

Parkway School District
Final Report to the Project Parkway Steering Committee
Submitted: November 1, 2010



Start Times & Length of School Day

TASK FORCE REPORT

*“To ensure all students are capable, curious and confident learners
who understand and respond to the challenges
of an ever-changing world.”*

Mission Statement
Parkway School District
2011-2016 Strategic Plan



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Area School Comparison Att. 1

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Our task force collected data about the length of the school day and about school start and end times. This report contains a review of the current literature on both topics, a schedule and achievement comparison between Parkway and surrounding school districts, transportation schedules and costs, sports and activities, the impact of change on teacher contracts and a list of discussion topics.

Review of the Literature

All articles are available on the link provided.

Address: <http://www.parkwayschools.net/technology/taskforce/>

Username: taskforce

Password: parkway

Members

Our task force included:

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Summary of Start Time Literature

Sleep Patterns in Children & Adolescents

Elementary aged school children (5-12) typically need between 10-11 hours of sleep per night¹ and most adolescents need slightly more than 9 hours of sleep each night.² Currently in the U.S., the average adolescent only gets 6-7 hours of sleep each night.³

With the onset of puberty, adolescents develop as much as a 2 hour delay in their sleep-wake patterns, tending to go to bed increasingly later into the evening.⁴ This shift in adolescent sleep-wake pattern is biological, and has been documented in adolescents worldwide.⁵ The shift is caused by a delayed evening onset of melatonin.⁶ Due to this shift, levels of melatonin remain very high in adolescents in the early morning, making their bodies and brains sluggish and not ready to function.⁷ From ages 10-17, there is an increasing biological shift in adolescents from morningness to eveningness.⁸ The sleep delay does not appear to be the result of psychosocial issues or demands, but is generally biologically based.

Consequences of adolescent sleep debt

Multiple studies have evaluated the adverse consequences of adolescent sleep debt, which include memory lapses, inattentiveness, decreased alertness and concentration, moodiness, irritability, impulsivity, higher stress levels, decreased ability for divergent thinking, diminished academic performance, poorer grades, tardiness, and higher absence rates.⁹ Moreover, for each hour of lost sleep, the adolescents' odds of developing obesity increases 80%.¹⁰

The overwhelming need for sleep replaces alertness, cognition, memory or understanding.¹¹ It impairs the adolescents' level of abstract thinking, and impairs students' ability to perform cognitive and emotional tasks simultaneously.¹² Cutting just one hour of sleep drops mental alertness by one-third.¹³

Effect of a later school start time

Individual schools or districts in 19 states have pushed back their start times, and more than 100 school districts in an additional 17 states are considering delaying their start times.¹⁴ Several studies have examined the impact to students when their school changed to later start time. Given the time and space limitations of the report, the following is as representative of the multitude of studies and discussions as possible.

Elementary:

There is little available data on the effect of early versus late school start times for elementary students. The most typical arrangement for school start times has been high school starting earliest, middle schools arriving later, and elementary students being the last to begin. Teachers in Minneapolis elementary schools with a new, earlier starting time of 7:40 reported that as many as 25% of the students were tardy¹⁵ and concerns regarding after school care for those who depend on older siblings have been reported.¹⁶ Another study found that school start times seem to influence 5th and 6th graders' sleep schedules. Students attending a later starting elementary school reported less daytime sleepiness.¹⁷ The National Sleep Foundation states "Research is lacking on the effect of school start times on younger students, so it is hard to justify their earlier start."

Middle School:

In New England, a study which compared a middle school with a 7:15 start time to another with an 8:37

start time, found that students at the later starting school got 3.5 hours of additional sleep during the school week, suffered less daytime sleepiness, experienced fewer sleep-wake behavior problems, and were 4 times less likely to be tardy.¹⁸

One study suggests that there is a point of diminishing returns when school begins much later in the morning. Despite the benefits of later start times, when the Edina Minnesota School District delayed middle school and some elementary school start times to 9:40, teachers reported students were more difficult to motivate at the end of the day due to student and teacher fatigue, teachers were less effective managing student behavior and were more impatient, and teachers complained that students involved in extra-curriculars often needed early dismissal, missing all or part of their last academic period.¹⁹

High School:

In a Rhode Island study, when high school start times were delayed from 8:00 to 8:30, the percentage of students getting less than 7 hours of sleep decreased from 33.8% to 7.0%. The percentage of students getting at least 8 hours of sleep increased from 16.4% to 54.7%. Moreover, students reported a decrease in daytime sleepiness and reduced depression.²⁰

In a Minneapolis study, when high school start times were delayed from 7:15 to 8:40, students were more alert; absenteeism and tardiness were reduced; and students reported fewer depressive symptoms, higher grades, and were more awake during class and study time. Students reported getting about one hour of additional sleep each night.²¹

In Edina, Minnesota, when high school start times were delayed by 70 minutes, there was less student misbehavior in the hallways and lunchroom, students were more alert and rested for the first hour of class, and they received about one additional hour of sleep each school night.²²

In North Clackamas School District in Oregon, when high school start times were delayed from 7:30 a.m. to 8:45 a.m., the benefits were improved attendance and improved GPA in the first period classes for high school students.²³

Although some research indicates that a later start time might improve high school grades, a study comparing standardized test results found that it did not increase ACT scores in the Minneapolis area; reading, math, social studies and science assessment scores in Kansas; or statewide end-of-course exam scores in the Arlington, Virginia area.²⁴

Summary of Length of Day Literature

Elementary lunch period and its impact on children's health:

- Students need approximately 10 minutes for actual food consumption. Time in line, bussing tables and socializing are time usage factors.²⁵
- Children who have a 30-minute lunch period consume significantly more food and nutrients than those who have a 20-minute lunch period, and they also waste less.²⁶
- A relationship exists between child obesity and the hectic school lunch period.²⁷

Lengthening the school day (and/or year) to improve student achievement:

Increasing time at school appears to increase achievement; *however*,

- The research featured urban, low income schools.²⁸
- Quality of teaching and the structure of the day (how time is used) were more important than the

amount of time in school.²⁹

- Students in some countries spend far less time in school than American students, but perform higher on international tests of achievement.³⁰
- There are flaws in comparing achievement data. Different accountability practices are used³¹
- Higher-income kids keep up the pace during the summer while lower-income kids plateau or lose ground³²

In addition:

- Schools with lost school days due to cancellation have lower test scores.³³

Area School Comparison of Length of Day and Start Times

Our task force compared Parkway's length of day/start times and achievement data with other districts in the St. Louis area using the 2010 MAP and EOC scores. We observed no relationship between the length of the school day and student achievement or start time and student achievement.

- Area elementary schools generally begin between 8:20 and 9:00; Parkway schools begin between 7:55 and 9:00. However, in terms of the length of school day, Parkway elementary schools have the second shortest day at 6 hours 35 minutes.
- Area middle school start times range from 7:10 to 9:00. The median (and most frequent) start time is 8:05. Parkway middle schools start at either 7:20 or 7:25. Parkway middle schools are in session 6 hours 55 minutes, which is within the range of other area middle schools.
- Area high schools start their day between 7:15 and 8:20. All traditional Parkway high schools begin their day at 8:00. The length of day for the area high schools are consistently between 6 hours 40 minutes and 7 hours. Parkway high schools fall within that range, with days that are between 6 hours 50 minutes and 6 hours 55 minutes.

Transportation

Our current bus transportation system has flexibility within the schedule to accommodate changes. The attached report gives an example of bus transportation changes that could accommodate lengthening the elementary school day with a later start time at the middle schools. The example has no projected increase in cost.

If changes are implemented that require additional buses, the estimated cost of a single, new bus is \$70,000. Maintenance and fuel costs per bus averages about \$6350 per year. One additional driver including wages/benefits, costs \$22,601 annually at this time.

While transportation must be considered in start/end times or length of day adjustments, our findings reveal that bus transportation would not preclude change.

After School Activities

Elementary

Several Parkway elementary administrators were contacted to address concerns. In general, most administrators believed that programs offered by outside sources and tutoring sessions organized by the schools would be able to adjust to most time changes. Many would like to be able to offer more school sponsored activities which could be impacted by change. They also expressed concern that many families (estimated as high as 25%) are single-parent households who depend on older siblings to care for younger

students after-school.

Middle School

- Currently, after-school extra-curricular clubs and sports are offered 3 days a week at the Parkway middle schools. Almost all of these meet only once per week. Approximately 50-80% of students participate in at least one club or activity.
- Middle school administrators believe that a start time of approximately 8:20 will not significantly affect after-school activities.³⁴
- However, most of the administrators felt an after-school program would not be feasible if the middle school day began at 9:00.³⁵ Most administrators felt that a before-school program starting around 8:00 a.m. could be successful.³⁶
- Many articles suggest that a later middle school start time will reduce the amount of time that students are home alone after school, which could lead to less risk-taking student behavior, such as drug and alcohol abuse, smoking, and sex.³⁷

High School Athletics, Activities, and Employment

Later start times could impact schools in the following ways:

- Some students may need early dismissal to make their activities because many high school extracurricular events in the St. Louis area begin around 4:15 p.m. Parkway teams often compete against high schools outside of the west county area, and this requires longer travel times.³⁸
- A significant change in high school start/end times could impact a student's after-school employment.
- After-school team practices would run later into the evening, thus getting students home later in the evening. Not all fields have lights.
- Multiple research articles suggest that additional sleep helps student athletes' performance.³⁹

Teacher contracts

The work hours for teachers at Parkway are defined in the Parkway Agreement: Agreement between the Parkway Board of Education and the Parkway National Education Association. Currently, teacher school hours are defined as starting 20 minutes before the opening of school each day and ending 20 minutes after the scheduled dismissal of students. Based on discussions with Parkway's Director of Human Resources, if the decision was made to lengthen the school day, one of the ways to accomplish this would be to reduce the number of minutes defining the teacher day before and after school. This type of change could impact teacher supervision of students before and after school. It was the feeling of the Director of Human Resources and PNEA representatives that any attempts to lengthen the school day outside of manipulation of the 20 minutes before or after school would require a significant discussion by the members of the collective bargaining unit.

Discussion Points/Additional Thoughts

Our task force assignment could not be researched in isolation. Several important points were made in our discussions and are listed here:

- The needs of our VST students were not specifically addressed in our task force.
- Researchers found that changing a school's starting time provokes the same kind of emotional

reaction from stakeholders as closing a school or changing a school's attendance area.⁴⁰

- There are benefits to making the start time change under an interim superintendent. The change to a drastically later high school start time was made in the Minneapolis school district under an interim superintendent, and researchers noted that "when the new superintendent took over, she 'inherited' that decision and any perceived negatives related to its implementation were not associated with her."⁴¹
- The National Sleep Foundation has recommended some strategies to assist districts in changing school times (<http://www.sleepfoundation.org/article/hot-topics/general-advocacy-tips-changing-school-start-times>)
- The task force discussed moving study halls and academic labs to the last period of the day, so that if students needed early dismissal, they won't be missing instruction.
- Start times before 8:00 a.m. for any students would go against published research.

Closing Remarks

This Task Force was made up of Parkway teachers, administrators, parents and staff. Each member invested countless hours researching and discussing how these topics would impact student achievement. The goal was to look through the lens of a board member and identify the most important research needed to make decisions regarding these topics. Our task force members are committed to researching any additional, specific questions the Board of Education has as they address this topic.

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¹ National Sleep Foundation, www.sleepfoundation.org.

² Noland 2009 citing Wolfson 1998.

³ National Sleep Foundation, <http://www.sleepfoundation.org/article/hot-topics/backgrounder-later-school-start-times>

⁴ Heurich 2005 citing Dahl, Carskadon; Owens 2010 citing Carskadon 1993, Crowley 2007; Wolfson (citing Carskadon 1990 and 4 others)

⁵ Carskadon 1999.

⁶ Heurich 2005 citing Dahl, Carskadon; Owens 2010 citing Carskadon 2002 and Carskadon 2004.

⁷ Hirschfeld citing Banks 2001.

⁸ Randlera (citing); Owens 2010 citing Carskadon 2002 and Carskadon 2004.

⁹ Tardiness, falling asleep in school, decrease in motivation, irritability, moodiness and frustration- Dahl 1999; Memory lapses, attention deficits, depressed mood, and slowed reaction time, decreased ability for divergent thinking and poorer grades - Carskadon 1999; Lower grades, decreased alertness and concentration, higher stress levels, and an increase in anger, impulsivity and sadness - Noland 2009 citing Taras 2005, Curcio 2006, Wolfson 2003; Memory deficits, impaired performance and alertness- Wahlstrom 2002 citing Anderson 1991, Dahl 1996, Barron 1994, Carskadon 1994, Pilcher 1996; Obesity - Noland citing Beebe 2006, Gupta 2002, Agras 2004, Lumeng 2007.

¹⁰ Noland 2009 citing Gupta 2002.

¹¹ Hirschfeld 2005 citing Carpenter 2001.

¹² Hirschfeld 2005 citing Malhi 1999; Heurich 2005 citing Dahl 1999.

¹³ Hirschfeld 2005 citing Anderson 2003.

¹⁴ National Sleep Foundation, www.sleepfoundation.org.

¹⁵ Donahoo, Saran, "Should Teens Sleep In? New Choices in School Starting Times," *Adoption Library*. See <http://www.library.adoption.com>. Citing Kubow, Patricia K; Wahlstrom, Kyla L.; & Bemis, Amy E. (1999). Starting time and school life: Reflections from educators and students. *Phi Delta Kappan*, 80(5), 366-371.

¹⁶ Donahoo, Saran, "Should Teens Sleep In? New Choices in School Starting Times," *Adoption Library*. See <http://www.library.adoption.com>. Citing Wrobel, Gordon D. (1999). The impact of school starting time on family life. *Phi Delta Kappan*, 80(5), 360-364. (ERIC Journal No. EJ579412)

¹⁷ Spaulding, N., Butler, E., Daigle, A. Dandrow, C., & Wolfson, A. R. (2005). Sleep habits and daytime sleepiness in students attending early versus late starting elementary schools. *Sleep*, 28(Suppl.), C228, A78.

¹⁸ Wolfson, 2007

¹⁹ Kubow 1999.

²⁰ Owens 2010. The study noted that several problems remained. After the switch to the later start time, still only 11% reported getting the recommended 9 hours of sleep on school nights, a "weekend oversleep" of 3 hours persisted, and 66.2% still reported being sleepy doing homework and 18% still reported falling asleep in morning class.

²¹ Dawson 2005 citing Wahlstrom 1998, also noting there was reduced absenteeism and tardiness, and that the later start time did not appear to restrict student participation in extra-curricular sports and activities.

²² Kubow 1999, also noting there was no appreciable decrease in student involvement in extra-curriculars and that more students came to school early to seek help from teachers .

²³ Leagues of Women Voters of Marion and Polk Counties, 2005.

²⁴ Hinrichs 2010.

²⁵ Conklin 2001.

²⁶ Bergman 2004.

²⁷ Bhatt 2009.

²⁸ Adler 2009, Cape Cod Times 2007.

²⁹ Marcotte 2010, Baines 2007.

³⁰ Baines 2007

³¹ Marcotte 2010.

³² David Von Drehle, 2010

³³ Marcotte 2010.

³⁴ A member of the task force spoke with the principals of Parkway West, South, and Southwest Middle Schools, as well as an assistant principal at Parkway Central and Northeast Middle School

³⁵ Most administrators believed that most teachers would be unavailable to sponsor after school activities with a school day ending at 4:00 because of family and personal commitments. At least one administrator also felt that parents would not want their middle schoolers arriving home from after school activities at 5:30-6:00 p.m., even later for the students residing in St. Louis city.

³⁶ Will Rosa, Parkway's Director of Transportation, indicated it may be feasible to run before-school activity buses to 3 middle schools on Monday/Wednesday, and to the other 2 middle schools on Tuesday/Thursday. However, two administrators questioned whether middle schoolers would be willing to participate in intramural sports before school since middle schoolers do not like to shower in the locker rooms. Another administrator expressed concern about reducing the number of days that middle school extra-curricular activities are offered.

³⁷ Students home alone for more than 3 hours or more after school had lower self-esteem and academic efficacy, and higher levels of depression and behavior problems. Mertens, S. B., Flowers, N., & Mulhall, P. F. (2003) Should middle grades students be left alone after school? *Middle School Journal*, 34(5); Eighth graders unsupervised for 11 or more hours per week were twice as likely to abuse drugs and alcohol and were at a substantially higher risk for truancy, poor grades, and risk-taking behavior. J. L. Richardson et al., "Substance Use among Eighth-Grade Students who Take Care of Themselves After School," *Pediatrics* 84 (3); The after school hours are the peak time for juvenile crime and experimentation with drugs, alcohol, cigarettes and sex.
http://www.afterschoolalliance.org/Research%20Factsheets%202010/Fact_Sheet_Afterschool_Essential_3_22_2010.pdf citing Fight Crime: Invest in Kids, 2002.

³⁸ Brian Kessler, West High Athletic Director, presented this information to the task force.

³⁹ NPR reports on a Stanford University study: New research adds to a growing body of evidence showing the perks of a good night's sleep. A study from researchers at Stanford University finds that extra hours of sleep at night can

help improve football players' performance on drills such as the 40-yard dash and the 20-yard shuttle.
<http://www.npr.org/templates/story/story.php?storyId=127478147>

⁴⁰ Wahlstrom, 1999.

⁴¹ Wahlstrom, 1999.

**Grade 5 Rankings on 2010 MAP
Communication Arts**

District	School	Start Time	End Time	Length of Day
1-KIRKWOOD R-VII	NORTH GLENDALE ELEM.	8:40	15:31	6:51
2-KIRKWOOD R-VII	GEORGE R. ROBINSON ELEM.	8:40	15:31	6:51
3-LINDBERGH SCHOOLS	CRESTWOOD ELEM.	8:45	15:25	6:40
4-ROCKWOOD R-VI	KELLISON ELEM.	8:23	15:13	6:50
5-ROCKWOOD R-VI	FAIRWAY ELEM.	9:00	15:50	6:50
6-ROCKWOOD R-VI	KEHRS MILL ELEM.	9:00	15:50	6:50
7-CLAYTON	GLENRIDGE ELEM.	8:40	15:30	6:50
8-LINDBERGH SCHOOLS	TRUMAN ELEM.	8:45	15:25	6:40
9-ROCKWOOD R-VI	WILD HORSE ELEM.	8:23	15:13	6:50
10-CLAYTON	MERAMEC ELEM.	8:25	15:30	7:05
11-ROCKWOOD R-VI	RIDGE MEADOWS ELEM.	9:00	15:50	6:50
12-SPECL. SCH. DST. ST. LOUIS CO.	LITZSINGER	8:45	15:25	6:40
13-CLAYTON	RALPH M. CAPTAIN ELEM.	8:40	15:30	6:50
14-LADUE	REED ELEM.	8:45	15:35	6:50
15-LADUE	CONWAY ELEM.	8:45	15:35	6:50
16-ROCKWOOD R-VI	ELLISVILLE ELEM.	9:00	15:50	6:50
17-ROCKWOOD R-VI	CHESTERFIELD ELEM.	9:00	15:50	6:50
18-PARKWAY C-2	SHENANDOAH VALLEY ELEM.	9:00	15:35	6:35
19-WEBSTER GROVES	EDGAR ROAD ELEM.	8:30	15:10	6:40
20-PATTONVILLE R-III	WILLOW BROOK ELEM.	8:50	15:35	6:45
21-SPECL. SCH. DST. ST. LOUIS CO.	SOUTHVIEW	9:00	15:35	6:35
22-KIRKWOOD R-VII	W. W. KEYSOR ELEM.	8:40	15:33	6:53
23-KIRKWOOD R-VII	F. P. TILLMAN ELEM.			0:00
24-ROCKWOOD R-VI	POND ELEM.	9:00	15:50	6:50
25-ROCKWOOD R-VI	WOERTHER ELEM.	9:00	15:50	6:50
26-ROCKWOOD R-VI	GREEN PINES ELEM.	8:23	15:13	6:50
27-WEBSTER GROVES	BRISTOL ELEM.	8:20	15:00	6:40
28-ROCKWOOD R-VI	BABLER ELEM.	9:00	15:50	6:50
29-ROCKWOOD R-VI	UTHOFF VALLEY ELEM.	9:00	15:50	6:50
30-LINDBERGH SCHOOLS	LONG ELEM.	8:35	15:15	6:40
31-ROCKWOOD R-VI	BLEVINS ELEM.	9:00	15:50	6:50
32-LINDBERGH SCHOOLS	KENNERLY ELEM.	8:35	15:15	6:40
33-PARKWAY C-2	MASON RIDGE ELEM.	9:00	15:35	6:35
34-MEHLVILLE R-IX	ROGERS ELEM.	8:05	14:50	6:45
35-BRENTWOOD	MARK TWAIN ELEM.	8:10	15:05	6:55
36-LADUE	OLD BONHOMME ELEM.	8:45	15:35	6:50
37-ROCKWOOD R-VI	GEGGIE ELEM.	9:00	15:50	6:50
38-PARKWAY C-2	RIVER BEND ELEM.	9:00	15:35	6:35
39-WEBSTER GROVES	CLARK ELEM.	8:30	15:10	6:40

**Grade 5 Rankings on 2010 MAP
Communication Arts**

District	School	Start Time	End Time	Length of Day
40-PARKWAY C-2	HIGHCROFT RIDGE ELEM.	8:25	15:00	6:35
41-ROCKWOOD R-VI	BOWLES ELEM.	9:00	15:50	6:50
42-KIRKWOOD R-VII	WESTCHESTER ELEM.	8:45	15:40	6:55
43-ROCKWOOD R-VI	WESTRIDGE ELEM.	8:23	15:13	6:50
44-LADUE	SPOEDE ELEM.	8:45	15:35	6:50
45-PARKWAY C-2	PIERREMONT ELEM.	7:55	14:30	6:35
46-PARKWAY C-2	BELLERIVE ELEM.	8:25	15:00	6:35
47-PARKWAY C-2	GREEN TRAILS ELEM.	8:30	15:05	6:35
48-PARKWAY C-2	BARRETTS ELEM.	9:00	15:35	6:35
49-WEBSTER GROVES	HUDSON ELEM.	8:20	15:00	6:40
50-ROCKWOOD R-VI	BALLWIN ELEM.	8:23	15:13	6:50
51-PARKWAY C-2	CLAYMONT ELEM.	8:25	15:00	6:35
52-FERGUSON-FLORISSANT R-II	PARKER ROAD ELEM.	9:00	15:30	6:30
53-WEBSTER GROVES	AVERY ELEM.	8:20	15:00	6:40
54-ROCKWOOD R-VI	STANTON ELEM.	8:23	15:13	6:50
55-PARKWAY C-2	ROSS ELEM.	9:00	15:35	6:35
56-PATTONVILLE R-III	ROSE ACRES ELEM.	8:50	15:35	6:45
57-PARKWAY C-2	HENRY ELEM.	9:00	15:35	6:35
58-PATTONVILLE R-III	TRADITIONAL SCH.	8:05	14:55	6:50
59-PARKWAY C-2	OAK BROOK ELEM.	8:25	15:00	6:35
60-LINDBERGH SCHOOLS	SAPPINGTON ELEM.	8:35	15:10	6:35
61-PARKWAY C-2	HANNA WOODS ELEM.	8:25	15:00	6:35
62-MEHLVILLE R-IX	TRAUTWEIN ELEM.	8:45	15:30	6:45
63-HAZELWOOD	RUSSELL ELEM.	8:50	15:50	7:00
64-PARKWAY C-2	MCKELVEY ELEM.	9:00	15:35	6:35
65-BRENTWOOD	MCGRATH ELEM.	8:10	15:05	6:55
66-SPECL. SCH. DST. ST. LOUIS CO.	ACKERMAN SCH.	9:00	15:35	6:35
67-MEHLVILLE R-IX	POINT ELEM.	8:45	15:30	6:45
68-MEHLVILLE R-IX	FORDER ELEM.	8:45	15:30	6:45
69-WEBSTER GROVES	W. G. COMPUTER SCHOOL ELEM.	7:50	14:30	6:40
70-VALLEY PARK	VALLEY PARK ELEM.	8:30	15:05	6:35
71-ROCKWOOD R-VI	EUREKA ELEM.	9:00	15:50	6:50
72-PARKWAY C-2	WREN HOLLOW ELEM.	9:00	15:30	6:30
73-MEHLVILLE R-IX	HAGEMANN ELEM.	8:45	15:30	6:45
74-MEHLVILLE R-IX	BLADES ELEM.	8:05	14:50	6:45
75-MEHLVILLE R-IX	OAKVILLE ELEM.	8:45	15:30	6:45
76-MEHLVILLE R-IX	WOHLWEND ELEM.	8:45	15:30	6:45
77-PARKWAY C-2	SORRENTO SPRINGS ELEM.	8:00	14:35	6:35
78-PARKWAY C-2	CARMAN TRAILS ELEM.	9:00	15:35	6:35
79-MEHLVILLE R-IX	BEASLEY ELEM.	8:45	15:30	6:45

**Grade 5 Rankings on 2010 MAP
Communication Arts**

District	School	Start Time	End Time	Length of Day
80-MAPLEWOOD-RICHMOND HEIGHTS	MRH ELEM.	7:30	14:35	7:05
81-AFFTON 101	GOTSCH INTERMEDIATE SCH.			0:00
82-PATTONVILLE R-III	BRIDGEWAY ELEM.	8:50	15:35	6:45
83-FERGUSON-FLORISSANT R-II	COMBS ELEM.	9:00	15:30	6:30
84-HAZELWOOD	LAWSON ELEM.	8:50	15:50	7:00
85-FERGUSON-FLORISSANT R-II	WEDGWOOD ELEM.	9:00	15:30	6:30
86-PARKWAY C-2	CRAIG ELEM.	9:00	15:35	6:35
87-HAZELWOOD	LUSHER ELEM.	8:50	15:50	7:00
88-RITENOUR	MARION ELEM.	8:55	15:25	6:30
89-HAZELWOOD	BARRINGTON ELEM.	8:50	15:50	7:00
90-BAYLESS	BAYLESS INTERMEDIATE	7:50	14:50	7:00
91-PATTONVILLE R-III	PARKWOOD ELEM.	8:50	15:35	6:45
92-UNIVERSITY CITY	DELMAR HARVARD ELEM.	8:40	15:30	6:50
93-HAZELWOOD	JAMESTOWN ELEM.	8:50	15:50	7:00
94-FERGUSON-FLORISSANT R-II	ROBINWOOD ELEM.	9:00	15:30	6:30
95-HAZELWOOD	BROWN ELEM.	8:50	15:50	7:00
96-FERGUSON-FLORISSANT R-II	LEE HAMILTON ELEM.	9:00	15:30	6:30
97-FERGUSON-FLORISSANT R-II	HOLMAN ELEM.	9:00	15:30	6:30
98-RITENOUR	WYLAND ELEM.	8:55	15:25	6:30
99-MEHLVILLE R-IX	BIERBAUM ELEM.	8:45	15:30	6:45
100-UNIVERSITY CITY	NATHANIEL HAWTHORNE ELEM.	8:40	15:30	6:50

**Grade 5 Rankings on 2010 MAP
Mathematics**

District	School	Start Time	End Time	Length of Day
1-LINDBERGH SCHOOLS	TRUMAN ELEM.	8:45	15:25	6:40
2-SPECL. SCH. DST. ST. LOUIS CO.	SOUTHVIEW	9:00	15:35	6:35
3-ROCKWOOD R-VI	WILD HORSE ELEM.	8:23	15:13	6:50
4-LINDBERGH SCHOOLS	LONG ELEM.	8:35	15:15	6:40
5-LINDBERGH SCHOOLS	CRESTWOOD ELEM.	8:45	15:25	6:40
6-SPECL. SCH. DST. ST. LOUIS CO.	LITZSINGER	8:45	15:25	6:40
7-LADUE	CONWAY ELEM.	8:45	15:35	6:50
8-CLAYTON	RALPH M. CAPTAIN ELEM.	8:40	15:30	6:50
9-CLAYTON	MERAMEC ELEM.	8:25	15:30	7:05
10-LINDBERGH SCHOOLS	KENNERLY ELEM.	8:35	15:15	6:40
11-ROCKWOOD R-VI	RIDGE MEADOWS ELEM.	9:00	15:50	6:50
12-ROCKWOOD R-VI	BABLER ELEM.	9:00	15:50	6:50
13-KIRKWOOD R-VII	NORTH GLENDALE ELEM.	8:40	15:31	6:51
14-LINDBERGH SCHOOLS	SAPPINGTON ELEM.	8:35	15:10	6:35
15-CLAYTON	GLENRIDGE ELEM.	8:40	15:30	6:50
16-ROCKWOOD R-VI	BLEVINS ELEM.	9:00	15:50	6:50
17-KIRKWOOD R-VII	W. W. KEYSOR ELEM.	8:40	15:33	6:53
18-ROCKWOOD R-VI	KELLISON ELEM.	8:23	15:13	6:50
19-LADUE	OLD BONHOMME ELEM.	8:45	15:35	6:50
20-MEHLVILLE R-IX	ROGERS ELEM.	8:05	14:50	6:45
21-ROCKWOOD R-VI	FAIRWAY ELEM.	9:00	15:50	6:50
22-ROCKWOOD R-VI	WOERTHER ELEM.	9:00	15:50	6:50
23-KIRKWOOD R-VII	F. P. TILLMAN ELEM.			
24-ROCKWOOD R-VI	ELLISVILLE ELEM.	9:00	15:50	6:50
25-ROCKWOOD R-VI	GREEN PINES ELEM.	8:23	15:13	6:50
26-PATTONVILLE R-III	WILLOW BROOK ELEM.	8:50	15:35	6:45
27-KIRKWOOD R-VII	WESTCHESTER ELEM.	8:45	15:40	6:55
28-ROCKWOOD R-VI	CHESTERFIELD ELEM.	9:00	15:50	6:50
29-LADUE	SPOEDE ELEM.	8:45	15:35	6:50
30-PARKWAY C-2	PIERREMONT ELEM.	7:55	14:30	6:35
31-ROCKWOOD R-VI	STANTON ELEM.	8:23	15:13	6:50
32-PARKWAY C-2	HIGHCROFT RIDGE ELEM.	8:25	15:00	6:35
33-ROCKWOOD R-VI	KEHRS MILL ELEM.	9:00	15:50	6:50
34-WEBSTER GROVES	EDGAR ROAD ELEM.	8:30	15:10	6:40
35-KIRKWOOD R-VII	GEORGE R. ROBINSON ELEM.	8:40	15:31	6:51
36-ROCKWOOD R-VI	BOWLES ELEM.	9:00	15:50	6:50
37-ROCKWOOD R-VI	UTHOFF VALLEY ELEM.	9:00	15:50	6:50
38-HAZELWOOD	RUSSELL ELEM.	8:50	15:50	7:00
39-PARKWAY C-2	RIVER BEND ELEM.	9:00	15:35	6:35
40-MEHLVILLE R-IX	TRAUTWEIN ELEM.	8:45	15:30	6:45

**Grade 5 Rankings on 2010 MAP
Mathematics**

District	School	Start Time	End Time	Length of Day
41-ROCKWOOD R-VI	WESTRIDGE ELEM.	8:23	15:13	6:50
42-MEHLVILLE R-IX	HAGEMANN ELEM.	8:45	15:30	6:45
43-ROCKWOOD R-VI	POND ELEM.	9:00	15:50	6:50
44-PARKWAY C-2	HENRY ELEM.	9:00	15:35	6:35
45-PARKWAY C-2	GREEN TRAILS ELEM.	8:30	15:05	6:35
46-PARKWAY C-2	BELLERIVE ELEM.	8:25	15:00	6:35
47-BRENTWOOD	MCGRATH ELEM.	8:10	15:05	6:55
48-PARKWAY C-2	MASON RIDGE ELEM.	9:00	15:35	6:35
49-WEBSTER GROVES	W. G. COMPUTER SCHOOL ELEM.	7:50	14:30	6:40
50-ROCKWOOD R-VI	GEGGIE ELEM.	9:00	15:50	6:50
51-BRENTWOOD	MARK TWAIN ELEM.	8:10	15:05	6:55
52-LADUE	REED ELEM.	8:45	15:35	6:50
53-PARKWAY C-2	MCKELVEY ELEM.	9:00	15:35	6:35
54-MEHLVILLE R-IX	POINT ELEM.	8:45	15:30	6:45
55-PARKWAY C-2	OAK BROOK ELEM.	8:25	15:00	6:35
56-ROCKWOOD R-VI	EUREKA ELEM.	9:00	15:50	6:50
57-ROCKWOOD R-VI	BALLWIN ELEM.	8:23	15:13	6:50
58-PARKWAY C-2	SHENANDOAH VALLEY ELEM.	9:00	15:35	6:35
59-WEBSTER GROVES	HUDSON ELEM.	8:20	15:00	6:40
60-PARKWAY C-2	ROSS ELEM.	9:00	15:35	6:35
61-PARKWAY C-2	HANNA WOODS ELEM.	8:25	15:00	6:35
62-WEBSTER GROVES	AVERY ELEM.	8:20	15:00	6:40
63-PATTONVILLE R-III	TRADITIONAL SCH.	8:05	14:55	6:50
64-PARKWAY C-2	CLAYMONT ELEM.	8:25	15:00	6:35
65-PATTONVILLE R-III	ROSE ACRES ELEM.	8:50	15:35	6:45
66-MEHLVILLE R-IX	BLADES ELEM.	8:05	14:50	6:45
67-VALLEY PARK	VALLEY PARK ELEM.	8:30	15:05	6:35
68-MEHLVILLE R-IX	OAKVILLE ELEM.	8:45	15:30	6:45
69-MEHLVILLE R-IX	FORDER ELEM.	8:45	15:30	6:45
70-PARKWAY C-2	WREN HOLLOW ELEM.	9:00	15:30	6:30
71-PARKWAY C-2	SORRENTO SPRINGS ELEM.	8:00	14:35	6:35
72-HAZELWOOD	BROWN ELEM.	8:50	15:50	7:00
73-BAYLESS	BAYLESS INTERMEDIATE	7:50	14:50	7:00
74-WEBSTER GROVES	BRISTOL ELEM.	8:20	15:00	6:40
75-MEHLVILLE R-IX	BEASLEY ELEM.	8:45	15:30	6:45
76-FERGUSON-FLORISSANT R-II	COMBS ELEM.	9:00	15:30	6:30
77-AFFTON 101	GOTSCH INTERMEDIATE SCH.			
78-PARKWAY C-2	CRAIG ELEM.	9:00	15:35	6:35
79-PARKWAY C-2	BARRETTS ELEM.	9:00	15:35	6:35

**Grade 5 Rankings on 2010 MAP
Mathematics**

District	School	Start Time	End Time	Length of Day
80-RITENOUR	WYLAND ELEM.	8:55	15:25	6:30
81-HAZELWOOD	LUSHER ELEM.	8:50	15:50	7:00
82-MAPLEWOOD-RICHMOND HEIGHTS	MRH ELEM.	7:30	14:35	7:05
83-WEBSTER GROVES	CLARK ELEM.	8:30	15:10	6:40
84-MEHLVILLE R-IX	WOHLWEND ELEM.	8:45	15:30	6:45
85-PARKWAY C-2	CARMAN TRAILS ELEM.	9:00	15:35	6:35
86-PATTONVILLE R-III	PARKWOOD ELEM.	8:50	15:35	6:45
87-RITENOUR	BUDER ELEM.	8:55	15:25	6:30
88-UNIVERSITY CITY	NATHANIEL HAWTHORNE ELEM.	8:40	15:30	6:50
89-FERGUSON-FLORISSANT R-II	PARKER ROAD ELEM.	9:00	15:30	6:30
90-FERGUSON-FLORISSANT R-II	ROBINWOOD ELEM.	9:00	15:30	6:30
91-PATTONVILLE R-III	ROBERT DRUMMOND ELEM.	8:50	15:35	6:45
92-RITENOUR	MARION ELEM.	8:55	15:25	6:30
93-HAZELWOOD	GARRETT ELEM.	8:50	15:50	7:00
94-PATTONVILLE R-III	BRIDGEWAY ELEM.	8:50	15:35	6:45
95-HAZELWOOD	BARRINGTON ELEM.	8:50	15:50	7:00
96-RITENOUR	KRATZ ELEM.	8:55	15:25	6:30
97-HAZELWOOD	WALKER ELEM.	8:50	15:50	7:00
98-FERGUSON-FLORISSANT R-II	BERMUDA ELEM.	9:00	15:30	6:30
99-UNIVERSITY CITY	FLYNN PARK ELEM.	8:40	15:30	6:50
100-HANCOCK PLACE	HANCOCK PLACE ELEM.	8:10	15:05	6:55

Grade 8 Rankings on 2010 MAP
Communication Arts

District	School	Start Time	End Time	Length of Day
1-ROCKWOOD R-VI	CRESTVIEW MIDDLE	7:30	14:22	6:52
2-LADUE	LADUE MIDDLE	8:05	15:00	6:55
3-CLAYTON	WYDOWN MIDDLE	8:30	15:12	6:42
4-KIRKWOOD R-VII	NORTH KIRKWOOD MIDDLE	8:15	14:55	6:40
5-PARKWAY C-2	WEST MIDDLE	7:20	14:16	6:56
6-ROCKWOOD R-VI	ROCKWOOD VALLEY MIDDLE	7:30	14:22	6:52
7-ROCKWOOD R-VI	MORGAN SELVIDGE MIDDLE	7:30	14:22	6:52
8-PATTONVILLE R-III	TRADITIONAL SCH.	8:05	14:55	6:50
9-ROCKWOOD R-VI	WILDWOOD MIDDLE	7:30	14:22	6:52
10-PARKWAY C-2	CENTRAL MIDDLE	7:20	14:11	6:51
11-LINDBERGH SCHOOLS	ROBERT H. SPERRENG MIDDLE	7:25	14:15	6:50
12-KIRKWOOD R-VII	NIPHER MIDDLE	8:20	15:00	6:40
13-ROCKWOOD R-VI	ROCKWOOD SOUTH MIDDLE	7:30	14:22	6:52
14-PARKWAY C-2	SOUTH MIDDLE	7:25	14:16	6:51
15-PARKWAY C-2	SOUTHWEST MIDDLE	7:25	14:16	6:51
16-MEHLVILLE R-IX	OAKVILLE MIDDLE	8:05	14:50	6:45
17-VALLEY PARK	VALLEY PARK MIDDLE	7:47	14:30	6:43
18-WEBSTER GROVES	HIXSON MIDDLE	8:25	15:15	6:50
19-SPECL. SCH. DST. ST. LOUIS CO.	SOUTHVIEW	9:00	15:35	6:35
20-BRENTWOOD	BRENTWOOD MIDDLE	8:00	15:00	7:00
21-ROCKWOOD R-VI	LASALLE SPRINGS MIDDLE	7:30	14:22	6:52
22-SPECL. SCH. DST. ST. LOUIS CO.	ACKERMAN SCH.	9:00	15:35	6:35
23-MEHLVILLE R-IX	BERNARD MIDDLE	8:05	14:50	6:45
24-MEHLVILLE R-IX	WASHINGTON MIDDLE	8:05	14:50	6:45
25-PARKWAY C-2	NORTHEAST MIDDLE	7:25	14:16	6:51
26-PATTONVILLE R-III	PATTONVILLE HEIGHTS MIDDLE	8:05	14:58	6:53
27-PATTONVILLE R-III	HOLMAN MIDDLE	8:05	14:58	6:53
28-MAPLEWOOD-RICHMOND HEIGHTS	MRH MIDDLE	8:00	15:15	7:15
29-FERGUSON-FLORISSANT R-II	CROSS KEYS MIDDLE	8:10	14:55	6:45
30-AFFTON 101	ROGERS MIDDLE	7:10	13:55	6:45
31-HAZELWOOD	NORTH MIDDLE	8:10	15:10	7:00
32-MEHLVILLE R-IX	MARGARET BUERKLE MIDDLE	7:20	14:05	6:45
33-HANCOCK PLACE	HANCOCK PLACE MIDDLE	7:40	14:40	7:00
34-HAZELWOOD	CENTRAL MIDDLE	8:10	15:10	7:00
35-HAZELWOOD	WEST MIDDLE	8:10	15:10	7:00
36-BAYLESS	BAYLESS JR. HIGH	8:00	15:00	7:00
37-HAZELWOOD	NORTHWEST MIDDLE	8:10	15:10	7:00
38-RITENOUR	HOECH MIDDLE	7:45	14:15	6:30

**Grade 8 Rankings on 2010 MAP
Communication Arts**

District	School	Start Time	End Time	Length of Day
39-SPECL. SCH. DST. ST. LOUIS CO.	LITZSINGER	8:45	15:25	6:40
40-RITENOUR	RITENOUR MIDDLE	7:45	14:15	6:30
41-HAZELWOOD	SOUTHEAST MIDDLE	8:10	15:10	7:00
42-FERGUSON-FLORISSANT R-II	FERGUSON MIDDLE	8:10	14:55	6:45
43-UNIVERSITY CITY	BRITTANY WOODS	8:00	15:00	7:00
44-HAZELWOOD	EAST MIDDLE	8:10	15:10	7:00
45-JENNINGS	JENNINGS JR. HIGH	8:00	14:50	6:50
46-NORMANDY	NORMANDY MIDDLE	8:10	15:10	7:00
47-FERGUSON-FLORISSANT R-II	BERKELEY MIDDLE	7:15	14:20	7:05
48-RIVERVIEW GARDENS	R. G. CENTRAL MIDDLE	8:05	15:20	7:15
49-RIVERVIEW GARDENS	WESTVIEW MIDDLE	8:05	15:20	7:15
50-SPECL. SCH. DST. ST. LOUIS CO.	JUVENILE DETENTION CTR.			0:00

**Grade 8 Rankings on 2010 MAP
Mathematics**

District	School	Start Time	End Time	Length of Day
1-PATTONVILLE R-III	TRADITIONAL SCH.	8:05	14:55	6:50
2-LADUE	LADUE MIDDLE	8:05	15:00	6:55
3-CLAYTON	WYDOWN MIDDLE	8:30	15:12	6:42
4-PARKWAY C-2	WEST MIDDLE	7:20	14:16	6:56
5-VALLEY PARK	VALLEY PARK MIDDLE	7:47	14:30	6:43
6-LINDBERGH SCHOOLS	ROBERT H. SPERRENG MIDDLE	7:25	14:15	6:50
7-KIRKWOOD R-VII	NORTH KIRKWOOD MIDDLE	8:15	14:55	6:40
8-SPECL. SCH. DST. ST. LOUIS CO.	SOUTHVIEW	9:00	15:35	6:35
9-ROCKWOOD R-VI	CRESTVIEW MIDDLE	7:30	14:22	6:52
10-PARKWAY C-2	SOUTH MIDDLE	7:25	14:16	6:51
11-ROCKWOOD R-VI	WILDWOOD MIDDLE	7:30	14:22	6:52
12-PARKWAY C-2	CENTRAL MIDDLE	7:20	14:11	6:51
13-KIRKWOOD R-VII	NIPHER MIDDLE	8:20	15:00	6:40
14-MEHLVILLE R-IX	WASHINGTON MIDDLE	8:05	14:50	6:45
15-WEBSTER GROVES	HIXSON MIDDLE	8:25	15:15	6:50
16-ROCKWOOD R-VI	MORGAN SELVIDGE MIDDLE	7:30	14:22	6:52
17-ROCKWOOD R-VI	ROCKWOOD SOUTH MIDDLE	7:30	14:22	6:52
18-ROCKWOOD R-VI	ROCKWOOD VALLEY MIDDLE	7:30	14:22	6:52
19-PARKWAY C-2	SOUTHWEST MIDDLE	7:25	14:16	6:51
20-MEHLVILLE R-IX	OAKVILLE MIDDLE	8:05	14:50	6:45
21-MEHLVILLE R-IX	BERNARD MIDDLE	8:05	14:50	6:45
22-ROCKWOOD R-VI	LASALLE SPRINGS MIDDLE	7:30	14:22	6:52
23-PATTONVILLE R-III	PATTONVILLE HEIGHTS MIDDLE	8:05	14:58	6:53
24-SPECL. SCH. DST. ST. LOUIS CO.	ACKERMAN SCH.	9:00	15:35	6:35
25-BRENTWOOD	BRENTWOOD MIDDLE	8:00	15:00	7:00
26-PARKWAY C-2	NORTHEAST MIDDLE	7:25	14:16	6:51
27-PATTONVILLE R-III	HOLMAN MIDDLE	8:05	14:58	6:53
28-AFFTON 101	ROGERS MIDDLE	7:10	13:55	6:45
29-BAYLESS	BAYLESS JR. HIGH	8:00	15:00	7:00
30-HAZELWOOD	WEST MIDDLE	8:10	15:10	7:00
31-MEHLVILLE R-IX	MARGARET BUERKLE MIDDLE	7:20	14:05	6:45
32-HANCOCK PLACE	HANCOCK PLACE MIDDLE	7:40	14:40	7:00
33-SPECL. SCH. DST. ST. LOUIS CO.	LITZSINGER	8:45	15:25	6:40
34-HAZELWOOD	CENTRAL MIDDLE	8:10	15:10	7:00
35-FERGUSON-FLORISSANT R-II	CROSS KEYS MIDDLE	8:10	14:55	6:45
36-HAZELWOOD	NORTH MIDDLE	8:10	15:10	7:00
37-HAZELWOOD	NORTHWEST MIDDLE	8:10	15:10	7:00
38-MAPLEWOOD-RICHMOND HEIGHTS	MRH MIDDLE	8:00	15:15	7:15
39-HAZELWOOD	SOUTHEAST MIDDLE	8:10	15:10	7:00

**Grade 8 Rankings on 2010 MAP
Mathematics**

District	School	Start Time	End Time	Length of Day
40-RITENOUR	RITENOUR MIDDLE	7:45	14:15	6:30
41-RITENOUR	HOECH MIDDLE	7:45	14:15	6:30
42-HAZELWOOD	EAST MIDDLE	8:10	15:10	7:00
43-UNIVERSITY CITY	BRITTANY WOODS	8:00	15:00	7:00
44-FERGUSON-FLORISSANT R-II	BERKELEY MIDDLE	7:15	14:20	7:05
45-FERGUSON-FLORISSANT R-II	FERGUSON MIDDLE	8:10	14:55	6:45
46-JENNINGS	JENNINGS JR. HIGH	8:00	14:50	6:50
47-RIVERVIEW GARDENS	R. G. CENTRAL MIDDLE	8:05	15:20	7:15
48-NORMANDY	NORMANDY MIDDLE	8:10	15:10	7:00
49-WELLSTON	ESKRIDGE HIGH			
50-SPECL. SCH. DST. ST. LOUIS CO.	EXTERNAL SITES			

English II Rankings on 2010 EOC

Communication Arts

District	School	Start Time	End Time	Length of Day
1-CLAYTON	CLAYTON HIGH	8:20	15:01	6:41
2-PARKWAY C-2	CENTRAL HIGH	8:00	14:55	6:55
3-LADUE	LADUE HORTON WATKINS HIGH	7:40	14:20	6:40
4-ROCKWOOD R-VI	LAFAYETTE SR. HIGH	8:16	15:05	6:49
5-ROCKWOOD R-VI	MARQUETTE SR. HIGH	8:16	15:05	6:49
6-PARKWAY C-2	WEST HIGH	8:00	14:55	6:55
7-KIRKWOOD R-VII	KIRKWOOD SR. HIGH	7:50	14:50	7:00
8-LINDBERGH SCHOOLS	LINDBERGH SR. HIGH	7:30	14:30	7:00
9-PARKWAY C-2	SOUTH HIGH	8:00	14:52	6:52
10-WEBSTER GROVES	WEBSTER GROVES HIGH	7:55	14:35	6:40
11-ROCKWOOD R-VI	EUREKA SR. HIGH	8:16	15:05	6:49
12-AFFTON 101	AFFTON HIGH	7:40	14:25	6:45
13-PARKWAY C-2	NORTH HIGH	8:00	14:50	6:50
14-MEHLVILLE R-IX	OAKVILLE SR. HIGH	7:20	14:05	6:45
15-PATTONVILLE R-III	PATTONVILLE SR. HIGH	7:23	14:13	6:50
16-BRENTWOOD	BRENTWOOD HIGH	8:05	14:52	6:47
17-ROCKWOOD R-VI	ROCKWOOD SUMMIT SR. HIGH	8:16	15:05	6:49
18-MEHLVILLE R-IX	MEHLVILLE HIGH SCHOOL	7:20	14:05	6:45
19-VALLEY PARK	VALLEY PARK SR. HIGH	7:50	14:30	6:40
20-HANCOCK PLACE	HANCOCK SR. HIGH	7:40	14:40	7:00
21-BAYLESS	BAYLESS SR. HIGH	8:00	15:00	7:00
23-PARKWAY C-2	FERN RIDGE HIGH	8:20	15:10	6:50
24-HAZELWOOD	HAZELWOOD WEST HIGH	7:25	14:25	7:00
25-MAPLEWOOD-RICHMOND HEIGHTS	MAPLEWOOD-RICHMOND HGTS. HIGH	8:05	15:10	7:05
26-FERGUSON-FLORISSANT R-II	MCCLUER NORTH HIGH	7:15	14:20	7:05
27-RITENOUR	RITENOUR SR. HIGH	8:05	14:50	6:45
28-NORMANDY	NORMANDY HIGH			0:00
29-HAZELWOOD	HAZELWOOD CENTRAL HIGH			0:00
30-RIVERVIEW GARDENS	RIVERVIEW GARDENS SR. HIGH	7:30	14:45	7:15
31-FERGUSON-FLORISSANT R-II	MCCLUER HIGH	7:15	14:20	7:05
32-UNIVERSITY CITY	UNIVERSITY CITY SR. HIGH	7:30	14:25	6:55
33-HAZELWOOD	HAZELWOOD EAST HIGH			0:00
34-FERGUSON-FLORISSANT R-II	MCCLUER SOUTH-BERKELEY HIGH	7:15	14:20	7:05
35-JENNINGS	JENNINGS HIGH	8:00	14:55	6:55

						Elem	middle	high		
Central						25	19	21		
North						29	21	14		
West						32	20	15		
South						38	23	17		
						124	83	67		274
						start times		9:00	7:50	8:20
						end times		15:55	14:45	15:15
								6:55	6:55	6:55
								1	2	3
						No# runs				
Central high		2	8:00	14:55	6:55	21			21	
Central middle		1	7:20	14:11	6:51	19				19
Green Trails		3	8:30	15:05	6:35			10		
Mason Ridge		4	9:00	15:35	6:35	4		4		
River Bend		4	9:00	15:35	6:35	4		4		
Shenandoah vally		4	9:00	15:35	6:35	7		7		
						15		25	21	19
North high		2	8:00	14:50	6:50	14			14	
Northeast middle		1	7:25	14:16	6:51	21				21
PACE/ISC		2	8:00	14:35	6:35	3				
Bellerive		3	8:25	15:00	6:35	7				7
Craig		4	9:00	15:35	6:35	7		7		
McKelvey		4	9:00	15:35	6:35	8		8		
Ross		4	9:00	15:35	6:35	7		7		
						29		22	14	28
West high		2	8:00	14:55	6:55	15			15	
West middle		1	7:25	14:16	6:51	20				20
Claymont		3	8:25	15:00	6:35	7		7		
Henry		4	9:00	15:35	6:35	6				6
Highcroft		3	8:25	15:00	6:35	5			5	
Mason ridge		4	9:00	15:35	6:35	4		4		
Pierremont		2	7:55	14:30	6:35	10		10		
						32		21	20	26
South high		2	8:00	14:52	6:52	17			17	
south middle		1	7:25	14:16	6:51	12				12
southwest middle		1	7:25	14:16	6:51	11				11
Barretts		4	9:00	15:35	6:35	7		7		
Carman Trails		4	9:00	15:35	6:35	7		7		
Hanna woods		3	8:25	15:00	6:35	6		6		
Oak brook		3	8:25	15:00	6:35	8			8	
Sorrento Springs		2	8:00	14:35	6:35	5			5	
Wren Hollow		4	9:00	15:35	6:35	5		5		
						38		25	30	23
TOTALS								93	85	96
HS AA	8									
MS ACT	19									

Parkway:
KEY: all schools have same length of day.

Parkway:
IDEAL: 45 minutes between tiers. Less time= more buses. More time= less buses.