Gatton College of Business and Economics

Kentucky Public Schools as Educational Bright Spots

Prepared by
Center for Business and Economic Research
Gatton College of Business and Economics
University of Kentucky

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Michael T. Childress
(michael.childress@uky.edu)

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Each academic year a select group of Kentucky's public schools perform better than expected on measures of educational achievement. These measures include things like the percentage of elementary students who achieve proficiency or distinguished in reading, or the proportion of less-advantaged middle school students who show a similar level of competency on the math assessment. Understanding the reasons for better-than-expected performance is fundamentally important. While our analysis does not fully address the question of *why* students perform better than expected, our results can be used to inform further inquiry on that question. Our work is best viewed as a statistical sieve designed to narrow the list of candidate schools worthy of closer examination. By subjecting a school to closer scrutiny, one can gain a sense of confidence about identifying the constellation of factors facilitating exceptional performance.

Organized within 173 school districts, there are wide differences in the learning environments, sizes, finances, and student outcomes among and within Kentucky's 1,466 schools.[1] Since schools are likely to reflect the underlying economic conditions of their surrounding communities, the socioeconomic characteristics of Kentucky's schools are as diverse as the state itself. This is evidenced by the percentages of less-advantaged students in two Fayette County School District elementary schools—Arlington and SCAPA, which are, respectively, 94 and 9 percent. Likewise, the average per pupil expenditures in the top quartile of school districts statewide is one-third higher than those in the bottom quartile—$13,380 compared to $10,140. And the funding extremes appear to be even more pronounced at the school level.

Student outcomes, of course, are the bottom lines for schools and districts, and there is a similarly wide distribution of outcomes across the state's public schools. For example, the percentage of students at Arlington Elementary and SCAPA at Bluegrass achieving a proficient or distinguished score on the 2018-2019 Kentucky Performance Rating for Educational Progress (K-PREP) in reading is vastly different, 29.5 percent at the former and 95.3 at the latter. While the size of this difference might be surprising—roughly 66 percentage points—its existence is not. Students at SCAPA, on average, have important and substantive advantages that students at Arlington do not, such as more experienced teachers and lower hurdles to learning created by poverty.

From this broad range of student outcomes, family and community backgrounds, and school characteristics, we identify schools that have performed better than expected—which we refer to as "bright spots." For example, Knox County Middle School and South Laurel Middle School in Laurel County performed similarly on the 2018-2019 K-PREP middle school mathematics assessment, demonstrated by 50.9 and 51.1 percent of their students scoring proficient or distinguished, respectively. Yet, once we consider student, school, district, and community factors, only one of these schools performs "better than expect"—Knox County Middle School. While South Laurel Middle School performs at a level we expect, Knox County Middle School performs much better than we expect; in fact, it performs 20 percentage points higher than we expect. In the sections that follow, we provide additional information on our method, approach, and results.

METHOD

Using a school-level database that includes, but is not limited to, data from the Kentucky Department of Education (KDE), the Kentucky Center for Statistics (KYstats), and the U.S. Census Bureau, we analyze data covering eight academic years—2011-12 to 2018-19.[2] We estimate an expected level of school-level performance using district-level fixed effects panel regression analysis—a statistical method for estimating, expressing, and understanding the relationships between variables—and then compare it to the actual performance. The difference between actual performance and model-based expected performance is the residual. If the size of the residual is sufficiently large

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[1] There are 38 Preschools, 655 Elementary (preschool-6th grade), 84 Elementary/middle (any combination of P-6 and grades 6-8), 203 Middle (grades 6-8), 170 Middle/high (any combination of grades 6-8 and 9-12), 257 High (grades 9-12), and 59 P-12 (any combination of P-6, grades 6-8 and 9-12). Refer to the Kentucky Department of Education website <https://education.ky.gov/comm/edfacts/Pages/default.aspx>.

[2] For the Kentucky Department of Education School Report Card data, these years correspond to the 2011-2012 to the 2018-2019 academic years. The Census data, on the other hand, is based on a calendar year.

and positive, we consider it a "bright spot candidate."[3] The development and creation of our statistical models is informed by Prichard Committee personnel, the scholarly literature on factors affecting student outcomes, data availability, and technical considerations regarding variable selection and model construction.

Outcome Variables

The 35 educational outcome variables include:

1. K-PREP *Reading*, Elementary School (combined grades and 3rd grade alone) and Middle School (combined grades and 8th grade alone), percentage reaching proficient/distinguished for three groups: total students, those participating in the National School Lunch Program (NSLP), and disabled students with an individualized educational plan (IEP), (12 outcome variables).
2. K-PREP *Mathematics*, Elementary School (combined grades and 3rd grade alone) and Middle School (combined grades and 8th grade alone), percentage reaching proficient/distinguished for three groups: total students, those participating in the National School Lunch Program (NSLP), and disabled students with an individualized educational plan (IEP), (12 outcome variables).
3. ACT Grade 11 Average Score (overall composite) as well as percentages reaching college readiness benchmarks for reading and math, for three groups: total students, those participating in the National School Lunch Program (NSLP), and disabled students with an individualized educational plan (IEP), (9 outcome variables).
4. In- and out-of-state college going rates (combined) derived from the KDE Report Card data (i.e., Transition to Adult Life after Graduation) and the in-state college going rate from the Kentucky High School Feedback Reports (2 outcome variables).[4]

Predictor Variables

During the initial phase of this project, which focused on school districts, we examined several statistical models, which included different combinations of independent or predictor variables. These variables include socioeconomic factors (e.g., percentage qualifying for free and reduced lunch), demographic characteristics (e.g., race), teacher characteristics (i.e., experience), student population factors (e.g., ELL), geographic measures (e.g., urbanity), and community characteristics (e.g., educational attainment of adults, children living in nonfamily households). Ultimately, we use the same variables in our models for both the district and school level analyses, which are listed below:

1. School districts are used for the school-level fixed effects analysis (173 districts)
2. Less-advantaged students, specified as the percentage of the students in a school participating in the National School Lunch Program (NSLP). In 2017, the Kentucky average is 60.4 percent (56.4% free, 4.4% reduced).[5]
3. Children under 18 living in single parent or nonfamily households, specified at the county level. Around 34 percent of children in Kentucky had this living arrangement in 2017.
4. Minority children, specified as the percentage of non-White (not Hispanic) children enrolled in the school (i.e., African American, Hispanic, Asian, American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, or multiple races). The statewide percentage of non-White (not Hispanic) students was 22.6 percent in 2017.
5. Teaching experience, specified as the average years of teaching experience in the school. The statewide average in 2017 was 11.9 years.
6. School student enrollment. The average school sizes by type of school during the 2018-2019 academic year are: 430 students for elementary schools, 493 for middle schools, and 753 for high schools.

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[3] The threshold we use for determining whether a positive residual is a "significant" is when the studentized residual is 2 or higher.

[4] The Kentucky High School Feedback Report data on in-state college going rates are only available for 7 years, the academic years 2011-12 to 2017-18.

[5] This is the statewide average.

7. Year, specified as the year of the panel data, 2011 to 2018.

For the models used to assess the college going rates, we included the variables listed above along with two additional variables:

8. Bachelor's degree or higher, specified as the percentage of the population 25 and over in the county with at least a BA degree. The statewide percentage in 2017 was 24 percent.
9. ACT Composite, specified as the district level overall ACT composite score. The statewide percentage was 19.8 in 2017.

The summary statistics for the database are presented in Table 1 (in the appendix, PAGE 8).[6]

Approach

For each of the 35 educational outcome measures, we use a district-level fixed effects panel regression model; the seven to nine independent variables used in the models are listed in the previous section (Predictor Variables). There are two conditions that a school must meet in order to satisfy our definition as a "bright spot." First, we evaluate *all students* on an outcome measure, such as K-PREP elementary mathematics outcomes, to assess whether a school exhibits better-than-expected performance at least once from 2011 to 2018; in other words, we are looking for significant studentized residuals.[7] Second, while focusing on the same educational outcome measure, but for *at-risk students*,[8] we analyze the model residuals to assess whether a school exhibits a significant improvement in performance relative to expectations over the time period; in this case, we regress the residuals on year, and if year is positive and statistically significant, then it is improving relative to expectations over the time period. Any school that satisfies both of these conditions on an educational outcome is deemed a "bright spot."
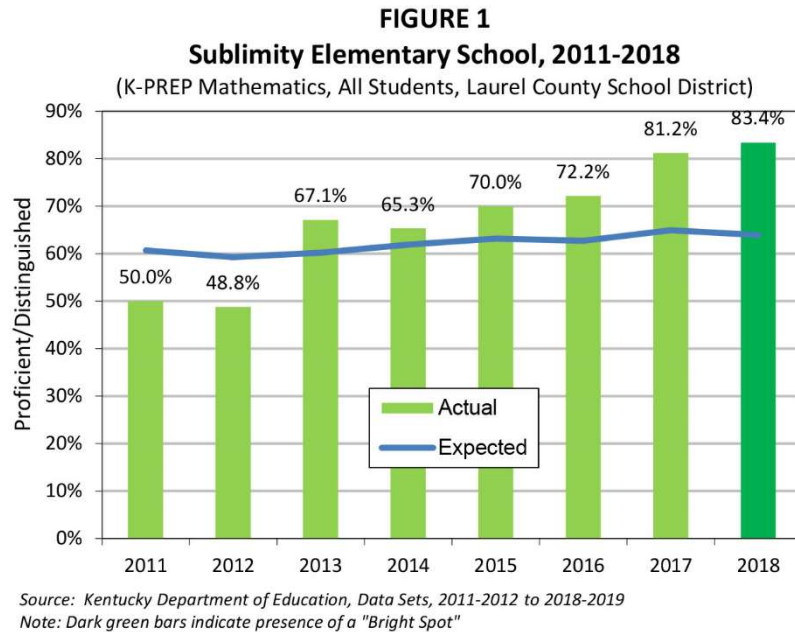
While recognizing that there are many ways to define a bright spot, we describe below how Sublimity Elementary School, which is part of the Laurel County School District, exemplifies our criteria. Sublimity Elementary School has ranged in size from 307 to 361 students from 2011 to 2018. On average, about 170 students take the K-PREP mathematics assessment each academic year. In the 2011-2012 academic year, about half of the students scored proficient or distinguished, but this increased to 83.4 percent by the 2018-2019 academic year (see Figure 1). In the earlier years, the school's proficient-distinguished percentage fell below the level estimated by our model; this is shown in Figure 1 with the green bars (actual percentage) below the blue line (expected percentage). By the 2018-2019 academic year, however, the percentage of students at Sublimity Elementary scoring proficient or distinguished on the K-PREP mathematics assessment was 83.4 percent, far exceeding the expected percentage of 63.9 percent. The actual performance exceeded the expected performance by 19.5 percentage points—a significant positive residual that meets our criteria as a "bright spot."

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[6] The values in Table 1 include data for schools, students, and their surrounding communities for eight years (academic years 2011-2012 to 2018-2019).
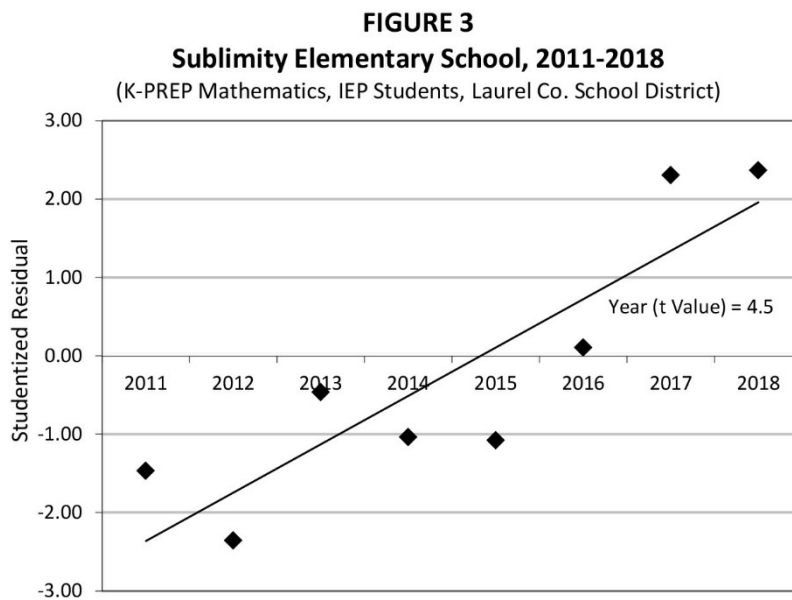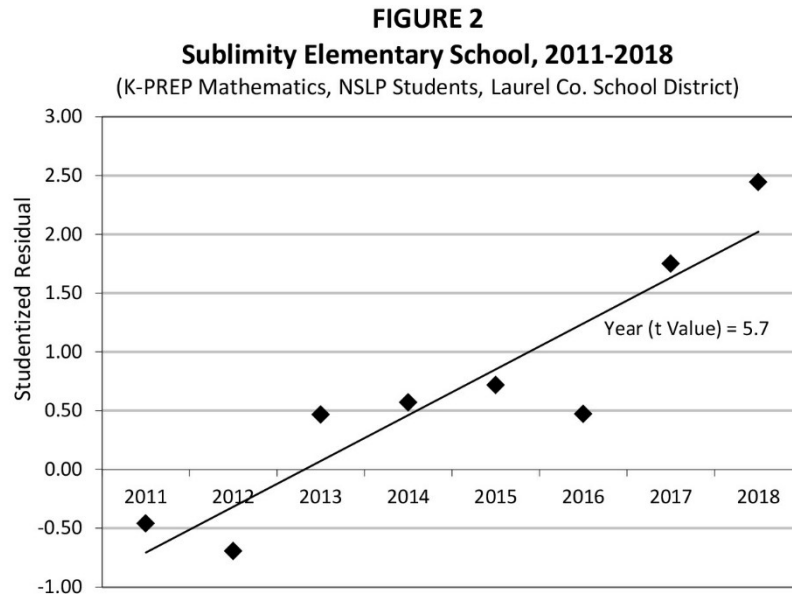
[7] As previously noted, our threshold is a studentized residual equal to or greater than 2.

[8] We define at-risk students as those participating in the National School Lunch Program (NSLP) and/or disabled students with an individualized educational plan (IEP).

FIGURE 1
Sublimity Elementary School, 2011-2018
(K-PREP Mathematics, All Students, Laurel County School District)

Source: Kentucky Department of Education, Data Sets, 2011-2012 to 2018-2019
Note: Dark green bars indicate presence of a "Bright Spot"

While it is necessary for all students, on average, to perform significantly above the expected level to be considered a bright spot, this, by itself, is not sufficient. Our second condition is that at-risk students must show significant improvement relative to expectations over the time period studied. We evaluate students participating in the National School Lunch Program as well as disabled students with an individualized educational plan to determine the level of progress. If one or both of these at-risk groups shows significant progress, then the condition is met.

Our first step is to analyze each group's performance using the same district-level fixed effects panel regression model used for the total student body, or all students. Then, we regress the residuals on year to determine if the parameter is positive and statistically significant. In the case of Sublimity Elementary School, both at-risk groups (i.e., NSLP and IEP students) show significant improvement in K-PREP mathematics performance relative to expectations (see Figures 2 and 3). During the 2018-2019 academic year, 69 percent of the students at Sublimity Elementary School participated in the National Free Lunch Program, and, on average during the study period, about 105 students took the K-PREP mathematics assessment each year. A much smaller number of students with an individualized education plan, about 26 each year, were tested. Nonetheless, both groups of at-risk students demonstrated statistically significant improvement over this time period. The residuals are negative at the beginning of the time period for both at-risk groups, indicating that performance was lower than expected, but then the residuals gradually become positive and larger, indicating that performance was higher than expected. While both groups of at-risk students at Sublimity Elementary School showed significant improvement relative to expectations, only one at-risk group needs to show improvement to be considered a bright spot candidate.

FIGURE 2
Sublimity Elementary School, 2011-2018
(K-PREP Mathematics, NSLP Students, Laurel Co. School District)

Year (t Value) = 5.7

FIGURE 3
Sublimity Elementary School, 2011-2018
(K-PREP Mathematics, IEP Students, Laurel Co. School District)

Year (t Value) = 4.5

BRIGHT SPOTS RESULTS

The information provided below in Table 2 shows the 47 "bright spot" schools meeting our two conditions described in the Approach section. There are 28 elementary schools, 4 middle schools, and 15 high schools that can be viewed as bright spots by virtue of student performance on K-PREP or ACT assessments, or successfully transitioning to college; and some schools qualify as bright spots in more than one category. Since we do not have data on college going for at-risk students—only the total graduating class—we used different criteria. For these two outcome measures, we assess the change over time for the total group instead of at-risk groups.

From left to right, the columns in Table 2 show the district and school identifier assigned to a school by the Kentucky Department of Education (Sch_Cd), the school district where the school is located, the school name, the educational outcome category, and the number of years from 2011 to 2018 where all students performed better than expected. The three columns on the right indicate whether groups of students exhibited significant improvement relative to expectations over the time period, either all students (TST), those qualifying for the National School Lunch Program (LUP), and those with an individualized educational plan (ACD); the numbers shown are the

t-values of the bivariate regression slope, where residuals are regressed on year. For example, the first row shows Oakview Elementary School is a bright spot for 3rd grade reading. It demonstrated better-than-expected performance for all students in one year, and students participating in the NSLP (LUP residual) evidenced significant improvement during the time period with a t-value of 3.3; IEP students (ACD residual) did not show significant positive improvement, which is reflected by the "not sig."

					TST Residuals	LUP residual	ACD residual
Sch_Cd	District	School	Category	Years (#)	(t)	(t)	(t)
012100	Ashland Independent	Oakview Elementary School	3rd Grade, Reading	1	—	3.3	not sig.
051040	Boyle County	Junction City Elementary School	Multigrade, Math	1	—	3.6	3.9
051080	Boyle County	Perryville Elementary School	3rd Grade, Math	1	—	2.2	not sig.
051080	Boyle County	Perryville Elementary School	Multigrade, Math	1	—	2.5	2.9
092010	Campbellsville Independent	Campbellsville Elementary School	3rd Grade, Math	1	—	2.0	not sig.
134160	Covington Independent	Glenn O Swing Elementary	3rd Grade, Reading	3	—	2.3	not sig.
151080	Edmonson County	Kyrock Elementary School	Multigrade, Reading	2	—	3.0	2.4
221110	Greenup County	Wurtland Elementary School	3rd Grade, Reading	2	—	3.5	not sig.
231030	Hardin County	Howevalley Elementary School	Multigrade, Math	1	—	3.4	3.0
235340	Harlan County	James A. Cawood Elementary	Multigrade, Reading	2	—	5.8	2.3
251091	Henderson County	South Heights Elementary School	3rd Grade, Math	1	—	not sig.	2.1
265200	Hopkins County	Pride Elementary School	3rd Grade, Math	3	—	2.6	not sig.
271180	Jackson County	McKee Elementary School	3rd Grade, Math	1	—	2.1	not sig.
271180	Jackson County	McKee Elementary School	Multigrade, Math	1	—	2.7	2.0
271180	Jackson County	McKee Elementary School	Multigrade, Reading	2	—	3.3	4.0
275013	Jefferson County	Greathouse Shryock Traditional	3rd Grade, Math	2	—	4.8	not sig.
275059	Jefferson County	Kenwood Elementary	Multigrade, Math	1	—	2.3	2.7
275145	Jefferson County	Laukhuf Elementary	Multigrade, Reading	1	—	2.3	2.0
291495	Kenton County	White's Tower Elementary School	3rd Grade, Math	2	—	5.9	not sig.
301320	Knox County	G R Hampton Elementary School	Multigrade, Reading	1	—	3.5	6.6
311130	Laurel County	Hazel Green Elementary School	Multigrade, Reading	1	—	3.7	2.7
311180	Laurel County	Keavy Elementary School	Multigrade, Reading	1	—	4.0	2.4
311420	Laurel County	Sublimity Elementary School	Multigrade, Math	1	—	5.7	4.5
311430	Laurel County	Cold Hill Elementary School	3rd Grade, Math	1	—	2.8	not sig.
371360	Magoffin County	Salyersville Grade School	Multigrade, Math	1	—	5.0	7.1
441050	Morgan County	East Valley Elementary School	Multigrade, Reading	2	—	3.9	3.3
491060	Pike County	Virgie School	Multigrade, Math	6	—	2.2	2.2
491060	Pike County	Virgie School	Multigrade, Reading	5	—	3.1	2.8
491952	Pike County	Phelps Elementary School	3rd Grade, Reading	5	—	3.3	not sig.
491952	Pike County	Phelps Elementary School	Multigrade, Math	3	—	2.9	3.2
491952	Pike County	Phelps Elementary School	Multigrade, Reading	3	—	3.3	3.1
495010	Powell County	Bowen Elementary School	Multigrade, Reading	2	—	3.1	2.2
571018	Warren County	Plano Elementary	3rd Grade, Math	1	—	3.9	not sig.
571070	Warren County	Cumberland Trace Elementary	3rd Grade, Reading	1	—	3.1	not sig.
235060	Harlan County	Black Mountain Elementary School	Multigrade, Reading	1	—	2.9	2.3
301023	Knox County	Knox County Middle School	Multigrade, Reading	2	—	4.4	5.3
301023	Knox County	Knox County Middle School	8th Grade, Reading	1	—	2.5	4.1
301023	Knox County	Knox County Middle School	Multigrade, Math	2	—	7.3	6.5
365145	Madison County	Farristown Middle School	8th Grade, Math	1	—	2.6	not sig.
491059	Pike County	Millard School	Multigrade, Math	1	—	3.7	2.6
491059	Pike County	Millard School	8th Grade, Math	2	—	11.2	not sig.
045010	Boyd County	Boyd County High School	ACT Math	1	—	not sig.	2.7
231013	Hardin County	John Hardin High School	ACT Comp	1	—	2.1	not sig.
275018	Jefferson County	Atherton High School	ACT Reading	3	—	2.5	not sig.
275018	Jefferson County	Atherton High School	ACT Comp	2	—	not sig.	2.7
311210	Laurel County	South Laurel High School	ACT Reading	1	—	2.9	not sig.
311210	Laurel County	South Laurel High School	ACT Comp	1	—	2.8	not sig.
455030	Nicholas County	Nicholas County High School	ACT Reading	1	—	2.2	not sig.
523030	Russellville Independent	Russellville Junior/Senior High School	ACT Reading	1	—	2.3	not sig.
523030	Russellville Independent	Russellville Junior/Senior High School	ACT Math	1	—	3.2	not sig.
523030	Russellville Independent	Russellville Junior/Senior High School	ACT Comp	1	—	2.2	not sig.
071075	Bullitt County	North Bullitt High School	CollegeInOut	1	2.4	—	—
105120	Carter County	East Carter County High School	CollegeInOut	1	2.1	—	—
285115	Johnson County	Johnson Central High School	CollegeInOut	1	2.1	—	—
415090	Menifee County	Menifee County High School	CollegeInOut	1	2.1	—	—
485130	Perry County	Buckhorn School	CollegeInOut	1	2.8	—	—
491980	Pike County	Shelby Valley High School	CollegeInOut	2	4.2	—	—
515180	Rowan County	Rowan County Senior High School	CollegeInOut	1	2.5	—	—
132010	Cloverport Independent	Frederick Fraize High School	College InState	1	3.2	—	—
155280	Elliott County	Elliott County High School	College InState	1	4.0	—	—

TABLE 2 - Bright Spots, Schools Performing Better than Expected, 2011 to 2018

CONCLUSIONS

The 47 "bright spot" schools that performed better than expected from 2011 to 2018 are located in all regions of the state and 30 different counties, as illustrated in the county-level map below; these are diverse settings—urban-rural, east-west, distressed areas as well as prosperous ones.

Kentucky Counties with "Bright Spot" Schools

Our analysis confirms what research has long revealed—that less-advantaged and minority students can face difficult obstacles in the pursuit of academic success. Of the 35 educational outcome models we tested, the predictor variables of less-advantaged students (i.e., % NSLP participants) and minority students (i.e., % nonwhite) were statistically significant and negative in 34 and 30 models, respectively. Additionally, teacher experience—the average number of years teaching—was statistically significant and positive in 20 of the 35 models; the impact of experienced teachers was mostly concentrated in the elementary level KPREP reading, 8th grade KREP reading, and in each of the nine ACT models.

Understanding the reasons for better-than-expected performance is fundamentally important. These results of this analysis can be sorted, selected, and combined with other pieces of information, if desired, to identify educational bright spots worthy of closer examination. With closer *qualitative* examination, it is possible to identify the critical factors leading to better-than-expected educational outcomes. Given the wide geographic distribution of educational bright spots, there are many candidates available across the Commonwealth for further study and examination.

Michael Childress
Center for Business and Economic Research
University of Kentucky
859.257.2912
Michael.childress@uky.edu

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TABLE 1 - Educational Outcome Variables, Summary Statistics for 35 Models

Variable	Short Description	Long Description	N	KPREP/ACT/COLLEGE (%)	FRLUNCH (%)	CHILDSPNF (%)	NONWHITE (%)	AVG_YRS_TCH_EXP	SCH_SIZE	BA (%)	ACT_COMP
VAR1	ES_MGRD_TST_READ	Elementary School, Multi-Grade, Total Students, Reading (KPREP)	5,739	52.7	66.2	34.5	20.3	12.0	439	.	.
VAR2	ES_MGRD_LUP_READ	Elementary School, Multi-Grade, F/R LUNCH Students, Reading (KPREP)	5,659	45.2	66.2	34.5	20.2	12.0	442	.	.
VAR3	ES_MGRD_ACD_READ	Elementary School, Multi-Grade, DISABLED Students, Reading (KPREP)	5,423	33.2	66.1	34.5	20.6	12.0	450	.	.
VAR4	ES_3GRD_TST_READ	Elementary School, 3RD-Grade, Total Students, Reading (KPREP)	5,624	52.2	66.4	34.6	20.4	12.0	441	.	.
VAR5	ES_3GRD_LUP_READ	Elementary School, 3RD-Grade, F/R LUNCH Students, Reading (KPREP)	5,174	44.9	65.4	34.4	19.8	12.0	454	.	.
VAR6	ES_3GRD_ACD_READ	Elementary School, 3RD-Grade, DISABLED Students, Reading (KPREP)	2,842	36.2	64.8	34.4	20.7	12.0	511	.	.
VAR7	ES_MGRD_TST_MATH	Elementary School, Multi-Grade, Total Students, Mathematics (KPREP)	5,736	46.9	66.2	34.5	20.3	12.0	440	.	.
VAR8	ES_MGRD_LUP_MATH	Elementary School, Multi-Grade, F/R LUNCH Students, Mathematics (KPREP)	5,658	39.0	66.2	34.5	20.2	12.0	442	.	.
VAR9	ES_MGRD_ACD_MATH	Elementary School, Multi-Grade, DISABLED Students, Mathematics (KPREP)	5,334	27.0	65.8	34.5	20.4	12.0	452	.	.
VAR10	ES_3GRD_TST_MATH	Elementary School, 3RD-Grade, Total Students, Mathematics (KPREP)	5,618	45.9	66.4	34.6	20.4	12.0	441	.	.
VAR11	ES_3GRD_LUP_MATH	Elementary School, 3RD-Grade, F/R LUNCH Students, Mathematics (KPREP)	5,144	38.3	65.3	34.4	19.9	12.0	455	.	.
VAR12	ES_3GRD_ACD_MATH	Elementary School, 3RD-Grade, DISABLED Students, Mathematics (KPREP)	2,741	29.4	64.8	34.5	20.7	12.0	512	.	.
VAR13	MS_MGRD_TST_READ	Middle School, Multi-Grade, Total Students, Reading (KPREP)	2,703	53.4	63.7	34.3	15.9	11.9	521	.	.
VAR14	MS_MGRD_LUP_READ	Middle School, Multi-Grade, F/R LUNCH Students, Reading (KPREP)	2,620	46.0	63.6	34.3	15.7	11.9	533	.	.
VAR15	MS_MGRD_ACD_READ	Middle School, Multi-Grade, DISABLED Students, Reading (KPREP)	2,420	26.3	62.9	34.3	16.0	11.9	553	.	.
VAR16	MS_8GRD_TST_READ	Middle School, 8TH-Grade, Total Students, Reading (KPREP)	2,544	55.8	62.9	34.3	15.4	11.9	539	.	.
VAR17	MS_8GRD_LUP_READ	Middle School, 8TH-Grade, F/R LUNCH Students, Reading (KPREP)	2,381	46.7	62.4	34.1	16.0	11.8	559	.	.
VAR18	MS_8GRD_ACD_READ	Middle School, 8TH-Grade, DISABLED Students, Reading (KPREP)	1,514	22.3	60.5	34.2	19.0	11.6	646	.	.
VAR19	MS_MGRD_TST_MATH	Middle School, Multi-Grade, Total Students, Mathematics (KPREP)	2,667	42.6	63.4	34.3	15.8	11.9	527	.	.
VAR20	MS_MGRD_LUP_MATH	Middle School, Multi-Grade, F/R LUNCH Students, Mathematics (KPREP)	2,602	34.2	63.4	34.3	15.8	11.9	535	.	.
VAR21	MS_MGRD_ACD_MATH	Middle School, Multi-Grade, DISABLED Students, Mathematics (KPREP)	2,352	20.6	62.8	34.3	16.0	11.9	558	.	.
VAR22	MS_8GRD_TST_MATH	Middle School, 8TH-Grade, Total Students, Mathematics (KPREP)	2,541	44.4	62.9	34.2	15.4	11.9	539	.	.
VAR23	MS_8GRD_LUP_MATH	Middle School, 8TH-Grade, F/R LUNCH Students, Mathematics (KPREP)	2,364	35.0	62.3	34.1	16.0	11.8	560	.	.
VAR24	MS_8GRD_ACD_MATH	Middle School, 8TH-Grade, DISABLED Students, Mathematics (KPREP)	1,396	18.5	60.4	34.1	18.4	11.7	648	.	.
VAR25	ACT_TST_READ	ACT, Total Students, Reading	1,907	44.8	58.0	34.2	16.2	12.0	815	.	.
VAR26	ACT_LUP_READ	ACT, F/R LUNCH Students, Reading	1,776	36.4	56.8	34.2	16.1	12.0	857	.	.
VAR27	ACT_ACD_READ	ACT, DISABLED Students, Reading	1,071	17.2	55.1	34.0	17.3	11.9	1,047	.	.
VAR28	ACT_TST_MATH	ACT, Total Students, Mathematics	1,892	37.0	57.8	34.2	16.2	12.0	821	.	.
VAR29	ACT_LUP_MATH	ACT, F/R LUNCH Students, Mathematics	1,777	27.6	56.7	34.2	16.0	12.0	859	.	.
VAR30	ACT_ACD_MATH	ACT, DISABLED Students, Mathematics	840	12.4	53.7	33.7	17.2	11.9	1,072	.	.
VAR31	ACT_TST_COMP	ACT, Total Students, Composite	1,919	18.9	58.1	34.3	16.4	12.0	811	.	.
VAR32	ACT_LUP_COMP	ACT, F/R LUNCH Students, Composite	1,777	17.8	56.8	34.2	16.1	12.0	857	.	.
VAR33	ACT_ACD_COMP	ACT, DISABLED Students, Composite	1,202	14.7	55.8	34.0	17.3	11.9	1,025	.	.
VAR34	COLLEGEINOUT	College Attendance, includes in- & out-of-state colleges	1,869	54.2	58.1	34.2	16.2	12.0	820	18.9	19.0
VAR35	COL_INSTATE	College Attendance, in-state colleges only	1,570	55.6	56.7	34.1	15.4	11.9	849	18.6	19.2