

Using the K-12 Productivity Index to measure 'bang for the buck'

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K-12 productivity index methodology

- Total spending per student – 2020 Census – adjusted for the cost of living (Missouri Economic Research and Information Center)
- 8-score composite of 2022 NAEP (4th grad and 8th grade Reading and Math for low-income kids and all others).
 - Equal weighting adjusts for disparity among state demographics.
- $\text{Spending} \div \text{NAEP Composite} = \$ \text{ spent per NAEP point.}$

2020 Census actual spend vs. COL-adjusted

State	Spend Per Student			National Rank	
	Actual	COL Index	COL-Adjusted	Actual	COL-Adjusted
Utah	\$10,638	97.9	\$10,866	#48	#47
Kansas	\$15,192	86.8	\$17,563	#25	#11
California	\$16,762	142.4	\$11,771	#21	#43
Texas	\$14,034	92.0	\$15,254	#31	#22

Source: U.S. Census 2020, MERIC 2020 per Statista

Compare income-based cohorts rather than state average scores because of large achievement gaps and demographic variances among the states

4th Grade Reading Scale Score 2022 NAEP			
Description	Utah	Texas	Nat. Avg.
Free/Reduced Lunch	199	202	203
Self Pay Lunch	231	230	231
State Average	221	214	217
Avg. equal weighting	215	216	217
% F/R Lunch Enrolled	33%	60%	52%
% Self Pay Enrolled	67%	40%	48%

Source: NAEP, NCES

K-12 Productivity Index

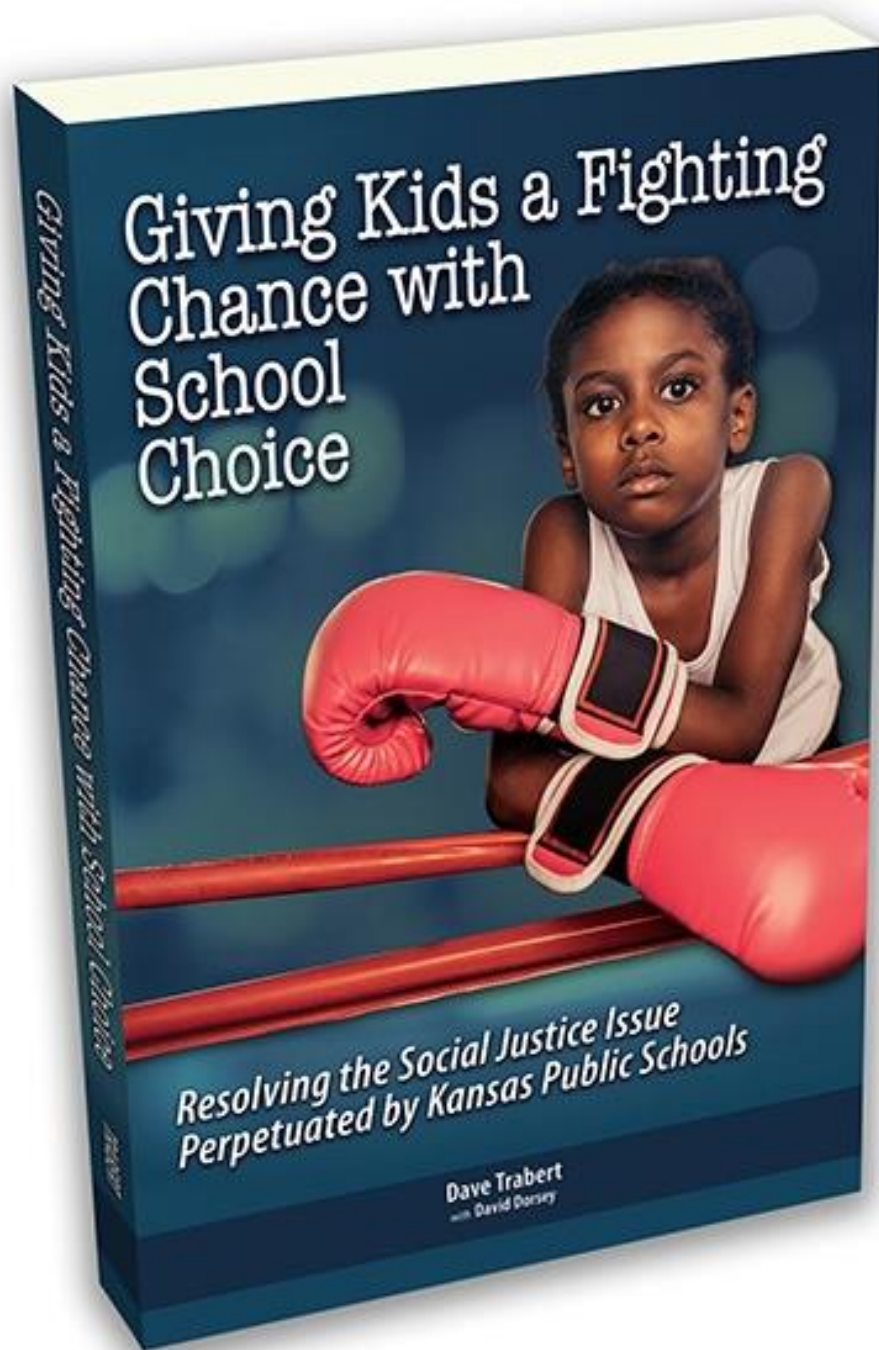
- Utah has the 4th best ‘bang for the buck’
- 13 states beat the NAEP national average while spending less per student.
- 3 met the NAEP national average and spent less.

2020 Spending and 2022 Achievement Comparison in Descending Productivity Order							
State	2020 Spending Per Student Adjusted for Cost of Living	2022 NAEP Composite	Productivity: Cost Per NAEP Point	State	2020 Spending Per Student Adjusted for Cost of Living	2022 NAEP Composite	Productivity: Cost Per NAEP Point
US Average	\$16,171	246	\$66	Maine	\$14,765	241	\$61
				Missouri	\$14,884	242	\$61
Hawaii	\$8,929	245	\$36	Texas	\$15,254	248	\$62
Idaho	\$9,893	248	\$40	New Mexico	\$14,802	239	\$62
Arizona	\$10,462	243	\$43	Wisconsin	\$15,837	248	\$64
Utah	\$10,866	247	\$44	Iowa	\$15,951	246	\$65
Nevada	\$10,949	248	\$44	Alaska	\$15,671	237	\$66
Florida	\$11,561	250	\$46	Rhode Island	\$16,177	244	\$66
California	\$11,771	247	\$48	Nebraska	\$16,445	248	\$66
North Carolina	\$11,692	242	\$48	Massachusetts	\$16,947	253	\$67
South Dakota	\$12,552	244	\$51	Washington	\$16,618	247	\$67
Oklahoma	\$12,381	240	\$52	Michigan	\$16,820	244	\$69
Tennessee	\$12,395	240	\$52	New Hampshire	\$17,480	246	\$71
Mississippi	\$12,860	249	\$52	Kansas	\$17,502	243	\$72
Alabama	\$12,853	239	\$54	Minnesota	\$17,835	243	\$73
Louisiana	\$13,799	247	\$56	Ohio	\$18,396	247	\$74
Colorado	\$14,028	246	\$57	North Dakota	\$18,199	244	\$75
Arkansas	\$13,934	244	\$57	Delaware	\$17,501	232	\$75
Kentucky	\$14,264	247	\$58	Connecticut	\$19,352	246	\$79
Virginia	\$14,140	244	\$58	Wyoming	\$19,885	249	\$80
Maryland	\$14,078	240	\$59	Vermont	\$19,985	245	\$81
Georgia	\$14,714	247	\$60	New Jersey	\$20,278	248	\$82
Indiana	\$14,855	249	\$60	Illinois	\$20,436	247	\$83
Montana	\$14,836	247	\$60	Pennsylvania	\$20,623	246	\$84
South Carolina	\$14,847	246	\$60	New York	\$20,827	247	\$84
West Virginia	\$14,344	235	\$61	Oregon	\$13,271	some data not reported	
Source: US Census, Missouri Economic Research and Information Center, National Assessment of Educational Progress. NAEP Composite is the 8-score average of 4th Grade and 8th Grade Reading and Math scores for low-income students and all other students, equally weighted. A 10-point difference on NAEP is the equivalent of a year's worth of learning.							

Illinois, New York spend \$10,000 more per pupil than Utah but get the same results

State	COL-Adjusted Spending	NAEP Composite Score	Cost per NAEP Point
Utah	\$10,866	247	\$44
Louisiana	\$13,799	247	\$56
Kentucky	\$14,264	247	\$58
Washington	\$16,618	247	\$67
Ohio	\$18,396	247	\$77
Illinois	\$20,436	247	\$83
New York	\$20,827	247	\$84

Source: 2020 Census total spending per student based on headcount enrollment adjusted for cost of living per Missouri Economic Research and Information Center; 2019 NAEP 8-score composite of 4th grade and 8th grade reading and math for low-income students and all others.



Achievement will remain low without legislative intervention / school choice.

Parents cannot count on the public education system to fix it, because the system works against student needs.

Solutions

- Building needs assessment accountability
 - Identify needs, budget changes in every school
- Universal choice – ESAs for every student
- Kansas School Board Resource Center
 - Model policy, training, data, networking, legislative advocacy

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