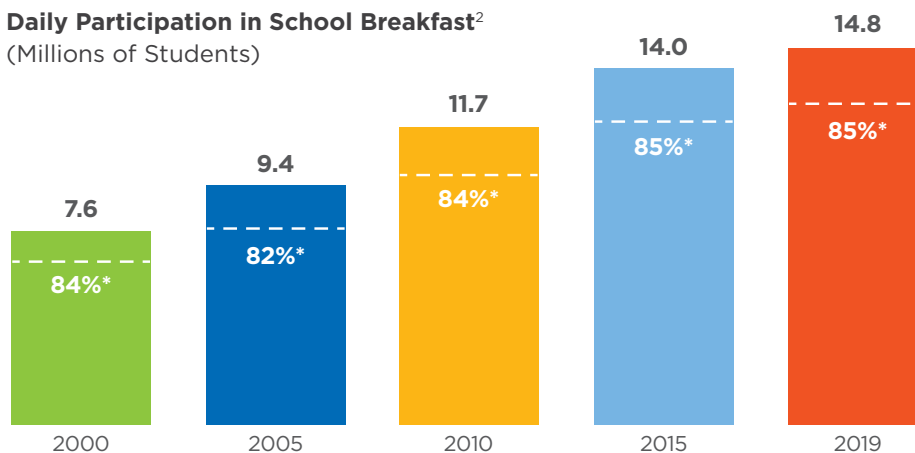


School Breakfast Matters

Reach of School Breakfast

School breakfast participation has doubled in just 20 years. By 2019, nearly 15 million children participated in school breakfast every day and 85% of them qualified for free or reduced price meals. One in seven children in the U.S. is food insecure¹ with much higher rates projected due to COVID-19. School breakfast reaches children who are most at-risk for food insecurity,² providing them vital nutrition to support mood, attention, and cognition.³

Daily Participation in School Breakfast² (Millions of Students)



*Percent of students who receive free or reduced price breakfast

Looking at the Science

Breakfast is linked with numerous health and educational benefits — including improved academic performance, increased school attendance, more focused classroom behavior, and better dietary intake.⁴⁻⁷

A systematic review of 45 breakfast studies⁸ showed that:

Students who eat breakfast have positive outcomes, such as

- ▶ Improved math & memory
- ▶ Better satiety, and
- ▶ Increased attention in class.

Nutritionally vulnerable children demonstrated the most substantial outcomes on their

- ▶ Verbal skills,
- ▶ Memorization, and
- ▶ Matching tests.



Breakfast & Brain Activation

Significantly higher brain activation is observed in the pre-frontal cortex when a nutritionally balanced breakfast is consumed. This area of the brain is involved in the control of emotion, mood, expectations, behavior, reward, decision-making, and cognition.⁹⁻¹⁰ Thus, a child who is fed a nutritious breakfast is likely to be more calm, focused, organized, thoughtful and ready to learn.

Call to Action: Help create awareness of the numerous health and educational benefits of school breakfast and encourage children to participate in the school breakfast program.



References:

- ¹ Coleman-Jensen, Alisha, Matthew P. Rabbitt, Christian A. Gregory, and Anita Singh. 2019. [Household Food Security in the United States in 2018](#), ERR-270, U.S. Department of Agriculture, Economic Research Service.
- ² USDA, FNS. School Breakfast Program: Participation and Meals Served. Accessed December 1, 2020.
- ³ [Research Brief: Breakfast for Learning](#). FRAC. October 2016..
- ⁴ Anzman-Frasca S, Djang HC, Halmo MM, et al. [Estimating impacts of a breakfast in the classroom program on school outcomes](#). JAMA Pediatrics. 2015;169(1):71-77.
- ⁵ Au LE, Gurzo K, Gosliner W, et al. [Eating school meals daily is associated with healthier dietary intakes: The Healthy Communities Study](#). Journal of the Academy of Nutrition and Dietetics. 2018;118(8):P1474-P1481.E1.
- ⁶ [School meals are a back-to-school essential for students](#). FRAC ResearchWIRE. Summer 2019:1-4.
- ⁷ Sampasa-Kanyinga H, Hamilton HA. [Eating breakfast regularly is related to higher school connectedness and academic performance in Canadian middle- and high-school students](#). Public Health. 2017;145:120-123.
- ⁸ Hoyland A, Dye L, Lawton CL. [A systematic review of the effect of breakfast on the cognitive performance of children and adolescents](#). Nutr Res Rev. 2009 Dec;22(2):220-43.
- ⁹ Akitsuki Y, Nakawaga S, Sugiura M, Kawashima R. [Nutritional Quality of Breakfast Affects Cognitive Function: An fMRI Study](#). Neuroscience & Medicine, 2011; 2: 92-19
- ¹⁰ Tataranni PA, Ois Gauthier J-F, Chen K, Uecker A, Bandy D, Salbe AD, Pratley RE, Lawson M, Reiman EM, Ravussin E. [Neuroanatomical correlates of hunger and satiation in humans using positron emission tomography](#). Proc. Natl. Acad. Sci. 1999; 96: 4569-4574.