: measures retention of students over time

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

In the least stable Columbus Area districts, about one of every three students in a school at the beginning of a school year is not in that same building at the end of a second school year. The most stable districts lose fewer than one in ten students.

Grades K-7 building stability

- **Columbus City Schools.** Sixty-seven percent of a cohort of students in grades K-7 remained in the same CCS building over two years, the lowest stability rate of the 16 Columbus Area Ring 1 districts.
- **Other less stable districts.** Whitehall and Groveport Madison had building stability rates of 70% or less for grades K-7.
- **Most stable districts**. Grandview Heights, Upper Arlington, Bexley, and New Albany-Plain had building stability rates of 90% or greater for grades K-7.

Grades 8-11 building stability

- **Columbus City Schools.** Sixty-two percent of students in grades 8-11 remained in the same CCS building over two years, the third lowest stability rate of the 16 Columbus Area Ring 1 districts.
- **Other less stable districts.** Groveport Madison had the lowest building stability rate (54.1%) among the Ring 1 districts. Whitehall, Reynoldsburg, and Hamilton also had building stability rates of 70% or less for grades 8-11.
- **Most stable districts**. Upper Arlington, Bexley, Grandview Heights, New Albany-Plain, and Dublin had building stability rates of 90% or greater for grades 8-11.

Charter school stability

- Only five of the 53 largest physical charter schools in the Columbus Area had stability rates of 70% or more, while 30 schools had rates of less than 50%, losing half or more of their students over two years. The least stable charter schools are primarily dropout recovery schools.

Churn: measures movements into and out of a building or district

What are the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

There were more than 20,000 admissions to and withdrawals from schools in the 16 Columbus Area Ring 1 districts during the 2010-2011 school year. For most of these districts, churn in grades K-8 resulted in a net gain of students (more admissions than withdrawals), while the churn in grades 9-12 produced a net loss of students (more withdrawals than admissions).

District churn

- **Columbus City Schools.** The CCS K-8 churn rate (18.5%) was the fourth highest, and the 23.5% churn rate for grades 9-12 was the highest, among the 16 Ring 1 districts. Many of the lowest churn CCS buildings are alternative schools. The 40 CCS buildings with the most churn have rates ranging from 36% to 182%. The building with the most churn is the Special Education Center.

- **Other high churn districts.** The Whitehall, Groveport Madison, and Hamilton Local districts had K-12 churn rates of more than 20%.

- **Lowest churn districts.** The Grandview Heights, Bexley, and Upper Arlington districts had the least churn among the Ring 1 districts, with K-12 rates of below 4.0%.

Charter school building churn

- Only five of the 53 largest physical charter schools in the Columbus Area had churn rates below 10%, while 17 schools had rates of greater than 50%. The charter schools with the greatest churn (95-220%) are primarily dropout recovery schools.

Mobility Patterns

Mobility patterns show the movement of students between school districts and buildings and between public districts and charter schools, as well as the characteristics of origin and destination schools. The analysis includes: 1) district and building mobility patterns, 2) report card ratings of origin and destination schools, and 3) inter-district open enrollment analysis.

Mobility patterns: districts and buildings that exchange students

How many unique students did pairs of districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts?

Over two school years, the 44 public districts in the Columbus Area exchanged 18,877 students. Another 20,345 students were exchanged between public districts and charter schools (both physical and e-charters). The largest numbers of exchanges were between districts in close proximity to each other, but CCS also exchanged students with other Major Urban districts across the state.

Columbus City Schools

Over two school years, 16,742 unique students transferred between CCS and another Ohio district or charter school. Of these, 55% moved to or from another district; 33% moved to or from a physical charter school; and 12% moved to or from an e-charter school. During this period, 5,389 students made a non-promotional change of schools within the CCS district.

- **Columbus City Schools exchanges with other districts.** Over two school years, 9,081 students were enrolled in a CCS school and in one of the 30 Ohio public districts that exchanged the most students with CCS. In these exchanges, 4,099 students entered CCS from another district, and

4,982 students left CCS for another district. The districts that exchanged at least 500 students with CCS were South-Western, Groveport Madison, Westerville, Reynoldsburg, and Whitehall.

- **Columbus City Schools exchanges with charters.** Over two school years, 6,905 students were exchanged between CCS schools and 30 charter schools. Two-thirds of these exchanges were from CCS to a physical charter school, and one-third were with e-charters, led by eCOT (1,591 students).

- **Columbus City Schools exchanges with buildings in other districts.** The largest numbers of CCS inter-district building moves occurred at the high school level. Only four of the top 30 exchanges involved elementary schools. CCS Independence, West, Briggs, and Walnut Ridge high schools exchanged a total of at least 75 students each with high schools in the Groveport Madison, South-Western, Whitehall, and Reynoldsburg districts.

- **Exchanges among Columbus City Schools buildings.** A total of 5,278 CCS students changed schools within the CCS district over two years. Of the 30 CCS buildings that exchanged the most students, Walnut Ridge High was the most frequent receiving school, followed by Mifflin High, West High, and West Broad Elementary. The most frequent sending schools were Brookhaven High, East High, Marion-Franklin High, and Burroughs Elementary.

Other Columbus Area districts

- **Exchange patterns among districts.** Over two years, there were 7,238 student exchanges among the 25 largest Columbus Area districts (excluding CCS). The South-Western, Groveport Madison, Reynoldsburg, Westerville, and Hilliard districts had the most inter-district exchanges. Districts that exchanged more than 150 students were South-Western and Hilliard, South-Western and Groveport Madison, Groveport Madison and Reynoldsburg, Dublin and Hilliard, and Groveport Madison and Hamilton Local.

Origin and destination report card ratings

What is the performance rating of the destination school of mobile students, compared to the rating of the school of origin?

For students who moved into, out of, or within the CCS district, the report card rating of the student's destination school, when compared to that of the school of origin, varied based on the types of buildings or districts involved in the move:

- **Exiting Columbus City Schools for another district.** Fifty-two percent went to a school with a rating two or more ratings higher than that of their school of origin; 46% went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin.

- **Entering Columbus City Schools from another district.** Fifty-five percent went to a school with a rating two or more ratings lower than that of their school of origin; 44% went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin.

- **Exiting Columbus City Schools for a charter school.** Sixty-eight percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin.

- **Changing schools within Columbus City Schools.** Seventy-three percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin.

Open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

As of school year 2010–11, CCS was surrounded by districts that did not accept open enrollment students from other districts. However, many districts in the Columbus Area—particularly those in Ring 2—do permit open enrollment. Nine pairs of districts had at least 50 students who resided in one district, but attended school in another district through inter-district open enrollment, including

from a South-Western residence to CCS enrollment, Groveport Madison to CCS, London to Madison-Plains, and Lancaster to Bloom-Carroll.

Mobility and the student

The analysis of mobility and CCS student characteristics and achievement examines differences in: (1) demographics of mobile and non-mobile student groups, (2) demographics of students who left the district based on the type of destination school, and (3) proficiency test scores based on mobility status.

Student characteristics and mobility status

How do stable CCS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

- **Movers between Columbus City Schools buildings.** Compared to stable CCS students, those who move between CCS buildings are more likely to be black, economically disadvantaged, homeless, or have a disability.

- **Outgoing and incoming students.** Compared to outgoing CCS students, incoming students are more likely to be black, homeless, an immigrant, or LEP.

Student characteristics and destination of outgoing students

How do the characteristics of outgoing CCS students differ based on their destination school?

- **Race.** Compared to other racial groups, black students are more likely to move to a physical charter school; white students are more likely to move to an e-charter; and Hispanic students are more likely to move to a district outside of Ohio.

- **Economic disadvantage.** Economically disadvantaged CCS students are more likely than those who are not economically disadvantaged to move to a physical charter or e-charter.

- **Homeless.** Homeless CCS students are more likely than those who are not homeless to move to another Ohio district or to a district outside of Ohio.

- **Immigrant.** Immigrant CCS students are more likely than those who are not an immigrant to move to a district outside of Ohio.

Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

Mobility history of test takers

Of the 7,232 3rd and 8th grade CCS students who took the Ohio Achievement Assessment (OAA) tests in spring 2011, about one-in-three 3rd grade test takers and one-in-four 8th-grade test takers made at least one non-promotional school move during the previous two school years. The largest mover group was those who made one move during the school year. The 0-move groups had an 85% economic disadvantage rate, compared to 97% or more of the 2-move and 3+-mover groups.

Mobility history and test scores

There is a downward trend in average test scores and passage rates of 3rd and 8th grade OAA math and reading tests with each successive school change that a CCS student made. All mover groups— even those who move one time in the summer—had lower average test scores and passage rates than students who did not change schools over the previous two years.

Statistical modeling compared mean test scores for mover groups. For the CCS student groups analyzed, the low p-values (<.0001) for all factors indicate that the number of school changes over two years is an independent predictor of test scores. There is a statistically significant relationship

between more school moves and lower test scores. Economic disadvantage and race are also independent predictors of test scores.

Mobility and achievement test roll-up level

An impact of student mobility is that mobile students may not meet the enrollment criteria—continually enrolled in a building or district from October 31 until the spring achievement testing date—for counting their test scores in a building's or district's performance rating. Instead, their test score is "rolled up" and counts only for the district or state rating. Among the Columbus Area Ring 1 districts, Columbus has the highest percentage of students whose achievement test scores are rolled up to the state (10.1%), the third highest among the 15 Major Urban districts.

Statewide context

To provide context for the data in the Columbus Area Profile, Table i includes comparison data on key district demographics and selected mobility measures for the 15 public school districts classified by ODE as "Major Urban," as well as for all public districts and all public charter schools in the state.

Table i. Ohio Major Urban Districts: District and student characteristics, school year 2010–2011 (SY 2011)

	Rating	Average daily enrollment	Enroll. chg. since SY 2001 (%)	Economic disadvan. (%)	Minority race or ethnicity (%)	Two-year district stability rate, Oct. 2009–May 2011 (%)		Two-year building stability rate, Oct. 2009–May 2011 (%)		One-year churn rate, school year 2010–2011 (%)		Test roll-up to state (4) (%)
						Grades K–7	Grades 8–11	Grades K–7	Grades 8–11	Grades K–8	Grades 9–12	
All Ohio public school districts (1)	-	1,637,230	-6.2	43.1	23.3	85.9	81.5	80.8	78.0	9.5 (2)	9.1 (2)	4.5
All Major Urban districts	-	244,396	-39.6	82.6	70.1	77.6	70.0	64.3	60.5	16.5 (2)	22.7 (2)	9.1
Akron	C	22,603	-25.3	84.7	59.5	81.5	77.1	68.9	66.2	12.3	18.2	4.3
Canton	C	9,750	-18.3	80.6	51.8	82.0	80.2	68.1	74.6	15.6	21.3	5.6
Cincinnati	B	32,009	-20.3	69.7	75.8	77.6	72.2	65.0	58.7	16.2	15.2	8.1
Cleveland	D	43,202	-40.2	>95.0	85.4	76.5	66.1	54.7	57.7	16.2	30.8	7.1
Cleveland Hts.-Univ. Hts.	C	5,907	-14.3	61.3	83.0	79.4	72.1	73.8	66.9	15.8	22.7	14.2
Columbus	C	49,616	-22.0	81.9	73.0	76.5	70.4	67.4	61.8	18.5	23.5	10.1
Dayton	C	14,174	-31.1	92.5	74.8	78.5	71.5	68.8	64.8	18.2	19.4	7.9
East Cleveland	D	3,182	-43.7	88.5	>95.0	69.1	62.6	64.6	61.6	23.9	22.9	10.2
Euclid	C	5,793	-4.3	66.0	83.6	77.1	76.8	68.6	72.8	16.9	16.4	7.3
Hamilton (Butler County)	C	9,444	<0.1	69.2	24.6	80.7	74.9	68.4	66.2	18.7	22.4	8.2
Lorain	C	7,585	-26.3	84.5	72.0	77.2	71.8	60.4	53.9	19.8	25.6	8.5
Springfield (Clark County)	B	7,398	-24.2	76.3	37.9	81.3	69.7	64.7	51.4	14.5	24.0	6.1
Toledo	C	22,277	-39.4	76.6	60.0	74.9	60.1	63.5	49.0	16.5	31.1	8.7
Warren	D	5,368	-20.9	75.2	53.8	79.0	71.2	63.0	65.5	15.5	18.8	5.3
Youngstown	D	6,088	-42.5	91.9	83.1	74.3	65.3	60.5	55.3	20.4	27.4	8.2
All Ohio public charter schools	-	113,698	-	75.0	60.8	-	-	50.6 (3)		27.2 (2,3)		13.7
E-charters	-	3,3052	-	64.7	21.0	-	-	44.2 (3)		129.9 (2,3)		30.8

Source: Ohio Department of Education; CRP analysis of ODE enrollment records

Note: District rating A+=Excellent with Distinction, A=Excellent, B=Effective, C=Continuous Improvement, D=Academic Watch, F=Academic Emergency.

(1) Public school district data in this table do not include the island districts or College Corner.

(2) Median of churn rates

(3) Churn rates for grades K-11 or K-12

(4) Among spring 2011 math achievement assessment test-takers in grades 3 to 8 reported by district (or charter school), the percentage whose scores were rolled up to state level; i.e., student was not continuously enrolled in district (or charter school) since last day of October for same academic year

Columbus Area Profile **|** Ohio Student Mobility Research Project

1.0 Introduction

1.1 What is student mobility?

Student mobility is the phenomenon of students in grades K-12 changing schools for reasons other than customary promotion from elementary school to middle school or from middle school to high school. This non-promotional school change can occur during the school year or in the summer between school years. It may involve residential change, school change, or both.

Students may change schools for reasons that are considered positive, such as when a family moves to a better school, neighborhood, or job. In fact, the current education policy environment sends a strong message to parents that school choice—which typically involves school change—is good. Community-based charter schools and school voucher programs are examples of school choice policy initiatives. The federal No Child Left Behind Act of 2001 (NCLB) requires that school districts provide students in schools identified as "In School Improvement," based on trends in proficiency test passage rates, with the opportunity to transfer to a school not designated as "In School Improvement."

1.2 The importance of understanding student mobility

Student mobility has consequences for schools, students, communities, and public policy. Research has found that students who change schools more frequently are likely to have worse educational outcomes. Highly mobile students are also more likely to be those with other risk factors—low income, special education, homelessness, or an unstable home environment. School changes worsen the learning and achievement problems of these at-risk children.

High student mobility puts a stress on teachers and administrators who must continually focus on incorporating new students into the building and classroom. Stable students in schools with high mobility also suffer from the disruptions to the classroom environment and the slower instructional pace necessary to accommodate new students. School districts face increased administrative costs from student mobility, including costs related to student records transfer and transportation.

There are community impacts of high student mobility that reach beyond the school. Neighborhoods and school districts with low performing schools and unstable school populations are disincentives to home ownership and economic development. Investments in school-based initiatives to improve attendance, academic achievement, and graduation rates are less effective if students move from school to school, dropping in and out of programs.

Finally, student mobility has important consequences for state and local education policy. A better understanding of how mobility impacts schools and students has implications for accountability measurement, education funding, and curriculum and instruction.

1.3 The Ohio Student Mobility Research Project

History of the project

In 2011, Community Research Partners (CRP) and The Thomas B. Fordham Institute (Fordham) entered into a partnership to conduct research on student mobility in Ohio. Fordham, a national leader in advancing educational excellence through quality research, commentary, and advocacy, wanted to build on their recent research on student mobility in the Dayton area and examine student mobility throughout the state. CRP brought to the project its experience in undertaking research on student mobility in the Columbus City Schools (CCS) and in processing and analyzing student-level records from the Ohio Department of Education (ODE).

In June 2011, Fordham provided CRP with a planning grant to develop a workable research plan. ODE provided CRP with student-records from the Education Management Information System (EMIS). Beginning with the 2008-2009 school year, EMIS has included unique student identifiers that enable tracking of individual students over time as they enter and exit public districts and public

charter schools in Ohio. With assistance from ODE staff in understanding and using the EMIS data, CRP analyzed student records for Franklin County districts. The outcome of the planning phase was a design for a large-scale study of student mobility in Ohio, to be conducted by CRP. Work on the project began in February 2012.

Project funders

The diverse set of project funders is indicative of the importance of the issue of student mobility. Funders are supporting the Ohio Student Mobility Research because of their interest in understanding: 1) the patterns of student mobility in Ohio or in a local community, 2) the impact of mobility on students and schools, and/or 3) the implications of mobility for state and local public policy. In addition to Fordham, funders include: The Siemer Institute for Family Stability, The Nord Family Foundation, The Cleveland Foundation, KnowledgeWorks, KidsOhio.org, American Federation of Teachers/Ohio Federation of Teachers, School Choice Ohio, United Way of Central Ohio, United Way of Greater Toledo, and The Columbus Foundation.

Research components

CRP and Fordham are not aware of other research that has examined student mobility at the scale, scope, and level of detail of the Ohio Student Mobility Research. The research employs descriptive and analytic statistics—presented in spreadsheets, visualizations, and reports—to provide a picture of student mobility for all Ohio public school districts and buildings and public charter schools, with in-depth analysis for five large urban regions (Columbus, Cleveland, Cincinnati, Dayton, Toledo).

The research also addresses several state policy issues of interest to Fordham: 1) open enrollment patterns, 2) "non-counters" profile (students whose test scores do not count in district performance ratings), and 3) monthly enrollment profiles of public districts. The project did not include collecting qualitative data from students, families, school personnel, or other stakeholders to determine why students change schools or the impact of student mobility.

About the data

As would be expected when undertaking such complex research, CRP made a number of decisions, in consultation with Fordham and ODE, about data analysis methods, definitions, and parameters. There are also a number of caveats about the data that are important to understand. These are described below.

The dataset

The dataset includes ODE EMIS files (student standing, student attributes, and student achievement tests) with 2.1 million unique students in grades K-12 during the 2009-10 and 2010-11 school years. (about five million instances of enrollment). The following were excluded from the analysis dataset:

- Non-instructional relationship between student and district, i.e. district provides only supportive services to student or has a residual reporting requirement for student
- Zero days in attendance over entirety of enrollment record
- Educational Service Centers
- Preschools and preschool students
- Foreign exchange students
- Kindergarten withdrawals
- Island Districts and College Corner, which are very small or geographically isolated

In school year 2010-11, the 1.79 million unique students included:

- 1.66 million students in 612 public school districts and 3,293 public school buildings
- 81,800 students in 313 "bricks and mortar," or physical, public charter schools

- 48,900 students in 26 accredited e-charters, a subset of charter schools
- 1,500 students in state schools for the deaf and blind
- 93,400 students in 71 vocational schools

Definitions

Charter schools. Ohio public charter schools (called "community schools" by ODE) include "bricks and mortar" schools that have school buildings and accredited e-charters, where teaching is done on-line. For brevity and clarity in this report, these two types of charter schools are referred to as: 1) *physical charter schools* and 2) *e-charter schools*.

School year. For most of the analysis, a school year is defined as beginning on October 1 (the official fall enrollment count date for Ohio schools) and ending on May 15. This was done to accommodate the various starting and ending dates of schools across the state.

Dropout Prevention and Recovery Program. A dropout recovery school, operated under a waiver from ODE, enables high school students (ages of 16 to 21) who are at risk of not graduating to graduate in lieu of meeting the Ohio Core curriculum. All dropout recovery schools identified in the ODE data set are charter schools.

Mobility-related terms. Report sections 3.0, 4.0, and 5.0 begin with definitions and other information related to the mobility measures used in this report.

Local context

The research scope and timeline did not include collecting information on unique situations in local districts or charter schools, not always evident in the EMIS dataset, which may contribute to or explain mobility rates and patterns. These may include: 1) competitive magnet or alternative schools that only admit students at the beginning of the school year, 2) school building demolition, renovation, or new construction that result in large numbers of students changing buildings; 3) starting, ending, or moving special programs (programs for students with disabilities, LEP students); 4) grade realignment (changing a school from K-5 to K-8); or 5) special purpose schools, (dropout recovery, welcome/transition schools) that by design involve students moving in and out throughout the year. CRP and Fordham hope that discussion of the research by local education stakeholders will provide this additional context for the data analysis.

Reliability of student identification numbers

This research is only possible because ODE has unique statewide student identifiers (SSID) that enable tracking students across public schools and districts. However, there is anecdotal evidence from district staff and others familiar with student recordkeeping that a new identifier is sometimes assigned to a student who enrolls in a new district. Because ODE records do not include student names, it was not possible for CRP to determine the extent to which this is happening; however, ODE data staff believes that it involves a very small number of cases.

The school attendance data controversy

As this report is being written, the State Auditor is examining student attendance data for districts across Ohio. It is alleged that some school staff withdrew students they knew to be still enrolled, deleted their absences, and then re-enrolled them, for the purpose of improving school ratings. This practice would increase a school's attendance rate, and only the test scores of students who have been continually enrolled from October through the spring proficiency test dates are counted in a school's overall test-passage rate.

This does not, however, impact the Ohio Student Mobility Research for the following reasons:

1. Student attendance records were not used for the research.

2. For the purposes of calculating building churn rates, a student who was withdrawn and then readmitted to the same building in less than 30 days was treated as continuously enrolled

rather than as an exit/reentry event. It was assumed that this was an administrative action and not a school move.

3. Analysis of the relationship of mobility to proficiency test scores is based on individual student records. Building-level test passage rates were not used.

In addition, this research includes a profile of "non-counters"—students whose test scores do not count in building or district report cards—which can help to inform this important dialogue.

Caveats about accuracy

CRP has been very careful in collecting, analyzing and presenting data to prepare the Ohio Student Mobility Research Project report. However, the project did not include authenticating the data provided by ODE. If careful readers of the report discover data errors or typographical errors, CRP welcomes this feedback and will publish corrections to the report.

The Columbus Area Profile

This report is a mobility profile of students in the Columbus Area. It focuses on the mobility of CCS students and how students move within the district and between and among 43 districts and 69 physical charter schools within an approximate 30 mile radius of CCS. The analysis includes:

- **Magnitude of mobility:** stability of students within districts and buildings (cohort stability) and numbers of movements into and out of districts and buildings (churn)

- **Mobility patterns:** origin and destination of movement between buildings and districts

- **Mobility and students:** the relationship of mobility to student demographic characteristics and student achievement

Additional data

- **Appendix.** Additional detailed data on student mobility for individual Columbus Area districts, buildings, and charter schools can be found in the appendix of this report.

- **Online spreadsheets.** Excel spreadsheets with mobility data for every public district, building, and charter school in Ohio can be found at: www.researchpartners.org.

- **Profile reports for other urban areas.** Profile reports for the Cleveland, Cincinnati, Dayton, and Toledo areas are available at: www.researchpartners.org.

2.0 The Columbus Area

The Columbus Area, as defined for the student mobility research, is the geographic area that includes all public school districts and all physical public charter schools within approximately 30-miles of the central district, Columbus City Schools (Map 1; Table 1). Portions of the analysis also include students within the Columbus Area who attend e-charter schools.

For the purpose of data analysis, the 43 districts are divided into:

- **Ring 1**: districts adjacent to CCS and/or within Franklin County
- **Ring 2**: the remainder of the districts, which are farther from the CCS district

Most of the analysis in this report is focused on the central urban district and the Ring 1 districts; however data about all districts in the Columbus Area can be found in the appendix and in on-line spreadsheets at www.researchpartners.org.

Map 1. School districts in the Columbus Area
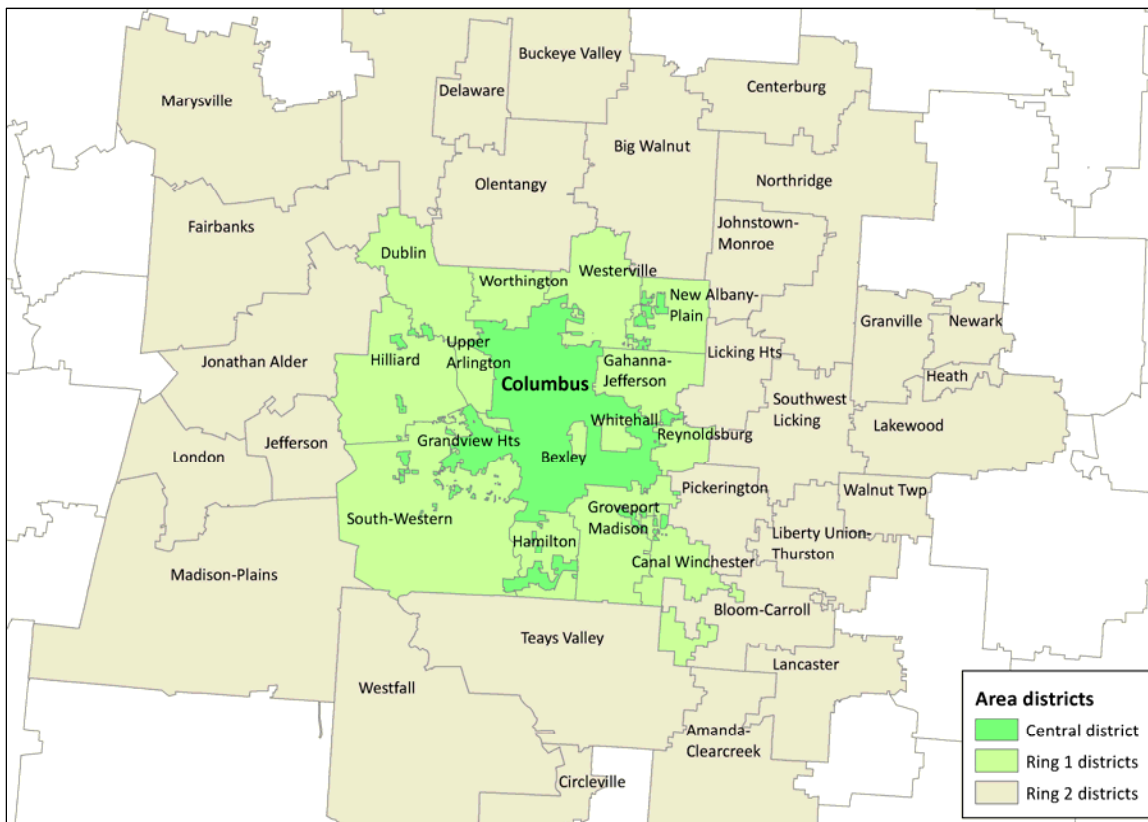
Note: In the maps of this report, district outlines are based on U.S. Census TIGER files.

Table 1. Number of public districts and school buildings in the Columbus Area, school year 2010–2011

	Public districts	Buildings in public districts	Physical charter schools
Columbus City Schools (CCS)	1	117	54
Ring 1 (districts within same county or adjacent to CCS)	15	177	13
Ring 2 (other districts within 30 miles of CCS)	28	165	2

Note: See Section 1 for types of schools included and excluded

2.1   Columbus Area schools at a glance

Columbus City Schools: student characteristics

CCS is the largest district in Ohio and has had a 22% loss in enrollment over ten years (Table 2). In school year 2010-11, nearly three-quarters of CCS students were a minority race or ethnicity, including 58.9% black, 6.8% Hispanic, and 2.1% Asian students. Eight of ten students were economically disadvantaged (eligible for Free and Reduced Price Lunch Program); 3.5% were immigrants; 10% had limited English proficiency (LEP); and 17% had a disability. Of the more than 3,000 homeless students in Columbus Area districts in school year 2010, 68% were enrolled in CCS.

Among children ages 5–17 living within the CCS district boundaries, 14,819 (21.7%) lived in a different house than they did the previous year. About 1 in 10 children residing within the district and enrolled in grades 1–12 were enrolled in a private school. (American Community Survey 2010)

Other Columbus Area districts: student characteristics

The following are characteristics of the 43 Ring 1 and Ring 2 districts (excluding CCS) in the Columbus Area for school year 2010-2011 (Table 2 and Appendix):

- Seven districts had economic disadvantage rates above 50% (Whitehall, Hamilton Local, Groveport Madison, Newark, South-Western, Circleville, and Lancaster).
- Six districts had LEP rates above 5%, including South-Western (higher than CCS at 13.1%), Dublin, Licking Heights, Hilliard, Westerville, and Reynoldsburg
- Only in Whitehall did minority students make up more than half of the student population.
- Groveport Madison had the second largest largest number of homeless students (454) after CCS.

Table 2. Columbus Area: Student characteristics, school year 2010–2011

School district	Enrollment (1)	Enrollment change since SY 2001 (%)	Economic disadvantage (%)	Minority (%)	Limited English Prof. (%)	Homeless
All districts in Columbus Area	253,786	+7.0	40.0	31.9	5.1	3,014
All Ring 1 districts	95,444	-2.2	46.9	42.8	7.3	2,645
Columbus	49,616	-22.0	81.9	73.0	9.7	2,064
South-Western	19,336	+1.7	54.6	29.0	10.9	15
Hilliard	14,945	+21.1	22.4	21.3	7.3	-
Westerville	14,105	+8.6	28.3	35.1	7.3	18
Dublin	13,614	+22.6	14.0	29.2	8.0	11
Worthington	9,098	-8.8	23.4	26.0	4.8	-
Gahanna-Jefferson	7,028	+10.7	25.6	30.9	2.4	-
Reynoldsburg	5,811	+2.9	41.6	49.0	4.9	63
Groveport Madison	5,746	-0.3	58.0	46.6	3.1	454
Upper Arlington	5,542	+2.6	<5.0	10.3	1.1	-
New Albany-Plain	4,191	+116.3	7.0	23.2	1.9	-
Canal Winchester	3,446	+65.8	27.2	27.7	2.5	-
Hamilton	3,005	+13.9	61.6	20.5	1.1	-
Whitehall	2,818	-0.5	75.7	55.0	13.1	20
Bexley	2,130	-5.2	9.2	17.3	1.0	-
Grandview Heights	1,092	-11.4	18.0	8.5	0.0	-
All Ring 2 districts	127,117	+28.2	27.9	12.7	1.2	369
Columbus Area physical charter schools	22,326	-	79.7	82.8	-	-
Columbus Area students in e-charter schools	5,726	-	62.0	24.4	-	-

Source: Ohio Department of Education

Note: (1) For e-charters, enrollment is October 1 enrollment of students residing in Columbus Area districts; for all other districts, figure is average daily enrollment.

Columbus Area districts: school performance designations

ODE assigns annual report card ratings to school buildings and districts based on student performance and progress. In this report, rating letters of A+ to F are used to represent the six-level state performance designation system for school districts and buildings (Map 2 legend).

- Among the 44 Columbus Area districts, 33 had the two highest designations (Excellent or Excellent with Distinction) for school year 2010–2011. No districts had the lowest two designations of Academic Watch or Academic Emergency.

- CCS had a rating of Continuous Improvement, as did 8 of the other 15 Major Urban school districts (Table i) in Ohio. Only Springfield City and Cincinnati City were more highly rated.

- Of the 117 CCS school buildings in operation, 13 had the two highest state report card designations, and 50 had the two lowest designations.

Map 2. Columbus Area districts: ODE report card designations, school year 2010–2011
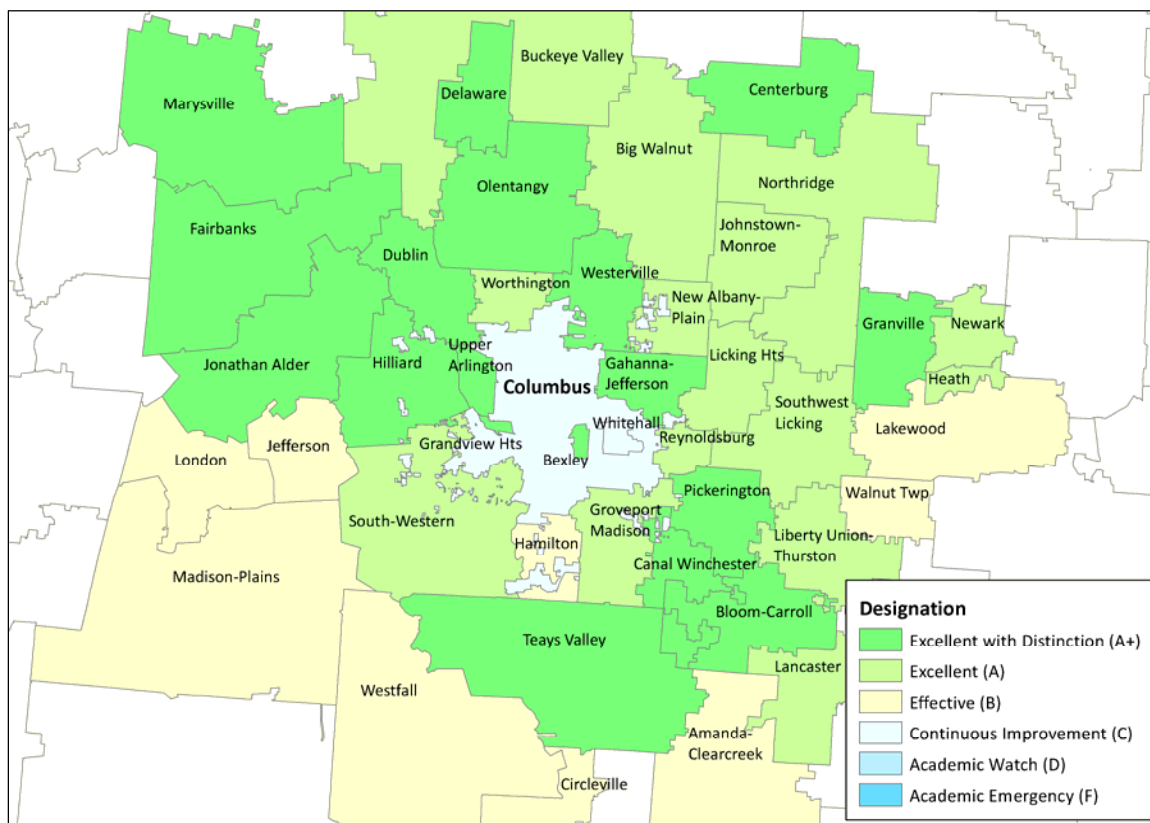
Source: Ohio Department of Education

Voucher holders

The Ohio Educational Choice Scholarship Program (EdChoice) provides students from underperforming public schools with the opportunity to attend participating private schools. Students currently attending—or who will be assigned to—a public school in their resident district that has been rated in Academic Emergency or Academic Watch for two of the past three years are eligible to apply. Students currently attending a charter school whose home school is an eligible school are also eligible.

In school year 2010-2011, there were more than 2,500 voucher holders whose district of residence was a Columbus Area district (Table 3). The district of residence of these voucher holders were:

- Columbus—2,460

- Groveport Madison—55

- South-Western—49

- Whitehall—12 to 20

The vouchers were used at 42 private schools (Table 3). These figures were prior to adoption of the state 2011-2012 budget, which tripled the number of vouchers available to Ohio students.

Table 3. School of attendance of Columbus Area EdChoice voucher holders, school year 2010–2011

School of attendance of voucher holders	Number of vouchers	School of attendance of voucher holders	Number of vouchers
St James The Less	341	Bishop Ready	31
All Saints Academy	243	Gloria S Friend Christian Academy	23
Harvest Preparatory School	179	St Anthony	23
Gahanna Christian Academy	153	Liberty Christian Academy - East Campus	18
Sonshine Christian Academy	144	Southeast Christian Academy	15
St Mary	142	Eastwood Seventh-day Adventist Junior Academy	14
Sunrise Academy	122	Cypress Christian	13
St Francis De Sales	114	St Paul Lutheran	12
St Mary Magdalene	99	Trinity	12
Tree Of Life-Northridge Branch	91	Worthington Christian High School	11
St Matthias	83	Children's Academy	< 10
Brice Christian Academy	79	Columbus Jewish Day School	< 10
Bishop Hartley	71	New Beginnings Christian	< 10
Harambee Christian	69	St Cecilia	< 10
Grove City Christian	68	St Charles Preparatory	< 10
Columbus Adventist Academy	60	St Timothy	< 10
Holy Spirt	56	Tree Of Life-Dublin Branch	< 10
Madison Christian School	52	Worthington Adventist Academy	< 10
Calumet Christian	39	Worthington Christian Kindergarten/Middle School	< 10
Columbus Torah Academy	37	Worthington Christian Westview Elementary School	< 10
Tree Of Life-Indianola Branch	35	Xenos Christian	< 10

Source: Ohio Department of Education

3.0 Magnitude of mobility

3.1 Section overview and key concepts

This section of the report examines how many students change schools, both during the school year and between school years. The school year is defined as the period from October 1 (the date that districts report enrollment to ODE) and May 15. Promotional moves (elementary to middle school; middle school to high school) are not included in these calculations. The magnitude of mobility is measured in two ways: (1) cohort stability and (2) churn. Both are calculated at the district and building levels.

This report provides an overview of the magnitude of mobility in Columbus Area schools. Additional cohort stability and churn data for districts, buildings, and charter schools can be found in the Appendix and in online spreadsheets www.researchpartners.org.

Cohort stability: measures retention of students over time

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

- **School District Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same district at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

- **School Building Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same building at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

Data notes

- A student who changed buildings within a district over two school years, but remained consistently enrolled in the district, is considered a stable student in the district-level stability calculation.

- Some building cohort instability is the result of changes in district programming that moves groups of students (e.g. LEP students) from one building to another.

- The analysis did not capture students who moved out of, and back into, a district or building during a school year (between October 1 and May 15)

Churn rate: measures movements into and out of a building or district

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

- **District churn rate:** The sum of all instances of district admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school year 2010-2011.

- **Building churn rate:** The sum of all instances of building admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school year 2010-2011.

Data notes

- A student's building enrollment Start Date that was fewer than 30 days following the Withdrawal Date from the same building was treated as continuous enrollment rather than an exit/reentry event.

- Because churn measures moves, individual students can be counted multiple times, each time they leave a district or building, and each time they enter a district or building, during a school year.

3.2   Student cohort stability

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

In the least stable Columbus Area districts, about one of every three students in a school at the beginning of a school year is not in that same building at the end of a second school year. The most stable districts lose fewer than one in ten students.

School district stability for Columbus Area districts grades K-7

Columbus City Schools

- Of the CCS October 2009 grades K-7 cohort, 76.5% of the students remained in the district over two years, and 67.4% remained in the same CCS building over two years (Map 3).

- Compared to the 15 districts designated as Major Urban by ODE, CCS had the 11th lowest district K-7 stability rate (Table i). Canton City School was most stable, with a rate of 82.0%, while East Cleveland Schools was the least stable, with a rate of 69.1%

Other Columbus Area districts

- Groveport Madison and Whitehall were other Ring 1 districts, in addition to CCS, with a district stability rate for grades K–7 that was below 70%.

- Grandview Heights, Upper Arlington, and Bexley were the most stable Ring 1 districts, with rates above 90%.

- Among Ring 1 and 2 districts with 50% or more economically disadvantaged students, Lancaster had the highest district stability rate (85.3%) and Circleville had the highest building stability rate (84.8%) for grades K–7.

Table 4. Columbus Area Ring 1 Districts: Two-year district and building stability for grades K–7

Districts	District Rating	District stability		Building stability (1)	
		October 2009 district cohort	In same district May 2011 (%)	October 2009 building cohort	In same building May 2011 (%)
Grandview Heights	A+	662	94.9	514	94.2
Upper Arlington	A+	2,937	94.1	2,621	93.6
Bexley	A+	1,224	93.5	1,071	93.0
New Albany-Plain	A	2,626	89.8	1,613	89.6
Dublin	A+	8,466	90.0	7,383	87.6
Hilliard	A+	9,344	90.6	7,038	85.8
Worthington	A	5,518	89.2	4,708	85.7
Gahanna-Jefferson	A+	4,107	88.4	3,556	85.2
Canal Winchester	A+	2,253	85.0	1,663	84.8
Westerville	A+	8,672	89.1	7,590	81.9
South-Western	A	12,222	83.1	8,982	76.4
Hamilton	B	1,915	77.4	1,392	75.9
Reynoldsburg	A	3,783	78.8	2,680	74.7
Groveport Madison	A	3,342	74.0	2,486	68.9
Whitehall	C	1,846	73.2	1,610	67.8
Columbus	C	32,509	76.5	26,951	67.4

More stable → Less stable (vertical axis label at right)

Source: CRP analysis of ODE enrollment records

(1) Excluded from the building cohort are students who would be expected to be promoted to a different building in year 2.
.

Map 3. Columbus Area: Two-year building stability rate for grades K–7, October 2009–May 2011

Source: CRP analysis of ODE enrollment records.

School district stability grades 8–11

Columbus City Schools

- CCS district and building two-year stability rates (70.4% and 61.8%, respectively) for grades 8–11 were lower than corresponding stability rates for grades K–7 (Table 5).

- Compared to the 15 districts designated as Major Urban by ODE, CCS had the 10th lowest district grades 8-11 stability rate (Table i). Canton City Schools were the most stable, with a rate of 80.2%, while Toledo City Schools were the least stable, with a rate of 60.1%

Other Columbus Area districts

- The Ring 1 districts Groveport Madison (61.0%), Whitehall (69.0%), and Hamilton Local (69.5%) had district stability rates for grades 8-11 that were 70% or less. Upper Arlington, Bexley, Grandview Heights, New Albany Plain, and Dublin had grades 8-11 district stability rates of 90% or greater.

- Of the Ring 2 districts, Newark (67.1%) and Walnut Township (70.4%) had district stability rates for grades 8-11 that were 70% or less. Granville (94.4%) and Olentangy (94.4%) were the only Ring 2 districts with grades 8-11 stability rates above 90%.

Table 5. Columbus Area Ring 1 Districts: Two-year district and building stability for grades 8–11

Districts	District rating	District stability		Building stability (1)	
		October 2009 district cohort	In same district May 2011 (%)	October 2009 building cohort	In same building May 2011 (%)
Upper Arlington	A+	1,691	95.3	1,270	95.7
Bexley	A+	681	94.7	539	95.0
Grandview Heights	A+	352	93.2	267	93.3
New Albany-Plain	A	1,167	91.5	853	91.7
Dublin	A+	4,275	91.6	3,211	91.2
Worthington	A	2,863	88.3	2,158	87.3
Hilliard	A+	4,635	88.8	3,444	86.4
Gahanna-Jefferson	A+	2,335	85.7	1,739	84.3
Westerville	A+	4,501	86.6	3,418	83.4
Canal Winchester	A+	1,046	82.0	764	81.7
South-Western	A	6,294	79.8	4,629	76.8
Hamilton	B	904	69.5	662	66.3
Reynoldsburg	A	1,874	72.5	1,354	62.8
Columbus	C	15,586	70.4	12,190	61.8
Whitehall	C	819	69.0	591	61.6
Groveport Madison	A	1,804	61.0	1,371	54.1

More stable → Less stable

Source: CRP analysis of ODE enrollment records

(1) Excluded from the building cohort are students who would be expected to be promoted to a different building in year 2.

Map 4. Columbus Area: Two-year building stability rate for grades 8–11, October 2009–May 2011

Source: CRP analysis of ODE enrollment records

Building stability for Columbus City Schools

Nearly all of the most stable CCS schools are alternative schools (Table 6). CCS buildings with the lowest stability rates lose approximately half of the students in a cohort over two school years (Table 7).

Table 6. CCS: 40 *most stable* school buildings, October 2009–May 2011

School building	Grade range	Rating	Econ. Disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
Indianola Informal School	K-8	A	36.7	511	90.6
Oakland Park Alternative Elementary	PK-5	C	72.1	252	89.7
Columbus Spanish Immersion Elementary School	K-8	B	80.8	366	88.8
Berwick Alternative Elementary School	PK-8	A	62.5	586	87.0
Arts Impact Middle School	6-8	C	80.6	336	86.9
Ecole Kenwood Alternative Elementary School	K-8	A	62.8	341	85.9
Duxberry Park Alternative Elementary School	PK-5	C	84.5	184	85.9
Columbus Alternative High School	9-12	A	61.0	478	81.6
Colerain Elementary School	PK-5	A+	60.4	151	81.5
Devonshire Alternative Elementary School	PK-5	C	76.1	392	81.4
Indian Springs Elementary School	K-5	A	49.2	350	80.9
Siebert Elementary School	PK-5	D	85.6	221	80.5
Stewart Alternative Elementary School @ Beck	K-5	C	75.7	235	80.0
Monroe Alternative Middle School	6-8	C	85.9	279	78.5
Ridgeview Middle School	6-8	A	56.2	338	78.4
Clinton Elementary School @ Old Hubbard	K-5	A+	39.4	309	78.3
Gables Elementary School	K-5	B	44.5	265	77.4
Fort Hayes Arts and Academic HS	9-12	B	70.3	517	76.6
Centennial High School	9-12	A	52.9	642	76.5
Dominion Middle School	6-8	B	66.4	373	75.6
Fifth Avenue International School	K-6	C	90.7	229	75.1
Wedgewood Middle School	6-8	C	79.4	398	74.9
Columbus Africentric Early College Elementary	K-5	F	>95.0	270	74.8
Woodward Park Middle School	6-8	C	85.7	571	74.8
Westgate Alternative Elementary School	PK-5	B	69.6	300	74.7
Scottwood Elementary School	PK-5	C	88.2	268	74.6
Columbus Africentric Early College	6-12	C	88.8	539	74.0
Alpine Elementary School	K-5	B	72.8	415	74.0
Northtowne Elementary School	PK-5	D	89.2	214	73.8
Avalon Elementary School	K-5	B	65.9	477	73.4
Binns Elementary School	K-5	C	77.0	213	73.2
Whetstone High School	9-12	A	58.6	825	73.2
Cedarwood Alternative Elementary @ Stockbridge	PK-5	B	79.1	278	73.0
Parsons Elementary School	PK-5	C	81.0	362	72.9
Forest Park Elementary School	K-5	C	84.4	306	72.2
Woodcrest Elementary School	PK-5	C	86.8	322	71.4
Maize Road Elementary School	PK-5	C	79.8	247	70.9
Northland High School	9-12	B	77.1	962	70.6
Huy Elementary School	PK-5	D	76.5	219	70.3
Mifflin Alternative Middle School	6-8	D	93.1	188	70.2

Source: CRP analysis of ODE enrollment records

Note: Table 6 is limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Table 7. CCS: 40 *least stable* school buildings, October 2009–May 2011

School building	Grade range	Rating	Econ. Disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
Fairwood Alternative Elementary School	PK-5	F	92.6	330	59.1
Marion-Franklin High School	9-12	C	84.4	831	59.1
Como Elementary School	PK-5	C	91.7	320	59.1
Lindbergh Elementary School	K-5	D	86.8	223	58.7
Fairmoor Elementary School	K-5	D	92.9	414	58.5
Yorktown Middle School	6-8	C	89.2	309	58.3
Champion Middle School	6-8	F	>95.0	194	58.2
Trevitt Elementary School	PK-5	F	93.0	172	58.1
North Linden Elementary School	K-5	D	88.6	222	58.1
Highland Elementary School	PK-5	F	94.1	273	57.5
Heyl Avenue Elementary School	PK-5	F	>95.0	174	57.5
Briggs High School	9-12	C	82.0	902	57.4
South Mifflin STEM Academy	PK-6	F	90.6	303	57.4
Mifflin High School	9-12	C	87.4	545	57.2
Moler Elementary School	PK-5	C	>95.0	114	57.0
Medina Middle School	6-8	D	93.9	225	56.9
Dana Avenue Elementary School	PK-5	D	>95.0	320	55.9
West High School	9-12	C	86.9	862	55.7
Beatty Park Elementary School	K-5	F	>95.0	81	55.6
Sullivant Elementary School	PK-5	F	>95.0	207	55.6
Liberty Elementary School	K-5	F	88.2	218	55.5
Oakmont Elementary School	K-5	D	>95.0	249	55.4
Linden-McKinley STEM School on Arcadia	7-12	D	94.3	493	55.0
Valley Forge Elementary School	PK-5	C	80.6	297	54.2
Windsor STEM Academy	PK-6	F	94.5	313	54.0
Avondale Elementary School	K-5	B	92.3	230	53.0
East High School	9-12	C	90.5	600	52.2
Starling Middle School	6-8	D	>95.0	200	50.5
Leawood Elementary School	PK-5	F	92.2	244	50.4
Hamilton STEM Academy	PK-6	D	93.9	356	50.3
Walnut Ridge High School	9-12	B	82.9	697	50.2
Brookhaven High School	9-12	D	87.5	741	49.9
Maybury Elementary School	K-5	B	85.8	275	49.8
Southmoor Middle School	6-8	D	>95.0	179	49.2
East Columbus Elementary School	PK-5	C	>95.0	317	48.9
South High School	9-12	D	90.6	448	48.9
Lincoln Park Elementary School	PK-5	D	89.9	271	46.5
Alum Crest High School	9-12	F	94.9	72	40.3
Clearbrook Middle School	6-8	F	90.6	31	38.7
Special Education Center	PK-12	NA	24.1	142	10.6

Source: CRP analysis of ODE enrollment records

Note: Table 7 is limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Building stability for charter schools

Stability rates for many of the public charter schools in the Columbus Area were low (Table 8). Only five of the largest charter schools had stability rates of 70% or more, while 30 schools had rates of less than 50%. The least stable charter schools are primarily dropout recovery schools

Table 8. Columbus Area: Stability rates for charter schools, October 2009–May 2011

School e-charters in italics *Dropout recovery school (District location if other than CCS)	Grade range	Rating	Econ. disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
Oakstone Community School	K-12	A	12.4	186	90.9
Wickliffe Progressive Community School (Upper Arlington)	K-5	A+	<5.0	410	90.7
Educational Academy for Boys and Girls	K-12	NA	81.5	30	83.3
Youthbuild Columbus Community*	9-12	A	80.6	119	74.8
Arts and College Preparatory Academy	9-12	A	55.4	196	70.4
Horizon Science Academy Elementary School	K-5	B	74.5	199	67.8
The Graham School	9-12	C	33.6	183	67.8
Horizon Science Acad. Columbus Middle School (Westerville)	6-8	B	93.5	147	65.3
Buckeye OnLine School for Success	K-12	C	30.2	220	63.6
Great Western Academy	K-8	B	65.4	781	63.5
Performance Academy Eastland	K-8	C	87.0	153	62.7
Cornerstone Academy Community (New Albany)	K-12	B	42.7	273	62.6
Columbus Preparatory Academy (South-Western)	K-12	A+	72.1	636	61.8
Horizon Science Academy Columbus	9-12	A	69.5	312	60.9
FCI Academy	K-12	C	87.6	395	60.0
KIPP: Journey Academy	5-8	B	92.2	131	58.8
Alternative Education Academy	K-12	D	52.9	228	57.5
Whitehall Preparatory and Fitness Academy	K-8	C	86.8	266	56.0
Par Excellence Academy (Newark)	K-6	B	62.1	142	55.6
Cesar Chavez College Preparatory School	K-5	D	90.2	36	55.6
Ohio Virtual Academy	K-12	B	45.2	1,591	55.2
Midnimo Cross Cultural Community School	K-12	F	89.9	131	55.0
Groveport Community School (Groveport Madison)	K-8	D	39.4	963	54.9
Academy of Columbus	K-8	F	89.9	345	54.2
Westside Academy	K-8	B	>95.0	133	54.1
Northland Preparatory and Fitness Academy	K-8	C	85.6	215	53.0
Educational Academy at Linden	K-12	D	20.8	99	51.5
Ohio Connections Academy, Inc.	K-12	B	49.7	323	50.8
Columbus Arts and Technology Academy	K-12	C	58.7	387	50.6
Charles School at Ohio Dominican University	9-12	B	61.2	253	50.6
Millennium Community School	K-8	C	81.2	640	50.0
Crittenton Community School	6-9	F	89.4	34	50.0
Columbus Bilingual Academy	K-8	C	94.1	160	50.0
Noble Academy-Columbus	K-12	B	80.1	138	48.6
Zenith Academy (Gahanna-Jefferson)	K-12	C	>95.0	361	48.5
International Academy Of Columbus (Worthington)	K-10	C	>95.0	194	48.5
Harrisburg Pike Community School	K-8	D	76.0	440	47.7
Gahanna Alternative Community School (Gahanna-Jefferson)	5-12	B	38.1	59	47.5
Sullivant Avenue Community School	K-5	C	73.9	429	45.9
Scholarts Preparatory and Career Center for Children	K-12	F	45.4	132	45.5
Virtual Community School Of Ohio	K-12	C	84.1	738	44.7
*Treca Digital Academy**	K-12	D	71.8	246	44.3
Columbus Humanities, Arts and Technology Academy	K-12	D	>95.0	351	42.7
W. C. Cupe College Preparatory School	K-12	NA	73.2	75	42.7
Electronic Classroom Of Tomorrow	K-12	C	75.3	2,164	42.6

More stable ↑

Less stable ↓

Table 8. Columbus Area: Stability rates for charter schools, October 2009–May 2011 *(continued)*

School *e-Charters in italics* *Dropout recovery school (District location if other than CCS)	Grade range	Rating	Econ. disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
Premier Academy of Ohio	7-12	D	94.8	225	42.2
South Scioto Academy	K-6	C	66.6	158	41.8
Columbus Collegiate Academy	6-8	B	93.4	86	40.7
A+ Arts Academy	K-12	B	88.0	155	40.0
C.M. Grant Leadership Academy	K-8	F	<5.0	161	39.1
*London Academy**	9-12	F	52.9	262	38.9
Providence Academy for Student Success	K-12	F	91.3	269	37.2
Newark Digital Academy	K-12	D	56.2	148	37.2
*Lancaster Digital Academy**	K-12	NA	74.0	83	36.1
Pschtecin Public School*	8-12	F	>95.0	75	32.0
Columbus Preparatory and Fitness Academy (South-Western)	K-8	D	85.3	91	31.9
Hamilton Local Digital Academy (Hamilton)*	K-12	C	33.3	103	31.1
Focus Learning Academy of Northern Columbus*	K-12	F	88.8	293	30.0
Focus Learning Academy of Southeastern Columbus*	9-12	F	92.0	212	17.0
Focus Learning Academy of Southwest Columbus*	9-12	D	89.9	274	13.9
Academic Acceleration Academy*	9-12	F	>95.0	17	11.8
Life Skills Center of Columbus Southeast*	9-12	C	79.4	232	10.3
Life Skills Center of Columbus North*	9-12	C	83.2	206	6.3

Source: CRP analysis of ODE enrollment records

Note: Table 8 is limited to charter schools with average daily enrollment of at least 50 students in school year 2010-2011, and in operation during both school years 2009-2010 and 2010-2011.

Less stable

3.3 Churn rate

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

District churn rate for Columbus Area districts

There were more than 20,000 admissions to and withdrawals from schools in the 16 Columbus Area Ring 1 districts during the 2010-2011 school year. For most of these districts, churn in grades K-8 resulted in a net gain of students (more admissions than withdrawals), while the churn in grades 9-12 produced a net loss of students (more withdrawals than admissions).

Columbus City Schools

- Among all of the Columbus Area Ring 1 districts, CCS had the greatest gap between the grades K-8 churn rate (18.5%) and the rate for grades 9-12 (23.5%) (Table 9).

- Compared to the 15 districts designated as Major Urban by ODE, CCS had the 5th highest grades K-8 churn rate and the 6th highest grades 9-12 churn rate (Table i). Akron City Schools had the lowest grades K-8 churn rate (12.3%), while East Cleveland City Schools had the greatest churn, with a rate of 23.9% for grades K-8. Cincinnati City Schools had the lowest churn rate for grades 9-12 (15.2%), and Toledo City School had the highest grades 9-12 rate (31.1%).

Other Columbus Area Districts

- Whitehall City, Groveport Madison, and Hamilton Local had churn rates of more than 20% for both grades K-8 and grades 9-12. Upper Arlington, Bexley, and Grandview Heights had churn rates of less than 5% for both grades K-8 and grades 9-12.

- In the Columbus Area, about half of all districts (23 of 44) have a higher churn rate for grades K–8 than for grades 9–12 (see Maps 5 and 6).

Table 9. Columbus Area Ring 1 Districts: One-year churn rates, grades K-8 and 9-12, school year 2010–2011

District	Grades K–8				Grades 9–12				K-12 churn rate (%)
	Oct. 2010 enrollment	Admits	With-drawals	Churn rate (%)	Oct. 2010 enrollment	Admits	With-drawals	Churn rate (%)	
Grandview Hts.	760	7	12	2.5	343	4	6	2.9	2.6
Bexley	1,408	26	18	3.1	689	8	11	2.8	3.0
Upper Arlington	3,370	71	50	3.6	1,801	19	26	2.5	3.2
New Albany-Plain	3,120	106	90	6.3	1,170	23	33	4.8	5.9
Hilliard	10,554	363	349	6.7	4,495	92	171	5.9	6.5
Worthington	6,227	216	234	7.2	2,814	51	144	6.9	7.1
Dublin	9,673	414	355	7.9	4,318	91	147	5.5	7.2
Gahanna-Jefferson	4,761	176	164	7.1	2,274	56	114	7.5	7.2
Westerville	9,975	404	398	8.0	4,505	146	252	8.8	8.3
Canal Winchester	2,495	113	125	9.5	1,009	36	58	9.3	9.5
Reynoldsburg	4,212	298	314	14.5	1,682	109	182	17.3	15.3
South-Western	13,688	975	1,031	14.7	6,299	417	709	17.9	15.7
Columbus	34,938	3,239	3,215	18.5	13,961	1,248	2,039	23.5	19.9
Whitehall	2,004	206	206	20.6	768	64	114	23.2	21.3
Groveport Madison	3,901	457	398	21.9	1,517	112	217	21.7	21.9
Hamilton	2,173	238	252	22.5	793	50	119	21.3	22.2
Total Ring 1	*113,259*	*7,309*	*7,211*		*48,438*	*2,526*	*4,342*		

Less churn

More churn

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2010–2011.

Maps 5 and 6. Columbus Area: One-year district churn rate for grades K–8 and 9–12, school year 2010–2011
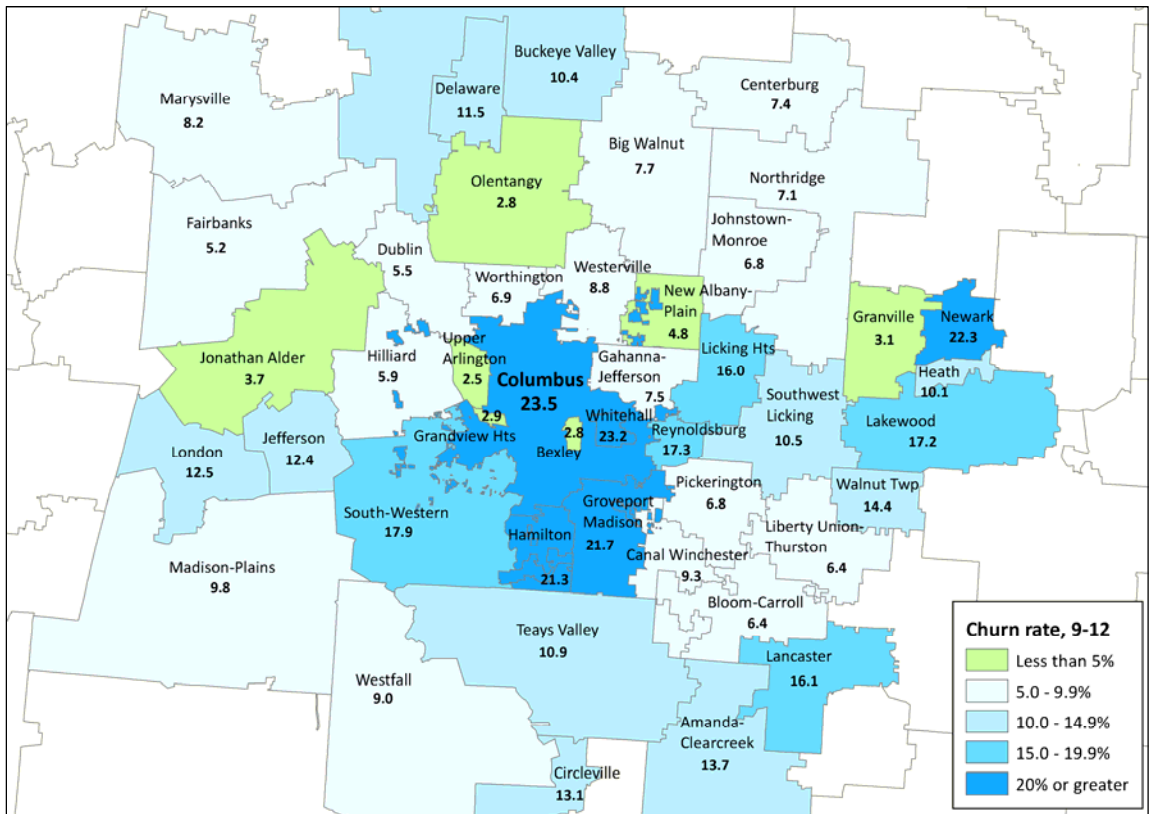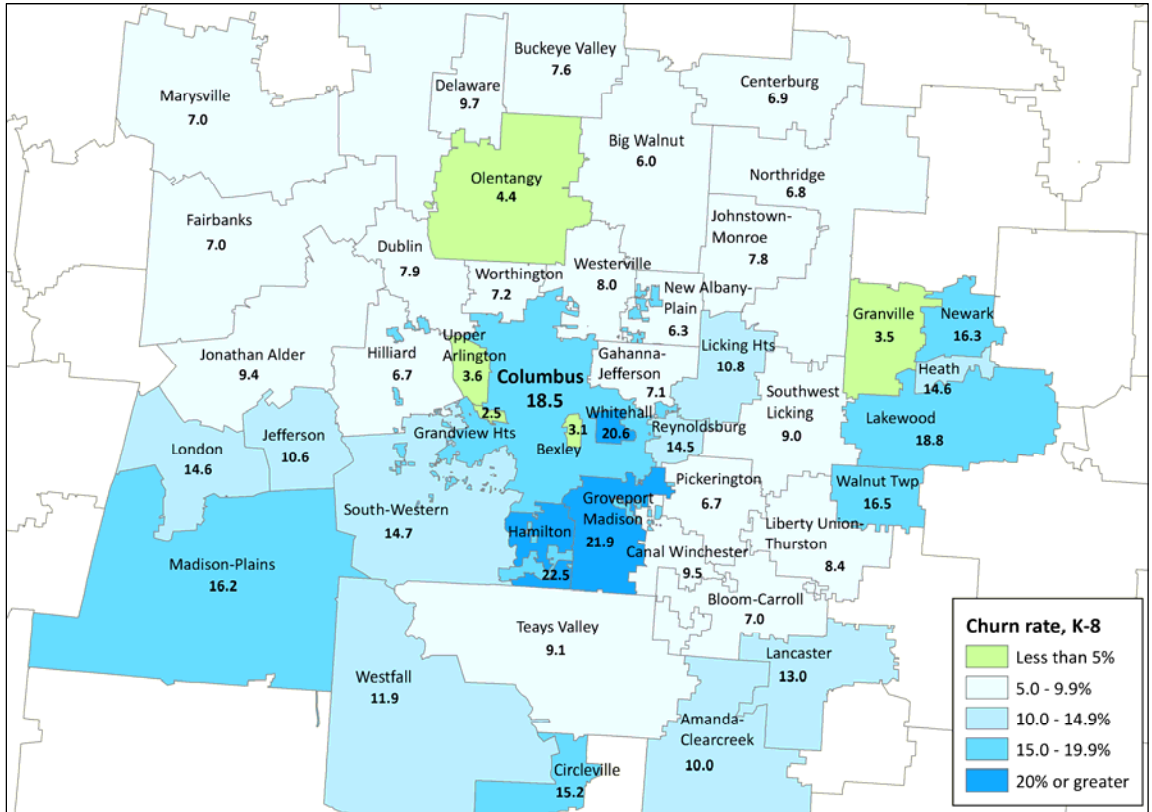
Source: CRP analysis of ODE enrollment records

Building churn rate for Columbus City Schools

Many of the CCS schools with low churn rates are alternative schools (Table 10). CCS buildings with the highest churn rates have school year admissions and withdrawals equivalent to more than one-third of total enrollment (Table 11).

Table 10. CCS: 40 *lowest* building churn rates, school year 2010–2011

School building	Grade range	Rating	Econ. Disadv. (%)	Oct. 2010 enrollment	Churn rate (%)
Ecole Kenwood Alternative Elementary School	K-8	A	62.8	358	2.2
Arts Impact Middle School (AIMS)	6-8	C	80.6	516	2.7
Columbus Spanish Immersion Elementary School	K-8	B	80.8	394	3.0
Columbus City Preparatory School for Girls	6	A	88.2	157	3.2
Indianola Informal School	K-8	A	36.7	579	4.0
Berwick Alternative Elementary School	PK-8	A	62.5	642	5.0
Columbus Alternative High School	9-12	A	61.0	624	5.9
Fort Hayes Arts and Academic HS	9-12	B	70.3	613	6.0
Stewart Alternative Elementary School at Beck	K-5	C	75.7	292	6.5
Clinton Elementary School @ Old Hubbard	K-5	A+	39.4	336	6.5
Oakland Park Alternative Elementary	PK-5	C	72.1	304	6.9
Columbus City Preparatory School for Boys	6	C	88.6	122	7.4
Columbus International High School	9	NA	80.4	173	8.1
Eastmoor Academy	9-12	B	72.3	716	8.2
Columbus Africentric Early College	6-12	C	88.8	594	8.2
Monroe Alternative Middle School	6-8	C	85.9	435	8.7
Duxberry Park Alternative Elementary School	PK-5	C	84.5	274	9.1
Columbus Africentric Early College Elementary	K-5	F	>95.0	287	9.4
Colerain Elementary School	PK-5	A+	60.4	175	9.7
Siebert Elementary School	PK-5	D	85.6	255	11.4
Devonshire Alternative Elementary School	PK-5	C	76.1	459	12.0
Ridgeview Middle School	6-8	A	56.2	503	12.7
Centennial High School	9-12	A	52.9	781	13.2
Indian Springs Elementary School	K-5	A	49.2	419	16.7
Woodcrest Elementary School	PK-5	C	86.8	363	16.8
Georgian Heights Alt Elem @ Old Wedgewood	K-5	B	67.7	391	17.1
Cedarwood Alternative Elementary @ Stockbridge	PK-5	B	79.1	350	17.7
Winterset Elementary School	PK-5	A	50.6	281	18.1
Wedgewood Middle School	6-8	C	79.4	526	18.3
Alpine Elementary School	K-5	B	72.8	497	18.3
Northtowne Elementary School	PK-5	D	89.2	256	18.4
Parsons Elementary School	PK-5	C	81.0	422	18.5
Fifth Avenue International School	K-6	C	90.7	350	18.6
Weinland Park Elementary School	PK-5	D	92.3	316	19.0
Olde Orchard Alt Elementary @ Old Shady Lane	K-5	C	76.1	446	19.3
Maize Road Elementary School	PK-5	C	79.8	298	20.8
Scottwood Elementary School	PK-5	C	88.2	350	20.9
Avalon Elementary School	K-5	B	65.9	558	21.1
Northland High School	9-12	B	77.1	1,071	21.2
Dominion Middle School	6-8	B	66.4	536	21.6

Source: CRP analysis of ODE enrollment records

Note: Tables 10 and 11 are limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Table 11. CCS: 40 *highest* building churn rates, school year 2010–2011

School building	Grade range	Rating	Econ. Disadv. (%)	Oct. 2010 enrollment	Churn rate (%)
Innis Elementary School	K-5	D	91.4	343	35.6
Brookhaven High School	9-12	D	87.5	713	35.8
Cassady Alternative Elementary School	K-5	D	92.8	347	36.0
Liberty Elementary School	K-5	F	88.2	277	36.1
Mifflin Alternative Middle School	6-8	D	93.1	537	37.1
Medina Middle School	6-8	D	93.9	483	37.9
Leawood Elementary School	PK-5	F	92.2	291	38.5
Salem Elementary School	K-5	C	86.3	357	39.2
Johnson Park Middle School	6-8	D	94.2	441	39.2
West Mound Elementary School	PK-5	C	94.4	428	39.3
Mifflin High School	9-12	C	87.4	676	40.1
West High School	9-12	C	86.9	942	40.2
Lindbergh Elementary School	K-5	D	86.8	283	40.3
Fairwood Alternative Elementary School	PK-5	F	92.6	372	40.3
Yorktown Middle School	6-8	C	89.2	454	41.0
Linden STEM Academy	PK-6	C	89.8	495	41.2
Southwood Elementary School	PK-5	C	88.7	299	41.5
Watkins Elementary School	PK-5	D	93.4	369	41.7
East Columbus Elementary School	PK-5	C	>95.0	336	42.3
Champion Middle School	6-8	F	>95.0	283	42.4
Walnut Ridge High School	9-12	B	82.9	754	43.0
Westmoor Middle School	6-8	C	93.4	520	43.7
Windsor STEM Academy	PK-6	F	94.5	346	44.5
Moler Elementary School	PK-5	C	>95.0	215	44.7
Broadleigh Elementary School	PK-5	F	90.4	256	44.9
West Broad Elementary School	PK-5	D	94.6	470	45.5
East Linden Elementary School	PK-5	F	>95.0	283	45.9
Beatty Park Elementary School	K-5	F	>95.0	102	46.1
Heyl Avenue Elementary School	PK-5	F	>95.0	260	46.5
Maybury Elementary School	K-5	B	85.8	315	46.7
Starling Middle School	6-8	D	96.5	281	47.0
Avondale Elementary School	K-5	B	92.3	274	48.2
Southmoor Middle School	6-8	D	>95.0	431	51.5
Highland Elementary School	PK-5	F	94.1	296	52.0
Hamilton STEM Academy	PK-6	D	93.9	438	53.4
Lincoln Park Elementary School	PK-5	D	89.9	308	55.2
Sullivant Elementary School	PK-5	F	>95.0	232	62.1
Linden-McKinley STEM School on Arcadia	7-12	D	94.3	802	64.8
Alum Crest High School	9-12	F	94.9	118	90.7
Special Education Center	PK-12	NA	24.1	148	182.4

Building churn rate for physical charter schools

Physical charter schools in the Columbus Area (Table 12) range from very high—primarily dropout recovery schools—to those with rates below 15%. The range of physical charter school turnover rates is similar to that of CCS buildings.

Table 12. Columbus Area: Churn rates for physical charter schools, school year 2010–2011

School (District location if other than CCS) *Dropout recovery school	Grade range	Rating	Econ. disadv. (%)	Oct. 2010 enrollment	Churn rate
W. C. Cupe College Preparatory School	K-12	NA	73.2	101	0.0
Wickliffe Progressive Community School (Upper Arlington)	K-5	A+	<5.0	493	4.3
Patriot Preparatory Academy	K-12	C	42.1	456	6.6
Horizon Science Academy Elementary School	K-5	B	74.5	300	7.0
Educational Academy at Linden	K-12	D	20.8	107	7.5
The Arch Academy*	8-12	NA	89.8*	76	11.8
Oakstone Community School	K-12	A	12.4	227	12.8
Great Western Academy	K-8	B	65.4	694	13.4
Columbus Bilingual Academy	K-8	C	94.1	205	13.7
New Beginnings Academy*	8-12	NA	88.1	56	14.3
Horizon Science Academy Columbus	9-12	A	69.5	377	14.6
Harrisburg Pike Community School	K-8	D	76.0	372	15.6
Par Excellence Academy (Newark)	K-6	B	62.1	135	16.3
Charles School at Ohio Dominican University	9-12	B	61.2	303	16.8
Educational Academy for Boys & Girls	K-12	NA	81.5	81	17.3
Academy of Columbus	K-8	F	89.9	315	17.8
KIPP: Journey Academy	5-8	B	92.2	211	18.5
Columbus Preparatory Academy (South-Western)	K-12	A+	72.1	674	18.5
Sullivant Avenue Community School	K-5	C	73.9	425	18.6
Graham Expeditionary Middle School	5-8	C	61.8	88	20.5
Whitehall Preparatory and Fitness Academy	K-8	C	86.8	283	20.5
A+ Arts Academy	K-12	B	88.0	283	21.2
Youthbuild Columbus Community*	9-12	A	80.6	275	21.5
Horizon Science Academy Columbus Middle School (Westerville)	6-8	B	93.5	321	22.4
Midnimo Cross Cultural Community School	K-12	F	89.9	133	22.6
Cornerstone Academy Community (New Albany-Plain)	K-12	B	42.7	392	22.7
Groveport Community School (Groveport Madison)	K-8	D	39.4	872	22.7
Columbus Bilingual Academy-North	K-8	D	91.1	123	22.8
Millennium Community School	K-8	C	81.2	658	23.1
The Graham School	9-12	C	33.6	237	23.6
Noble Academy-Columbus	K-12	B	80.1	185	24.3
Arts & College Preparatory Academy	9-12	A	55.4	255	25.1
Westside Academy	K-8	B	>95.0	143	25.9
Columbus Arts & Technology Academy	K-12	C	58.7	405	28.9
International Acad Of Columbus (Worthington)	K-10	C	>95.0	195	31.3
Columbus Preparatory and Fitness Academy (South-Western)	K-8	D	85.3	143	32.2
FCI Academy	K-12	C	87.6	390	32.3
Northland Preparatory and Fitness Academy	K-8	C	85.6	260	32.3
Columbus Collegiate Academy	6-8	B	93.4	103	33.0
Performance Academy Eastland	K-8	C	87.0	257	33.9
South Scioto Academy	K-6	C	66.6	162	38.9
Zenith Academy (Gahanna-Jefferson)	K-12	C	>95.0	305	39.3
Providence Academy for Student Success	K-12	F	91.3	213	39.4
C.M. Grant Leadership Academy	K-8	F	<5.0	170	40.0
Cesar Chavez College Preparatory School	K-5	D	90.2	72	41.7
Columbus Performance Academy (Gahanna-Jefferson)	K-8	NA	93.3	62	43.5
Columbus Humanities, Arts and Technology Academy	K-12	D	>95.0	399	44.6
Premier Academy of Ohio	7-12	D	94.8	216	54.6
Gahanna Alternative Community School (Gahanna-Jefferson)	5-12	B	38.1	94	63.8

Less churn ↑

More churn ↓

Table 12. Columbus Area: Churn rates for physical charter schools, school year 2010–2011 *(continued)*

School (District location if other than CCS) *Dropout recovery school	Grade range	Rating	Econ. disadv. (%)	Oct. 2010 enrollment	Churn rate
Scholarts Preparatory and Career Center for Children	K-12	F	45.4	180	64.4
Zenith Academy East	K-8	NA	>95.0	82	67.1
Pschtecin Public School*	8-12	F	>95.0	80	95.0
Crittenton Community School	6-9	F	89.4	81	95.1
Focus Learning Academy of Northern Columbus*	K-12	F	88.8	319	101.3
Cruiser Academy (Groveport Madison)*	9-12	F	17.9	173	109.2
Notten School for Science, Technology, Engineering and Math	K-12	NA	73.9	49	110.2
Academic Acceleration Academy*	9-12	F	>95.0	172	120.3
Focus Learning Academy of Southeastern Columbus*	9-12	F	92.0	223	151.6
Hamilton Local Digital Academy (Hamilton)*	K-12	C	33.3	81	167.9
Reynoldsburg Conversion Community School (Reynoldsburg)*	9-12	F	34.5	61	170.5
Life Skills Center of Columbus North*	9-12	C	83.2	191	175.4
Lancaster Fairfield Community School (Lancaster)*	9-12	C	77.7	32	181.3
Focus Learning Academy of Southwest Columbus*	9-12	D	89.9	290	181.7
Life Skills Center of Columbus Southeast*	9-12	C	79.4	229	229.3

More churn →

Source: CRP analysis of ODE enrollment records

Note: Table 12 is limited to charter schools with average daily enrollment of at least 50 students in school year 2010-2011. Appendix includes number of admissions and withdrawals per school that contribute to churn rate.

4.0 Mobility patterns

4.1   Section overview and key concepts

This section of the report examines the patterns of student movement between school districts and buildings and between public districts and charter schools, as well as the characteristics of origin and destination schools. The analysis of mobility patterns includes: (1) district and building mobility patterns, (2) report card ratings of origin and destination schools, and (3) inter-district open enrollment analysis.

This report provides an overview of mobility patterns among Columbus Area schools. Additional mobility pattern data for districts, buildings, and charter schools can be found in the Appendix and online spreadsheets www.researchpartners.org.

Mobility patterns: districts and buildings that exchange students

How many unique students did pairs of buildings or districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts and buildings?

- **District mobility patterns:** The number of unique students enrolled in two school districts, or a district and a charter school, at some point over two school years (2009-2010 and 2010-2011).
- **Building mobility patterns:** The number of unique students enrolled in two school buildings at some point over two school years (2009-2010 and 2010-2011), including buildings within the same district and buildings in different districts

Data notes

- The mobility patterns analysis includes all combinations of: public school districts and buildings, physical charter schools, and e-charter schools. Vocational schools are excluded. A small percentage of results from dual enrollment; however, most involve non-overlapping enrollment periods.
- A student is counted only once, even if they move between a pair of schools more than once.

Origin and destination ratings: report card rating of schools that exchange students

What is the performance rating of the destination school of mobile students, compared to that of the school of origin?

- **Origin and destination performance ratings:** The school year 2010-2011 state report card rating of the origin and destination schools for the most recent move of students who changed schools during a two school year period (2009-2010 and 2010-2011).

Data notes

- Statewide, 20% of students who withdraw from an Ohio public school have no enrollment destination information in EMIS the following October.

Inter-district open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

- **Open enrollment, incoming:** Number and percent of students attending a school in a district through open enrollment policy.
- **Open enrollment, outgoing:** Number and percent of public school students residing in a district, but attending a different district through open enrollment policy.

Data notes

- Open enrollment is the most common reason, but not the only reason, that a student may reside in one district, but attend another.

4.2   District mobility patterns

How many unique students did pairs of districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts?

District mobility patterns between Columbus City Schools and other districts

Over two school years, the 44 public districts in the Columbus Area exchanged 18,877 students. The largest numbers of exchanges were between districts in close proximity to each other, but CCS also exchanged students with other Major Urban districts across the state. Five districts exchanged at least 500 students with CCS over a two year period, led by South-Western (2,034), Groveport Madison (1,196), and Westerville (886) (Table 13; Maps 7 and 8). Nineteen Ohio districts exchanged at least 100 students with CCS over a two school year period, including Cleveland and Dayton.
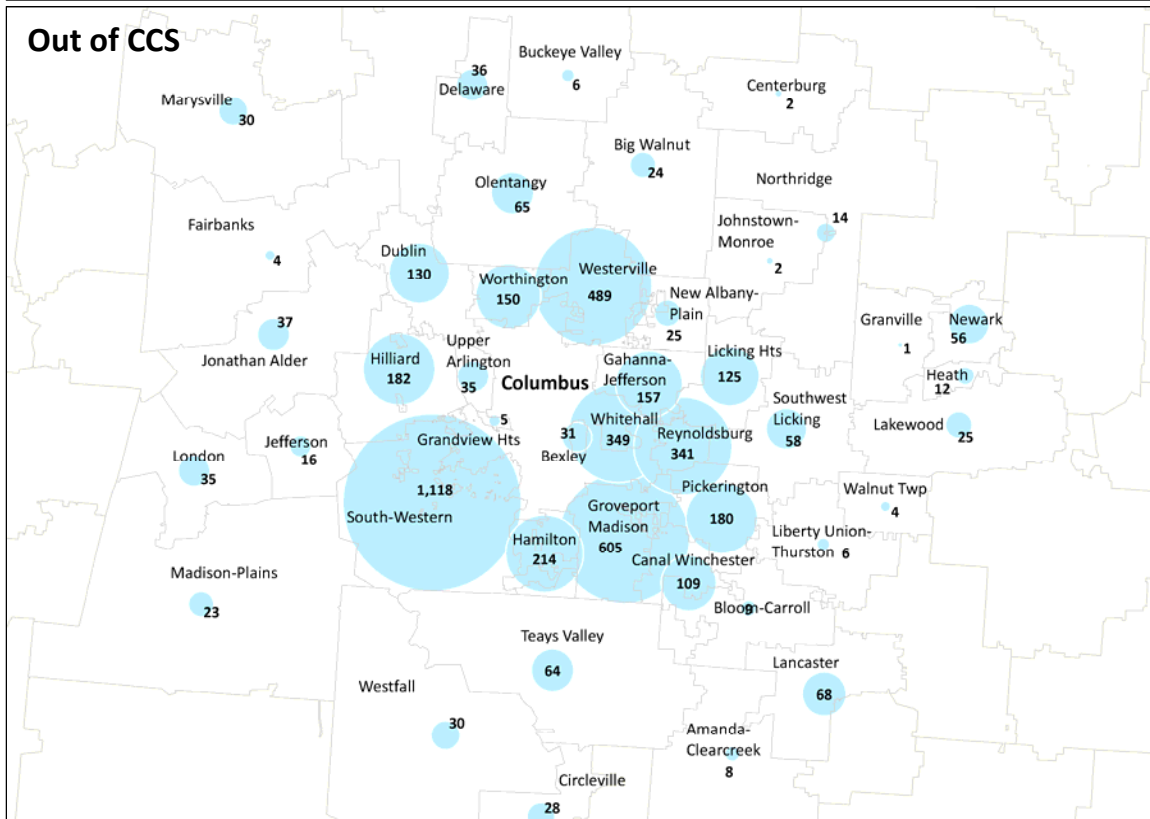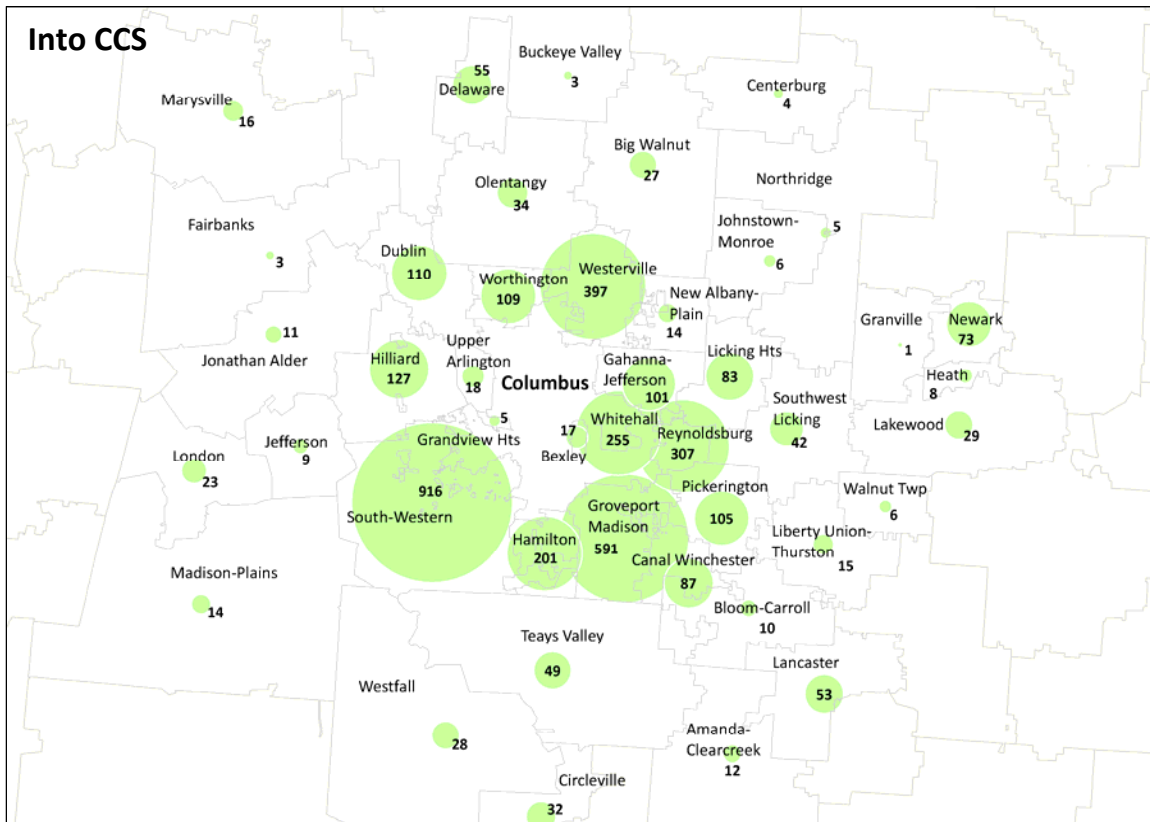
Table 13. Top 30 districts that exchanged students with CCS, October 2009–May 2011

District	Location	District rating	Econ. Disadv. (%)	Total students exchanged	Grades K–7		Grades 8–11	
					To CCS	From CCS	To CCS	From CCS
South-Western	Ring 1	A	54.6	2,034	670	807	246	311
Groveport Madison	Ring 1	A	58.0	1,196	403	450	188	155
Westerville	Ring 1	A+	28.3	886	274	357	123	132
Reynoldsburg	Ring 1	A	41.6	648	202	246	105	95
Whitehall	Ring 1	C	75.7	604	193	265	62	84
Hamilton	Ring 1	B	61.6	415	155	172	46	42
Hilliard	Ring 1	A+	22.4	309	97	144	30	38
Pickerington	Ring 2	A+	16.6	285	71	140	34	40
Worthington	Ring 1	A	23.4	259	73	117	36	33
Gahanna-Jefferson	Ring 1	A+	25.6	258	73	126	28	31
Dublin	Ring 1	A+	14.0	240	86	109	24	21
Licking Heights	Ring 2	A	39.3	208	48	91	35	34
Canal Winchester	Ring 1	A+	27.2	196	67	80	20	29
Newark	Ring 2	A	57.7	129	60	46	13	10
Cleveland	Other Ohio	D	>95.0	122	38	47	21	16
Lancaster	Ring 2	A	51.6	121	37	49	16	19
Teays Valley	Ring 2	A+	28.3	113	39	50	10	14
Dayton	Other	C	92.5	111	33	51	13	14
Southwest Licking	Ring 2	A	30.9	100	32	45	10	13
Olentangy	Ring 2	A+	7.4	99	25	49	9	16
Akron	Other Ohio	C	84.7	92	29	40	10	13
Delaware	Ring 2	A+	35.5	91	45	30	10	6
Toledo	Other Ohio	C	76.6	83	21	32	10	20
Springfield (Clark County)	Other Ohio	B	76.3	80	28	33	14	5
Youngstown	Other Ohio	D	91.9	74	19	28	10	17
Mansfield	Other Ohio	C	84.1	72	29	27	12	4
Zanesville	Other Ohio	C	64.6	67	19	26	9	13
Chillicothe	Other Ohio	B	60.2	64	25	30	3	6
Cincinnati	Other Ohio	B	69.7	63	16	23	13	11
Marion (Marion County)	Other Ohio	C	69.0	62	20	22	12	8
Total top 30 districts				*9,081*	*2,927*	*3,732*	*1,172*	*1,250*

Source: CRP analysis of ODE enrollment records

Notes: Grade is the student's highest grade level during school year 2009–10. A student may have been enrolled in another district, charter school, or outside the Ohio public system between the periods of enrollment in the districts paired above. For example, a student who moves from CCS to South-Western to Westerville schools would be included in two pairs: CCS/South-Western and CCS/Westerville. Totals include only those students for whom grade level is available for school year 2009–10.

Maps 7 and 8. Students moving between CCS and another district in the Columbus Area, October 2009–May 2011

Into CCS

Buckeye Valley

Marysville 16

Delaware 55
3

Centerburg 4

Big Walnut 27

Olentangy 34

Northridge

Johnstown-Monroe 5
6

Fairbanks 3

Dublin 110

Worthington 109

Westerville 397

New Albany-Plain 14

Granville 1

Newark 73

Jonathan Alder

Hilliard 127

Upper Arlington 18

Columbus

Gahanna-Jefferson 101

Licking Hts 83

Heath 8

Southwest Licking 42

Lakewood 29

Jefferson 9

Grandview Hts

5

17

Whitehall 255

Bexley

Reynoldsburg 307

London 23

916

South-Western

Groveport Madison

Pickering ton 105

Walnut Twp 6

Liberty Union-Thurston 15

Hamilton 201

591

Canal Winchester 87

Madison-Plains 14

Bloom-Carroll 10

Teays Valley 49

Lancaster 53

Westfall

28

Amanda-Clearcreek 12

Circleville 32

Out of CCS

Buckeye Valley

Delaware 36
6

Centerburg 2

Marysville 30

Big Walnut 24

Olentangy 65

Northridge

Johnstown-Monroe 14
2

Fairbanks 4

Dublin 130

Worthington 150

Westerville 489

New Albany-Plain 25

Granville 1

Newark 56

37

Jonathan Alder

Hilliard 182

Upper Arlington 35

Columbus

Gahanna-Jefferson 157

Licking Hts 125

Heath 12

Southwest Licking 58

Lakewood 25

Jefferson 16

Grandview Hts

5

31

Whitehall 349

Bexley

Reynoldsburg 341

London 35

1,118

South-Western

Groveport Madison

Pickerington 180

Walnut Twp 4

Liberty Union-Thurston 6

Hamilton 214

605

Canal Winchester 109

Madison-Plains 23

Bloom-Carroll

Teays Valley 64

Lancaster 68

Westfall 30

Amanda-Clearcreek 8

Circleville 28

Source: CRP analysis of ODE enrollment records

District mobility patterns among Columbus Area districts

Over two years, there were 7,238 student exchanges among the 25 largest Columbus Area districts (excluding CCS) (Table 14). The South-Western, Groveport Madison, Reynoldsburg, Westerville, and Hilliard districts had the most inter-district exchanges. Districts that exchanged more than 150 students were South-Western and Hilliard, South-Western and Groveport Madison, Groveport Madison and Reynoldsburg, Dublin and Hilliard, and Groveport Madison and Hamilton Local.

Table 14. Columbus Area largest 25 districts (excluding CCS): Students exchange between pairs of districts, October 2009–May 2011

ORIGIN DISTRICT \ DESTINATION DISTRICT	Big Walnut	Buckeye Valley	Canal Winchester	Delaware	Dublin	Gahanna-Jefferson	Granville	Groveport Madison	Hamilton Local	Hilliard	Lancaster	Licking Hts	Marysville	New Albany-Plain	Newark	Olentangy	Pickerington	Reynoldsburg	Southwest Licking	South-Western	Teays Valley	Upper Arlington	Westerville	Whitehall	Worthington
Big Walnut		2	-	19	4	8	-	2	-	6	4	8	-	4	1	6	3	2	2	11	1	2	30	4	7
Buckeye Valley	11		-	64	7	-	2	-	-	1	-	-	11	-	1	8	2	-	-	-	1	-	3	3	6
Canal Winchester	-	-		-	-	6	-	55	11	3	18	11	5	5	-	4	34	21	7	10	8	3	7	10	3
Delaware	12	70	3		15	4	3	6	3	8	5	6	17	2	5	47	1	2	6	12	3	-	16	2	12
Dublin	5	2	2	4		11	3	7	4	72	1	3	15	6	1	74	6	12	1	43	2	10	22	1	57
Gahanna-Jefferson	2	-	5	8	11		2	19	5	11	8	26	2	18	9	8	31	23	12	29	3	4	39	10	5
Granville	-	-	-	-	-	1		-	-	-	-	-	-	2	5	4	2	-	2	1	-	-	6	-	7
Groveport Madison	1	2	61	8	7	22	-		87	8	15	22	1	2	9	7	63	75	21	107	13	3	40	35	18
Hamilton Local	-	1	6	-	5	4	-	67		5	4	9	-	-	4	3	12	20	4	65	25	1	4	3	1
Hilliard	6	1	4	8	81	7	4	23	13		-	4	15	5	3	30	17	7	2	197	10	13	41	4	11
Lancaster	5	-	11	3	3	1	-	16	8	1		6	6	-	10	3	26	16	8	15	16	1	4	6	1
Licking Hts	2	-	6	9	7	50	-	20	8	9	2		-	2	6	7	22	31	41	13	4	-	15	9	6
Marysville	1	8	-	12	22	4	-	1	-	12	4	-		5	-	8	7	1	-	18	1	-	5	-	3
New Albany-Plain	4	-	1	2	2	10	3	1	1	1	1	4	-		-	22	3	1	1	3	1	4	26	3	2
Newark	1	-	4	-	4	5	11	4	9	8	17	8	6	6		5	8	6	34	13	3	-	6	8	1
Olentangy	14	8	4	28	21	9	3	3	1	21	2	2	7	8	3		11	1	1	13	1	1	32	-	23
Pickerington	2	1	20	1	14	15	2	52	9	9	15	18	-	8	5	18		50	17	35	2	2	14	7	8
Reynoldsburg	1	-	39	12	15	46	-	88	13	13	11	75	6	7	14	11	94		39	38	5	1	34	48	14
Southwest Licking	2	-	7	2	3	7	9	19	3	7	7	20	5	1	28	5	17	24		22	2	-	11	4	3
South-Western	8	12	22	11	43	17	1	65	73	222	35	25	16	4	13	34	37	35	9		77	15	61	25	37
Teays Valley	-	2	5	1	2	7	-	28	33	9	13	4	3	-	-	5	4	6	-	61		-	4	6	2
Upper Arlington	1	1	-	-	6	2	1	-	-	6	-	-	2	1	-	2	1	1	-	7	1		3	2	6
Westerville	34	3	9	20	31	65	3	33	7	28	1	19	5	33	3	56	15	33	2	60	-	4		9	53
Whitehall	-	-	5	-	-	19	-	63	18	10	4	7	2	2	2	1	13	39	5	29	5	1	17		7
Worthington	6	5	3	15	52	13	3	16	1	11	4	11	13	4	3	85	6	18	1	24	2	5	53	4	

Source: CRP analysis of ODE enrollment records

District mobility patterns between Columbus City Schools and charter schools

Over two years, the 30 largest charter schools exchanged a total of 6,905 students with CCS schools (Table 15). Eighteen charter schools exchanged at least 150 students with CCS, led by eCOT (1,591) and Millennium Community School (356). Three e-charters were among top five charter schools that exchanged students with CCS. For grades K-7, more students came to CCS from charter schools (1,812) than went to charter schools from CCS (1,716). For grades 8-11, 2.5 students went to a charter school from CCS (2,402) for every one student that came to CCS (939) from a charter school.

Table 15. Top 30 charter schools in students exchanged with CCS, October 2009–May 2011

Charter school *e-charters in italics* *Dropout recovery school	Rating	Econ. disadv. (%)	Total students exchanged	Grades K–7		Grades 8–11	
				To CCS	From CCS	To CCS	From CCS
Electronic Classroom Of Tomorrow	C	76.9	1,591	234	334	257	766
Millennium Community School	C	81.2	356	211	115	28	2
Focus Learning Academy of Southwest Columbus*	D	89.9	304	0	0	31	273
Virtual Community School Of Ohio	C	79.2	297	40	57	74	126
Ohio Virtual Academy	B	55.3	279	87	106	40	46
Academic Acceleration Academy*	F	>95.0	266	0	0	10	256
FCI Academy	C	87.6	228	78	72	46	32
Columbus Humanities, Arts and Technology Academy	D	>95.0	224	132	74	15	3
Providence Academy for Student Success	F	91.3	219	64	58	49	48
Focus Learning Academy of Northern Columbus*	F	88.8	201	21	25	24	131
Horizon Science Academy Cols. Middle School	B	93.5	187	42	117	23	5
Life Skills Center of Columbus Southeast*	C	79.4	179	0	0	23	156
Columbus Arts and Technology Academy	C	58.7	174	99	56	19	0
Focus Learning Academy of Southeastern Columbus*	F	92.0	174	0	0	19	155
KIPP: Journey Academy	B	92.2	173	65	108	0	0
Premier Academy of Ohio	D	94.8	166	19	36	54	57
Life Skills Center of Columbus North*	C	83.2	164	0	0	30	134
Harrisburg Pike Community School	D	76.0	152	108	44	0	0
C.M. Grant Leadership Academy	F	<5.0	144	88	56	0	0
A+ Arts Academy	B	88.0	143	44	72	25	2
Academy of Columbus	F	89.9	142	75	46	21	0
Columbus Preparatory Academy	A+	72.1	140	80	42	18	0
Treca Digital Academy	D	72.4	137	11	18	24	84
South Scioto Academy	C	66.6	134	89	45	0	0
Columbus Collegiate Academy	B	93.4	131	77	54	0	0
Northland Preparatory and Fitness Academy	C	85.6	131	55	65	7	4
Crittenton Community School	F	89.4	120	8	50	23	39
Groveport Community School	D	39.4	118	86	16	15	1
Horizon Science Academy Columbus	A	69.5	116	0	0	50	66
Scholarts Preparatory and Career Center for Children	F	45.4	115	35	50	14	16
Total top 30 charter schools			*6,905*	*1,848*	*1,716*	*939*	*2,402*

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2009–2010.

Columbus City Schools mobility patterns summary: other districts and charters

Over two school years, 16,742 unique students transferred between CCS and another Ohio district or charter school (Table 16). Of these:

- 55% moved to or from another district
- 33% moved to or from a physical charter school
- 12% moved to or from an e-charter school

The largest number of moves to and from other districts or charters occurred among 9th grade students (1,804), followed by kindergarten (1,446), 1st grade (1,428), and 5th grade (1,423).

Table 16. Students moving into or out of CCS by grade and origin/destination type, Oct. 2009–May 2011

Grade	Another public district		Physical charter school		E-charter school	
	To CCS	From CCS	To CCS	From CCS	To CCS	From CCS
All grades	3,389	5,824	2,086	3,486	538	1,419
K	332	612	236	216	18	32
1	349	613	210	208	20	28
2	333	587	170	220	28	27
3	303	527	183	191	26	30
4	287	561	147	199	23	34
5	219	565	164	364	32	79
6	288	415	212	214	52	108
7	214	418	133	172	69	132
8	165	429	221	208	78	184
9	295	367	145	525	93	379
10	214	256	79	397	55	204
11	140	142	48	290	28	121
12	44	57	26	185	7	36
NA	206	275	112	97	9	25

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2009–2010; NA- grade level not available.

4.3   Building mobility patterns

How many unique students did pairs of buildings have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these buildings?

Exchanges between Columbus City Schools buildings and buildings in other districts

Because of their size, the largest numbers of CCS inter-district building moves occurred at the high school level. Only four of the top 30 exchanges involved elementary schools. CCS Independence, West, Briggs, and Walnut Ridge high schools exchanged a total of at least 75 students each with high schools in the Groveport Madison, South-Western, Whitehall, and Reynoldsburg districts (Table 17).

Table 17. CCS and other districts: 30 building pairs that exchanged the most students, October 2009–May 2011

CCS school building (X)	Rating of Building X	School building in another district (Y)	District of Building Y	Rating of Building Y	Students exchanged
Independence High	D	Groveport Madison High	Groveport Madison	B	61
Briggs High	C	Westland High	South-Western	C	51
West High	C	Westland High	South-Western	C	46
Briggs High	C	Franklin Heights High	South-Western	C	40
Walnut Ridge High	B	Groveport Madison High	Groveport Madison	B	36
West High	C	Franklin Heights High	South-Western	C	36
Briggs High	C	Central Crossing High	South-Western	C	31
Marion-Franklin High	C	Groveport Madison High	Groveport Madison	B	31
Walnut Ridge High	B	Whitehall Yearling High	Whitehall	B	29
Walnut Ridge High	B	Reynoldsburg High	Reynoldsburg	A	28
Independence High	D	Reynoldsburg High	Reynoldsburg	A	28
Hilltonia Middle	D	Norton Middle	South-Western	A	27
Sherwood Middle	D	Rosemore Middle	Whitehall	C	25
West High	C	Central Crossing High	South-Western	C	24
Parsons Elementary	C	Hamilton Intermediate	Hamilton	B	24
West Broad Elementary	D	Stiles Elementary	South-Western	C	24
Hilltonia Middle	D	Finland Middle	South-Western	C	23
Buckeye Middle	D	Hamilton Middle	Hamilton	B	22
Cedarwood Alternative Elementary at Stockbridge	B	Hamilton Intermediate	Hamilton	B	21
Wedgewood Middle	C	Pleasant View Middle	South-Western	B	20
Westmoor Middle	C	Pleasant View Middle	South-Western	B	20
Hilltonia Middle	D	Galloway Ridge Intermed.	South-Western	A	19
Valleyview Elementary	B	Stiles Elementary	South-Western	C	19
Marion-Franklin High	C	Hamilton Township High	Hamilton	A	18
Parsons Elementary	C	Hamilton Elementary	Hamilton	A	18
Beechcroft High	C	Westerville Central High	Westerville	A	18
Westmoor Middle	C	Norton Middle	South-Western	A	18
Burroughs Elementary	F	West Franklin Elementary	South-Western	A	18
South High	D	Groveport Madison High	Groveport Madison	B	18
Yorktown Middle	C	Baldwin Road Junior High	Reynoldsburg	B	17

Source: CRP analysis of ODE enrollment records

Exchanges between Columbus City Schools buildings and physical charter schools

Over two years, the CCS buildings and the physical charter schools that exchanged the most students exchanged a total of 905 students (Table 18). Of these, 77% involved exchanges between a CCS high school and a dropout recovery charter school. Millenium Community School exchanged 118 students with five CCS elementary schools.

Table 18. CCS and physical charter schools: 30 building pairs that exchanged the most students, October 2009–May 2011 (1)

CCS school building (X)	Rating Bldg. X	Physical charter school (Y) *Dropout recovery school	Rating Bldg. Y	Students exchanged
Marion-Franklin High School	C	Focus Learning Academy of Southwest Columbus*	D	72
West High School	C	Focus Learning Academy of Southwest Columbus*	D	52
South High School	D	Focus Learning Academy of Southwest Columbus*	D	52
Brookhaven High School	D	Academic Acceleration Academy*	F	47
Beechcroft High School	C	Academic Acceleration Academy*	F	44
Walnut Ridge High School	B	Focus Learning Academy of Southeastern Columbus*	F	41
Walnut Ridge High School	B	Life Skills Center of Columbus Southeast*	C	37
Independence High School	D	Focus Learning Academy of Southeastern Columbus*	F	35
Briggs High School	C	Focus Learning Academy of Southwest Columbus*	D	32
Leawood Elementary School	F	Millennium Community School	C	31
Northland High School	B	Life Skills Center of Columbus North*	C	28
East High School	C	Focus Learning Academy of Southwest Columbus*	D	27
Woodward Park Middle School	C	Horizon Science Academy Columbus Middle School	B	27
Brookhaven High School	D	Life Skills Center of Columbus North*	C	26
East High School	C	Focus Learning Academy of Southeastern Columbus*	F	26
Eastmoor Academy	B	Academic Acceleration Academy*	F	25
Independence High School	D	Life Skills Center of Columbus Southeast*	C	24
Maybury Elementary School	B	Millennium Community School	C	24
Northland High School	B	Focus Learning Academy of Northern Columbus*	F	23
Northland High School	B	Horizon Science Academy Columbus	A	23
Georgian Heights Alt Elementary School at Old Wedgewood MS	B	Columbus Preparatory Academy	A+	22
Fairmoor Elementary School	D	Millennium Community School	C	22
Sherwood Middle School	D	Millennium Community School	C	21
Briggs High School	C	Academic Acceleration Academy*	F	21
Marion-Franklin High School	C	Academic Acceleration Academy*	F	21
East High School	C	Life Skills Center of Columbus Southeast*	C	21
Sherwood Middle School	D	Premier Academy of Ohio	D	21
Liberty Elementary School	F	Millennium Community School	C	20
Centennial High School	A	Academic Acceleration Academy*	F	20
Brookhaven High School	D	Focus Learning Academy of Northern Columbus*	F	20

Source: CRP analysis of ODE enrollment records

(1) E-charters were not included in this analysis, because of the high number of students exchanged between CCS buildings ECOT. If ECOT had been included, most of the exchange pairs in the table would have included ECOT.

Exchanges between Columbus City Schools buildings

Over the two school years, 5,389 CCS students made a non-promotional change of school within the CCS district. Of the exchanges in Table 19, Walnut Ridge High was the most frequent receiving school, followed by Mifflin High, West High, and West Broad Elementary. The most frequent sending schools were Brookhaven High, East High, Marion-Franklin High, and Burroughs Elementary.

Table 19. CCS: 30 building pairs that exchanged the most students, October 2009–May 2011

CCS school building (X)	Rating of Building X	CCS school building (Y)	Rating of Building Y	Students exchanged
Briggs High	C	West High	C	84
Mifflin High	C	Walnut Ridge High	B	42
Marion-Franklin High	C	South High	D	41
Brookhaven High	D	Mifflin High	C	40
Burroughs Elementary	F	West Broad Elementary	D	39
Buckeye Middle	D	Southmoor Middle	D	38
East High	C	Walnut Ridge High	B	37
Independence High	D	Walnut Ridge High	B	36
East High	C	Linden-McKinley STEM on Arcadia	D	35
Hilltonia Middle	D	Westmoor Middle	C	33
Brookhaven High	D	Northland High	B	30
Linden-McKinley STEM on Arcadia	D	Mifflin High	C	30
South High	D	West High	C	30
Burroughs Elementary	F	Highland Elementary	F	29
Hilltonia Middle	D	Starling Middle	D	29
Valleyview Elementary	B	West Broad Elementary	D	28
Brookhaven High	D	Linden-McKinley STEM on Arcadia	D	27
Fairwood Alternative Elementary	F	Ohio Avenue Elementary	D	27
Marion-Franklin High	C	Walnut Ridge High	B	26
Sherwood Middle	D	Yorktown Middle	C	26
Southmoor Middle	D	Starling Middle	D	26
Brookhaven High	D	East High	C	25
East High	C	Independence High	D	25
Highland Elementary	F	West Broad Elementary	D	25
Independence High	D	Marion-Franklin High	C	25
Linden-McKinley STEM on Arcadia	D	Medina Middle	D	25
South High	D	Walnut Ridge High	B	25
Avondale Elementary	B	Dana Avenue Elementary	D	24
Brookhaven High	D	Independence High	D	23
Beechcroft High	C	Mifflin High	C	22

Source: CRP analysis of ODE enrollment records

4.4   Origin and destination performance ratings

What is the performance rating of the destination school of mobile students, compared to the rating of the school of origin?

Tables 20-25 display the school year 2010–2011 state report card performance rating of the origin school and destination school for the most recent move a student made over a two school year period, where one of the schools was in the CCS district. Green table cells denote a destination school that is at least two ratings higher than the origin school, and orange cells denote a destination that is at least two rating lower than the origin schools. These tables exclude school changes involving a building with no rating available.

Exiting Columbus City Schools for another district

Of the 5,473 students over two years who exited CCS for another district, 52.1% moved to a school with a performance rating at least two ratings *higher* than their CCS school of origin, while 2.0% moved to a school with a rating two or more ratings *lower* than their school of origin.

Table 20. Rating of origin and destination buildings for students *exiting* CCS for another district, Oct. 2009–May 2011

n=5,473 moves	Rating of **DESTINATION** school in other Ohio district					
Rating of **ORIGIN** CCS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	15	26	10	2	0	0
Excellent (A)	47	187	60	36	5	3
Effective (B)	88	409	215	121	35	6
Continuous Improvement (C)	183	693	550	378	51	14
Academic Watch (D)	140	658	518	302	70	30
Academic Emergency (F)	60	226	180	105	40	10

Source: CRP analysis of ODE enrollment records

Entering Columbus City Schools from another district

Of the 3,230 students over two years who entered CCS from another district, 1.5% moved to a CCS school with a performance rating at least two ratings *higher* than their school of origin, while 54.6% moved to a CCS school with a rating two or more ratings *lower* than their school of origin.

Table 21. Rating of origin and destination buildings for students *entering* CCS from another district, Oct. 2009–May 2011

n=3,230 moves	Rating of **DESTINATION** CCS school					
Rating of **ORIGIN** school in other Ohio district	A+	A	B	C	D	F
Excellent with Distinction (A+)	3	24	48	81	102	25
Excellent (A)	8	84	200	431	406	136
Effective (B)	4	54	152	285	364	116
Continuous Improvement (C)	0	17	89	207	188	54
Academic Watch (D)	0	0	13	37	48	15
Academic Emergency (F)	1	0	4	8	19	7

Source: CRP analysis of ODE enrollment records

Exiting Columbus City Schools for a charter school

Of the 4,450 students over two years who left CCS for a charter school, 14.2% moved to a charter school with a performance rating at least two ratings *higher* than their CCS school of origin, while 17.4% moved to a charter school with a rating two or more ratings *lower* than their school of origin.

Table 22. Rating of origin and destination buildings for students *exiting* CCS for a public charter school (including e-charters), October 2009–May 2011

n=4,450 moves	Rating of **DESTINATION** charter school					
Rating of **ORIGIN** CCS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	1	0	5	2	0	2
Excellent (A)	4	13	51	131	13	71
Effective (B)	18	38	90	300	83	145
Continuous Improvement (C)	10	64	215	726	310	322
Academic Watch (D)	11	36	221	657	192	290
Academic Emergency (F)	4	4	99	166	66	90

Entering Columbus City Schools from a charter school

Of the 2,425 students over two years who entered CCS from a charter school, 11.7% moved to a CCS school with a performance rating at least two ratings *higher* than their school of origin, while 19.0% moved to a CCS school with a rating two or more ratings *lower* than their school of origin.

Table 23. Rating of origin and destination buildings for students *entering* CCS from a public charter school (including e-charters), October 2009–May 2011

n=2,425	Rating of **DESTINATION** CCS school					
Rating of **ORIGIN** charter school	A+	A	B	C	D	F
Excellent with Distinction (A+)	1	2	21	20	14	5
Excellent (A)	0	5	18	18	17	0
Effective (B)	0	27	55	147	160	45
Continuous Improvement (C)	0	72	109	384	376	161
Academic Watch (D)	0	11	43	149	157	70
Academic Emergency (F)	0	8	49	100	131	50

Moving between Columbus City Schools buildings

Of the 5,221 students over two years who made a non-promotional move from one CCS building to another, 13.0% moved to a building with a performance rating at least two ratings *higher* than their CCS school of origin, while 13.7% moved to a building with a rating two or more ratings *lower* than their school of origin.

Table 24. Rating of origin and destination buildings for students changing schools *within* the CCS district, October 2009–May 2011

n=5,221 moves	Rating of **DESTINATION** CCS school					
Rating of **ORIGIN** CCS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	3	9	3	8	5	0
Excellent (A)	3	28	22	78	56	15
Effective (B)	0	26	61	230	214	77
Continuous Improvement (C)	9	82	203	481	526	258
Academic Watch (D)	4	74	188	613	673	377
Academic Emergency (F)	0	13	69	239	371	203

Summary of destination performance ratings

Table 25. Summary: Rating of destination buildings for CCS students changing schools, October 2009–May 2011

Type of move	Number of student movers	Rating of destination school compared to school of origin		
		2 or more ratings lower (% of movers)	Same rating or 1 rating higher/lower (% of movers)	2 or more ratings higher (% of movers)
Exiting CCS for another district	5,473	2.0	45.9	52.1
Entering CCS from another district	3,230	54.6	44.0	1.5
Exiting CCS for a charter school	4,450	17.4	68.4	14.2
Entering CCS from a charter school	2,425	19.0	69.3	11.7
Changing schools within CCS	5,221	13.7	73.3	13.0

4.5   Open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

As of school year 2010–2011, CCS was surrounded by districts that did not accept open enrollment students from other districts. However, many districts in the Columbus Area—particularly those in Ring 2—do permit open enrollment (Map 9). Nine pairs of districts had at least 50 students who resided in one district, but attended school in another district through inter-district open enrollment, including from a South-Western residence to CCS enrollment (215), Groveport Madison to CCS (170), London to Madison-Plains (108), and Lancaster to Bloom-Carroll (106).

Map 9. Open enrollment patterns of Columbus Area districts and total incoming students through open enrollment, school year 2010–2011
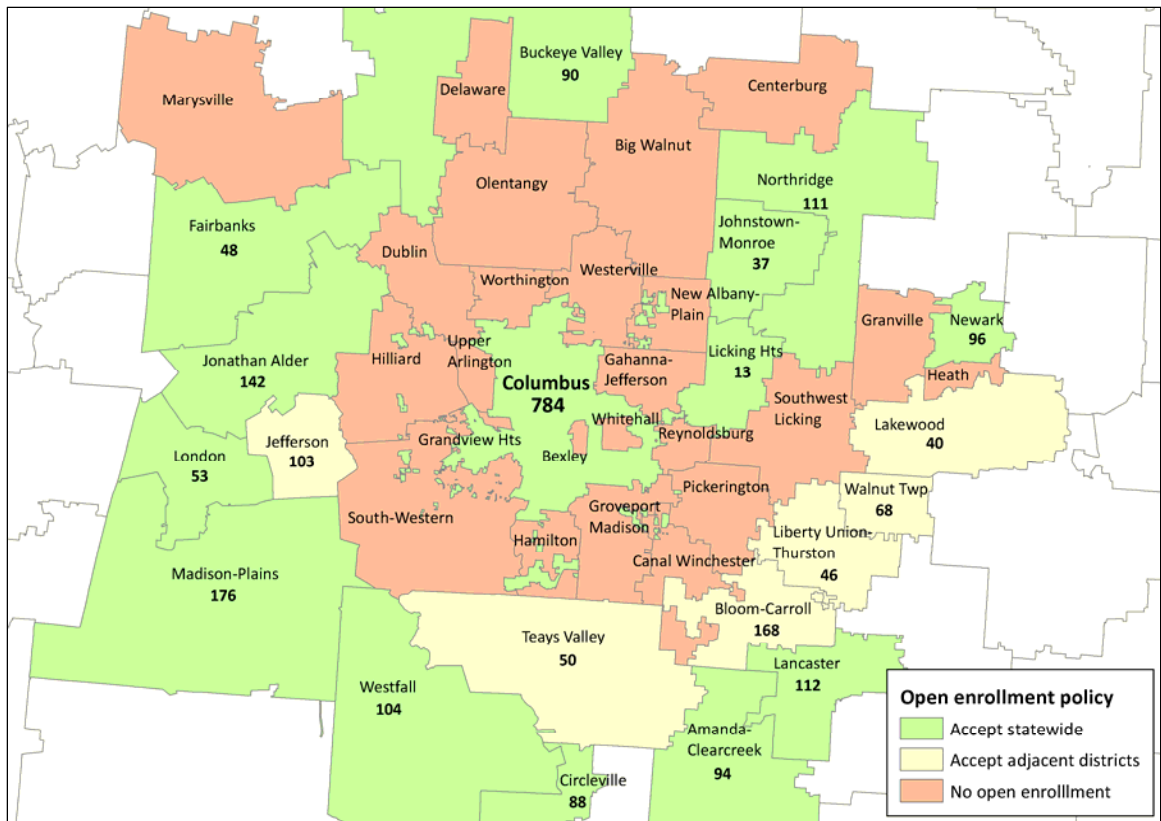
Source: CRP analysis of ODE enrollment records

5.0 Mobility and the student

5.1   Section overview and key concepts

This section of the report examines the relationship of mobility and student characteristics and achievement for CCS students. The analysis includes: (1) differences in demographic characteristics of mobile and non-mobile student groups, (2) differences in demographics of students who left the district based on the type of destination school, and (3) differences in proficiency test scores based on mobility status.

Student characteristics and mobility status

How do stable CCS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

- The demographic characteristics of CCS student groups based on their mobility status over a one-year period from October 1, 2009 to October 1, 2010, and statistical differences between these groups.

Data notes

- Demographic characteristics are from ODE student records and include race, grade, economic disadvantage, homeless, immigrant, LED, disability

Student characteristics and destination of outgoing students

How do the characteristics of outgoing CCS students differ based on their destination school?

- The demographic characteristics of CCS students who left the district from October 1, 2009 to October 1, 2010, based on their destination school type.

Data notes

- Demographic characteristics are from ODE student records and include race, grade, economic disadvantage, homeless, immigrant, LED, disability.

- Destination schools include another Ohio district, physical charter school, e-charter school, district outside of Ohio, and other (includes expulsion, court order, private school, vocational school, dropout, early graduation, medical, death, and unknown—the largest group)

Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

- **Mobility history:** Amount and type of student mobility of 3rd and 8th grade proficiency test takers during the two-year period preceding the school year 2011 test period.

- **Proficiency test passage:** Statistical analysis of the relationship between the mobility history of student groups and student attributes and proficiency on state achievement tests.

Data notes

- Mobility history includes: total school building changes (non-promotional), number of districts attended, number of community schools attended, and within school year withdrawal/reentry to same school.

- Mover groups include: 0 moves, 1 summer-only move, 1 during school year move, 2 moves, 3+ moves. Students in the 2-moves and 3+ moves groups have at least one school year move, but may have a combination of summer and school year moves.

5.2   Student characteristics and mobility status

How do stable CCS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

Table 26 compares the enrollment and mobility status of CCS students on October 1, 2009, and on October 1, 2010. Statistical tests found the following significant differences between these groups:

- **Movers between Columbus City Schools buildings**. Compared to stable CCS students, those who move between CCS buildings are more likely to be black, economically disadvantaged, homeless, or have a disability.

- **Outgoing and incoming students**. Compared to outgoing CCS students, incoming students are more likely to be black, homeless, an immigrant, or LEP.

Stable CCS students were fairly evenly distributed across grade levels (7-9% in each grade). The following was the grade distribution of mover groups:

- **Movers between Columbus City Schools buildings.** Sixty-five percent of students who moved between CCS buildings were in grades K-4, and another 11% were in grade 9.

- **Outgoing students**. Nearly one in four students who left the district was in grade 5 or 9.

- **Incoming students**. Thirteen percent of all incoming students were in grade 8, and another 23% were in grades K and 1.

5.3   Student characteristics and destination of outgoing students

How do the characteristics of outgoing CCS students differ based on their destination school?

Statistical tests found the following significant differences between groups of students leaving the CCS district, based on their destination school (Table 26):

- **Race.** Compared to other racial groups, black students are more likely to move to a physical charter school; white students are more likely to move to an e-charter; and Hispanic students are more likely to move to a district outside of Ohio.

- **Economic disadvantage.** Economically disadvantaged CCS students are more likely than those who are not economically disadvantaged to move to a physical charter or e-charter.

- **Homeless.** Homeless CCS students are more likely than those who are homeless to move to another Ohio district or to a district outside of Ohio.

- **Immigrant.** Immigrant CCS students are more likely than those who are not immigrants to move to a district outside of Ohio.

- **LEP.** LEP students are more likely than those who are not LEP to move to a district outside of Ohio.

- **Disability.** CCS students with a disability are more likely than those who do not have a disability to move to an e-charter or another Ohio district.

Stable CCS students were fairly evenly distributed across grade level (7-9% in each grade). The following was the grade distribution of mover groups based on their destination school:

- **Other Ohio district.** Sixty-three percent of CCS students who moved to another Ohio district were in grades K-5.

- **Physical charter**. More than one in four CCS students who moved to a physical charter was in grades 5 or 9.

- **E-students.** Two-thirds of CCS students who moved to an e-charter were in grades 7-10, with 26% in grade 9.

Table 26. Characteristics of CCS students by mobility status and destination, Oct. 1, 2009 to Oct. 1, 2010

| | Characteristics of non-mobile and mobile CCS students | | | | Characteristics of outgoing CCS students by destination | | | | |
| | Stayed in district | | Incoming (entered the district) | Outgoing (left the district) | Other Ohio district | Physical charter school | E-charter school | District outside of Ohio | Other or NA (3) |
	Stable student (1)	Move between CCS buildings (2)							
All	**35,286**	**3,230**	**5,802**	**9,477**	**3,184**	**1,888**	**464**	**816**	**3,125**
	%	%	%	%	%	%	%	%	%
Race									
Black	59.1	65.2	55.2	54.1	43.6	71.4	32.3	50.1	58.5
White	26.9	20.4	25.2	26.9	34.7	14.2	52.4	19.1	24.8
Hispanic	6.5	5.4	8.3	8.8	7.8	7.1	2.8	20.7	8.7
Asian	2.1	1.2	2.9	2.1	3.0	1.2	1.1	4.3	1.5
Other	5.5	7.9	8.4	8.1	10.9	6.1	11.4	5.8	6.5
Grade SY 2009-2010									
K	8.9	13.9	11.4	8.6	12.2	7.8	1.5	9.3	6.3
1	8.9	12.6	10.3	7.6	10.1	7.2	2.6	9.4	5.5
2	8.5	12.8	9.7	7.7	10.2	7.2	2.2	10.4	5.6
3	8.7	14.5	9.1	7.0	9.1	6.9	3.2	8.0	5.2
4	8.5	11.5	7.8	7.8	10.0	7.7	2.4	6.4	6.9
5	8.3	2.0	7.8	11.2	11.0	15.7	7.1	8.0	10.0
6	7.8	6.7	8.5	7.1	8.3	8.3	7.3	5.9	5.4
7	7.9	6.3	6.9	6.4	7.4	6.0	11.6	5.6	5.1
8	8.1	1.1	12.7	7.0	7.5	5.8	13.1	6.5	6.3
9	9.1	11.2	7.7	12.5	7.6	11.9	26.1	16.2	15.0
10	8.1	5.2	5.0	8.6	4.7	9.4	14.9	8.3	11.1
11	7.1	2.2	3.2	8.5	1.9	6.0	8.0	6.0	17.4
Economic Disadvantage									
No	15.3	4.3	10.6	11.0	11.9	4.4	6.5	12.4	14.3
Yes	84.7	95.7	89.4	89.0	88.1	95.6	93.5	87.6	85.7
Homeless									
No	95.7	86.7	91.8	92.8	91.0	93.4	94.6	91.5	94.4
Yes	4.3	13.3	8.2	7.2	9.0	6.6	5.4	8.5	5.6
Immigrant									
No	95.6	97.0	90.9	94.5	95.4	95.4	99.4	84.1	95.1
Yes	4.4	3.0	9.1	5.5	4.6	4.6	0.6	15.9	4.9
LEP									
No	90.1	92.8	85.8	88.5	90.5	86.7	98.1	75.1	89.5
Yes	9.9	7.2	14.2	11.5	9.5	13.3	1.9	24.9	10.5
Disability									
No	82.1	74.2	81.8	81.4	79.8	83.8	79.5	84.7	80.9
Yes	17.9	25.8	18.2	18.6	20.2	16.2	20.5	15.3	19.1

Source: CRP analysis of ODE enrollment records

(1) Stable student: did not move or a promotional move only (i.e. elementary to middle school, middle school to high school)

(2) Does not include promotional moves

(3) Includes expulsion, court order, private school, vocational school, home school, dropout, early graduation, medical, death, and unknown, which is the largest group

5.4   Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

Mobility history of test takers

Of the 7,232 third- and eighth-grade CCS students who took the Ohio Achievement Assessment (OAA) tests in spring 2011, about one-in-three third-grade test takers and one-in-four 8th-grade test takers made at least one non-promotional move during the previous two school years (Table 27). The largest mover group was those who made one move during the school year.

Table 27. CCS: Mobility history of OAA test-takers in spring 2011

Mobility type and amount	3rd grade		8th grade	
	#	%	#	%
Test-takers	3,957	100.0	3,275	100.0
Total school changes over two school years				
0 moves	2,610	66.0	2,372	72.4
1 summer-only move	328	8.3	195	6.0
1 during school year move	578	14.6	462	14.1
2 moves	331	8.4	183	5.6
3+ moves	110	2.8	63	1.9

Source: CRP analysis of ODE enrollment records

Mobility history and economic disadvantage

A higher percentage of the mobile spring 2011 test-takers were economically disadvantaged than were those who did not change schools during the previous two years. The 0-move groups had an 85% economic disadvantage rate, compared to 97%+ of the 2-move and 3+ move groups.

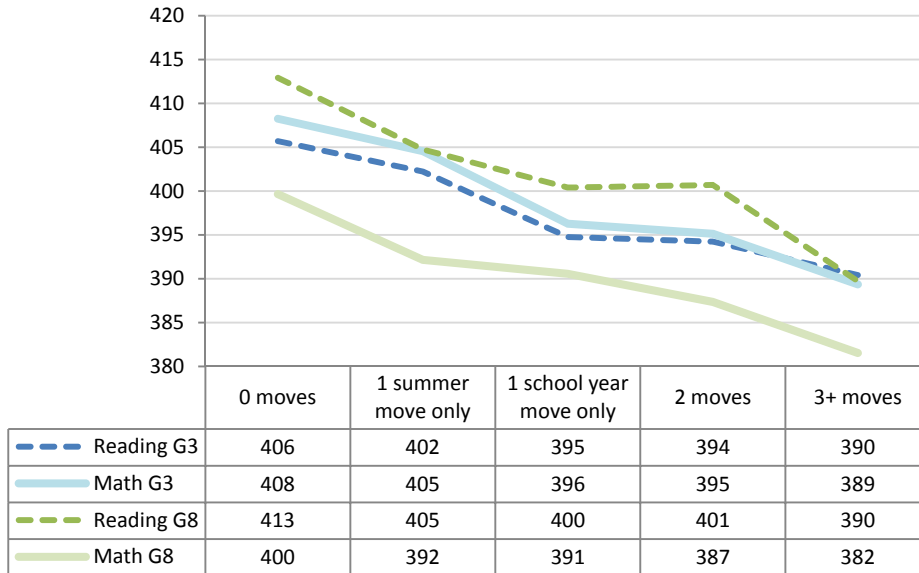**Table 28. CCS: Economic disadvantage and mobility history of OAA test-takers in spring 2011**

Total non-promotional moves over two school years	3rd grade test			8th grade test		
	Total test-takers	Economic Disadvantage		Total test-takers	Economic Disadvantage	
		# of test takers	% of test takers		# of test takers	% of test takers
0 moves	2,610	2,210	84.7	2,372	2,006	84.6
1 summer move	328	286	87.2	195	177	90.8
1 during school year move	578	549	95.0	462	432	93.5
2 moves	331	321	97.0	183	177	96.7
3+ moves	110	108	98.2	63	62	98.4

Source: CRP analysis of ODE enrollment records
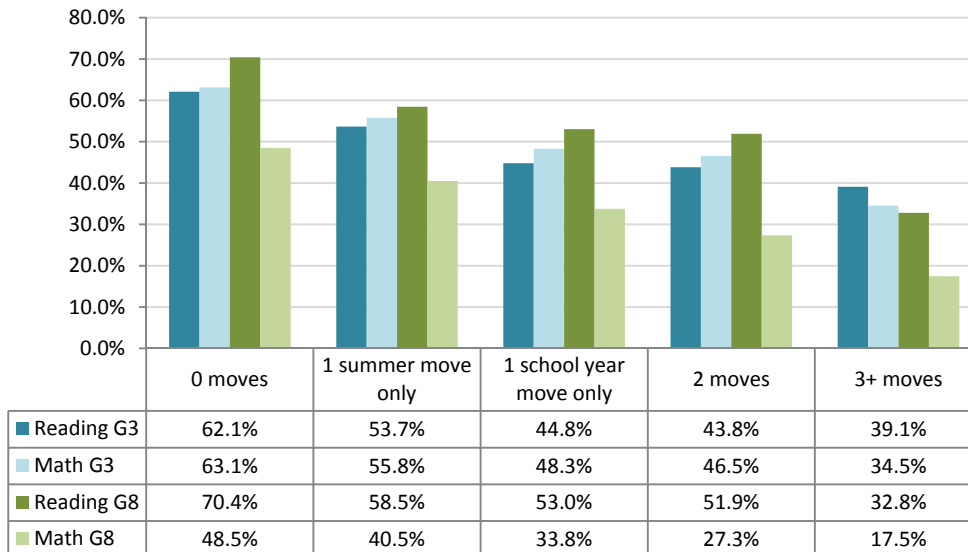
Mobility history and test scores

There is a downward trend in average test scores and passage rates of 3rd and 8th grade OAA tests with each successive school change that a CCS student made (Figures 1 and 2). All mover groups—even those who move one time in the summer—had lower average test scores and passage rates than students who did not change schools over the previous two years.

Figure 1. CCS: Average scores on spring 2011 OAA tests by two-year mobility history

	0 moves	1 summer move only	1 school year move only	2 moves	3+ moves
Reading G3	406	402	395	394	390
Math G3	408	405	396	395	389
Reading G8	413	405	400	401	390
Math G8	400	392	391	387	382

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

Figure 2. CCS: Passage rates on spring 2011 OAA tests by two-year mobility history

	0 moves	1 summer move only	1 school year move only	2 moves	3+ moves
Reading G3	62.1%	53.7%	44.8%	43.8%	39.1%
Math G3	63.1%	55.8%	48.3%	46.5%	34.5%
Reading G8	70.4%	58.5%	53.0%	51.9%	32.8%
Math G8	48.5%	40.5%	33.8%	27.3%	17.5%

Source: CRP analysis of ODE enrollment records

Summary: relationship of mobility, student characteristics, and test scores

Average test scores

Figure 3 shows the average scores on the spring 2011 3rd grade math test for selected student groups. Scores were highest for the following CCS student groups:

- Not economically disadvantaged
- Asian or non-Hispanic white
- Had no school moves or only one summer move over the past two years

Figure 3. CCS: Average scores on 3rd grade math test by student groups, spring 2011
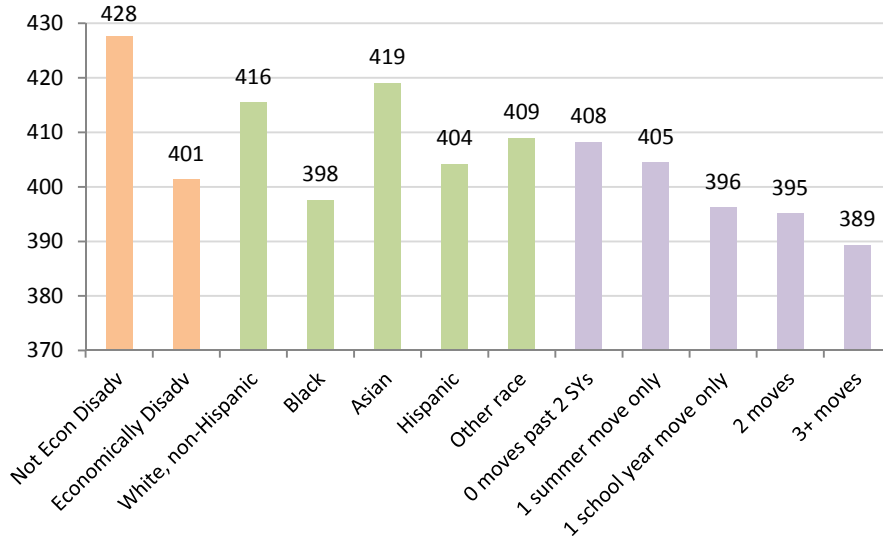
Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

Statistical modeling

Table 28 shows the results of statistical tests of differences between groups in test scores based on the following factors: economic disadvantage, race or ethnicity, or number of moves over the past two years. The p-values on the table are for the test of whether there is a significant difference in scores due to each factor *after all other factors have been adjusted for*. If the p-value is small (p <= 0.05), the factor is very important in predicting the test scores.

For the CCS student groups analyzed, the low p-values (<.0001) for all factors indicate that the number of school changes over two years is an independent predictor of test scores. There is a statistically significant relationship between more school moves and lower test scores. Economic disadvantage and race are also independent predictors of test scores.

Table 29. CCS: Significance of relationship of factors to test scores on selected OAA tests, spring 2011

Factor	Grade 3 Reading	Grade 3 Mathematics	Grade 8 Reading	Grade 8 Mathematics
Economic disadvantage status	<.0001	<.0001	<.0001	<.0001
Race or ethnicity category	<.0001	<.0001	<.0001	<.0001
Total number of school changes over past 2 school years	<.0001	<.0001	<.0001	<.0001

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

The statistical modeling also examined the differences in test scores based on the number of moves, and whether a move was in the summer or school year (Table 30). The following were found to be significant differences in mover groups:

- **Grade 3 math and reading test scores.** All school year mover groups have lower mean test scores than those of the 0-mover and one summer mover groups.

- **Grade 8 math test scores.** Summer mover and all school year mover groups have lower mean test scores than those of the 0-mover group. The group with three or more moves has lower mean scores than those of the one summer move group

- **Grade 8 reading test scores.** Summer mover and all school year mover groups have lower mean test scores than those of the 0-mover group. The group with three or more moves has lower mean scores than those of the one summer move or one school year move groups.

Table 30. Significant differences in mean test scores of CCS students by number of moves over two school years preceding spring 2011 OAA tests

Grade	0 moves	1 move, summer	1 move, school year	2 moves	3+ moves
Grade 3 Math					
0 moves					
1 move, summer	no				
1 move, school year	yes (1)	yes			
2 moves	yes	yes	no		
3 or more moves	yes	yes	no	no	
Grade 3 Reading					
0 moves					
1 move, summer	no				
1 move, school year	yes	yes			
2 moves	yes	yes	no		
3 or more moves	yes	yes	no	no	
Grade 8 Math					
0 moves					
1 move, summer	yes				
1 move, school year	yes	no			
2 moves	yes	no	no		
3 or more moves	yes	yes	no	no	
Grade 8 Reading					
0 moves					
1 move, summer	yes				
1 move, school year	yes	no			
2 moves	yes	no	no		
3 or more moves	yes	yes	yes	no	

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records.

(1) "yes" indicates p-value of <= 0.05 in tests of difference between groups

5.5   Mobility and achievement test roll-up level

An impact of student mobility is that mobile students may not meet the enrollment criteria—continually enrolled in a building or district from October 31 until the spring achievement testing date—for counting their test scores in a building's or district's performance rating. Instead, their test score is "rolled up" and counts only for the district or state rating.

- Among the Columbus Area Ring 1 districts, Columbus has the highest percentage of students whose achievement test scores are rolled up to the state (Table 31).

- The CCS figure (10.1%) is the third highest among the 15 Major Urban districts, with Cleveland (14.2%) and East Cleveland (10.2%) having higher percentages of state-only accountability among test takers. Akron (4.3%) and Warren (5.3%) had the lowest roll-up percentages.

Table 31. Columbus Area Ring 1 districts: Roll-up for OAA test-takers in grades 3 to 8, spring 2011 test period

District	District rating	Econ. Disadv. (%)	Test-takers	Percentage of tests rolled up to district or state accountability		
				Building	District	State
Columbus	C	81.9	22,538	87.5	2.4	10.1
Groveport Madison	A	58.0	2,668	90.7	0.7	8.7
Hamilton	B	61.6	1,500	91.7	0.0	8.3
Whitehall	C	75.7	1,318	91.5	0.3	8.2
Reynoldsburg	A	41.6	2,898	92.8	0.9	6.3
South-Western	A	54.6	9,280	92.5	1.8	5.7
Canal Winchester	A+	27.2	1,743	96.1	0.0	3.9
Westerville	A+	28.3	6,821	95.8	0.9	3.3
Gahanna-Jefferson	A+	25.6	3,298	96.3	0.7	3.0
Dublin	A+	14.0	6,448	96.8	0.2	3.0
New Albany-Plain	A	7.0	2,089	97.0	0.0	3.0
Hilliard	A+	22.4	7,119	96.5	0.6	2.9
Worthington	A	23.4	4,156	96.7	0.5	2.8
Upper Arlington	A+	<5.0	2,395	98.1	0.0	1.9
Bexley	A+	9.2	965	98.2	0.0	1.8
Grandview Hts.	A+	18.0	503	99.0	0.0	1.0

Source: CRP analysis of ODE enrollment records

Appendices

Appendix A. Columbus Area public school districts

Appendix B. Columbus Area public school buildings

Appendix C. Columbus Area public charter schools

The appendix provides basic mobility measures and demographics for all districts and schools in the Columbus Area. Additional data fields—including the component values used to calculate stability and churn rates—can be found in online spreadsheets at www.researchpartners.org.

Appendix A. Columbus Area public school districts, school year 2010–2011 (unless noted)

Ring	District	Rating	Average daily enrollment	Enrollment change since school year 2000–2001	Economic disadvantage	Minority race or ethnicity	Limited English Proficiency	Grade 3 reading proficiency, spring assessment	District cohort stability, Oct. 1, 2009–May 15, 2011 Grades K-7	District cohort stability Grades 8-11	Building cohort stability Grades K-7	Building cohort stability Grades 8-11	Churn rate Grades K-8	Churn rate Grades 9-12	Achievement test roll-up to state level for spring 2011 math test-takers, grades 3–8	In bricks and mortar public charter school	In public e-charter school	OUT: Residing in district but enrolling in other district	IN: Attending district through open enrollment
			#	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Bexley	A+	2,130	-5.2	9.2	17.3	1.0	91.3	93.5	94.7	93.0	95.0	3.1	2.8	1.8	5.9	0.6	0.4	0.0
1	Canal Winchester	A+	3,446	65.8	27.2	27.7	2.5	84	85.0	82.0	84.8	81.7	9.5	9.3	3.9	1.8	1.9	1.7	0.0
1	Columbus	C	49,616	-22.0	81.9	73.0	9.7	60.7	76.5	70.4	67.4	61.8	18.5	23.5	10.1	19.3	5.0	0.1	1.5
1	Dublin	A+	13,614	22.6	14.0	29.2	8.0	91.4	90.0	91.6	87.6	91.2	7.9	5.5	3.0	0.5	0.7	0.1	0.0
1	Gahanna-Jefferson	A+	7,028	10.7	25.6	30.9	2.4	89.3	88.4	85.7	85.2	84.3	7.1	7.5	3.0	2.6	1.9	0.3	0.0
1	Grandview Hts.	A+	1,092	-11.4	18.0	8.5	0.0	93.3	94.9	93.2	94.2	93.3	2.5	2.9	1.0	0.2	0.7	0.1	0.0
1	Groveport Madison	A	5,746	-0.3	58.0	46.6	3.1	77.7	74.0	61.0	68.9	54.1	21.9	21.7	8.7	16.1	3.6	2.3	0.0
1	Hamilton	B	3,005	13.9	61.6	20.5	1.1	79.5	77.4	69.5	75.9	66.3	22.5	21.3	8.3	6.6	3.1	0.7	0.0
1	Hilliard	A+	14,945	21.1	22.4	21.3	7.3	87.9	90.6	88.8	85.8	86.4	6.7	5.9	2.9	0.6	1.6	0.2	0.0
1	New Albany-Plain	A	4,191	116.3	7.0	23.2	1.9	94.4	89.8	91.5	89.6	91.7	6.3	4.8	3.0	0.9	0.9	0.1	0.0
1	Reynoldsburg	A	5,811	2.9	41.6	49.0	4.9	83.8	78.8	72.5	74.7	62.8	14.5	17.3	6.3	5.9	3.5	1.0	0.1
1	South-Western	A	19,336	1.7	54.6	29.0	10.9	75.2	83.1	79.8	76.4	76.8	14.7	17.9	5.7	6.2	4.2	1.5	0.0
1	Upper Arlington	A+	5,542	2.6	<5%	10.3	1.1	92.7	94.1	95.3	93.6	95.7	3.6	2.5	1.9	9.0	0.6	0.2	0.0
1	Westerville	A+	14,105	8.6	28.3	35.1	7.3	89.7	89.1	86.6	81.9	83.4	8.0	8.8	3.3	2.4	2.0	0.6	0.0
1	Whitehall	C	2,818	-0.5	75.7	55.0	13.1	65.2	73.2	69.0	67.8	61.6	20.6	23.2	8.2	8.0	4.3	2.3	0.0
1	Worthington	A	9,098	-8.8	23.4	26.0	4.8	90.8	89.2	88.3	85.7	87.3	7.2	6.9	2.8	0.7	1.9	0.3	0.0
2	Amanda-Clearcreek	B	1,715	11.6	34.5	<5.0	0.0	80.2	88.0	79.8	87.6	77.0	10.0	13.7	4.3	0.1	3.0	2.0	5.3
2	Big Walnut	A	2,797	8.8	18.8	7.8	0.5	91.5	89.2	86.9	63.9	85.9	6.0	7.7	2.1	0.4	2.9	0.4	0.0
2	Bloom-Carroll	A+	1,714	21.3	17.1	<5.0	0.0	87.4	90.0	87.0	89.8	84.6	7.0	6.4	3.4	0.6	2.1	2.9	9.8
2	Buckeye Valley	A	2,344	8.2	22.5	6.1	0.0	85.4	88.3	81.6	87.7	78.9	7.6	10.4	3.0	0.2	4.8	2.2	3.7
2	Centerburg	A+	1,092	6.7	31.1	<5.0	0.0	92.6	88.1	84.0	88.8	80.5	6.9	7.4	2.2	0.1	3.7	1.5	0.0
2	Circleville	B	2,182	-10.8	52.8	6.2	0.0	77.9	82.3	76.8	84.8	69.2	15.2	13.1	6.1	0.0	4.2	4.4	3.8
2	Delaware	A+	4,942	21.1	35.5	15.0	1.4	89.2	86.9	81.4	84.1	79.6	9.7	11.5	4.0	0.3	3.9	1.4	0.1
2	Fairbanks	A+	954	6.0	24.3	<5.0	0.0	85.7	89.1	83.3	88.9	82.2	7.0	5.2	2.6	0.3	4.0	4.4	4.8
2	Granville	A+	2,472	38.1	<5%	<5.0	1.9	95.3	93.7	94.4	93.4	94.0	3.5	3.1	1.6	0.1	1.1	0.3	0.0
2	Heath	A	1,652	8.2	34.4	11.8	0.0	96.9	84.4	79.5	83.5	79.3	14.6	10.1	4.2	0.5	4.1	2.4	0.0
2	Jefferson	B	1,280	5.4	29.4	<5.0	0.9	80	87.8	77.8	87.3	74.4	10.6	12.4	4.0	0.0	3.3	1.7	8.0

Ring	District	Rating	Average daily enrollment	Enrollment change since school year 2000–2001	Economic disadvantage	Minority race or ethnicity	Limited English Proficiency	Grade 3 reading proficiency, spring assessment	District cohort stability, Oct. 1, 2009–May 15, 2011		Building cohort stability, Oct. 1, 2009–May 15, 2011		Churn rate, Oct. 1, 2010–May 15, 2011		Achievement test roll-up to state level for spring 2011 math test-takers, grades 3–8	Students residing in district but attending charter school		Inter-district open enrollment	
									Grades K-7	Grades 8-11	Grades K-7	Grades 8-11	Grades K-8	Grades 9-12		In bricks and mortar public charter school	In public e-charter school	OUT: Residing in district but enrolling in other district	IN: Attending district through open enrollment
			#	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
2	Johnstown-Monroe	A	1,522	13.4	24.4	<5.0	0.8	87.3	91.4	87.5	74.6	87.2	7.8	6.8	2.3	0.7	3.9	3.9	2.3
2	Jonathan Alder	A+	2,097	24.9	27.8	<5.0	1.3	91.6	90.3	85.0	88.5	83.5	9.4	3.7	3.5	0.2	3.7	0.7	6.5
2	Lakewood	B	2,071	-10.7	44.0	<5.0	0.0	80.2	82.4	76.9	81.2	73.4	18.8	17.2	6.2	0.4	5.5	3.2	1.9
2	Lancaster	A	5,966	2.3	51.6	<5.0	0.0	85.7	85.3	78.9	77.0	75.6	13.0	16.1	5.1	1.2	5.6	4.8	1.8
2	Liberty Union-Thurston	A	1,396	7.3	27.8	<5.0	0.0	92	90.7	88.4	90.0	88.9	8.4	6.4	3.4	0.1	1.8	1.8	3.2
2	Licking Hts.	A	3,396	152.3	39.3	37.1	7.7	82	83.9	78.9	76.6	76.7	10.8	16.0	4.7	1.8	3.6	0.6	0.4
2	London	B	1,998	-2.2	43.4	12.6	0.9	82.8	86.3	77.9	86.0	74.7	14.6	12.5	6.0	0.3	9.0	6.8	2.5
2	Madison-Plains	B	1,331	-24.4	39.3	<5.0	0.0	76.1	87.6	82.5	86.0	81.6	16.2	9.8	4.4	0.0	3.9	9.0	12.6
2	Marysville	A+	5,345	28.2	21.4	6.0	0.4	84.5	89.4	88.8	83.3	84.3	7.0	8.2	2.7	0.0	2.5	1.9	0.0
2	Newark	A	6,456	-3.8	57.7	12.5	0.3	86.1	83.1	67.1	75.7	62.8	16.3	22.3	6.8	2.1	10.2	2.0	1.5
2	Northridge	A	1,389	5.2	19.7	<5.0	0.0	83.7	90.5	84.8	90.1	83.5	6.8	7.1	2.4	0.1	1.5	4.6	7.8
2	Olentangy	A+	16,263	183.1	7.4	17.2	1.7	94.7	93.7	94.4	82.9	94.5	4.4	2.8	0.4	0.2	0.8	0.1	0.0
2	Pickerington	A+	10,326	40.1	16.6	33.4	2.7	87.4	90.7	89.2	87.5	87.7	6.7	6.8	2.6	1.0	1.6	0.4	0.0
2	Southwest Licking	A	3,743	19.5	30.9	10.0	0.4	84.6	87.6	82.8	87.5	82.7	9.0	10.5	3.9	0.6	3.4	0.8	0.0
2	Teays Valley	A+	3,576	25.4	28.3	<5.0	0.0	89.5	88.1	78.2	74.3	76.2	9.1	10.9	3.3	0.2	2.7	0.7	1.3
2	Walnut Township	B	629	-12.4	47.4	<5.0	0.0	75.6	82.6	70.4	82.7	70.4	16.5	14.4	4.8	0.0	3.6	3.7	10.4
2	Westfall	B	1,615	-4.3	45.4	<5.0	0.0	80.9	86.3	85.0	86.0	84.0	11.9	9.0	4.7	0.1	3.4	2.6	6.2

Columbus Area public school buildings alphabetical by district and school name				District attributes			Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Amanda-Clearcreek	Amanda-Clearcreek Elementary School	3-5	B	399	39.7	<5.0	86.8	9.8
Amanda-Clearcreek	Amanda-Clearcreek High School	9-12	B	545	28.5	<5.0	77.0	13.7
Amanda-Clearcreek	Amanda-Clearcreek Middle School	6-8	A	399	35.1	<5.0	91.0	9.3
Amanda-Clearcreek	Amanda-Clearcreek Primary School	K-2	NA	372	37.2	<5.0	85.0	10.9
Bexley	Bexley High School	9-12	A	691	6.5	17.3	95.0	2.8
Bexley	Bexley Middle School	7-8	A+	321	13.0	19.9	95.4	2.2
Bexley	Cassingham Elementary School	K-6	A	414	<5.0	7.2	93.2	3.5
Bexley	Maryland Elementary School	K-6	A	315	12.4	19.3	91.8	3.3
Bexley	Montrose Elementary School	K-6	A	389	15.7	25.1	92.6	5.6
Big Walnut	Big Walnut Elementary School	K-5	A+	429	19.2	8.8	36.1	6.7
Big Walnut	Big Walnut High School	9-12	B	927	17.1	8.8	85.7	7.7
Big Walnut	Big Walnut Middle School	6-8	A	644	18.3	6.6	91.8	4.9
Big Walnut	General Rosecrans Elementary	PK-5	B	473	15.1	7.7	-	4.8
Big Walnut	Hylen Souders Elementary School	K-5	A+	323	29.9	8.6	67.5	13.1
Bloom-Carroll	Bloom Carroll Intermediate School	3-5	A	379	21.9	<5.0	89.2	7.2
Bloom-Carroll	Bloom Carroll Primary School	K-2	NA	390	19.4	<5.0	87.5	7.7
Bloom-Carroll	Bloom-Carroll High School	9-12	A	545	12.0	<5.0	84.6	6.4
Bloom-Carroll	Bloom-Carroll Middle School	6-8	A+	400	17.2	5.7	92.5	6.0
Buckeye Valley	Buckeye Valley East Elementary School	PK-5	A	369	43.8	7.1	83.7	11.0
Buckeye Valley	Buckeye Valley Local High School	9-12	A	741	17.2	<5.0	78.9	10.4
Buckeye Valley	Buckeye Valley Local Middle School	6-8	A	536	23.8	7.0	87.7	7.1
Buckeye Valley	Buckeye Valley North Elementary School	K-5	A	286	20.6	5.6	92.3	5.0
Buckeye Valley	Buckeye Valley West Elementary School	K-5	A	412	12.6	8.9	88.2	7.5
Canal Winchester	Canal Winchester High School	9-12	A	1,038	22.7	27.0	81.7	9.3
Canal Winchester	Canal Winchester Middle School	6-8	A+	857	28.4	27.1	85.5	9.0
Canal Winchester	Indian Trail Elementary School	K-2	NA	674	29.0	30.3	81.3	10.3
Canal Winchester	Winchester Trail Elementary School	3-5	B	877	30.1	27.6	87.0	9.4
Centerburg	Centerburg Elementary School	K-5	A+	467	39.2	5.1	88.7	5.9
Centerburg	Centerburg High School	9-12	A	382	24.1	<5.0	80.5	7.4
Centerburg	Centerburg Middle School	6-8	A+	243	26.4	<5.0	89.1	9.1
Circleville	Atwater Elementary School	1-2	NA	338	62.0	6.2	80.3	12.5
Circleville	Circleville High School	9-12	B	678	41.1	5.5	69.2	13.1
Circleville	Court Elementary School	4-5	B	325	60.0	7.8	83.6	16.8
Circleville	Everts Middle School	6-8	B	511	53.4	6.9	87.6	15.8
Circleville	Mound Elementary School	PK-K	NA	166	55.3	5.9	-	14.8
Circleville	Nicholas Elementary School	3	A	164	63.1	7.5	-	15.8
Columbus	Alpine Elementary School	K-5	B	505	72.8	69.7	74.0	18.3
Columbus	Alum Crest High School	9-12	F	133	94.9	62.8	40.3	90.7
Columbus	Arlington Park Elementary School	PK-5	F	217	93.6	92.7	63.4	23.4
Columbus	Arts Impact Middle School (AIMS)	6-8	C	517	80.6	86.7	86.9	2.7
Columbus	Avalon Elementary School	K-5	B	568	65.9	89.1	73.4	21.1
Columbus	Avondale Elementary School	K-5	B	281	92.3	30.9	53.0	48.2
Columbus	Beatty Park Elementary School	K-5	F	126	>95.0	67.1	55.6	46.1
Columbus	Beechcroft High School	9-12	C	734	80.8	89.4	63.0	22.4
Columbus	Berwick Alternative Elementary School	PK-8	A	664	62.5	>95.0	87.0	5.0
Columbus	Binns Elementary School	K-5	C	276	77.0	28.5	73.2	27.0
Columbus	Briggs High School	9-12	C	992	82.0	41.4	57.4	29.8
Columbus	Broadleigh Elementary School	PK-5	F	296	90.4	93.2	63.5	44.9

Columbus Area public school buildings alphabetical by district and school name		District attributes					Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Columbus	Brookhaven High School	9-12	D	690	87.5	84.2	49.9	35.8
Columbus	Buckeye Middle School	6-8	D	575	86.3	38.6	69.0	32.5
Columbus	Burroughs Elementary School	PK-5	F	367	93.4	46.8	59.2	34.4
Columbus	Cassady Alternative Elementary School	K-5	D	347	92.8	>95.0	61.2	36.0
Columbus	Cedarwood Alternative Elem. School @ Stockbridge	PK-5	B	380	79.1	52.6	73.0	17.7
Columbus	Centennial High School	9-12	A	773	52.9	51.7	76.5	13.2
Columbus	Champion Middle School	6-8	F	282	>95.0	>95.0	58.2	42.4
Columbus	Clearbrook Middle School	6-8	F	70	90.6	60.4	38.7	92.5
Columbus	Clinton Elementary School @ OLD Hubbard ES	K-5	A+	342	39.4	20.3	78.3	6.5
Columbus	Colerain Elementary School	PK-5	A+	186	60.4	41.4	81.5	9.7
Columbus	Columbus Africentric Early College	6-12	C	585	88.8	>95.0	74.0	8.2
Columbus	Columbus Africentric Early College Elementary School	K-5	F	285	>95.0	>95.0	74.8	9.4
Columbus	Columbus Alternative High School	9-12	A	606	61.0	74.2	81.6	5.9
Columbus	Columbus City Preparatory School for Boys	6	C	121	88.6	90.9	-	7.4
Columbus	Columbus City Preparatory School for Girls	6	A	160	88.2	83.9	-	3.2
Columbus	COLUMBUS GLOBAL ACADEMY	6-12	C	465	93.9	94.5	61.8	34.9
Columbus	Columbus International High School	9	NA	166	80.4	86.0	-	8.1
Columbus	Columbus Spanish Immersion Elementary School	K-8	B	398	80.8	91.5	88.8	3.0
Columbus	Como Elementary School	PK-5	C	349	91.7	46.1	59.1	33.3
Columbus	Cranbrook Elementary School	K-5	A	305	74.7	55.4	69.6	30.7
Columbus	Dana Avenue Elementary School	PK-5	D	323	>95.0	35.6	55.9	35.6
Columbus	Devonshire Alternative Elementary School	PK-5	C	462	76.1	77.0	81.4	12.0
Columbus	Dominion Middle School	6-8	B	526	66.4	44.6	75.6	21.6
Columbus	Duxberry Park Alternative Elementary School	PK-5	C	271	84.5	93.5	85.9	9.1
Columbus	Eakin Elementary School	K-5	D	302	>95.0	82.0	64.5	31.6
Columbus	East Columbus Elementary School	PK-5	C	342	>95.0	90.3	48.9	42.3
Columbus	East High School	9-12	C	622	90.5	>95.0	52.2	31.6
Columbus	East Linden Elementary School	PK-5	F	309	>95.0	87.1	66.5	45.9
Columbus	Eastgate Elementary School	PK-5	C	316	92.5	>95.0	65.7	31.9
Columbus	Easthaven Elementary School	PK-5	D	386	94.9	93.9	61.4	34.5
Columbus	Eastmoor Academy	9-12	B	696	72.3	>95.0	68.6	8.2
Columbus	Ecole Kenwood Alternative Elementary School	K-8	A	363	62.8	72.5	85.9	2.2
Columbus	Fairmoor Elementary School	K-5	D	472	92.9	94.4	58.5	30.8
Columbus	Fairwood Alternative Elementary School	PK-5	F	363	92.6	>95.0	59.1	40.3
Columbus	Fifth Avenue International K-6 School	K-6	C	364	90.7	82.8	75.1	18.6
Columbus	Forest Park Elementary School	K-5	C	397	84.4	82.4	72.2	27.9
Columbus	Fort Hayes Arts and Academic HS	9-12	B	604	70.3	81.9	76.6	6.0
Columbus	Gables Elementary School	K-5	B	359	44.5	60.8	77.4	22.4
Columbus	Georgian Heights Alt Elem. School @ Old Wedgewood	K-5	B	406	67.7	37.8	70.0	17.1
Columbus	Hamilton STEM Academy (K-6)	PK-6	D	454	93.9	85.4	50.3	53.4
Columbus	Heyl Avenue Elementary School	PK-5	F	276	>95.0	78.9	57.5	46.5
Columbus	Highland Elementary School	PK-5	F	319	94.1	68.8	57.5	52.0
Columbus	Hilltonia Middle School	6-8	D	558	93.7	45.7	62.5	32.1
Columbus	Huy Elementary School	PK-5	D	384	76.5	50.7	70.3	31.5
Columbus	Independence High School	9-12	D	771	81.0	94.0	60.9	26.1
Columbus	Indian Springs Elementary School	K-5	A	438	49.2	35.2	80.9	16.7
Columbus	Indianola Informal K-8 School	K-8	A	578	36.7	39.9	90.6	4.0
Columbus	Innis Elementary School	K-5	D	354	91.4	92.0	62.0	35.6
Columbus	Johnson Park Middle School	6-8	D	459	94.2	>95.0	61.0	39.2
Columbus	Leawood Elementary School	PK-5	F	313	92.2	93.5	50.4	38.5

| Columbus Area public school buildings | | District attributes | | | | | Mobility measures | |
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District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Columbus	Liberty Elementary School	K-5	F	289	88.2	91.7	55.5	36.1
Columbus	Lincoln Park Elementary School	PK-5	D	252	89.9	64.5	46.5	55.2
Columbus	Lindbergh Elementary School	K-5	D	286	86.8	25.9	58.7	40.3
Columbus	Linden STEM Academy (K-6)	PK-6	C	530	89.8	90.6	60.0	41.2
Columbus	Linden-Mckinley STEM School on Arcadia	7-12	D	743	94.3	90.7	55.0	64.8
Columbus	Livingston Elementary School	PK-5	D	336	89.6	91.7	68.3	25.4
Columbus	Maize Road Elementary School	PK-5	C	314	79.8	61.1	70.9	20.8
Columbus	Marion-Franklin High School	9-12	C	823	84.4	65.0	59.1	26.0
Columbus	Maybury Elementary School	K-5	B	314	85.8	87.3	49.8	46.7
Columbus	Medina Middle School	6-8	D	488	93.9	70.6	56.9	37.9
Columbus	Mifflin Alternative Middle School	6-8	D	549	93.1	92.9	70.2	37.1
Columbus	Mifflin High School	9-12	C	655	87.4	>95.0	57.2	40.1
Columbus	Moler Elementary School	PK-5	C	230	>95.0	93.3	57.0	44.7
Columbus	Monroe Alternative Middle School	6-8	C	428	85.9	>95.0	78.5	8.7
Columbus	North Linden Elementary School	K-5	D	313	88.6	76.5	58.1	34.9
Columbus	Northland High School	9-12	B	1,056	77.1	87.6	70.6	21.2
Columbus	Northtowne Elementary School	PK-5	D	273	89.2	86.8	73.8	18.4
Columbus	Oakland Park Alternative Elementary	PK-5	C	313	72.1	78.2	89.7	6.9
Columbus	Oakmont Elementary School	K-5	D	290	>95.0	92.9	55.4	25.7
Columbus	Ohio Avenue Elementary School	PK-5	D	378	93.3	94.7	60.3	27.4
Columbus	Olde Orchard Alt Elem. School @ Old Shady Lane	K-5	C	452	76.1	89.3	65.2	19.3
Columbus	Parkmoor Elementary School	PK-5	C	245	82.6	85.1	68.3	28.6
Columbus	Parsons Elementary School	PK-5	C	433	81.0	16.5	72.9	18.5
Columbus	Ridgeview Middle School	6-8	A	515	56.2	54.2	78.4	12.7
Columbus	Salem Elementary School	K-5	C	363	86.3	71.7	64.9	39.2
Columbus	Scottwood Elementary School	PK-5	C	367	88.2	94.8	74.6	20.9
Columbus	Shady Lane Elementary School	K-5	D	366	86.0	86.6	62.6	28.4
Columbus	Sherwood Middle School	6-8	D	475	85.4	90.5	66.8	31.3
Columbus	Siebert Elementary School	PK-5	D	253	85.6	75.9	80.5	11.4
Columbus	South High School	9-12	D	493	90.6	79.1	48.9	34.2
Columbus	South Mifflin STEM Academy (K-6)	PK-6	F	314	90.6	>95.0	57.4	29.7
Columbus	Southmoor Middle School	6-8	D	412	>95.0	78.7	49.2	51.5
Columbus	Southwood Elementary School	PK-5	C	309	88.7	30.2	63.5	41.5
Columbus	Special Education Center	PK-12	NA	277	24.1	54.3	10.6	182.4
Columbus	Starling Middle School	6-8	D	292	>95.0	37.9	50.5	47.0
Columbus	Stewart Alternative Elementary School @ BECK ES	K-5	C	285	75.7	93.5	80.0	6.5
Columbus	Sullivant Elementary School	PK-5	F	265	>95.0	68.1	55.6	62.1
Columbus	Trevitt Elementary School	PK-5	F	270	93.0	>95.0	58.1	34.5
Columbus	Valley Forge Elementary School	PK-5	C	290	80.6	82.6	54.2	23.7
Columbus	Valleyview Elementary School	PK-5	B	328	83.7	37.3	60.9	29.6
Columbus	Walnut Ridge High School	9-12	B	757	82.9	94.5	50.2	43.0
Columbus	Watkins Elementary School	PK-5	D	389	93.4	78.5	61.3	41.7
Columbus	Wedgewood Middle School	6-8	C	530	79.4	45.4	74.9	18.3
Columbus	Weinland Park Elementary School	PK-5	D	322	92.3	94.7	64.9	19.0
Columbus	West Broad Elementary School	PK-5	D	471	94.6	41.2	63.3	45.5
Columbus	West High School	9-12	C	911	86.9	48.4	55.7	40.2
Columbus	West Mound Elementary School	PK-5	C	452	94.4	42.3	65.5	39.3
Columbus	Westgate Alternative Elementary School	PK-5	B	372	69.6	27.5	74.7	22.4
Columbus	Westmoor Middle School	6-8	C	529	93.4	40.3	65.8	43.7
Columbus	Whetstone High School	9-12	A	996	58.6	44.2	73.2	24.0

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				#	%	%	%	%
Columbus	Windsor STEM Academy (K-6)	PK-6	F	376	94.5	94.9	54.0	44.5
Columbus	Winterset Elementary School	PK-5	A	290	50.6	48.5	69.6	18.1
Columbus	Woodcrest Elementary School	PK-5	C	378	86.8	93.7	71.4	16.8
Columbus	Woodward Park Middle School	6-8	C	860	85.7	82.9	74.8	22.7
Columbus	Yorktown Middle School	6-8	C	486	89.2	91.9	58.3	41.0
Delaware	David Smith Elementary School	K-4	A	358	38.1	13.6	82.6	10.8
Delaware	Ervin Carlisle Elementary School	K-4	A	478	27.9	9.5	84.4	8.3
Delaware	Frank B Willis Intermediate Middle School	5-6	A+	813	38.1	13.4	87.2	10.3
Delaware	James Conger Elementary School	K-4	A	396	44.6	13.0	83.5	12.6
Delaware	John C Dempsey Middle School	7-8	A	719	33.0	14.4	88.9	8.4
Delaware	Laura Woodward Elementary School	K-4	A	309	55.3	28.2	76.0	20.2
Delaware	Robert F Schultz Elementary School	K-4	A+	473	33.1	19.6	82.4	7.8
Delaware	Rutherford B Hayes High School	9-12	A	1,396	31.0	15.2	79.6	11.5
Dublin	Albert Chapman Elementary School	PK-5	A+	483	23.2	38.1	81.5	16.2
Dublin	Ann Simpson Davis Middle School	6-8	A	913	31.4	36.3	87.0	11.1
Dublin	Daniel Wright Elementary School	PK-5	B	479	52.0	46.6	67.1	23.6
Dublin	Deer Run Elementary School	K-5	A	479	<5.0	21.7	95.3	4.7
Dublin	Dublin Coffman High School	9-12	A	1,871	10.7	21.9	92.1	4.8
Dublin	Dublin Jerome High School	9-12	A	1,232	<5.0	19.4	95.2	2.5
Dublin	Dublin Scioto High School	9-12	A	1,253	25.9	35.2	85.7	10.0
Dublin	Eli Pinney Elementary School	PK-5	A+	523	<5.0	11.9	95.2	2.3
Dublin	Glacier Ridge Elementary	K-5	A+	499	<5.0	32.8	92.5	4.3
Dublin	Griffith Thomas Elementary School	PK-5	A	561	20.4	48.8	77.2	15.3
Dublin	Henry Karrer Middle School	6-8	A	839	<5.0	22.6	94.8	3.8
Dublin	Indian Run Elementary School	K-5	A+	591	20.6	42.3	83.3	11.4
Dublin	John Sells Middle School	6-8	A	890	15.1	31.5	91.5	5.8
Dublin	Mary Emma Bailey Elementary School	PK-5	A	475	<5.0	17.9	95.9	1.6
Dublin	Olde Sawmill Elementary School	K-5	A+	359	14.9	33.0	83.5	9.6
Dublin	Riverside Elementary School	K-5	A	379	48.4	43.9	76.9	11.1
Dublin	Scottish Corners Elementary School	K-5	A+	539	<5.0	26.6	94.9	4.4
Dublin	Willard Grizzell Middle School	6-8	A	716	<5.0	15.6	96.6	3.2
Dublin	Wyandot Elementary School	PK-5	A+	536	<5.0	39.1	84.2	14.1
Fairbanks	Fairbanks Elementary School	K-5	B	414	29.5	6.6	87.7	8.0
Fairbanks	Fairbanks High School	9-12	A	329	18.8	5.8	82.2	5.2
Fairbanks	Fairbanks Middle School	6-8	A+	212	22.8	<5.0	91.8	5.1
Gahanna-Jefferson	Blacklick Elementary School	K-5	A+	411	12.3	26.1	89.7	7.9
Gahanna-Jefferson	Chapelfield Elementary School	K-5	A	409	34.8	27.2	84.0	9.2
Gahanna-Jefferson	Gahanna East Middle School	6-8	A	512	12.9	25.0	92.6	4.3
Gahanna-Jefferson	Gahanna South Middle School	6-8	A	542	21.5	34.1	90.0	6.4
Gahanna-Jefferson	Gahanna West Middle School	6-8	B	612	48.4	37.3	86.0	12.5
Gahanna-Jefferson	Goshen Lane Elementary School	K-5	A	366	56.8	46.8	71.8	17.5
Gahanna-Jefferson	High Point Elementary School	K-5	A	446	5.3	18.6	93.3	3.9
Gahanna-Jefferson	Jefferson Elementary School	K-5	A+	479	23.4	31.0	84.8	8.2
Gahanna-Jefferson	Lincoln Elementary School	K-5	A	406	29.2	32.2	83.0	6.9
Gahanna-Jefferson	Lincoln High School	9-12	A	2,323	19.8	30.5	84.3	7.5
Gahanna-Jefferson	Royal Manor Elementary School	K-5	A	387	40.8	33.5	76.9	10.3
Grandview Hts.	Grandview Heights High School	9-12	A	340	14.3	5.5	93.3	2.9
Grandview Hts.	Grandview Heights Middle School	7-8	A+	165	19.9	6.7	93.3	3.6
Grandview Hts.	Robert Louis Stevenson Elementary School	K-3	A	329	18.4	12.6	95.3	1.8
Grandview Hts.	Thomas A Edison Intermediate School	4-6	A	257	21.3	8.5	93.1	2.7

District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Columbus Area public school buildings alphabetical by district and school name								

District	School building	Grade range	Rating	Average daily enrollment #	Economic disadvantage %	Minority race or ethnicity %	Two-year building cohort stability %	One-year churn rate %
Granville	Granville Elementary School	K-3	A	653	<5.0	6.0	92.3	4.2
Granville	Granville High School	9-12	A	819	<5.0	<5.0	94.0	3.1
Granville	Granville Intermediate School	4-6	A+	597	<5.0	5.7	95.4	2.8
Granville	Granville Middle School	7-8	A+	402	<5.0	<5.0	91.8	3.4
Groveport Madison	Asbury Elementary School	K-5	C	425	66.6	43.7	69.0	22.5
Groveport Madison	Dunloe Elementary School	K-5	B	410	73.1	55.8	57.0	33.0
Groveport Madison	Glendening Elementary School	K-5	C	496	61.5	37.0	72.2	24.8
Groveport Madison	Groveport Elementary School	K-5	B	456	45.4	34.6	68.1	34.5
Groveport Madison	Groveport Madison High School	9-12	B	1,692	49.2	46.9	54.1	21.7
Groveport Madison	Groveport Madison Junior High School	8	A	469	57.8	45.8	-	20.6
Groveport Madison	Groveport Madison Middle School North	6-7	B	447	71.5	52.9	74.7	22.1
Groveport Madison	Groveport Madison Middle School South	6-7	B	487	54.8	44.6	70.7	23.5
Groveport Madison	Madison Elementary School	K-5	B	376	66.8	58.2	71.7	23.0
Groveport Madison	Sedalia Elementary	K-5	B	489	60.4	50.1	71.2	28.6
Hamilton	Hamilton Elementary School	K-3	A	905	70.3	22.4	73.8	23.8
Hamilton	Hamilton Intermediate School	4-6	B	767	66.5	22.1	77.7	22.0
Hamilton	Hamilton Middle School	7-8	B	500	59.8	19.8	78.8	21.4
Hamilton	Hamilton Township High School	9-12	A	833	48.6	17.4	66.3	21.5
Heath	Garfield Elementary School	K-2	NA	310	38.3	8.8	83.0	18.3
Heath	Heath High School	9-12	A	498	25.9	14.6	79.3	10.1
Heath	Heath Middle School	6-8	B	451	35.6	12.5	85.9	13.8
Heath	Stevenson Elementary School	3-5	A+	393	40.8	9.9	81.3	12.1
Hilliard	Alton Darby Elementary School	K-5	A+	459	23.9	20.7	82.4	8.4
Hilliard	Avery Elementary School	K-5	A	486	36.5	28.8	80.0	10.8
Hilliard	Beacon Elementary School	K-5	A	507	34.4	28.0	83.3	10.6
Hilliard	Britton Elementary School	K-5	A	338	31.8	25.9	86.2	9.4
Hilliard	Brown Elementary School	K-5	A+	517	26.9	22.1	86.3	5.7
Hilliard	Darby Creek Elementary School	K-5	A+	577	9.4	20.1	92.5	4.9
Hilliard	Hilliard Bradley High School	9-12	A	1,432	22.8	22.0	86.3	6.2
Hilliard	Hilliard Crossing Elementary School	K-5	A+	545	22.9	22.8	89.0	5.5
Hilliard	Hilliard Darby High School	9-12	A	1,410	18.3	18.2	85.2	6.8
Hilliard	Hilliard Davidson High School	9-12	A	1,791	17.0	16.7	87.4	5.7
Hilliard	Hilliard Heritage Middle School	7-8	A	735	16.1	16.1	88.1	6.4
Hilliard	Hilliard Horizon Elementary School	K-5	A+	557	44.1	31.8	81.9	11.6
Hilliard	Hilliard Memorial Middle School	7-8	A	778	25.9	24.0	91.9	6.1
Hilliard	Hilliard Station Sixth Grade Elementary School	6	A+	558	20.8	21.3	-	4.1
Hilliard	Hilliard Tharp Sixth Grade Elementary School	6	A	594	28.6	22.9	-	6.4
Hilliard	Hilliard Weaver Middle School	7-8	A+	867	21.5	18.4	88.0	7.8
Hilliard	Hoffman Trails Elementary School	K-5	A+	482	8.3	25.1	89.6	12.1
Hilliard	J W Reason Elementary School	K-5	B	352	42.8	18.7	68.9	13.1
Hilliard	Norwich Elementary School	K-5	A	526	13.7	18.5	87.1	6.8
Hilliard	Ridgewood Elementary School	K-5	A	539	22.2	24.2	86.9	7.3
Hilliard	Scioto Darby Elementary School	K-5	A+	480	17.1	13.1	88.0	5.2
Hilliard	Washington Elementary School	K-5	A+	359	18.0	29.8	82.3	14.8
Jefferson	Norwood Elementary School	PK-5	B	560	35.0	<5.0	85.9	11.9
Jefferson	West Jefferson Middle School	6-8	B	302	34.1	<5.0	90.8	8.3
Jefferson	West Jefferson High School	9-12	A	419	18.6	<5.0	74.4	12.4
Johnstown-Monroe	Johnstown High School	9-12	A	491	19.9	<5.0	87.2	6.8
Johnstown-Monroe	Oregon Elementary School	1-3	A	334	29.0	6.5	92.1	11.6
Johnstown-Monroe	Searfoss Elementary School	K-5	A+	293	25.7	5.9	42.8	6.4

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Johnstown-Monroe	Willis C Adams Middle School	6-8	A	404	25.2	<5.0	91.6	5.7
Jonathan Alder	Canaan Middle School	5-6	A+	333	33.1	6.3	93.2	10.8
Jonathan Alder	Jonathan Alder High School	9-12	A	630	18.2	<5.0	83.5	3.7
Jonathan Alder	Jonathan Alder Junior High	7-8	A	320	28.1	7.2	93.0	6.3
Jonathan Alder	Monroe Elementary School	K-4	A	253	55.1	8.1	79.1	18.1
Jonathan Alder	Plain City Elementary School	K-4	A	562	22.9	<5.0	89.5	7.7
Lakewood	Hebron Elementary School	K-2	NA	437	52.8	5.9	76.5	21.8
Lakewood	Jackson Intermediate	3-5	B	437	48.1	<5.0	82.6	18.8
Lakewood	Lakewood High School	9-12	A	652	37.1	<5.0	73.4	17.2
Lakewood	Lakewood Middle School	6-8	B	500	40.5	5.0	84.1	16.4
Lancaster	Cedar Heights Elementary School	K-5	B	396	65.3	<5.0	78.4	24.7
Lancaster	East Elementary School	K-5	A+	411	63.7	5.3	74.6	15.4
Lancaster	General Sherman Junior High School	6-8	A+	654	51.0	<5.0	84.8	10.2
Lancaster	Lancaster High School	9-12	A	1,576	42.6	<5.0	75.6	16.1
Lancaster	Medill Elementary School	K-5	B	359	46.7	<5.0	73.5	21.2
Lancaster	Sanderson Elementary School	K-5	B	293	44.5	<5.0	73.6	17.8
Lancaster	South Elementary School	K-5	B	292	71.0	<5.0	61.3	25.7
Lancaster	Tallmadge Elementary School	PK-5	B	405	56.6	<5.0	75.0	22.5
Lancaster	Tarhe Elementary School	K-5	A	430	31.9	5.1	83.9	15.7
Lancaster	Thomas Ewing Junior High School	6-8	B	701	52.0	5.3	85.2	15.7
Lancaster	West Elementary School	K-5	C	449	70.5	6.4	70.0	29.3
Liberty Union-Thurston	Liberty Union Elementary School	K-5	A	625	30.4	<5.0	88.7	10.2
Liberty Union-Thurston	Liberty Union High School	9-12	A	413	23.0	<5.0	88.9	6.4
Liberty Union-Thurston	Liberty Union Middle School	6-8	A	358	28.8	<5.0	92.9	5.3
Licking Hts.	Licking Heights Central	6-8	B	757	44.2	38.4	84.1	13.3
Licking Hts.	Licking Heights High School	9-12	A	826	39.3	38.6	76.7	16.0
Licking Hts.	Licking Heights North	4-5	A	417	43.5	37.5	87.9	12.4
Licking Hts.	Licking Heights South	2-4	A	774	38.4	33.9	64.8	8.3
Licking Hts.	Licking Heights West	K-1	NA	621	31.7	37.5	81.0	10.0
London	London Elementary School	PK-5	B	970	49.8	13.2	85.7	13.8
London	London High School	9-12	B	581	28.1	11.8	74.7	12.5
London	London MIddle School	6-8	C	448	49.3	12.4	86.9	16.5
Madison-Plains	Madison Rural Elementary School	K-5	B	247	40.3	6.1	88.1	16.4
Madison-Plains	Madison-Plains High School	9-12	A	445	29.7	<5.0	81.6	9.8
Madison-Plains	Madison-Plains Middle School	6-8	B	287	38.8	<5.0	90.4	12.6
Madison-Plains	Midway Elementary School	K-5	B	142	42.6	<5.0	83.3	20.1
Madison-Plains	Mt Sterling Elementary School	K-5	C	210	56.8	<5.0	80.7	20.9
Marysville	Bunsold Middle School	7-8	A+	857	23.7	5.1	91.8	5.8
Marysville	Creekview Intermediate Elementary School	5-6	A	836	25.2	5.7	91.1	7.0
Marysville	Edgewood Elementary School	K-4	A+	455	28.2	8.6	81.2	10.8
Marysville	Marysville High School	9-12	A	1,595	19.8	<5.0	84.3	8.2
Marysville	Mill Valley Elementary School	K-4	A+	519	8.8	8.2	86.6	5.8
Marysville	Navin Elementary School	K-4	A	386	26.5	7.0	82.1	8.5
Marysville	Northwood Elementary	K-4	A	433	20.6	7.4	66.5	13.8
Marysville	Raymond Elementary School	K-4	A+	264	18.4	7.3	85.5	11.7
New Albany-Plain	K-1 Elementary School	K-1	NA	553	5.2	22.9	89.0	7.6
New Albany-Plain	New Albany Elementary 2-3	2-3	A	713	6.6	24.2	85.6	7.2
New Albany-Plain	New Albany Elementary School 4-5	4-5	A+	752	8.6	26.2	90.2	5.9
New Albany-Plain	New Albany High School	9-12	A	1,195	6.7	20.5	91.7	4.8
New Albany-Plain	New Albany Middle School	6-8	A	978	7.2	24.0	91.9	5.0

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Newark	Ben Franklin Elementary School	K-5	A	324	85.9	16.3	62.0	35.6
Newark	Carson Elementary School	K-5	C	497	78.6	18.0	69.1	25.8
Newark	Cherry Valley Elementary School	PK-5	A	474	55.7	10.5	80.3	21.5
Newark	Heritage Middle School	6-8	B	429	70.1	16.7	72.3	24.4
Newark	Hillview Elementary School	PK-5	A+	439	57.4	10.7	75.5	27.1
Newark	John Clem Elementary School	K-5	A+	479	54.7	12.1	72.0	23.0
Newark	Legend Elementary	PK-5	A+	539	43.4	8.5	83.8	18.0
Newark	Liberty Middle School	6-8	B	479	44.3	11.3	86.8	14.9
Newark	McGuffey Elementary School	K-5	A	452	72.5	9.2	71.5	30.0
Newark	Newark High School	9-12	A	1,492	45.4	10.9	62.8	22.3
Newark	Wilson Middle School	6-8	B	431	65.5	15.9	83.4	24.0
Northridge	Northridge High School	9-12	A	480	17.4	<5.0	83.5	7.1
Northridge	Northridge Intermediate	4-5	B	223	18.4	<5.0	93.3	7.1
Northridge	Northridge Middle School	6-8	A	364	21.0	<5.0	92.6	4.1
Northridge	Northridge Primary	K-3	A	322	22.6	<5.0	86.5	9.4
Olentangy	Alum Creek Elementary School	K-5	A	632	<5.0	15.0	90.3	2.1
Olentangy	Arrowhead Elementary School	K-5	A	570	14.8	16.0	70.8	7.4
Olentangy	Cheshire Elementary	K-5	A+	496	<5.0	14.1	-	8.0
Olentangy	Freedom Trail Elementary	K-5	A+	642	<5.0	19.2	92.4	4.6
Olentangy	Glen Oak Elementary School	PK-5	A+	693	17.5	33.2	86.0	8.1
Olentangy	Hyatts Middle School	6-8	A	709	5.0	15.4	91.5	5.3
Olentangy	Indian Springs Elementary	K-5	A	645	<5.0	12.6	55.8	4.5
Olentangy	Johnnycake Corners Elementary School	PK-5	A+	557	<5.0	12.1	93.6	2.9
Olentangy	Liberty Tree Elementary School	PK-5	A+	755	<5.0	18.8	49.4	3.2
Olentangy	Oak Creek Elementary School	K-5	A	636	15.7	25.7	89.9	8.5
Olentangy	Olentangy High School	9-12	A	1,171	7.7	15.2	94.3	2.6
Olentangy	Olentangy Liberty High School	9-12	A	1,458	<5.0	11.2	95.5	1.6
Olentangy	Olentangy Liberty Middle School	6-8	A	800	<5.0	8.4	96.1	1.9
Olentangy	Olentangy Meadows Elementary School	K-5	A+	720	14.1	29.6	85.7	9.9
Olentangy	Olentangy Orange Middle School	6-8	A	1,113	12.0	21.4	92.2	4.2
Olentangy	Olentangy Shanahan Middle School	6-8	A	898	8.8	14.4	94.4	5.4
Olentangy	Orange High School	9-12	A	1,242	14.3	22.4	93.5	4.9
Olentangy	Scioto Ridge Elementary School	K-5	A	648	6.7	16.7	68.9	5.3
Olentangy	Tyler Run Elementary School	K-5	A+	646	<5.0	14.6	85.3	3.5
Olentangy	Walnut Creek Elementary	K-5	A+	595	<5.0	15.0	92.8	3.7
Olentangy	Wyandot Run Elementary School	PK-5	A+	638	<5.0	11.4	81.2	3.2
Pickerington	Diley Middle School	5-6	A+	546	16.1	34.0	92.3	7.7
Pickerington	Fairfield Elementary School	K-4	A+	467	15.4	37.4	84.9	10.8
Pickerington	Harmon Middle School	5-6	A+	595	23.2	42.5	86.9	8.8
Pickerington	Heritage Elementary School	K-4	A	399	16.7	25.2	85.0	12.5
Pickerington	Pickerington Elementary School	K-4	A+	498	15.7	38.9	80.4	14.4
Pickerington	Pickerington High School Central	9-12	A	1,640	22.2	37.6	86.9	8.7
Pickerington	Pickerington High School North	9-12	A	1,841	12.8	27.2	88.5	6.3
Pickerington	Pickerington Lakeview Junior High	7-8	A+	910	15.2	29.3	92.6	5.6
Pickerington	Pickerington Ridgeview Junior High School	7-8	A	863	18.7	36.8	89.8	7.9
Pickerington	Sycamore Creek Elementary School	K-4	A+	639	7.6	30.8	87.4	6.9
Pickerington	Toll Gate Elementary	K-4	A+	513	7.8	19.5	91.3	6.9
Pickerington	Toll Gate Middle School	5-6	A+	463	12.0	21.8	91.7	5.4
Pickerington	Tussing Elementary School	K-4	A	612	33.1	62.0	82.4	10.1
Pickerington	Violet Elementary School	K-4	A	341	8.2	19.2	90.1	6.8

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Reynoldsburg	Baldwin Road Junior High School	7-8	B	388	58.7	55.4	70.5	29.5
Reynoldsburg	French Run Elementary School	K-4	A	396	51.6	50.2	76.6	20.2
Reynoldsburg	Hannah J Ashton Middle School	5-6	A+	416	54.4	54.2	73.6	19.7
Reynoldsburg	Herbert Mills Elementary School	K-4	A+	382	68.7	61.6	66.3	25.7
Reynoldsburg	Reynoldsburg High School	9-12	A	1,540	33.6	48.1	62.8	19.2
Reynoldsburg	Reynoldsburg High School eSTEM	9-12	A	221	29.2	43.2	-	6.2
Reynoldsburg	Rose Hill Elementary School	K-4	A	350	52.1	52.9	73.6	18.1
Reynoldsburg	Slate Ridge Elementary School	K-4	A	510	45.1	48.6	56.6	17.2
Reynoldsburg	Taylor Road Elementary School	K-4	A	477	18.8	40.5	87.1	6.8
Reynoldsburg	Waggoner Road Junior High	7-8	A	597	35.4	45.8	81.7	12.4
Reynoldsburg	Waggoner Road Middle School	5-6	B	533	37.1	45.5	88.4	8.6
Southwest Licking	Etna Elementary School	1-5	B	596	24.6	11.2	89.7	6.7
Southwest Licking	Kirkersville Elementary School	1-5	A	311	30.3	8.2	82.9	11.7
Southwest Licking	Pataskala Elementary School	1-5	A+	550	38.8	12.5	84.9	9.2
Southwest Licking	Southwest Licking Kindergarten Elementary School	K	NA	153	19.2	12.5	-	11.1
Southwest Licking	Watkins Memorial High School	9-12	A	1,171	30.7	9.4	82.7	10.5
Southwest Licking	Watkins Middle School	6-8	A	930	32.7	8.1	89.3	10.0
South-Western	Alton Hall Elementary School	K-4	A	499	60.4	28.2	75.8	17.7
South-Western	Brookpark Middle School	7-8	B	609	46.9	16.8	84.4	14.8
South-Western	Buckeye Woods Elementary School	K-4	A+	728	14.2	9.4	91.2	4.6
South-Western	Central Crossing High School	9-12	C	1,613	43.0	26.5	77.1	16.5
South-Western	Darby Woods Elementary School	K-4	A	641	66.3	43.7	71.4	21.1
South-Western	Darbydale Elementary School	K-4	A	287	50.3	9.8	82.7	11.6
South-Western	East Franklin Elementary School	K-4	A	244	77.2	26.3	74.5	33.1
South-Western	Finland Elementary School	K-4	B	272	71.7	23.9	71.1	27.6
South-Western	Finland Middle School	7-8	C	606	74.5	34.6	79.9	18.9
South-Western	Franklin Heights High School	9-12	C	1,155	68.1	38.4	71.9	22.9
South-Western	Franklin Woods Intermediate School	5-6	C	655	77.4	40.2	75.4	17.8
South-Western	Galloway Ridge Intermediate School	5-6	A	631	72.3	37.9	70.6	26.2
South-Western	Grove City High School	9-12	A	1,830	22.6	9.1	85.6	11.5
South-Western	Hayes Intermediate School	5-6	A	457	22.6	6.6	90.3	4.3
South-Western	Highland Park Elementary School	K-4	A	420	52.8	18.5	79.2	20.0
South-Western	Holt Crossing Intermediate School	5-6	A	685	60.9	34.6	77.5	16.0
South-Western	Jackson Middle School	7-8	A+	638	22.9	7.7	86.4	9.8
South-Western	James A Harmon Elementary School	K-4	A	411	67.7	33.7	77.4	25.3
South-Western	JC Sommer Elementary School	K-4	A	532	40.6	9.8	84.7	11.1
South-Western	Monterey Elementary School	K-4	A	328	45.9	17.1	73.6	14.9
South-Western	North Franklin Elementary School	K-4	A	272	75.2	49.0	70.0	34.6
South-Western	Norton Middle School	7-8	A	503	69.7	39.7	72.6	31.0
South-Western	Park Street Intermediate School	5-6	A	656	55.6	16.9	81.8	10.1
South-Western	Pleasant View Middle School	7-8	B	835	62.0	33.5	74.9	19.0
South-Western	Prairie Lincoln Elementary School	K-4	B	468	67.3	35.9	65.9	38.3
South-Western	Prairie Norton Elementary School	K-4	C	439	81.0	60.7	64.9	32.7
South-Western	Richard Avenue Elementary School	K-4	B	396	54.2	29.8	74.2	17.0
South-Western	Stiles Elementary School	K-4	C	440	94.3	64.7	61.8	54.4
South-Western	West Franklin Elementary School	K-4	A	455	78.0	56.5	67.2	38.0
South-Western	Westland High School	9-12	C	1,499	64.5	39.8	70.1	25.6
Teays Valley	Ashville Elementary School	K-5	A	341	39.5	<5.0	62.9	13.2
Teays Valley	Scioto Elementary School	K-5	A+	542	25.7	8.6	76.2	6.9
Teays Valley	South Bloomfield Elementary	K-5	A	319	46.1	<5.0	-	15.2

Columbus Area public school buildings alphabetical by district and school name		Grade range	Rating	District attributes			Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Teays Valley	Teays Valley East Middle School	6-8	B	545	26.6	<5.0	87.0	10.1
Teays Valley	Teays Valley High School	9-12	A	1,124	24.3	<5.0	76.2	10.9
Teays Valley	Teays Valley West Middle School	6-8	A	349	26.7	<5.0	86.4	10.6
Teays Valley	Walnut Elementary School	K-5	A+	357	22.6	<5.0	63.8	8.8
Upper Arlington	Barrington Road Elementary School	K-5	A+	703	<5.0	<5.0	93.7	3.0
Upper Arlington	Greensview Elementary School	K-5	A+	379	<5.0	19.1	91.4	5.7
Upper Arlington	Hastings Middle School	6-8	A	639	<5.0	11.2	94.8	4.1
Upper Arlington	Jones Middle School	6-8	A+	622	<5.0	7.8	95.9	2.2
Upper Arlington	Tremont Elementary School	K-5	A+	519	6.0	19.5	90.6	4.8
Upper Arlington	Upper Arlington High School	9-12	A	1,786	<5.0	9.1	95.7	2.5
Upper Arlington	Windermere Elementary School	K-5	A+	438	<5.0	7.8	95.1	2.5
Walnut Township	Millersport Elementary School	K-6	B	330	51.7	<5.0	82.7	17.0
Walnut Township	Millersport Jr/Sr High School	7-12	C	299	42.8	<5.0	73.1	14.5
Westerville	Alcott Elementary School	K-5	A	632	5.2	15.3	88.8	1.9
Westerville	Annehurst Elementary School	K-5	A	339	47.0	54.3	76.9	10.4
Westerville	Blendon Middle School	6-8	A+	617	27.2	34.9	88.2	5.9
Westerville	Central College Elementary School	1-5	A	130	18.4	25.5	92.2	3.1
Westerville	Cherrington Elementary School	K-5	A	331	39.2	37.0	74.9	12.9
Westerville	Emerson Elementary School	1-5	A+	253	12.2	25.9	90.6	2.0
Westerville	Fouse Elementary School	K-5	A	664	17.0	25.5	83.5	13.3
Westerville	Genoa Middle School	6-8	A	1,042	19.4	29.3	90.1	6.9
Westerville	Hanby Building Elementary School	1-5	A	329	12.0	14.2	90.8	5.4
Westerville	Hawthorne Elementary School	K-5	B	593	56.4	56.6	77.3	12.9
Westerville	Heritage Middle School	6-8	A	815	38.8	45.0	86.3	9.3
Westerville	Huber Ridge Elementary School	K-5	B	538	58.8	47.3	76.5	11.6
Westerville	Longfellow Elementary School	1-5	A+	130	7.7	23.1	93.9	0.8
Westerville	Mark Twain Elementary School	K-5	A	439	34.3	37.4	79.0	12.6
Westerville	Mcvay Elementary School	K-5	A+	440	31.8	38.2	72.9	17.6
Westerville	Pointview Elementary School	K-5	A	262	69.1	60.7	64.7	17.0
Westerville	Robert Frost Elementary School	K-5	A	434	24.6	30.4	79.9	12.2
Westerville	Walnut Springs Middle School	6-8	B	900	32.7	34.6	85.4	9.2
Westerville	Westerville Central High School	9-12	A	1,557	19.3	32.3	84.4	9.9
Westerville	Westerville-North High School	9-12	A	1,456	20.0	32.0	83.0	9.3
Westerville	Westerville-South High School	9-12	A	1,495	27.4	37.3	82.8	9.5
Westerville	Whittier Elementary School	K-5	A	279	30.1	32.0	71.4	15.6
Westerville	Wilder Elementary School	K-5	B	432	36.8	42.0	74.2	13.8
Westfall	Westfall Elementary School	K-5	B	709	50.4	<5.0	86.1	13.2
Westfall	Westfall High School	9-12	B	506	33.4	<5.0	84.0	9.0
Westfall	Westfall Middle School	6-8	B	400	51.7	<5.0	85.9	9.7
Whitehall	Beechwood Elementary School	K-5	C	469	80.4	46.4	69.7	26.7
Whitehall	Etna Road Elementary School	K-5	B	421	76.2	46.4	65.3	18.4
Whitehall	Kae Avenue Elementary School	K-5	D	485	88.6	74.6	61.3	23.4
Whitehall	Rosemore Middle School	6-8	C	637	77.4	54.7	74.4	20.4
Whitehall	Whitehall Yearling High School	9-12	B	800	63.5	53.2	61.6	23.2
Worthington	Bluffsview Elementary School	K-6	A	429	22.2	28.7	86.2	6.0
Worthington	Brookside Elementary School	K-6	B	313	42.7	39.3	80.9	9.8
Worthington	Colonial Hills Elementary School	K-6	B	328	37.4	37.7	84.6	6.0
Worthington	Evening Street Elementary School	K-6	A+	498	7.0	11.6	96.3	2.2
Worthington	Granby Elementary School	K-6	A	448	27.6	28.2	82.3	8.1
Worthington	Kilbourne Middle School	7-8	A+	333	24.6	21.9	92.7	3.9

Columbus Area public school buildings alphabetical by district and school name		District attributes					Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Worthington	Liberty Elementary School	K-6	A	487	27.6	20.0	88.0	9.2
Worthington	Mccord Middle School	7-8	A+	505	24.4	23.8	86.8	5.3
Worthington	Phoenix Middle School	7-8	A+	162	13.6	17.0	93.8	0.6
Worthington	Slate Hill Elementary School	K-6	B	470	51.9	45.6	78.7	13.3
Worthington	Thomas Worthington High School	9-12	A	1,517	20.1	24.7	85.2	8.4
Worthington	Wilson Hill Elementary School	K-6	A	491	26.8	26.4	81.8	8.2
Worthington	Worthington Estates Elementary School	K-6	A	502	25.5	34.5	81.9	15.1
Worthington	Worthington Hills Elementary School	K-6	A	448	6.8	10.8	93.0	3.6
Worthington	Worthington Kilbourne High School	9-12	A	1,283	16.1	19.2	89.7	5.7
Worthington	Worthington Park Elementary School	K-6	A	443	21.6	37.1	82.8	15.3
Worthington	Worthingway Middle School	7-8	B	368	29.9	33.0	86.2	6.0

Appendix C. Columbus Area public charter schools, school year 2010–2011 (unless noted)

Columbus Area public charter schools alphabetical by school name				District attributes			Mobility measures	
District of location	School *denotes dropout recovery school	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Columbus	A+ Arts Academy	K-12	B	251	88.0	>95.0	40.0	21.2
Columbus	Academic Acceleration Academy*	9-12	F	181	>95.0	86.4	11.8	120.3
Columbus	Academy of Columbus	K-8	F	303	89.9	92.4	54.2	17.8
Columbus	Arts & College Preparatory Academy	9-12	A	291	55.4	51.7	70.4	25.1
Columbus	C.M. Grant Leadership Academy	K-8	F	162	<5.0	>95.0	39.1	40.0
Columbus	Capital High School*	8-12	NA	15	>95.0	>95.0	-	60.0
Columbus	Cesar Chavez College Preparatory School	K-5	D	80	90.2	>95.0	55.6	41.7
Columbus	Charles School at Ohio Dominican University	9-12	B	290	61.2	83.7	50.6	16.8
Columbus	Columbus Arts & Technology Academy	K-12	C	385	58.7	>95.0	50.6	28.9
Columbus	Columbus Bilingual Academy	K-8	C	195	94.1	>95.0	50.0	13.7
Columbus	Columbus Bilingual Academy-North	K-8	D	112	91.1	>95.0	-	22.8
Columbus	Columbus Collegiate Academy	6-8	B	103	93.4	>95.0	40.7	33.0
Columbus	Columbus Humanities, Arts and Technology Academy	K-12	D	7,927	>95.0	>95.0	42.7	44.6
Gahanna-Jefferson	Columbus Performance Academy	K-8	NA	64	93.3	>95.0	-	43.5
South-Western	Columbus Preparatory Academy	K-12	A+	650	72.1	42.6	61.8	18.5
South-Western	Columbus Preparatory and Fitness Academy	K-8	D	134	85.3	77.4	31.9	32.2
New Albany-Plain	Cornerstone Academy Community	K-12	B	389	42.7	51.7	62.6	22.7
Columbus	Crittenton Community School	6-9	F	97	89.4	62.6	50.0	95.1
Groveport Madison	Cruiser Academy*	9-12	F	171	17.9	62.6	-	109.2
Columbus	Educational Academy at Linden	K-12	D	102	20.8	>95.0	51.5	7.5
Columbus	Educational Academy for Boys & Girls	K-12	NA	85	81.5	>95.0	83.3	17.3
Columbus	FCI Academy	K-12	C	370	87.6	>95.0	60.0	32.3
Columbus	Focus Learning Academy of Northern Columbus*	K-12	F	291	88.8	90.7	30.0	101.3
Columbus	Focus Learning Academy of Southeastern Columbus*	9-12	F	239	92.0	90.7	17.0	151.6
Columbus	Focus Learning Academy of Southwest Columbus*	9-12	D	344	89.9	55.3	13.9	181.7
Gahanna-Jefferson	Gahanna Alternative Community School	5-12	B	123	38.1	27.9	47.5	63.8
Columbus	Graham Expeditionary Middle School	5-8	C	81	61.8	66.9	-	20.5
Columbus	Great Western Academy	K-8	B	593	65.4	59.1	63.5	13.4
Groveport Madison	Groveport Community School	K-8	D	155	39.4	55.0	54.9	22.7
Hamilton	Hamilton Local Digital Academy*	K-12	C	98	33.3	16.2	31.1	167.9
Columbus	Harrisburg Pike Community School	K-8	D	277	76.0	56.3	47.7	15.6
Columbus	Horizon Science Academy Columbus	9-12	A	377	69.5	86.8	60.9	14.6
Westerville	Horizon Science Academy Columbus Middle School	6-8	B	309	93.5	86.1	65.3	22.4
Columbus	Horizon Science Academy Elementary School	K-5	B	286	74.5	88.9	67.8	7.0
Worthington	International Acad Of Columbus	K-10	C	199	>95.0	74.9	48.5	31.3
Columbus	KIPP: Journey Academy	5-8	B	243	92.2	93.7	58.8	18.5
Lancaster	Lancaster Fairfield Community School*	9-12	C	45	77.7	<5.0	17.4	181.3
Columbus	Life Skills Center of Columbus North*	9-12	C	207	83.2	65.8	6.3	175.4
Columbus	Life Skills Center of Columbus Southeast*	9-12	C	276	79.4	75.5	10.3	229.3
Columbus	Midnimo Cross Cultural Community School	K-12	F	148	89.9	>95.0	55.0	22.6
Columbus	Millennium Community School	K-8	C	656	81.2	>95.0	50.0	23.1
Columbus	New Beginnings Academy*	8-12	NA	61	88.1	>95.0	-	14.3
Columbus	Noble Academy-Columbus	K-12	B	186	80.1	41.7	48.6	24.3
Columbus	Northland Preparatory and Fitness Academy	K-8	C	247	85.6	89.3	53.0	32.3
Columbus	Notten School for Science, Technology, Engin. and Math	K-12	NA	67	73.9	>95.0	-	110.2
Columbus	Oakstone Community School	K-12	A	236	12.4	16.3	90.9	12.8
Newark	Par Excellence Academy	K-6	B	133	62.1	30.1	55.6	16.3
Columbus	Patriot Preparatory Academy	K-12	C	436	42.1	87.8	-	6.6

Columbus Area public charter schools alphabetical by school name		District attributes					Mobility measures	
District of location	School *denotes dropout recovery school	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Columbus	Performance Academy Eastland	K-8	C	244	87.0	85.4	62.7	33.9
Columbus	Premier Academy of Ohio	7-12	D	210	94.8	85.7	42.2	54.6
Columbus	Providence Academy for Student Success	K-12	F	219	91.3	>95.0	37.2	39.4
Columbus	Pschtecin Public School*	8-12	F	82	>95.0	74.4	32.0	95.0
Reynoldsburg	RCCS*	9-12	F	77	34.5	51.8	-	170.5
Columbus	Road to Success Academy*	8-12	NA	44	55.1	>95.0	-	56.8
Columbus	Scholarts Preparatory and Career Center for Children	K-12	F	179	45.4	69.4	45.5	64.4
Columbus	South Scioto Academy	K-6	C	148	66.6	91.4	41.8	38.9
Columbus	Sullivant Avenue Community School	K-5	C	387	73.9	77.7	45.9	18.6
Columbus	Summit Academy Columbus	K-10	NA	40	74.0	52.5	37.5	41.7
Columbus	Summit Academy Middle School - Columbus	5-12	F	41	75.4	47.8	37.5	17.5
Columbus	Summit Academy Transition High School-Columbus	9-12	C	40	64.2	44.2	55.9	19.0
Columbus	The Arch Academy*	8-12	NA	84	89.8	>95.0	-	11.8
Columbus	The Graham School	9-12	C	232	33.6	29.7	67.8	23.6
Columbus	W. C. Cupe College Preparatory School	K-12	NA	101	73.2	>95.0	42.7	0.0
Columbus	Westside Academy	K-8	B	149	>95.0	92.3	54.1	25.9
Columbus	Whitehall Preparatory and Fitness Academy	K-8	C	278	86.8	94.5	56.0	20.5
Upper Arlington	Wickliffe Progressive Community School	K-5	A+	456	<5.0	14.0	90.7	4.3
Columbus	Youthbuild Columbus Community*	9-12	A	234	80.6	94.1	74.8	21.5
Gahanna-Jefferson	Zenith Academy	K-12	C	310	>95.0	>95.0	48.5	39.3
Columbus	Zenith Academy East	K-8	NA	101	>95.0	>95.0	-	67.1

Ohio Student Mobility Research Project

Dayton Area Profile

November 2012

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Summary

Student mobility is the phenomenon of students in grades K-12 changing schools for reasons other than customary promotion from elementary to middle school and middle to high school. This change may happen during the school year or over the summer. Mobility has consequences for schools, students, communities, and public policy. Research has found that students who change schools most frequently have worse educational outcomes.

In 2011, Community Research Partners and the Thomas B. Fordham Institute entered into a partnership to conduct research on student mobility in Ohio. The research analyzes more than five million student records over two school years to provide a picture of student mobility for all Ohio public districts and buildings and public charter schools, with in-depth analysis for the Columbus, Cleveland, Cincinnati, Dayton, and Toledo areas.

The Dayton Area Profile

The Dayton Area Profile focuses on the mobility of 14,174 Dayton Public Schools (DPS) students and that of the more than 200,000 students in the other 60 public districts, 39 physical charter schools, and e-charters in an approximate 30 mile radius of DPS (the research includes only Ohio schools and students). For analysis purposes, Dayton Area districts are divided into Ring 1—those adjacent to DPS and/or within Montgomery County—and Ring 2, the remaining districts.

Magnitude of mobility

The magnitude of mobility examines *how many* students change schools, both during the school year and between school years, and is measured in two ways: 1) cohort stability and 2) churn.

Cohort stability: measures retention of students over time

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

In the least stable Dayton Area districts, about one of every three students in a school at the beginning of a school year is not in that same building at the end of a second school year. The most stable districts lose fewer than one in ten students.

Grades K-7 building stability
- **Dayton Public Schools.** Sixty-nine percent of a cohort of students in grades K-7 remained in the same DPS building over two years, the third lowest stability rate of the 18 Dayton Area Ring 1 districts.
- **Other less stable districts.** Jefferson Township had the lowest building stability rate (65.9%) among the Ring 1 districts. Trotwood-Madison and Mad River had building stability rates of 70% or less for grades K-7.
- **Most stable districts**. Oakwood and Brookville had building stability rates of 90% or greater for grades K-7.

Grades 8-11 building stability
- **Dayton Public Schools.** Sixty-five percent of a cohort of students in grades 8-11 remained in the same DPS building over two years, the second lowest stability rate of the 18 Dayton Area Ring 1 districts.
- **Other less stable districts.** Trotwood-Madison had the lowest building stability rate (64.4%) among the Ring 1 districts. Fairborn, Jefferson Township, Northridge, and New Lebanon also had building stability rates of 70% or less for grades 8-11.
- **Most stable districts**. Centerville and Oakwood had building stability rates of 90% or greater for grades 8-11.

Charter school stability

- Only seven of the 49 largest charter schools in the Dayton Area had stability rates of 70% or more, while 22 schools had rates of less than 50%, losing half or more of their students over two years. The least stable charter schools are primarily dropout recovery schools.

Churn: measures movements into and out of a building or district

What are the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

There were more than 12,000 admissions to and withdrawals from schools in the 18 Dayton Area Ring 1 districts during the 2010-2011 school year. For most of these districts, churn in grades K-8 resulted in a net gain of students (more admissions than withdrawals), while the churn in grades 9-12 produced a net loss of students (more withdrawals than admissions).

District churn

- **Dayton Public Schools.** The DPS K-8 churn rate (18.2%) and the 19.4% churn rate for grades 9-12 were the fourth highest among the 18 Ring 1 district. The 16 DPS buildings with the most churn have rates ranging from 26% to 295%. The building with the most churn is the Longfellow Alternative School.

- **Other high churn districts.** The Northridge, Trotwood-Madison, and Jefferson Township districts had K-12 churn rates of more than 20%.

- **Lowest churn districts**. Among the Dayton Area Ring 1 districts, only Oakwood had a K-12 churn rate of below 4.0%.

Charter school building churn

- Only three of the 37 largest physical charter schools in the Dayton Area had churn rates below 10%. Seven schools had rates of greater than 50%. The charter schools with the greatest churn (90-175%) are primarily dropout recovery schools.

Mobility Patterns

Mobility patterns show the movement of students between school districts and buildings and between public districts and charter schools, as well as the characteristics of origin and destination schools. The analysis includes: 1) district and building mobility patterns, 2) report card ratings of origin and destination schools, and 3) inter-district open enrollment analysis.

Mobility patterns: districts and buildings that exchange students

How many unique students did pairs of districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts?

Over two school years, the 61 public districts in the Dayton Area exchanged 14,559 students. Another 10,479 students were exchanged between public districts and charter schools (both physical and e-charters). The largest numbers of exchanges were between schools in close proximity to each other, but Dayton Area schools also exchanged students with schools from across the state.

Dayton Public Schools

Over two school years, 5,164 unique students transferred between DPS and another Ohio district or charter school. Of these, 55% moved to or from another district, 37% moved to or from a physical charter school; and 8% moved to or from an e-charter school. During this time period 1,535 made a non-promotional change of schools within the DPS district.

- **Dayton Public Schools exchanges with other districts.** Over two school years, 3,047 students were enrolled in a DPS school and in one of the 30 Ohio public districts that exchanged the most students with DPS. In these exchanges, 1,458 students entered DPS from another district, and

1,589 students left DPS for another district. The districts that exchanged at least 300 students with DPS were Trotwood-Madison and Huber Heights.

- **Dayton Public Schools exchanges with charters.** Over two school years, 2,643 students were exchanged between DPS schools and 30 charter schools. Eighty-three percent of these exchanges were from DPS to a physical charter school, and 17% were with e-charters, led by eCOT (288 students).

- **Dayton Public Schools exchanges with buildings in other districts.** About one-half of DPS intra-district building moves occurred at the K-8 school level and half at the high school level. DPS Belmont and Dunbar high schools exchanged a total of at least 40 students each with high schools in the Fairborn, Huber Heights, Kettering, Mad River, Northmont, Northridge, Springfield City, Trotwood-Madison, and West Carrollton districts. Edison PreK–8 School was the only DPS elementary school to exchange 40 or more students with elementary schools in other districts—those being the Northridge and Trotwood-Madison districts.

- **Exchanges among Dayton Public Schools buildings.** Over the two school years, 1,513 DPS students made a non-promotional change of school within the DPS district. Of the 30 buildings that exchanged the most students, Longfellow Alternative was the most frequent receiving school, followed by Meadowdale High and Thurgood Marshall High. The most frequent sending schools were Longfellow Alternative, Belmont High, and Dunbar High.

Other Dayton Area districts

- **Exchange patterns among districts.** Over two years, there were 6,024 student exchanges among the 25 largest Dayton Area districts (excluding DPS). The Kettering, Huber Heights, Middletown, and Franklin districts had the most inter-district exchanges. Districts that exchanged more than 150 students were Middletown and Edgewood, Miamisburg and West Carrollton, Kettering and Centerville, Little Miami and Lebanon, and Piqua and Troy.

Origin and destination report card ratings

What is the performance rating of the destination school of mobile students, compared to the rating of the school of origin?

For students who moved into, out of, or within the DPS district, the state report card rating of the student's destination school, when compared to that of the school of origin, varied based on the types of buildings or districts involved in the move:

- **Exiting Dayton Public Schools for another district.** Sixty-four percent went to a school with a rating two or more ratings higher; 33% percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin.

- **Entering Dayton Public Schools from another district.** Sixty percent went to a school with a rating two or more ratings lower; 40% percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin.

- **Exiting Dayton Public Schools for a charter school.** Sixty-nine percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin; 25% went to a school with a rating two or more ratings higher.

- **Changing schools within Dayton Public Schools.** Seventy-eight percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin.

Open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

As of school year 2010–2011, DPS was primarily surrounded by districts that did not accept open enrollment students from other districts. However, many districts in the Dayton Area—particularly those in Ring 2—do permit open enrollment. Thirteen pairs of districts had at least 50 students who resided in one district, but attended school in another district through inter-district open enrollment, including from a Springfield residence to Clark-Shawnee enrollment (273), Dayton to Northridge (173), Springfield to Northwestern (101), and Middletown to Madison (86).

Mobility and the student

The analysis of mobility and DPS student characteristics and achievement examines differences in: (1) demographics of mobile and non-mobile student groups, (2) demographics of students who left the district based on the type of destination school, and (3) proficiency test scores based on mobility status.

Student characteristics and mobility status

How do stable DPS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

- **Movers between Dayton Public Schools buildings.** Compared to stable DPS students, those who move between DPS buildings are more likely to be economically disadvantaged, homeless, or have a disability.

- **Outgoing and incoming students.** Compared to DPS students leaving the district, incoming students are more likely to be black, an immigrant, or LEP.

Student characteristics and destination of outgoing students

How do the characteristics of outgoing DPS students differ based on their destination school?

- **Race.** Compared to other racial groups, black students are more likely to move to a physical charter school or to a district outside of Ohio; white students are more likely to move to an e-charter or to a district outside of Ohio; and Hispanic students are more likely to move to a district outside of Ohio.

- **Immigrant and LEP.** Immigrant and LEP students are more likely than those who are not and immigrant or LEP to move to a district outside of Ohio..

Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

Mobility history and economic disadvantage of test takers

Of the 2,053 third- and eighth-grade DPS students who took the OAA tests in spring 2011, about one-in-three third-grade test takers and one-in-four 8th-grade test takers made at least one non-promotional move during the previous two school years. The largest mover groups were those who made one summer-only group or one move during the school year.

Mobility history and test scores

For all groups other than summer-only movers there is a general downward trend in average test scores and passage rates for 3rd and 8th grade OAA tests—with the exception of 3rd grade reading—with each successive school change that a DPS student made. (Figures 1 and 2). All mover groups who moved at least once during the school year had lower average test scores and passage rates than

students who did not change schools over the previous two years. However, the scores were the same or slightly higher for the group with only one summer move than for the 0-mover group.

Statistical modeling compared mean test scores for mover groups. For the 3rd grade groups, the number of school changes over the previous two years is an independent predictor of 3rd grade math scores, but this relationship was not found for 3rd grade reading scores. Race or ethnicity was also found to be an independent predictor of test scores, but not as strong as for the 8th grade test. Economic disadvantage was found to be a predictor of 8th grade test scores, but there were not enough students in the "non-economic disadvantage" group to test this for 3rd grade students.

Mobility and achievement test roll-up level

An impact of student mobility is that mobile students may not meet the enrollment criteria— continually enrolled in a building or district from October 31 until the spring achievement testing date—for counting their test scores in a building's or district's performance rating. Instead, their test score is "rolled up" and counts only for the district or state rating. Among the Dayton Area Ring 1 districts, Jefferson Township has the highest percentage of students whose achievement test scores are rolled up to the state (22.2%). The DPS figure (10.1%) is the 9th highest among the 15 Major Urban districts.

Statewide context

To provide context for the data in the Dayton Area Profile, Table i includes comparison data on key district demographics and selected mobility measures for the 15 public school districts classified by ODE as "Major Urban," as well as for all public districts and all public charter schools in the state.

Table i. Ohio Major Urban Districts: District and student characteristics, school year 2010–2011 (SY 2011)

	Rating	Average daily enrollment	Enroll. chg. since SY 2001 (%)	Economic disadvan. (%)	Minority race or ethnicity (%)	Two-year district stability rate, Oct. 2009–May 2011 (%)		Two-year building stability rate, Oct. 2009–May 2011 (%)		One-year churn rate, school year 2010–2011 (%)		Test roll-up to state (4) (%)
						Grades K–7	Grades 8–11	Grades K–7	Grades 8–11	Grades K–8	Grades 9–12	
All Ohio public school districts (1)	-	1,637,230	-6.2	43.1	23.3	85.9	81.5	80.8	78.0	9.5 (2)	9.1 (2)	4.5
All Major Urban districts	-	244,396	-39.6	82.6	70.1	77.6	70.0	64.3	60.5	16.5 (2)	22.7 (2)	9.1
Akron	C	22,603	-25.3	84.7	59.5	81.5	77.1	68.9	66.2	12.3	18.2	4.3
Canton	C	9,750	-18.3	80.6	51.8	82.0	80.2	68.1	74.6	15.6	21.3	5.6
Cincinnati	B	32,009	-20.3	69.7	75.8	77.6	72.2	65.0	58.7	16.2	15.2	8.1
Cleveland	D	43,202	-40.2	>95.0	85.4	76.5	66.1	54.7	57.7	16.2	30.8	7.1
Cleveland Hts.-Univ. Hts.	C	5,907	-14.3	61.3	83.0	79.4	72.1	73.8	66.9	15.8	22.7	14.2
Columbus	C	49,616	-22.0	81.9	73.0	76.5	70.4	67.4	61.8	18.5	23.5	10.1
Dayton	C	14,174	-31.1	92.5	74.8	78.5	71.5	68.8	64.8	18.2	19.4	7.9
East Cleveland	D	3,182	-43.7	88.5	>95.0	69.1	62.6	64.6	61.6	23.9	22.9	10.2
Euclid	C	5,793	-4.3	66.0	83.6	77.1	76.8	68.6	72.8	16.9	16.4	7.3
Hamilton (Butler County)	C	9,444	<0.1	69.2	24.6	80.7	74.9	68.4	66.2	18.7	22.4	8.2
Lorain	C	7,585	-26.3	84.5	72.0	77.2	71.8	60.4	53.9	19.8	25.6	8.5
Springfield (Clark County)	B	7,398	-24.2	76.3	37.9	81.3	69.7	64.7	51.4	14.5	24.0	6.1
Toledo	C	22,277	-39.4	76.6	60.0	74.9	60.1	63.5	49.0	16.5	31.1	8.7
Warren	D	5,368	-20.9	75.2	53.8	79.0	71.2	63.0	65.5	15.5	18.8	5.3
Youngstown	D	6,088	-42.5	91.9	83.1	74.3	65.3	60.5	55.3	20.4	27.4	8.2
All Ohio public charter schools	-	113,698	-	75.0	60.8	-	-	50.6 (3)		27.2 (2,3)		13.7
E-charters	-	3,3052	-	64.7	21.0	-	-	44.2 (3)		129.9 (2,3)		30.8

Source: Ohio Department of Education; CRP analysis of ODE enrollment records

Note: District rating A+=Excellent with Distinction, A=Excellent, B=Effective, C=Continuous Improvement, D=Academic Watch, F=Academic Emergency.

(1) Public school district data in this table do not include the island districts or College Corner.

(2) Median of churn rates

(3) Churn rates for grades K-11 or K-12

(4) Among spring 2011 math achievement assessment test-takers in grades 3 to 8 reported by district (or charter school), the percentage whose scores were rolled up to state level; i.e., student was not continuously enrolled in district (or charter school) since last day of October for same academic year.

1.0 Introduction

1.1 What is student mobility?

Student mobility is the phenomenon of students in grades K-12 changing schools for reasons other than customary promotion from elementary school to middle school or from middle school to high school. This non-promotional school change can occur during the school year or in the summer between school years. It may involve residential change, school change, or both.

Students may change schools for reasons that are considered positive, such as when a family moves to a better school, neighborhood, or job. In fact, the current education policy environment sends a strong message to parents that school choice—which typically involves school change—is good. Community-based charter schools and school voucher programs are examples of school choice policy initiatives. The federal No Child Left Behind Act of 2001 (NCLB) requires that school districts provide students in schools identified as "In School Improvement," based on trends in proficiency test passage rates, with the opportunity to transfer to a school not designated as "In School Improvement."

1.2 The importance of understanding student mobility

Student mobility has consequences for schools, students, communities, and public policy. Research has found that students who change schools more frequently are likely to have worse educational outcomes. Highly mobile students are also more likely to be those with other risk factors—low income, special education, homelessness, or an unstable home environment. School changes worsen the learning and achievement problems of these at-risk children.

High student mobility puts a stress on teachers and administrators who must continually focus on incorporating new students into the building and classroom. Stable students in schools with high mobility also suffer from the disruptions to the classroom environment and the slower instructional pace necessary to accommodate new students. School districts face increased administrative costs from student mobility, including costs related to student records transfer and transportation.

There are community impacts of high student mobility that reach beyond the school. Neighborhoods and school districts with low performing schools and unstable school populations are disincentives to home ownership and economic development. Investments in school-based initiatives to improve attendance, academic achievement, and graduation rates are less effective if students move from school to school, dropping in and out of programs.

Finally, student mobility has important consequences for state and local education policy. A better understanding of how mobility impacts schools and students has implications for accountability measurement, education funding, and curriculum and instruction.

1.3 The Ohio Student Mobility Research Project

History of the project

In 2011, Community Research Partners (CRP) and the Thomas B. Fordham Institute (Fordham) entered into a partnership to conduct research on student mobility in Ohio. Fordham, a national leader in advancing educational excellence through quality research, commentary, and advocacy, wanted to build on their recent research on student mobility in the Dayton area and examine student mobility throughout the state. CRP brought to the project its experience in undertaking research on student mobility in the Columbus City Schools (CCS) and in processing and analyzing student-level records from the Ohio Department of Education (ODE).

In June 2011, Fordham provided CRP with a planning grant to develop a workable research plan. ODE provided CRP with student-records from the Education Management Information System (EMIS). Beginning with the 2008-2009 school year, EMIS has included unique student identifiers that enable tracking of individual students over time as they enter and exit public districts and public

charter schools in Ohio. With assistance from ODE staff in understanding and using the EMIS data, CRP analyzed student records for Franklin County districts. The outcome of the planning phase was a design for a large-scale study of student mobility in Ohio, to be conducted by CRP. Work on the project began in February 2012.

Project funders

The diverse set of project funders is indicative of the importance of the issue of student mobility. Funders are supporting the Ohio Student Mobility Research because of their interest in understanding: 1) the patterns of student mobility in Ohio or in a local community, 2) the impact of mobility on students and schools, and/or 3) the implications of mobility for state and local public policy. In addition to Fordham, funders include: The Siemer Institute for Family Stability, The Nord Family Foundation, The Cleveland Foundation, KnowledgeWorks, KidsOhio.org, American Federation of Teachers/Ohio Federation of Teachers, School Choice Ohio, United Way of Central Ohio, United Way of Greater Toledo, and The Columbus Foundation.

Research components

CRP and Fordham are not aware of other research that has examined student mobility at the scale, scope, and level of detail of the Ohio Student Mobility Research. The research employs descriptive and analytic statistics—presented in spreadsheets, visualizations, and reports—to provide a picture of student mobility for all Ohio public school districts and buildings and public charter schools, with in-depth analysis for five large urban regions (Columbus, Cleveland, Cincinnati, Dayton, Toledo).

The research also addresses several state policy issues of interest to Fordham: 1) open enrollment patterns, 2) "non-counters" profile (students whose test scores do not count in district performance ratings), and 3) monthly enrollment profiles of public districts. The project did not include collecting qualitative data from students, families, school personnel, or other stakeholders to determine why students change schools or the impact of student mobility.

About the data

As would be expected when undertaking such complex research, CRP made a number of decisions, in consultation with Fordham and ODE, about data analysis methods, definitions, and parameters. There are also a number of caveats about the data that are important to understand. These are described below.

The dataset

The dataset includes ODE EMIS files (student standing, student attributes, and student achievement tests) with 2.1 million unique students in grades K-12 during the 2009-10 and 2010-11 school years. (about five million instances of enrollment). The following were excluded from the analysis dataset:

- Non-instructional relationship between student and district, i.e. district provides only supportive services to student or has a residual reporting requirement for student

- Zero days in attendance over entirety of enrollment record

- Educational Service Centers

- Preschools and preschool students

- Foreign exchange students

- Kindergarten withdrawals

- Island Districts and College Corner, which are very small or geographically isolated

In school year 2010-11, the 1.79 million unique students included:

- 1.66 million students in 612 public school districts and 3,293 public school buildings

- 81,800 students in 313 "bricks and mortar," or physical, public charter schools

- 48,900 students in 26 accredited e-charters, a subset of charter schools

- 1,500 students in state schools for the deaf and blind

- 93,400 students in 71 vocational schools

Definitions

Charter schools. Ohio public charter schools (called "community schools" by ODE) include "bricks and mortar" schools that have school buildings and accredited e-charters, where teaching is done on-line. For brevity and clarity in this report, these two types of charter schools are referred to as: 1) *physical charter schools* and 2) *e-charter schools*.

School year. For most of the analysis, a school year is defined as beginning on October 1 (the official fall enrollment count date for Ohio schools) and ending on May 15. This was done to accommodate the various starting and ending dates of schools across the state.

Mobility-related terms. Report sections 3.0, 4.0, and 5.0 begin with definitions and other information related to the mobility measures used in this report.

Local context

The research scope and timeline did not include collecting information on unique situations in local districts or charter schools, not always evident in the EMIS dataset, which may contribute to or explain mobility rates and patterns. These may include: 1) competitive magnet or alternative schools that only admit students at the beginning of the school year, 2) school building demolition, renovation, or new construction that result in large numbers of students changing buildings; 3) starting, ending, or moving special programs (programs for students with disabilities, LEP students); 4) grade realignment (changing a school from K-5 to K-8); or 5) special purpose schools, (dropout recovery, welcome/transition schools) that by design involve students moving in and out throughout the year. CRP and Fordham hope that discussion of the research by local education stakeholders will provide this additional context for the data analysis.

Reliability of student identification numbers

This research is only possible because ODE has unique statewide student identifiers (SSID) that enable tracking students across public schools and districts. However, there is anecdotal evidence from district staff and others familiar with student recordkeeping that a new identifier is sometimes assigned to a student who enrolls in a new district. Because ODE records do not include student names, it was not possible for CRP to determine the extent to which this is happening; however, ODE data staff believes that it involves a very small number of cases.

The school attendance data controversy

As this report is being written, the State Auditor is examining student attendance data for districts across Ohio. It is alleged that some school staff withdrew students they knew to be still enrolled, deleted their absences, and then re-enrolled them, for the purpose of improving school ratings. This practice would increase a school's attendance rate, and only the test scores of students who have been continually enrolled from October through the spring proficiency test dates are counted in a school's overall test-passage rate.

This does not, however, impact the Ohio Student Mobility Research for the following reasons:

1. Student attendance records were not used for the research.

2. For the purposes of calculating building churn rates, a student who was withdrawn and then readmitted to the same building in less than 30 days was treated as continuously enrolled rather than as an exit/reentry event. It was assumed that this was an administrative action and not a school move.

3. Analysis of the relationship of mobility to proficiency test scores is based on individual student records. Building-level test passage rates were not used.

In addition, this research includes a profile of "non-counters"—students whose test scores do not count in building or district report cards—which can help to inform this important dialogue.

Caveats about accuracy

CRP has been very careful in collecting, analyzing and presenting data to prepare the Ohio Student Mobility Research Project report. However, the project did not include authenticating the data provided by ODE. If careful readers of the report discover data errors or typographical errors, CRP welcomes this feedback and will publish corrections to the report.

The Dayton Area Profile

This report is a mobility profile of students in the Dayton Area. It focuses on the mobility of Dayton Public Schools students and how students move within the district and between and among 50 districts and 39 physical charter schools within an approximate 30 mile radius of DPS. The analysis includes:

- **Magnitude of mobility:** stability of students within districts and buildings (cohort stability) and numbers of movements into and out of districts and buildings (churn)

- **Mobility patterns:** origin and destination of movement between buildings and districts

- **Mobility and students:** the relationship of mobility to student demographic characteristics and student achievement

Additional data

- **Appendix.** Additional detailed data on student mobility for individual Dayton Area districts, buildings, and charter schools can be found in the appendix of this report.

- **Online spreadsheets.** Excel spreadsheets with mobility data for every public district, building, and charter school in Ohio can be found at: www.researchpartners.org.

- **Profile reports for other urban areas.** Profile reports for the Cleveland, Columbus, Cincinnati, and Toledo areas are available at: www.researchpartners.org.

2.0 The Dayton Area

The Dayton Area, as defined for the student mobility research, is the geographic area that includes all public school districts and physical public charter schools within approximately 30-miles of the central district, Dayton Public Schools (Map 1; Table 1). Portions of the analysis also include students within the Dayton Area who attend e-charter schools.

For purposes of data analysis, the 43 districts are divided into:

- **Ring 1**: districts adjacent to DPS and/or within Montgomery County
- **Ring 2**: the remainder of the districts, which are farther from the DPS district

Most of the analysis in this report is focused on the central urban district and the Ring 1 districts; however data about all districts in the Dayton Area can be found in the appendix and in on-line spreadsheets at www.researchpartners.org.

Map 1. School districts in the Dayton Area
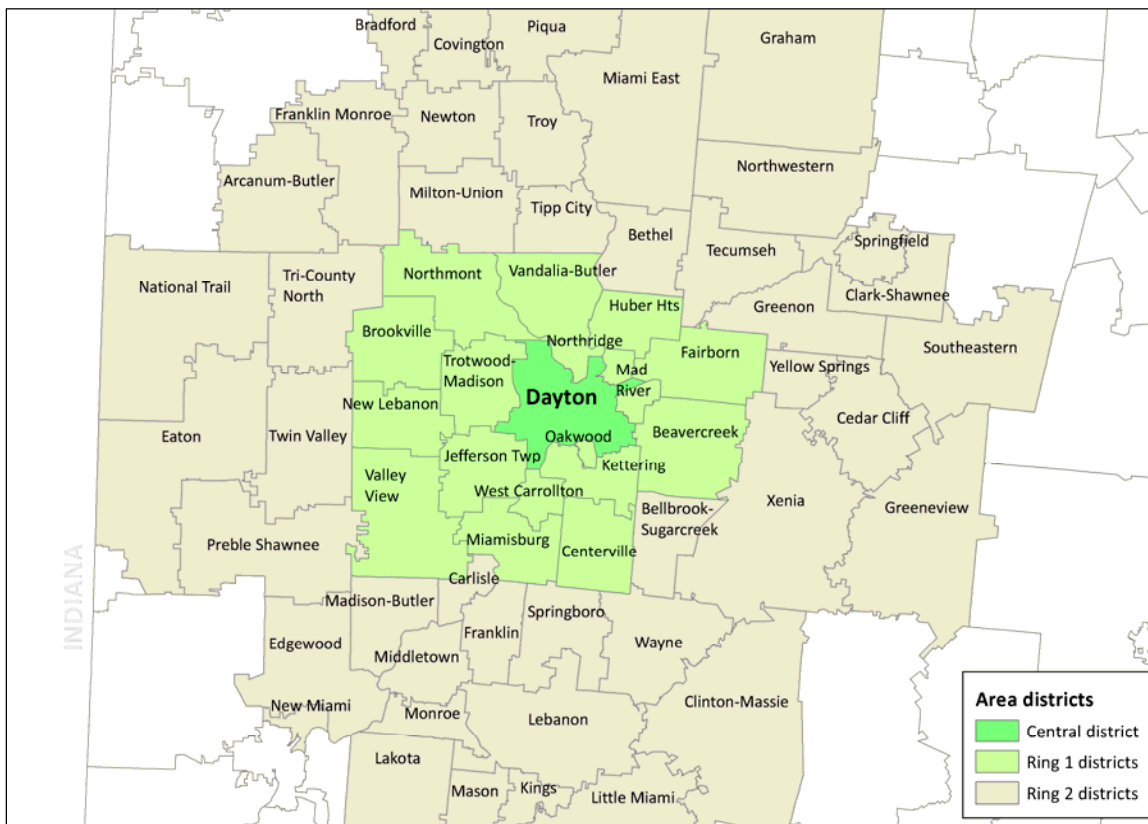
Note: In the maps of this report, district outlines are based on U.S. Census TIGER files.

Table 1. Number of public districts and school buildings in the Dayton Area, school year 2010–2011

	Public districts	Buildings in public districts	Public charter schools
Dayton Public Schools (DPS)	1	31	25
Ring 1 (districts within same county or adjacent to DPS)	17	109	5
Ring 2 (other districts within 30 miles of DPS)	43	215	9

Note: See Section 1 for types of schools included and excluded

2.1   Dayton Area schools at a glance

Dayton Public Schools: student characteristics

DPS is the tenth largest district in Ohio and had a 31% loss in enrollment over ten years (Table 2). In school year 2010-11, nearly three-quarters of DPS students were a minority race or ethnicity, including 67.1% black, 3.2% Hispanic, and 0.3% Asian students. Nine of ten students were economically disadvantaged (eligible for Free and Reduced Price Lunch Program); 1.2% were immigrants; 3.2% had limited English proficiency (LEP); and 20% had a disability. Of the more than 1,000 homeless students in Dayton Area districts in school year 2010, 36% were enrolled in DPS.

Among children ages 5–17 living within the DPS district boundaries, 6,877 (25.9%) lived in a different house than they did one year prior. About 1 in 5 children residing within the district and enrolled in grades 1–12 were enrolled in a private school. (American Community Survey 2010)

Other Dayton Area districts: student characteristics

The following are characteristics of the 43 Ring 1 and Ring 2 districts (excluding DPS) in the Dayton Area for school year 2010-2011 (Table 2 and Appendix):

- Eleven districts had economic disadvantage rates above 50% (Trotwood-Madison, New Miami, Northridge, Springfield City, Middletown, West Carrollton, Xenia Community, Piqua, Mad River, Fairborn, and Bradford).

- No districts had LEP rates above 5%.

- Only in Trotwood-Madison and Jefferson Township did minority students make up more than half of the student population.

- Fairborn had the second largest number of homeless students (176) after DPS.

Table 2. Dayton Area: Student characteristics, school year 2010–2011

School district	Enrollment (1)	Enrollment change since SY 2001 (%)	Economic disadvantage (%)	Minority (%)	Limited English Prof. (%)	Homeless
All districts in Dayton Area	203,134	-0.3	36.5	21.5	1.7	1,174
All Ring 1 districts	79,729	-10.1	44.7	31.4	1.8	696
Dayton	14,174	-31.1	92.5	74.8	3.2	419
Centerville	8,035	+10.1	13.7	18.9	1.7	-
Beavercreek	7,571	+15.8	13.2	15.9	2.4	-
Kettering	7,123	-5.9	38.6	12.2	1.6	15
Huber Hts.	6,178	-8.0	39.5	34.7	3.1	-
Northmont	5,377	-3.7	29.0	26.1	1.4	-
Miamisburg	5,338	+10.4	36.0	15.1	1.0	30
Fairborn	4,264	-21.9	51.1	21.8	1.1	176
West Carrollton	3,726	-1.5	54.5	23.7	4.9	14
Mad River	3,461	-9.8	51.9	21.7	0.8	-
Vandalia-Butler	3,206	-4.4	28.8	13.4	0.7	-
Trotwood-Madison	2,657	-26.9	81.9	92.1	0.0	42
Oakwood	2,075	+8.5	<5.0	7.2	0.0	-
Valley View	1,873	-2.9	17.2	<5.0	0.0	-
Northridge	1,627	-18.9	77.9	25.9	0.0	-
Brookville	1,465	-7.0	25.2	<5.0	0.0	-
New Lebanon	1,160	-15.0	48.8	<5.0	0.0	-
Jefferson Township	419	-39.2	5.3	85.8	0.0	-
All Ring 2 districts	123,405	+7.2	31.2	15.0	1.7	478
Dayton Area physical charter schools	8,459	-	83.1	82.8	-	-
Dayton Area students in e-charters	3,831	-	61.2	33.9	-	-

Source: Ohio Department of Education   Note: (1) For e-charters, enrollment is October 1 enrollment of students residing in Dayton Area districts; for all other districts, figure is average daily enrollment.

Dayton Area districts: school performance designations

ODE assigns annual report card ratings to school buildings and districts based on student performance and progress. In this report, rating letters of A+ to F are used to represent the six-level state performance designation system for school districts and buildings (Map 2 legend).

- Among the 60 Dayton Area districts, 42 had the two highest designations (Excellent or Excellent with Distinction) for school year 2010–2011. One district (Jefferson Township) had the second lowest designation of Academic Watch, while no districts had the lowest designation of Academic Emergency.

- DPS had a rating of Continuous Improvement, as did 8 of the other 15 Major Urban school districts (see Table i) in Ohio. Only Springfield City and Cincinnati City were more highly rated.

- Of the 31 DPS school buildings in operation, none had the highest state report card designation, while one (Valerie PreK–8 School) had the second highest designation. Seventeen had the two lowest designations.

Map 2. Dayton Area districts: ODE report card designations, school year 2010–2011
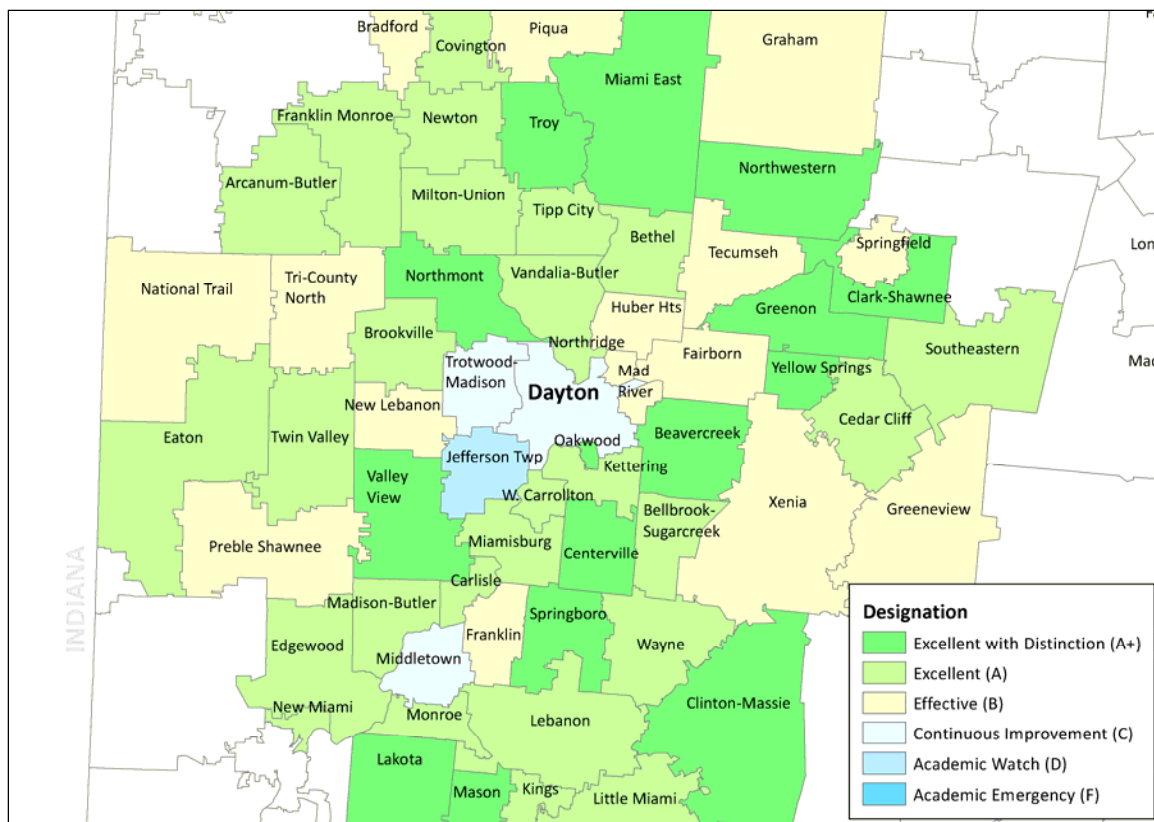
Source: Ohio Department of Education

Voucher holders

The Ohio Educational Choice Scholarship Program (EdChoice) provides students from underperforming public schools with the opportunity to attend participating private schools. Students currently attending—or who will be assigned to—a public school in their resident district that has been rated in Academic Emergency or Academic Watch for two of the past three years are eligible to apply. Students currently attending a charter school whose home school is an eligible school are also eligible.

In school year 2010-2011, there were nearly 2,400 voucher holders whose district of residence was a Dayton Area district. The districts of residence of these voucher holders were:

- Dayton—1,668
- Springfield—473
- Middletown—110
- Jefferson Township—64
- Trotwood-Madison—32
- Preble Shawnee—< 10

Vouchers were used at 36 Dayton Area private schools (Table 3). These figures were prior to adoption of the state 2011-2012 budget, which tripled the number of vouchers available to Ohio students.

Table 3. School of attendance of Dayton Area EdChoice voucher holders, school year 2010–2011

School of attendance of voucher holders	Number of vouchers	School of attendance of voucher holders	Number of vouchers
Mother Maria Anna Brunner Catholic	250	Nightingale Montessori Inc.	32
Mary, Queen of Peace, Homewood Campus	200	Archbishop Alter	30
Catholic Central Elementary	156	St Albert The Great	29
East Dayton Christian	150	Salem Christian Academy, LLC	28
Immaculate Conception	134	Gloria Dei Montessori	22
St Anthony	121	St Charles Borromeo	14
Emmanuel Christian Academy	120	St Peter	14
St Helen	104	Ridgewood School, The	13
Our Lady Of Rosary	102	Risen Christ Lutheran School	13
Holy Angels	101	Guiding Shepherd Christian School	< 10
Chaminade-Julienne	92	Bethlehem Lutheran School	< 10
Ascension	80	Dayton Islamic School, Inc	< 10
Carroll	79	Xenia Christian Elementary School	< 10
Dayton Christian School	78	Xenia Christian High School	< 10
Springfield Christian	61	Troy Christian Elementary School	< 10
Catholic Central Junior/Senior High School	53	Troy Christian High School	< 10
Spring Valley Academy	42	Bishop Leibold E And W Campus	< 10
Mulligan Stew Academy	36	Incarnation	< 10

Source: Ohio Department of Education

3.0 Magnitude of mobility

3.1 Section overview and key concepts

This section of the report examines how many students change schools, both during the school year and between school years. The school year is defined as the period from October 1 (the date that districts report enrollment to ODE) and May 15. Promotional moves (elementary to middle school; middle school to high school) are not included in these calculations. The magnitude of mobility is measured in two ways: (1) cohort stability and (2) churn. Both are calculated at the district and building levels.

This report provides an overview of the magnitude of mobility in Dayton Area schools. Additional cohort stability and churn data for districts, buildings, and charter schools can be found in the Appendix and in online spreadsheets www.researchpartners.org.

Cohort stability: measures retention of students over time

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

- **School District Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same district at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

- **School Building Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same building at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

Data notes

- A student who changed buildings within a district over two school years, but remained consistently enrolled in the district, is considered a stable student in the district-level stability calculation.

- Some building cohort instability is the result of changes in district programming that moves groups of students (e.g. LEP students) from one building to another.

- The analysis did not capture students who moved out of, and back into, a district or building during a school year (between October 1 and May 15)

Churn rate: measures movements into and out of a building or district

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

- **District churn rate:** The sum of all instances of district admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school year 2010-2011.

- **Building churn rate:** The sum of all instances of building admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school year 2010-2011.

Data notes

- A student's building enrollment Start Date that was fewer than 30 days following the Withdrawal Date from the same building was treated as continuous enrollment rather than an exit/reentry event.

- Because churn measures moves, individual students can be counted multiple times, each time they leave a district or building, and each time they enter a district or building, during a school year.

3.2   Student cohort stability

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

School district stability for Dayton Area districts grades K-7

In the least stable Dayton Area districts, about one of every three students in a school at the beginning of a school year is not in that same building at the end of a second school year. The most stable districts lose fewer than one in ten students.

Dayton Public Schools

- Of the DPS October 2009 grades K–7 cohort, 78.5% of the students remained in the district over two years, and 68.8% remained in the same DPS building over two-years (Map 3).

- Compared to the 15 districts designated as Major Urban by ODE, DPS had the 7th highest district K–7 stability rate (Table i). Canton City School was most stable, with a rate of 82.0%, while East Cleveland Schools was the least stable, with a rate of 69.1%

Other Dayton Area districts

- Trotwood-Madison and Mad River were the only Ring 1 districts with district stability rates for grades K–7 that were below 70%. Oakwood and Brookville were the most stable, with rates above 90%.

- Seven Dayton Area districts (Rings 1 and 2) had building stability rates for grades K–7 that were below 70% and which were lower than the rate for DPS.

- Among all Dayton Area districts with 50% or more economically disadvantaged students, Bradford had the highest district stability rate (89.5%) and the highest building stability rate (89.7%) for grades K–7.

Table 4. Dayton Area Ring 1 Districts: Two-year district and building stability for Grades K–7

Districts	District Rating	District stability		Building stability (1)	
		October 2009 district cohort	In same district May 2011 (%)	October 2009 building cohort	In same building May 2011 (%)
Oakwood	A+	1,297	93.0	1,001	91.9
Brookville	A	884	91.2	780	91.7
Valley View	A+	1,178	89.0	1,051	87.9
Centerville	A+	4,797	89.2	3,606	86.7
Vandalia-Butler	A	1,976	87.9	1,723	85.8
New Lebanon	B	681	86.0	612	85.5
Beavercreek	A+	4,601	87.5	4,010	85.4
Kettering	A	4,409	86.8	3,727	83.7
Northmont	A+	3,296	89.4	2,833	83.1
Fairborn	B	2,728	79.1	2,072	77.5
West Carrollton	A	2,233	77.8	1,647	77.2
Huber Hts	B	3,799	82.2	3,348	76.9
Miamisburg	A	3,616	83.4	2,431	71.5
Northridge	A	1,118	72.4	828	71.0
Mad River	B	2,230	73.4	1,698	70.0
Dayton	C	8,787	78.5	8,762	68.8
Trotwood-Madison	C	1,599	70.9	1,189	68.0
Jefferson Township	D	246	62.6	214	65.9

Source: CRP analysis of ODE enrollment records   (1) Excluded from the building cohort are students who would be expected to be promoted to a different building in year 2. .

Map 3. Dayton Area: Two-year building stability rate for grades K–7, October 2009–May 2011
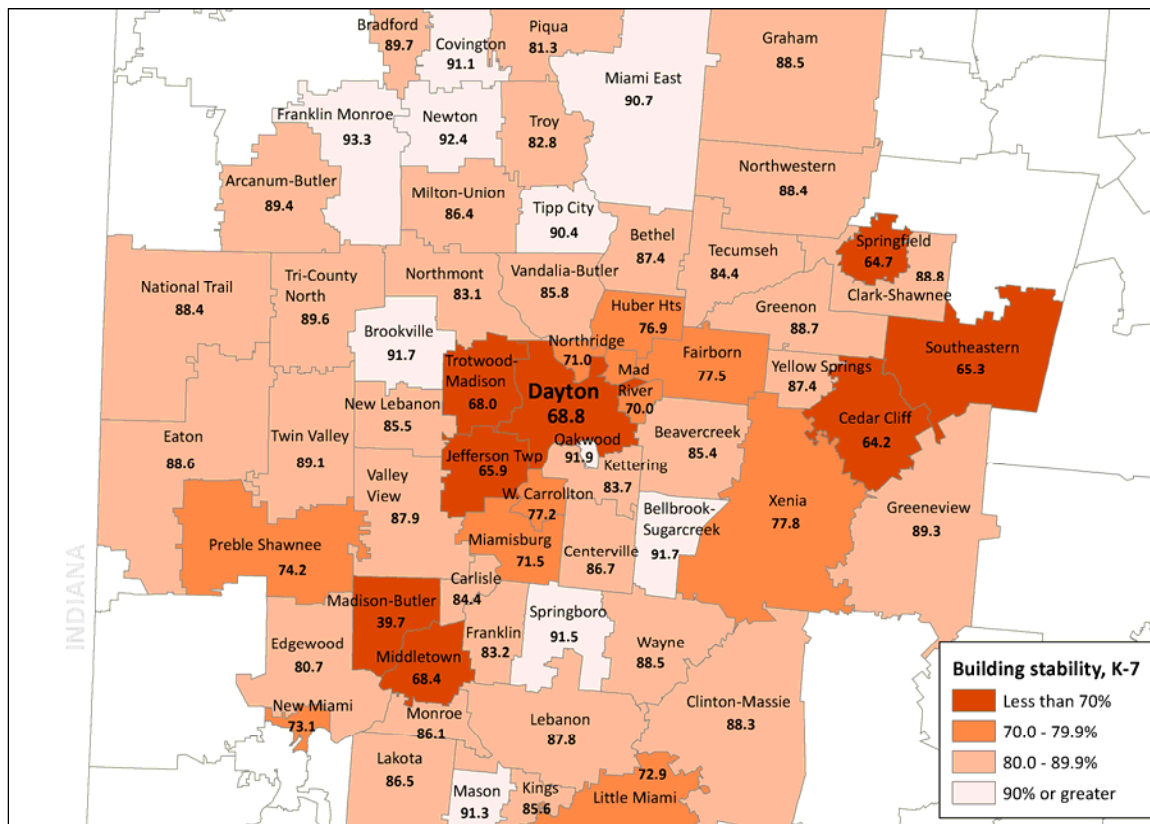
Source: CRP analysis of ODE enrollment records.

School district stability grades 8–11

Dayton Public Schools

- DPS district and building two-year stability rates (71.5% and 64.8%, respectively) for grades 8–11 were lower than corresponding stability rates for grades K–7 (Table 5).

- Compared to the 15 districts designated as Major Urban by ODE (Table i), DPS had the 8th highest district grades 8-11 stability rate. Canton City Schools were the most stable, with a rate of 80.2%, while Toledo City Schools were the least stable, with a rate of 60.1%.

Other Dayton Area districts

- The Ring 1 districts Northridge (68.2%), Jefferson Township (68.9%), and Trotwood-Madison (69.4%) had district stability rates for grades 8-11 that were 70% or lower. Centerville and Oakwood had grades 8-11 district stability rates of 90% or greater.

- Of the Ring 2 districts, New Miami (63.3%), Bradford (69.4%), and Springfield City (69.7%) had district stability rates for grades 8-11 that were 70% or lower. Newton, Mason, and Bellbook-Sugarcreek were the only Ring 2 districts with grades 8-11 stability rates above 90%.

Table 5. Dayton Area Ring 1 Districts: Two-year district and building stability for Grades 8–11

Districts	District rating	District stability		Building stability (1)	
		October 2009 district cohort	In same district May 2011 (%)	October 2009 building cohort	In same building May 2011 (%)
Centerville	A+	2,738	93.4	2,084	93.6
Oakwood	A+	677	91.7	513	91.6
Beavercreek	A+	2,496	88.2	1,928	88.0
Kettering	A	2,327	86.9	1,750	85.5
Vandalia-Butler	A	1,056	86.2	819	84.6
Valley View	A+	600	82.8	443	81.3
Northmont	A+	1,758	84.2	1,301	80.5
Mad River	B	1,120	78.4	871	78.5
Miamisburg	A	1,592	78.0	1,198	76.1
West Carrollton	A	1,094	77.0	835	76.0
Huber Hts	B	2,004	79.4	1,528	75.7
Brookville	A	451	79.8	340	74.7
New Lebanon	B	354	77.1	265	70.2
Fairborn	B	1,226	75.8	925	69.9
Jefferson Township	D	177	68.9	177	68.9
Northridge	A	471	68.2	370	65.1
Dayton	C	4,244	71.5	3,375	64.8
Trotwood-Madison	C	915	69.4	720	64.4

Source: CRP analysis of ODE enrollment records

(1) Excluded from the building cohort are students who would be expected to be promoted to a different building in year 2.

Map 4. Dayton Area: Two-year building stability rate for grades 8–11, October 2009–May 2011
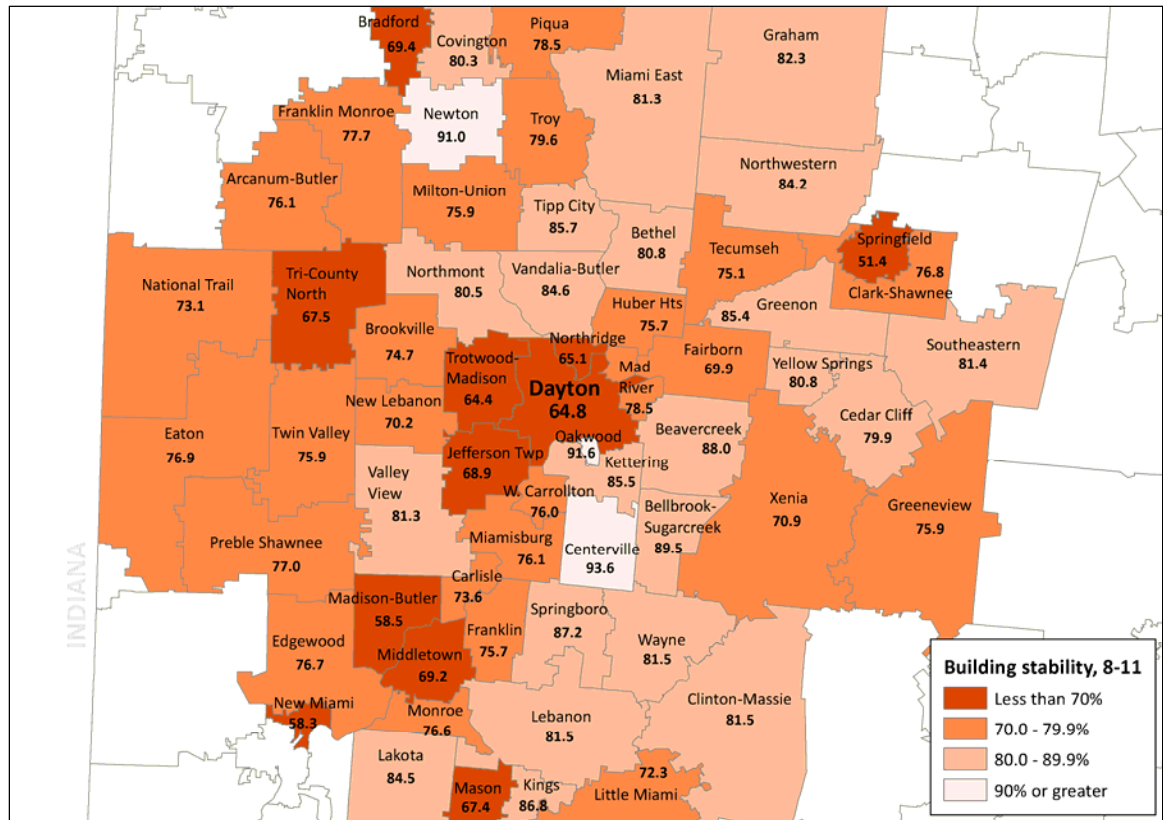
Source: CRP analysis of ODE enrollment records

Building stability for Dayton Public Schools

Many of the most stable DPS schools are specialty or magnet schools (Table 6). DPS buildings with the lowest stability rates lose from one-third to one-half of the students in a cohort over two school years (Table 7).

Table 6. DPS: 15 *most stable* school buildings, October 2009–May 2011

School building	Grade range	Rating	Oct. 2009 cohort	In same building, May 2011 (%)
Stivers School For The Arts	7-12	B	808	90.1
David H. Ponitz Career Technology Center	9-12	C	412	80.8
Rosa Parks School	PK-8	D	351	78.9
Charity Adams Earley Girls Academy	K-6	C	273	76.9
Valerie School	PK-8	A	453	74.6
Horace Mann School	PK-8	C	392	74.5
Eastmont Park School	PK-8	D	413	73.8
World of Wonder School	PK-8	C	379	73.4
Belle Haven School	PK-8	D	410	72.9
Ruskin School	PK-8	D	397	72.8
Kiser School	PK-8	F	416	72.4
Wogaman School	PK-8	C	436	72.2
Cleveland School	PK-8	D	419	69.7
Fairview School	PK-8	D	332	69.6
Edison School	PK-8	F	339	67.0

Source: CRP analysis of ODE enrollment records

Note: Table 6 is limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Table 7. DPS: 15 *least stable* school buildings, October 2009–May 2011

School building	Grade range	Rating	Oct. 2009 cohort	In same building, May 2011 (%)
Meadowdale School	PK-8	D	370	66.2
E. J. Brown School	PK-8	F	417	66.2
Westwood School	PK-8	F	392	66.1
Thurgood Marshall High School	9-12	C	508	65.7
Dayton Boys Preparatory Academy	PK-7	C	222	63.1
River's Edge Montessori School @ Franklin	K-8	D	387	63.0
Meadowdale High School	9-12	D	469	61.4
Wright Brothers School @ Grant	PK-8	C	333	61.0
Kemp School	PK-8	C	418	60.8
Louise Troy School	PK-8	D	401	60.6
Patterson/Kennedy School	PK-8	F	566	59.5
Gardendale Academy	K-12	NA	47	55.3
Dunbar High School	9-12	D	490	53.9
Belmont High School	9-12	D	718	47.4
Longfellow Alternative School	PK-12	NA	146	21.2

Source: CRP analysis of ODE enrollment records

Stability for charter schools

Stability rates for many of the public charter schools in the Dayton Area were low (Table 8). Only seven of the largest charter schools had stability rates of 70% or more, while 22 schools had rates of less than 50%. The least stable charter schools are primarily dropout recovery schools

Table 8. Dayton Area: Stability rates for charter schools, October 2009–May 2011

School (District location if other than DPS) *Dropout recovery school *E-charter school in italics*	Grade range	Rating	Econ. disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
Summit Academy Community School for Alternative Learners of Middletown (Middletown)	K-10	F	60.8	65	84.6
Springfield Academy Of Excellence (Springfield)	K-6	D	93.9	189	79.4
Summit Academy Transition High School Dayton	9-12	C	50.4	32	78.1
Dayton Early College Academy, Inc.	7-12	A+	78.4	339	77.6
Richard Allen Academy	1-8	C	82.9	60	76.7
Pathway School of Discovery	K-8	B	77.5	686	75.1
A.B. Graham Academy (Graham)	K-12	B	13.5	137	73.7
Richard Allen Academy II	K-8	C	77.3	424	68.4
Summit Academy-Xenia (Xenia)	K-10	D	60.5	41	68.3
Middletown Fitness & Prep Academy (Middletown)	K-8	C	78.3	253	67.2
North Dayton School Of Science & Discovery	K-8	C	>95.0	539	65.7
Trotwood Fitness & Prep. Academy (Trotwood-Madison)	K-8	C	93.7	288	65.6
Springfield Preparatory and Fitness Academy (Springfield)	K-8	A	90.4	164	64.6
Emerson Academy	K-8	B	>95.0	568	63.9
Dayton Leadership Academies-Dayton View Campus	K-8	C	>95.0	492	62.6
Ohio Connections Academy, Inc.	K-12	B	53.8	322	62.1
Summit Academy Dayton	K-12	F	77.0	58	62.1
Dayton Leadership Academies-Dayton Liberty Campus	K-8	C	>95.0	554	61.6
Alternative Education Academy	K-12	D	49.1	72	59.7
Ohio Virtual Academy	K-12	B	45.3	501	59.7
Richard Allen Academy III (Hamilton)	K-8	C	92.1	225	59.1
Ohio Connections Academy, Inc.	K-12	B	31.2	89	58.4
Ohio Virtual Academy	K-12	B	56.1	941	56.6
City Day Community School	K-8	C	>95.0	119	55.5
Alternative Education Academy	K-12	D	56.2	167	53.9
Klepinger Community School	K-8	C	50.8	334	52.7
Horizon Science Academy Dayton High School	K-12	C	63.5	217	51.6
Miami Valley Academies (West Carrollton)	K-12	D	87.8	152	49.3
Electronic Classroom Of Tomorrow	K-12	C	71.1	174	48.3
Virtual Community School Of Ohio	K-12	C	74.2	195	48.2
New Choices Community School	7-12	C	54.9	143	44.8
Electronic Classroom Of Tomorrow	K-12	C	77.7	993	42.7
Richard Allen Preparatory	K-12	NA	79.9	206	42.2
*Treca Digital Academy**	K-12	D	79.9	216	41.7
Dayton Technology Design High School*	9-12	F	87.3	98	39.8
*Greater Ohio Virtual School**	9-12	D	55.0	113	38.9
*Fairborn Digital Academy**	9-12	C	68.1	122	34.4
Horizon Science Academy-Dayton	K-12	C	>95.0	186	32.8
Mound Street Health Careers Acadmy*	9-12	C	83.9	123	26.0
The ISUS Institute of Health Care*	9-12	A	93.3	95	22.1
General Chappie James Leadership Academy (Jefferson Township)*	9-12	C	60.7	73	21.9
Tech Con Institute (Trotwood-Madison)*	K-12	F	94.4	58	20.7
Mound Street IT Careers Academy*	9-12	C	84.0	83	19.3

Table 8. Dayton Area: Stability rates for charter schools, October 2009–May 2011 (continued)

School (District location if other than DPS) *Dropout recovery school *E-charter school in italics*	Grade range	Rating	Econ. disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
The ISUS Institute of Construction Technology*	9-12	A	88.8	81	17.3
Miamisburg Secondary Academy (Miamisburg)*	7-12	C	<5.0	46	13.0
Life Skills Center-Middletown (Middletown)*	9-12	C	79.2	219	12.8
Life Skills Center-Springfield (Springfield)*	9-12	F	82.5	222	12.6
Mound Street Military Careers Academy*	9-12	C	87.6	61	11.5
Life Skills Center of Dayton*	9-12	F	89.6	289	11.1

Source: CRP analysis of ODE enrollment records

Note: Table 8 is limited to charter schools with average daily enrollment of at least 50 students in school year 2010-2011, and in operation during both school years 2009-2010 and 2010-2011.

3.3 Churn rate

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

District churn rate for Dayton Area districts

There were more than 12,000 admissions to and withdrawals from schools in the 18 Dayton Area Ring 1 districts during the 2010-2011 school year. For about half of the Ring 1 Dayton Area districts, churn in grades K-8 resulted in a net gain of students (more admissions than withdrawals) and about half in a net loss (more withdrawals than admissions), while the churn in grades 9-12 produced a net loss of students in all but one district.

Dayton Public Schools

- DPS had similar churn rates for grades K–8 (18.2%) and grades 9–12 (19.4%) (Table 9).

- Compared to the 15 districts designated as Major Urban by ODE, DPS had the 6th highest grades K-8 churn rate and the 5th highest grades 9-12 churn rate. Akron City Schools had the lowest grades K-8 churn rate (12.3%), while East Cleveland City Schools had the greatest churn, with a rate of 23.9% for grades K-8. Cincinnati City Schools had the lowest churn rate for grades 9-12 (15.2%), and Toledo City School had the highest grades 9-12 rate (31.1%).

Other Dayton Area Districts

- Trotwood-Madison and New Miami had churn rates of more than 20% for both grades K-8 and grades 9-12. Oakwood, Springboro Community, and Bellbrook-Sugarcreek had churn rates of less than 5% for grades K-8 and grades 9-12.

- In the Dayton Area (Rings 1 and 2), fewer than half of all districts (26 of 61) have a higher churn rate for grades K–8 than for grades 9–12 (see Maps 5 and 6).

Table 9. Dayton Area Ring 1 Districts: One-year churn rates, grades K-8 and 9-12, school year 2010–2011

District	Grades K–8				Grades 9–12				K-12 churn rate (%)
	Oct. 2010 enroll.	Admits	With-drawals	Churn rate (%)	Oct. 2010 enroll.	Admits	With-drawals	Churn rate (%)	
Oakwood	1,460	22	14	2.5	675	10	17	4.0	3.0
Centerville	5,453	185	173	6.6	2,822	57	72	4.6	5.9
Northmont	3,719	117	119	6.3	1,642	49	77	7.7	6.8
Beavercreek	5,224	223	187	7.8	2,451	57	75	5.4	7.1
Valley View	1,306	44	52	7.4	578	13	32	7.8	7.5
Brookville	1,007	34	52	8.5	406	16	23	9.6	8.8
Kettering	4,929	226	234	9.3	2,375	66	179	10.3	9.7
Vandalia-Butler	2,194	115	108	10.2	1,027	33	58	8.9	9.7
New Lebanon	775	46	54	12.9	320	13	23	11.3	12.4
Miamisburg	3,952	223	268	12.4	1,496	59	127	12.4	12.4
Huber Hts.	4,266	276	265	12.7	1,923	101	134	12.2	12.5
Fairborn	3,072	283	252	17.4	1,171	71	128	17.0	17.3
West Carrollton	2,558	228	214	17.3	1,028	76	103	17.4	17.3
Mad River	2,373	205	247	19.0	1,109	44	131	15.8	18.0
Dayton	9,935	966	842	18.2	4,115	269	531	19.4	18.6
Northridge	1,207	89	121	17.4	482	39	90	26.8	20.1
Trotwood-Madison	1,723	192	167	20.8	859	77	112	22.0	21.2
Jefferson Township	225	45	30	33.3	155	17	12	18.7	27.4
Total Ring 1	*55,378*	*3,519*	*3,399*		*24,634*	*1,067*	*1,924*		

Source: CRP analysis of ODE enrollment records   Note: Grade is based on a student's highest grade level during school year 2010–2011.

Less churn ↑

More churn ↓

Maps 5 and 6. Dayton Area: One-year district churn rate for grades K–8 and 9–12, school year 2010–2011
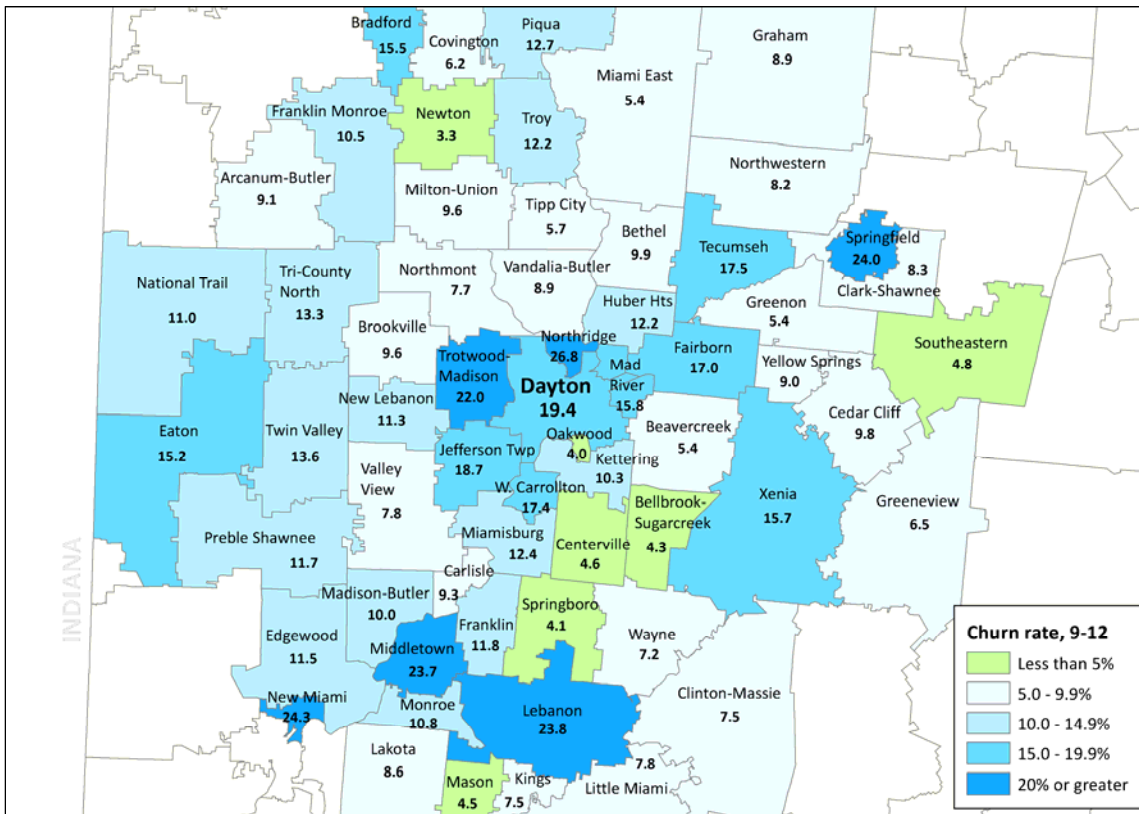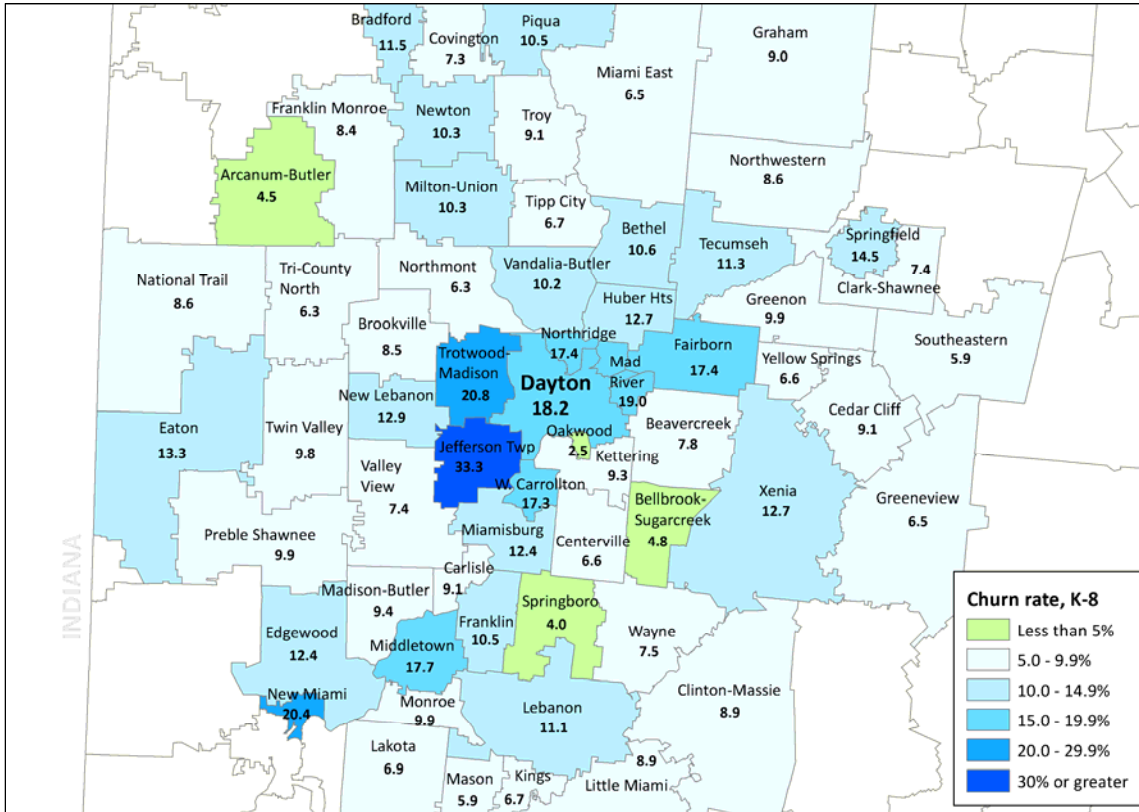
Source: CRP analysis of ODE enrollment records

Building churn rate for Dayton Public Schools

Many of the most stable DPS schools with the lowest churn rates are specialty or magnet schools (Table 10). DPS buildings with the highest churn rates have school year admissions and withdrawals equivalent to more than one-third of total enrollment (Table 11).

Table 10. DPS: 14 *lowest* building churn rates, school year 2010–2011

School building	Grade range	Rating	Oct. 2010 enroll.	Churn rate (%)
Stivers School For The Arts	7-12	B	924	3.9
David H. Ponitz Career Technology Center	9-12	C	627	7.3
Valerie School	PK-8	A	462	10.8
Horace Mann School	PK-8	C	446	17.0
Charity Adams Earley Girls Academy	K-6	C	314	17.5
Wogaman School	PK-8	C	471	19.7
Cleveland School	PK-8	D	477	20.3
Edison School	PK-8	F	435	20.7
World of Wonder School	PK-8	C	448	20.8
Thurgood Marshall High School	9-12	C	640	20.8
River's Edge Montessori School @ Franklin	K-8	D	422	22.0
Belle Haven School	PK-8	D	459	22.2
Ruskin School	PK-8	D	472	22.9
Kiser School	PK-8	F	497	25.2

Source: CRP analysis of ODE enrollment records

Note: Tables 10 and 11 are limited to school buildings with average daily enrollment of at least 50 students in school year 2010-2011.

Table 11. DPS: 15 *highest* building churn rates, school year 2010–2011

School building	Grade range	Rating	Oct. 2010 enroll.	Churn rate (%)
Rosa Parks School	PK-8	D	447	26.0
E. J. Brown School	PK-8	F	466	26.0
Eastmont Park School	PK-8	D	461	27.5
Kemp School	PK-8	C	425	28.2
Louise Troy School	PK-8	D	366	29.2
Westwood School	PK-8	F	433	30.5
Wright Brothers School @ Grant	PK-8	C	427	33.7
Belmont High School	9-12	D	890	34.7
Dunbar High School	9-12	D	569	34.8
Patterson/Kennedy School	PK-8	F	614	35.8
Dayton Boys Preparatory Academy	PK-7	C	231	37.2
Meadowdale School	PK-8	D	417	38.1
Fairview School	PK-8	D	347	42.4
Meadowdale High School	9-12	D	585	44.3
Gardendale Academy	K-12	NA	60	86.7
Longfellow Alternative School	PK-12	NA	188	293.6

Building churn rate for physical charter schools

Physical charter schools in the Dayton Area (Table 12) range from very high—primarily dropout recovery schools—to those with rates below 15%. With the exception of the dropout recovery schools, the range of physical charter school turnover rates is similar to that of DPS buildings.

Table 12. Dayton Area: Churn rates for physical charter schools, school year 2010–2011

School (District location if other than DPS) *Dropout recovery school	Grade range	Rating	Econ. disadv. (%)	Oct. 2010 enroll.	Churn rate
Summit Academy-Xenia (Xenia)	K-10	D	60.5	62	4.8
Richard Allen Preparatory	K-12	NA	79.9	230	5.7
Dayton Early College Academy, Inc.	7-12	A+	78.4	415	5.8
Richard Allen Academy II	K-8	C	77.3	459	6.5
Richard Allen Academy	1-8	C	82.9	121	6.6
Springfield Preparatory and Fitness Academy (Springfield)	K-8	A	90.4	161	11.8
Springfield Academy Of Excellence (Springfield)	K-6	D	93.9	226	11.9
Pathway School of Discovery	K-8	B	77.5	761	12.7
North Dayton School Of Science & Discovery	K-8	C	96.6	568	13.0
Richard Allen Academy III (Hamilton)	K-8	C	92.1	180	13.9
Summit Academy Dayton	K-12	F	77.0	82	14.6
Trotwood Fitness & Prep. Academy (Trotwood-Madison)	K-8	C	93.7	341	14.7
Summit Academy Community School for Alternative Learners of Middletown (Middletown)	K-10	F	60.8	92	15.2
Klepinger Community School	K-8	C	50.8	324	15.7
Horizon Science Academy-Dayton	K-12	C	98.7	161	16.1
Dayton Leadership Academies-Dayton Liberty Campus	K-8	C	100.0	495	17.4
Horizon Science Academy Dayton High School	K-12	C	63.5	261	20.7
Horizon Science Academy Dayton Downtown	K-12	D	96.5	130	20.8
Middletown Fitness & Prep Acad (Middletown)	K-8	C	78.3	287	20.9
Emerson Academy	K-8	B	96.0	662	23.4
A.B. Graham Academy (Graham)	K-12	B	13.5	160	23.8
Dayton Leadership Academies-Dayton View Campus	K-8	C	99.9	506	24.1
City Day Community School	K-8	C	98.5	171	26.3
Summit Academy Transition High School Dayton	9-12	C	50.4	48	27.1
Miami Valley Academies (West Carrollton)	K-12	D	87.8	177	41.2
Dayton Technology Design High School*	9-12	F	87.3	134	54.5
New Choices Community School	7-12	C	54.9	134	55.2
General Chappie James Leadership Academy (Jefferson	9-12	C	60.7	124	63.7
Tech Con Institute (Trotwood-Madison)*	K-12	F	94.4	69	66.7
Mound Street Military Careers Academy*	9-12	C	87.6	79	124.1
Mound Street IT Careers Academy*	9-12	C	84.0	94	134.0
Miamisburg Secondary Academy (Miamisburg)*	7-12	C	-	74	150.0
The ISUS Institute of Construction Technology*	9-12	A	88.8	62	164.5
Mound Street Health Careers Academy*	9-12	C	83.9	143	165.7
Life Skills Center-Springfield (Springfield)*	9-12	F	82.5	152	168.4
Life Skills Center-Middletown (Middletown)*	9-12	C	79.2	236	175.4
The ISUS Institute of Health Care*	9-12	A	93.3	73	197.3
Life Skills Center of Dayton*	9-12	F	89.6	276	227.2

Source: CRP analysis of ODE enrollment records

Note: Table 11 is limited to charter schools with average daily enrollment of at least 50 students in school year 2010-2011. Appendix includes number of admissions and withdrawals per school that contribute to churn rate.

4.0 Mobility patterns

4.1 Section overview and key concepts

This section of the report examines the patterns of student movement between school districts and buildings and between public districts and charter schools, as well as the characteristics of origin and destination schools. The analysis of mobility patterns includes: (1) district and building mobility patterns, (2) report card ratings of origin and destination schools, and (3) inter-district open enrollment analysis.

> *This report provides an overview of mobility patterns among Dayton Area schools. Additional mobility pattern data for districts, buildings, and charter schools can be found in the Appendix and online spreadsheets www.researchpartners.org.*

Mobility patterns: districts and buildings that exchange students

How many unique students did pairs of buildings or districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts and buildings?

- **District mobility patterns:** The number of unique students enrolled in two school districts, or a district and a charter school, at some point over two school years (2009-2010 and 2010-2011).
- **Building mobility patterns:** The number of unique students enrolled in two school buildings at some point over two school years (2009-2010 and 2010-2011), including buildings within the same district and buildings in different districts

Data notes

- The mobility patterns analysis includes all combinations of: public school districts and buildings, physical charter schools, and e-charter schools. Vocational schools are excluded. A small percentage of results from dual enrollment; however, most involve non-overlapping enrollment periods.
- A student is counted only once, even if they move between a pair of schools more than once.

Origin and destination ratings: report card rating of schools that exchange students

What is the performance rating of the destination school of mobile students, compared to that of the school of origin?

- **Origin and destination performance ratings:** The school year 2010-2011 state report card rating of the origin and destination schools for the most recent move of students who changed schools during a two school year period (2009-2010 and 2010-2011).

Data notes

- Statewide, 20% of students who withdraw from an Ohio public school have no enrollment destination information in EMIS the following October.

Inter-district open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

- **Open enrollment, incoming:** Number and percent of students attending a school in a district through open enrollment policy.
- **Open enrollment, outgoing:** Number and percent of public school students residing in a district, but attending a different district through open enrollment policy.

Data notes

- Open enrollment is the most common reason, but not the only reason, that a student may reside in one district, but attend another.

4.2   District mobility patterns

How many unique students did pairs of districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts?

District mobility patterns between Dayton Public Schools and other districts

Over two school years, the 61 public districts within the Dayton Area exchanged 14,559 students. The largest numbers of exchanges were between districts in close proximity to each other, but DPS also exchanged students with other Major Urban districts in Ohio (Table 13; Maps 7 and 8). Trotwood Madison was the only district to exchange more than 500 students with DPS over a two year period. Ten Ohio districts exchanged at least 100 students with DPS, including Columbus (111).

Table 13. Top 30 districts that exchanged students with DPS, October 2009–May 2011

District	Location	District rating	Econ. Disadv. (%)	Total students exchanged	Grades K–7		Grades 8–11	
					To DPS	From DPS	To DPS	From DPS
Trotwood-Madison	Ring 1	C	81.9	548	204	193	71	80
Huber Hts.	Ring 1	B	39.5	301	109	121	30	41
Northridge	Ring 1	A	77.9	246	89	92	28	37
Kettering	Ring 1	A	38.6	208	85	88	12	23
West Carrollton	Ring 1	A	54.5	201	69	79	22	31
Mad River	Ring 1	B	51.9	193	75	85	10	23
Fairborn	Ring 1	B	51.1	171	57	75	22	17
Northmont	Ring 1	A+	29.0	127	35	53	16	23
Columbus	Other Ohio	C	81.9	111	51	33	14	13
Springfield	Ring 2	B	76.3	110	34	39	13	24
Miamisburg	Ring 1	A	36.0	87	29	41	9	8
Jefferson Township	Ring 1	D	5.3	86	30	32	14	10
Xenia Community	Ring 2	B	54.3	85	35	28	12	10
Cincinnati	Other Ohio	B	69.7	67	22	23	13	9
Centerville	Ring 1	A+	13.7	64	17	31	6	10
Beavercreek	Ring 1	A+	13.2	62	31	17	3	11
Vandalia-Butler	Ring 1	A	28.8	57	18	24	13	2
Middletown	Ring 2	C	71.5	52	22	18	4	8
Troy	Ring 2	A+	40.4	34	15	12	5	2
Piqua	Ring 2	B	53.2	33	16	8	6	3
Tecumseh	Ring 2	B	48.4	28	10	13	1	4
Cleveland	Other Ohio	D	95.5	24	8	12	2	2
Toledo	Other Ohio	C	76.6	22	6	13	3	0
Sidney	Other Ohio	C	54.2	21	7	4	6	4
New Lebanon	Ring 1	B	48.8	20	7	12	1	0
Bellbrook-Sugarcreek	Ring 2	A	15.3	19	4	7	3	5
Wilmington	Other Ohio	A	51.5	19	1	17	1	0
Eaton Community	Ring 2	A	27.9	18	11	6	1	0
Hamilton (Butler County)	Other Ohio	C	69.2	17	7	2	3	5
Tipp City	Ring 2	A	18.3	16	9	4	1	2
Total top 30 districts				*3,047*	*1,113*	*1,182*	*345*	*407*

Source: CRP analysis of ODE enrollment records

Notes: Grade is the student's highest grade level during school year 2009–10. A student may have been enrolled in another district, charter school, or outside the Ohio public system between the periods of enrollment in the districts paired above. For example, a student who moves from DPS to Trotwood Madison to Huber Heights schools would be included in two pairs: DPS/Trotwood-Madison and DPS/Huber Heights. Totals include only those students for whom grade level is available for school year 2009–10.

Maps 7 and 8. Students moving between DPS and another district in the Dayton Area, October 2009–May 2011

Into DPS

District	Value
Bradford	1
Covington	2
Piqua	22
Graham	4
Miami East	1
Franklin Monroe	
Newton	5
Troy	20
Northwestern	5
Arcanum-Butler	3
Milton-Union	6
Tipp City	10
Bethel	8
Tecumseh	11
Springfield	47
4	
National Trail	
Tri-County North	1
Northmont	51
Vandalia-Butler	31
Huber Hts	139
Greenon	7
Clark-Shawnee	
Brookville	5
Northridge	117
Fairborn	79
Southeastern	
Trotwood-Madison	275
Dayton	
Mad River	85
Yellow Springs	
New Lebanon	8
Oakwood	2
Beavercreek	34
Cedar Cliff	2
Eaton	12
Twin Valley	1
Jefferson Twp	44
Kettering	97
Xenia	47
Greeneview	3
Valley View	4
W. Carrollton	91
Bellbrook-Sugarcreek	7
Preble Shawnee	
Miamisburg	38
Centerville	23
Carlisle	
Madison-Butler	2
Springboro	
Franklin	3
Wayne	
Edgewood	8
Middletown	26
New Miami	
Monroe	
Lebanon	6
Clinton-Massie	2
Lakota	8
Mason	
Kings	
Little Miami	

Out of DPS

District	Value
Bradford	1
Covington	2
Piqua	11
Graham	6
Miami East	1
Franklin Monroe	
Newton	1
Troy	14
Northwestern	4
Arcanum-Butler	2
Milton-Union	7
Tipp City	6
Bethel	5
Tecumseh	17
Springfield	63
2	
National Trail	
Tri-County North	3
Northmont	76
Vandalia-Butler	26
Huber Hts	162
Greenon	4
Clark-Shawnee	
Brookville	4
Northridge	129
Fairborn	92
Southeastern	1
Trotwood-Madison	273
Dayton	
Mad River	108
Yellow Springs	3
New Lebanon	12
Oakwood	6
Beavercreek	28
Cedar Cliff	1
Eaton	6
Twin Valley	3
Jefferson Twp	42
Kettering	111
Xenia	38
Greeneview	2
Valley View	1
W. Carrollton	110
Bellbrook-Sugarcreek	12
Preble Shawnee	2
Miamisburg	49
Centerville	41
Carlisle	3
Madison-Butler	2
Springboro	6
Franklin	9
Wayne	2
Edgewood	1
Middletown	26
New Miami	1
Monroe	
Lebanon	9
Clinton-Massie	1
Lakota	3
Mason	
Kings	
Little Miami	

Source: CRP analysis of ODE enrollment records

District mobility patterns among Dayton Area districts

Over two years, there were 6,024 student exchanges among the 25 largest Dayton Area districts (excluding DPS) (Table 14). The Kettering, Huber Heights, Middletown, and Franklin districts had the most inter-district exchanges. Districts that exchanged more than 150 students were Middletown and Edgewood, Miamisburg and West Carrollton, Kettering and Centerville, Little Miami and Lebanon, and Piqua and Troy.

Table 14. Dayton Area largest 25 districts (excluding DPS): Students exchanged between pairs of districts, October 2009–May 2011

ORIGIN DISTRICT \ DESTINATION DISTRICT	Beavercreek	Centerville	Edgewood	Fairborn	Franklin City	Huber Hts.	Kettering	Kings	Lakota-Butler	Lebanon	Little Miami	Mad River	Mason	Miamisburg	Middletown	Northmont	Piqua	Springboro	Springfield	Tecumseh	Trotwood-Madison	Troy	Vandalia-Butler	West Carrollton	Xenia
Beavercreek		23	-	34	1	28	36	-	9	4	-	21	1	10	7	6	-	14	8	7	2	5	9	7	42
Centerville	9		-	7	-	9	77	2	3	6	-	7	5	24	-	2	2	18	2	-	4	2	7	23	12
Edgewood	-	3		-	10	-	1	-	20	5	4	-	-	4	92	-	-	3	-	-	-	-	-	3	2
Fairborn	30	13	-		3	58	34	-	4	3	1	42	2	12	2	6	3	1	28	34	4	3	13	10	69
Franklin City	1	2	17	-		4	10	3	2	34	5	2	1	26	69	-	2	11	1	-	-	1	5	6	7
Huber Hts.	22	18	2	46	3		40	-	4	1	-	51	-	15	3	38	6	6	18	35	30	14	36	14	15
Kettering	26	83	6	26	4	29		1	3	3	-	33	-	42	9	13	2	12	6	15	9	10	17	55	15
Kings	-	2	2	-	2	-	2		11	55	33	-	25	-	15	-	-	4	3	-	-	-	-	4	-
Lakota-Butler	5	4	38	1	2	-	-	21		28	11	-	72	7	43	2	-	6	-	1	2	-	-	4	2
Lebanon	4	7	5	-	56	1	4	58	23		51	1	53	7	52	2	-	24	-	1	2	-	-	7	4
Little Miami	-	-	2	-	5	-	2	63	15	101		-	23	1	5	3	-	9	-	-	-	-	-	-	-
Mad River	30	4	-	56	-	73	30	-	2	1	1		1	13	1	7	-	2	10	13	4	3	12	14	13
Mason	3	5	1	1	2	1	2	15	41	25	12	-		-	6	-	-	4	-	-	-	-	-	2	-
Miamisburg	11	38	6	12	38	16	49	1	4	5	3	9	4		20	13	6	31	7	2	11	6	1	90	13
Middletown	5	7	89	6	71	6	9	14	53	52	14	7	7	24		1	2	9	-	2	6	5	1	10	3
Northmont	5	7	-	6	5	31	23	-	5	-	1	8	-	16	4		-	1	3	4	16	10	34	8	1
Piqua	1	3	1	2	1	7	4	-	-	-	3	6	-	1	1	6		-	4	2	4	77	-	2	1
Springboro	2	22	-	2	17	7	30	5	3	27	1	3	1	17	13	1	2		-	2	-	-	-	6	-
Springfield	14	1	-	24	-	25	4	-	-	4	1	5	-	3	2	3	3	3		43	7	4	4	-	17
Tecumseh	8	2	-	27	-	33	21	-	-	1	-	10	-	8	4	4	1	1	50		-	10	5	3	11
Trotwood-Madison	3	5	-	8	-	28	14	-	1	-	2	11	-	14	5	39	1	3	7	1		8	7	21	10
Troy	2	3	-	5	-	14	17	-	1	2	-	12	-	3	7	7	74	-	7	10	2		13	2	1
Vandalia-Butler	3	4	-	5	1	34	6	1	-	-	-	3	-	9	2	29	1	1	3	11	7	13		7	5
West Carrollton	6	23	2	19	6	12	52	-	5	3	-	11	2	80	15	12	1	7	2	4	21	5	11		7
Xenia	35	7	-	88	3	10	12	-	-	4	2	11	1	10	5	3	1	4	29	7	10	1	6	10	

Source: CRP analysis of ODE enrollment records

District mobility patterns between Dayton Public Schools and charter schools

Over two years, the 30 largest charter schools exchanged a total of 2,643 students with DPS schools (Table 15). Six charter schools exchanged at least 150 students with DPS, led by eCOT (288) and Dayton Leadership Academies-Dayton View (203). For grades K-7, more students came to DPS from charter schools (794) than went to charter schools from DPS (639). For grades 8-11, approximately two students went to a charter school from DPS (794) for every one student that came to DPS (416) from a charter school.

Table 15. Top 30 charter schools in students exchanged with DPS, October 2009–May 2011

Charter school *E-charter in italics* *Dropout recovery school	Rating	Econ. disadv. (%)	Total students exchanged	Grades K–7		Grades 8–11	
				To DPS	From DPS	To DPS	From DPS
Electronic Classroom Of Tomorrow	C	76.9	288	37	62	42	147
Dayton Leadership Academies-Dayton View	C	95.5	203	110	43	50	0
Life Skills Center of Dayton*	F	89.6	184	0	0	16	168
Emerson Academy	B	95.5	165	80	64	21	0
Dayton Leadership Academies-Dayton Liberty	C	95.5	157	98	27	32	0
North Dayton School Of Science & Discovery	C	95.5	151	66	56	29	0
Horizon Science Academy-Dayton	C	95.5	108	58	50	0	0
Mound Street Health Careers Academy*	C	83.9	98	0	0	8	90
Horizon Science Academy Dayton High School	C	63.5	97	17	8	42	30
Ohio Virtual Academy	B	55.3	96	26	37	15	18
Dayton Early College Academy, Inc.	A+	78.4	89	6	52	18	13
New Choices Community School	C	54.9	83	0	1	26	56
City Day Community School	C	95.5	76	40	23	12	1
Klepinger Community School	C	50.8	74	42	32	0	0
Dayton Technology Design High School*	F	87.3	72	0	0	8	64
Pathway School of Discovery	B	77.5	67	31	30	6	0
Mound Street IT Careers Academy*	C	84	65	0	0	10	55
Richard Allen Academy II	C	77.3	62	33	29	0	0
New City School	NA	-	62	48	6	8	0
Trotwood Fitness & Preparatory Academy	C	93.7	59	21	33	5	0
Academy Of Dayton	NA	-	49	45	0	3	1
Richard Allen Academy	C	82.9	48	4	11	29	4
Mound Street Military Careers Academy*	C	87.6	45	0	1	2	42
The ISUS Institute of Health Care*	A	93.3	40	0	0	5	35
General Chappie James Leadership Academy*	C	60.7	40	0	0	6	34
Horizon Science Academy Dayton Downtown	D	95.5	36	7	29	0	0
Miami Valley Academies	D	87.8	35	11	17	2	5
Ohio Connections Academy, Inc.	B	54.1	34	12	14	5	3
Virtual Community School Of Ohio	C	79.2	32	2	13	8	9
Tech Con Institute*	F	94.4	28	0	1	8	19
Total top 30 charter schools			**2,643**	**794**	**639**	**416**	**794**

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2009–2010.

Dayton Public Schools mobility patterns summary: other districts and charters

Over two school years, 5,164 unique students transferred between DPS and another Ohio district or charter school (Table 16). Of these:

- 55% moved to or from another district
- 37% moved to or from a physical charter school
- 8% moved to or from an e-charter school

The largest number of moves to and from other districts or charters occurred among 9th grade students (593), followed by 8th grade (473), 2nd grade (472), and 1st grade (453).

Table 16. Students moving into or out of DPS by grade and origin/destination type, Oct. 2009–May 2011

Grade	Another public district		Physical charter school		E-charter school	
	To DPS	From DPS	To DPS	From DPS	To DPS	From DPS
All grades	1,167	1,684	811	1,100	114	288
K	131	171	62	61	1	10
1	133	181	74	54	6	5
2	133	187	65	71	8	8
3	116	153	63	53	6	10
4	95	142	64	61	10	14
5	89	118	78	56	9	18
6	86	140	98	73	6	22
7	82	111	49	51	13	25
8	58	124	157	66	13	55
9	90	128	46	241	21	67
10	55	78	24	146	6	23
11	20	49	9	80	2	17
12	5	14	5	48	1	7
NA	74	88	17	39	12	7

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2009–2010; NA- grade level not available.

4.3   Building mobility patterns

How many unique students did pairs of buildings have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these buildings?

Exchanges between Dayton Public Schools buildings and buildings in other districts

About half of DPS inter-district building moves occurred at the elementary school level and half at the high school level. DPS Belmont and Dunbar high schools exchanged a total of at least 40 students each with high schools in the Fairborn, Huber Heights, Kettering, Mad River, Northmont, Northridge, Springfield City, Trotwood-Madison, and West Carrollton districts. Edison PreK–8 School was the only DPS elementary school to exchange 40 or more students with elementary schools in other districts—those being the Northridge and Trotwood-Madison districts (Table 17).

Table 17. DPS and other districts: 30 building pairs that exchanged the most students, October 2009–May 2011

DPS school building (X)	Rating Bldg. X	School building in another district (Y)	District of Building Y	Rating Bldg. Y	Students exchanged
Meadowdale High	D	Trotwood-Madison High	Trotwood-Madison	C	44
Dunbar High	D	Trotwood-Madison High	Trotwood-Madison	C	34
Belmont High	D	Trotwood-Madison High	Trotwood-Madison	C	31
Belmont High	D	Northridge High	Northridge	B	28
Belmont High	D	Wayne High	Huber Hts.	B	26
Meadowdale PreK-8	D	Westbrooke Village Elementary	Trotwood-Madison	C	23
Thurgood Marshall High	C	Trotwood-Madison High	Trotwood-Madison	C	22
Belmont High	D	Fairborn High	Fairborn	A	21
Belmont High	D	West Carrollton High	West Carrollton	A	17
Belmont High	D	Stebbins High	Mad River	B	16
Edison PreK-8	F	Madison Park Elementary	Trotwood-Madison	C	14
Edison PreK-8	F	Morrison Elementary	Northridge	C	14
Wright Brothers PreK-8	C	Fairborn Primary	Fairborn	A	14
Belle Haven PreK-8	D	Westbrooke Village Elementary	Trotwood-Madison	C	13
Edison PreK-8	F	Trotwood-Madison Middle	Trotwood-Madison	C	13
Belmont High	D	Kettering Fairmont High	Kettering	A	13
Belle Haven PreK-8	D	Trotwood-Madison Middle	Trotwood-Madison	C	12
Belmont High	D	Northmont High	Northmont	A	12
E. J. Brown PreK-8	F	Trotwood-Madison Middle	Trotwood-Madison	C	11
Wright Brothers PreK-8	C	Morrison Elementary	Northridge	C	11
Wogaman PreK-8	C	Westbrooke Village Elementary	Trotwood-Madison	C	11
David H. Ponitz Career Technology Center	C	Trotwood-Madison High	Trotwood-Madison	C	11
Belmont High	D	Springfield High	Springfield	C	10
Patterson/Kennedy PreK-8	F	Westbrooke Village Elementary	Trotwood-Madison	C	10
World of Wonder PreK-8	C	Westbrooke Village Elementary	Trotwood-Madison	C	10
Horace Mann PreK-8	C	C F Holliday Elementary	West Carrollton	C	10
Patterson/Kennedy PreK-8	F	Monticello Elementary	Huber Hts.	A	10
Westwood PreK-8	F	Morrison Elementary	Northridge	C	10
Meadowdale PreK-8	D	Morrison Elementary	Northridge	C	10
Patterson/Kennedy PreK-8	F	Grafton Kennedy Elementary	Northridge	C	10

Source: CRP analysis of ODE enrollment records

Exchanges between Dayton Public Schools buildings and charter schools

Over two years, the DPS buildings and the charter schools that exchanged the most students exchanged a total of 840 students (Table 18). Of the exchanges in Table 18, 46% involved exchanges between a DPS high school and a dropout recovery charter school, and 23% were exchanges with e-charter schools. Life Skills Center of Dayton exchanged 204 students with five DPS high schools.

Table 18. DPS and charter schools: 30 school pairs that exchanged the most students, October 2009–May 2011 October 2009–May 2011

DPS school building (X)	Rating Bldg. X	Charter school (Y) *E-charter in italics* *Dropout recovery	Rating Bldg. Y	Students exchanged
Belmont High School	D	*Electronic Classroom Of Tomorrow*	C	79
Belmont High School	D	Life Skills Center of Dayton*	F	71
Meadowdale High School	D	Life Skills Center of Dayton*	F	50
Belmont High School	D	New Choices Community School	C	47
Belmont High School	D	Mound Street Health Careers Academy*	C	37
Dunbar High School	D	Mound Street Health Careers Academy*	C	34
Dunbar High School	D	Life Skills Center of Dayton*	F	33
Belmont High School	D	Dayton Technology Design High School*	F	32
Dunbar High School	D	*Electronic Classroom Of Tomorrow*	C	31
Patterson/Kennedy PreK-8 School	F	Emerson Academy	B	27
Thurgood Marshall High School	C	Life Skills Center of Dayton*	F	26
Longfellow Alternative School	NA	Life Skills Center of Dayton*	F	24
Dunbar High School	D	Mound Street IT Careers Academy*	C	23
Longfellow Alternative School	NA	*Electronic Classroom Of Tomorrow*	C	23
Belmont High School	D	Horizon Science Academy Dayton High School	C	21
Edison PreK-8 School	F	Dayton Leadership Academies-Dayton View	C	21
David H. Ponitz Career Technology Center	C	Richard Allen Academy	C	21
Meadowdale PreK-8 School	D	North Dayton School Of Science & Discovery	C	21
Belmont High School	D	The ISUS Institute of Health Care*	A	20
Meadowdale High School	D	*Electronic Classroom Of Tomorrow*	C	20
E. J. Brown PreK-8 School	F	Dayton Leadership Academies-Dayton View	C	19
Kiser PreK-8 School	F	Pathway School of Discovery	B	19
Wright Brothers PreK-8 School @ Grant	C	*Electronic Classroom Of Tomorrow*	C	19
Wogaman PreK-8 School	C	Dayton Leadership Academies-Dayton Liberty	C	18
Belmont High School	D	Mound Street IT Careers Academy*	C	18
Belmont High School	D	*Ohio Virtual Academy*	B	18
Belle Haven PreK-8 School	D	North Dayton School Of Science & Discovery	C	17
Kiser PreK-8 School	F	Horizon Science Academy-Dayton	C	17
Dunbar High School	D	New Choices Community School	C	17
Meadowdale High School	D	Mound Street Health Careers Academy*	C	17
				840

Source: CRP analysis of ODE enrollment records

Exchanges between Dayton Public Schools buildings

Over the two school years, 1,513 DPS students made a non-promotional change of school within the DPS district. Of the exchanges in Table 19, Longfellow Alternative was the most frequent receiving school, followed by Meadowdale High and Thurgood Marshall High. The most frequent sending schools were Longfellow Alternative, Belmont High, and Dunbar High.

Table 19. DPS: 30 building pairs that exchanged the most students, October 2009–May 2011

DPS building (X)	Rating of Building X	DPS building (Y)	Rating of Building Y	Students exchanged
Belmont High	D	Longfellow Alternative	NA	107
Longfellow Alternative	NA	Meadowdale High	D	69
Longfellow Alternative	NA	Thurgood Marshall High	C	62
Dunbar High	D	Longfellow Alternative	NA	61
Belmont High	D	Meadowdale High	D	45
Longfellow Alternative	NA	Patterson/Kennedy PreK-8	F	45
Belmont High	D	Dunbar High	D	41
Longfellow Alternative	NA	Westwood PreK-8	F	40
E. J. Brown PreK-8	F	Longfellow Alternative	NA	37
Longfellow Alternative	NA	Louise Troy PreK-8	D	37
Belmont High	D	David H. Ponitz Career Tech. Center	C	34
Longfellow Alternative	NA	Rosa Parks PreK-8	D	30
Longfellow Alternative	NA	Wogaman PreK-8	C	29
Longfellow Alternative	NA	World of Wonder PreK-8	C	29
Belmont High	D	Thurgood Marshall High	C	27
Belle Haven PreK-8	D	Longfellow Alternative	NA	26
Kiser PreK-8	F	Longfellow Alternative	NA	26
Cleveland PreK-8	D	Longfellow Alternative	NA	25
Patterson/Kennedy PreK-8	F	Ruskin PreK-8	D	25
Dunbar High	D	Meadowdale High	D	24
Longfellow Alternative	NA	Meadowdale PreK-8	D	24
Longfellow Alternative	NA	Wright Brothers PreK-8	C	24
Kemp PreK-8	C	Longfellow Alternative	NA	20
Dunbar High	D	Thurgood Marshall High	C	19
Edison PreK-8	F	Longfellow Alternative	NA	19
Meadowdale High	D	Thurgood Marshall High	C	19
Cleveland PreK-8	D	Patterson/Kennedy PreK-8	F	18
E. J. Brown PreK-8	F	Fairview PreK-8	D	18
E. J. Brown PreK-8	F	Westwood PreK-8	F	18
Edison PreK-8	F	Rosa Parks PreK-8	D	18

Source: CRP analysis of ODE enrollment records

4.4   Origin and destination performance ratings

What is the performance rating of the destination school of mobile students, compared to the rating of the school of origin?

Tables 20-25 display the school year 2010–2011 state report card performance rating of the origin school and destination school for the most recent move a student made over a two school year period, where one of the schools was in the DPS district. Green table cells denote a destination school that is at least two ratings higher than the origin school, and orange cells denote a destination that is at least two rating lower than the origin schools. These tables exclude school changes involving a building with no rating available.

Exiting Dayton Public Schools for another district

Of the 1,587 students over two years who exited DPS for another district, 63.9% moved to a school with a performance rating at least two ratings *higher* than their DPS school of origin, while fewer than 1.5% moved to a school with a rating two or more ratings *lower* than their school of origin.

Table 20. Rating of origin and destination building for students *exiting* DPS for another district, Oct. 2009–May 2011

n=1,587 moves	Rating of **DESTINATION** school in other Ohio district					
Rating of **ORIGIN** DPS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	0	0	0
Excellent (A)	7	9	10	13	2	0
Effective (B)	1	18	7	2	2	0
Continuous Improvement (C)	18	171	104	126	24	7
Academic Watch (D)	46	264	186	181	24	6
Academic Emergency (F)	20	127	79	102	27	4

Source: CRP analysis of ODE enrollment records

Entering Dayton Public Schools from another district

Of the 1,062 students over two years who entered DPS from another district, fewer than 1% moved to a DPS school with a performance rating at least two ratings *higher* than their school of origin, while 59.6% moved to a DPS school with a rating two or more ratings *lower* than their school of origin.

Table 21. Rating of origin and destination buildings for students *entering* DPS from another district, Oct. 2009–May 2011

n=1,062 moves	Rating of **DESTINATION** DPS school					
Rating of **ORIGIN** school in other Ohio district	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	2	1	24	30	17
Excellent (A)	0	3	10	89	205	43
Effective (B)	0	3	5	73	114	40
Continuous Improvement (C)	0	4	4	77	154	70
Academic Watch (D)	0	1	1	14	47	16
Academic Emergency (F)	0	0	1	1	10	3

Source: CRP analysis of ODE enrollment records

Exiting Dayton Public Schools for a charter school

Of the 1,338 students over two years who left DPS for a charter school, 25.3% moved to a charter school with a performance rating at least two ratings *higher* than their DPS school of origin, while 5.2% moved to a charter school with a rating two or more ratings *lower* than their school of origin.

Table 22. Rating of origin and destination buildings for students *exiting* DPS for a public charter school (including e-charters), October 2009–May 2011

n=1,338 moves	Rating of DESTINATION charter school					
Rating of ORIGIN DPS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	0	0	0
Excellent (A)	7	0	10	18	0	1
Effective (B)	0	0	6	13	0	7
Continuous Improvement (C)	20	6	34	151	15	44
Academic Watch (D)	21	47	66	440	43	186
Academic Emergency (F)	18	1	45	115	21	3

Entering Dayton Public Schools from a charter school

Of the 818 students over two years who entered DPS from a charter school, 2.2% moved to a DPS school with a performance rating at least two ratings *higher* than their school of origin, while 26.5% moved to a DPS school with a rating two or more ratings *lower* than their school of origin.

Table 23. Rating of origin and destination buildings for students *entering* DPS from a public charter school (including e-charters), October 2009–May 2011

n=818	Rating of DESTINATION DPS school					
Rating of ORIGIN charter school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	10	7	2
Excellent (A)	0	1	0	0	5	0
Effective (B)	0	0	10	38	67	20
Continuous Improvement (C)	0	11	10	214	268	106
Academic Watch (D)	0	1	1	5	10	7
Academic Emergency (F)	0	0	0	5	18	2

Moving between Dayton Public Schools buildings

Of the 1,058 students over two years who moved from one DPS building to another, 14.2% moved to a building with a performance rating at least two ratings *higher* than their DPS school of origin, while 7.4% moved to a building with a rating two or more ratings *lower* than their school of origin.

Table 24. Rating of origin and destination buildings for students changing schools *within* the DPS district, October 2009–May 2011

n=1,058 moves	Rating of DESTINATION DPS school					
Rating of ORIGIN DPS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	0	0	0
Excellent (A)	0	0	13	11	7	3
Effective (B)	0	0	0	7	4	0
Continuous Improvement (C)	0	12	30	50	122	53
Academic Watch (D)	0	8	38	160	178	107
Academic Emergency (F)	0	3	9	80	94	69

Summary of destination performance ratings

Table 25. Summary: Rating of destination buildings for DPS students changing schools, October 2009–May 2011

Type of move	Number of student movers	Rating of destination school compared to school of origin (%)		
		At least 2 ratings lower	Same rating or within 1 rating higher or lower	At least 2 ratings higher
Exiting DPS for another district	1,587	1.5	34.6	63.9
Entering DPS from another district	1,062	59.6	39.6	0.8
Exiting DPS for a charter school	1,338	5.2	69.4	25.3
Entering DPS from a charter school	818	26.5	71.3	2.2
Changing schools within DPS	1,058	7.4	78.4	14.2

4.5   Open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

As of school year 2010–2011, DPS was primarily surrounded by districts that did not accept open enrollment students from other districts. However, many districts in the Dayton Area—particularly those in Ring 2—do permit open enrollment (Map 9). Thirteen pairs of districts had at least 50 students who resided in one district, but attended school in another district through inter-district open enrollment, including from a Springfield residence to Clark-Shawnee enrollment (273), Dayton to Northridge (173), Springfield to Northwestern (101), and Middletown to Madison (86).

Map 9. Open enrollment patterns of Dayton Area districts and total incoming students through open enrollment, school year 2010–2011
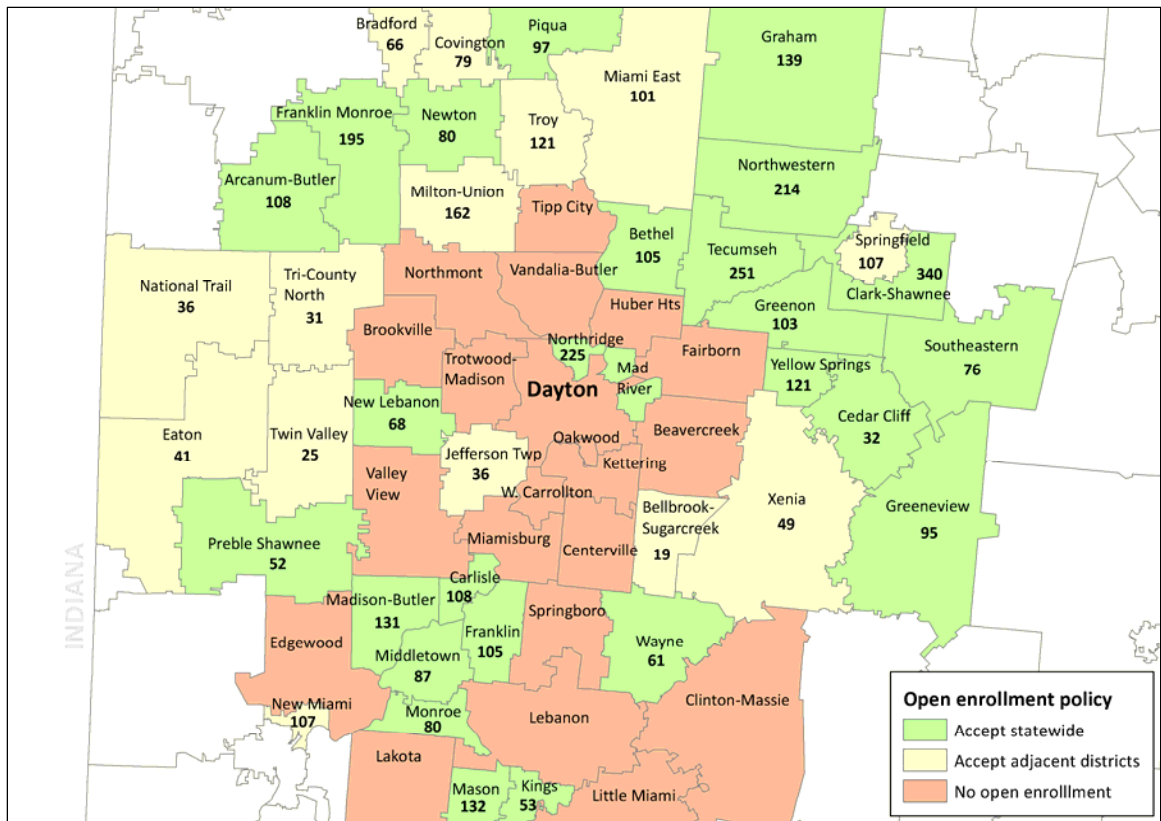
Source: CRP analysis of ODE enrollment records

5.0 Mobility and the student

5.1 Section overview and key concepts

This section of the report examines the relationship of mobility and student characteristics and achievement for DPS students. The analysis includes: (1) differences in demographic characteristics of mobile and non-mobile student groups, (2) differences in demographics of students who left the district based on the type of destination school, and (3) differences in proficiency test scores based on mobility status.

Student characteristics and mobility status

How do stable DPS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

- The demographic characteristics of DPS student groups based on their mobility status over a one-year period from October 1, 2009 to October 1, 2010, and statistical differences between these groups.

Data notes

- Demographic characteristics are from ODE student records and include race, grade, economic disadvantage, homeless, immigrant, LED, disability

Student characteristics and destination of outgoing students

How do the characteristics of outgoing DPS students differ based on their destination school?

- The demographic characteristics of DPS students who left the district from October 1, 2009 to October 1, 2010, based on their destination school type.

Data notes

- Demographic characteristics are from ODE student records and include race, grade, economic disadvantage, homeless, immigrant, LED, disability.

- Destination schools include another Ohio district, physical charter school, e-charter school, district outside of Ohio, and other (Includes expulsion, court order, private school, vocational school, home school, dropout, early graduation, medical, death, and unknown, which is the largest group)

Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

- **Mobility history:** Amount and type of student mobility of 3rd and 8th grade proficiency test takers during the two-year period preceding the school year 2011 test period.

- **Proficiency test passage:** Statistical analysis of the relationship between the mobility history of student groups and student attributes and proficiency on state achievement tests.

Data notes

- Mobility history includes: total school building changes (non-promotional), number of districts attended, number of community schools attended, and within school year withdrawal/reentry to same school.

- Mover groups include: 0 moves, 1 summer-only move, 1 during school year move, 2 moves, 3+ moves. Students in the 2-moves and 3+ moves groups have at least one school year move, but may have a combination of summer and school year moves.

5.2   Student characteristics and mobility status

How do stable DPS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

Table 26 provides a one-year snapshot of the characteristics of DPS student based on their mobility status. Statistical tests found the following significant differences between these groups:

- **Movers between Dayton Public Schools buildings**. Compared to stable DPS students, those who move between DPS buildings are more likely to be economically disadvantaged, homeless, or have a disability.

- **Outgoing and incoming students**. Compared to DPS students leaving the district, incoming students are more likely to be black, an immigrant, or LEP.

Stable DPS students were fairly evenly distributed across grade levels (8-9% in each grade. The following is the grade distribution of mover groups:

- **Movers between Dayton Public Schools buildings.** Forty-two percent of students who moved between DPS buildings were in grades K-3 and 16% were in grade 6.

- **Outgoing students**. Fourteen percent of students who left the district were in grade 9.

- **Incoming students**. Sixteen percent of all incoming students were in grade 8.

5.3   Student characteristics and destination of outgoing students

How do the characteristics of outgoing DPS students differ based on their destination school?

Statistical tests found the following significant differences between groups of students leaving the DPS district, based on their destination school (Table 26):

- **Race.** Compared to other racial groups, black students are more likely to move to a physical charter school or to a district outside of Ohio; white students are more likely to move to an e-charter or to a district outside of Ohio; and Hispanic students are more likely to move to a district outside of Ohio.

- **Immigrant and LEP.** Immigrant and LEP students are more likely than those who are not and immigrant or LEP to move to a district outside of Ohio.

Stable DPS students were fairly evenly distributed across grade levels (7-9% in each grade), although 11% of stable students were in grade 9. The following is the grade distribution of mover groups based on their destination school:

- **Other Ohio district.** Thirty-five percent of DPS students who moved to another Ohio district were in grades K-2.

- **Physical charter**. Twenty-eight percent of DPS students who moved to a physical charter were in grades 6 or 9.

- **E-students.** Sixty-eight percent of DPS students who moved to an e-charter were in grades 6-9, with 23% in grade 9.

- **District outside of Ohio.** Twenty-four percent of DPS students who moved to a district outside of Ohio were in grades K or 1, and 10% were in grade 9.

Table 26. Characteristics of DPS students by mobility status and destination, Oct. 1, 2009 to Oct. 1, 2010

	Characteristics of non-mobile and mobile DPS students				Characteristics of outgoing DPS students by destination				
	Stayed in district		Incoming (entered the district)	Outgoing (left the district	Other Ohio district	Physical charter school	E-charter school	District outside of Ohio	Other or NA (3)
	Stable Student (1)	Move between DPS buildings (2)							
All	9,751	897	2,117	2,364	819	566	87	179	713
	%	%	%	%	%	%	%	%	%
Race									
Black	68.2	70.5	64.0	59.3	49.8	75.6	39.1	51.4	61.7
White	24.0	22.0	24.2	28.6	34.4	15.5	49.4	31.8	28.9
Hispanic	3.2	2.1	2.6	4.2	3.9	2.1	2.3	14.0	3.9
Asian	0.4	0.2	0.7	1.0	1.7	0.5	2.3	0.0	0.7
Other	4.2	5.2	8.5	6.9	10.1	6.2	6.9	2.8	4.8
Grade SY 2009-2010									
K	8.5	10.8	9.6	8.8	10.9	8.0	2.3	10.6	7.4
1	8.8	10.0	8.5	8.1	11.0	6.2	0.0	13.4	5.9
2	8.3	9.9	8.7	9.1	12.6	9.0	4.6	6.1	6.3
3	8.7	10.8	8.2	7.3	9.8	6.4	4.6	8.4	5.2
4	8.7	8.8	8.7	7.6	9.3	6.7	3.4	8.4	6.7
5	8.0	8.0	8.5	6.7	7.4	7.1	5.7	7.8	5.3
6	7.7	15.7	9.3	8.7	8.7	11.5	12.6	8.4	6.0
7	8.4	9.7	7.6	6.3	5.6	7.1	12.6	7.8	5.3
8	8.5	0.7	16.3	9.1	8.5	7.6	19.5	8.4	9.7
9	9.5	8.7	7.2	14.1	8.3	16.1	23.0	10.1	19.1
10	8.1	4.8	4.9	8.6	5.1	9.5	5.7	7.3	12.6
11	6.8	2.0	2.6	5.8	2.8	4.9	5.7	3.4	10.4
Economic Disadvantage									
No	5.1	1.0	4.9	4.1	1.7	1.1	6.9	9.5	7.7
Yes	94.9	99.0	95.1	95.9	98.3	98.9	93.1	90.5	92.3
Homeless									
No	96.1	94.3	90.8	91.9	88.0	94.3	100.0	92.2	93.3
Yes	3.9	5.7	9.2	8.1	12.0	5.7	0.0	7.8	6.7
Immigrant									
No	98.9	99.6	96.9	98.7	98.4	99.1	100.0	96.1	99.3
Yes	1.1	0.4	3.1	1.3	1.6	0.9	0.0	3.9	0.7
LEP									
No	97.0	98.4	94.5	96.7	96.2	98.1	100.0	89.9	97.3
Yes	3.0	1.6	5.5	3.3	3.8	1.9	0.0	10.1	2.7
Disability									
No	78.9	75.1	80.3	79.8	79.0	83.0	78.2	87.2	76.6
Yes	21.1	24.9	19.7	20.2	21.0	17.0	21.8	12.8	23.4

Source: CRP analysis of ODE enrollment records

(1) Stable student: did not move or a promotional move only (i.e. elementary to middle school, middle school to high school)

(2) Does not include promotional moves

(3) Includes expulsion, court order, private school, vocational school, home school, dropout, early graduation, medical, death, and unknown, which is the largest group

5.4   Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

Mobility history of test takers

Of the 2,053 third- and eighth-grade DPS students who took the OAA tests in spring 2011, about one-in-three third-grade test takers and one-in-four 8th-grade test takers made at least one non-promotional move during the previous two school years (Table 27). The largest mover groups were those who made one summer-only group or one move during the school year.

Table 27. DPS: Mobility history of test-takers in spring 2011

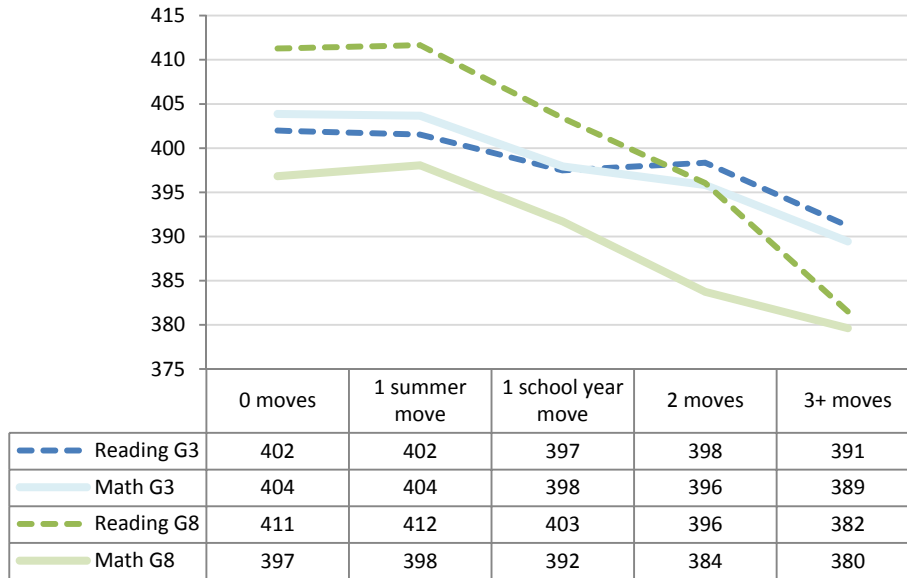| Mobility type and amount	3rd grade		8th grade	
	#	%	#	%
Test-takers	1,065	100.0%	988	100.0%
Total school changes over two school years				
0 moves	697	65.4%	705	71.4%
1 summer-only move	127	11.9%	90	9.1%
1 during school year move	134	12.6%	107	10.8%
2 moves	82	7.7%	57	5.8%
3+ moves	25	2.3%	29	2.9%

Source: CRP analysis of ODE enrollment records

Mobility history and economic disadvantage

The economic disadvantage rate for DPS was 92.5% in school year 2010-2011. As a result, there were not enough students in the "non-economic disadvantage" group to draw conclusions about the level of economic disadvantage by mover group.
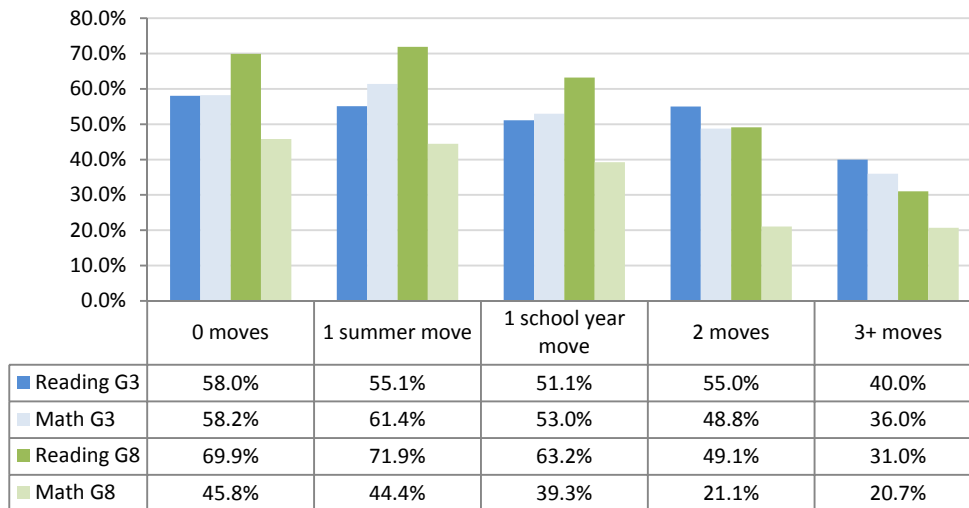
Mobility history and test scores

For all groups other than summer-only movers there is a general downward trend in average test scores and passage rates for 3rd and 8th grade OAA tests—with the exception of 3rd grade reading—with each successive school change that a DPS student made. (Figures 1 and 2). All mover groups who moved at least once during the school year had lower average test scores and passage rates than students who did not change schools over the previous two years. However, the scores were the same or slightly higher for the group with only one summer move than for the 0-mover group.

Figure 1. DPS: Average scores on spring 2011 Ohio Achievement Tests by two-year mobility history ==(adjust colors, line types)==

	0 moves	1 summer move	1 school year move	2 moves	3+ moves
Reading G3	402	402	397	398	391
Math G3	404	404	398	396	389
Reading G8	411	412	403	396	382
Math G8	397	398	392	384	380

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

Figure 2. DPS: Passage rates on spring 2011 Ohio Achievement Assessments by two-year mobility history

	0 moves	1 summer move	1 school year move	2 moves	3+ moves
Reading G3	58.0%	55.1%	51.1%	55.0%	40.0%
Math G3	58.2%	61.4%	53.0%	48.8%	36.0%
Reading G8	69.9%	71.9%	63.2%	49.1%	31.0%
Math G8	45.8%	44.4%	39.3%	21.1%	20.7%

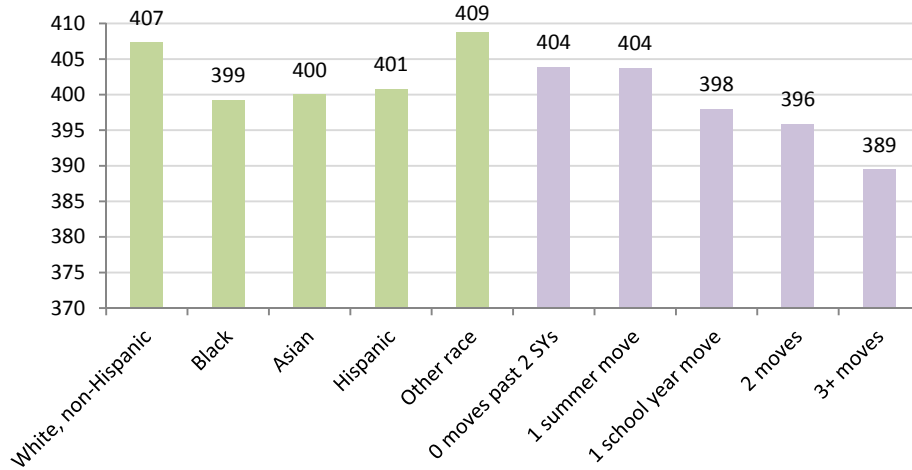Source: CRP analysis of ODE enrollment records

Summary: relationship of mobility, student characteristics, and test scores

Average test scores

Figure 3 shows the average scores on the spring 2011 3rd grade math test for selected student groups. Scores were highest for the following DPS student groups:

- Non-Hispanic white
- Had no school moves or only one summer move over the past two years

Figure 3. DPS: Average scores on 3rd grade math test by student groups, spring 2011

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

Statistical modeling

Table 28 shows the results of statistical tests of differences between groups in test scores based on the following factors: economic disadvantage, race or ethnicity, or number of moves over the past two years. The p-values on the table are for the test of whether there is a significant difference in scores due to each factor *after all other factors have been adjusted for*. If the p-value is small (p <= 0.05), the factor is very important in predicting the test scores.

For the DPS student 8th grade test-takers groups analyzed, the low p-values (<.0001) for all factors indicate that the number of school changes over two years is an independent predictor of test scores. There is a statistically significant relationship between more school moves and lower test scores. Economic disadvantage and race are also independent predictors of test scores.

For the 3rd grade groups, the number of school changes over the previous two years is an independent predictor of 3rd grade math scores, but this relationship was not found for 3rd grade reading scores. Race or ethnicity was also found to be an independent predictor of test scores, but not as strong as for the 8th grade test. Economic disadvantage was found to be a predictor of 8th grade test scores, but there were not enough students in the "non-economic disadvantage" group to test for this relationship for 3rd grade students.

Table 28. DPS: Significance of relationship of factors to test scores on selected OAA tests, spring 2011

Factor	Grade 3 Reading	Grade 3 Mathematics	Grade 8 Reading	Grade 8 Mathematics
Economic disadvantage status	NA	NA	<.0001	<.0001
Race or ethnicity category	0.0084	0.0006	<.0001	<.0001
Total number of school changes over past 2 school years	0.0966	0.0075	<.0001	<.0001

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

The statistical modeling also examined the differences in test scores based on the number of moves, and whether a move was in the summer or school year (Table 29). The following were found to be significant differences in mover groups:

- **Grade 3 math and reading test scores.** No difference was found between any of the mover groups in math or reading test scores.

- **Grade 8 math test scores.** The two-move and three or more move groups have lower mean test scores than those of the 0-mover group or the one summer move group.

- **Grade 8 reading test scores.** The one school year, two-move, and three or more move groups all have lower mean test scores than those of the 0-mover group. The two-move and three or more move groups also have lower mean test scores than those of the one summer move group.

Table 29. Significant differences in mean test scores of DPS students by number of moves over two school years preceding spring 2011 achievement test

Grade	0 moves	1 move, summer	1 move, school year	2 moves	3+ moves
Grade 3 Math					
0 moves					
1 move, summer	no				
1 move, school year	no	no			
2 moves	no	no	no		
3 or more moves	no	no	no	no	
Grade 3 Reading					
0 moves					
1 move, summer	no				
1 move, school year	no	no			
2 moves	no	no	no		
3 or more moves	no	no	no	no	
Grade 8 Math					
0 moves					
1 move, summer	no				
1 move, school year	no	no			
2 moves	yes (1)	yes	no		
3 or more moves	yes	yes	no	no	
Grade 8 Reading					
0 moves					
1 move, summer	no				
1 move, school year	yes	no			
2 moves	yes	yes	no		
3 or more moves	yes	yes	no	no	

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

(1) "yes" indicates p-value of <= 0.05 in tests of differences between groups

5.5   Mobility and achievement test roll-up level

An impact of student mobility is that mobile students may not meet the enrollment criteria—continually enrolled in a building or district from October 31 until the spring achievement testing date—for counting their test scores in a building's or district's performance rating. Instead, their test score is "rolled up" and counts only for the district or state rating.

- Among the Dayton Area Ring 1 districts, Jefferson Township has the highest percentage of students whose achievement test scores are rolled up to the state (Table 30).

- The DPS figure (10.1%) is the 9th highest among the Major Urban districts, with Cleveland (14.2%) and East Cleveland (10.2%) having the highest percentages of state-only accountability among test takers. Akron (4.3%) and Warren (5.3%) had the lowest roll-up percentages.

Table 30. Dayton Area Ring 1 districts: Roll-up for OAA test-takers in grades 3 to 8, spring 2011 test period

District	District rating	Econ. Disadv. (%)	Test-takers	Percentage of tests rolled up to district or state accountability		
				Building	District	State
Jefferson Township	D	5.3	165	82.4	0.0	17.6
Trotwood-Madison	C	81.9	1,249	87.2	0.4	12.4
Northridge	A	77.9	761	90.9	1.2	7.9
Dayton	C	92.5	6,522	88.5	3.7	7.9
Fairborn	B	51.1	1,943	92.6	0.0	7.4
Mad River	B	51.9	1,559	92.9	0.4	6.7
West Carrollton	A	54.5	1,662	92.9	1.0	6.1
Huber Hts	B	39.5	2,852	93.4	1.0	5.5
Vandalia-Butler	A	28.8	1,552	94.7	0.5	4.8
New Lebanon	B	48.8	505	95.8	0.0	4.2
Miamisburg	A	36.0	2,591	95.3	0.9	3.9
Brookville	A	25.2	714	96.4	0.0	3.6
Valley View	A+	17.2	883	96.5	0.0	3.5
Kettering	A	38.6	3,338	96.0	0.7	3.3
Beavercreek	A+	13.2	3,654	96.6	0.2	3.3
Centerville	A+	13.7	3,777	97.0	0.5	2.5
Northmont	A+	29.0	2,580	97.2	0.6	2.1
Oakwood	A+	4.3	1,051	98.9	0.1	1.0

Source: CRP analysis of ODE enrollment records

Appendices

Appendix A.   Dayton Area public school districts

Appendix B.   Dayton Area public school buildings

Appendix C.   Dayton Area public charter schools

The appendix provides basic mobility measures and demographics for all districts and schools in the Cincinnati Area. Additional data fields—including the component values used to calculate stability and churn rates—can be found in online spreadsheets at www.researchpartners.org.

Appendix A. Dayton Area public school districts, school year 2010–2011 (unless noted)

Ring	District	Rating	Average daily enrollment	Enrollment change since school year 2000–2001	Economic disadvantage	Minority race or ethnicity	Limited English Proficiency	Grade 3 reading proficiency, spring assessment	District cohort stability, Oct. 1, 2009–May 15, 2011 Grades K-7	District cohort stability Grades 8-11	Building cohort stability, Oct. 1, 2009–May 15, 2011 Grades K-7	Building cohort stability Grades 8-11	Churn rate, Oct. 1, 2010–May 15, 2011 Grades K-8	Churn rate Grades 9-12	Achievement test roll-up to state level for spring 2011 math test-takers, grades 3–8	Students residing in district but attending charter school — In bricks and mortar public charter school	In public e-charter school	Inter-district open enrollment — OUT: Residing in district but enrolling in other district	IN: Attending district through open enrollment
			#	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Beavercreek	A+	7,571	15.8	13.2	15.9	2.4	91.4	87.5	88.2	85.4	88.0	7.8	5.4	3.3	0.5	1.4	0.4	0.0
1	Brookville	A	1,465	-7.0	25.2	<5.0	0.0	90.9	91.2	79.8	91.7	74.7	8.5	9.6	3.6	0.2	1.8	0.6	0.0
1	Centerville	A+	8,035	10.1	13.7	18.9	1.7	91.5	89.2	93.4	86.7	93.6	6.6	4.6	2.5	0.3	0.9	0.2	0.0
1	Dayton	C	14,174	-31.1	92.5	74.8	3.2	55.2	78.5	71.5	68.8	64.8	18.2	19.4	7.9	28.6	4.2	1.1	0.0
1	Fairborn	B	4,264	-21.9	51.1	21.8	1.1	81.9	79.1	75.8	77.5	69.9	17.4	17.0	7.4	2.9	6.0	0.0	0.0
1	Huber Hts.	B	6,178	-8.0	39.5	34.7	3.1	84.5	82.2	79.4	76.9	75.7	12.7	12.2	5.5	4.8	3.1	1.7	0.0
1	Jefferson Township	D	419	-39.2	5.3	85.8	0.0	55.0	62.6	68.9	65.9	68.9	33.3	18.7	17.6	24.6	7.8	3.6	7.9
1	Kettering	A	7,123	-5.9	38.6	12.2	1.6	87.1	86.8	86.9	83.7	85.5	9.3	10.3	3.3	0.5	1.7	0.1	0.0
1	Mad River	B	3,461	-9.8	51.9	21.7	0.8	77.0	73.4	78.4	70.0	78.5	19.0	15.8	6.7	2.9	3.3	0.0	0.0
1	Miamisburg	A	5,338	10.4	36.0	15.1	1.0	85.8	83.4	78.0	71.5	76.1	12.4	12.4	3.9	2.6	2.2	0.4	0.0
1	New Lebanon	B	1,160	-15.0	48.8	<5.0	0.0	88.5	86.0	77.1	85.5	70.2	12.9	11.3	4.2	0.6	3.8	0.7	5.8
1	Northmont	A+	5,377	-3.7	29.0	26.1	1.4	89.8	89.4	84.2	83.1	80.5	6.3	7.7	2.1	0.7	1.9	1.7	0.0
1	Northridge	A	1,627	-18.9	77.9	25.9	0.0	73.0	72.4	68.2	71.0	65.1	17.4	26.8	7.9	5.0	2.2	0.2	12.0
1	Oakwood	A+	2,075	8.5	<5.0	7.2	0.0	98.8	93.0	91.7	91.9	91.6	2.5	4.0	1.0	0.1	0.5	0.0	0.0
1	Trotwood-Madison	C	2,657	-26.9	81.9	92.1	0.0	67.4	70.9	69.4	68.0	64.4	20.8	22.0	12.4	17.9	3.1	1.5	0.0
1	Valley View	A+	1,873	-2.9	17.2	<5.0	0.0	83.9	89.0	82.8	87.9	81.3	7.4	7.8	3.5	0.2	2.4	0.5	0.0
1	Vandalia-Butler	A	3,206	-4.4	28.8	13.4	0.7	88.9	87.9	86.2	85.8	84.6	10.2	8.9	4.8	0.9	2.2	0.9	0.0
1	West Carrollton	A	3,726	-1.5	54.5	23.7	4.9	80.9	77.8	77.0	77.2	76.0	17.3	17.4	6.1	2.7	3.2	0.2	0.0
2	Arcanum-Butler	A	1,025	-13.2	20.3	<5.0	0.0	84.9	89.2	78.2	89.4	76.1	4.5	9.1	3.1	0.0	1.9	10.0	10.9
2	Bellbrook-Sugarcreek	A	2,602	4.9	15.3	12.9	1.3	96.1	91.4	90.2	91.7	89.5	4.8	4.3	1.7	0.1	1.6	0.1	0.7
2	Bethel	A	894	3.5	12.6	<5.0	2.1	91.1	88.7	81.8	87.4	80.8	10.6	9.9	4.6	0.3	3.4	4.0	11.2
2	Bradford	B	609	3.4	50.5	<5.0	0.0	78.0	89.5	69.4	89.7	69.4	11.5	15.5	7.2	0.0	1.8	6.6	10.9
2	Carlisle	A	1,702	0.7	33.5	<5.0	0.0	87.7	86.0	78.5	84.4	73.6	9.1	9.3	3.7	0.9	2.7	1.7	6.1
2	Cedar Cliff	A	592	-4.8	12.8	9.3	0.0	88.9	88.2	79.9	64.2	79.9	9.1	9.8	4.0	0.3	3.3	4.9	5.2
2	Clark-Shawnee	A+	2,204	-9.7	33.7	9.0	0.0	84.1	89.0	79.4	88.8	76.8	7.4	8.3	2.2	1.2	2.2	8.0	15.2
2	Clinton-Massie	A+	1,796	13.5	27.7	<5.0	0.0	86.7	88.9	83.2	88.3	81.5	8.9	7.5	3.6	0.2	3.9	4.2	7.2
2	Covington	A	885	0.5	24.4	<5.0	0.0	79.7	91.8	82.6	91.1	80.3	7.3	6.2	3.6	0.0	1.3	5.9	9.0

Dayton Area public school districts (alphabetical by name within Ring1 and Ring 2)			District attributes						District cohort stability, Oct. 1, 2009–May 15, 2011		Building cohort stability, Oct. 1, 2009–May 15, 2011		Churn rate, Oct. 1, 2010–May 15, 2011		Achievement test roll-up to state level for spring 2011 math test-takers, grades 3–8	Students residing in district but attending charter school		Inter-district open enrollment	
Ring	District	Rating	Average daily enrollment	Enrollment change since school year 2000–2001	Economic disadvantage	Minority race or ethnicity	Limited English Proficiency	Grade 3 reading proficiency, spring assessment	Grades K-7	Grades 8-11	Grades K-7	Grades 8-11	Grades K-8	Grades 9-12		In bricks and mortar public charter school	In public e-charter school	OUT: Residing in district but enrolling in other district	IN: Attending district through open enrollment
			#	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
2	Eaton Community	A	2,167	-3.3	27.9	<5.0	0.9	67.3	88.8	80.3	88.6	76.9	13.3	15.2	4.8	0.0	2.7	3.9	1.8
2	Edgewood	A	3,540	12.9	33.6	<5.0	0.0	89.3	89.0	78.7	80.7	76.7	12.4	11.5	4.7	0.5	1.6	1.8	1.0
2	Franklin Monroe	A	757	6.5	21.9	<5.0	0.0	84.0	93.9	77.7	93.3	77.7	8.4	10.5	2.8	0.5	1.1	7.8	26.2
2	Franklin	B	2,911	-2.5	44.7	<5.0	0.0	89.1	86.9	79.5	83.2	75.7	10.5	11.8	3.8	0.9	3.7	2.4	3.5
2	Graham	B	2,303	8.0	30.8	<5.0	0.0	80.1	88.4	85.1	88.5	82.3	9.0	8.9	3.6	4.9	3.8	4.1	6.3
2	Greeneview	B	1,338	-12.8	27.6	<5.0	0.0	81.3	89.0	80.0	89.3	75.9	6.5	6.5	2.6	0.1	3.1	2.9	6.9
2	Greenon	A+	1,870	-5.8	29.7	6.2	0.0	80.1	91.2	87.0	88.7	85.4	9.9	5.4	3.3	0.2	2.1	4.4	5.2
2	Kings	A	3,914	13.0	17.1	10.8	2.0	92.6	88.5	87.8	85.6	86.8	6.7	7.5	3.0	0.1	2.8	0.1	1.3
2	Lakota	A+	17,409	21.1	14.6	23.9	4.9	89.2	89.2	85.5	86.5	84.5	6.9	8.6	2.5	0.2	1.5	0.3	0.0
2	Lebanon	A	5,450	25.7	23.5	10.6	1.4	91.4	87.9	83.5	87.8	81.5	11.1	23.8	3.6	0.2	4.1	1.0	0.0
2	Little Miami	A	3,833	47.1	20.1	6.8	0.5	87.8	80.5	74.5	72.9	72.3	8.9	7.8	3.0	0.1	4.3	4.1	0.0
2	Madison	A	1,568	3.6	27.7	<5.0	0.0	86.8	87.4	81.4	39.7	58.5	9.4	10.0	3.1	2.0	2.2	1.2	8.2
2	Mason	A+	10,503	66.3	6.4	24.7	2.4	96.8	91.8	90.8	91.3	67.4	5.9	4.5	2.3	0.1	0.8	0.0	1.2
2	Miami East	A+	1,212	-8.3	19.3	<5.0	0.0	84.7	90.7	85.4	90.7	81.3	6.5	5.4	3.2	0.4	1.7	7.4	8.2
2	Middletown	C	6,540	-10.4	71.5	32.8	4.2	69.7	79.9	73.5	68.4	69.2	17.7	23.7	6.0	8.3	3.7	2.8	1.2
2	Milton-Union	A	1,740	-5.1	39.7	<5.0	0.0	87.3	86.5	79.8	86.4	75.9	10.3	9.6	2.7	0.2	2.3	3.0	10.0
2	Monroe	A	2,232	61.6	25.2	12.6	2.7	85.1	86.3	79.1	86.1	76.6	9.9	10.8	4.2	1.1	2.2	1.3	3.4
2	National Trail	B	1,085	-8.8	41.7	<5.0	0.0	85.5	88.4	79.1	88.4	73.1	8.6	11.0	2.4	0.1	2.5	4.0	3.2
2	New Miami	A	770	-11.2	78.4	9.8	0.0	73.6	74.3	63.3	73.1	58.3	20.4	24.3	9.0	0.1	3.9	4.6	13.2
2	Newton	A	599	1.7	27.4	<5.0	0.0	88.2	92.5	91.0	92.4	91.0	10.3	3.3	1.4	0.0	1.0	8.9	13.2
2	Northwestern	A+	1,760	-5.7	28.1	5.5	0.0	82.9	88.0	85.8	88.4	84.2	8.6	8.2	2.4	0.8	1.7	7.0	12.0
2	Piqua	B	3,377	-9.0	53.2	12.7	0.0	90.3	85.8	81.1	81.3	78.5	10.5	12.7	5.0	0.0	3.2	3.3	2.6
2	Preble Shawnee	B	1,433	-15.1	43.0	<5.0	0.0	89.7	86.8	77.0	74.2	77.0	9.9	11.7	2.8	0.8	2.0	3.6	3.6
2	Southeastern	A	798	0.5	27.5	<5.0	0.0	93.2	87.8	83.5	65.3	81.4	5.9	4.8	2.2	0.4	2.6	5.7	9.5
2	Springboro Community	A+	5,493	64.0	6.3	8.5	0.4	95.7	92.3	89.0	91.5	87.2	4.0	4.1	1.6	0.1	1.4	0.7	0.0
2	Springfield	B	7,398	-24.2	76.3	37.9	1.6	63.3	81.3	69.7	64.7	51.4	14.5	24.0	6.1	6.8	3.0	7.6	1.4
2	Tecumseh	B	3,191	-11.0	48.4	12.9	3.7	85.0	87.7	79.7	84.4	75.1	11.3	17.5	5.2	0.3	3.4	1.7	7.3
2	Tipp City	A	2,535	-2.0	18.3	<5.0	1.2	92.7	90.3	86.8	90.4	85.7	6.7	5.7	1.7	0.0	1.5	1.4	2.7
2	Tri-County North	B	1,041	-12.4	36.1	<5.0	0.0	87.3	89.7	72.3	89.6	67.5	6.3	13.3	1.9	0.0	2.4	2.1	3.1

Ring	District	Rating	Average daily enrollment	Enrollment change since school year 2000–2001	Economic disadvantage	Minority race or ethnicity	Limited English Proficiency	Grade 3 reading proficiency, spring assessment	District cohort stability, Oct. 1, 2009–May 15, 2011		Building cohort stability, Oct. 1, 2009–May 15, 2011		Churn rate, Oct. 1, 2010–May 15, 2011		Achievement test roll-up to state level for spring 2011 math test-takers, grades 3–8	In bricks and mortar public charter school	In public e-charter school	OUT: Residing in district but enrolling in other district	IN: Attending district through open enrollment
									Grades K-7	Grades 8-11	Grades K-7	Grades 8-11	Grades K-8	Grades 9-12					
			#	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
2	Troy	A+	4,466	-0.2	40.4	15.3	1.2	90.0	88.3	82.6	82.8	79.6	9.1	12.2	3.7	0.0	2.3	3.3	2.6
2	Twin Valley	A	913	-13.0	34.6	<5.0	0.0	82.8	89.6	78.3	89.1	75.9	9.8	13.6	3.8	0.1	2.4	3.3	2.6
2	Wayne	A	1,471	14.0	19.6	<5.0	1.2	88.5	89.3	82.7	88.5	81.5	7.5	7.2	3.2	0.0	2.2	0.5	4.1
2	Xenia Community	B	4,761	-4.0	54.3	24.7	0.4	72.1	84.6	74.9	77.8	70.9	12.7	15.7	4.7	0.7	3.8	2.8	1.0
2	Yellow Springs	A+	718	14.0	23.9	32.0	0.0	84.5	87.7	80.8	87.4	80.8	6.6	9.0	2.3	0.2	1.8	3.5	16.5

Dayton Area public school buildings alphabetical by district and school name		District attributes					Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Arcanum-Butler	Arcanum Elementary School	K-5	A	485	24.4	<5.0	88.5	4.6
Arcanum-Butler	Arcanum High School	9-12	A	307	14.2	<5.0	76.1	9.1
Arcanum-Butler	Butler Middle School	6-8	B	233	19.9	<5.0	92.2	4.3
Beavercreek	Beavercreek High School	9-12	A	2,536	10.9	15.3	88.0	5.4
Beavercreek	Fairbrook Elementary School	K-5	A+	597	13.2	13.8	83.2	9.8
Beavercreek	Ferguson Middle School	6-8	A	977	12.0	19.9	89.7	7.2
Beavercreek	Herman K Ankeney Middle School	6-8	A	866	15.8	11.2	89.9	4.3
Beavercreek	Main Elementary School	K-5	A	839	12.0	14.1	88.8	7.5
Beavercreek	Parkwood Elementary School	PK-5	B	449	29.6	9.5	83.6	6.6
Beavercreek	Shaw Elementary School	K-5	A	769	10.9	29.3	79.5	15.6
Beavercreek	Valley Elementary School	K-5	A	538	13.5	11.9	81.4	6.0
Bellbrook-Sugarcreek	Bell Creek Intermediate School	3-5	A	589	19.9	14.6	91.3	5.4
Bellbrook-Sugarcreek	Bellbrook High School	9-12	A	886	11.3	11.0	89.5	4.4
Bellbrook-Sugarcreek	Bellbrook Middle School	6-8	A	634	14.0	12.7	93.3	4.0
Bellbrook-Sugarcreek	Stephen Bell Elementary School	K-2	NA	473	18.3	15.9	90.2	5.1
Bethel	Bethel Elementary School	K-6	A	453	12.6	5.1	88.8	10.0
Bethel	Bethel High School	9-12	A	292	12.4	5.1	80.8	9.9
Bethel	Bethel Junior High School	7-8	B	149	12.8	<5.0	79.7	12.6
Bradford	Bradford Elementary School	K-5	B	273	53.7	<5.0	92.2	12.0
Bradford	Bradford High School	6-12	B	335	47.9	<5.0	75.0	13.1
Brookville	Brookville High School	9-12	A	500	21.2	<5.0	74.7	9.6
Brookville	Brookville Intermediate School	4-8	A	584	26.9	<5.0	92.6	8.4
Brookville	Westbrook Elementary School	K-3	A	380	27.8	<5.0	90.3	8.7
Carlisle	Alden R Brown Elementary School	K-2	NA	367	36.4	5.9	78.1	9.9
Carlisle	Bobby F. Grigsby Intermediate School	3-5	A	401	38.3	5.3	90.7	7.9
Carlisle	Carlisle High School	9-12	A	515	23.0	<5.0	73.6	9.3
Carlisle	Chamberlain Middle School	6-8	B	420	39.0	<5.0	85.3	9.5
Cedar Cliff	Cedarville Elementary School	K-6	A	221	16.8	11.0	70.8	8.4
Cedar Cliff	Cedarville High School	7-12	A	370	10.4	11.0	70.1	9.9
Centerville	Centerville High School	9-12	A	2,807	11.8	16.9	93.6	4.6
Centerville	Centerville Primary Village North	K-1	NA	355	11.7	14.0	71.2	12.7
Centerville	Centerville Primary Village South	K-1	NA	501	18.2	26.1	76.1	8.9
Centerville	Dr John Hole Elementary School	2-5	A+	360	10.9	15.2	88.4	9.4
Centerville	Driscoll Elementary School	2-5	A	271	16.7	18.2	84.3	8.2
Centerville	Hadley E Watts Middle School	6-8	A	737	11.7	17.9	90.8	5.7
Centerville	Magsig Middle School	6-8	A+	614	18.1	23.4	89.6	6.1
Centerville	Normandy Elementary School	2-5	A+	541	15.7	27.5	85.6	11.4
Centerville	Stingley Elementary School	2-5	A+	271	10.8	12.1	90.1	4.8
Centerville	Tower Heights Middle School	6-8	A	594	12.1	12.9	91.6	4.4
Centerville	W O Cline Elementary School	2-5	A+	458	28.3	24.9	88.3	9.3
Centerville	Weller Elementary School	2-5	A+	484	6.4	22.0	89.7	4.1
Clark-Shawnee	Clark-Shawnee Kindergarten Vil Elementary School	K	NA	65	32.3	13.2		10.0
Clark-Shawnee	Possum Elementary School	1-8	A	544	40.6	12.0	87.3	8.6
Clark-Shawnee	Reid Elementary School	1-8	A	583	38.1	7.2	89.6	7.2
Clark-Shawnee	Rockway Elementary School	1-8	A	253	28.6	<5.0	90.4	6.3
Clark-Shawnee	Shawnee High School	9-12	A	758	27.1	9.8	76.8	8.3
Clinton-Massie	Clinton-Massie Elementary School	K-5	A+	787	30.9	<5.0	87.9	9.1
Clinton-Massie	Clinton-Massie High School	9-12	A	595	23.2	<5.0	81.5	7.5

Dayton Area public school buildings alphabetical by district and school name		District attributes					Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Clinton-Massie	Clinton-Massie Middle School	6-8	A+	414	28.2	<5.0	89.4	8.5
Covington	Covington Elementary School	PK-5	B	404	29.8	6.0	90.3	5.6
Covington	Covington High School	9-12	A	282	15.1	<5.0	80.3	6.2
Covington	Covington Middle School	6-8	A	199	26.3	5.6	93.3	10.9
Dayton	Belle Haven PreK-8 School	PK-8	D	466	>95.0	>95.0	72.9	22.2
Dayton	Belmont High School	9-12	D	813	87.4	54.8	47.4	34.7
Dayton	Charity Adams Earley Girls Academy	K-6	C	319	>95.0	91.6	76.9	17.5
Dayton	Cleveland PreK-8 School	PK-8	D	483	>95.0	36.7	69.7	20.3
Dayton	David H. Ponitz Career Technology Center	9-12	C	610	78.2	84.9	80.8	7.3
Dayton	Dayton Boys Preparatory Academy	PK-7	C	260	>95.0	92.6	63.1	37.2
Dayton	Dunbar High School	9-12	D	550	78.1	>95.0	53.9	34.8
Dayton	E. J. Brown PreK-8 School	PK-8	F	463	>95.0	89.9	66.2	26.0
Dayton	Eastmont Park PreK-8 School	PK-8	D	466	>95.0	21.1	73.8	27.5
Dayton	Edison PreK-8 School	PK-8	F	401	>95.0	>95.0	67.0	20.7
Dayton	Fairview PreK-8 School	PK-8	D	352	>95.0	>95.0	69.6	42.4
Dayton	Gardendale Academy	K-12	NA	56	>95.0	69.3	55.3	86.7
Dayton	Gorman School	PK-8	NA	48	>95.0	62.3	87.0	3.3
Dayton	Horace Mann PreK-8 School	PK-8	C	458	>95.0	48.3	74.5	17.0
Dayton	Kemp PreK-8 School	PK-8	C	436	>95.0	38.2	60.8	28.2
Dayton	Kiser PreK-8 School	PK-8	F	493	>95.0	62.8	72.4	25.2
Dayton	Longfellow Alternative School	PK-12	NA	290	67.6	74.9	21.2	293.6
Dayton	Louise Troy PreK-8 School	PK-8	D	369	>95.0	>95.0	60.6	29.2
Dayton	Meadowdale High School	9-12	D	605	83.8	>95.0	61.4	44.3
Dayton	Meadowdale PreK-8 School	PK-8	D	453	>95.0	93.5	66.2	38.1
Dayton	Patterson/Kennedy PreK-8 School	PK-8	F	607	>95.0	57.4	59.5	35.8
Dayton	River's Edge Montessori PreK-8 School @ Franklin	K-8	D	421	>95.0	47.9	63.0	22.0
Dayton	Rosa Parks PreK-8 School	PK-8	D	450	>95.0	>95.0	78.9	26.0
Dayton	Ruskin PreK-8 School	PK-8	D	475	>95.0	43.8	72.8	22.9
Dayton	Stivers School For The Arts	7-12	B	911	55.2	66.3	90.1	3.9
Dayton	Thurgood Marshall High School	9-12	C	624	83.5	>95.0	65.7	20.8
Dayton	Valerie PreK-8 School	PK-8	A	460	>95.0	94.9	74.6	10.8
Dayton	Westwood PreK-8 School	PK-8	F	431	>95.0	>95.0	66.1	30.5
Dayton	Wogaman PreK-8 School	PK-8	C	474	>95.0	>95.0	72.2	19.7
Dayton	World of Wonder PreK-8 School	PK-8	C	456	>95.0	>95.0	73.4	20.8
Dayton	Wright Brothers PreK-8 School @ Grant	PK-8	C	429	>95.0	27.4	61.0	33.7
Eaton Community	Eaton High School	9-12	B	674	23.0	<5.0	76.9	15.2
Eaton Community	Eaton Middle School	6-8	A	535	27.8	<5.0	88.4	15.7
Eaton Community	Hollingsworth East Elementary School	K-2	NA	452	31.3	6.6	87.4	12.6
Eaton Community	William Bruce Elementary School	3-5	B	506	31.6	7.2	89.9	11.2
Edgewood	Babeck Elementary School	1-5	A	469	50.1	6.1	75.5	25.3
Edgewood	Bloomfield Elementary School	PK-5	A+	737	29.3	<5.0	71.2	12.4
Edgewood	Edgewood High School	9-12	A	1,071	28.7	<5.0	76.7	11.5
Edgewood	Edgewood Middle School	6-8	C	868	37.0	<5.0	91.4	9.3
Edgewood	Seven Mile Elementary School	1-5	A	395	28.3	<5.0	90.9	9.1
Fairborn	Baker Middle School	6-8	B	909	51.4	20.9	80.9	15.1
Fairborn	Fairborn High School	9-12	A	1,223	38.1	21.7	69.9	17.0
Fairborn	Fairborn Intermediate School	4-5	B	660	59.8	20.9	78.7	18.0
Fairborn	Fairborn Primary School	PK-3	A	1,471	57.7	23.5	75.2	18.8
Franklin Monroe	Franklin Monroe Elementary School	K-6	A	369	24.1	5.7	94.1	9.3
Franklin Monroe	Franklin Monroe High School	7-12	C	388	19.9	<5.0	80.1	8.7

District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Franklin-Warren County	Anthony Wayne Elementary School	1-6	B	276	64.9	<5.0	76.2	18.7
Franklin-Warren County	Franklin High School	9-12	A	916	38.6	<5.0	75.7	11.8
Franklin-Warren County	Franklin Junior High School	7-8	B	440	44.2	5.8	89.3	11.0
Franklin-Warren County	George H Gerke Elementary School	1-6	B	319	57.2	<5.0	81.9	11.9
Franklin-Warren County	Hampton Bennett Early Childhood Center	K	NA	134	30.8	5.6		17.3
Franklin-Warren County	Hunter Elementary School	1-6	A	328	26.1	<5.0	87.2	7.4
Franklin-Warren County	Pennyroyal Elementary School	1-6	B	259	65.6	7.4	79.8	14.9
Franklin-Warren County	William C Schenck Elementary School	1-6	B	239	39.0	<5.0	84.5	6.3
Graham	Graham Elementary School	PK-5	B	982	39.5	<5.0	89.8	8.1
Graham	Graham High School	9-12	A	674	21.8	<5.0	82.3	8.9
Graham	Graham Middle School	6-8	A	491	31.2	<5.0	85.4	10.7
Greeneview	Greeneview High School	9-12	A	425	21.6	5.0	75.9	6.5
Greeneview	Greeneview Intermediate School	4-8	B	561	27.7	<5.0	91.6	6.0
Greeneview	Greeneview Primary School	K-3	A	353	34.8	<5.0	85.9	7.2
Greenon	Enon Elementary School	K-4	B	347	31.4	10.8	85.3	13.1
Greenon	Greenon High School	9-12	A	673	23.6	<5.0	85.4	5.4
Greenon	Hustead Elementary School	K-4	B	274	37.8	7.7	86.4	10.7
Greenon	Indian Valley Middle School	5-8	A	576	31.9	6.1	92.3	8.7
Huber Hts.	Kitty Hawk Elementary School	PK-5	B	266	54.5	38.0	69.0	18.8
Huber Hts.	Lamendola Elementary School	K-5	B	476	39.5	28.1	74.2	21.2
Huber Hts.	Menlo Park Elementary School	K-5	B	372	49.6	32.4	79.1	13.2
Huber Hts.	Monticello Elementary School	K-5	A	375	53.0	38.6	71.1	18.0
Huber Hts.	Rushmore Elementary School	K-5	C	371	42.2	35.6	77.3	9.3
Huber Hts.	Studebaker Middle School	6-8	B	760	43.6	35.3	82.3	12.4
Huber Hts.	Titus Elementary School	K-5	B	336	26.0	30.5	79.3	12.8
Huber Hts.	Valley Forge Elementary School	K-5	A	469	46.8	34.8	72.9	19.5
Huber Hts.	Wayne High School	9-12	B	2,049	29.9	35.0	75.7	12.2
Huber Hts.	Weisenborn Middle School	6-8	B	704	45.1	38.0	81.4	14.9
Jefferson Township	Blairwood Elementary School	K-6	D	179	<5.0	83.4	65.5	30.2
Jefferson Township	Jefferson High School	7-12	D	240	5.7	87.6	68.7	25.1
Kettering	Beavertown Elementary School	K-5	A	347	49.2	11.0	82.1	16.9
Kettering	Greenmont Elementary School	K-5	B	294	61.4	16.9	77.8	13.9
Kettering	Indian Riffle Elementary School	K-5	A	446	40.5	7.6	86.1	12.0
Kettering	J F Kennedy Elementary School	K-5	A	536	54.0	23.3	77.8	11.6
Kettering	Kettering Fairmont High School	9-12	A	2,297	31.4	9.7	85.5	10.3
Kettering	Kettering Middle School	6-8	A	957	48.3	11.3	88.7	8.1
Kettering	Oakview Elementary School	K-5	B	391	37.8	12.2	84.1	8.9
Kettering	Orchard Park Elementary School	K-5	A	254	28.4	11.4	79.9	12.3
Kettering	Prass Elementary School	K-5	A	346	29.5	11.9	87.8	8.1
Kettering	Southdale Elementary School	K-5	A+	535	36.3	16.8	80.5	14.5
Kettering	Van Buren Middle School	6-8	A	712	31.7	11.4	87.2	11.5
Kings	Columbia Elementary School	5-6	A	602	21.9	10.3	89.4	6.0
Kings	J F Burns Elementary School	K-4	A	623	15.7	14.5	83.2	8.8
Kings	Kings High School	9-12	A	1,172	11.5	10.2	86.8	7.5
Kings	Kings Junior High School	7-8	A	615	15.8	9.6	92.9	5.2
Kings	Kings Mills Elementary School	K-4	A+	484	11.1	11.3	82.1	7.5
Kings	South Lebanon Elementary School	K-4	A	418	36.8	10.1	83.0	11.4
Lakota-Butler County	Adena Elementary School	2-6	A+	753	14.2	13.8	87.8	6.6
Lakota-Butler County	Cherokee Elementary School	2-6	A	798	16.6	19.2	90.5	6.5
Lakota-Butler County	Creekside Early Childhood School	PK-1	NA	565	12.4	31.1	81.6	9.9

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Dayton Area public school buildings alphabetical by district and school name					**District attributes**			**Mobility measures**
				#	%	%	%	%
Lakota-Butler County	Endeavor Elementary School	2-6	A+	753	13.4	35.7	84.9	9.4
Lakota-Butler County	Freedom Elementary School	2-6	A+	667	21.5	32.1	82.6	9.7
Lakota-Butler County	Heritage Elementary School	2-6	A+	605	16.6	25.0	85.9	7.9
Lakota-Butler County	Hopewell Elementary School	2-6	A+	796	17.2	23.4	84.5	7.6
Lakota-Butler County	Hopewell Junior School	7-8	A+	612	14.0	25.7	85.6	9.3
Lakota-Butler County	Independence Elementary School	2-6	A+	675	11.1	21.4	87.7	9.2
Lakota-Butler County	Lakota East High School	9-12	A	2,667	13.7	21.9	84.4	10.0
Lakota-Butler County	Lakota Plains Junior School	7-8	A+	758	8.9	22.3	89.4	5.8
Lakota-Butler County	Lakota Ridge Junior School	7-8	A+	605	18.0	28.0	89.6	9.0
Lakota-Butler County	Lakota West High School	9-12	A	2,812	11.9	23.2	84.6	7.8
Lakota-Butler County	Liberty Early Childhood School	K-1	NA	391	19.1	28.7	81.9	9.4
Lakota-Butler County	Liberty Junior School	7-8	A+	807	12.8	15.7	90.3	5.3
Lakota-Butler County	Shawnee Early Childhood School	PK-1	NA	492	24.2	29.9	79.6	12.0
Lakota-Butler County	Union Elementary School	2-6	A+	747	20.1	34.1	86.2	9.9
Lakota-Butler County	VanGorden Elementary School	2-6	A+	696	<5.0	12.8	91.6	2.9
Lakota-Butler County	Woodland Elementary School	2-6	A	585	22.2	24.3	86.3	9.1
Lakota-Butler County	Wyandot Early Childhood School	K-1	NA	623	16.5	25.6	85.2	8.0
Lebanon	Berry Intermediate School	5-6	A	893	24.6	10.5	88.4	9.4
Lebanon	Bowman Primary School	1-2	NA	887	27.6	13.4	86.4	12.6
Lebanon	Donovan Elementary School	3-4	A	886	27.2	12.6	88.2	9.7
Lebanon	Lebanon High School	9-12	A	1,658	18.6	8.7	81.5	23.8
Lebanon	Lebanon Junior High	7-8	A	874	23.4	9.6	88.3	11.6
Lebanon	Louisa Wright Elementary School	PK-K	NA	251	23.6	15.2		13.0
Little Miami	Hamilton-Maineville Elementary School	1-3	A	479	11.8	8.8	80.7	5.6
Little Miami	Little Miami High School	8-12	A	1,317	18.7	6.8	72.3	7.7
Little Miami	Little Miami Intermediate Middle School	3-5	A	819	21.9	7.1	80.8	10.0
Little Miami	Little Miami Junior High School	6-7	A	609	23.2	5.6	80.6	9.5
Little Miami	SalemTownship Elementary School	PK-2	NA	610	24.2	6.9	56.8	10.1
Mad River	Beverly Gardens Elementary School	K-4	A	342	36.4	30.7	52.3	28.0
Mad River	Brantwood Elementary School	K-4	B	340	56.2	26.9	73.0	23.4
Mad River	Mad River Middle School	7-8	B	498	56.5	20.4	81.1	16.0
Mad River	Saville Elementary School	K-4	A	329	70.5	15.6	76.5	18.7
Mad River	Spinning Hills Middle School (5-6)	5-6	A	541	56.7	21.7	77.3	14.8
Mad River	Stebbins High School	9-12	B	1,077	43.5	20.8	78.5	15.8
Mad River	Virginia Stevenson Elementary School	K-4	B	316	60.8	18.5	60.7	27.3
Madison-Butler County	Madison Elementary School	K-5	B	661	38.2	<5.0	84.5	10.8
Madison-Butler County	Madison High School	9-12	A	507	16.6	<5.0	45.1	10.0
Madison-Butler County	Madison Middle School	6-8	A	400	24.6	<5.0	23.7	7.2
Mason	Mason Early Childhood Center Elementary School	PK-1	NA	1,198	7.3	31.3	86.7	10.0
Mason	Mason Heights Elementary School	2-3	A	826	5.9	23.4	90.9	5.9
Mason	Mason Intermediate Elementary School	4-6	A+	2,696	5.7	25.7	92.4	4.8
Mason	Mason Middle School	7-9	A+	1,780	7.4	23.0	47.2	3.8
Mason	Western Row Elementary School	2-3	A	851	6.9	35.3	89.2	7.9
Mason	William Mason High School	7-12	A	3,153	5.9	19.7	92.1	4.5
Miami East	Miami East Elementary	K-5	A	542	25.7	<5.0	91.1	7.7
Miami East	Miami East High School	9-12	A	377	9.1	<5.0	81.3	5.4
Miami East	Miami East Junior High School	6-8	A	292	20.5	<5.0	89.6	4.4
Miamisburg	Bauer Elementary School	K-5	B	468	35.5	31.1	57.2	20.9
Miamisburg	Bear Elementary School	K-5	A	217	50.4	<5.0	76.3	16.9
Miamisburg	Jane Chance Elementary	K-5	B	456	47.1	14.4		18.5

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				#	%	%	%	%
Miamisburg	Maddux-Lang Primary School	PK-K	NA	30				
Miamisburg	Mark Twain Elementary School	K-5	A+	345	44.0	11.5	78.4	17.6
Miamisburg	Medlar View Elementary School	K-5	A	537	30.6	21.2	65.4	12.3
Miamisburg	Miamisburg High School	9-12	A	1,549	29.3	13.1	76.1	12.4
Miamisburg	Mound Elementary School	K-5	B	408	38.2	10.1	74.7	12.7
Miamisburg	Neff Building Elementary School	6	A	469	40.5	15.2	0.0	14.6
Miamisburg	Wantz Middle School	7-8	A	859	36.1	13.8	86.7	9.7
Middletown	Amanda Elementary School	PK-5	C	396	89.1	16.2	61.2	35.1
Middletown	Central Academy Nongraded Elementary School	K-8	B	320	57.8	31.8	74.0	13.0
Middletown	Creekview Elementary School	PK-5	C	449	71.1	34.1	66.3	24.2
Middletown	Highview Elementary School	K-5	B	377	74.5	24.2	61.9	33.6
Middletown	Mayfield Elementary School	K-5	C	445	84.5	27.8	66.8	37.2
Middletown	Middletown High School	9-12	C	1,794	61.2	33.3	69.2	23.7
Middletown	Miller Ridge Elementary School	K-5	A	461	52.2	22.6	70.1	18.9
Middletown	Rosa Parks Elementary School	PK-5	D	423	94.8	61.4	64.2	42.9
Middletown	Stephen Vail Middle School	6-8	B	776	71.1	38.0	78.8	20.6
Middletown	Verity Middle School	6-8	B	596	79.3	27.2	72.3	22.7
Middletown	Wildwood Elementary School	K-5	B	503	79.5	40.3	63.2	23.2
Milton-Union	Milton-Union Elementary School	K-5	A	719	44.7	<5.0	86.6	10.8
Milton-Union	Milton-Union High School	9-12	A	666	33.5	<5.0	75.9	9.9
Milton-Union	Milton-Union Middle School	6-8	A	356	41.4	<5.0	86.0	10.6
Monroe	Monroe Elementary School	3-6	A+	707	30.7	14.6	86.3	11.0
Monroe	Monroe High School	9-12	A	686	19.1	11.8	76.6	10.8
Monroe	Monroe Junior High School	7-8	A	342	26.1	12.4	84.3	11.9
Monroe	Monroe Primary School	PK-2	NA	497	25.3	11.4	86.8	7.4
National Trail	National Trail Elementary School	K-4	A	418	47.9	<5.0	86.6	10.2
National Trail	National Trail High School	9-12	A	324	27.6	<5.0	73.1	11.0
National Trail	National Trail Middle School	5-8	B	343	47.6	<5.0	90.7	6.6
New Lebanon	Dixie Elementary School	K-4	A	456	57.5	7.3	85.9	14.0
New Lebanon	Dixie High School	9-12	A	369	37.6	5.5	70.2	11.3
New Lebanon	Dixie Middle School	5-8	B	335	49.3	5.0	84.9	11.5
New Miami	New Miami High School	9-12	B	225	70.1	5.7	58.3	24.3
New Miami	New Miami Elementary School	K-5	A	352	83.4	14.2	71.8	21.4
New Miami	New Miami Middle School	6-8	B	193	78.9	7.9	76.2	18.6
Newton	Newton Elementary School	K-6	A	343	32.1	8.6	91.6	11.2
Newton	Newton High School	7-12	A	256	21.2	5.3	92.6	4.8
Northmont	Englewood Elementary School	K-6	A+	312	28.2	20.9	68.4	10.3
Northmont	Englewood Hills Elementary School	1-6	A	381	32.3	37.8	87.6	5.6
Northmont	Northmont High School	9-12	A	1,830	22.0	26.8	80.5	7.7
Northmont	Northmont Middle School	7-8	A	903	31.2	26.9	89.1	5.5
Northmont	Northmoor Elementary School	K-6	A+	571	28.0	25.6	88.2	7.6
Northmont	Northwood Elementary School	K-6	B	450	35.2	41.9	79.7	9.5
Northmont	O R Edgington Elementary School	K-6	A+	490	35.3	19.7	82.3	6.1
Northmont	Union Elementary School	K-6	A	439	38.9	8.1	81.7	8.2
Northridge-Montgomery County	Esther Dennis Middle School	6-8	A	332	81.2	23.9	76.0	20.2
Northridge-Montgomery County	Grafton Kennedy Elementary School	1-5	C	335	85.5	7.0	76.3	15.6
Northridge-Montgomery County	Morrison Elementary School	1-5	C	335	86.9	49.4	62.5	23.8
Northridge-Montgomery	Northridge High School	9-12	B	471	65.4	23.2	65.1	26.8

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				#	%	%	%	%
County								
Northridge	Timberlane Learning Center	PK-K	NA	153	73.1	32.3		14.2
Northwestern	Northwestern Elementary School	PK-4	A	638	34.0	6.1	87.2	9.1
Northwestern	Northwestern High School	9-12	A	573	16.2	5.2	84.2	8.2
Northwestern	Northwestern Middle School	5-8	A	548	33.6	5.7	89.9	8.2
Oakwood	Harman Elementary School	1-6	A+	459	<5.0	6.8	90.3	3.1
Oakwood	Julian & Marjorie Lange School Elementary School	K	NA	59	<5.0	5.8		5.9
Oakwood	Oakwood High School	9-12	A	670	<5.0	<5.0	91.6	4.0
Oakwood	Oakwood Junior High School	7-8	A+	367	<5.0	8.4	94.1	1.1
Oakwood	Smith Elementary School	1-6	A+	520	8.3	9.9	92.5	3.3
Piqua	Bennett Intermediate Elementary School	4-6	C	253	74.7	15.6	76.8	21.9
Piqua	Favorite Hill Primary Elementary School	1-3	A	283	77.7	11.0	76.5	21.1
Piqua	High Street Primary Elementary School	1-3	A	268	41.4	12.0	81.3	12.6
Piqua	Nicklin Learning Center Elementary School	K	NA	159	62.2	13.4		8.1
Piqua	Piqua High School	9-12	A	1,059	41.6	10.6	78.5	12.7
Piqua	Piqua Junior High School	7-8	B	568	52.9	14.0	85.2	11.7
Piqua	Springcreek Primary Elementary School	1-3	A	255	64.2	17.2	77.5	21.6
Piqua	Washington Intermediate Elementary School	4-6	A+	254	39.5	14.0	86.7	14.0
Piqua	Wilder Intermediate Elementary School	4-6	B	277	61.8	11.9	81.9	19.3
Preble Shawnee	Camden Primary School	PK-3	A	430	42.5	<5.0	85.1	10.8
Preble Shawnee	Preble Shawnee High School/Junior High School	7-12	B	680	42.3	<5.0	78.3	11.8
Preble Shawnee	West Elkton Intermediate School	2-8	B	323	45.0	<5.0	61.2	7.3
Southeastern	Miami View Elementary School	K-6	B	426	30.1	<5.0	85.8	6.7
Southeastern	Southeastern Sr. High School	9-12	A	250	24.9	5.2	81.4	4.8
Southeastern	Southeastern Jr. High School	7-8	B	122	23.6	<5.0	31.7	3.3
Springboro Community	Clearcreek Elementary School	K	NA	241	<5.0	10.6		4.3
Springboro Community	Dennis Elementary East	1-5	A	595	10.8	5.8	88.6	5.4
Springboro Community	Dennis Elementary West	1-5	A	587	8.6	7.1	91.0	6.0
Springboro Community	Five Points Elementary East	1-5	A	601	<5.0	12.0	93.1	4.8
Springboro Community	Five Points Elementary West	1-5	A+	609	<5.0	11.4	91.4	4.5
Springboro Community	Springboro High School	9-12	A	1,546	6.5	6.8	87.2	4.1
Springboro Community	Springboro Intermediate School	6	A	424	8.9	8.5		3.3
Springboro Community	Springboro Junior High School	7-8	A	889	6.4	9.8	93.6	3.6
Springfield	Fulton Elementary School	K-6	D	363	92.9	61.2	58.2	34.3
Springfield	Hayward Middle School	7-8	B	387	84.0	58.4	72.5	16.9
Springfield	Keifer Alternative Center	K-12	F	318	65.2	52.2	32.6	215.3
Springfield	Kenton Elementary School	K-6	B	401	71.3	33.9	58.3	32.7
Springfield	Kenwood Elementary	K-6	D	377	85.6	33.8	61.1	25.6
Springfield	Lagonda Elementary School	K-6	B	373	89.3	32.0	65.2	32.2
Springfield	Lincoln Elementary School	K-6	D	411	>95.0	45.8	63.0	39.7
Springfield	Mann Elementary School	K-6	B	470	78.2	22.1	66.6	20.7
Springfield	Perrin Woods Elementary School	K-6	D	413	85.1	79.3	65.5	24.1
Springfield	Roosevelt Middle School	7-8	C	389	68.8	28.4	71.4	21.5
Springfield	Schaefer Middle School	7-8	B	264	77.2	21.1	68.4	23.7
Springfield	Snowhill Elementary School	K-6	A+	491	48.4	24.2	71.0	17.4
Springfield	Snyder Park Elementary School	K-6	D	371	89.0	23.6	58.5	33.2
Springfield	Springfield High School	9-12	C	1,781	66.7	38.9	52.8	35.2
Springfield	Warder Park-Wayne Elementary School	K-6	D	539	83.5	20.8	69.5	26.1
Tecumseh	Donnelsville Elementary School	PK-5	B	296	33.0	8.7	90.1	5.8
Tecumseh	Medway Elementary School	PK-5	B	270	56.1	19.9	84.9	19.6

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Tecumseh	New Carlisle Elementary School	K-5	B	454	58.2	18.5	81.0	12.1
Tecumseh	Park Layne Elementary School	K-5	A+	368	66.6	10.0	79.0	19.2
Tecumseh	Tecumseh Middle School	6-8	B	778	46.7	12.3	87.6	11.4
Tecumseh	Tecumseh High School	9-12	A	1,024	41.1	11.9	75.1	17.5
Tipp City	Broadway Elementary School	K-3	A	344	14.6	5.1	90.9	6.9
Tipp City	L. T. Ball Intermediate School	4-5	A	366	18.4	<5.0	90.6	5.4
Tipp City	Nevin Coppock Elementary School	K-3	A	360	28.3	6.4	87.6	9.5
Tipp City	Tippecanoe High School	9-12	A	870	14.0	<5.0	85.7	5.7
Tipp City	Tippecanoe Middle School	6-8	A	595	20.6	6.5	92.1	6.1
Tri-County North	Tri-County North Elementary School	K-4	A	361	39.6	<5.0	87.9	6.5
Tri-County North	Tri-County North High School	9-12	A	332	33.1	<5.0	67.5	13.3
Tri-County North	Tri-County North Middle School	5-8	B	348	35.4	<5.0	91.6	6.0
Trotwood-Madison	Madison Park Elementary	2-5	C	312	93.5	84.7	59.8	27.3
Trotwood-Madison	Trotwood-Madison Early Learning Center	PK-1	NA	334	85.1	88.4	62.7	22.2
Trotwood-Madison	Trotwood-Madison High School	9-12	C	914	74.3	94.1	64.4	22.0
Trotwood-Madison	Trotwood-Madison Middle School	6-8	C	621	83.9	91.3	71.4	21.1
Trotwood-Madison	Westbrooke Village Elementary	2-5	C	474	84.4	>95.0	72.0	21.6
Troy	Concord Elementary School	K-5	A+	562	25.0	15.3	89.7	6.5
Troy	Cookson Elementary School	K-5	B	340	59.2	16.2	78.2	12.3
Troy	Forest Elementary School	K-5	A	277	71.3	13.5	75.7	8.8
Troy	Heywood Elementary School	K-5	B	312	59.9	16.8	76.2	16.8
Troy	Hook Elementary School	K-5	B	290	46.4	13.0	81.1	10.3
Troy	Kyle Elementary School	K-5	A	227	77.5	18.0	77.0	28.4
Troy	Troy High School	9-12	A	1,396	27.6	15.0	79.6	12.2
Troy	Troy Junior High School	7-8	A+	726	34.3	16.3	92.3	7.7
Troy	Van Cleve Elementary School	6	A	336	39.2	15.3		12.0
Twin Valley	Twin Valley South Elementary School	K-5	A	361	41.8	<5.0	88.3	8.5
Twin Valley	Twin Valley South High School	9-12	A	317	27.4	<5.0	75.9	13.6
Twin Valley	Twin Valley South Middle School	6-8	A	236	33.5	<5.0	90.9	11.8
Valley View	Farmersville Elementary School	K-5	A	374	18.1	<5.0	88.0	4.7
Valley View	Germantown Elementary School	K-5	A	456	16.6	<5.0	86.9	9.7
Valley View	Valley View High School	9-12	A	618	16.7	<5.0	81.3	7.8
Valley View	Valley View Middle School	6-8	A+	425	17.7	5.9	89.1	7.2
Vandalia-Butler	Butler High School	9-12	A	1,106	21.6	11.7	84.6	8.9
Vandalia-Butler	Demmitt Elementary School	K-4	A	322	38.0	9.9	84.5	9.4
Vandalia-Butler	Helke Elementary School	K-4	A	371	27.9	16.8	83.7	15.1
Vandalia-Butler	Morton Middle School	5-8	A	501	32.7	9.7	88.8	9.7
Vandalia-Butler	Murlin Heights Elementary School	K-4	A	364	42.0	20.1	84.0	13.1
Vandalia-Butler	Smith Middle School	5-8	A	542	26.4	17.2	86.9	10.8
Wayne	Waynesville Elementary School	K-5	A	620	24.9	5.8	87.2	7.6
Wayne	Waynesville High School	9-12	A	490	12.9	<5.0	81.5	7.2
Wayne	Waynesville Middle School	6-8	A	361	19.5	<5.0	91.6	7.4
West Carrollton	C F Holliday Elementary School	1-5	C	417	71.2	34.1	71.4	29.8
West Carrollton	Frank Nicholas Elementary School	K-5	A+	192	75.7	34.8	71.0	23.4
West Carrollton	Harold Schnell Elementary School	1-5	A	437	40.7	19.4	83.9	6.5
West Carrollton	Harry Russell Elementary School	1-5	A+	368	63.7	27.2	68.8	24.2
West Carrollton	Shade Elementary School	K	NA	370	59.0	25.1		19.5
West Carrollton	West Carrollton High School	9-12	A	1,101	42.2	18.8	76.0	17.4
West Carrollton	West Carrollton Middle School	6-8	A	842	58.6	22.7	82.2	15.5
Xenia Community	Arrowood Elementary School	K-5	B	249	57.7	31.9	84.3	11.5

Dayton Area public school buildings alphabetical by district and school name		District attributes					Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Xenia Community	Central Middle School	6-8	B	577	47.5	23.4	83.7	12.1
Xenia Community	Cox Elementary School	K-5	C	322	69.5	25.7	74.2	20.8
Xenia Community	McKinley Elementary School	K-5	C	423	57.9	27.4	86.2	8.5
Xenia Community	Shawnee Elementary School	K-5	C	257	67.1	31.5	64.6	21.3
Xenia Community	Simon Kenton Elementary School	K-5	A	390	62.1	27.0	77.7	15.5
Xenia Community	Spring Hill Elementary School	K-5	C	272	75.1	28.7	66.0	16.4
Xenia Community	Tecumseh Elementary School	K-5	A	346	38.9	19.9	79.4	14.2
Xenia Community	Warner Middle School	6-8	C	495	59.9	24.2	76.6	17.7
Xenia Community	Xenia High School	9-12	C	1,430	45.2	22.2	70.9	15.8
Yellow Springs	Mills Lawn Elementary School	K-6	A	385	30.6	32.9	87.0	6.0
Yellow Springs	Yellow Springs/McKinney High School	7-12	A	333	16.3	33.3	82.8	9.0

Appendix C. Dayton Area public charter schools, school year 2010–2011 (unless noted)

Dayton Area public charter schools alphabetical by school name				District attributes			Mobility measures	
District of location	School *denotes dropout recovery school	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Graham	A.B. Graham Academy	K-12	B	157	13.5	<5.0	73.7	23.8
Dayton	City Day Community School	K-8	C	171	>95.0	>95.0	55.5	26.3
Dayton	Dayton Early College Academy, Inc	7-12	A+	390	78.4	87.9	77.6	5.8
Dayton	Dayton Leadership Academies-Dayton Liberty Campus	K-8	C	485	>95.0	>95.0	61.6	17.4
Dayton	Dayton Leadership Academies-Dayton View Campus	K-8	C	517	>95.0	>95.0	62.6	24.1
Dayton	Dayton Technology Design High School*	9-12	F	133	87.3	>95.0	39.8	54.5
Dayton	Emerson Academy	K-8	B	595	>95.0	29.0	63.9	23.4
Jefferson Township	General Chappie James Leadership Academy*	9-12	C	120	60.7	>95.0	21.9	63.7
Dayton	Horizon Science Academy Dayton Downtown	K-12	D	130	>95.0	17.9	-	20.8
Dayton	Horizon Science Academy Dayton High School	K-12	C	252	63.5	55.1	51.6	20.7
Dayton	Horizon Science Academy-Dayton	K-12	C	153	>95.0	89.9	32.8	16.1
Dayton	Klepinger Community School	K-8	C	130	50.8	>95.0	52.7	15.7
Dayton	Life Skills Center of Dayton*	9-12	F	353	89.6	81.4	11.1	227.2
Middletown	Life Skills Center-Middletown*	9-12	C	277	79.2	22.4	12.8	175.4
Springfield	Life Skills Center-Springfield*	9-12	F	185	82.5	34.8	12.6	168.4
West Carrollton	Miami Valley Academies	K-12	D	167	87.8	21.8	49.3	41.2
Miamisburg	Miamisburg Secondary Academy*	7-12	C	81	<5.0	13.7	13.0	150.0
Middletown	Middletown Fitness & Prep Acad	K-8	C	274	78.3	57.2	67.2	20.9
Dayton	Mound Street Health Careers Acadmy*	9-12	C	143	83.9	91.4	26.0	165.7
Dayton	Mound Street IT Careers Academy*	9-12	C	94	84.0	>95.0	19.3	134.0
Dayton	Mound Street Military Careers Academy*	9-12	C	72	87.6	79.2	11.5	124.1
Dayton	New Choices Community School	7-12	C	149	54.9	59.8	44.8	55.2
Dayton	North Dayton School Of Science & Discovery	K-8	C	507	>95.0	>95.0	65.7	13.0
Dayton	Pathway School of Discovery	K-8	B	685	77.5	28.1	75.1	12.7
Dayton	Richard Allen Academy	1-8	C	121	82.9	>95.0	76.7	6.6
Dayton	Richard Allen Academy II	K-8	C	449	77.3	>95.0	68.4	6.5
Hamilton	Richard Allen Academy III	K-8	C	183	92.1	>95.0	59.1	13.9
Dayton	Richard Allen Preparatory	K-12	NA	224	79.9	>95.0	42.2	5.7
Springfield	Springfield Acad Of Excellence	K-6	D	215	93.9	80.6	79.4	11.9
Springfield	Springfield Preparatory and Fitness Academy	K-8	A	161	90.4	64.2	64.6	11.8
Dayton	Summit Academy Dayton	K-12	F	88	77.0	36.5	62.1	14.6
Middletown	Summit Academy Secondary School - Middletown	8-12	C	47	33.6	8.5	76.0	18.8
Dayton	Summit Academy Transition High School Dayton	9-12	C	52	50.4	25.8	78.1	27.1
Xenia Community	Summit Academy-Xenia	K-10	D	63	60.5	22.4	68.3	4.8
Middletown	Summit Acdy Comm Schl for Alternative Learners of Middletown	K-10	F	92	60.8	8.4	84.6	15.2
Trotwood-Madison	Tech Con Institute*	K-12	F	57	94.4	>95.0	20.7	66.7
Dayton	The ISUS Institute of Construction Technology*	9-12	A	51	88.8	49.9	17.3	164.5
Dayton	The ISUS Institute of Health Care*	9-12	A	75	93.3	62.3	22.1	197.3
Dayton	The ISUS Institute of Manufacturing*	9-12	A	33	92.8	62.1	24.3	129.4
Trotwood-Madison	Trotwood Fitness & Prep Acad	K-8	C	328	93.7	93.4	65.6	14.7

Ohio Student Mobility Research Project
Toledo Area Profile

November 2012

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Summary

Student mobility is the phenomenon of students in grades K-12 changing schools for reasons other than customary promotion from elementary to middle school and middle to high school. This change may happen during the school year or over the summer. Mobility has consequences for schools, students, communities, and public policy. Research has found that students who change schools most frequently have worse educational outcomes.

In 2011, Community Research Partners and the Thomas B. Fordham Institute entered into a partnership to conduct research on student mobility in Ohio. The research analyzes more than five million student records over two school years to provide a picture of student mobility for all Ohio public districts and buildings and public charter schools, with in-depth analysis for the Columbus, Cleveland, Cincinnati, Dayton, and Toledo areas.

The Toledo Area Profile

The Toledo Area Profile focuses on the mobility of 22,277 Toledo Public Schools (TPS) students and that of the more than 76,000 students in the other 26 public districts, 34 physical charter schools, and e-charter schools in an approximate 30 mile radius of TPS (the research does not include schools and students outside of Ohio). For analysis purposes, Toledo Area districts are divided into Ring 1—those adjacent to TPS and/or within Lucas County—and Ring 2, the remaining districts.

Magnitude of mobility

The magnitude of mobility examines *how many* students change schools, both during the school year and between school years, and is measured in two ways: 1) cohort stability and 2) churn.

Cohort stability: measures retention of students over time

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

In the least stable Toledo Area districts, about one of every three students in a school at the beginning of a school year is not in that same building at the end of a second school year. The most stable districts lose fewer than one in ten students.

Grades K-7 building stability
- **Toledo Public Schools.** Sixty-four percent of a cohort of students in grades K-7 remained in the same TPS building over two years, the lowest rate of the 14 Toledo Area Ring 1 districts.
- **Other less stable districts.** Of the Toledo Area Ring 1 districts, only the Washington district had a building stability rate below 70% for grades K-7.
- **Most stable districts**. Ottawa Hills was the only Ring 1 district with a building stability rate of 90% or greater for grades K-7.

Grades 8-11 building stability
- **Toledo Public Schools.** Only 49% percent of a cohort students in grades 8-11 remained in the same TPS building over two years, the lowest stability rate of the 14 Toledo Area Ring 1 districts.
- **Other less stable districts.** No other Toledo Area Ring 1 district had a building stability rate of 70% or less for grades 8-11.
- **Most stable districts**. Ottawa Hills and Sylvania had building stability rates of 90% or greater for grades 8-11.

Charter school stability
- Only six of the 39 largest physical charter schools in the Toledo Area had stability rates of 70% or more, while 16 schools had rates of less than 50%, losing half or more of their students over two years. The least stable charter schools are primarily dropout recovery schools.

Churn: measures movements into and out of a building or district

What are the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

There were more than 8,000 admissions to and withdrawals from schools in the 14 Toledo Area Ring 1 districts during the 2010-2011 school year. For most of these districts, churn in grades K-8 resulted in a net gain of students (more admissions than withdrawals), while the churn in grades 9-12 produced a net loss of students (more withdrawals than admissions).

District churn

- **Toledo Public Schools.** The TPS K-8 churn rate (16.5%) and the 31.1% churn rate for grades 9-12 were the highest among the 14 Ring 1 districts. The 25 TPS buildings with the most churn had rates ranging from 34% to 149%. The building with the most churn was Scott High School.

- **Other high churn districts.** No other Toledo Area Ring 1 districts had a grade K-12 churn rate of 20% or more.

- **Lowest churn districts.** The Ottawa Hills and Anthony Wayne districts had the least churn among the Ring 1 districts, with K-12 rates of below 5.0%.

Charter school building churn

- Only six of the 33 largest physical charter schools in the Toledo Area had churn rates below 10%, while seven schools had rates of greater than 50%. The charter schools with the greatest churn (97-180%) were primarily dropout recovery schools.

Mobility Patterns

Mobility patterns show the movement of students between school districts and buildings and between public districts and charter schools, as well as the characteristics of origin and destination schools. The analysis includes: 1) district and building mobility patterns, 2) report card ratings of origin and destination schools, and 3) inter-district open enrollment analysis.

Mobility patterns: districts and buildings that exchange students

How many unique students did pairs of districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts?

Over two school years, the 27 public districts in the Toledo Area exchanged 4,773 students. Another 7,052 students were exchanged between public districts and charter schools (both physical and e-charters). The largest numbers of exchanges were between districts in close proximity to each other, but TPS also exchanged students with other Major Urban districts across the state.

Toledo Public Schools

Over two school years, 6,776 unique students transferred between TPS and another Ohio district or charter school. Of these, 39% moved to or from another district; 56% moved to or from a physical charter school; and 5% moved to or from an e-charter school. During this time period, 2,870 students made a non-promotional change of schools within the TPS district.

- **Toledo Public Schools exchanges with other districts.** Over two school years, 2,656 students were enrolled in a TPS school and in one of the 30 Ohio public districts that exchanged the most students with TPS. In these exchanges, 1,094 students entered TPS from another district, and 1,562 students left TPS for another district. The districts that exchanged at least 200 students with TPS were Washington, Springfield Local, and Sylvania.

- **Toledo Public Schools exchanges with charters.** Over two school years, 4,574 students were exchanged between TPS schools and 30 charter schools. Ninety-three percent of these exchanges were from TPS to a physical charter school, and only 7% were with e-charters.

- **Toledo Public Schools exchanges with buildings in other districts.** The largest numbers of TPS inter-district building moves occurred at the high school level. Only 10 of the top 30 exchanges involved elementary schools. TPS Start, Bowsher, and Rogers high schools exchanged a total of at least 50 students each with high schools in the Washington, Springfield Local, Maumee, and Sylvania districts.

- **Exchanges among Toledo Public Schools buildings.** Of the 2,870 TPS students who changed schools within the TPS district over two years, 71% occurred among students in grades K-4. Of the 30 TPS buildings that exchanged the most students, Rosa Parks Elementary was the most frequent receiving school, followed by Picket Elementary and Spring Elementary. The most frequent sending schools were Glenwood Elementary, Martin Luther King Academy for Boys, and Lagrange Elementary.

Other Toledo Area districts

- **Exchange patterns among districts.** Over two years, there were 2,392 student exchanges among the 25 largest Toledo Area districts (excluding TPS). The Springfield Local, Washington, and Sylvania districts had the most inter-district exchanges, with Washington and Sylvania exchanging 124 students.

Origin and destination report card ratings

What is the performance rating of the destination school of mobile students, compared to the rating of the school of origin?

For students who moved into, out of, or within the TPS district, the report card rating of the student's destination school, when compared to that of the school of origin, varied based on the types of buildings or districts involved in the move:

- **Exiting Toledo Public Schools for another district.** Fifty-six percent went to a school with a rating similar to (the same or one rating higher or lower) than that of their school of origin; 44% went to a school with a rating two or more ratings higher.

- **Entering Toledo Public Schools from another district.** Fifty-four percent went to a school with a rating similar to (the same or one rating higher or lower) than that of their school of origin; 44% went to a school with a rating two or more ratings lower.

- **Exiting Toledo Public Schools for a charter school.** Fifty-seven percent went to a school with a rating similar to (the same or one rating higher or lower) than that of their school of origin; 35% went to a school with a rating two or more ratings lower.

- **Changing schools within Toledo Public Schools.** Sixty-eight percent went to a school with a rating similar to (the same or one rating higher or lower) that of their school of origin.

Open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

As of school year 2010–2011, there was a mix of districts adjacent to TPS, including some that accept open enrollment districts, but most that did not. However, many districts in the Toledo Area—particularly those in Ring 2—do permit open enrollment (Map 9). Three pairs of Toledo Area districts had at least 50 students who resided in one district, but attended school in another district through inter-district open enrollment: Toledo residence to Oregon enrollment (145), Toledo to Northwood (82), and Washington to Toledo (62).

Mobility and the student

The analysis of mobility and TPS student characteristics and achievement examines differences in: (1) demographics of mobile and non-mobile student groups, (2) demographics of students who left the district based on the type of destination school, and (3) proficiency test scores based on mobility status.

Student characteristics and mobility status

How do stable TPS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

- **Movers between Toledo Public Schools buildings.** Compared to stable TPS students, those who move between TPS buildings are more likely to be black, economically disadvantaged, homeless, or have a disability.
- **Outgoing and incoming students.** Compared to outgoing TPS students, incoming students are more likely to be black, economically disadvantaged, or an immigrant.

Student characteristics and destination of outgoing students

How do the characteristics of outgoing TPS students differ based on their destination school?

- **Race.** Compared to other racial groups, black students are more likely to move to a physical charter school or a district outside of Ohio; white students are more likely to move to another Ohio district, an e-charter, or a district outside of Ohio; and Hispanic students are more likely to move to physical charter or e-charter.
- **Economic disadvantage.** Economically disadvantaged TPS students are more likely than those who are not economically disadvantaged to move to a physical charter.
- **Limited English Proficiency.** LEP students are more likely than those who are not LEP to move to a district outside of Ohio.

Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

Mobility history and test scores

The average test scores and passage rates of 3rd and 8th grade OAA tests are lower for students with at least 1 during academic year move or 2+ total moves over the past two years (Figures 1, 2). However, there is no clear indication that more moves are related to lower scores and rates.

Statistical modeling compared mean test scores for mover groups. For the TPS student groups analyzed, the low p-values for all factors indicate that the number of school changes over two years is an independent predictor of test scores. There is a statistically significant relationship between more school moves and lower test scores, although not as strong for 8th grade reading and math. Economic disadvantage and race are also independent predictors of test scores.

Mobility and achievement test roll-up level

An impact of student mobility is that mobile students may not meet the enrollment criteria—continually enrolled in a building or district from October 31 until the spring achievement testing date—for counting their test scores in a building's or district's performance rating. Instead, their test score is "rolled up" and counts only for the district or state rating. Among the Toledo Area Ring 1 districts, Toledo has the highest percentage of students whose achievement test scores are rolled up to the state (8.7%), the fourth highest among the 15 Major Urban districts.

Statewide context

To provide context for the data in the Toledo Area Profile, Table i includes comparison data on key district demographics and selected mobility measures for the 15 public school districts classified by ODE as "Major Urban," as well as for all public districts and all public charter schools in the state.

Table i. Ohio Major Urban Districts: District and student characteristics, school year 2010–2011 (SY 2011)

	Rating	Average daily enrollment	Enroll. chg. since SY 2001 (%)	Economic disadvan. (%)	Minority race or ethnicity (%)	Two-year district stability rate, Oct. 2009–May 2011 (%)		Two-year building stability rate, Oct. 2009–May 2011 (%)		One-year churn rate, school year 2010–2011 (%)		Test roll-up to state (4) (%)
						Grades K–7	Grades 8–11	Grades K–7	Grades 8–11	Grades K–8	Grades 9–12	
All Ohio public school districts (1)	-	1,637,230	-6.2	43.1	23.3	85.9	81.5	80.8	78.0	9.5 (2)	9.1 (2)	4.5
All Major Urban districts	-	244,396	-39.6	82.6	70.1	77.6	70.0	64.3	60.5	16.5 (2)	22.7 (2)	9.1
Akron	C	22,603	-25.3	84.7	59.5	81.5	77.1	68.9	66.2	12.3	18.2	4.3
Canton	C	9,750	-18.3	80.6	51.8	82.0	80.2	68.1	74.6	15.6	21.3	5.6
Cincinnati	B	32,009	-20.3	69.7	75.8	77.6	72.2	65.0	58.7	16.2	15.2	8.1
Cleveland	D	43,202	-40.2	>95.0	85.4	76.5	66.1	54.7	57.7	16.2	30.8	7.1
Cleveland Hts.-Univ. Hts.	C	5,907	-14.3	61.3	83.0	79.4	72.1	73.8	66.9	15.8	22.7	14.2
Columbus	C	49,616	-22.0	81.9	73.0	76.5	70.4	67.4	61.8	18.5	23.5	10.1
Dayton	C	14,174	-31.1	92.5	74.8	78.5	71.5	68.8	64.8	18.2	19.4	7.9
East Cleveland	D	3,182	-43.7	88.5	>95.0	69.1	62.6	64.6	61.6	23.9	22.9	10.2
Euclid	C	5,793	-4.3	66.0	83.6	77.1	76.8	68.6	72.8	16.9	16.4	7.3
Hamilton (Butler County)	C	9,444	<0.1	69.2	24.6	80.7	74.9	68.4	66.2	18.7	22.4	8.2
Lorain	C	7,585	-26.3	84.5	72.0	77.2	71.8	60.4	53.9	19.8	25.6	8.5
Springfield (Clark County)	B	7,398	-24.2	76.3	37.9	81.3	69.7	64.7	51.4	14.5	24.0	6.1
Toledo	C	22,277	-39.4	76.6	60.0	74.9	60.1	63.5	49.0	16.5	31.1	8.7
Warren	D	5,368	-20.9	75.2	53.8	79.0	71.2	63.0	65.5	15.5	18.8	5.3
Youngstown	D	6,088	-42.5	91.9	83.1	74.3	65.3	60.5	55.3	20.4	27.4	8.2
All Ohio public charter schools	-	113,698	-	75.0	60.8	-	-	50.6 (3)		27.2 (2,3)		13.7
E-charters	-	3,3052	-	64.7	21.0	-	-	44.2 (3)		129.9 (2,3)		30.8

Source: Ohio Department of Education; CRP analysis of ODE enrollment records

Note: District rating A+=Excellent with Distinction, A=Excellent, B=Effective, C=Continuous Improvement, D=Academic Watch, F=Academic Emergency.

(1) Public school district data in this table do not include the island districts or College Corner.

(2) Median of churn rates

(3) Churn rates for grades K-11 or K-12

(4) Among spring 2011 math achievement assessment test-takers in grades 3 to 8 reported by district (or charter school), the percentage whose scores were rolled up to state level; i.e., student was not continuously enrolled in district (or charter school) since last day of October for same academic year.

1.0 Introduction

1.1 What is student mobility?

Student mobility is the phenomenon of students in grades K-12 changing schools for reasons other than customary promotion from elementary school to middle school or from middle school to high school. This non-promotional school change can occur during the school year or in the summer between school years. It may involve residential change, school change, or both.

Students may change schools for reasons that are considered positive, such as when a family moves to a better school, neighborhood, or job. In fact, the current education policy environment sends a strong message to parents that school choice—which typically involves school change—is good. Community-based charter schools and school voucher programs are examples of school choice policy initiatives. The federal No Child Left Behind Act of 2001 (NCLB) requires that school districts provide students in schools identified as "In School Improvement," based on trends in proficiency test passage rates, with the opportunity to transfer to a school not designated as "In School Improvement."

1.2 The importance of understanding student mobility

Student mobility has consequences for schools, students, communities, and public policy. Research has found that students who change schools more frequently are likely to have worse educational outcomes. Highly mobile students are also more likely to be those with other risk factors—low income, special education, homelessness, or an unstable home environment. School changes worsen the learning and achievement problems of these at-risk children.

High student mobility puts a stress on teachers and administrators who must continually focus on incorporating new students into the building and classroom. Stable students in schools with high mobility also suffer from the disruptions to the classroom environment and the slower instructional pace necessary to accommodate new students. School districts face increased administrative costs from student mobility, including costs related to student records transfer and transportation.

There are community impacts of high student mobility that reach beyond the school. Neighborhoods and school districts with low performing schools and unstable school populations are disincentives to home ownership and economic development. Investments in school-based initiatives to improve attendance, academic achievement, and graduation rates are less effective if students move from school to school, dropping in and out of programs.

Finally, student mobility has important consequences for state and local education policy. A better understanding of how mobility impacts schools and students has implications for accountability measurement, education funding, and curriculum and instruction.

1.3 The Ohio Student Mobility Research Project

History of the project

In 2011, Community Research Partners (CRP) and the Thomas B. Fordham Institute (Fordham) entered into a partnership to conduct research on student mobility in Ohio. Fordham, a national leader in advancing educational excellence through quality research, commentary, and advocacy, wanted to build on their recent research on student mobility in the Dayton area and examine student mobility throughout the state. CRP brought to the project its experience in undertaking research on student mobility in the Columbus City Schools (CCS) and in processing and analyzing student-level records from the Ohio Department of Education (ODE).

In June 2011, Fordham provided CRP with a planning grant to develop a workable research plan. ODE provided CRP with student-records from the Education Management Information System (EMIS). Beginning with the 2008-2009 school year, EMIS has included unique student identifiers that enable tracking of individual students over time as they enter and exit public districts and public

charter schools in Ohio. With assistance from ODE staff in understanding and using the EMIS data, CRP analyzed student records for Franklin County districts. The outcome of the planning phase was a design for a large-scale study of student mobility in Ohio, to be conducted by CRP. Work on the project began in February 2012.

Project funders

The diverse set of project funders is indicative of the importance of the issue of student mobility. Funders are supporting the Ohio Student Mobility Research because of their interest in understanding: 1) the patterns of student mobility in Ohio or in a local community, 2) the impact of mobility on students and schools, and/or 3) the implications of mobility for state and local public policy. In addition to Fordham, funders include: The Siemer Institute for Family Stability, The Nord Family Foundation, The Cleveland Foundation, KnowledgeWorks, KidsOhio.org, American Federation of Teachers/Ohio Federation of Teachers, School Choice Ohio, United Way of Central Ohio, United Way of Greater Toledo, and The Columbus Foundation.

Research components

CRP and Fordham are not aware of other research that has examined student mobility at the scale, scope, and level of detail of the Ohio Student Mobility Research. The research employs descriptive and analytic statistics—presented in spreadsheets, visualizations, and reports—to provide a picture of student mobility for all Ohio public school districts and buildings and public charter schools, with in-depth analysis for five large urban regions (Columbus, Cleveland, Cincinnati, Dayton, Toledo).

The research also addresses several state policy issues of interest to Fordham: 1) open enrollment patterns, 2) "non-counters" profile (students whose test scores do not count in district performance ratings), and 3) monthly enrollment profiles of public districts. The project did not include collecting qualitative data from students, families, school personnel, or other stakeholders to determine why students change schools or the impact of student mobility.

About the data

As would be expected when undertaking such complex research, CRP made a number of decisions, in consultation with Fordham and ODE, about data analysis methods, definitions, and parameters. There are also a number of caveats about the data that are important to understand. These are described below.

The dataset

The dataset includes ODE EMIS files (student standing, student attributes, and student achievement tests) with 2.1 million unique students in grades K-12 during the 2009-10 and 2010-11 school years. (about five million instances of enrollment). The following were excluded from the analysis dataset:

- Non-instructional relationship between student and district, i.e. district provides only supportive services to student or has a residual reporting requirement for student

- Zero days in attendance over entirety of enrollment record

- Educational Service Centers

- Preschools and preschool students

- Foreign exchange students

- Kindergarten withdrawals

- Island Districts and College Corner, which are very small or geographically isolated

In school year 2010-11, the 1.79 million unique students included:

- 1.66 million students in 612 public school districts and 3,293 public school buildings

- 81,800 students in 313 "bricks and mortar," or physical, public charter schools

- 48,900 students in 26 accredited e-charters, a subset of charter schools

- 1,500 students in state schools for the deaf and blind

- 93,400 students in 71 vocational schools

Definitions

Charter schools. Ohio public charter schools (called "community schools" by ODE) include "bricks and mortar" schools that have school buildings and accredited e-charters, where teaching is done on-line. For brevity and clarity in this report, these two types of charter schools are referred to as: 1) *physical charter schools* and 2) *e-charter schools*.

School year. For most of the analysis, a school year is defined as beginning on October 1 (the official fall enrollment count date for Ohio schools) and ending on May 15. This was done to accommodate the various starting and ending dates of schools across the state.

Mobility-related terms. Report sections 3.0, 4.0, and 5.0 begin with definitions and other information related to the mobility measures used in this report.

Local context

The research scope and timeline did not include collecting information on unique situations in local districts or charter schools, not always evident in the EMIS dataset, which may contribute to or explain mobility rates and patterns. These may include: 1) competitive magnet or alternative schools that only admit students at the beginning of the school year, 2) school building demolition, renovation, or new construction that result in large numbers of students changing buildings; 3) starting, ending, or moving special programs (programs for students with disabilities, LEP students); 4) grade realignment (changing a school from K-5 to K-8); or 5) special purpose schools, (dropout recovery, welcome/transition schools) that by design involve students moving in and out throughout the year. CRP and Fordham hope that discussion of the research by local education stakeholders will provide this additional context for the data analysis.

Reliability of student identification numbers

This research is only possible because ODE has unique statewide student identifiers (SSID) that enable tracking students across public schools and districts. However, there is anecdotal evidence from district staff and others familiar with student recordkeeping that a new identifier is sometimes assigned to a student who enrolls in a new district. Because ODE records do not include student names, it was not possible for CRP to determine the extent to which this is happening; however, ODE data staff believes that it involves a very small number of cases.

The school attendance data controversy

As this report is being written, the State Auditor is examining student attendance data for districts across Ohio. It is alleged that some school staff withdrew students they knew to be still enrolled, deleted their absences, and then re-enrolled them, for the purpose of improving school ratings. This practice would increase a school's attendance rate, and only the test scores of students who have been continually enrolled from October through the spring proficiency test dates are counted in a school's overall test-passage rate.

This does not, however, impact the Ohio Student Mobility Research for the following reasons:

1. Student attendance records were not used for the research.

2. For the purposes of calculating building churn rates, a student who was withdrawn and then readmitted to the same building in less than 30 days was treated as continuously enrolled rather than as an exit/reentry event. It was assumed that this was an administrative action and not a school move.

3. Analysis of the relationship of mobility to proficiency test scores is based on individual student records. Building-level test passage rates were not used.

In addition, this research includes a profile of "non-counters"—students whose test scores do not count in building or district report cards—which can help to inform this important dialogue.

Caveats about accuracy

CRP has been very careful in collecting, analyzing and presenting data to prepare the Ohio Student Mobility Research Project report. However, the project did not include authenticating the data provided by ODE. If careful readers of the report discover data errors or typographical errors, CRP welcomes this feedback and will publish corrections to the report.

The Toledo Area Profile

This report is a mobility profile of students in the Toledo Area. It focuses on the mobility of Toledo Public Schools (TPS) students and how students move within the district and between and among 26 districts and 34 physical charter schools within an approximate 30 mile radius of TPS. The analysis includes:

- **Magnitude of mobility:** stability of students within districts and buildings (cohort stability) and numbers of movements into and out of districts and buildings (churn).

- **Mobility patterns:** origin and destination of movement between buildings and districts.

- **Mobility and students:** the relationship of mobility to student demographic characteristics and student achievement.

Additional data

- **Appendix.** Additional detailed data on student mobility for individual Toledo Area districts, buildings, and charter schools can be found in the appendix of this report.

- **Online spreadsheets.** Excel spreadsheets with mobility data for every public district, building, and charter school in Ohio can be found at: www.researchpartners.org.

- **Profile reports for other urban areas.** Profile reports for the Cleveland, Columbus, Cincinnati, and Dayton areas are available at: www.researchpartners.org.

2.0 The Toledo Area

The Toledo Area, as defined for the student mobility research, is the geographic area that includes all public school districts and all physical public charter schools within approximately 30-miles of the central district, Toledo Public Schools (the research does not include schools and students outside of Ohio) (Map 1; Table 1). Portions of the analysis also include students within the Toledo Area who attend e-charter schools.

For the purpose of data analysis, the 26 districts are divided into:

- **Ring 1**: districts adjacent to TPS and/or within Lucas County

- **Ring 2**: the remainder of the districts, which are farther from the TPS district

Most of the analysis in this report is focused on the central urban district and the Ring 1 districts; however data about all districts in the Toledo Area can be found in the appendix and in on-line spreadsheets at www.researchpartners.org.

Map 1. School districts in the Toledo Area
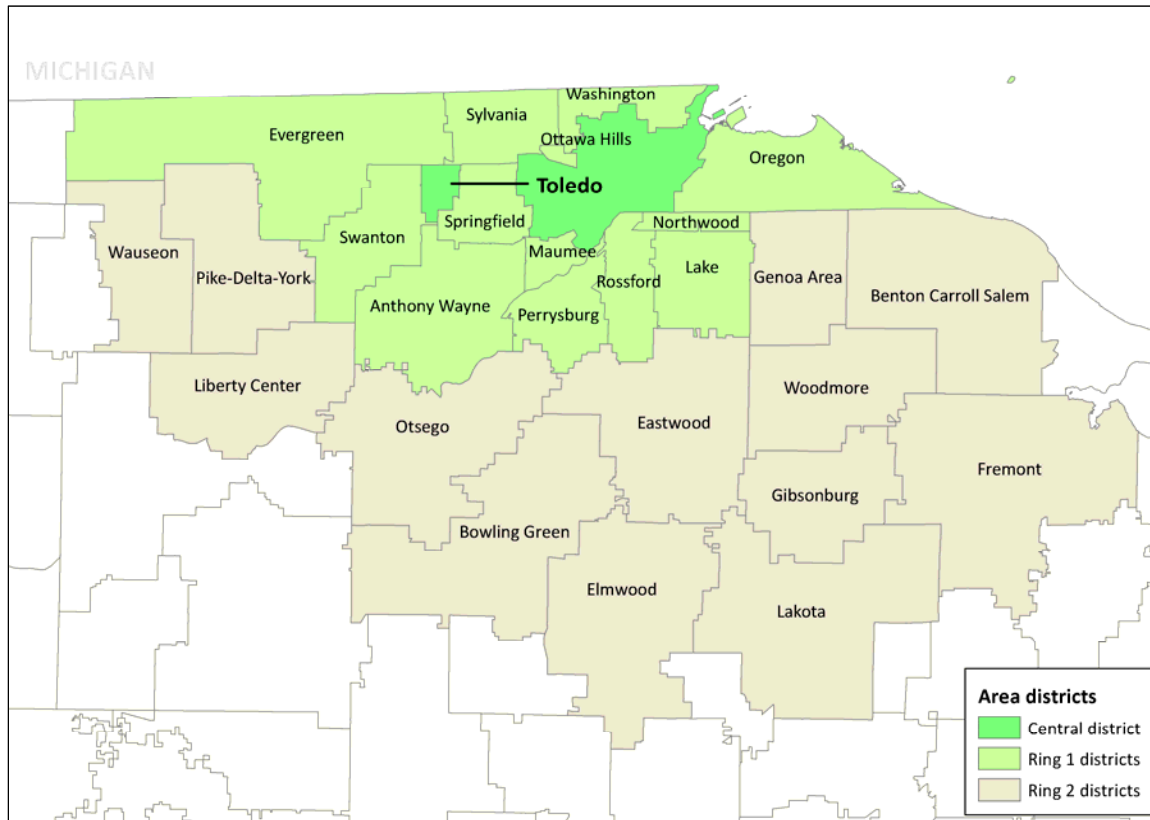
Note: In the maps of this report, district outlines are based on U.S. Census TIGER files.

Table 1. Number of public districts and school buildings in the Toledo Area, school year 2010–2011

	Public districts	Buildings in public districts	Public charter schools
Toledo Public Schools (TPS)	1	56	30
Ring 1 (districts within same county or adjacent to TPS)	13	76	3
Ring 2 (other districts within 30 miles of TPS)	13	57	1

Note: See Section 1 for types of schools included and excluded

2.1 Toledo Area schools at a glance

Toledo Public Schools: student characteristics

TPS is the fifth largest district in Ohio and has had a 39% loss in enrollment over ten years (Table 2). In school year 2010-11, nearly two-thirds of TPS students were a minority race or ethnicity, including 44.6% black, 8.8% Hispanic, and 0.6% Asian students. Three out of four students were economically disadvantaged (eligible for Free and Reduced Price Lunch Program); 0.03% were immigrants; 1.5% had limited English proficiency (LEP); and 16% had a disability. Of the more than 800 homeless students in Toledo Area districts in school year 2010, 40% were enrolled in TPS.

Among children ages 5–17 living within the TPS district boundaries, 8,101 (19.5%) lived in a different house than they did one year prior. About 1 in 5 children residing within the district and enrolled in grades 1–12 were enrolled in a private school. (American Community Survey 2010)

Other Toledo Area districts: student characteristics

The following are characteristics of the 26 Ring 1 and Ring 2 districts (excluding TPS) in the Toledo Area for school year 2010-2011 (Table 2 and Appendix):

- Two districts had economic disadvantage rates above 50% (Fremont and Washington).
- No districts had LEP rates above 5%.
- In no districts did minority students make up more than half of the student population.
- Springfield Local Local had the second largest number of homeless students (203) after TPS.

Table 2. Toledo Area: Student characteristics, school year 2010–2011

School district	Enrollment (1)	Enrollment change since SY 2001 (%)	Economic disadvantage (%)	Minority (%)	Limited English Prof. (%)	Homeless
All districts in Toledo Area	86,552	-14.5	44.4	27.1	1.1	841
All Ring 1 districts	63,888	-16.8	46.7	31.4	1.2	713
Toledo	22,277	-39.4	76.6	60.0	1.5	338
Sylvania	7,312	-3.4	18.0	14.4	1.6	-
Washington	6,618	-4.1	53.3	22.1	1.3	-
Perrysburg	4,597	13.2	12.0	11.9	0.8	-
Anthony Wayne	4,348	32.8	12.9	8.0	0.3	-
Springfield Local-Lucas County	3,958	17.6	36.2	31.1	1.0	203
Oregon	3,875	7.2	41.0	15.7	0.5	134
Maumee	2,688	-6.7	31.7	16.0	0.9	21
Rossford	1,852	-4.0	46.4	10.9	0.0	-
Lake-Wood County	1,674	-1.2	38.7	15.8	1.4	-
Swanton	1,371	-12.1	43.5	7.4	0.0	17
Evergreen	1,328	4.6	29.4	8.4	0.0	-
Northwood	1,013	7.7	42.6	15.1	0.0	-
Ottawa Hills	977	1.2	NA	15.7	1.3	-
All Ring 2 districts	22,664	-7.3	37.9	15.3	1.1	128
Toledo Area physical charter schools	10,159	-	69.8	72.4	-	-
Toledo Area students in e-charter schools	1,148	-	62.5	28.1	-	-

Source: Ohio Department of Education

Note: (1) For e-charters, enrollment is October 1 enrollment of students residing in Toledo Area districts; for all other districts, figure is average daily enrollment.

Toledo Area districts: school performance designations

ODE assigns annual report card ratings to school buildings and districts based on student performance and progress. In this report, rating letters of A+ to F are used to represent the six-level state performance designation system for school districts and buildings (Map 2 legend).

- Among the 27 Toledo Area districts, 20 had the two highest designations (Excellent or Excellent with Distinction) for school year 2010–2011. No districts had the lowest two designations of Academic Watch or Academic Emergency.

- TPS had a rating of Continuous Improvement, as did 8 of the other 15 Major Urban school districts (see Table i) in Ohio. Only Springfield Local City and Cincinnati City were more highly rated).

- Of the 56 TPS school buildings in operation, none had the highest state report card designation, while five had the second highest designation. Nineteen had the two lowest designations.

Map 2. Toledo Area districts: ODE report card designations, school year 2010–2011
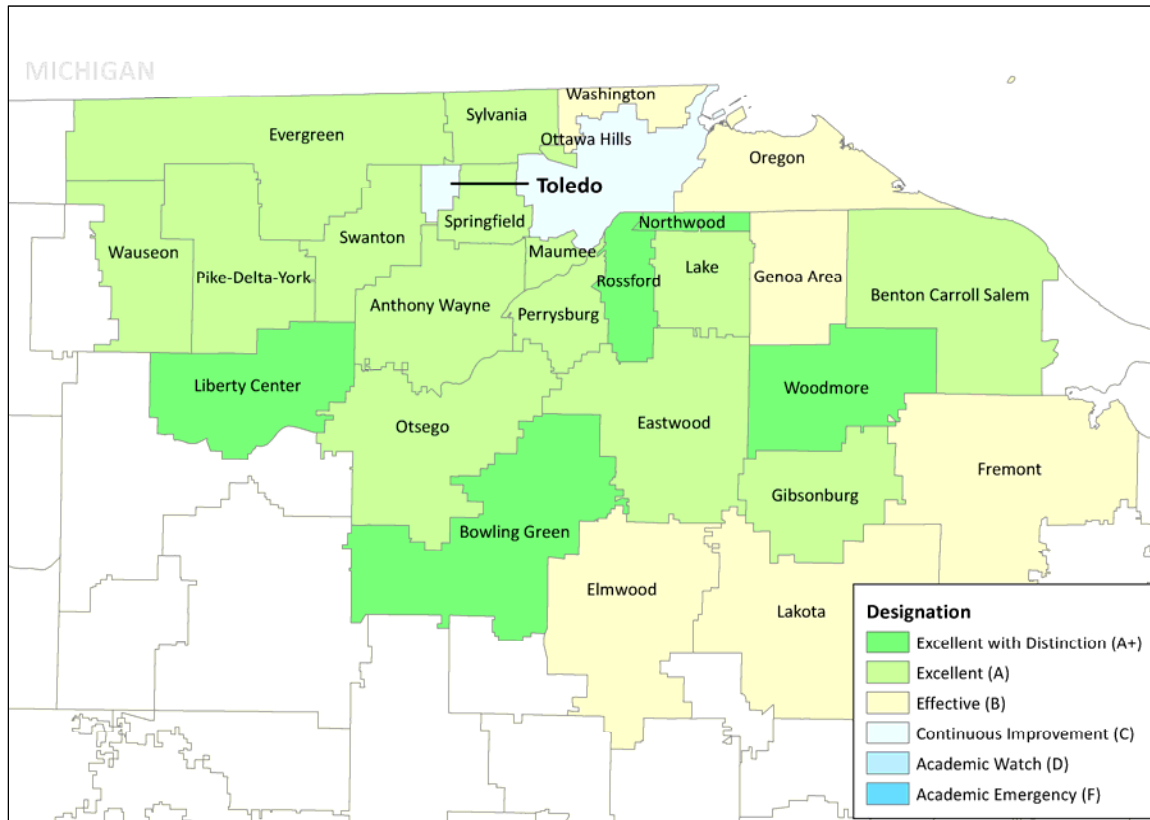
Source: Ohio Department of Education

Voucher holders

The Ohio Educational Choice Scholarship Program (EdChoice) provides students from underperforming public schools with the opportunity to attend participating private schools. Students currently attending—or who will be assigned to—a public school in their resident district that has been rated in Academic Emergency or Academic Watch for two of the past three years are eligible to apply. Students currently attending a charter school whose home school is an eligible school are also eligible.

In school year 2010-2011, there were 1,639 voucher holders whose district of residence was a Toledo Area district. All were residents of the TPS district.

Vouchers were used at 24 Toledo Area private schools (Table 3). These figures were prior to adoption of the state 2011-2012 budget, which tripled the number of vouchers available to Ohio students.

Table 3. School of attendance of Toledo Area EdChoice voucher holders, school year 2010–2011

School of attendance of voucher holders	Number of vouchers	School of attendance of voucher holders	Number of vouchers
Central Catholic	329	St Ursula Academy	34
CCMT Catholic School	278	Our Lady Of Perpetual Help	28
Toledo Christian	132	St Pius X	21
Gesu	129	St Catherine	20
Emmanuel Christian School	89	St John	19
Blessed Sacrament	80	Zion Lutheran	15
Notre Dame Academy	71	Regina Coeli	14
Cardinal Stritch High/Kateri Catholic Academy Oregon Campus	70	Mary Immaculate	13
St Patrick Of Heatherdowns	65	Christ The King	< 10
St Francis De Sales	63	St Joan of Arc	< 10
St John's Jesuit	52	St. Benedict Catholic School	< 10
Toledo Islamic Academy	41	Toledo Junior Academy	< 10

Source: Ohio Department of Education

3.0 Magnitude of mobility

3.1 Section overview and key concepts

This section of the report examines how many students change schools, both during the school year and between school years. The school year is defined as the period from October 1 (the date that districts report enrollment to ODE) and May 15. Promotional moves (elementary to middle school; middle school to high school) are not included in these calculations. The magnitude of mobility is measured in two ways: (1) cohort stability and (2) churn. Both are calculated at the district and building levels.

This report provides an overview of the magnitude of mobility in Toledo Area schools. Additional cohort stability and churn data for districts, buildings, and charter schools can be found in the Appendix and in online spreadsheets www.researchpartners.org.

Cohort stability: measures retention of students over time

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

- **School District Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same district at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

- **School Building Cohort Stability**: The number and percent of students enrolled on October 1, 2009, who remained continuously enrolled in the same building at three subsequent points in time: May 15, 2010; October 1, 2010; and May 15, 2011.

Data notes

- A student who changed buildings within a district over two school years, but remained consistently enrolled in the district, is considered a stable student in the district-level stability calculation.

- Some building cohort instability is the result of changes in district programming that moves groups of students (e.g. LEP students) from one building to another.

- The analysis did not capture students who moved out of, and back into, a district or building during a school year (between October 1 and May 15)

Churn rate: measures movements into and out of a building or district

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during two school years?

- **District churn rate:** The sum of all instances of district admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school year 2010-2011.

- **Building churn rate:** The sum of all instances of building admissions and withdrawals that occur after October 1 and before May 15, as a percent of October 1 student enrollment for school years 2010-2011.

Data notes

- A student's building enrollment Start Date that was fewer than 30 days following the Withdrawal Date from the same building was treated as continuous enrollment rather than an exit/reentry event.

- Because churn measures moves, individual students can be counted multiple times, each time they leave a district or building, and each time they enter a district or building, during a school year.

3.2 Student cohort stability

How many students from an October 1 cohort remained continuously enrolled in a building or district over two school years?

School district stability for Toledo Area districts grades K-7

In the least stable Toledo Area districts, about one of every three students in a school at the beginning of a school year is not in that same building at the end of a second school year. The most stable districts lose fewer than one in ten students.

Toledo Public Schools

- Of the TPS October 2009 grades K–7 cohort, 74.9% of the students remained in the district over two years, and 63.5% remained in the same TPS building over two-years (Map 3).

- Compared to the 15 districts designated as Major Urban by ODE, TPS had the 3rd lowest district K–7 stability rate (Table i). Canton City School was most stable, with a rate of 82.0%, while East Cleveland Schools were the least stable, with a rate of 69.1%

Other Toledo Area districts

- Other than Toledo, no other Toledo Area Ring 1 district that had a grades K-7 district stability rate below 70%. Ottawa Hills, Oregon, Anthony Wayne, Perrysburg, Maumee, and Sylvania were the most stable districts, with district stability rates of 90% or above.

- Among Toledo Area districts with 50% or more economically disadvantaged students, Fremont had the highest district stability rate (87.1%) and building stability rate (77.8%) for grades K–7.

Table 4. Toledo Area Ring 1 Districts: Two-year district and building stability for grades K–7

Districts	District Rating	District stability		Building stability (1)	
		October 2009 district cohort	In same district May 2011 (%)	October 2009 building cohort	In same building May 2011 (%)
Ottawa Hills	A	598	95.3	513	95.1
Oregon	B	2,358	92.0	2,059	89.7
Anthony Wayne	A	2,745	91.5	2,034	89.4
Evergreen	A	735	89.8	658	89.4
Swanton	A	800	89.5	609	89.3
Perrysburg	A	2,860	91.5	2,507	89.3
Maumee	A	1,501	90.5	1,315	89.2
Sylvania	A	4,301	91.3	3,763	88.9
Northwood	A+	538	89.0	398	88.7
Lake	A	973	88.8	726	88.2
Rossford	A+	1,070	85.8	959	83.2
Springfield Local	A	2,474	83.8	2,159	79.9
Washington	B	3,908	86.4	3,188	67.7
Toledo	C	16,317	74.9	14,423	63.5

Source: CRP analysis of ODE enrollment records

(1) Excluded from the building cohort are students who would be expected to be promoted to a different building in year 2.
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Map 3. Toledo Area: Two-year building stability rate for grades K–7, October 2009–May 2011

Source: CRP analysis of ODE enrollment records.

School district stability grades 8–11

Toledo Public Schools

- TPS district and building two-year stability rates (60.1% and 49.0%, respectively) for grades 8–11 were lower than corresponding stability rates for grades K–7 (Table 5).

- Compared to the 15 districts designated as Major Urban by ODE, TPS had the lowest district grades 8-11 stability rate (Table i). Canton City Schools were the most stable, with a rate of 80.2%.

Other Toledo Area districts

- No Toledo Area Ring 1 district had a district stability rate for grades 8-11 that was below 75%. Ottawa Hills and Sylvania had grades 8-11 district stability rates of 90% or greater.

- Of the Ring 2 districts, none had district stability rates for grades 8-11 that were below 75%, and there were also no Ring 2 districts with grades 8-11 stability rates above 90%.

Table 5. Toledo Area Ring 1 Districts: Two-year district and building stability for grades 8–11

Districts	District rating	District stability		Building stability (1)	
		October 2009 district cohort	In same district May 2011 (%)	October 2009 building cohort	In same building May 2011 (%)
Ottawa Hills	A	310	93.2	310	93.2
Sylvania	A	2,490	90.4	1,892	90.4
Anthony Wayne	A	1,346	88.7	962	88.5
Perrysburg	A	1,332	87.9	980	88.0
Oregon	B	1,240	86.9	928	85.3
Evergreen	A	401	86.3	305	83.3
Washington	B	2,114	82.3	1,584	81.4
Maumee	A	891	82.9	644	80.0
Swanton	A	413	79.4	312	77.2
Rossford	A+	539	79.8	379	74.7
Lake-Wood County	A	490	78.4	338	73.7
Northwood	A+	315	76.5	230	73.0
Springfield Local	A	1,062	76.1	772	72.3
Toledo	C	7,908	60.1	5,668	49.0

Source: CRP analysis of ODE enrollment records

(1) Excluded from the building cohort are students who would be expected to be promoted to a different building in year 2.

Map 4. Toledo Area: Two-year building stability rate for grades 8–11, October 2009–May 2011
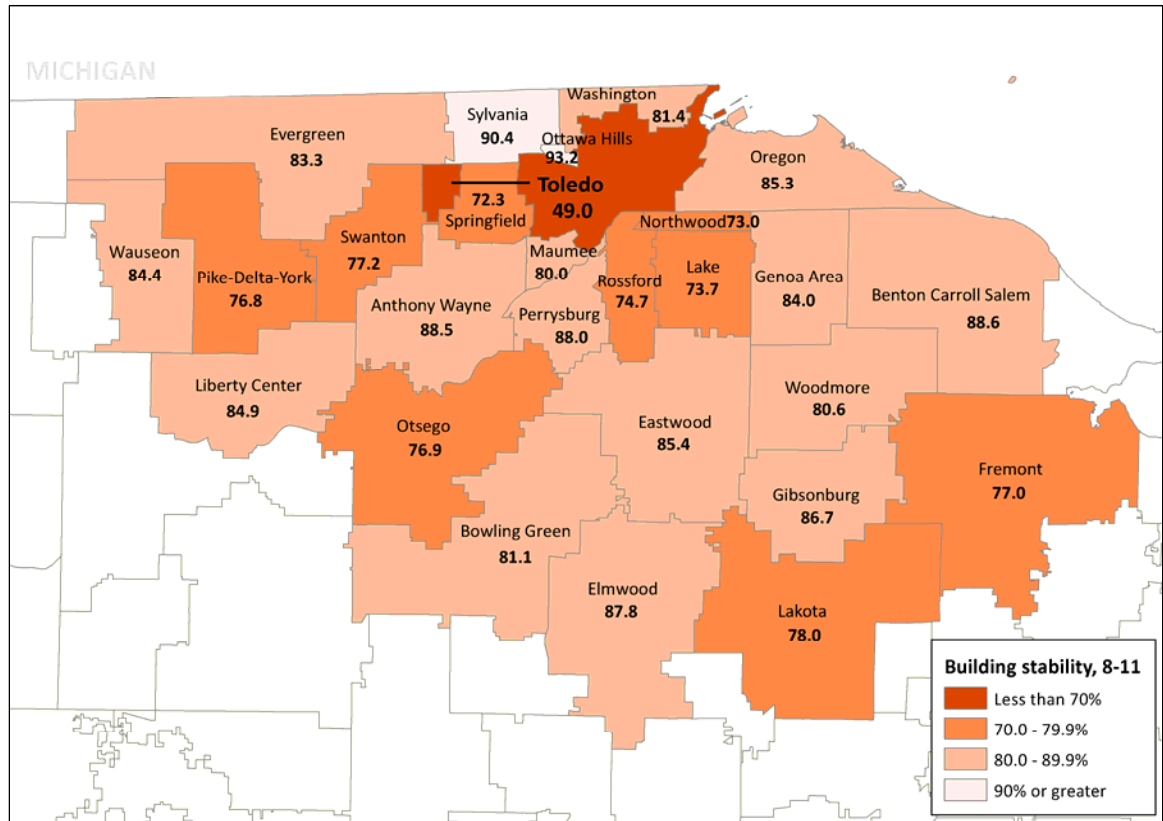
Source: CRP analysis of ODE enrollment records

Building stability for Toledo Public Schools

TPS building stability rates range from 80% or more for the most stable schools (Table 6), to less than 50% for the least stable schools (Table 7).

Table 6. TPS: 30 *most stable* school buildings, October 2009–May 2011

School building	Grade range	Rating	Oct. 2009 cohort	In same building, May 2011 (%)
Ottawa River Elementary School	K-8	B	405	89.1
Beverly Elementary School	K-6	A	297	81.5
Old West End Academy Elementary School	K-8	B	286	81.1
Toledo Technology Academy High School	9-12	A	139	80.6
Harvard Elementary School	K-6	B	338	80.5
Grove Patterson Academy Elementary School	K-8	B	354	79.4
Byrnedale Middle School	7-8	C	283	76.7
Elmhurst Elementary School	K-5	A	312	75.0
Hawkins Elementary School	K-5	C	371	72.8
Arlington Elementary School	K-6	B	374	72.2
Crossgates Elementary School	K-6	B	333	72.1
Oakdale Elementary School	K-6	C	411	71.8
Longfellow Elementary School	K-5	B	505	70.9
Toledo Early College High School	9-12	A	178	69.7
Burroughs Elementary School	K-6	C	381	69.6
Birmingham Elementary School	K-8	C	316	68.4
Whittier Elementary School	K-5	C	441	67.6
DeVeaux Middle School	6-8	C	672	67.4
Riverside Elementary School	K-6	D	346	67.3
Ella P. Stewart Academy for Girls	K-5	D	178	66.9
Larchmont Elementary School	K-6	B	322	65.8
Raymer Elementary School	K-6	C	403	65.8
Bowsher High School	9-12	B	1,027	64.6
Edgewater Elementary School	K-5	B	190	64.2
Glendale-Feilbach Elementary School	K-6	C	398	63.8
East Broadway Middle School	7-8	C	241	63.1
Navarre Elementary School	K-6	C	362	62.4
Robinson Middle School	6-8	F	291	61.2
Old Orchard Elementary School	K-5	B	194	60.8
Garfield Elementary School	K-6	C	360	60.3

Source: CRP analysis of ODE enrollment records

Note: Table 6 is limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Table 7. TPS: 30 *least stable* school buildings, October 2009–May 2011

School building	Grade range	Rating	Oct. 2009 cohort	In same building, May 2011 (%)
Navarre Elementary School	K-6	C	362	62.4
Robinson Middle School	6-8	F	291	61.2
Old Orchard Elementary School	K-5	B	194	60.8
Garfield Elementary School	K-6	C	360	60.3
Leverette Middle School	7-8	D	222	59.0
McKinley Elementary School	K-5	C	260	58.1
McTigue Middle School	6-8	D	379	57.5
Pickett Elementary School	K-5	F	288	56.6
Start High School	9-12	A	1,207	55.6
Sherman Elementary School	K-6	F	325	54.2
Marshall Elementary School	K-5	D	200	54.0
Chase STEM Academy	K-6	C	193	53.4
Keyser Elementary School	K-5	D	303	52.8
Glenwood Elementary School	K-5	F	223	52.5
Waite High School	9-12	C	920	51.6
East Side Central Elementary School	K-6	C	400	51.5
Reynolds Elementary School	K-5	D	405	51.4
Westfield Elementary School	K-5	D	279	49.8
Walbridge Elementary School	K-5	B	214	49.5
Lagrange Elementary School	K-6	F	292	48.3
Rosa Parks Elementary School	K-5	F	226	46.9
Spring Elementary School	K-6	F	303	46.2
Rogers High School	9-12	B	829	45.6
Woodward High School	9-12	D	664	45.5
Samuel M. Jones at Gunckel Park Middle School	6-8	F	275	42.9
Fulton Achievement Center	1-12	NA	140	42.1
Business Technology and Industry Academy	9-12	F	14	28.6
Martin Luther King Academy for Boys Elementary School	K-5	C	235	18.7
Allied Health Academy	9-12	F	19	5.3
Scott High School	9-12	NA	568	1.4

Source: CRP analysis of ODE enrollment records

Note: Table 7 is limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Stability for charter schools

Stability rates for many of the public charter schools in the Toledo Area were low (Table 8). Only six of the largest charter schools had stability rates of 70% or more, while 16 schools had rates of less than 50%. The least stable charter schools are primarily dropout recovery schools

Table 8. Toledo Area: Stability rates for charter schools, October 2009–May 2011

School *e-charters in italics* *Dropout recovery school (District location if other than CCS)	Grade range	Rating	Econ. disadv. (%)	Oct. 2009 cohort	In same building, May 2011 (%)
The Autism Academy Of Learning	K-12	NA	80.6	43	93.0
Autism Model School (Washington)	K-12	NA	47.8	79	88.6
Toledo School For The Arts	6-12	A	35.4	457	87.5
Madison Avenue School of Arts	K-5	D	55.2	312	75.3
Bennett Venture Academy	K-8	C	80.2	650	72.9
Summit Academy Secondary School - Toledo	8-12	D	79.0	66	72.7
Wildwood Environmental Academy (Springfield Local)	K-12	C	50.4	156	69.2
Eagle Academy	K-12	D	52.0	223	69.1
Clay Avenue Community School	K-12	D	67.1	330	67.0
Summit Academy Community School-Toledo	K-10	F	76.9	162	65.4
Winterfield Venture Academy	K-8	D	91.9	586	64.7
Imani Learning Academy	K-8	D	84.9	152	62.5
Central Academy of Ohio	K-12	C	98.3	52	61.5
Alternative Education Academy	K-12	D	62.1	99	60.6
Knight Academy	5-8	C	41.4	78	59.0
Horizon Science Academy Toledo	K-12	C	73.7	248	58.9
Ohio Connections Academy, Inc	K-12	B	53.7	85	57.6
Toledo Preparatory Academy	6-12	F	-	86	57.0
Ohio Virtual Academy	K-12	B	58.4	708	56.1
L. Hollingworth School for Talented and Gifted	K-8	C	88.5	84	54.8
Electronic Classroom Of Tomorrow	K-12	C	75.3	247	52.6
Buckeye OnLine School for Success	K-12	C	56.1	87	51.7
Lake Erie Academy	K-8	F	94.7	148	50.7
Aurora Academy	K-8	C	97.9	140	48.6
Horizon Science Academy-Springfield Local	K-12	B	87.4	241	47.3
Toledo Preparatory and Fitness Academy	K-8	A	89.1	111	46.8
Bridge Academy of Ohio	K-5	C	84.8	92	44.6
Star Academy of Toledo	K-12	C	94.1	204	41.2
*Treca Digital Academy**	K-12	D	70.2	71	40.8
Meadows Choice Community	K-9	D	93.6	172	39.0
The Maritime Academy of Toledo	5-12	D	74.7	212	34.4
Polly Fox Academy Community School*	7-12	F	96.9	69	30.4
Achieve Career Preparatory Academy*	9-12	F	97.1	181	26.5
Victory Academy of Toledo	K-8	F	95.3	145	23.4
Phoenix Academy Community School*	7-12	F	26.5	382	21.7
Eagle Learning Center (Oregon)*	9-12	F	-	100	15.0
Life Skills Center Of Toledo*	9-12	D	92.3	213	9.9
Glass City Academy*	11-12	C	-	105	7.6
Northpointe Academy	K-12	D	-	69	0.0

Source: CRP analysis of ODE enrollment records

Note: Table 8 is limited to charter schools with average daily enrollment of at least 50 students in school year 2010-2011, and in operation during both school years 2009-2010 and 2010-2011.

3.3 Churn rate

What is the number and rate of total school year moves (admissions and withdrawals) for each district and building during a school year?

District churn rate for Toledo Area districts

There were more than 8,000 admissions to and withdrawals from schools in the 14 Toledo Area Ring 1 districts during the 2010-2011 school year. For most of these districts, churn in grades K-8 resulted in a net gain of students (more admissions than withdrawals), while the churn in grades 9-12 produced a net loss of students (more withdrawals than admissions).

Toledo Public Schools

- Among all of the Toledo Area Ring 1 districts, TPS had the greatest gap between the grades K–8 churn rate (16.5%) and the rate for grades 9–12 (31.1%) (Table 9).

- Compared to the 15 districts designated as Major Urban by ODE (Table i), TPS had the 8th highest grades K–8 churn rate and the highest grades 9–12 churn rate. Akron City Schools had the lowest grades K–8 churn rate (12.3%), while East Cleveland City Schools had the greatest churn, with a rate of 23.9% for grades K–8. Cincinnati City Schools had the lowest churn rate for grades 9–12 (15.2%).

Other Toledo Area Districts

- No Ring 1 districts had churn rates of more than 20% for either grades K–8 or grades 9–12. Ottawa Hills and Anthony Wayne had churn rates of less than 5% for grades K–8 and grades 9–12.

- In the Toledo Area (Rings 1 and 2), more than half of all districts (16 of 27) have a higher churn rate for grades K–8 than for grades 9–12 (see Maps 5 and 6).

Table 9. Toledo Area Ring 1 Districts: One-year churn rates, grades K-8 and 9-12, school year 2010–2011

District	Grades K–8				Grades 9–12				K-12 churn rate (%)
	Oct. 2010 enroll.	Admits	With-drawals	Churn rate (%)	Oct. 2010 enroll.	Admits	With-drawals	Churn rate (%)	
Ottawa Hills	694	17	9	3.7	305	3	8	3.6	3.7
Anthony Wayne	3,033	76	72	4.9	1,299	26	32	4.5	4.8
Sylvania	4,954	137	133	5.5	2,496	40	86	5.0	5.3
Perrysburg	3,243	103	96	6.1	1,273	12	34	3.6	5.4
Evergreen	830	28	25	6.4	385	5	13	4.7	5.8
Oregon	2,656	92	71	6.1	1,252	21	79	8.0	6.7
Northwood	651	23	21	6.8	270	11	9	7.4	6.9
Maumee	1,737	77	53	7.5	850	18	51	8.1	7.7
Lake	1,109	51	54	9.5	423	16	17	7.8	9.0
Rossford	1,233	81	55	11.0	489	14	23	7.6	10.0
Swanton	906	50	40	9.9	395	24	32	14.2	11.2
Springfield Local	2,776	162	192	12.8	966	41	61	10.6	12.2
Washington	4,552	265	278	11.9	2,088	103	226	15.8	13.1
Toledo	17,068	1,044	1,768	16.5	6,781	492	1,618	31.1	20.6
Total Ring 1	*45,442*	*2,206*	*2,867*		*19,272*	*826*	*2,289*		

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2010–2011.

Less churn ↑

More churn ↓

Maps 5 and 6. Toledo Area: One-year district churn rate for grades K–8 and 9–12, school year 2010–2011
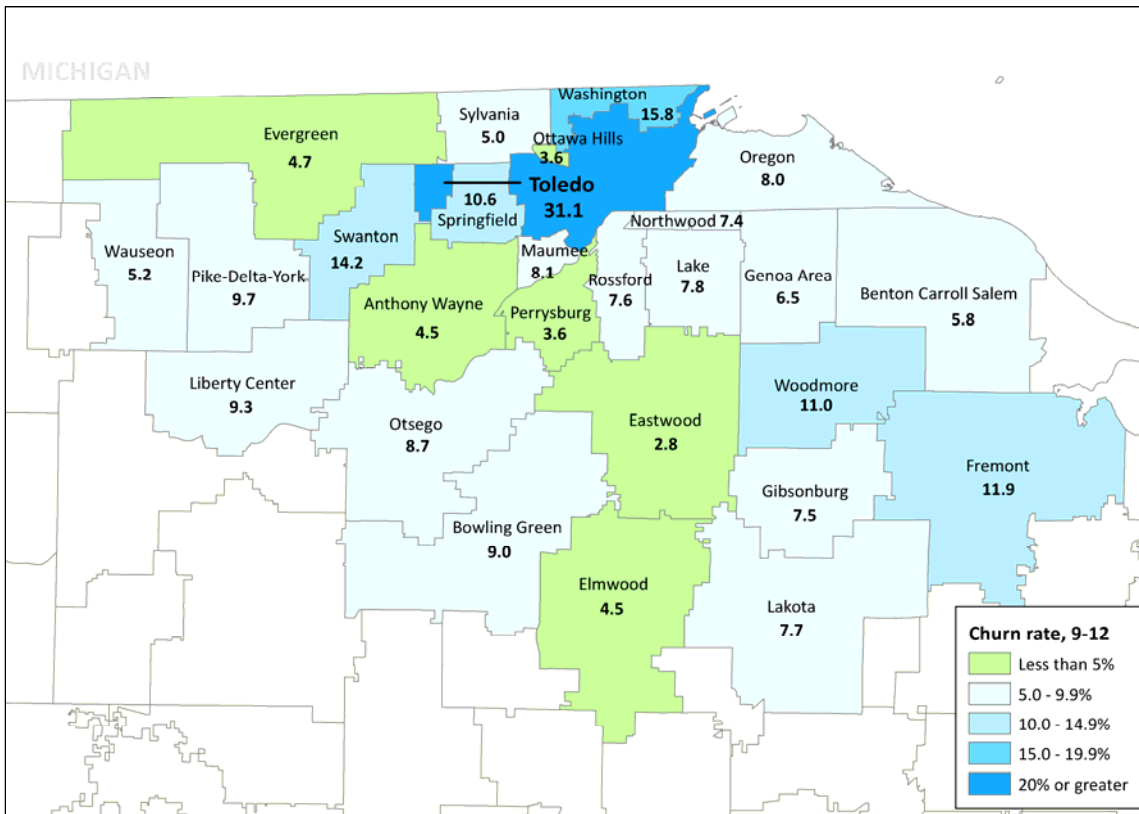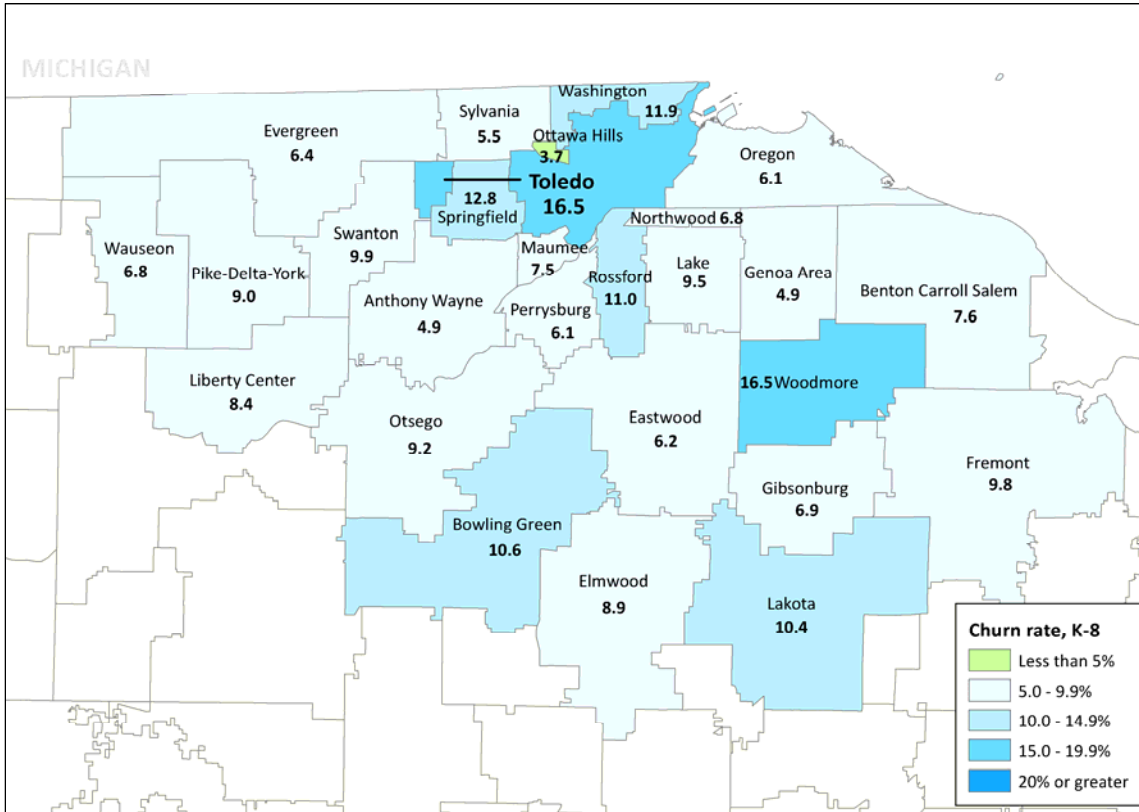
Source: CRP analysis of ODE enrollment records

Building churn rate for Toledo Public Schools

The TPS schools with the lowest churn rates are specialty or magnet schools (Table 10). TPS buildings with the highest churn rates have school year admissions and withdrawals equivalent to one-third to more than one-half of total enrollment (Table 11).

Table 10. TPS: 25 *lowest* building churn rates, school year 2010–2011

School building	Grade range	Rating	Econ. Disadv. (%)	Oct. 2010 enroll.	Churn rate (%)
Grove Patterson Academy Elementary School	K-8	B	49.1	382	3.9
Allied Health Academy	9-12	F	86.3	263	4.2
Old West End Academy Elementary School	K-8	B	76.2	293	5.1
Toledo Early College High School	9-12	A	44.3	202	5.4
Business Technology and Industry Academy	9-12	F	85.5	290	8.3
Ottawa River Elementary School	K-8	B	58.8	487	8.8
Elmhurst Elementary School	K-5	A	31.8	354	9.6
Harvard Elementary School	K-6	B	49.7	395	9.9
Toledo Technology Academy High School	9-12	A	51.5	181	10.5
Whittier Elementary School	K-5	C	75.9	499	14.0
Beverly Elementary School	K-6	A	34.7	338	14.8
Glendale-Feilbach Elementary School	K-6	C	66.0	438	14.8
Longfellow Elementary School	K-5	B	71.8	579	15.4
Oakdale Elementary School	K-6	C	86.7	449	16.9
Burroughs Elementary School	K-6	C	83.0	437	18.3
Crossgates Elementary School	K-6	B	53.5	390	18.5
Edgewater Elementary School	K-5	B	79.1	192	19.8
Arlington Elementary School	K-6	B	76.6	429	20.0
Byrnedale Middle School	7-8	C	63.0	578	20.1
Larchmont Elementary School	K-6	B	65.9	409	20.8
Old Orchard Elementary School	K-5	B	81.6	235	23.4
DeVeaux Middle School	6-8	C	71.8	851	23.5
Hawkins Elementary School	K-5	C	65.7	469	25.4
Birmingham Elementary School	K-8	C	94.7	334	25.7
Bowsher High School	9-12	B	50.8	1,430	27.3

Source: CRP analysis of ODE enrollment records

Note: Tables 10 and 11 are limited to school buildings with average daily enrollment of at least 50 students in school year 2010–2011.

Table 11. TPS: 25 *highest* building churn rates, school year 2010–2011

School building	Grade range	Rating	Econ. Disadv. (%)	Oct. 2010 enroll.	Churn rate (%)
Leverette Middle School	7-8	D	98.6	405	33.8
Garfield Elementary School	K-6	C	90.7	353	34.3
McTigue Middle School	6-8	D	78.4	534	34.6
East Broadway Middle School	7-8	C	91.4	459	35.1
Navarre Elementary School	K-6	C	94.9	429	35.7
Start High School	9-12	A	51.8	1,390	36.5
Woodward High School	9-12	D	84.3	760	36.8
Rosa Parks Elementary School	K-5	F	96.6	252	36.9
Marshall Elementary School	K-5	D	97.2	206	37.9
Riverside Elementary School	K-6	D	98.7	385	38.4
Rogers High School	9-12	B	60.9	836	39.5
Martin Luther King Academy for Boys Elementary	K-5	C	97.9	243	41.6
Chase STEM Academy	K-6	C	94.1	196	42.3
Waite High School	9-12	C	81.4	1,152	43.0
Pickett Elementary School	K-5	F	99.1	372	43.8
Walbridge Elementary School	K-5	B	96.5	245	48.6
Glenwood Elementary School	K-5	F	97.6	300	50.0
East Side Central Elementary School	K-6	C	95.8	392	50.0
Lagrange Elementary School	K-6	F	99.3	281	51.2
Sherman Elementary School	K-6	F	98.9	343	51.6
Spring Elementary School	K-6	F	98.4	310	51.6
Samuel M. Jones at Gunckel Park Middle School	6-8	F	97.5	354	54.5
Westfield Elementary School	K-5	D	99.0	275	61.1
Fulton Achievement Center	1-12	NA	92.8	105	72.4
Scott High School	9-12	NA	84.0	205	149.3

Building churn rate for physical charter schools

Physical charter schools in the Toledo Area (Table 12) range from very high—primarily dropout recovery schools—to those with rates below 15%. Overall, many of these schools are more stable than are TPS schools

Table 12. Toledo Area: Churn rates for physical charter schools, school year 2010–2011

School (District location if other than TPS) *Dropout recovery school	Grade range	Rating	Econ. disadv. (%)	Oct. 2010 enroll.	Churn rate
Toledo School For The Arts	6-12	A	35.4	542	1.5
The Autism Academy Of Learning	K-12	NA	80.6	53	1.9
Autism Model School (Washington)	K-12	NA	47.8	89	7.9
Central Academy of Ohio	K-12	C	98.3	61	8.2
Madison Avenue School of Arts	K-5	D	55.2	406	8.6
Summit Academy Secondary School - Toledo	8-12	D	79.0	79	8.9
Bennett Venture Academy	K-8	C	80.2	739	10.6
Imani Learning Academy	K-8	D	84.9	186	10.8
Bridge Academy of Ohio	K-5	C	84.8	90	11.1
Clay Avenue Community School	K-12	D	67.1	354	11.6
Summit Academy Community School-Toledo	K-10	F	76.9	164	12.8
Winterfield Venture Academy	K-8	D	91.9	619	15.3
Horizon Science Academy-Springfield Local	K-12	B	87.4	251	16.7
Aurora Academy	K-8	C	97.9	143	18.9
Wildwood Environmental Academy (Springfield Local)	K-12	C	50.4	290	19.0
Toledo Preparatory and Fitness Academy	K-8	A	89.1	97	21.6
L. Hollingworth School for Talented and Gifted	K-8	C	88.5	183	22.4
Eagle Academy	K-12	D	52.0	287	23.3
Northpointe Academy	K-12	D	-	284	23.6
Horizon Science Academy Toledo	K-12	C	73.7	273	26.7
Knight Academy	5-8	C	41.4	191	27.2
The Maritime Academy of Toledo	5-12	D	74.7	225	28.9
Meadows Choice Community	K-9	D	93.6	155	40.6
Star Academy of Toledo	K-12	C	94.1	186	43.0
Lake Erie Academy	K-8	F	94.7	207	45.4
Toledo Preparatory Academy	6-12	F	-	107	49.5
Victory Academy of Toledo	K-8	F	95.3	100	63.0
Achieve Career Preparatory Academy*	9-12	F	97.1	236	72.9
Polly Fox Academy Community School*	7-12	F	96.9	127	96.9
Glass City Academy*	11-12	C	-	166	134.9
Eagle Learning Center (Oregon)*	9-12	F	-	120	135.0
Phoenix Academy Community School*	7-12	F	26.5	717	138.6
Life Skills Center Of Toledo*	9-12	D	92.3	190	180.5

Source: CRP analysis of ODE enrollment records

Note: Table 12 is limited to charter schools with average daily enrollment of at least 50 students in school year 2010-2011.

4.0 Mobility patterns

4.1 Section overview and key concepts

This section of the report examines the patterns of student movement between school districts and buildings and between public districts and charter schools, as well as the characteristics of origin and destination schools. The analysis of mobility patterns includes: (1) district and building mobility patterns, (2) report card ratings of origin and destination schools, and (3) inter-district open enrollment analysis.

> *This report provides an overview of mobility patterns among Toledo Area schools. Additional mobility pattern data for districts, buildings, and charter schools can be found in the Appendix and online spreadsheets www.researchpartners.org.*

Mobility patterns: districts and buildings that exchange students

How many unique students did pairs of buildings or districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts and buildings?

- **District mobility patterns:** The number of unique students enrolled in two school districts, or a district and a charter school, at some point over two school years (2009-2010 and 2010-2011).
- **Building mobility patterns:** The number of unique students enrolled in two school buildings at some point over two school years (2009-2010 and 2010-2011), including buildings within the same district and buildings in different districts

Data notes

- The mobility patterns analysis includes all combinations of: public school districts and buildings, physical charter schools, and e-charter schools. Vocational schools are excluded. A small percentage of results from dual enrollment; however, most involve non-overlapping enrollment periods.
- A student is counted only once, even if they move between a pair of schools more than once.

Origin and destination ratings: report card rating of schools that exchange students

What is the performance rating of the destination school of mobile students, compared to that of the school of origin?

- **Origin and destination performance ratings:** The school year 2010-2011 state report card rating of the origin and destination schools for the most recent move of students who changed schools during a two school year period (2009-2010 and 2010-2011).

Data notes

- Statewide, 20% of students who withdraw from an Ohio public school have no enrollment destination information in EMIS the following October.

Inter-district open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

- **Open enrollment, incoming:** Number and percent of students attending a school in a district through open enrollment policy.
- **Open enrollment, outgoing:** Number and percent of public school students residing in a district, but attending a different district through open enrollment policy.

Data notes

- Open enrollment is the most common reason, but not the only reason, that a student may reside in one district, but attend another.

4.2   District mobility patterns

How many unique students did pairs of districts have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these districts?

District mobility patterns between TPS and other districts

Over two school years, the 44 public districts in the Toledo Area exchanged 4,773 students. The largest numbers of exchanges were between districts in close proximity to each other, but TPS also exchanged students with other Major Urban districts, including Dayton and Cleveland. Five Toledo Area districts exchanged at least 100 students with TPS. The largest number of exchanges (more than 200) were with the Washington, Springfield Local, and Sylvania districts (Table 13; Maps 7 and 8).

Table 13. Top 30 districts that exchanged students with TPS, October 2009–May 2011

District	Location	District rating	Econ. Disadv. (%)	Total students exchanged	Grades K–7		Grades 8–11	
					To TPS	From TPS	To TPS	From TPS
Washington	Ring 1	B	53.3	684	196	292	83	113
Springfield Local	Ring 1	A	36.2	417	161	173	38	45
Sylvania	Ring 1	A	18.0	239	60	119	23	37
Oregon	Ring 1	B	41.0	207	56	94	20	37
Maumee	Ring 1	A	31.7	164	47	78	17	22
Rossford	Ring 1	A+	46.4	98	33	45	9	11
Columbus	Other Ohio	C	81.9	83	32	21	20	10
Anthony Wayne	Ring 1	A	12.9	77	16	42	9	10
Lake	Ring 1	A	38.7	77	29	33	6	9
Northwood	Ring 1	A+	42.6	74	7	45	9	13
Swanton	Ring 1	A	43.5	51	13	14	10	14
Perrysburg	Ring 1	A	12.0	48	11	23	7	7
Bowling Green	Ring 2	A+	34.4	43	16	17	3	7
Genoa Area	Ring 2	B	32.5	42	6	24	5	7
Otsego	Ring 2	A	28.4	35	8	21	2	4
Cleveland	Other Ohio	D	95.5	32	6	8	6	12
Eastwood	Ring 2	A	19.1	28	10	11	4	3
Fremont	Ring 2	B	58.7	27	12	6	3	6
Evergreen	Ring 1	A	29.4	26	7	12	4	3
Wauseon	Ring 2	A	38.5	25	7	13	4	1
Dayton	Other Ohio	C	92.5	22	13	6	0	3
Findlay	Other Ohio	A	41.0	22	11	8	3	0
Lima	Other Ohio	C	80.8	20	4	6	5	5
Fostoria	Other Ohio	C	76.1	19	9	5	1	4
Sandusky	Other Ohio	C	75.6	18	5	8	2	3
Woodmore	Ring 2	A+	23.9	18	4	10	1	3
Pike-Delta-York	Ring 2	A	37.8	16	2	9	1	4
Ottawa Hills	Ring 1	A	-	15	7	6	1	1
Benton Carroll Salem	Ring 2	A	30.8	15	3	9	1	2
Napoleon Area	Other Ohio	A	38.9	14	3	6	3	2
Total top 30 districts				*2,656*	*794*	*1,164*	*300*	*398*

Source: CRP analysis of ODE enrollment records

Notes: Grade is the student's highest grade level during school year 2009–10. A student may have been enrolled in another district, charter school, or outside the Ohio public system between the periods of enrollment in the districts paired above. For example, a student who moves from TPS to Washington to Springfield Local schools would be included in two pairs: TPS/Washington and TPS/Springfield Local. Totals include only those students for whom grade level is available for school year 2009–10.

Maps 7 and 8. Students moving between TPS and another district in the Toledo Area, October 2009–May 2011

Into TPS

MICHIGAN

Washington
279

Sylvania
83

Ottawa Hills
8

Oregon
76

Evergreen
11

Toledo
199
Springfield

Wauseon
11

3

Swanton
23

Pike-Delta-York

Maumee
64

Northwood 16

Rossford
42

Lake
35

Genoa Area
11

Benton Carroll Salem
4

Anthony Wayne
25

18
Perrysburg

Liberty Center
5

Woodmore
5

Otsego
10

Eastwood
14

Fremont
15

Gibsonburg
5

19
Bowling Green

Elmwood
8

Lakota
4

Out of TPS

MICHIGAN

Washington
405

Sylvania
156

Ottawa Hills
7

Oregon
131

Evergreen
15

Toledo
218
Springfield

58
Northwood

Wauseon
14

13
Pike-Delta-York

Swanton
28

Maumee
100

Rossford
56

Lake
42

Genoa Area
31

Benton Carroll Salem
11

Anthony Wayne
52

30
Perrysburg

Liberty Center
6

Woodmore
13

Otsego
25

Eastwood
14

Fremont
12

Gibsonburg
6

24
Bowling Green

Elmwood
2

Lakota
7

Source: CRP analysis of ODE enrollment records

District mobility patterns among Toledo Area districts

Over two years, there were 2,392 student exchanges among the 25 largest Toledo Area districts (excluding TPS) (Table 14). The Springfield Local, Washington, and Sylvania districts had the most inter-district exchanges, with Washington and Sylvania exchanging 124 students.

Table 14. Toledo Area largest 25 districts (excluding TPS): Students exchange between pairs of districts, October 2009–May 2011

ORIGIN DISTRICT \ DESTINATION DISTRICT	Anthony Wayne	Benton Carroll Salem	Bowling Green	Eastwood	Elmwood	Evergreen	Fremont	Genoa Area	Gibsonburg	Lake-Wood	Lakota	Liberty Center	Maumee	Northwood	Oregon	Otsego	Perrysburg	Pike-Delta-York	Rossford	Springfield Local	Swanton	Sylvania	Washington	Wauseon	Woodmore
Anthony Wayne		1	4	-	2	12	-	5	1	2	-	3	11	-	1	4	21	5	2	13	24	9	7	3	1
Benton Carroll Salem	1		-	1	1	-	8	8	3	4	2	-	-	1	10	-	-	-	6	1	4	3	1	-	7
Bowling Green	9	-		15	21	1	5	-	1	4	2	4	2	2	-	31	22	1	13	5	1	-	6	-	-
Eastwood	2	2	11		-	-	-	7	1	7	2	1	-	2	6	3	4	-	10	-	-	3	1	-	1
Elmwood	-	-	26	7		-	1	-	1	-	11	-	-	1	1	-	1	1	1	1	3	-	-	-	1
Evergreen	1	-	-	-	-		-	-	-	-	-	4	1	-	-	1	1	5	1	2	9	5	2	16	-
Fremont	1	8	3	1	-	1		-	13	1	10	1	1	-	2	2	-	2	1	1	1	4	1	-	8
Genoa Area	-	8	-	1	1	-	-		-	8	-	1	-	1	6	-	2	-	4	2	-	-	3	-	13
Gibsonburg	1	3	-	1	1	-	21	-		1	4	1	-	-	6	-	1	1	-	-	-	-	-	-	5
Lake-Wood	5	-	3	8	3	2	1	17	-		1	1	2	11	15	3	6	-	15	6	-	4	7	-	6
Lakota	-	1	6	-	7	-	7	-	7	1		-	-	-	-	4	1	-	-	4	-	-	5	-	4
Liberty Center	3	-	-	-	-	3	-	1	-	-	-		1	-	4	1	-	14	1	-	4	1	1	7	2
Maumee	14	-	6	2	-	2	-	-	1	-	-	-		-	1	2	6	3	4	18	5	11	14	1	1
Northwood	1	1	-	-	2	1	-	1	-	9	2	-	3		19	1	3	1	12	3	-	2	4	1	1
Oregon	9	2	1	3	3	-	1	15	1	22	3	-	2	16		-	6	-	15	9	5	8	17	-	-
Otsego	5	-	48	5	4	-	4	1	1	4	3	3	-	-	6		2	-	4	5	2	2	6	5	-
Perrysburg	12	-	8	2	-	2	1	3	-	5	-	-	9	-	8	2		3	10	20	4	8	3	1	-
Pike-Delta-York	4	-	2	-	-	10	-	3	-	1	-	12	4	-	1	-	3		1	4	17	5	1	21	-
Rossford	3	-	6	9	4	-	1	4	-	5	1	2	6	8	6	1	21	-		5	-	1	14	-	2
Springfield Local	21	4	4	1	1	7	6	2	-	5	-	6	18	3	9	5	21	8	12		20	54	58	5	3
Swanton	9	1	1	-	-	14	-	4	1	-	-	2	6	-	8	-	3	14	1	4		3	7	10	1
Sylvania	10	3	3	-	-	1	1	1	3	2	1	-	13	2	8	4	8	4	2	34	6		44	-	3
Washington	10	4	12	8	3	1	1	1	-	9	1	1	12	5	14	-	5	-	8	35	5	80		-	2
Wauseon	-	-	-	1	-	5	-	1	-	-	-	5	-	-	4	-	1	18	2	2	3	2	2		-
Woodmore	1	5	-	5	-	-	1	7	3	2	2	-	-	9	6	-	1	-	1	3	1	-	4	-	

Source: CRP analysis of ODE enrollment records

District mobility patterns between Toledo Public Schools and charter schools

Over two years, the 30 largest charter schools exchanged a total of 4,574 students with TPS schools. Eight charter schools exchanged at least 150 students with TPS, led by Phoenix Academy Community School (854) and Achieve Career Preparatory Academy (245). Two e-charters were among the top ten charter schools that exchanged students with TPS (Table 15). For both grades K-7 and 8-11, more students went to charter schools from TPS (2,701) than came to TPS charter schools from TPS (1,873).

Table 15. Top 30 charter schools in students exchanged with TPS, October 2009–May 2011

Charter school *e-charters in italics* *Dropout recovery school*	Rating	Econ. disadv. (%)	Total students exchanged	Grades K–7		Grades 8–11	
				To TPS	From TPS	To TPS	From TPS
Phoenix Academy Community School*	F	26.5	854	8	55	136	655
Achieve Career Preparatory Academy*	F	95.5	245	0	1	72	172
Bennett Venture Academy	C	80.2	222	102	76	43	1
Life Skills Center Of Toledo*	D	92.3	222	0	0	36	186
Winterfield Venture Academy	D	91.9	212	119	62	31	0
Ohio Virtual Academy	B	55.3	177	38	54	33	52
Horizon Science Academy-Springfield Local	B	87.4	177	53	91	32	1
Star Academy of Toledo	C	94.1	168	86	66	14	2
The Maritime Academy of Toledo	D	74.7	143	31	41	45	26
Electronic Classroom Of Tomorrow	C	76.9	134	17	19	21	77
Glass City Academy*	C	-	131	0	0	7	124
Horizon Science Academy Toledo	C	73.7	130	0	0	70	60
Madison Avenue School of Arts	D	55.2	119	63	56	0	0
Eagle Academy	D	52.0	118	38	72	7	1
Clay Avenue Community School	D	67.1	117	75	42	0	0
Academy Of Business & Tech	NA	-	115	99	0	15	1
Northpointe Academy	D	-	113	26	75	8	4
Horizon Science Academy Toledo Downtown	D	92.2	111	27	83	0	1
Polly Fox Academy Community School*	F	95.5	103	2	3	14	84
Knight Academy	C	41.4	98	13	71	12	2
Victory Academy of Toledo	F	95.5	96	47	36	13	0
Lake Erie Academy	F	94.7	96	48	48	0	0
Imani Learning Academy	D	84.9	94	50	35	9	0
Meadows Choice Community	D	93.6	94	41	39	13	1
Aurora Academy	C	95.5	92	43	41	8	0
Paul Laurence Dunbar Academy	NA	-	86	58	15	11	2
L. Hollingworth School for Talented and Gifted	C	88.5	85	20	65	0	0
Englewood Peace Academy	NA	-	84	69	2	13	0
Wildwood Environmental Academy	C	50.4	72	18	35	4	15
Toledo School For The Arts	A	35.4	66	2	43	13	8
Total top 30 charter schools			*4,574*	*1,193*	*1,226*	*680*	*1,475*

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2009–2010.

TPS mobility patterns summary: other districts and charters

Over two school years, 6,776 unique students transferred between TPS and another Ohio district or charter school (Table 16). Of these:

- 39% moved to or from another district
- 56% moved to or from a physical charter school
- 5% moved to or from an e-charter school

The largest number of moves to and from other districts or charters occurred among 9th grade students (986), followed by 8th grade (621), kindergarten (579), and 1st grade (521).

Table 16. Students moving into or out of TPS by grade and origin/destination type, Oct. 2009–May 2011

Grade	Another public district		Physical charter school		E-charter school	
	To TPS	**From TPS**	**To TPS**	**From TPS**	**To TPS**	**From TPS**
All grades	905	1,726	1,345	2,458	93	249
K	108	211	124	118	7	11
1	102	180	103	122	3	11
2	92	157	98	130	5	7
3	70	153	105	126	2	8
4	69	144	82	124	5	7
5	51	135	88	196	4	11
6	57	141	100	159	9	9
7	67	112	117	118	8	23
8	45	142	208	176	12	38
9	65	142	134	549	23	73
10	53	94	58	275	7	22
11	34	32	48	208	6	13
12	11	13	26	111	1	7
NA	81	70	54	46	1	9

Source: CRP analysis of ODE enrollment records

Note: Grade is based on a student's highest grade level during school year 2009–2010; NA- grade level not available.

4.3   Building mobility patterns

How many unique students did pairs of buildings have in common (i.e. a student was enrolled in both at some point in time) over two school years? What was the direction of movement (origin and destination) between these buildings?

Exchanges between Toledo Public Schools buildings and buildings in other districts

Because of their size, the largest numbers of TPS inter-district building moves occurred at the high school level. Only ten of the top exchange pairs involved elementary schools. TPS Start, Bowsher, and Rogers high schools exchanged a total of at least 50 students each with high schools in the Washington, Springfield Local Local, Maumee, and Sylvania districts (Table 17). DeVeaux Middle School was the only other TPS school to exchange at total of at least 50 students with schools in other districts—those being the Washington and Springfield Local districts

Table 17. TPS and other districts: Building pairs that exchanged the most students, October 2009–May 2011

TPS school building (X)	Rating Bldg. X	School building in another district (Y)	District of Building Y	Rating Bldg. Y	Students exchanged
Start High	A	Whitmer High	Washington	B	60
Waite High	C	Clay High	Oregon	B	33
McTigue Middle	D	Springfield Local Middle	Springfield Local-Lucas County	A	32
Bowsher High	B	Whitmer High	Washington	B	24
Rogers High	B	Springfield Local High	Springfield Local-Lucas County	A	22
Rogers High	B	Whitmer High	Washington	B	21
Scott High	NA	Whitmer High	Washington	B	19
DeVeaux Middle	C	Jefferson Junior High	Washington	A+	19
Hawkins Elementary	C	Dorr Street Elementary	Springfield Local-Lucas County	A	18
Byrnedale Middle	C	Springfield Local Middle	Springfield Local-Lucas County	A	18
Bowsher High	B	Springfield Local High	Springfield Local-Lucas County	A	17
Woodward High	D	Whitmer High	Washington	B	17
DeVeaux Middle	C	Washington Junior High	Washington	B	17
Whittier Elementary	C	Greenwood Elementary	Washington	B	16
Bowsher High	B	Maumee High	Maumee	A	15
Waite High	C	Whitmer High	Washington	B	15
Start High	A	Springfield Local High	Springfield Local-Lucas County	A	14
DeVeaux Middle	C	Whitmer High	Washington	B	14
Crossgates Elementary	B	Springfield Local Middle	Springfield Local-Lucas County	A	13
Longfellow Elementary	B	Greenwood Elementary	Washington	B	12
DeVeaux Middle	C	Springfield Local Middle	Springfield Local-Lucas County	A	12
Longfellow Elementary	B	Meadowvale Elementary	Washington	B	12
Reynolds Elementary	D	Holland Elementary	Springfield Local-Lucas County	B	11
Rogers High	B	Sylvania Southview High	Sylvania	A	11
Navarre Elementary	C	Hiawatha Elementary	Washington	A	11
Keyser Elementary	D	Dorr Street Elementary	Springfield Local-Lucas County	A	10
Oakdale Elementary	C	Coy Elementary	Oregon	B	10
Oakdale Elementary	C	Lake Elementary	Lake-Wood County	B	10

Source: CRP analysis of ODE enrollment records
Note: Limited to pair exchanging at least 10 unique students over two school years

Exchanges between Toledo Public Schools buildings and charter schools

Over two years, the TPS buildings and the charter schools that exchanged the most students exchanged a total of 1,534 students (Table 18). Of the exchanges in Table 18, 83% involved exchanges between a TPS high school or middle school and a dropout recovery charter school, and only 2% were with an e-school. Phoenix Academy Community School exchanged 844 students with nine TPS high schools and middle schools.

Table 18. TPS and charter schools: 30 building pairs that exchanged the most students, October 2009–May 2011

CCS school building (X)	Rating Bldg. X	Charter school (Y) E-charter in italics *Dropout recovery school	Rating Bldg. Y	Students exchanged
Start High School	A	Phoenix Academy Community School*	F	192
Waite High School	C	Phoenix Academy Community School*	F	167
Rogers High School	B	Phoenix Academy Community School*	F	105
Bowsher High School	B	Phoenix Academy Community School*	F	104
Woodward High School	D	Phoenix Academy Community School*	F	103
Scott High School	NA	Phoenix Academy Community School*	F	94
Woodward High School	D	Life Skills Center Of Toledo*	D	62
Scott High School	NA	Achieve Career Preparatory Academy*	F	61
Scott High School	NA	Life Skills Center Of Toledo*	D	57
Woodward High School	D	Achieve Career Preparatory Academy*	F	45
Scott High School	NA	Glass City Academy*	C	39
Waite High School	C	Eagle Learning Center*	F	33
East Broadway Middle School	C	Phoenix Academy Community School*	F	32
Reynolds Elementary School	D	Winterfield Venture Academy	D	30
DeVeaux Middle School	C	Bennett Venture Academy	C	30
Bowsher High School	B	Life Skills Center Of Toledo*	D	29
East Side Central Elementary School	C	Aurora Academy	C	28
Pickett Elementary School	F	Star Academy of Toledo	C	27
Waite High School	C	*Electronic Classroom Of Tomorrow*	C	27
Waite High School	C	Achieve Career Preparatory Academy*	F	26
Whittier Elementary School	C	Bennett Venture Academy	C	26
Woodward High School	D	Glass City Academy*	C	26
Keyser Elementary School	D	Winterfield Venture Academy	D	25
Woodward High School	D	Horizon Science Academy Toledo	C	25
McTigue Middle School	D	Winterfield Venture Academy	D	25
Waite High School	C	Life Skills Center Of Toledo*	D	24
Leverette Middle School	D	Phoenix Academy Community School*	F	24
Birmingham Elementary School	C	Eagle Academy	D	23
DeVeaux Middle School	C	Phoenix Academy Community School*	F	23
Rogers High School	B	Achieve Career Preparatory Academy*	F	22
				1534

Source: CRP analysis of ODE enrollment records

Exchanges between Toledo Public Schools buildings

Over the two school years, 2,870 TPS students made a non-promotional change of school within the TPS district. Of these, 71% occurred among students in grades K-4. Of the exchanges in Table 19, Rosa Parks Elementary was the most frequent receiving school, followed by Picket Elementary and Spring Elementary. The most frequent sending schools were Glenwood Elementary, Martin Luther King Academy for Boys, and Lagrange Elementary.

Table 19. TPS buildings: 30 building pairs that exchanged the most students, October 2009–May 2011

TPS building (X)	Rating of building X	TPS building (Y)	Rating of building Y	Students exchanged
Martin Luther King Academy for Boys Elementary	C	Pickett Elementary	F	85
Ella P. Stewart Academy for Girls	D	Martin Luther King Academy for Boys Elementary	C	54
Sherman Elementary	F	Spring Elementary	F	51
Bowsher High	B	Rogers High	B	49
Glenwood Elementary	F	Rosa Parks Elementary	F	48
Walbridge Elementary	B	Westfield Elementary	D	44
East Side Central Elementary	C	Raymer Elementary	C	43
East Side Central Elementary	C	Navarre Elementary	C	41
Glenwood Elementary	F	Pickett Elementary	F	35
Leverette Middle	D	Robinson Middle	F	35
Glenwood Elementary	F	Martin Luther King Academy for Boys Elementary	C	34
Lagrange Elementary	F	Sherman Elementary	F	32
Martin Luther King Academy for Boys Elementary	C	Rosa Parks Elementary	F	32
Marshall Elementary	D	Walbridge Elementary	B	31
Pickett Elementary	F	Rosa Parks Elementary	F	31
Glenwood Elementary	F	Grove Patterson Academy Elementary	B	30
Riverside Elementary	D	Spring Elementary	F	29
Lagrange Elementary	F	Spring Elementary	F	28
Longfellow Elementary	B	Whittier Elementary	C	27
Byrnedale Middle	C	Samuel M. Jones at Gunckel Park Middle	F	26
DeVeaux Middle	C	Robinson Middle	F	25
Glenwood Elementary	F	Lagrange Elementary	F	25
Lagrange Elementary	F	Pickett Elementary	F	25
Marshall Elementary	D	Westfield Elementary	D	25
Lagrange Elementary	F	Rosa Parks Elementary	F	24
Navarre Elementary	C	Raymer Elementary	C	24
Pickett Elementary	F	Sherman Elementary	F	24
Robinson Middle	F	Samuel M. Jones at Gunckel Park Middle	F	24
Bowsher High	B	Start High	A	23
Chase STEM Academy	C	Rosa Parks Elementary	F	23

Source: CRP analysis of ODE enrollment records

4.4   Origin and destination performance ratings

What is the performance rating of the destination school of mobile students, compared to the rating of the school of origin?

Tables 20-25 display the school year 2010–2011 state report card performance rating of the origin school and destination school for the most recent move a student made over a two school year period, where one of the schools was in the TPS district. Green table cells denote a destination school that is at least two ratings higher than the origin school, and orange cells denote a destination that is at least two rating lower than the origin schools. These tables exclude school changes involving a building with no rating available.

Exiting Toledo Public Schools for another district

Of the 1,638 students over two years who exited TPS for another district, 43.8% moved to a school with a performance rating at least two ratings *higher* than their TPS school of origin, while fewer than 1% moved to a school with a rating two or more ratings *lower* than their school of origin.

Table 20. Rating of origin and destination buildings for students *exiting* TPS for another district, Oct. 2009–May 2011

n=1,638 moves	Rating of **DESTINATION** school in other Ohio district					
Rating of **ORIGIN** TPS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	0	0	0
Excellent (A)	4	67	66	4	2	0
Effective (B)	32	200	181	15	1	3
Continuous Improvement (C)	64	290	305	26	1	1
Academic Watch (D)	21	104	88	13	14	5
Academic Emergency (F)	9	53	51	6	8	4

Source: CRP analysis of ODE enrollment records

Entering Toledo Public Schools from another district

Of the 825 students over two years who entered TPS from another district, 1.0% moved to a TPS school with a performance rating at least two ratings *higher* than their school of origin, while 44.7% moved to a TPS school with a rating two or more ratings *lower* than their school of origin.

Table 21. Rating of origin and destination buildings for students *entering* TPS from another district, Oct. 2009–May 2011

n=825 moves	Rating of **DESTINATION** TPS school					
Rating of **ORIGIN** school in other Ohio district	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	4	11	23	9	3
Excellent (A)	0	37	90	157	51	12
Effective (B)	0	36	89	141	60	37
Continuous Improvement (C)	0	2	8	11	6	6
Academic Watch (D)	0	0	4	4	3	8
Academic Emergency (F)	0	0	0	2	7	4

Source: CRP analysis of ODE enrollment records

Exiting Toledo Public Schools for a charter school

Of the 2,354 students over two years who left TPS for a charter school, 7.6% moved to a charter school with a performance rating at least two ratings *higher* than their TPS school of origin, while 35.3% moved to a charter school with a rating two or more ratings *lower* than their school of origin.

Table 22. Rating of origin and destination buildings for students *exiting* TPS for a public charter school (including e-charters), October 2009–May 2011

n=2,354 moves	Rating of DESTINATION charter school					
Rating of ORIGIN TPS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	0	0	0
Excellent (A)	0	8	15	50	22	199
Effective (B)	0	36	39	121	99	208
Continuous Improvement (C)	0	16	63	184	189	252
Academic Watch (D)	0	10	65	107	166	167
Academic Emergency (F)	0	3	21	65	174	75

Entering Toledo Public Schools from a charter school

Of the 1,210 students over two years who entered TPS from a charter school, 25.6% moved to a TPS school with a performance rating at least two ratings *higher* than their school of origin, while 9.6% moved to a TPS school with a rating two or more ratings *lower* than their school of origin.

Table 23. Rating of origin and destination buildings for students *entering* TPS from a public charter school (including e-charters), October 2009–May 2011

n=1,210	Rating of DESTINATION TPS school					
Rating of ORIGIN charter school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	0	0	0
Excellent (A)	0	2	9	8	12	6
Effective (B)	0	16	23	23	19	20
Continuous Improvement (C)	0	45	66	146	60	51
Academic Watch (D)	0	29	87	157	120	75
Academic Emergency (F)	0	21	74	54	56	31

Moving between Toledo Public Schools buildings

Of the 2,755 students over two years who moved from one TPS building to another, 14.7% moved to a building with a performance rating at least two ratings *higher* than their TPS school of origin, while 16.9% moved to a building with a rating two or more ratings *lower* than their school of origin.

Table 24. Rating of origin and destination buildings for students changing schools *within* the TPS district, October 2009–May 2011

n=2,755 moves	Rating of DESTINATION TPS school					
Rating of ORIGIN TPS school	A+	A	B	C	D	F
Excellent with Distinction (A+)	0	0	0	0	0	0
Excellent (A)	0	12	45	32	16	17
Effective (B)	0	31	141	146	76	89
Continuous Improvement (C)	0	14	174	351	187	235
Academic Watch (D)	0	12	117	168	79	145
Academic Emergency (F)	0	5	60	198	158	247

Summary of destination performance ratings

Table 25. Summary: Rating of destination buildings for TPS students changing schools, October 2009–May 2011

Type of move	Number of student movers	Rating of destination school compared to school of origin		
		2 or more ratings lower (% of movers)	Same rating or 1 rating higher/lower (% of movers)	2 or more ratings higher (% of movers)
Exiting TPS for another district	1,638	0.7	55.5	43.8
Entering TPS from another district	825	44.7	54.3	1.0
Exiting TPS for a charter school	2,354	35.3	57.1	7.6
Entering TPS from a charter school	1,210	9.6	64.8	25.6
Changing schools within TPS	2,755	16.9	68.4	14.7

4.5   Open enrollment

How many students are enrolled in a district, which is not their district of residence, through open enrollment?

As of school year 2010–2011, there was a mix of districts adjacent to TPS, including some that accept open enrollment districts, but most that did not. However, many districts in the Toledo Area—particularly those in Ring 2—do permit open enrollment (Map 9). Three pairs of Toledo Area districts had at least 50 students who resided in one district, but attended school in another district through inter-district open enrollment: Toledo residence to Oregon enrollment (145), Toledo to Northwood (82), and Washington to Toledo (62).

Map 9. Open enrollment patterns of Toledo Area districts and total incoming students through open enrollment, school year 2010–2011
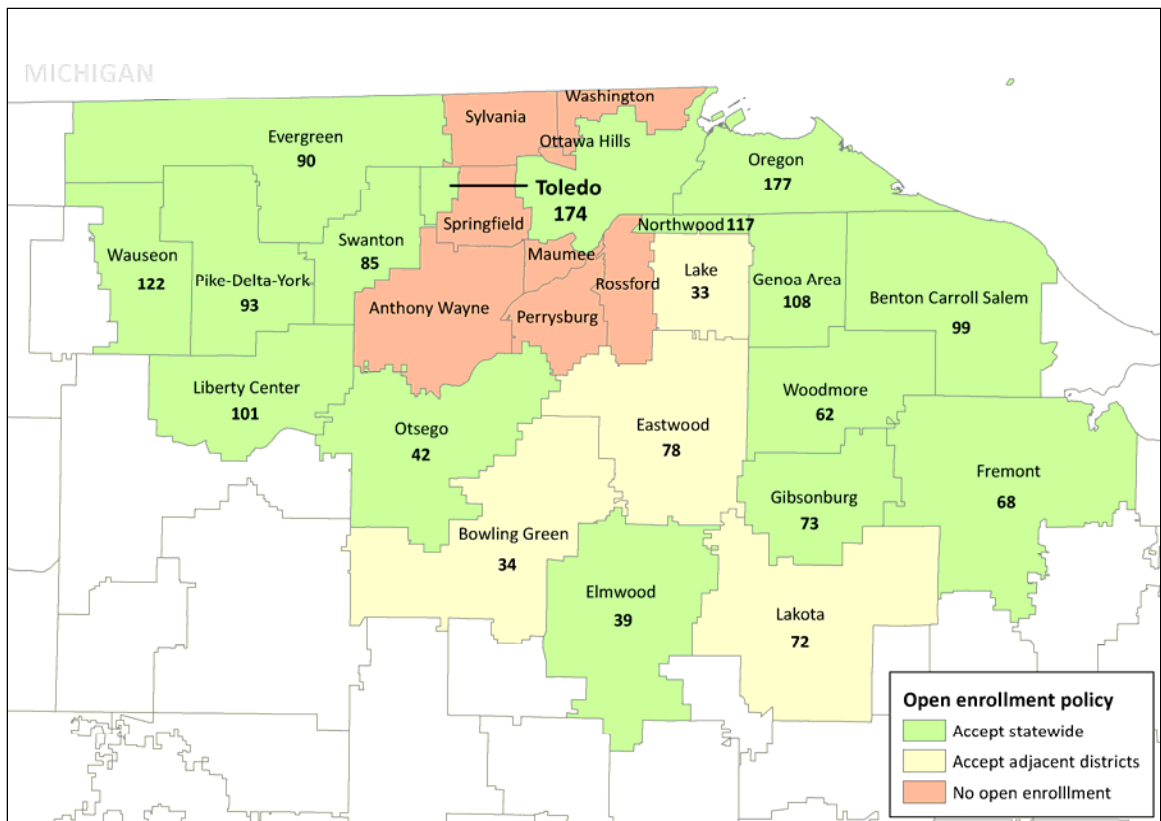
Source: CRP analysis of ODE enrollment records

5.0 Mobility and the student

5.1 Section overview and key concepts

This section of the report examines the relationship of mobility and student characteristics and achievement for TPS students. The analysis includes: (1) differences in demographic characteristics of mobile and non-mobile student groups, (2) differences in demographics of students who left the district based on the type of destination school, and (3) differences in proficiency test scores based on mobility status.

Student characteristics and mobility status

How do stable TPS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

- The demographic characteristics of TPS student groups based on their mobility status over a one-year period from October 1, 2009 to October 1, 2010, and statistical differences between these groups.

Data notes

- Demographic characteristics are from ODE student records and include race, grade, economic disadvantage, homeless, immigrant, LED, disability

Student characteristics and destination of outgoing students

How do the characteristics of outgoing TPS students differ based on their destination school?

- The demographic characteristics of TPS students who left the district from October 1, 2009 to October 1, 2010, based on their destination school type.

Data notes

- Demographic characteristics are from ODE student records and include race, grade, economic disadvantage, homeless, immigrant, LED, disability.

- Destination schools include another Ohio district, physical charter school, e-charter school, district outside of Ohio, and other (includes expulsion, court order, private school, vocational school, dropout, early graduation, medical, death, and unknown—the largest group)

Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

- **Mobility history:** Amount and type of student mobility of 3rd and 8th grade proficiency test takers during the two-year period preceding the school year 2011 test period.

- **Proficiency test passage:** Statistical analysis of the relationship between the mobility history of student groups and student attributes and proficiency on state achievement tests.

Data notes

- Mobility history includes: total school building changes (non-promotional), number of districts attended, number of community schools attended, and within school year withdrawal/reentry to same school.

- Mover groups include: 0 moves, 1 summer-only move, 1 during school year move, 2 moves, 3+ moves. Students in the 2-moves and 3+ moves groups have at least one school year move, but may have a combination of summer and school year moves.

5.2   Student characteristics and mobility status

How do stable TPS students differ from those who move within the district? How do students staying in the district differ from those leaving? How do students leaving the district differ from those entering?

Table 26 compares the enrollment and mobility status of TPS students on October 1, 2009, and on October 1, 2010. Statistical tests found the following significant differences between these groups:

- **Movers between Toledo Public Schools buildings**. Compared to stable TPS students, those who move between TPS buildings are more likely to be black, economically disadvantaged, homeless, or have a disability.

- **Outgoing and incoming students**. Compared to outgoing TPS students, incoming students are more likely to be black, economically disadvantaged, or an immigrant.

Stable TPS students were fairly evenly distributed across grade levels (7-9% in each grade), although 11% of stable students were in grade 9. The following was the grade distribution of mover groups:

- **Movers between Toledo Public Schools buildings.** Seventy-three percent of students who moved between TPS buildings were in grades K-4.

- **Outgoing students**. Nearly one in four students who left the district was in grade 8 or 9.

- **Incoming students**. Nineteen percent of all incoming students were in grade 9, and another 22% were in grades K and 1.

5.3   Student characteristics and destination of outgoing students

How do the characteristics of outgoing TPS students differ based on their destination school?

Statistical tests found the following significant differences between groups of students leaving the TPS district, based on their destination school (Table 26):

- **Race.** Compared to other racial groups, black students are more likely to move to a physical charter school or a district outside of Ohio; white students are more likely to move to another Ohio district, an e-charter, or a district outside of Ohio; and Hispanic students are more likely to move to physical charter or e-charter.

- **Economic disadvantage.** Economically disadvantaged TPS students are more likely than those who are not economically disadvantaged to move to a physical charter.

- **LEP.** LEP students are more likely than those who are not LEP to move to a district outside of Ohio.

Stable TPS students were fairly evenly distributed across grade level (7-9% in each grade), although 11% of stable students were in grade 9. The following was the grade distribution of mover groups based on their destination school:

- **Other Ohio district.** Sixty-three percent of TPS students who moved to another Ohio district were in grades K-5.

- **Physical charter**. More than one in three TPS students who moved to a physical charter was in grades 5 or 9.

- **E-students.** More than one-half of TPS students who moved to an e-charter were in grades 7-9, with 28% in grade 9.

- **District outside of Ohio.** Twenty-three percent of all TPS students who moved to a district outside of Ohio were in grades K-1, and another 11% were in grade 9.

Table 26. Characteristics of TPS students by mobility status and destination, Oct. 1, 2009 to Oct. 1, 2010

| | Characteristics of non-mobile and mobile TPS students | | | | Characteristics of outgoing TPS students by destination | | | | |
| | Stayed in district | | | | | | | | |
	Stable student (1)	Move between TPS buildings (2)	Incoming (entered the district)	Outgoing (left the district)	Other Ohio district	Physical charter school	E-charter school	District outside of Ohio	Other or NA (3)
All	**17,369**	**1,948**	**2,251**	**4,679**	**1,076**	**1,414**	**103**	**356**	**1,730**
Race									
Black	42.0	61.9	47.3	45.3	25.5	56.4	12.6	41.6	51.2
White	41.8	22.4	32.7	34.7	50.7	22.6	56.3	37.9	32.5
Hispanic	9.2	9.3	8.8	10.5	12.0	10.7	17.5	10.1	9.0
Asian	0.7	0.1	1.1	1.0	1.6	0.5	1.0	1.7	0.9
Other	6.2	6.4	10.1	8.6	10.2	9.8	12.6	8.7	6.4
Grade SY 2009-2010									
K	9.7	16.3	12.1	9.1	13.6	6.2	9.7	12.1	8.0
1	8.8	14.8	9.7	7.4	10.4	6.5	2.9	10.7	5.8
2	8.3	14.0	8.7	6.7	9.9	7.1	2.9	8.1	4.5
3	8.8	15.8	7.8	6.4	9.3	6.9	1.9	5.9	4.6
4	8.1	11.9	6.5	6.5	8.6	7.0	3.9	12.1	3.8
5	8.1	6.6	6.1	8.7	9.4	11.3	3.9	7.9	6.6
6	7.9	4.7	7.4	7.9	8.6	8.6	8.7	8.4	6.7
7	7.7	5.2	6.7	6.1	6.9	5.7	13.6	8.7	4.9
8	7.5	0.3	18.7	8.6	8.0	6.1	11.7	4.8	11.7
9	11.1	6.3	7.4	17.4	9.1	22.8	28.2	11.2	18.7
10	7.7	2.9	5.5	7.6	4.7	6.6	7.8	5.6	10.5
11	6.3	1.2	3.6	7.6	1.5	5.2	4.9	4.5	14.2
Economic Disadvantage									
No	19.8	3.5	13.9	22.2	19.9	13.2	16.5	25.3	30.8
Yes	80.2	96.5	86.1	77.8	80.1	86.8	83.5	74.7	69.2
Homeless									
No	96.2	88.2	91.2	91.9	90.3	92.2	91.3	89.3	93.2
Yes	3.8	11.8	8.8	8.1	9.7	7.8	8.7	10.7	6.8
Immigrant									
No	99.9	99.9	98.8	99.4	99.2	99.2	100.0	99.7	99.5
Yes	0.1	0.1	1.2	0.6	0.8	0.8	0.0	0.3	0.5
LEP									
No	98.2	99.0	98.5	98.0	98.9	97.9	98.1	94.9	98.2
Yes	1.8	1.0	1.5	2.0	1.1	2.1	1.9	5.1	1.8
Disability									
No	79.3	68.8	81.3	78.2	79.4	81.5	84.5	82.0	73.6
Yes	20.7	31.2	18.7	21.8	20.6	18.5	15.5	18.0	26.4

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records.

(1) Stable student: did not move or a promotional move only (i.e. elementary to middle school, middle school to high school)

(2) Does not include promotional moves

(3) Includes expulsion, court order, private school, vocational school, home school, dropout, early graduation, medical, death, and unknown, which is the largest group

5.4 Student mobility and proficiency test passage

What is the 2-year mobility history of 3rd grade and 8th grade students who took the 2011 proficiency tests? What is the relationship of mobility history and proficiency test scores?

Mobility history of test takers

Of the 3,315 third- and eighth-grade TPS students who took the Ohio Achievement Assessment (OAA) tests in spring 2011, about one-in-three third-grade test takers and one-in-four 8th-grade test takers made at least one non-promotional move during the previous two school years (Table 27).

Table 27. TPS: Mobility history of OAA test-takers in spring 2011

Mobility type and amount	3rd grade		8th grade	
	#	%	#	%
Test-takers	1,806	100.0	1,509	100.0
Total school changes over two school years				
0 moves	1,208	66.9	1,112	73.7
1 summer-only move	216	12.0	170	11.3
1 during school year move	211	11.7	150	9.9
2 moves	128	7.1	61	4.0
3+ moves	43	2.4	16	1.1

Source: CRP analysis of ODE enrollment records

Mobility history and economic disadvantage

In general, a higher percentage of the mobile spring 2011 test-takers were economically disadvantaged than were those who did not change schools during the previous two years.

Table 28. TPS: Economic disadvantage and mobility history of OAA test-takers in spring 2011

Total non-promotional moves over two school years	3rd grade test			8th grade test		
	Total test-takers	Economic Disadvantage		Total test-takers	Economic Disadvantage	
		# of test takers	% of test takers		# of test takers	% of test takers
0 moves	1,208	969	80.2	1,112	923	83.0
1 summer move	211	202	95.7	150	140	93.3
1 during school year move	216	198	91.7	170	135	79.4
2 moves	128	126	98.4	61	60	98.4
3+ moves	43	42	97.7	16	15	93.8

Source: CRP analysis of ODE enrollment records

Mobility history and test scores

The average test scores and passage rates of 3rd and 8th grade OAA tests are lower for students with at least 1 school year move or 2+ total moves over the past two years (Figures 1, 2). However, there is no clear indication that more moves are related to lower scores and rates.

Figure 1. TPS: Average scores on spring 2011 OAA tests by two-year mobility history
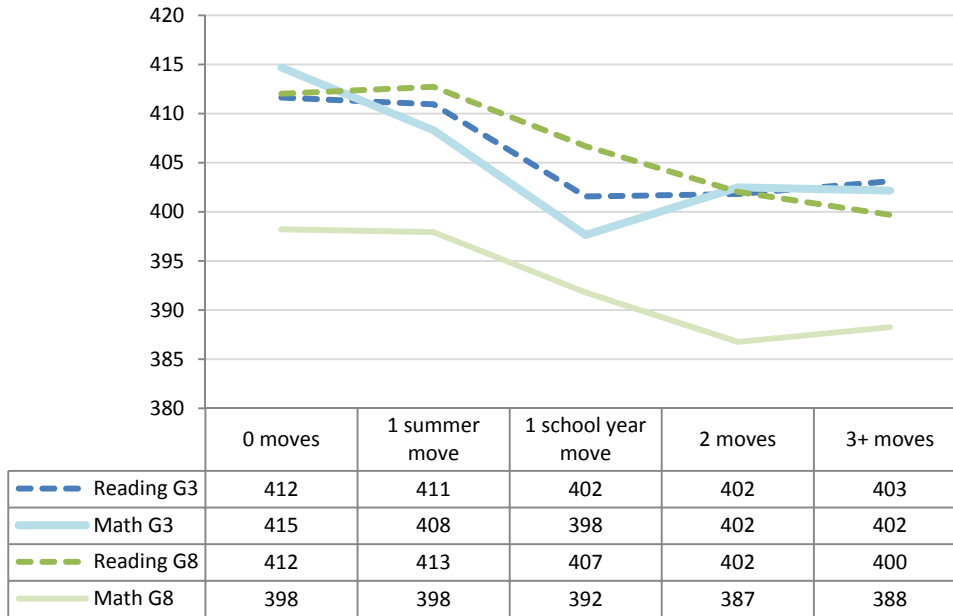
	0 moves	1 summer move	1 school year move	2 moves	3+ moves
Reading G3	412	411	402	402	403
Math G3	415	408	398	402	402
Reading G8	412	413	407	402	400
Math G8	398	398	392	387	388

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

Figure 2. TPS: Passage rates on spring 2011 OAA tests by two-year mobility history
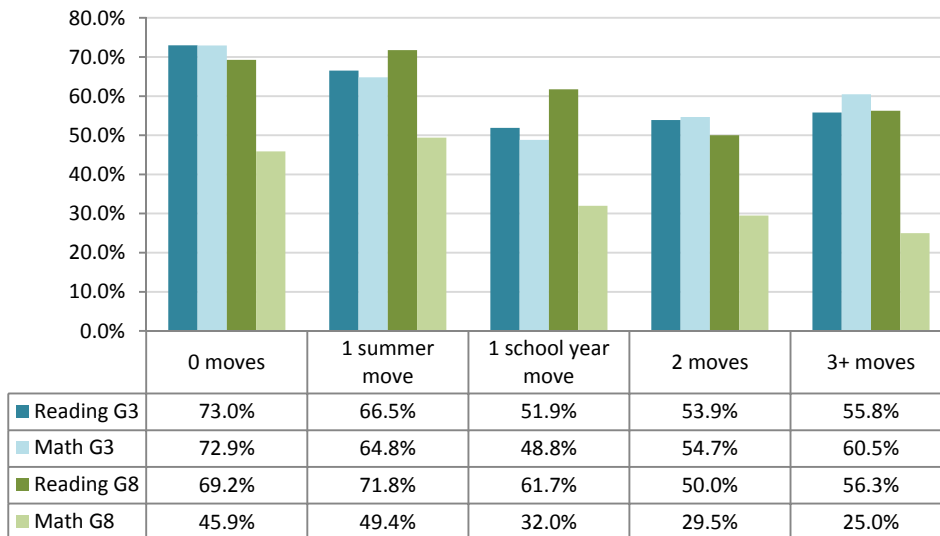
	0 moves	1 summer move	1 school year move	2 moves	3+ moves
Reading G3	73.0%	66.5%	51.9%	53.9%	55.8%
Math G3	72.9%	64.8%	48.8%	54.7%	60.5%
Reading G8	69.2%	71.8%	61.7%	50.0%	56.3%
Math G8	45.9%	49.4%	32.0%	29.5%	25.0%

Source: CRP analysis of ODE enrollment records

Summary: relationship of mobility, student characteristics, and test scores

Average test scores

Figure 3 shows the average scores on the spring 2011 3rd grade math test for selected student groups. Scores were highest for the following TPS student groups:

- Not economically disadvantaged
- Non-Hispanic white
- Had no school moves over the past two years

Figure 3. TPS: Average scores on 3rd grade math test by student groups, spring 2011
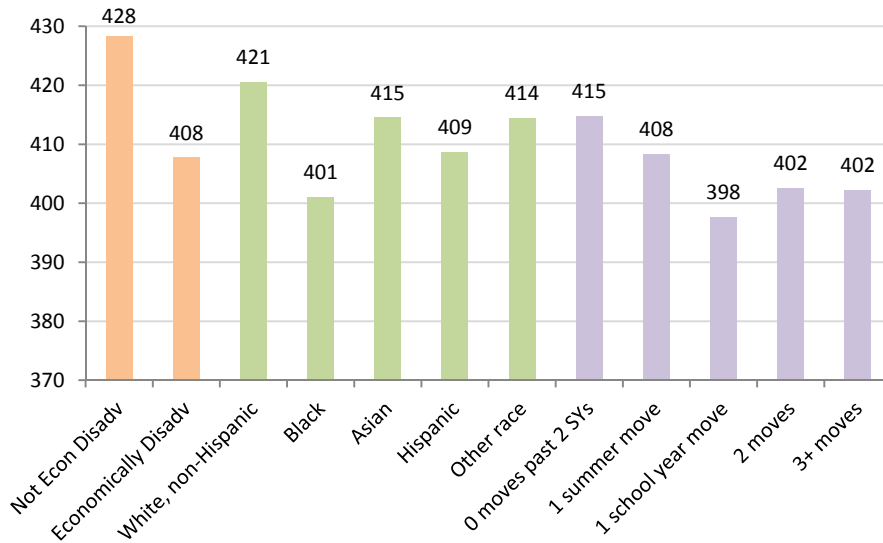
Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

Statistical modeling

Table 28 shows the results of statistical tests of differences between groups in test scores based on the following factors: economic disadvantage, race or ethnicity, or number of moves over the past two years. The p-values on the table are for the test of whether there is a significant difference in scores due to each factor *after all other factors have been adjusted for*. If the p-value is small (p <= 0.05), the factor is very important in predicting the test scores.

For the TPS student groups analyzed, the low p-values for all factors indicate that the number of school changes over two years is an independent predictor of test scores. There is a statistically significant relationship between more school moves and lower test scores, although not as strong for 8th grade reading and math. Economic disadvantage and race are also independent predictors of test scores.

Table 29. TPS: Significance of relationship of factors to test scores on selected OAA tests, spring 2011

Factor	Grade 3 Reading	Grade 3 Mathematics	Grade 8 Reading	Grade 8 Mathematics
Economic disadvantage status	<.0001	<.0001	<.0001	<.0001
Race or ethnicity category	<.0001	<.0001	<.0001	<.0001
Total number of school changes over past 2 school years	<.0001	<.0001	0.0026	0.0003

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records

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The statistical modeling also examined the differences in test scores based on the number of moves, and whether a move was in the summer or school year (Table 30). The following were found to be significant differences in mover groups:

- **Grade 3 math test scores.** All school year mover groups and summer movers have lower mean test scores than those of the 0-mover group. The group that moved one time during the school year also has lower mean scores than does the one summer mover group.

- **Grade 3 reading test scores.** Groups with one or two school year moves have lower mean test scores than those of the 0-mover group. The group with two moves also has lower mean scores than does the one summer mover group.

- **Grade 8 math test scores.** Groups with one or two school year moves have lower mean test scores than those of the 0-mover group. The groups with one school year move or two moves also have lower mean scores than do the one summer mover group.

- **Grade 8 reading test scores.** The only difference between groups is for the two move group, which has a lower mean test score than does the 0-mover group.

Table 30. Significant differences in mean test scores of TPS students by number of moves over two school years preceding spring 2011 OAA tests

Grade	0 moves	1 move, summer	1 move, school year	2 moves	3+ moves
Grade 3 Math					
0 moves					
1 move, summer	yes (1)				
1 move, school year	yes	yes			
2 moves	yes	no	no		
3 or more moves	yes	no	no	no	
Grade 3 Reading					
0 moves					
1 move, summer	no				
1 move, school year	yes	yes			
2 moves	yes	yes	no		
3 or more moves	no	no	no	no	
Grade 8 Math					
0 moves					
1 move, summer	no				
1 move, school year	yes	no			
2 moves	yes	yes	no		
3 or more moves	no	no	no	no	
Grade 8 Reading					
0 moves					
1 move, summer	no				
1 move, school year	no	no			
2 moves	yes	no	no		
3 or more moves	no	no	no	no	

Source: CRP and OSU-Center for Statistical Consulting analysis of ODE enrollment records
(1) "yes" indicates p-value of <= 0.05 in tests of difference between groups

5.5 Mobility and achievement test roll-up level

An impact of student mobility is that mobile students may not meet the enrollment criteria—continually enrolled in a building or district from October 31 until the spring achievement testing date—for counting their test scores in a building's or district's performance rating. Instead, their test score is "rolled up" and counts only for the district or state rating.

- Among the Toledo Area Ring 1 districts, Toledo has the highest percentage of students whose achievement test scores are rolled up to the state (Table 31).

- The TPS figure (8.7%) is the fourth highest among the Major Urban districts, with Cleveland (14.2%) and East Cleveland (10.2%) having higher percentages of state-only accountability among test takers. Akron (4.3%) and Warren (5.3%) had the lowest roll-up percentages.

Table 31. Toledo Area Ring 1 districts: Roll-up for OAA test-takers in grades 3 to 8, spring 2011 test period

District	District rating	Econ. Disadv. (%)	Test-takers	Percentage of tests rolled up to district or state accountability		
				Building	District	State
Toledo	C	76.6	10,446	87.0	4.3	8.7
Washington	B	53.3	2,991	94.6	0.5	4.9
Springfield	A	36.2	1,858	94.8	0.4	4.7
Rossford	A+	46.4	814	94.8	0.6	4.5
Swanton	A	43.5	626	95.5	0.0	4.5
Oregon	B	41.0	1,858	95.1	0.4	4.5
Lake	A	38.7	761	95.8	0.0	4.2
Maumee	A	31.7	1,192	96.2	0.0	3.8
Perrysburg	A	12.0	2,164	97.0	0.1	2.9
Northwood	A+	42.6	452	97.3	0.0	2.7
Sylvania	A	18.0	3,420	97.6	0.5	1.9
Anthony Wayne	A	12.9	2,125	98.1	0.0	1.8
Ottawa Hills	A	-9.0	501	98.2	0.0	1.8
Evergreen	A	29.4	553	97.3	2.5	0.2

Source: CRP analysis of ODE enrollment records

Appendices

Appendix A. Toledo Area public school districts

Appendix B. Toledo Area public school buildings

Appendix C. Toledo Area public charter schools

The appendix provides basic mobility measures and demographics for all districts and schools in the Cincinnati Area. Additional data fields—including the component values used to calculate stability and churn rates—can be found in online spreadsheets at www.researchpartners.org.

Ring	District	Rating	Average daily enrollment	Enrollment change since school year 2000–2001	Economic disadvantage	Minority race or ethnicity	Limited English Proficiency	Grade 3 reading proficiency, spring assessment	District cohort stability, Oct. 1, 2009–May 15, 2011 Grades K-7	District cohort stability, Oct. 1, 2009–May 15, 2011 Grades 8-11	Building cohort stability, Oct. 1, 2009–May 15, 2011 Grades K-7	Building cohort stability, Oct. 1, 2009–May 15, 2011 Grades 8-11	Churn rate, Oct. 1, 2010–May 15, 2011 Grades K-8	Churn rate, Oct. 1, 2010–May 15, 2011 Grades 9-12	Achievement test roll-up to state level for spring 2011 math test-takers, grades 3–8	Students residing in district but attending charter school — In bricks and mortar public charter school	Students residing in district but attending charter school — In public e-charter school	Inter-district open enrollment — OUT: Residing in district but enrolling in other district	Inter-district open enrollment — IN: Attending district through open enrollment
			#	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Anthony Wayne	A	4,348	32.8	12.9	8.0	0.3	95.9	91.5	88.7	89.4	88.5	4.9	4.5	1.8	0.5	1.1	0.6	0.0
1	Evergreen	A	1,328	4.6	29.4	8.4	0.0	89.3	89.8	86.3	89.4	83.3	6.4	4.7	0.2	0.3	1.3	4.9	7.2
1	Lake-Wood County	A	1,674	-1.2	38.7	15.8	1.4	87.5	88.8	78.4	88.2	73.7	9.5	7.8	4.2	1.1	1.2	4.1	2.1
1	Maumee	A	2,688	-6.7	31.7	16.0	0.9	91.9	90.5	82.9	89.2	80.0	7.5	8.1	3.8	1.8	1.6	0.8	0.0
1	Northwood	A+	1,013	7.7	42.6	15.1	0.0	83.3	89.0	76.5	88.7	73.0	6.8	7.4	2.7	1.6	1.7	1.7	12.1
1	Oregon	B	3,875	7.2	41.0	15.7	0.5	87.5	92.0	86.9	89.7	85.3	6.1	8.0	4.5	2.8	1.1	1.2	4.3
1	Ottawa Hills	A	977	1.2	<5.0	15.7	1.3	98.5	95.3	93.2	95.1	93.2	3.7	3.6	1.8	0.5	0.3	0.2	0.0
1	Perrysburg	A	4,597	13.2	12.0	11.9	0.8	92.8	91.5	87.9	89.3	88.0	6.1	3.6	2.9	0.5	1.2	0.3	0.0
1	Rossford	A+	1,852	-4.0	46.4	10.9	0.0	74.6	85.8	79.8	83.2	74.7	11.0	7.6	4.5	0.9	1.6	1.9	0.0
1	Springfield-Lucas County	A	3,958	17.6	36.2	31.1	1.0	90.9	83.8	76.1	79.9	72.3	12.8	10.6	4.7	2.4	1.3	0.8	0.0
1	Swanton	A	1,371	-12.1	43.5	7.4	0.0	80.5	89.5	79.4	89.3	77.2	9.9	14.2	4.5	0.7	2.3	5.4	6.2
1	Sylvania	A	7,312	-3.4	18.0	14.4	1.6	91.0	91.3	90.4	88.9	90.4	5.5	5.0	1.9	2.0	1.5	0.3	0.0
1	Toledo	C	22,277	-39.4	76.6	60.0	1.5	69.0	74.9	60.1	63.5	49.0	16.5	31.1	8.7	25.2	2.2	0.9	0.7
1	Washington	B	6,618	-4.1	53.3	22.1	1.3	84.2	86.4	82.3	67.7	81.4	11.9	15.8	4.9	3.8	1.7	1.0	0.0
2	Benton Carroll Salem	A	1,830	-11.4	30.8	6.8	0.0	88.5	89.6	89.8	86.2	88.6	7.6	5.8	2.2	0.3	1.2	2.5	5.4
2	Bowling Green	A+	2,936	-9.4	34.4	18.9	0.9	88.4	87.0	83.0	81.9	81.1	10.6	9.0	4.6	0.2	2.1	2.0	1.1
2	Eastwood	A	1,662	-10.8	19.1	7.7	0.0	92.7	90.2	87.3	89.5	85.4	6.2	2.8	2.8	0.3	1.2	1.2	4.9
2	Elmwood	B	1,248	0.3	38.1	<5.0	0.0	82.8	89.9	88.9	89.7	87.8	8.9	4.5	2.4	0.0	1.1	1.6	3.1
2	Fremont	B	4,270	-6.5	58.7	35.6	4.8	76.2	87.1	79.6	77.8	77.0	9.8	11.9	2.9	1.5	1.7	5.7	1.6
2	Genoa Area	B	1,499	-10.5	32.5	9.1	0.0	79.1	92.6	86.9	91.8	84.0	4.9	6.5	2.5	0.5	1.7	2.5	7.5
2	Gibsonburg	A	1,025	-3.3	35.9	12.6	0.0	88.6	92.3	87.9	92.2	86.7	6.9	7.5	2.9	0.0	0.6	3.2	7.1
2	Lakota-Sandusky County	B	1,025	-20.1	48.1	5.2	0.0	71.8	86.8	80.3	85.8	78.0	10.4	7.7	4.2	0.2	2.6	12.9	6.9
2	Liberty Center	A+	1,200	8.6	33.7	<5.0	0.0	92.4	92.4	86.4	92.3	84.9	8.4	9.3	3.2	0.3	1.5	3.4	8.5
2	Otsego	A	1,602	0.0	28.4	7.4	0.0	88.8	88.6	79.6	87.2	76.9	9.2	8.7	3.5	0.2	4.0	2.9	2.7
2	Pike-Delta-York	A	1,311	-16.7	37.8	8.2	0.0	92.4	88.0	81.2	87.9	76.8	9.0	9.7	4.4	0.0	2.0	9.4	7.0
2	Wauseon	A	1,968	-0.6	38.5	19.1	2.0	93.2	92.6	86.9	92.1	84.4	6.8	5.2	3.4	0.0	1.4	4.9	6.3
2	Woodmore	A+	1,088	-9.6	23.9	8.8	0.0	92.7	82.7	80.6	81.9	80.6	16.5	11.0	4.3	0.7	1.1	6.3	5.4

Appendix B. Toledo Area public school buildings, school year 2010–2011 (unless noted)

Toledo Area public school buildings alphabetical by district and school name				District attributes			Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Anthony Wayne	Anthony Wayne High School	9-12	A	1,443	12.7	6.4	88.5	4.5
Anthony Wayne	Anthony Wayne Junior High School	7-8	B	668	13.6	9.1	90.3	5.8
Anthony Wayne	Fallen Timbers Middle School	5-6	A+	746	13.1	8.7	91.8	3.2
Anthony Wayne	Monclova Elementary School	K-4	A	612	8.0	9.4	87.6	5.0
Anthony Wayne	Waterville Primary School	K-4	A	405	15.0	9.5	91.3	4.3
Anthony Wayne	Whitehouse Primary School	K-4	A	474	16.7	8.1	87.6	6.6
Benton Carroll Salem	Carroll Elementary School	K-5	A	137	28.6	8.9	86.5	7.5
Benton Carroll Salem	Graytown Elementary School	K-5	B	120	19.2	10.0	86.1	6.7
Benton Carroll Salem	Oak Harbor High School	9-12	A	597	27.8	6.1	88.6	5.8
Benton Carroll Salem	Oak Harbor Middle School	6-8	A	449	30.7	8.0	90.2	6.2
Benton Carroll Salem	R C Waters Elementary School	K-5	A+	415	37.0	8.5	86.1	8.4
Benton Carroll Salem	Rocky Ridge Elementary School	K-5	B	113	40.2	<5.0	74.5	16.1
Bowling Green	Bowling Green High School	9-12	A	976	26.1	15.9	81.1	9.0
Bowling Green	Bowling Green Middle School	7-8	A+	482	33.0	17.1	92.2	6.4
Bowling Green	Conneaut Elementary School	K-6	A	473	18.8	15.2	90.1	7.1
Bowling Green	Crim Elementary School	K-6	B	268	56.9	29.6	69.6	30.2
Bowling Green	Kenwood Elementary School	K-6	A	462	38.6	20.3	81.2	14.6
Bowling Green	Milton Elementary School	K-6	B	115	65.0	17.2	68.8	18.5
Bowling Green	Ridge Elementary School	K-6	B	144	68.2	36.7	72.7	31.4
Eastwood	Eastwood I High School	9-12	A	603	15.2	8.8	85.4	2.8
Eastwood	Eastwood Middle School	6-8	A	366	24.5	9.4	93.0	4.9
Eastwood	Luckey Elementary School	K-5	A	252	22.2	<5.0	87.4	10.6
Eastwood	Pemberville Elementary School	K-5	A	290	20.0	7.7	92.5	7.7
Eastwood	Webster Elementary School	K-5	A	151	14.8	6.0	80.9	2.0
Elmwood	Elmwood Elementary School	PK-4	B	464	44.2	5.7	89.8	10.7
Elmwood	Elmwood High School	9-12	A	404	29.4	<5.0	87.8	4.5
Elmwood	Elmwood Middle School	5-8	B	381	40.1	5.3	89.6	6.8
Evergreen	Evergreen Elementary School	PK-5	A	601	32.0	10.8	86.9	7.4
Evergreen	Evergreen High School	9-12	A	442	26.7	6.7	83.3	4.7
Evergreen	Evergreen Middle School	6-8	B	276	27.9	6.8	95.7	4.4
Fremont	Atkinson Elementary School	K-6	B	366	66.5	38.4	76.1	11.9
Fremont	Croghan Elementary School	K-6	B	331	70.3	44.2	73.7	16.4
Fremont	Fremont Middle School	7-8	B	585	59.4	36.1	87.1	8.2
Fremont	Fremont Ross High School	9-12	B	1,325	47.6	31.5	77.0	11.9
Fremont	Hayes Elementary School	K-6	B	362	69.7	43.8	70.4	13.6
Fremont	Lutz Elementary School	K-6	B	348	49.6	25.4	85.9	4.4
Fremont	Otis Elementary School	K-6	B	363	70.3	42.9	78.9	16.3
Fremont	Stamm Elementary School	K-6	B	426	73.9	42.2	75.4	15.3
Fremont	Washington Elementary School	K-6	A	163	35.7	14.5	76.8	14.6
Genoa Area	Allen Elementary School	3-5	B	331	33.5	9.7	92.0	4.9
Genoa Area	Brunner Elementary School	K-2	NA	306	33.4	9.8	89.9	4.7
Genoa Area	Genoa Area High School	9-12	A	514	28.0	9.8	84.0	6.5
Genoa Area	Genoa Area Middle School	6-8	B	349	37.3	9.0	93.2	5.2
Gibsonburg	Gibsonburg High School	9-12	A	324	30.1	11.3	86.7	7.6
Gibsonburg	Gibsonburg Middle School	6-8	A	257	39.6	17.6	95.9	8.8
Gibsonburg	James J Hilfiker Elementary School	PK-5	A	443	38.1	10.9	90.5	5.8
Lake	Lake Elementary School	2-5	B	465	45.3	18.3	86.6	11.1
Lake	Lake High School	9-12	A	556	36.0	14.7	73.7	7.8

District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Lake	Lake Middle School	6-8	A+	406	39.8	16.3	90.4	8.1
Lake	Walbridge Elementary School	K-1	NA	248	30.7	13.3	87.8	8.6
Lakota	Lakota Central Elementary School	2-5	C	301	52.2	9.0	86.3	9.7
Lakota	Lakota High School	9-12	B	333	41.9	<5.0	78.0	7.7
Lakota	Lakota Middle School	6-8	B	224	50.5	5.1	91.0	13.7
Lakota	Lakota West Elementary School	PK-1	NA	168	49.8	<5.0	76.3	7.4
Liberty Center	Liberty Center Elementary School	K-4	A	415	37.9	6.2	92.3	6.9
Liberty Center	Liberty Center High School	9-12	A	437	25.1	5.9	84.9	9.8
Liberty Center	Liberty Center Middle School	5-8	A+	348	39.5	<5.0	92.3	10.1
Maumee	Fairfield Elementary School	K-5	A	287	29.3	12.3	92.1	7.7
Maumee	Fort Miami Elementary School	K-5	A	285	33.8	12.4	90.1	9.1
Maumee	Gateway Middle School	6-8	A	593	34.3	15.8	91.4	5.6
Maumee	Maumee High School	9-12	A	944	24.7	14.0	80.0	8.1
Maumee	Union Elementary School	K-5	B	271	46.5	32.6	84.9	13.2
Maumee	Wayne Trail Elementary School	K-5	A	308	35.4	14.9	86.3	4.4
Northwood	Lark Elementary School	PK-1	NA	138	47.8	12.6	74.6	14.6
Northwood	Northwood High School	9-12	B	353	29.9	15.4	73.0	7.4
Northwood	Northwood Middle School	5-8	A+	313	49.2	16.6	89.5	5.1
Northwood	Olney Elementary School	2-4	A	210	50.7	16.3	94.1	4.3
Oregon	Clay High School	9-12	B	1,211	36.0	16.5	85.3	8.0
Oregon	Coy Elementary School	K-5	B	502	49.6	16.8	85.5	7.2
Oregon	Eisenhower Middle School	6-8	B	460	35.7	12.7	92.3	5.4
Oregon	Fassett Middle School	6-8	B	494	47.3	20.8	91.4	7.6
Oregon	Jerusalem Elementary School	K-5	A	281	44.5	12.9	90.7	9.2
Oregon	Starr Elementary School	K-5	B	617	42.4	16.0	93.2	5.5
Oregon	Wynn Elementary School	K-5	B	291	41.5	10.2	83.1	7.5
Otsego	Grand Rapids Elementary School	PK-5	A	378	36.2	10.9	85.6	14.4
Otsego	Haskins Elementary School	PK-5	A	318	19.4	<5.0	85.7	4.6
Otsego	Otsego High School	9-12	A	540	26.1	6.8	76.9	8.7
Otsego	Otsego Junior High	6-8	A	366	31.5	10.8	91.0	8.4
Ottawa Hills	Ottawa Hills Elementary School	K-6	A	499	<5.0	17.4	94.6	4.0
Ottawa Hills	Ottawa Hills High School	7-12	A	478	<5.0	13.8	94.2	3.4
Perrysburg	Fort Meigs Elementary School	K-5	A+	557	8.4	16.0	92.3	5.6
Perrysburg	Frank Elementary School	K-5	A+	465	14.0	12.1	88.3	7.7
Perrysburg	Perrysburg High School	9-12	A	1,382	9.2	10.6	88.0	3.7
Perrysburg	Perrysburg Junior High School	6-8	A	1,080	12.4	12.4	89.0	4.8
Perrysburg	Toth Elementary School	K-5	A	529	12.9	8.0	88.3	5.6
Perrysburg	Woodland Elementary School	K-5	A	584	19.0	14.3	88.8	9.4
Pike-Delta-York	Delta Elementary School	K-4	B	488	40.8	8.6	87.0	10.2
Pike-Delta-York	Pike-Delta-York High School	9-12	A	429	32.9	8.3	76.8	9.7
Pike-Delta-York	Pike-Delta-York Middle School	5-8	A	393	39.3	9.7	88.9	7.5
Rossford	Eagle Point Elementary School	K-6	A	320	41.3	11.0	78.4	10.9
Rossford	Glenwood Elementary School	K-6	A	439	59.3	13.6	81.1	16.5
Rossford	Indian Hills Elementary School	K-6	A+	235	41.7	11.5	89.3	7.3
Rossford	Rossford High School	9-12	A	603	42.8	9.2	74.7	7.6
Rossford	Rossford Junior High School	7-8	A+	253	43.9	9.5	90.5	10.4
Springfield	Crissey Elementary School	K-5	A	422	37.5	22.1	82.2	8.6
Springfield	Dorr Street Elementary School	K-5	A	495	49.1	34.4	73.6	19.1
Springfield	Holland Elementary School	K-5	B	541	44.6	38.3	76.9	17.8
Springfield	Holloway Elementary School	K-5	A	413	40.8	37.6	76.7	17.4

Toledo Area public school buildings alphabetical by district and school name		District attributes					Mobility measures	
District	School building	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Springfield	Springfield High School	9-12	A	1,165	21.3	28.0	72.3	10.6
Springfield	Springfield Middle School	6-8	A	922	40.6	31.0	87.3	11.3
Swanton	Crestwood Elementary School	K-2	NA	289	50.6	7.9	86.5	10.2
Swanton	Park Elementary School	3-5	B	303	45.6	6.2	88.7	11.1
Swanton	Swanton High School	9-12	A	455	37.7	10.4	77.2	14.2
Swanton	Swanton Middle School	6-8	A	324	43.4	9.2	92.5	8.6
Sylvania	Central Elementary School	K-5	A	542	9.1	17.0	92.0	4.1
Sylvania	Highland Elementary School	K-5	A	642	<5.0	7.1	92.6	4.1
Sylvania	Hill View Elementary School	K-5	B	415	33.8	10.9	88.5	11.7
Sylvania	Maplewood Elementary School	K-5	A	362	16.9	10.1	91.5	6.9
Sylvania	Stranahan Elementary School	PK-5	B	473	28.7	21.7	83.3	10.1
Sylvania	Sylvan Elementary School	K-5	B	334	24.9	18.8	85.2	4.4
Sylvania	Sylvania Arbor Hills Junior High School	6-8	A	554	28.6	14.8	89.8	6.6
Sylvania	Sylvania Mccord Junior High School	6-8	A	608	12.0	10.9	88.3	4.2
Sylvania	Sylvania Northview High School	9-12	A	1,213	13.0	9.1	91.1	4.4
Sylvania	Sylvania Southview High School	9-12	A	1,239	19.2	19.8	89.7	5.8
Sylvania	Sylvania Timberstone Junior High School	6-8	A	549	19.4	19.3	92.0	5.7
Sylvania	Whiteford Elementary School	K-5	A	382	20.8	16.5	81.3	8.2
Toledo	Allied Health Academy	9-12	F	260	86.3	>95.0	5.3	4.2
Toledo	Arlington Elementary School	K-6	B	422	76.6	39.9	72.2	20.0
Toledo	Beverly Elementary School	K-6	A	332	34.7	16.9	81.5	14.8
Toledo	Birmingham Elementary School	K-8	C	328	94.7	44.5	68.4	25.7
Toledo	Bowsher High School	9-12	B	1,341	50.8	51.3	64.6	27.3
Toledo	Burroughs Elementary School	K-6	C	430	83.0	52.2	69.6	18.3
Toledo	Business Technology and Industry Academy	9-12	F	278	85.5	>95.0	28.6	8.3
Toledo	Byrnedale Middle School	7-8	C	562	63.0	42.8	76.7	20.1
Toledo	Chase STEM Academy	K-6	C	202	94.1	80.5	53.4	42.3
Toledo	Crossgates Elementary School	K-6	B	366	53.5	45.0	72.1	18.5
Toledo	DeVeaux Middle School	6-8	C	821	71.8	47.7	67.4	23.5
Toledo	East Broadway Middle School	7-8	C	435	91.4	48.7	63.1	35.1
Toledo	East Side Central Elementary School	K-6	C	389	>95.0	54.8	51.5	50.0
Toledo	Edgewater Elementary School	K-5	B	192	79.1	24.6	64.2	19.8
Toledo	Ella P. Stewart Academy for Girls	K-5	D	273	>95.0	>95.0	66.9	29.1
Toledo	Elmhurst Elementary School	K-5	A	345	31.8	20.7	75.0	9.6
Toledo	Fulton Achievement Center	1-12	NA	126	92.8	76.9	42.1	72.4
Toledo	Garfield Elementary School	K-6	C	343	90.7	49.6	60.3	34.3
Toledo	Glendale-Feilbach Elementary School	K-6	C	217	66.0	55.4	63.8	14.8
Toledo	Glenwood Elementary School	K-5	F	296	>95.0	92.8	52.5	50.0
Toledo	Grove Patterson Academy Elementary School	K-8	B	372	49.1	62.9	79.4	3.9
Toledo	Harvard Elementary School	K-6	B	394	49.7	35.7	80.5	9.9
Toledo	Hawkins Elementary School	K-5	C	471	65.7	51.1	72.8	25.4
Toledo	Keyser Elementary School	K-5	D	323	94.3	80.6	52.8	28.0
Toledo	Lagrange Elementary School	K-6	F	275	>95.0	87.7	48.3	51.2
Toledo	Larchmont Elementary School	K-6	B	392	65.9	35.9	65.8	20.8
Toledo	Leverette Middle School	7-8	D	374	>95.0	75.5	59.0	33.8
Toledo	Longfellow Elementary School	K-5	B	370	71.8	38.8	70.9	15.4
Toledo	Marshall Elementary School	K-5	D	215	>95.0	51.1	54.0	37.9
Toledo	Martin Luther King Academy for Boys Elem. School	K-5	C	257	>95.0	>95.0	18.7	41.6
Toledo	McKinley Elementary School	K-5	C	287	93.5	91.2	58.1	32.6
Toledo	McTigue Middle School	6-8	D	514	78.4	73.7	57.5	34.6

Toledo Area public school buildings alphabetical by district and school name		Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
District	School building			#	%	%	%	%
Toledo	Navarre Elementary School	K-6	C	399	94.9	48.1	62.4	35.7
Toledo	Oakdale Elementary School	K-6	C	455	86.7	39.8	71.8	16.9
Toledo	Old Orchard Elementary School	K-5	B	237	81.6	73.6	60.8	23.4
Toledo	Old West End Academy Elementary School	K-8	B	288	76.2	>95.0	81.1	5.1
Toledo	Ottawa River Elementary School	K-8	B	493	58.8	19.6	89.1	8.8
Toledo	Pickett Elementary School	K-5	F	374	>95.0	92.5	56.6	43.8
Toledo	Raymer Elementary School	K-6	C	429	90.3	43.1	65.8	30.6
Toledo	Reynolds Elementary School	K-5	D	372	93.6	82.2	51.4	33.3
Toledo	Riverside Elementary School	K-6	D	376	>95.0	60.1	67.3	38.4
Toledo	Robinson Middle School	6-8	F	408	>95.0	>95.0	61.2	32.0
Toledo	Rogers High School	9-12	B	768	60.9	79.8	45.6	39.5
Toledo	Rosa Parks Elementary School	K-5	F	240	>95.0	94.0	46.9	36.9
Toledo	Samuel M. Jones at Gunckel Park Middle School	6-8	F	315	>95.0	83.3	42.9	54.5
Toledo	Scott High School	9-12	NA	124	84.0	>95.0	1.4	149.3
Toledo	Sherman Elementary School	K-6	F	353	>95.0	88.3	54.2	51.6
Toledo	Spring Elementary School	K-6	F	292	>95.0	87.3	46.2	51.6
Toledo	Start High School	9-12	A	1,271	51.8	48.4	55.6	36.5
Toledo	Toledo Early College High School	9-12	A	209	44.3	51.0	69.7	5.4
Toledo	Toledo Technology Academy High School	9-12	A	166	51.5	30.5	80.6	10.5
Toledo	Waite High School	9-12	C	1,019	81.4	48.2	51.6	43.0
Toledo	Walbridge Elementary School	K-5	B	230	>95.0	63.3	49.5	48.6
Toledo	Westfield Elementary School	K-5	D	263	>95.0	67.1	49.8	61.1
Toledo	Whittier Elementary School	K-5	C	221	75.9	41.9	67.6	14.0
Toledo	Woodward High School	9-12	D	706	84.3	78.1	45.5	36.8
Washington	Greenwood Elementary School	K-6	B	442	71.5	37.0	81.1	20.7
Washington	Hiawatha Elementary School	K-6	A	333	54.4	19.8	56.3	18.6
Washington	Jackman Elementary School	K-6	B	436	58.0	22.2	82.9	15.3
Washington	Jefferson Junior High School	7	A+	525	55.6	24.3	-	11.5
Washington	Mcgregor Elementary School	K-6	A	392	53.1	20.4	84.2	12.0
Washington	Meadowvale Elementary School	K-6	B	554	56.4	25.4	81.3	13.8
Washington	Monac Elementary School	K-6	B	457	53.2	21.5	83.5	10.9
Washington	Shoreland Elementary School	K-6	B	586	52.4	14.6	85.1	12.5
Washington	Washington Junior High School	8	B	489	54.2	19.8	0.0	12.1
Washington	Wernert Elementary School	PK-6	B	369	67.2	27.5	81.0	13.3
Washington	Whitmer High School	9-12	B	2,030	44.5	20.0	81.4	15.8
Wauseon	Wauseon Elementary School	3-5	A	436	45.3	22.5	93.6	8.6
Wauseon	Wauseon High School	9-12	A	665	29.4	16.6	84.4	5.2
Wauseon	Wauseon Middle School	6-8	A	442	43.6	17.0	91.7	5.7
Wauseon	Wauseon Primary School	K-2	NA	424	40.6	22.1	90.9	6.3
Woodmore	Woodmore Elementary School	K-6	A+	532	28.9	9.4	80.5	18.1
Woodmore	Woodmore High School	7-12	C	556	19.1	8.7	82.6	11.1

Toledo Area public charter schools alphabetical by school name		District attributes					Mobility measures	
District of location	School *denotes dropout recovery school	Grade range	Rating	Average daily enrollment	Economic disadvantage	Minority race or ethnicity	Two-year building cohort stability	One-year churn rate
				#	%	%	%	%
Toledo	Achieve Career Preparatory Academy*	9-12	F	252	>95.0	95.0	26.5	72.9
Toledo	Aurora Academy	K-8	C	135	>95.0	48.6	48.6	18.9
Washington	Autism Model School	K-12	NA	80	47.8	31.2	88.6	7.9
Toledo	Bennett Venture Academy	K-8	C	655	80.2	48.1	72.9	10.6
Toledo	Bridge Academy of Ohio	K-5	C	83	84.8	20.9	44.6	11.1
Toledo	Central Academy of Ohio	K-12	C	53	>95.0	21.4	61.5	8.2
Toledo	Clay Avenue Community School	K-12	D	334	67.1	93.5	67.0	11.6
Toledo	Eagle Academy	K-12	D	293	52.0	52.4	69.1	23.3
Oregon	Eagle Learning Center*	9-12	F	127	<5.0	27.4	15.0	135.0
Toledo	Glass City Academy*	11-12	C	137	<5.0	88.4	7.6	134.9
Toledo	Horizon Science Academy Toledo	K-12	C	257	73.7	80.9	58.9	26.7
Toledo	Horizon Science Academy-Springfield	K-12	B	245	87.4	77.9	47.3	16.7
Toledo	Imani Learning Academy	K-8	D	189	84.9	>95.0	62.5	10.8
Toledo	Knight Academy	5-8	C	190	41.4	73.2	59.0	27.2
Toledo	L. Hollingworth School for Talented and Gifted	K-8	C	213	88.5	70.6	54.8	22.4
Toledo	Lake Erie Academy	K-8	F	215	94.7	>95.0	50.7	45.4
Toledo	Life Skills Center Of Toledo*	9-12	D	213	92.3	85.2	9.9	180.5
Toledo	Madison Avenue School of Arts	K-5	D	383	55.2	88.0	75.3	8.6
Toledo	Meadows Choice Community	K-9	D	147	93.6	49.6	39.0	40.6
Fremont	North Central Academy-Fremont	9-12	C	46	29.4	24.4	-	100.0
Toledo	Northpointe Academy	K-12	D	336	<5.0	>95.0	0.0	23.6
Toledo	Phoenix Academy Community School*	7-12	F	756	26.5	52.9	21.7	138.6
Toledo	Polly Fox Academy Community School*	7-12	F	120	>95.0	69.3	30.4	96.9
Toledo	Star Academy of Toledo	K-12	C	2,453	94.1	90.3	41.2	43.0
Toledo	Summit Academy Community School-Toledo	K-10	F	171	76.9	53.1	65.4	12.8
Toledo	Summit Academy Secondary School - Toledo	8-12	D	77	79.0	48.8	72.7	8.9
Toledo	The Autism Academy Of Learning	K-12	NA	51	80.6	53.9	93.0	1.9
Toledo	The Maritime Academy of Toledo	5-12	D	224	74.7	66.1	34.4	28.9
Toledo	Toledo Preparatory Academy	6-12	F	116	<5.0	>95.0	57.0	49.5
Toledo	Toledo Preparatory and Fitness Academy	K-8	A	95	89.1	87.0	46.8	21.6
Toledo	Toledo School For The Arts	6-12	A	581	35.4	31.6	87.5	1.5
Toledo	Victory Academy of Toledo	K-8	F	90	>95.0	>95.0	23.4	63.0
Springfield	Wildwood Environmental Academy	K-12	C	288	50.4	31.1	69.2	19.0
Toledo	Winterfield Venture Academy	K-8	D	554	91.9	86.8	64.7	15.3