

Adequacy and Equity for Excellence

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Kentucky School Finance Project

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- Evidence-Based Approach to Adequacy

Comparative States

1. Alabama
2. Arkansas
3. Indiana
4. Missouri
5. Ohio
6. Tennessee
7. West Virginia

NAEP Proficient/Advanced Scores

All Students - 2013

State	Math		Reading	
	4th Grade	8th Grade	4th Grade	8th Grade
Kentucky	41%	30%	36%	38%
Alabama	30%	20%	31%	25%
Arkansas	39%	28%	32%	30%
Indiana	52%	38%	38%	35%
Missouri	39%	33%	35%	36%
Ohio	48%	40%	37%	39%
Tennessee	40%	28%	34%	33%
West Virginia	35%	24%	27%	25%

NAEP Proficient/Advanced Scores

Free/Reduced Price Lunch Students - 2013

State	Math		Reading	
	4th Grade	8th Grade	4th Grade	8th Grade
Kentucky	28%	16%	23%	25%
Alabama	17%	8%	18%	13%
Arkansas	28%	16%	22%	20%
Indiana	37%	23%	25%	22%
Missouri	25%	18%	23%	23%
Ohio	28%	21%	20%	22%
Tennessee	24%	15%	18%	22%
West Virginia	30%	15%	24%	18%

NAEP Proficient/Advanced Scores

English Language Learners - 2013

State	Math		Reading	
	4th Grade	8th Grade	4th Grade	8th Grade
Kentucky	19%	1%	11%	5%
Alabama	7%	NA	NA	NA
Arkansas	27%	12%	17%	12%
Indiana	30%	NA	13%	6%
Missouri	NA	NA	6%	NA
Ohio	30%	8%	19%	20%
Tennessee	9%	NA	2%	NA
West Virginia	NA	NA	NA	NA

Four-Year High School Grad Rates

State	Graduation Rates (2009-10)
Kentucky	79.9%
Alabama	71.8%
Arkansas	75.0%
Indiana	77.2%
Missouri	83.7%
Ohio	81.4%
Tennessee	80.4%
West Virginia	78.3%

Average Spending and Teacher Salaries

State	Expenditures Per Pupil (2012-13)	Average Teacher Salaries (2012-13)
Kentucky	\$10,033	\$50,203
Alabama	\$8,811	\$47,949
Arkansas	\$13,215	\$46,631
Indiana	\$11,496	\$50,065
Missouri	\$10,093	\$47,517
Ohio	\$9,941	\$56,307
Tennessee	\$8,695	\$47,563
West Virginia	\$12,116	\$45,453

High Achieving States

1. Minnesota
2. New Hampshire
3. Vermont
4. Massachusetts
5. Kansas
6. New Jersey

NAEP Proficient/Advanced Scores

All Students - 2013

State	Math		Reading	
	4th Grade	8th Grade	4th Grade	8th Grade
Kentucky	41%	30%	36%	38%
Kansas	48%	40%	38%	36%
Massachusetts	58%	55%	47%	48%
Minnesota	59%	47%	41%	41%
New Hampshire	59%	47%	45%	44%
New Jersey	49%	49%	42%	46%
Vermont	52%	47%	42%	45%

NAEP Proficient/Advanced Scores

Free/Reduced Price Lunch Students - 2013

State	Math		Reading	
	4th Grade	8th Grade	4th Grade	8th Grade
Kentucky	28%	16%	23%	25%
Kansas	33%	24%	22%	22%
Massachusetts	35%	31%	25%	28%
Minnesota	37%	25%	23%	22%
New Hampshire	38%	27%	24%	25%
New Jersey	28%	28%	22%	26%
Vermont	35%	27%	26%	28%

NAEP Proficient/Advanced Scores

English Language Learners - 2013

State	Math		Reading	
	4th Grade	8th Grade	4th Grade	8th Grade
Kentucky	19%	1%	11%	5%
Kansas	28%	11%	17%	13%
Massachusetts	19%	8%	12%	4%
Minnesota	17%	9%	8%	6%
New Hampshire	20%	NA	10%	NA
New Jersey	12%	NA	9%	NA

Four-Year High School Grad Rates

State	Graduation Rates (2009-10)
Kentucky	79.9%
Vermont	91.4%
Minnesota	88.2%
New Jersey	87.2%
New Hampshire	86.3%
Kansas	84.5%
Massachusetts	82.6%

Average Spending and Teacher Salaries

State	Expenditures Per Pupil (2012-13)	Average Teacher Salaries (2012-13)
Kentucky	\$10,033	\$50,203
Vermont	\$19,752	\$52,526
New Jersey	\$19,291	\$68,797
Massachusetts	\$15,881	\$72,334
New Hampshire	\$15,394	\$55,599
Minnesota	\$11,632	\$56,268
Kansas	\$9,689	\$47,464

General Findings

- Kentucky's student achievement is in the middle of comparative states and ranks below that of the high achieving states
- Kentucky's spending is middle of comparative states and below that of high achieving states (outside of Kansas)
- Kentucky's teacher salaries are middle-high of comparative states and below those of high achieving states (outside of Kansas)

Methods to Determine Adequacy

- Cost Function
- Successful Schools/Districts
- Professional Judgment
- Evidence-Based

Evidence-Based Adequacy

Current Research on Effective Programs and Policies

- Research with randomized assignment to the treatment (the “gold standard” of evidence)
- Research with other types of controls or statistical procedures that can help separate the impact of a treatment, including such methods as meta-analyses and longitudinal studies
- Best practices either as codified in a comprehensive school design or from studies of schools that have dramatically improved student learning
- Accreditation or statutes accepted by educators

Kentucky Input

- Advisory Committee
 - Four day-long meetings to discuss models and areas of interest
 - Second page of handout lists participants
- Stakeholder Panels
 - Three day-long meetings across Kentucky: Madisonville, Hazard, Louisville
 - Primarily Teachers (also school business officials)

duPont Manual High School

Total Funding		\$14,978,774	
		Students	Resources
Evidence-Based Funding Model	Total K-12	1,890	\$12,627,941
	Special Education	36	\$1,333,960
	Low Income	377	\$1,012,852
	English Learners	5	\$4,020
	Small School Adjustment		\$0
	Total		\$14,978,774
Evidence-Based Model Resources			
		FTE	Resources
Core Instruction	Core Classroom Teachers	75.58	\$5,715,497
	Substitutes		\$285,775
	Total	75.58	\$6,001,272
Specialist Teachers	Specialist Teachers	25.19	\$1,904,975
	Substitutes		\$95,249
	Total	25.19	\$2,000,224
Teacher and Pupil Supports	Instructional Facilitators	9.45	\$714,437
	Tutors	3.15	\$238,146
	Guidance Counselors	7.56	\$654,125
	Supervisory Aides	9.45	\$236,139
	Librarians	3.15	\$289,945
	Substitutes		\$47,629
	Total	32.75	\$2,180,421
School Administration	Principals	3.15	\$269,669
	Assistant Principals	3.15	\$264,498
	Secreterial/Clerical	9.45	\$352,929
	Total	15.75	\$887,096

duPont Manual High School (cont.)

Evidence-Based Model Resources			
		FTE	Resources
Per Pupil Resources	Materials		\$330,682
	Equipment/Technology		\$472,403
	Gifted & Talented		\$47,240
	Professional Development		\$188,961
	Assessments		\$47,240
	Student Activities		\$472,403
	Total		\$1,558,928
Special Education	Teachers	12.60	\$952,583
	Aides	12.60	\$314,852
	Substitutes		\$47,629
	Materials		\$18,896
	Total	25.19	\$1,333,960
Low Income	Pupil Support	3.14	\$237,565
	Summer School	3.14	\$237,565
	Extended Day	3.14	\$237,565
	Tutors	3.14	\$237,565
	Substitutes		\$47,513
	Materials		\$15,080
	Total	12.57	\$1,012,852
English Learners	Teachers	0.05	\$3,781
	Substitutes		\$189
	Materials		\$50
	Total	0.05	\$4,020
Small School Adjustment	Principals	0.00	\$0
	Teachers	0.00	\$0
	Substitutes		\$0
	Total	0.00	\$0

JCPS Model Resources

Total Funding		\$1,340,045,750	
		Students	Resources
Evidence-Based Funding Model	Total K-12	96,166	\$678,010,405
	Pre-K	7,711	\$77,240,959
	Special Education	11,830	\$67,887,739
	Low Income	59,325	\$159,383,196
	English Learners	6,484	\$5,211,417
	Small School Adjustment		\$5,722,558
	Central Office		\$62,918,853
	Maintenance & Operations		\$69,696,459
	Total		\$1,126,071,585
Carry Forwards	Carry Forwards		\$9,798,861
	Community Services		\$9,680,515
	Adult Education Operations		\$0
	Facilities		\$910,053
	Debt Service		\$49,246,652
	Fund Transfers		\$68,167,023
	Transportation		\$76,171,061
	Total		\$213,974,165

JCPS EB Model Resources

		FTE	Resources
Core Instruction	Core Classroom Teachers	4,649	\$351,566,500
	Substitutes		\$17,578,325
	Total	4,649	\$369,144,825
Specialist Teachers	Specialist Teachers	1,078	\$81,539,717
	Substitutes		\$4,076,986
	Total	1,078	\$85,616,703
Teacher and Pupil Supports	Instructional Facilitators	479	\$36,215,887
	Tutors	197	\$14,926,239
	Guidance Counselors	302	\$26,116,249
	Supervisory Aides	441	\$11,026,834
	Librarians	197	\$18,172,827
	Substitutes		\$2,557,106
	Total	1,617	\$109,015,142
School Administration	Principals	197	\$16,901,994
	Assistant Principals	46	\$3,897,442
	Secreterial/Clerical	441	\$16,480,517
	Total	685	\$37,279,954
Per Pupil Resources	Materials		\$14,446,014
	Equipment/Technology		\$24,041,449
	Gifted & Talented		\$2,404,145
	Professional Development		\$9,616,580
	Assessments		\$2,404,145
	Student Activities		\$24,041,449
	Total		\$76,953,781

JCPS EB Model Resources (cont.)

		FTE	Resources
Special Education	Teachers	641	\$48,478,730
	Aides	641	\$16,023,415
	Substitutes		\$2,423,936
	Materials		\$961,658
	Total	1,282	\$67,887,739
Low Income	Pupil Support	494	\$37,383,362
	Summer School	494	\$37,383,362
	Extended Day	494	\$37,383,362
	Tutors	494	\$37,383,362
	Substitutes		\$7,476,747
	Materials		\$2,373,000
	Total	1,978	\$159,383,196
English Learners	Teachers	65	\$4,901,521
	Substitutes		\$245,076
	Materials		\$64,820
	Total	65	\$5,211,417
Small School Adjustment	Principals	17	\$1,427,745
	Teachers	54	\$4,090,298
	Substitutes		\$204,515
	Total	71	\$5,722,558

Kentucky Model Resources

Total Funding		\$9,400,055,792	
		Students	Resources
Evidence-Based Funding Model	Total K-12	662,864	\$4,338,114,934
	Pre-K	53,080	\$572,235,127
	Special Education	86,018	\$438,158,594
	Low Income	376,295	\$916,697,861
	English Learners	20,211	\$15,474,423
	Small School Adjustment		\$40,434,548
	Small District Adjustment		\$10,703,977
	Central Office		\$433,695,198
	Maintenance & Operations		\$480,412,752
	Total		\$7,245,927,414
Carry Forwards	Food Service		\$347,932,132
	Community Services		\$60,861,322
	Adult Education Operations		\$287,215
	Facilities		\$6,976,259
	Debt Service		\$715,849,097
	Fund Transfers		\$566,478,697
	Transportation		\$418,656,457
	Kentucky Dept of Education Operations		\$20,951,500
	Kentucky School for the Blind /Deaf General Fund Allocation		\$16,135,700
	Total		\$2,154,128,378

Model Assumptions

- Universal Pre-K, 3- & 4-year olds, 50% participation
- Use of FRPL instead of FPL counts for struggling students
- Use of ADM instead of AADA
- Comparable Wage Index
- Full-Day Kindergarten, 100% participation

Strategic Programming

- Instructional Coaches for Professional Development
- Certified Teacher Tutors for Struggling Students
- Universal Pre-Kindergarten Programs
- Class Size Reduction in PK-3rd Grade
- Extended Day Programs (Farkas Tutors)
- Summer School Programs

Contact Information

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