SCHOOL START TIME REPORT

6/27/2016

References

- American Academy of Pediatrics. School Start Times for Adolescents. Available at: http://pediatrics.aappublications.org/content/134/3/642
- Pakasarian D, Rudolph KE, He Jian-Ping, Merikangas K. School Start Time and Adolescent Sleep Patterns: Results From the US National Comorbidity Study-Adolescent Supplement. American Journal of Public Health. July 2015 Vol 105, No.7
- Wahlstrom KL. Later School Start Times. University of Minnesota Center for Applied Research and Educational Improvement. Available at: http://www.cehd.umn.edu/carei/documents/WahlstromPresentationHandout.pdf
- Owens J, Drobnich D, Baylor A, Lewin D. School Start Time Change: An In-Depth Examination of School Districts in the United States.
 International Mind, Brain, and Education Society and Wiley Periodicals, Inc. 2014. Vol. 8 No. 4.
- Carla de Souza J, Cortez de Souza I, Maia APL, Macedo de Azevedo CV. Sleep Patterns of Teachers and Adolescents Who Attend School in the Morning. Biological Rhythm Research. Feb. 2012. Vol. 43 No.1.
- Schmidt RE, Vand der Linden M. The Relations Between Sleep, Personality, Behavioral Problems, and School Performance in Adolescents. Sleep Medicine Clinics. Available at: http://www.sleep.theclinics.com/article/S1556-407X(15)00019-3/pdf
- States News Service. Trenton, NJ. Jasey, Benson, Vainieri Huttle and McKeon Bill to Study Benefits of Later Start Time for School Gets Final Legislative OK. June 11, 2015.
- Kirby M, Maggi S, D'Angiulli A. School Start Times and the Sleep-Wake Cycle of Adolescents: A Review and Critical Evaluation of Available Evidence. *Educational Researcher*. 2011 Vol. 40 No.2
- Cole J. A Survey of college-bound high school graduates regarding circadian preference, caffeine use, and academic performance. Springer-Verlag Berlin Heidelberg 2014. Available at: http://www.ncbi.nlm.nih.gov/pubmed/24788599
- The Huffington Post. What We've Learned About Kids and Sleep in 2015. 09/09/2015. Available at: http://www.huffingtonpost.com/2015/09/09/sleep-kids-tips_n_7485616.html
- Pannoni, A. Later High School Start Times a Challenge for Districts. US News and World Reports March 24, 2014. Available at: http://www.usnews.com/education/blogs/high-school-notes/2014/03/24/later-high-school-start-times-a-challenge-for-districts

Wellness Concerns

- Insufficient sleep in adolescents is a public health issue
- Average teenager has difficulty sleeping before 11:00 PM
- American Academy of Pediatrics recommends school start time of 8:30 or later for secondary students.
- Sufficient sleep leads to fewer tardies/absences, fewer student involved traffic accidents, improved student behavior and academic success.

Effect of Technology on Sleep

- Students who reported more bedroom distractions were statistically significantly more likely to get less than 8 hours of sleep on school nights.
- Teens who reported getting insufficient sleep on school nights were significantly more likely to:
 - Have a computer in their bedroom (46.5% have one in their bedrooms)
 - Have a cell phone in their bedroom (87.6% have one in their bedrooms)
- We found no significant differences in amount of sleep for teens who had a T.V. in their bedrooms.





Start Times

- In 2011-12 43% of high schools had a start time before 8:00 AM (School Start Times for Adolescents p.644)
 - LPS High Schools start 8:05
- Minnesota study, most start times before changing were 7:30 or 7:35
- "From 8:01 onward, start time was not significantly associated with getting adequate sleep on weeknights." (School Start Time and Adolescent Sleep Patterns p.1354)

Percentage of HS students sleeping ≥ 8 hours on school nights by start time

- 7:30 AM 33.6 % Fairview HS, CO (2010)
- 8:00 AM 49.7% Mahtomedi, MN
- 8:00 AM 44.5 % Boulder HS, CO
- 8:05 AM 42.5% Fairview HS, CO (2011)
- 8:35 AM 57.0% Woodbury HS, MN
 - 58.9% East Ridge HS,MN
 - 60.0 % Park HS, MN
- 8:55 AM 66.2% Jackson Hole, WY





How does this apply to LPS?

- Currently employ flexible scheduling
 - Zero hour (7:00)
 - Reduced schedule may start late
 - Late start days on Wednesdays 9:05
- Free State requesting to pilot adding 8th period for some students to start at 9:00 and finish the day later in credit recovery.

Considerations

- Administrators at all levels report significant numbers of students who arrive at buildings well before posted supervised times.
- Athletics/Activities
 - Later start times for practice
 - HS Basketball has eight teams and two gyms.
 - Practices currently run until 9:00 or 9:30 when all teams are practicing. Later start time would likely require some teams to practice before school.
 - Lost instructional time since games times would not be adjusted at league level. This loss of instructional time includes teachers who coach and students.
 - Research indicates that participation is not impacted by later start time
- Potential impact on students and staff who work after school.

Scenarios

- Move all school start times equally
 - No impact to transportation
 - Creates a later start time for late start elementary schools (currently 8:45)
- Move all elementary school start times to 8:00 and all secondary start times to 8:45
 - Would need to add at least 7 buses due to our double tier model.
 - Estimated cost \$286,000
- Add 8th period to high school (being piloted by Free State)
 - Would create three start and end times
 - Continue to bus only 8:05 start

Recommendations

- Consider additional flexible scheduling options at the high schools by offering more 8th period opportunities for students and allowing students to start the day after 9:00.
- Maintain the current start and end times for elementary and middle schools in order to maximize transportation efficiencies.