# Student Achievement: Lessons Learned From Kentucky's Relatively Highest- And Lowest-Performing Schools

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# Foreword

In Kentucky, as in the nation, academic performance is highly associated with student demographic characteristics such as economic disadvantage, limited English proficiency, and disability status. Yet, academic performance of students from traditionally lower-performing groups is far better in some schools than others.

This study identifies Kentucky schools that succeed regardless of demographic challenges as well as those in which students perform far below demographically similar students across the state. Based on statewide data and site visits to 14 schools across the commonwealth, the study seeks to understand school practices that might contribute to higher academic achievement in some schools; specific barriers to school improvement in underperforming schools; and how existing policy structures aimed at school improvement might assist underperforming schools in addressing barriers.

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# Summary

In Kentucky, as in the nation, academic performance is highly associated with student demographic characteristics. Most of the state's highest-performing schools, for example, are those serving students from relatively wealthier families whereas most of the lowest- performing schools have very high percentages of economically disadvantaged students. Additional factors associated with achievement include limited English proficiency (LEP), student disability, race, and ethnicity. Yet, academic performance of students in demographically comparable schools varies widely.

This report analyzes differences between "higher-impact schools" in which student academic performance far exceeds the performance of demographically similar students across the state and "lowest-impact" schools in which academic performance appears low, even after student demographic characteristics are taken into account. Understanding these differences may inform educators, the Kentucky Department of Education (KDE) and the Kentucky General Assembly, in efforts to increase academic achievement of all students.

Using statewide data as well as site visits to 14 schools across the commonwealth, the study seeks to understand:<sup>a</sup>

- characteristics of highest-impact schools;
- barriers to student learning in lowest-impact schools; and
- potential for existing school improvement policies and resources to provide additional support to lowest-impact schools.

Overall, the study finds that highest-impact schools are more likely than lowest-impact schools to have positive, orderly school environments and to be implementing research-based instructional practices that are promoted by the Kentucky Department of Education (KDE). The study highlights barriers to school improvement that are relatively less emphasized in school improvement planning currently required of schools and districts. These include leadership skills necessary to establish and maintain effective instructional and behavioral systems; staff turnover; and school climate and culture challenges that affect teachers as well as students. Many of these barriers might be addressed, in part, through use of existing resources and school improvement practices. Others—such as staff shortages in particular schools or districts—may be difficult for local leaders to address on their own.

# **Differences Highest- and Lowest-impact Schools**

# Culture, Climate, And Student Behavior

Teachers' responses to a KDE biennial working conditions survey data show great differences among highest-impact schools in teacher working conditions, especially in conditions related to climate, culture, and student behavior. Data from teachers in lowest-impact schools indicated

<sup>&</sup>lt;sup>a</sup> OEA visited 8 highest- and 6 lowest-impact schools. Site visits represented all school levels and geographic regions and included schools with a variety of demographic characteristics.

less favorable working conditions at 4.5 times the rate of teachers in highest-impact schools. (60 percent versus 13 percent). Both teachers and students in lowest-impact schools were much less likely than those in highest-impact schools to report orderly learning environments; consistent, fair rules; positive relationships between students; and respectful relationships between students and teachers.

## **Instructional Systems**

Consistent with existing research on effective schools, almost all highest-impact site visit schools had well-developed instructional systems that clarified expectations for teachers and students based on collectively developed or refined curriculum documents and classroom assessments.<sup>b</sup> These systems featured ongoing team analysis of student assessment data and classroom work; systematic support for both teachers and students not meeting expectations; and commitment to high standards for classroom instruction and student work. KDE provides a wealth of materials and guidance for schools and districts in implementing these types of systems.

## **Barriers To Effective Practice In Lowest-Impact Schools**

Barriers to implementing best practices vary by school and district setting. In some site visit schools, school or district administrators appeared unaware of gaps in instructional or behavioral systems. In others, they lacked the knowledge, skill, or confidence to address these gaps. Some site visit teachers and administrators noted instances in which challenges were known but some local leaders were unwilling to take the steps, such as addressing personnel challenges or investing necessary time and resources, necessary to address the challenges.

**Staff Turnover.** Teacher and principal turnover undermine the conditions necessary to establish and maintain instructional and behavioral systems in many lowest-impact schools. Lowest-impact schools are seven times as likely to have very high teacher turnover rates as highest-impact schools (35 percent and 5 percent, respectively). Likewise, lowest-impact schools, on average, have much higher percentages of teachers with 5 or fewer years of experience than highest-impact school. Percentages of these newer teachers in lowest-impact middle schools are especially high and are 1.4 times greater than in highest-impact middle schools (44 percent and 31 percent, respectively). In addition, principal tenure is 1.5 times longer in highest- versus lowest-impact schools (an average of 6 and 4 years, respectively).

In some cases, teacher turnover reflects poor working conditions that might be addressed by school leaders. In other cases, staff turnover reflects challenges that may be difficult for school or district leaders to address alone. These challenges include regional housing shortages, lower teacher salaries, or geographic locations/demographic conditions not favored by teachers.

Schools Identified For Comprehensive School Improvement. Great challenges related to culture, climate, behavior and staff turnover are also evident in the state's lowest-performing

<sup>&</sup>lt;sup>b</sup> As outlined in KRS 160.345, local superintendents, in consultation with local boards, have the authority to determine curriculum, textbooks, and instructional materials provided to schools. School administrators and teachers in highest-impact schools used these documents as a base but added many additional elements that clarified instructional expectations and established systems for teacher feedback and student remediation.

schools—those identified by KDE for Comprehensive School Improvement (CSI) according to federal requirements. <sup>c</sup> Data from both students and teachers in these schools suggest that challenges associated with relationships among students and student behavior are greater in CSI schools than in lowest-impact schools overall.

## **Importance Of Local Leaders**

Site visit data illustrate the strong influence of local leaders on building and sustaining the instructional and behavioral management systems in highest-impact schools. Teachers credited local leaders—most often principals but also district administrators—with communicating compelling, high expectations for teachers and students; providing the supports needed to meet those expectations, and holding staff and students accountable when efforts fell short. Experienced teacher leaders also played critical roles in examining/improving classroom practices; holding each other accountable for high standards of instruction; and in supporting less experienced teachers to understand and implement instructional and behavioral expectations of students. Finally, OEA visited four districts in which all of the schools were higher impact. District administrators in these districts played active instructional leadership roles that included monitoring data; monitoring instructional practices; leading professional development; and supporting new or struggling teachers.

# **Relevance Of Findings For School Improvement Practices**

Findings of the report highlight challenges associated with climate, culture, and student behavior; staff turnover; and leadership knowledge, skills, or willingness to address known challenges. Data related to these indicators receive relatively less attention in school improvement practices required of districts and schools than do data related to student achievement or particular instructional practices. While instruction and student achievement must always be a central focus of school improvement efforts, it is possible that efforts at instructional improvement may be difficult to effect and sustain in those schools or districts with underlying challenges related to culture, staff, or leadership.

The report suggests ways in which existing school improvement policies or programs might shed greater light on these underlying challenges.

#### **Comprehensive School And District Improvement Planning**

Comprehensive School Improvement Plans (CSIPs) and Comprehensive District Improvement Plans (CDIPs) are the primary mechanisms by which KDE might support and monitor improvement efforts of individual districts and schools across the commonwealth. These plans currently pay little or no attention to staff turnover or working conditions data and focus relatively less on climate and culture challenges than on academic or instructional challenges.

District and school administrators interviewed for this report, while supportive of the planning process generally, noted ways in which the process might be improved to assist with planning

<sup>&</sup>lt;sup>c</sup> CSI schools analyzed for this report were identified based on actual scores that do not take into account student demographic characteristics.

and reduce unnecessary paperwork. They identified issues with the burdensome amount of specific requirements for the plan; timing of the plans as out of step with data and natural planning cycles; and limited feedback or support from KDE.

KDE staff noted reduced staffing available for plan review relative to previous years and limitations in KDE's ability to influence district implementation due to the fact that schools are locally controlled.

Data collected for this report and in previous research warrant review of the CSIP and CDIP process and opportunities for input from a variety of stakeholders.<sup>d</sup> Based on additional input, the Kentucky Department of Education, the Kentucky Board of Education, and the General Assembly might consider changes to the CSIP and CDIP requirements and to KDE's role in monitoring these plans. These changes might include efforts to minimize paper work; align timing and structure of school plans with school and district planning needs; place greater attention on staffing and leadership issues; and identify schools and districts in greatest need of support or direction related to specific data points.

## **Recommendation 3.1**

KDE should consider soliciting feedback from superintendents, principals and school based decision-making councils (SBDM)s about CSIP and CDIP requirements and processes. Feedback should include: positive effects of the process; which elements might be required annually and which on a rotating basis; timing of submissions; software functionality; desired feedback; and desired sources of support.

#### **Recommendation 3.2**

By August 1, 2025, the Kentucky Board of Education should submit to the Interim Joint Committee on Education recommendations for any statutory changes or additional legislation that would allow for the department to carry out meaningful review, feedback, and monitoring of CSIPs or CDIPs in select districts or schools. Recommendations might include additional authority, if any, of the department to require schools or districts to take specific actions.

#### **Statutory Guidance**

While several statutes reference annual plans, statutes do not specifically authorize CSIPs and CDIPs as they apply to the annual plans currently required of districts and schools. Based on feedback from the KDE and various education stakeholder groups, the General Assembly may wish to consider such legislation.

<sup>&</sup>lt;sup>d</sup> Data collected for this report were limited to 14 schools and districts and are not necessarily representative of all schools and districts in the commonwealth.

# **Recommendation 3.3**

The General Assembly may wish to introduce legislation directing the Kentucky Department of Education to collect, review, and monitor school and district comprehensive plans. The legislation might address additional authority, if any, of the department to require districts or schools to take specific actions under certain conditions.

## Working Conditions Survey

KDE's biennial working conditions survey provides data that can identify critical foundational gaps that are barriers to improvement in lowest-impact schools and to maximizing student outcomes in others. As noted in the report, local leaders may lack the awareness, skills, or, on occasion, the will to address some of the challenges identified in schools with unfavorable working conditions .While KDE encourages schools and districts to use working conditions data, the department does not currently provide guidance or support for addressing issues identified in data.

#### **Recommendation 3.4**

In connection with release of data from its working conditions survey, KDE should consider providing a list of resources and supports for schools seeking to understand and improve specific challenges identified by educators in survey data. Resources might include those available through the department, through the state's local educational cooperatives, best practice sites, professional organizations, or vendors.

#### Intervention And Assistance For Low-Performing Schools

Currently, requirements for intervention and support in the Kentucky's lowest-performing schools are provided entirely by the federal government through the Every Student Succeeds Act (ESSA) of 2015. <sup>e1</sup> ESSA requires state departments of education to allocate resources to schools identified for intervention and gives states discretion in how those resources are allocated.

KRS 160.346 guides implementation of ESSA in the commonwealth. Among other things, the statute requires KDE to approve a "turnaround vendor list" of vendors to assist the state's lowest-performing schools that have been identified for Comprehensive School Improvement (CSI). The vendors should have "documented success at providing turnaround diagnosis, training, and improved performance of organizations." Given the specific challenges documented in this report related to climate, culture, student behavior, and staff turnover in CSI schools, the Kentucky Board of Education should endeavor to include on the approved vendor list, at least one vendor, in addition to KDE, with a successful track record assisting schools with such challenges.

<sup>&</sup>lt;sup>e</sup> See OEA's Assistance to Low-Achieving Schools And Districts report of 2010 for Kentucky-specific programs, such the Highly Skilled Educators, that were provided in the past.

## **Recommendation 3.5**

In assembling the list of vendors required by KRS 160.346 (1)(a), the Kentucky Board of Education should seek vendors with experience assisting districts to support schools with sustained challenges related to staff turnover; school climate and culture; and student behavior.

<sup>&</sup>lt;sup>1</sup> Commonwealth of Kentucky. Office of Education Accountability. *Assistance To Low-Achieving Schools And Districts: Strengths, Limitations, And Continuing Challenges.* Frankfort, KY: Legislative Research Commission, 2010.

This study identifies Kentucky schools that perform far better academically than would be predicted based on student demographic characteristics – "highest impact schools" – versus those that perform relatively much worse than predicted – "lowest impact schools."

Highest-impact schools have strong local leaders, have embraced systems for instruction and behavior, and set and maintain high expectations of students and staff.

Staff longevity and positive school climate, culture and student behavior may form the cultural building blocks upon which instructional reforms depend but are relatively less emphasized in school and district improvement planning.

Characteristics of highestimpact schools in Kentucky are supported by research but difficult to attain. Lowestimpact schools face many barriers.

# Chapter 1

# **Introduction and Background**

This study identifies Kentucky schools that perform far better academically than would be predicted based on student demographic characteristics— "highest-impact schools"—versus those that perform relatively much worse than predicted— "lowest-impact schools." Based on statewide data and site visits to 14 schools across the commonwealth, it seeks to understand school practices that might contribute to higher academic achievement; specific barriers to school improvement in lowest-impact schools; and what types of policies or supports might assist lowest-impact schools in achieving better outcomes.

Highest-impact schools are distinguished from lowest-impact schools by systems for instruction and behavior that are collectively embraced by teachers and administrators. These systems set and maintain high expectations of student and staff and are built and maintained by effective school or district leaders and supported by experienced teacher teams.

Statewide data highlight strong contrasts between highest- and lowest-impact schools on indicators related to teacher working conditions, especially climate, culture, and student behavior. In addition, lowest-impact schools are much more likely than highestimpact schools to experience high staff turnover rates. These statewide measures related to school environments and staffing may form the cultural building blocks upon which instructional reforms depend but are relatively less emphasized in school and district improvement planning.

Characteristics of highest-impact schools as identified in this study are well established in educational research, outlined in Kentucky Department of Education (KDE) guidance documents, and addressed in various training opportunities for district and school staff. Yet, these characteristics can be challenging to attain, especially in some settings. Barriers in lowest-impact schools include staff turnover; absence of experienced leadership teams; and lack of awareness, capacity, or, sometimes, political will to carry out the actions necessary to build and maintain strong systems. The report suggests steps to leverage existing resource and policy structures to guide and support lowest-impact schools. The report suggests steps that might be taken to leverage existing resources and policy structures, especially the comprehensive planning required of districts and schools, for guidance and support in lowest-impact schools.

# **Description Of This Study**

#### **Study Request**

In November, 2023, the Education Assessment and Accountability Review Subcommittee requested that the Office of Education Accountability study the characteristics of higher- and lowerimpact schools in the commonwealth. The committee requested that the study use available data to describe differences between these relatively higher-performing schools and others in the state.

# **Organization Of The Report**

The remainder of Chapter 1 describes, data, methods, and major findings of the report and summarizes differences between actual school performance and performance as measured by school impact.

Chapter 2 uses statewide data to describe broad differences among highest- and lowest-impact schools on teacher working conditions; culture and climate; staffing; school finances; and instructional time.

Chapter 3 uses site visit data to illustrate differences in instructional and behavioral systems and leadership in highest- and lowest-impact schools. It describes relevance of data in the report to existing school improvement structures and makes recommendations about how existing policy structures might be used to expand identification of and support for challenges in lowest-impact schools.

# **Major Findings**

# Climate, Culture, And Student Behavior

Statewide, students and teachers in highest- versus lowest-impact schools were more much likely to report supportive, kind and respectful relationships among students and between students and teachers; fair, consistent rules; and fewer classroom disruptions.

Chapter 1 describes data methods, and major findings and summarizes performance.

Chapter 2 uses statewide data to describe differences in highest- and lowest-impact schools.

Chapter 3 highlights differences in instructional systems and leadership of highest- and lowest- impact schools and makes recommendations.

Teachers and students in highest-impact schools reported more favorable climate, culture, and student behavior.

Site visit data indicated strong and consistent schoolwide norms and behavior systems in highest-impact schools. Teachers in lowest-impact schools report feeling isolated and supported, especially with persistent student behavior challenges.

Highest-impact site visit schools had well-developed instructional systems with common elements, consistent with existing research on effective schools.

Lowest-impact schools inconsistently implemented instructional systems, and had insufficient accountability and support for struggling teachers and students.

Principals have critical roles in the success of highest-impact schools and provide both accountability and support. Data related to climate and culture and student behavior distinguish highest- from lowest-impact schools more than any other statewide data on school characteristics.

Site visits data indicated strong schoolwide norms and behavior systems in highest-impact schools and little variation among classrooms and teachers. In lowest-impact schools, student behavior varied considerably among classrooms. Teachers struggling with student relationships or behavior reported feeling discouraged and sometimes isolated and unsupported. Teachers specifically noted the detrimental effects on entire classrooms when a small percentage of students are disengaged or disruptive.

## **Instructional Systems**

Consistent with existing research on effective schools, almost all highest-impact site visit schools had well-developed instructional systems that clarified expectations for teachers and students based on collectively developed curriculum documents and classroom assessments.<sup>a</sup> These systems featured ongoing team analysis of student assessment data and classroom work; systematic support for both teachers and students not meeting expectations; and commitment to high standards for classroom instruction and student work.

Pieces of these instructional systems were present in lowest-impact schools but inconsistently implemented. Instructional practices and quality varied greatly among individual classroom. Accountability and support for struggling teachers and students was insufficient to meet their needs.

# **Stable, Effective Leadership Teams**

**Principals.** Principals in highest-impact site visit schools played critical roles in building instructional systems, creating positive environments in which students and teachers felt supported, and providing accountability when either students or teachers did not meet expectations. In some site visit schools, district administrators also served key leadership functions related to system-wide accountability and support.

<sup>&</sup>lt;sup>a</sup> As outlined in KRS 160.345, local superintendents, in consultation with local boards, have the authority to determine curriculum, textbooks, and instructional materials provided to schools. School administrators and teachers in highest-impact schools used these documents as a base but added many additional elements that clarified instructional expectations and established systems for teacher feedback and student remediation.

Building and maintaining productive environments for teaching and learning involved great investments of time and resources to support staff and students. It also required leaders to make difficult decisions about staff or students and have the political will to stand behind those decisions if unpopular with some parents, teachers, or community members.

**Experienced Teacher Teams.** In highest-impact site visit schools, experienced teacher teams played critical roles in maintaining instructional and behavioral systems. Teacher leaders worked together to monitor student learning and behavior; to assist newer teachers in developing the skills necessary to meet high standards of the school; and to maintain schools' high standards by modeling what is possible and maintaining group norms.

Lowest-impact site visit schools lacked these experienced teacher teams to establish content-specific instructional expectations or provide support for teachers who were unable or unwilling to meet instructional expectations.<sup>b</sup>

# Teacher And Principal Turnover

Teacher and principal turnover pose a strong barrier to improvement in lowest-impact schools. Whereas site visit data suggest that it may take 7 years or more for principals and teachers to build strong instructional and behavioral systems, the average principal tenure in highest-impact schools was 6 years, or 1.5 times higher than the average of 4 years lowest-impact schools. Conversely, teacher turnover was an average of 21 percent in lowest-impact schools, or 1.4 times higher than the average of 15 percent in highest-impact schools.

## Disproportionate Working Condition And Teacher Turnover Challenges In Schools Identified For Comprehensive School Improvement

The report notes especially great challenges related to managing student behavior and building positive relationships among staff and students in schools identified for Comprehensive School Improvement (CSI) under federal requirements. These schools also experience very high rates of teacher turnover and, at the middle and high school level, principal turnover. Ideally, districts with CSI schools would be able to select from a variety of vendors that have demonstrated success in working with district leaders to address

Experienced teacher teams were critical to maintaining instructional and behavioral systems in highest-impact schools, but were lacking in lowest-impact site visit schools.

Higher teacher and principal turnover was a barrier to school improvement in lowest-impact schools.

Schools identified for Comprehensive School Improvement (CSI) have high staff turnover and challenges with relationships and student behavior.

<sup>&</sup>lt;sup>b</sup> In one school, these teams existed in one grade level but not others.

these types of challenges. Turnaround efforts that focus on instructional improvements without addressing these underlying challenges may not be sustainable.

#### Data And Methods Used In The Report

#### Data

The report uses student-level assessment, demographic, program data, and survey data from the KDE.

OEA conducted site visits to 14 schools representing all school levels, geographic reasons.

The report gives five categories of "impact" based on the degree to which the school falls above or below what is statistically predicted for that school based on student characteristics.

Appendix B describes the statistical model that takes into account student factors.

To identify highest- and lowest-impact schools, the report uses student-level assessment, demographic, and program data from the Kentucky Department of Education for the 2022 and 2023 school years.<sup>c</sup> It looks for differences among these schools based on school-level data including expenditures, staffing, turnover, attendance, instructional hours, school climate and safety surveys completed by students, and the Impact KY Working Conditions Survey administered every two years by the department. Please note that the report will refer to the Impact KY survey exclusively as the working conditions survey.

Site visit data from the 8 highest- and the 6 lowest-impact schools representing all school levels and geographic regions of the state are used to provide context for state-level data and to look for differences in school practices among sampled schools. Additional data related to site visit selection and protocols are provided in Appendix A.

#### Methods For Identifying School Impact

The report gives each school an "impact" score based on the degree to which the school falls above or below what is statistically predicted for that school based on student characteristics. The report groups schools into five categories ranging from lowest to highest impact. Lowest-impact schools are those in which students perform far below similar students across the state. Highest-impact schools are those in which students perform far above similar students.

Using a statistical model described in Appendix B, the report takes into account student factors such as family poverty as measured by eligibility for the federal free or reduced-priced lunch program; eligibility for special education; Limited English Proficiency; homelessness; whether a student moved during the academic year; race and ethnicity; whether the student is enrolled in a highest-

<sup>&</sup>lt;sup>c</sup> This report refers to school years by the year in which the school year ended. For example, the 2021-2022 school year is referred to as 2022 and the 2022-2023 school year is referred to as 2023.

Because the analysis relies exclusively on standardized test scores, it does not capture many important elements of successful schools . The statistical method may advantage schools that identify students for special education at very high rates. Legislative Research Commission Office Of Education Accountability

poverty school; and the percentage of adults in a student's community with a bachelor's degree or higher.

Limitations. The method OEA used to identify highest-and lowest impact schools has advantages over standard test performance in identifying successful schools but is still limited in its exclusive use of standardized test scores to gauge success. Many characteristics of schools that are desirable to policymakers, families, employers, and other education stakeholders are not measured through these tests. In addition, the model introduces some statistical limitations which may disadvantage schools with lower student poverty rates and lower rates of special education identification.<sup>d</sup> For example, data shown in Appendix C illustrate the relative advantage of the model for schools that identify students for special education at very high rates. The appendix shows that when school impact is calculated only for students without IEPs, some schools identified as highest-impact by the model are no longer in that category.

#### School Performance Actual And Impact

This section illustrates key differences between actual and impact scores by showing differences in the poverty levels of schools when performance is determined by each method. Students' eligibility for the federal free or reduced-priced lunch program is used as a proxy for family poverty.<sup>e</sup> Appendix D differences in actual versus impact performance categories based on special education eligibility, limited English proficiency, race and other demographic categories included in the model.

Figure 1.A illustrates the strong association of student poverty and actual student performance in Kentucky elementary schools.

<sup>e</sup> Students are eligible for free lunch if their family income puts them within 130 percent of the federal poverty level and eligible for reduced-priced lunch if their families are within 185 percent of the federal poverty level.

<sup>&</sup>lt;sup>d</sup> The statistical model may make it more difficult for lower-poverty schools to achieve higher ratings. In addition, the model may privilege schools that identify students for special education at rates that far exceed the state's and disadvantage schools that identify students at much lower rates. Finally, as noted in OEA's 2023 *Effectiveness And Efficiency of Kentucky School Districts* report, the statistical model used by OEA in its district impact analysis does not explain most of the variance observed in outcomes among students. While the results from the model provide important information about student performance that is not available from actual, unadjusted scores, it is not intended to provide an alternative means of ranking districts and does not report impact scores for individual schools. All statistical models have their own limitations which may affect some school districts more than others.

#### Legislative Research Commission

#### Office Of Education Accountability

If schools are judged by actual test scores alone then almost no highest-poverty schools appear successful and most lowestperforming schools are higherpoverty schools.

When schools' demographic characteristics are taken into account, the relative performance increases in many higher poverty schools and decreases in many lowerpoverty schools. The figure groups elementary schools into five categories, ranging from lowest to highest, based on students' actual performance on state tests.<sup>f</sup> Within each category the figure indicates the number of schools that fall in lowest to highest levels of poverty. Almost all of the schools in the highest level of actual performance are lower-poverty schools whereas almost all of the schools in the lowest performance level are higher poverty schools.<sup>g</sup>

Figure 1.B groups schools by "impact" performance level which is determined by how each school performs compared to statistically similar schools across the state. Compared with Figure 1.A (actual performance), Figure 1.B shows a much greater number of lower poverty schools in the highest category of performance and a much lower number of higher poverty schools in the lowest category of performance. Schools that do not stand out as highest performers by actual scores may offer important lessons on how to improve outcomes for the students who attend schools with high percentages of students who typically perform below state averages.

<sup>&</sup>lt;sup>f</sup> These include scores for all students in reading and mathematics in grades 3-8 and 10; science, social studies, and writing once at each school level.

<sup>&</sup>lt;sup>g</sup> In Kentucky, as in the nation, academic performance is highly associated with student demographic characteristics such as economic disadvantage, limited English proficiency, and disability status. Students in some schools perform better than demographically similar students across the state on student assessments and other measures of student success.

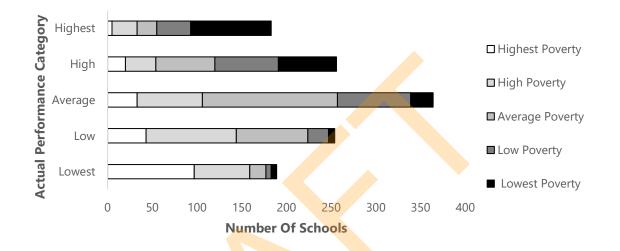
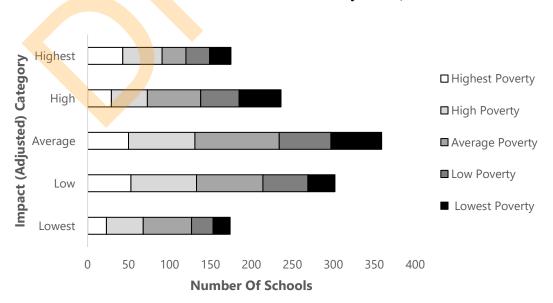


Figure 1.A Number Of Schools By Actual Performance Category And Poverty Level, 2022 And 2023

Source: Staff analysis of data from the Kentucky Department of Education

Figure 1.B Number Of Schools By Adjusted (Impact) Performance Category And Poverty Level, 2022 and 2023



Source: Staff analysis of data from the Kentucky Department of Education.

Using actual assessment results to identify high-performing schools may not reveal best practices for several reasons.

When student demographics are taken into account, many CSI schools are no longer in the lowest performance category.

Most highest-impact schools are also higher-performing by actual scores. Figure 1.A, above, illustrates challenges in using actual assessment

Chapter 1

results to identify high-performing schools as the source of best practices that might be shared with all schools. High-performing schools are generally not representative of the types of school communities found across the state. Further, in the cases of both higher- and lower-performing schools, the degree to which student outcomes are associated with school practices versus characteristics of students who typically live in lower- or higherpoverty communities may not be clear. The performance of students in some of the state's higher-performing schools may look average when compared to similar schools across the state whereas the average performance of some of the state's highest-poverty schools may look very high when compared to similar schools across the state.<sup>h</sup>

**CSI Schools Actual Versus Impact.** Analysis of schools' actual versus impact categories show that many of the states' lowest-performing schools—those identified for Comprehensive School Improvement—appear relatively less low-performing when the performance of students in the school is compared to similar students in schools across the state. As shown in Appendix E, almost all schools identified as CSI were in the lowest performance category of actual scores. Fewer numbers of CSI elementary schools and almost no CSI middle and high schools are in the lowest-impact category was 58 percent the elementary level, 42 percent at the middle school level and only 17 percent at the high school level.

#### **Difference Actual And Impact Performance**

As shown in Appendix E, school categories generally do not change dramatically when calculated by actual versus impact scores; most of the highest impact schools are well above average in actual scores whereas most of the schools in the lowest-impact category were well below average in their actual scores.

<sup>&</sup>lt;sup>h</sup> OEA visited the school with highest impact rating in the state. This was a very high-poverty elementary school that was already in the highest performance category by actual scores. Several of OEA's site visit schools were those that looked only slightly below average on actual scores but were in the lowest impact category when student demographic characteristics were taken into account.

#### Summary Of Differences Between Highest- And Lowest-Impact Schools

Figure 1.C summarizes key differences between highestand lowest-impact schools. Figure 1.C summarizes key differences between highest- and lowest-impact schools as identified in this report and shows which elements are supported by statewide data versus site visit data alone.

Statewide data come from teachers' responses to KDE's working conditions survey and student responses to KDE's school climate and safety survey.

## Figure 1.C Characteristics Of Highest- Impact Schools 2022 and 2023

	Statewide	Site Visit
School Characteristics	Data	Data
Common, Aligned, Instructional Systems Based On High Expectations		
Curriculum scope and sequence		х
Assessment – classroom and unit		х
Collective analysis <mark>of studen</mark> t data an <mark>d wo</mark> rk		х
Instructional monitoring, support, and accountability	х	х
Student rem <mark>edia</mark> tion		х
School Climate And Culture		
Positive, Supportive	х	х
Orderly behavior; accountability for student misconduct	х	х
Leadership With Accountability And Support		
Principals	х	х
Experienced teacher leaders		х
District leaders		х

Note: Statewide data based on KDE working conditions survey responses of teachers and school climate and safety survey responses by students.

Source: Staff compilation of data sources and findings of the report.

Conclusions of the report reflect best practices as supported by existing research and outlined in various KDE guidance documents. All of the conclusions reached in this study about practices in highest-impact schools are supported by existing research and outlined in various guidance documents by the Kentucky Department of Education.

## **Research On Effective Schools**

#### **Effective Schools**

Research has shown characteristics of effective schools to include high expectations, instructionally focused leadership; data-driven instruction; a focus on human capital, and additional support for high-need populations.

Effective leaders impact school organization, culture, teacher retention, and student outcomes. They also identify and support teacher leaders. Practices highlighted in studies on effective schools include high expectations; stable, instructionally-focused leadership; systems of aligned expectations for curriculum and assessment; data-driven instruction; intentional human capital strategies that raise capacity of teachers and leaders (these include but are not limited to professional development and frequent teacher feedback); community investment and engagement; increased instructional time; cultures of collaboration; and targeted support for high-need populations.<sup>1</sup> One of these studies was conducted by the Prichard Committee for Academic Excellence in 2005, looking for differences between Kentucky high- and low-performing high-poverty schools.

## Leadership

Decades of research show that effective principal leadership can have strong effects on school organization, culture, teacher retention, and student outcomes. The most effective schools also include strong leadership teams of teachers and other school staff. Principals play important roles in identifying these leaders, helping them to develop, and supporting leadership teams.<sup>2</sup> <sup>1</sup> Will Dobbie and Roland Fryer. "Getting Beneath the Veil Of Effective Schools: Evidence From New York City." *American Economic Journal; Applied Economics.* Vol 5, no. 4, Oct., 2013. ; Patricia Kannapel et al. "Inside The Black Box Of High-Performing, High-Poverty Schools." Prichard Committee For Academic Achievement. Feb., 2005. Organization For Economic Cooperation And Development. "OECD Review Of Policies to Improve Effectiveness Of Resource Use In Schools," p.111.

<sup>2</sup> Paul Manna, "States As Leaders, Followers, And Partners: Lessons From The ESSA Leadership Learning Community And The University Principal Preparation Initiative." Wallace Foundation. Nov., 2022., p.1.

This chapter uses statewide data to analyze differences between highest- and lowest-impact schools. Differences are greatest in data related to student behavior, positive relationships, and staff turnover.

While per-pupil spending does not differ between highest- and lowest-impact schools, the percentage of expenditures that are directly for classroom instruction are slightly greater in highest-impact schools.

KDE administers a biennial working conditions survey to all certified educators. The survey is based on research showing that teacher effectiveness is influenced by working environments.

# **Chapter Two**

# Statewide Differences Between Highest- and Lowest-Impact Schools

This chapter uses statewide data to highlight differences between highest- and lowest-impact schools.<sup>a</sup> Highest- and lowest-impact schools are distinguished most by data related to student behavior; climate and culture; and staff turnover. The data presented in this chapter are consistent with site visit data that will be described in Chapter 3 noting differences in school culture between highestand lowest-impact schools and the degree to which schools are preferred working destinations for teachers.

Financial data show no clear differences among highest- and lowest-impact schools on per-pupil spending, but do show modest differences between schools in the percentage of expenditures that are directly for classroom instruction versus school instructional or administrative support. These differences are likely explained largely by the fact teachers in highest-impact schools, on average, have more years of experience than teachers in lowest-impact schools and are therefore at higher pay scales.

#### **KDE** Working Conditions Survey Data

#### **Description Of Survey**

Every two years, the KDE administers a working conditions survey to all certified educators. Data for schools with at least 10 responses and a 50 percent response rate are available on the KDE website.<sup>b</sup>The working conditions survey is administered by Panorama, a private, for-profit company. According to Panorama, the survey is based on research showing that teachers' effectiveness can be either constrained or supported by their school working environments. Teachers in buildings with favorable

<sup>&</sup>lt;sup>a</sup> For each topic covered, data for all five impact categories are provided in appendixes.

<sup>&</sup>lt;sup>b</sup> Response rates were lower in 2024 than in 2022. (77.6 percent and 85 percent, respectively). In 2024, working condition survey data for about 15 percent of schools were not reported because they did not meet the 50 percent threshold.

OEA analyzed student achievement in schools with

working conditions.

favorable working conditions

and schools with less favorable

conditions improve at faster rates and stay in the classroom longer than other teachers.<sup> $c_1$ </sup>

#### **Relationship Between Teacher Working Conditions And School Impact On Academic Achievement**

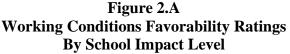
OEA analyzed the relationship between teacher responses on the working condition survey and the impact of the schools in which they work on student achievement.<sup>d</sup> Staff ranked schools by the percent of teachers who responded favorably on the working conditions survey, classifying schools ranking substantially above the average as having more favorable working conditions and those as substantially below the average as having less favorable working conditions.<sup>e</sup>

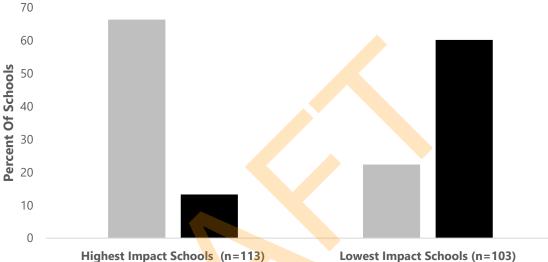
Lowest-impact schools were almost four times as likely to have less favorable working conditions than highest impact schools. As shown in Figure 1.A, lowest-impact schools were almost four times as likely as highest-impact schools to have less favorable working conditions data (60 percent and 13 percent, respectively) and much less likely to have favorable working conditions data (22 percent and 66 percent, respectively).

<sup>&</sup>lt;sup>c</sup> According to Panorama, schools are organizations that influence the behavior of staff as well as students and that favorable working conditions cause teachers to improve at faster rates and stay in the classroom longer than schools with unfavorable conditions. The survey is intended to measure influential factors such as the quality of collaboration and relationships among staff, the behavioral and academic expectations for students, and the responsiveness of administrators.

<sup>&</sup>lt;sup>d</sup> OEA's analysis includes responses of teachers only. Teachers comprised 87 percent of all respondents. Others included other certified staff (such as school counselors and school psychologists), principals, and assistant principals. <sup>e</sup> Schools that were considered substantially above average if they were more than one third of a standard deviation above the mean and substantially below average if they were more than one third of a standard deviation below the mean.







Note: OEA defined schools with higher favorable working conditions to be those in which the percent of favorable responses was in the highest or high category and schools with lower favorable working conditions to be those in the low or lowest category. Categories were computed by OEA using methods described in Appendix F. The number of schools included in this analysis was smaller than the total number of schools because only 797 out of 1246 schools or 64 percent of schools met the threshold to report school-level responses in both 2022 and 2024. Of the 175 highest-impact schools, 113 schools or 65 percent met the threshold to be included in the analysis. Of the 174 lowest-impact schools, 103 schools or 59 percent met the threshold.

School impact performance categories are based on data from the 2022 and 2023 school years. Teacher working conditions survey data are from the 2022 and 2024 school years. Source: Staff analysis of data from the Kentucky Department of Education/.

**Overall, teachers' favorability** ratings were highest on staff/leadership relations questions and lowest on resource-related questions.

Highest- and lowest-impact schools varied most on questions related to student behavior, school climate, and feedback/coaching.

Table 2.1 shows the percentages of teachers in highest- and lowestimpact schools that responded favorably to questions in different topic areas. Overall, favorability ratings were highest on questions related to staff/leadership relations (76 percent) and lowest on resource-related questions (50 percent). Appendix F shows differences in overall favorability by school level. On average, differences between levels are greatest at the elementary level and least at the high school level.

Differences between highest- and lowest-impact schools were greatest in topic areas related to managing student behavior; school climate, and feedback/coaching.

Onice	Luucation P

	Percent Favorable Responses			
	Average All	Highest	Lowest	Difference Highest
Category	Schools	(n=144)	(n=154)	and Lowest
Managing Student Behavior	66%	77%	57%	19%
School Climate	63	74	55	19
Feedback and Coaching	57	68	51	17
Emotional Well-being	53 <	63	47	16
Resources	50	58	43	15
School Leadership	66	74	59	15
Professional Learning	59	67	54	13
Staff/Leadership Relationships	76	81	73	9
Educating All Students	67	71	65	7
Overall Favorability Ratings	63	72	58	14

#### Table 2.1 Working Conditions Favorability Ratings Of Teachers In Highest and Lowest Impact Schools, By Topic Area 2022 And 2024 Survey Data\*

\*School impact performance categories are based on data from the 2022 and 2023 school years. Teacher working conditions survey data are from the 2022 and 2024 school years. Source: Staff analysis of data from the Kentucky Department of Education.

Table 2.2, shows the top 10 questions in which responses of teachers in highest- and lowest-impact schools differed the most. These questions were all related to the behavior of students and to school resources. Appendix F shows differences between highest- and lowest-impact schools on all survey questions.

Related to the behavior of students, teachers in highest-impact schools were much more likely than those in lowest-impact schools to respond favorably on questions related to supportive interactions among students; classroom disruptions due to student misconduct; students' enthusiasm about being in school; students being helpful to each other; and respectful relationships between teachers and students. In addition, teachers in highest-impact schools were more likely to agree that school leaders were effective in developing school rules that facilitate learning.

Teachers' favorability ratings on resource-related topics were only 50 percent overall, but were substantially lower among teachers in lowest-impact schools. Data analyzed for this study shed little light on why teachers in highest- and lowest-impact schools differed so greatly on general questions related to resources.<sup>f</sup> As discussed

Teachers in highest- versus lowest-impact schools were much more likely to respond favorably on questions related positive relationships and orderly behavior.

Resource-related favorability ratings were only 50 percent for all teachers, but were substantially lower among teachers in lowest-impact schools.

<sup>&</sup>lt;sup>f</sup> OEA site visit interviews indicated few differences between the variety of answers given by teachers in highest- and lowest-impact schools when asked

Teachers in highest- versus lowest-impact schools differed most on resource questions that were related to instructional technology, students needing extra support, and whether school facilities needed repair.

Highest-impact middle and high schools have more teachers and instructional classified staff than do lowest-impact middle and high schools. later in this chapter, per-pupil expenditures differ little between highest- and lowest-impact schools. Question-level data shown in Appendix F shows that on resource-specific questions teachers in highest- versus lowest-impact schools differed most on questions related to instructional technology, resources for students needing extra support, and whether school facilities needed repair. These differences were smaller, however, than the general resourcerelated questions shown in Table 2.2 or the question about how often students need to wait for help.

It may be that the general resource-related questions also reflect teachers' perceptions that staffing is sufficient to meet student needs. As shown later in this chapter, highest-impact middle and high schools have more teachers and instructional classified staff than do lowest-impact middle and high schools.

whether teaching, working conditions, or any other areas were negatively affected by a lack of resources.

Table 2.2
Top 10 Questions With Greatest Differences Among Teachers In Highest-
And Lowest-Impact Schools
2022 and 2024 Survey Data*

		Percent	Favorable	Responses
Category	Question	Highest Impact	Lowest Impact	Difference Highest and Lowest
	How supportive are students in their interactions			
School Climate	with each other?	75%	49%	26%
Managing Student Behavior	How often does student misconduct disrupt the learning environment at your school?	50	26	24
Resources	Overall, how much does your school struggle due to a lack of resources?	73	49	24
School Climate	On most days, how enthusiastic are the students about being at school?	70	46	23
Resources	To what extent does the quality of the resources at your school need to improve?	60	38	22
School Climate	How often do you see students helping each other without being prompted?	81	59	21
School Climate**	How respectful are the relationships between teachers and students?	83	62	21
Resources	How many more resources do you need to adequately support your student's learning?	70	51	19
School Leadership**	How effective are the school leaders at developing rules for students that facilitate their learning?	74	55	19
Resources	Wh <mark>en students need</mark> help from an adult, how often do they have to wait to get help?	72	53	19

\*Working conditions data are taken from the 2022 and 2024 school years whereas impact categories are based on 2022 and 2023 data.

\*\*This question is also included in the "managing student behavior" question category.

Note: Differences between highest- and lowest impact schools reflect rounding.

Schools with more favorable ratings are that are greater than one third of a standard deviation beyond the mean and schools with less favorable ratings are those that are more than one third of a standard deviation below the mean. Source: Staff analysis of data from the Kentucky Department of Education.

An annual school climate and safety survey is given to all Kentucky students and is included in the state accountability system.

Highest- and lowest- impact school responses varied by between 11 and 7 percentage points.

Questions with the greatest and least difference between highest- and lowest-impact schools related to how students treat each other, whether student rules are fair, and whether the school is an encouraging place.

# **Quality Of School Climate And Safety Survey**

Kentucky public school students in all tested grades participate in an annual school climate and safety survey. The results of the survey are included as a component in the state accountability system.<sup>g</sup>

On average, the difference between the percent of favorable responses in highest- versus lowest-impact schools was 8 percentage points at the elementary level, 11 percentage points at the middle school level, and 7 percentage points at the high school level. As with the teacher working condition survey, differences were greater at the individual question level.

Table 2.3 shows the questions with the greatest and least difference between highest- and lowest-impact schools at each school level. At all levels, questions with greatest differences between highest and lowest impact are related to how students treat each other, whether school rules are fair, and whether the school is an encouraging place.

<sup>&</sup>lt;sup>g</sup> Results of the survey account for 4 percent of the total accountability score.

# Table 2.3Questions With Greatest And Least DifferenceIn Percent Of Favorable ResponsesAmong Highest- And Lowest-Impact Elementary SchoolsSchool Climate And Safety Surveys2022 and 2023

	Highest Impact	Lowest Impact	Difference
Elementary			
Students being mean or hurtful to other students is NOT a problem for this			
school.	51%	31%	19%
All students are treated the same if they break school rules.	76	59	17
Students being mean or hurtful to other students online (such as websites and			
apps) is NOT a problem for my school.	63	47	15
Middle			
Bullying is NOT a problem for this school.	51	36	15
My school is an encouraging place.	83	69	13
The school rules are fair.	67	54	12
High			
Bullying is NOT a problem for this school.	56	44	13
My school is an encouraging place.	77	65	12
Students from this school respect each other's differences (i.e., gender, culture,			
race, religion, ability).	57	45	12

Source: Staff calculations based on data from the Kentucky Department of Education.

Students generally responded favorably to questions about teachers and other adults and the differences between highest- and lowest-impact schools were smaller on these questions.

Highest-impact schools had lower teacher turnover, longer principal tenure, and slightly longer superintendent turnover. In general, survey questions related to adult behavior were more favorable in all schools than those related to student behavior and the differences by impact level on adult-related questions were relatively small. Even in lowest-impact schools, for example, the average percentage of students who agreed that teachers expect them to do their best is 93 percent at the elementary and middle school levels and 89 percent at the high school level.

# **Teacher Turnover**

As shown in Table 2.4, teacher turnover is an average of 21 percent in lowest-impact schools compared with 15 percent in highest-impact schools, making turnover rates 1.4 times greater in lowest-impact schools. The table also shows that the average principal tenure is 1.5 times greater in highest- versus lowest-impact schools (6 years versus 4 years). Highest-impact schools, on average, are located in school districts in which superintendents have slightly longer tenures than the districts in which lowest-impact schools are located.

cher Turnover And Average Principal And Superintendent Tenure Highest- And Lowest-Impact Schools 2022 And 2023						
Average Teacher Impact School Turnover Principal Years Superintendent Category Count Percent At School Years At District						
Highest	175	15%	6	6		
Lowest	174	21	4	5		
All Schools	1,246	18	5	5		

Table 2.4 Teach

Note: Teacher turnover was computed as an average for the 2022 and 2023 school years. Principal and superintendent tenure was computed as of 2023.

Source: Staff analysis of data from the Kentucky Department of Education.

Lowest-impact schools are seven times as likely to have very high teacher turnover rates as highest-impact schools.

As shown in figure 2.B, lowest-impact schools are seven times as likely to have very high teacher turnover rates as highest-impact schools (35 percent and 5 percent, respectively). OEA computed high teacher turnover rates by methods described in Appendix B that considered how far turnover rates were from the average at teach school level. Very high turnover rates were 25 percent or above for elementary schools, 28 percent or above for middle schools, and 23 percent or above for high schools.

Chapter 2

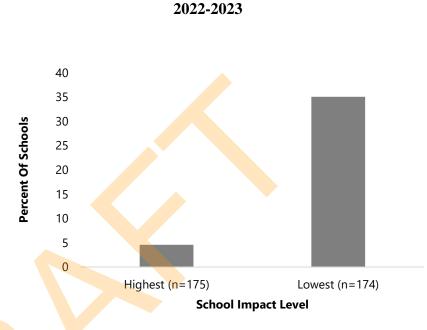


Figure 2.B Percent Of Highest And Lowest Impact Schools With Very High Teacher Turnover Rates\*

Note: Data for this figure were calculated from the subset of schools which met the response rate threshold for both 2022 and 2024.

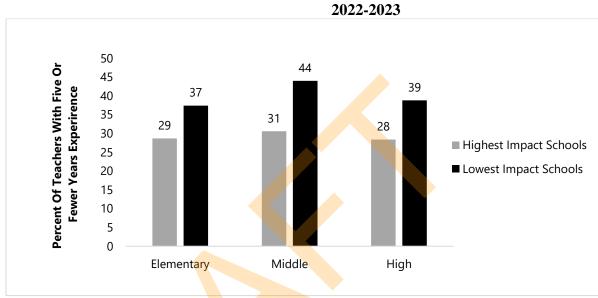
\*Highest turnover rates were calculated separately at each school level to be more than one standard deviation from the mean. Very high turnover rates were 25 percent or above for elementary schools, 28 percent or above for middle schools, and 23 percent or above for high schools.

Source: Staff calculations based on data from the Kentucky Department of Education.

# **Teachers' Years Of Experience**

As shown in Figure 2.C, the percentage of teachers with 5 or fewer years of experience is greater in lowest- versus highest-impact schools, especially at the middle school level. In lowest-impact schools 44 percent of teachers have 5 or fewer years of experience, compared with 31 percent in highest-impact middle schools.

Lowest-impact schools have a greater percentage of teachers with 5 or fewer years of experience than highest-impact schools.



#### Figure 2.C Percent Of Teachers With Five Or Fewer Years' Experience Highest and Lowest Impact Schools 2022-2023

Source: Staff analysis of data from the Kentucky Department of Education.

Newer teachers are increasingly likely to be entering through alternative teaching routes.

In over one third of districts, no teachers completed the exit survey required by House Bill 2019 of the 2023 regular session. Data available for this report do not allow for analysis of differences in teacher certification among highest- and lowest-impact schools. Schools with higher percentages of relatively new teachers are, however, more likely than others to have higher percentages of teachers entering through alternative routes as the number of alternatively certified teachers has been increased substantially in recent years. Option 6 is the most common form of alternative certification. The number of teachers entering through that option nearly doubled between 2020 and 2023. Option 6 allows a person with a bachelor's degree or graduate degree to teach while enrolled in a postbaccalaureate program to earn a full professional teaching certificate.<sup>2</sup>

#### **Teacher Exit Survey**

House Bill 319 of the 2023 regular session required districts to ensure that each employee who voluntarily leaves a district completes an exit surey. As of February 2024, only 226 teachers completed the survey. In over one third of districts (68 out of 171), no teachers completed the survey.

Appendix G provides an analysis of survey data collected through February 2024. Due to the low response rate on the survey, extreme caution should used in drawing conclusions from respondent data. Policy Requirements Related To Turnover And Working Conditions

Data presented in this chapter supports existing research indicating that staff turnover and unfavorable working conditions undermine school performance. As such, both represent critical priorities in schools and districts with high turnover rates or poor working conditions. These metrics are not included as required components of the annual comprehensive planning required of schools and districts that will be discussed in Chapter 3. For reasons discussed in that chapter, working conditions survey data would not be appropriate as a required component of comprehensive planning. Conclusions of the report will, however, recommend a greater focus on teacher turnover in comprehensive planning and increased attention to working conditions survey data in those schools and districts in which data indicates substantial challenges.

#### **School Resources**

Highest- and lowest-impact schools do not differ consistently on per-pupil expenditures but do have slightly different spending patterns. Highest- versus lowest- impact schools spend, on average, a slightly greater percentage on instruction and a slightly lower percentage on instructional support. In addition, student to staff ratios are lower in highest-impact middle and high schools, especially for classified instructional staff. Finally, school calendar data indicate a greater number of maximum instructional hours, on average, in highest- versus lowest-impact schools.

#### Expenditures

Appendix H shows per-pupil expenditure data at each school level by impact category and the percentages of these expenses that were for various functions. The data do not indicate clear differences between highest- and lowest-impact schools in per-pupil spending. As shown in Table 2.5 however, the percentage of expenditures on instructional services versus instructional support and school administrative support are slightly greater in highest- versus lowest impact schools.

Expenditures on instruction are those directly dealing with the interaction between teachers and students. Instructional support activities are associated with assisting instructional staff such as counselors, coaches, and pupil attendance workers. Admin support refers to the principal, assistant principal, and other assistants. In

As will be discussed in Chapter 3, high staff turnover and unfavorable working conditions can undermine school performance yet are not included as indicators on school and district planning documents.

Highest- and lowest-impact schools have slightly different spending patterns.

The greater percentage of expenditures on instructional services in highest-impact schools is likely explained in part by the relatively higher salaries of more experienced staff and, in middle and high schools, greater numbers of classified and certified staff per student. all three categories, staff salaries comprise the overwhelming majority of expenditures.

The slightly greater percentage of instructional services in higherimpact schools is likely explained, in part, by the relatively higher salaries of more experienced teachers in highest impact schools at all school levels and by the greater ratios of pupils to teachers and to classified instructional staff at the middle and high school levels.

Table 2.5					
Percent Of Expenditures On Instructional Services,					
Instructional Support or School Administrative Support					
2022-2023					

			School	
		Instructional	Instructional	Admin
Level		Services	Support	Support
Elem	Highest	78%	8%	7%
	Lowest	75	10	8
Middle	Highest	77	7	8
	Lowest	75	8	10
High	Highest	79	7	7
	Lowest	74	8	9

Notes: Expenditures on instruction are those directly dealing with the interaction between teachers and students. Instructional support activities are associated with assisting instructional staff such as counselors, coaches, and pupil attendance workers. Admin support refers to the principal, assistant principal, and other assistants. In all three categories, staff salaries comprise the overwhelming majority of expenditures.

OEA excluded food and transportation services from the calculation of the percentages shown in table 2.5

Source: Staff analysis of data from the Kentucky Department of Education

#### **Staffing Ratios**

Table 2.6 shows that ratios of students to teachers and students to classified instruction staff are lower in highest- versus lowest-impact middle and high schools. This means that for every student there are more teachers and classified instructional staff in highest-versus lowest-impact middle and high schools. As shown in Appendix I, these differences do not exist for elementary schools.

Table 2.6 also shows higher student to administrator ratios in highest-versus lowest middle and high schools. This means that lowest-impact schools have relatively more administrators per student than highest-impact schools.

Highest-impact middle and high schools have more classified staff and teachers per student than lowest-impact middle and high schools.

Lowest-impact schools have more administrators per student than highest-impact schools.

Highest and Lowest Impact Schools						
Level	Impact Category	School Count	Student to Teacher	Student to Classified Instructional Staff*	Student to Administrator	
Middle Schools	Highest	47	14.9	88	249	
	Lowest	47	15.8	132	219	
High Schools	Highest	29	15.2	132	307	
	Lowest	30	17.6	175	264	

## Table 2.6Student To Staff RatiosHighest and Lowest Impact Schools

\*Most classified instructional staff are instructional aides.

Note: Calculations are based on full-time equivalent staff.

Source: Staff analysis of data from the Kentucky Department of Education.

#### Maximum Instructional Hours Comparison By School Level

OEA staff used the master calendar data for all districts to conduct an analysis on the maximum instructional hours for schools grouped by Impact category. Table 2.7 shows the difference in the average maximum instructional hours for schools in the highest and lowest impact categories for all 3 school levels.

# Table 2.7Average Maximum Instructional Hours<br/>Comparison Between SchoolsHighest Impact Category Relative To The Lowest Impact Category<br/>By School Level

		2580		<b>_</b>		
	Elementary		Middle		High	
Impact Category	School Count	Maximum Instructional Hours	School Count	Maximum Instructional Hours	School Count	Maximum Instructional Hour
Highest	99	1,145	47	1,133	29	1,145
Lowest	97	1,122	47	1,117	30	1,119
All Schools	702	1,142	317	1,137	227	1,133

Source: Staff analysis of data from the Kentucky Department of Education.

Lowest-impact schools had fewer maximum instructional hours on average, than highestimpact schools. At all 3 school levels, lowest-impact schools had the fewest maximum instructional hours, on average. Elementary schools in the lowest-impact category had 23 fewer maximum instructional hours on average relative to the elementary schools in the highest Impact category. At the middle school level, schools in the lowest-impact category had 16 fewer maximum instructional hours on average than the middle schools in the highest residual category. <sup>h</sup>

<sup>&</sup>lt;sup>h</sup> Schools from the highest and the lowest impact categories had fewer maximum instructional hours than the average for all middle schools, however, so instructional hour trends at the middle school level are not clear.

Kentucky's comprehensive school improvement (CSI) schools have greater challenges related to teacher working conditions and staff turnover than lowest-impact schools generally.

Teacher turnover is a challenge in CSI schools nationally forcing these schools to hire less experienced or effective teachers.

Nationally, CSI schools are disproportionately found among high-poverty schools and schools in which the majority of students are Black or Hispanic.

Student demographics in Kentucky's CSI schools show similar patterns. High schools in the lowest-impact category had 26 fewer maximum instructional hours on average relative to the high schools in the highest-impact category.

#### Lowest-performing Schools By Actual Scores And Schools Identified For Comprehensive School Improvement

Appendix J shows that the differences between highest- and lowest-impact schools in teacher working conditions and staff turnover also exist for highest- and lowest-performing schools as measured by actual scores.

Appendix K shows that the state's lowest-performing schools that have been identified for comprehensive school improvement (CSI) have high rates of staff turnover and face even greater challenges associated with culture, climate, and student behavior than do lowest-impact schools, on average.

Data collected from CSI schools across the nation also note challenges with teacher shortages and turnover. Leaders in these schools report that teachers feel it is less desirable to work in highneeds schools and, due to teacher turnover, schools are forced to hire less inexperienced or effective teachers. Forty-one percent of CSI schools' turnaround plans reviewed by the Unites States Government Accountability Office cited access to effective educators as a key challenge.<sup>3</sup>

National data on CSI schools shows that they are found disproportionately among high-poverty schools, schools in which the majority of students are Hispanic, and schools in which the majority of students are Black.<sup>4</sup> Only 4 elementary schools in Kentucky have student populations in which the majority of students are Hispanic. The number of Kentucky schools in which the majority of students are Black is 41 at the elementary level, 9 at the middle school level, and 8 at the high school level.

Data on Kentucky's CSI schools are provided in Appendix K. Consistent with national data, Kentucky CSI schools are found disproportionately among the state's highest-poverty schools and even more disproportionally among the schools with highest percentages of Black students. In addition, compared with schools that have not been identified in any federal improvement category, the percentage of LEP students in CSI schools is over three times greater at the elementary level, and 21 times greater at the middle and high school levels. Appendix L shows the number of schools by Kentucky district that have demographic characteristics of schools more likely to be lower performing. Appendix L shows the number and percent of schools by district that are highest-poverty; highest percentages of LEP students; and in which the majority of students are Black.

<sup>&</sup>lt;sup>1</sup> John Papay and Mathew Kraft. *Developing Workplaces Where Teachers Stay, Improve, and Succeed.* Albert Shanker Institute. Web. May 28, 2015.

<sup>&</sup>lt;sup>2</sup> Commonwealth of Kentucky. Office of Education Accountability. "Kentucky Public School Employee Staffing Shortages." Legislative Research

Commission, 2023. xi.

 <sup>&</sup>lt;sup>3</sup> United States Government Accountability Office. "Education Could Enhance Oversight Of School Improvement Activities." Web. Jan, 2024.
 <sup>4</sup> Ibid.

This chapter describes differences in the instructional systems of highest- and lowestimpact site visit schools and describes the critical importance of local leaders in establishing and maintaining these systems and positive, orderly environments.

The chapter also provides insights into barriers experienced by lowest-impact schools and relates this report's findings to state polices or programs designed to improve schools.

OEA conducted site visits to 8 highest- and 6 lowest-impact schools. Staff interviewed school administrators, teachers, and district administrators. Staff also reviewed school planning documents, staffing, and working conditions data.

#### **Chapter 3**

#### Site Visit Data And Conclusions

This chapter describes differences in the instructional systems of highest- and lowest-impact site visit schools. Site visit data are also used to provide context for data reported in Chapter 2, distinguishing highest- and lowest-impact schools statewide on metrics of culture and climate, student behavior, and teacher turnover. Consistent with existing research, many of the differences among highest- and lowest-impact schools can be explained in large part by the ability of local leaders to establish effective instructional and behavioral systems and to address personal and organizational challenges necessary to ensure system success.

As noted in Chapter 1, none of the practices of highest-impact schools that are reported in this chapter will be new to seasoned educators or policymakers. Further, all are represented in various forms of guidance and support provided by the Kentucky Department of Education for all schools in the commonwealth. The chapter may, however, provide insights into some of the barriers experienced by lowest-impact schools in putting these practices into place. The chapter ends by discussing relevance of the report's findings to state policies or programs designed to improve schools.

#### Site Visit Data

Data in this chapter are based on OEA site visits to 8 highestimpact and 6 lowest-impact schools, representing all school levels and geographic regions. Each site visit comprised interviews with school administrators, district administrators, and classroom observations of and interviews with at least four teachers in each school. <sup>a</sup> During site visits. OEA interviewed over 30 school administrators, over 50 district administrators, and over 50 teachers. Staff also reviewed school and district improvement plans, school staffing data, and working conditions survey data. Appendix A contains interview protocols used in site visits.

<sup>&</sup>lt;sup>a</sup> Teachers interviewed at each school included at least one veteran of 8 years of more, at least one teacher who had been at the school for 2 years or fewer, and at least one special education teacher. At the elementary level, teachers were 2<sup>nd</sup> and 5<sup>th</sup> grade teachers, and a teacher of science of social studies. At the middle school teachers included a 7<sup>th</sup> grade language arts teacher, an 8<sup>th</sup> grade math teacher, and a teacher of science of social studies. At the high school level teachers included English II, Geometry, and science or social studies.

Limitations. The broad differences between highest- and lowestimpact schools that are described in this chapter hide variation among teachers and grades in individual schools. OEA observed and interviewed many teachers in lowest-performing schools that exhibited characteristics similar to teachers in highest-performing schools. In addition, OEA staff used data from the 2022 and 2023 school years to compute impact categories whereas site visits occurred in the spring of the 2024 school year. The practices of lowest-impact schools that are reported in this chapter are based on staff reports of those that occurred during the 2022 and 2023 school years. In some schools, practices or school leadership had changed.

#### Instructional Systems

Table 3.1 describes components of instructional systems, in all highest-impact schools.<sup>b</sup> When district instructional materials or textbooks were in place, these systems were extensions of those materials. Instructional systems in highest-impact schools included teacher-developed or adjusted curriculum maps; teacher developed or adjusted classroom unit assessments; teacher/administrator team analysis of student work and data through professional learning communities (PLCs) or regular, informal review; systematic reteaching of skills by classroom teachers during specifically setaside times of the day or school week; additional pull-out support as necessary; and instructional monitoring, feedback, support, and accountability. As noted following the table, highest-impact schools varied considerably among each other in the particular way they carried out each component of these systems. OEA documented no single, replicable practice present in highestversus lowest impact schools.<sup>c</sup>

Related to practices described in Table 3.1, KDE provides extensive guidance to districts and schools to support active implementation of curriculum standards and assessment/remediation systems. A sample of these resources are guidance documents related to high quality instruction; effective

Components of instructional systems in highest-impact schools included teacherdeveloped or adjusted curriculum maps and classroom assessments; collective review of data and student work; systematic reteaching of skills; support for struggling students; and instructional monitoring, feedback, and support.

KDE provides extensive guidance to districts and schools to support active implementation of curriculum standards and assessment/remediation systems.

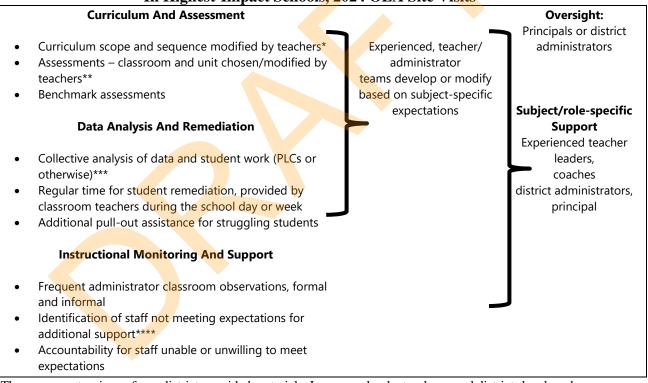
<sup>&</sup>lt;sup>b</sup> As one minor exception: one small, highest-impact high school had all components described in Table 3.1 except the collective review by experienced teacher teams. This school was too small to have subject-specific teacher teams and did not have regular PLCs. The principal reviewed all lesson plans and unit assessment data and regularly reviewed student work.

<sup>&</sup>lt;sup>c</sup> Teachers' scope and sequence documents or classroom assessments are often expansions of curriculum materials or textbooks provided by the district. While districts have the authority to determine curriculum, textbooks, and instructional materials, staff in many highest-impact schools took additional steps to clarify or extend district materials. In some cases, teachers worked directly with district teams to do this work.

leaders; teacher teams; data analysis; and multi-tiered systems of intervention and support. In addition, the department's implementation of SB9 of RS 2022, the "Read to Succeed Act" models all aspects of these instructional systems. It recommends high quality instructional materials and related assessments, provides subject-specific training for educators and administrators, encourages administrators to educate themselves about evidencebased reading practices, and establishes regional networks of teachers and administrators to support implementation.

### Table 3.1 Components Of Instructional Systems





\* These were extensions of any district-provided materials. In some schools, teachers used district-developed curriculum maps or those provided from purchased programs, but teachers met together to clarify expectations at the building level.

\*\*Classroom assessments may include bell ringers or exit slips or assignments. Both highest- and lowest impact schools used standardized interim assessments such as MAP or IXL, but teachers in highest-impact schools collected or discussed additional formal or informal data.

\*\*\*PLCs are professional learning communities comprised of teams that have regularly scheduled meetings to review components of instruction including curricula, assessments, data, and student work. PLCs may share strategies, innovate, problem solve, and otherwise and address instructional needs and challenges.

\*\*\*\*In some schools, expectations were defined against specifically articulated models. All but two of the six highestimpact site visit schools had some specific instructional components that were expected to be included in lessons. In some these involved ways of structuring lessons and introducing material; in others they were more general such as writing across the curriculum and listening to/explaining other students' thinking; students' and teachers' ability to articular and "unpack standards." In all schools, administrators and teacher teams attended to the rigor of classroom expectations and the degree to which assignments and student work reflected those expectations. Source: Staff analysis of site visit data.

#### Subject-specific Instructional Support

In highest-impact schools, subject-specific instructional support was provided in the context of specific expectations for curriculum standards and student learning. Examples of subject-specific expectations include teams of reading or mathematics teachers discussing learning standards; what type of classroom instruction is necessary to assist students in mastering those standards and what student classroom work that meets the expectations look like. In contrast, teachers in lowest-impact schools when asked about instructional expectations most often mentioned broad expectations such as "bell-to-bell instruction" or student engagement.

In highest-impact schools, new teachers or struggling teachers were paired with experienced teacher leaders or district subject experts who provided ongoing, on-site support to assist teachers in understanding instructional expectations and the subject-specific instructional methods that would assist students in meeting those expectations. Some highest-impact schools employed instructional coaches who also played this role.<sup>d</sup>

Teachers in highest-impact schools most often cited other teachers as the source of instruction-specific support. For example, a special education teacher in one highest-impact school explained that she relied heavily on the experienced teachers for content knowledge and specific techniques. The teacher summed up her interview by explaining,

> It's the staff. You have to have the horses to pull the buggy and you have it here. (The newer teachers) are not necessarily good at the beginning, but older teachers pull them along.

Principals play a critical role in identifying teacher leaders and mentors. As one principal in a highest-impact high school

<sup>&</sup>lt;sup>d</sup> OEA found little difference in the proportion (about half) of highest- and lowest-impact schools that employed instructional coaches but did find a difference in the function of instructional coaches. Instructional coaches in highest-impact schools were used to support school-wide instructional expectations whereas instructional coaches in lowest-impact schools appeared to assist teachers in a voluntary basis and reported difficulties influencing the practices of teachers who were unwilling to change. It was not possible for OEA to look for systematic differences in the employment of instructional coaches across all highest- and lowest-impact schools as OEA staff found that that instructional coaches in site visit schools were often incorrectly coded as classroom teachers in professional staff data (PSD).

explained, "within the departments we have teachers with individual strengths and we tap them to model their knowledge." One highest-impact middle school had teacher team leads for each grade. These teachers were paid a stipend to provide additional support to teachers and to ensure teacher team concerns were known to administrators.

In addition, teachers in highest-impact schools often noted subjectspecific support from principals, other school support staff, and district administrators. The principal in one highest-impact school assured a new teacher that, although students' reading levels had dropped during COVID, the students would be able to understand and eventually independently read grade-level texts and suggested appropriate supports. In another highest-impact school, an Option 6 math teacher was assisted frequently by a district math coordinator who provided instructional materials and math-specific teaching strategies. A special education teacher in another highestimpact school explained that the principal conducted observations with the instructional rubric in hand, to ensure that the special education students were being instructed at grade level.

#### Variation Among Highest-Impact Schools In Specific Practices But Common Commitment To Operate Collectively

The individual ways in which highest-impact schools carried out the components described in Table 3.1 varied greatly. Some schools had prescriptive schoolwide models of instruction and lesson planning while others permitted variation among instructional practices, focusing instead on collective analysis of student work to determining whether students were meeting curriculum standards. Some met regularly to analyze work in "professional learning communities" of teachers and administrators while others met informally with groups of teacher teams during planning periods.

Despite this variation, what all highest-impact schools had in common was the sense that teachers, administration, and students understood the common expectations and assumed collective accountability for the academic success of the school. As one teacher in a highest-impact school noted, "It's like night and day now from 17 years ago. It is now more like "our kids" for all students than just the ones in your classroom. It used to be that a teacher may only care about the students in the grade they teach. Now, there are core check-ins based upon how well the teachers know the children and the level of instruction has increased." This sense of collective purpose was often cited by teachers as a source

Specific practices varied among schools. Some schools had prescriptive schoolwide models of instruction while others permitted variation in practice and focused on outcomes.

In highest-impact schools, the teachers, administrators, and students embraced common expectations and took collective responsibility for the school's academic success. Districts with higher-impact schools played proactive roles in developing or maintaining instructional systems. District administrators ensured consistency across schools and provided a support system for new teachers and administrators.

Higher-impact districts provided system-wide direction for curriculum and instruction that went far beyond the purchase of textbooks or instructional materials.

Higher-impact districts embraced training opportunities through regional cooperatives; belonged to two or 3. of pride and an important component of their professional satisfaction as educators.

#### **Instructional Leadership In Higher-Impact Districts**

OEA visited four districts in which all schools were in higherimpact categories.<sup>e</sup> While specific practices and approaches varied among these districts, all played proactive roles in developing or maintaining instructional systems. Common characteristics included: longevity of district teams with decades of experience in district schools; presence of subject/program experts actively involved in monitoring data and classroom instruction; and frequent, onsite, subject or program-specific support by district administrators for school administrators or teachers. These experienced teams ensured consistency across district schools and provided a support system for new administrators or teachers, ensuring that effective school practices survived teacher and administrator turnover.

All of the higher-impact districts provided system-wide direction for curriculum instruction that went far beyond the purchase of textbooks or instructional material. As one superintendent explained, this made them a "school district rather than just a district of schools." Direction related to curriculum went far beyond the purchase of specific curricula or instructional materials. All four districts also promoted specific instructional practices districtwide. These varied by district and included specific ways of structuring lessons; incorporating writing across the curriculum; early literacy instruction and assessment; behavioral expectations and interventions; and instructional grouping and methods of classes that contained special education students.

All four districts regularly sent teams of administrators and teachers for training in regional cooperatives. Of the 4 districts, one was a member of two cooperatives and 2 were members of 3 cooperatives.

<sup>&</sup>lt;sup>e</sup> All of the schools were either in the highest or the high category.

No lowest-impact schools had complete instructional systems in place. Until recently, some had no systems in place.



#### **Incomplete Or Nonexistent Systems In Lowest-Impact Schools**

In some lowest-impact schools instructional systems had been nonexistent. in others, they were partially implemented.<sup>f</sup> Teachers and administrators in some lowest-impact schools acknowledged complete lack of instructional systems in previous years. For example, one middle school administrator reported that, "When I got here...there was extreme autonomy (among teachers in different parts of the school)...We needed to put in organizational basic structures. It was bizarre to me. I didn't understand how it was legal. They didn't put anything into IC or anything." An administrator in a CSI school that had just begun to implement systems noted that, prior to identification of the school as CSI, it received very little attention or oversight from the district. The principal reported that, despite the schools relatedly low performance, the district had "assumed" there were systems in place and "it was not thrown in your face that you have to improve...it is assumed that if you are not in crisis, you don't need support." The principal in this highest-poverty school was provided a mentor but the mentor did not visit the school or proactively check with the principal.

One experienced teacher who had recently transferred to a highestimpact school explained, "I came from a much smaller district. There is no set curriculum there. Teachers try to fit things in as best they could. They really don't use the (Kentucky Academic Standards) there. There's no reading curriculum in some of the lower grades. Here we have a reading and math curriculum. There's no guessing work. A brand new teacher has everything they need."

#### **Barriers To Implementation In Lowest-Impact Schools**

Missing most commonly from lowest-impact schools were building leaders who persevered in addressing instructional issues in individual classrooms and subject-specific instructional leaders (such as experienced, effective teachers or district administrators) capable of assisting less effective teachers to improve practice. <sup>g</sup>

<sup>&</sup>lt;sup>f</sup> OEA visited several schools with new principals who were attempting to build systems. In these cases, interviewees were asked to describe systems in place during the 2022 and 2023 school years.

<sup>&</sup>lt;sup>g</sup> Approximately equal proportions of highest- and lowest-impact site visit schools also had instructional coaches. Instructional coaches in highest-impact schools were active implementers of the school's instructional system whereas instructional coaches in lowest-impact schools appeared less able to influence instruction of teachers who were uninterested in assistance. OEA also found that most instructional coaches were coded as classroom teachers in staffing data.

In lowest-impact schools, systems may be implemented on a surface level and have limited impact on classroom instruction.

In highest-impact schools building leaders persisted in addressing teaching deficits and were uncompromising in insisting that expectations for instruction were met.

Many administrators in lowestimpact schools appeared to lack the expertise or will to address ineffective teaching.

Lowest-impact schools often have inconsistent expectations of classroom teachers and inconsistent classroom practices. **Inconsistent Administrator Expectations Of Educators.** OEA

asked a principal in one highest-impact school to explain why the districtwide instructional system was working so well in her school but did not appear to be having the same effect in another district school. The principal explained that systems can be implemented at a surface level but administrators may fail to implement all aspects of the system. She had formerly been a coach in the other school and noted that the principal did not monitor the systems; check that instructional expectations were implemented; or address shortcomings among staff. Thus, the system did not necessarily impact instruction within classrooms.

Teachers and administrators in all highest-impact schools were able to provide multiple examples of actions that were taken by building leaders to address teaching that did not meet expectations and, in many cases, consequences for teachers unwilling or unable to meet expectations. In the case of newer teachers, contracts were not renewed. In the case of veteran teachers, administrators maintained performance pressure until behavior changed. In one building, a cadre of veteran teachers voluntarily left the building or retired as they disagreed with the performance expectations.

In contrast, administrators in many lowest-impact schools appeared to lack the expertise or will to require specific instructional improvements of less effective teachers. Some administrators noted that they showed professional respect for teachers by deferring to them on subject matter instruction. Others noted difficulty influencing behavior of veteran teachers unwilling to change. For example, one explained, that "Some of the teachers are very head strong, so they can be difficult to coach. Once teachers are tenured, it is almost impossible to remove them. Some exhibit some issues with showing up to work, but they are not necessarily terrible teachers." In some cases, newer struggling teachers were advised but not required to seek assistance from experienced teachers.

Teachers in several lowest-impact schools specifically cited inconsistent expectations of classroom teachers as a key challenge in the school. OEA observed inconsistency in classroom practices in lowest-impact schools. In some classrooms, teaching and classroom environments were similar to those observed in highestimpact schools but in most lowest-impact school, OEA observed at

Due to inconsistent coding practices, it is not possible to analyze differences among highest- and lowest-impact schools statewide in the presence of instructional coaches.

least one classroom in which one third or more of students were inattentive, disengaged, or disruptive. In one case, OEA observed students misusing Chromebooks, chatting, or with their heads on their desks, even in the presence of the principal who had accompanied staff in the observation. A teacher who had recently transferred into a highest-impact school from a lower-performing schools explained, "there were different expectations among classrooms in my old school. What was expected of me in my math group was different than the other group. My old principal had picks. They had different expectations from them. It was a toxic work environment and I considered leaving teaching."

OEA noted few differences in the monitoring practices reported by administrators in highest- versus lowest-impact schools. Principals in both school types reported frequent informal monitoring of classrooms; regular "walk throughs" that used observational tools to record classroom practices and were independent of formal teacher evaluations; and teacher evaluations as required by regulation.

#### Lack Of Sufficient Subject-Specific Instructional Assistance

OEA visited several lowest-impact schools with very high percentage of new teachers, many of whom had entered through alternative routes. In some, administrators were making great efforts to address instructional needs of these new teachers. Still classroom observations and interviews indicated that these teachers required more instructional support than they were receiving, and were struggling even when implementing very structured district curricula. For example, OEA spoke with several teachers who explained that they adjusted the assessments provided through district programs because they believed the students were incapable of meeting the expectations. While newer teachers in highest-impact schools were shown by veteran teachers what students could do in math or reading with the proper support, teachers in lowest-impact schools lacked these leaders to show them what was possible.

Districts and schools with very high rates of administrator and teacher turnover face special challenges in building the subjectspecific instructional teams necessary to operate effective instructional systems. In some cases, local districts experienced challenges related to teacher and administrator retention that were difficult to overcome through efforts of school or district administrators alone. For example, one district had experienced a natural disaster that led to an exodus of staff and a shortage of

Monitoring practices reported by highest- and lowest-impact school administrators were similar.

Lowest-impact schools with high percentages of new or inexperienced teachers lacked sufficient numbers of experienced educators or other instructional leaders to provide subject-specific support to struggling teachers.

Districts and schools with high rates of administrator and teacher turnover have challenges building subjectspecific instructional teams to operate effective instructional systems. In some cases, these challenges may be difficult to overcome through efforts of school or district administrators alone. housing for newer teachers. In another rural district, teacher housing also presented a challenge. This district was within commuting distance of larger cities and was therefore able to recruit newer teachers. Administrators cited lack of locally available housing as one cause of the district's inability to retain these teachers who eventually transferred to other schools with shorter commutes.

Lack of Awareness That Change Is Needed. In some cases, local leaders may be unaware that students are performing academically below their potential, compared to schools with similar students. OEA visited one district that appeared slightly below average by actual scores, but was far below average when students were compared to similar students across the state. Administrators in this district explained limitations in academic achievement, in part, by students' lack of interest in college education. At the same time, the district administrators in this rural county described a sense of isolation and lack of exposure to practices that might raise expectations of staff and students. As the superintendent explained, "We also don't know what other districts are doing.... You become "County" good, but you don't know how good it is."

Lack of Political Will To Address Challenges. Site visit interviewees identified a number of situations in which leaders were aware of but did not address the need for instructional change because of reluctance to oppose powerful local interests. In some cases, ineffective principals were not removed due to personal connections with local leaders. In another, a superintendent felt pressured by the local board to appoint a principal that was popular in the community but lacked the skills necessary to be the instructional leader of a school.

**Unrealistic Timelines.** Principals in lowest-impact schools are often under great pressure to demonstrate immediate improvement in school performance and other metrics, such as turnover. Yet, data collected for this report suggests that meaningful and sustained change takes many years. Highest-impact schools visited for this report had been undergoing improvement efforts, led by building leaders or district administrative teams for at least seven years; most had experienced stable instructional leadership for over a decade.

One new principal noted that things might need to get worse before they got better. Although the school was already facing turnover challenges, additional turnover would be necessary to build an effective team. The principal noted, "I was told that I had to stop

Local leaders may be unaware that their students are performing below their potential compared to schools with similar students, and unaware of practices used in other districts.

Some education leaders reported instances in which pushing for instructional changes might generate opposition from powerful local interests.

Whereas meaningful and sustained change takes many years, some administrators in lowest-impact schools felt great pressure to demonstrate immediate improvements.

teacher turnover. Then I came here and I thought that there was no way. There are some people here who don't need to be teaching, they don't even like kids. In order to move this school forward, I HAVE TO HAVE TURNOVER. I am not going to get there in one year."

#### Benefit Of Assistance Teams From KDE's Office of Continuous Improvement And Support (OCIS)

OEA visited two schools in which instructional systems had recently been implemented as a result of assistance from an intervention and support team provided by KDE. In both cases, school and district administrators noted the widescale, positive changes that had been implemented on the recommendation of and with the support of the intervention team. These included coherent instructional programs in reading and math, instructional monitoring practices, and student intervention systems. The administrators noted that while no one would want to be labeled as failing, they were grateful for the support and wished the intervention teams could have assisted in the district for a longer period of time.

#### **Climate, Culture, And Student Behavior**

Site visit data indicated no systematic differences between specific programs or policies in highest- versus lowest-impact site visit schools. Rather schools were differentiated from each other in the degree to which they

- focused systematically on building positive relationships with students and families;
- consistently and repeatedly modeled and reinforced behavioral expectations; and
- addressed persistent behavior challenges and classroom disruptions.

While some of these actions were associated with specific programs, each school had their own approach that could not be attributed entirely to a specific, replicable program.

#### **Positive Behavioral Interventions And Supports**

The overwhelming majority of both highest- and lowest-impact schools reported following the Positive Behavioral Interventions And Supports (PBIS) model to promote positive school climate and student behavior. This system, for which KDE provides training and support, focuses on identifying and rewarding positive

Intervention and support from KDE benefited two schools visited by OEA.

Highest-impact schools focused systematically on building positive relationships; establishing behavioral expectations, and addressing persistent behavior challenges.

The Positive Behavioral Interventions And Supports (PBIS) model was followed by both highest- and lowestimpact schools. Benefits of PBIS were noted by most educators in highest- and lowest-impact schools. Some noted that the system does not sufficient address behavior of students who do no not respond to positive rewards.

Highest-impact school educators and administrators said focusing on positive relationships with students and families contributed to school success.

Highest-impact schools had common schoolwide activities to build bonds among teachers, students, and families. Legislative Research Commission Office Of Education Accountability

behaviors and preventing unwanted behaviors rather than responding to individual incidents. PBIS provides a system for establishing behavior expectations and ways of supporting students when behavior challenges occur.

Most educators noted benefits of PBIS in establishing a structure and motivating many students to seek positive rewards for good behavior. Educators in both highest- and lowest- impact schools also noted limitations of the system in addressing persistent behavior challenges. Teachers noted that the system could result in additional, positive attention and rewards for the most challenging students and did not sufficiently address behavior of students who did not respond to positive rewards.

#### **Building Positive Relationships With Families And Students**

When asked to identify characteristics that explained school success, educators and administrators in highest-impact schools consistently noted a schoolwide focus on positive relationships with students and families. <sup>h</sup> For example, the principal of one of the highest-poverty schools in the commonwealth and a school that served high percentages of EL students noted, that it is "very important to address the whole child especially in an urban environment. Teachers--all of them--love the students and students feel that. It's like a family. We develop bonds with the student and with each other. Because they feel comfortable, that allows them to learn, because their needs are being met."

Teachers and administrators in highest-impact schools generally reported spending high amounts of time and personal attention on building relationships with students understanding that, absent these relationships, student behavior and, ultimately, student performance, would suffer.

Schoolwide activities in highest-impact schools, designed to build bonds among teachers, students, and family included

- emphasis on extracurricular activities that involve all students and heavy encouragement of teachers to attend games and performances;
- principal or other administrator efforts to know and check in with every child and mobilize school resources, when necessary to meet their needs (in several schools, administrator interviews were delayed due to a steady

<sup>&</sup>lt;sup>h</sup> Educators and administrators in lowest-impact schools often noted commitment of individual teachers to helping students but, with the exception of one school, did not cite relationship building as an attribute of the entire school.

Highest-impact schools consistently reinforced school expectations to students through the year.

Both highest-impact site visit middle schools were committed to full implementation of the PBIS model.

Most highest-impact school teachers reported that, once behavioral expectations are established, students contribute to enforcing them.

High-impact school administrators took determined and proactive approaches to persistent student behavior challenges. stream of students walking in and out of the office to check in with the principal); and

• efforts to reach specific parent populations through parent clubs and employment of instructional aides with connections to specific communities.

#### Structure, Reinforcement, And Consistency

All highest-impact schools invested time in teaching and reteaching school expectations, both at the beginning and throughout the years. In one small high school, the principal conducted an individual, required entry meeting with each student, laying out behavioral expectations. In another elementary school, OEA observed staff repeatedly referring to the school mascot and associated behavior code in the hallways and classrooms. <sup>i</sup>

Both highest-impact site visit middle schools were committed to full implementation of the full PBIS model. Each held regular schoolwide meetings convening with students in person, highlighting positive behavior and providing reminders. Students were gathered for more structured meetings to reinforce rules after vacation breaks, long weekends, or any time principals felt that standards needed to be retaught. Some teachers in the school acknowledging occasional personal reluctance to follow all system components with fidelity due to the time and effort involved (for example, observing hall way duty and addressing even minor student violations of hallway protocols). These same teachers noted the necessity of consistent expectations, however, and the benefits to classroom environments and student learning.

Teachers in most highest-impact schools reported that, once the cultural foundation is laid, students actively participate in reminding other students about school codes of conduct. They noted that when students transfer to the school they quickly acclimate to expectations, even if they had experienced behavior challenges in other schools.

#### **Consequences For Persistent Behavior Challenges**

Administrators in highest-impact schools acknowledged that, despite the schools' efforts to build relationships, establish expectations, and provide supports, behavior challenges can persist and must be addressed. Teachers felt supported by administrators

<sup>&</sup>lt;sup>i</sup> This very strong behavior code did not exist in any written documents that teachers or administrators could locate, but appeared to have been passed down through generations of students and teachers who all seemed to know the rules.

in ensuring that classrooms would be protected from disruption through administrative action, when necessary. While methods of addressing the persistent behavior challenges varied, administrators in highest-impact schools understood their responsibilities to address challenges even in face of obstacles such as inadequate resources or resistance from parents, district administrators, or local boards.

Examples of administrators' determined and proactive approaches include:

- an elementary school principal who described the necessity of standing firm when parents became angered at school disciplinary actions
- a middle school principal who pursued a grant to add an additional administrator, post-COVID, solely to handle the increase in student behavior challenges when students returned to the classroom
- a high school principal who insisted, in the face of local board resistance, that the district's policy allowing expulsion for a certain drug-related offense be carried out
  - a middle school principal that insisted that a special education student be suspended for a dangerous action, despite the district's informal policy against it

#### **Issues Cited In Lowest-Impact Schools**

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In contrast to the examples cited above, lowest-impact schools lacked the schoolwide, coherent approaches to building relationships and consistently setting/reinforcing expectations.

The behavioral challenges most often cited by teachers in lowestimpact schools were not associated with the study body a whole, but with the disruptive influence of a small percentage of students who were consistently disengaged at best and disruptive at worst (teachers cited 4 or 5 percent). Teachers often credited principals for their attempts to improve discipline but noted that the efforts were not effective with a small percentage of students who they felt were not accountable for their actions and who could undermine the learning environment for an entire class. The principal in one lowest-impact elementary school noted an increase in the number of students with severe mental health challenges and the fact that several students in the school could "clear a classroom."

Lowest-impact schools lack schoolwide, coherent approaches to building relationships and consistently setting/reinforcing expectations. Behavioral challenges tended to be concentrated to a small percentage of consistently disruptive students.

Disciplinary actions towards special education students are challenging.

In one lowest-impact school, district administration was a barrier to addressing student behavior.

Some school administrators were frustrated with district discipline policies that restricted suspensions.

KDE reported to OEA that district administrators may be unaware of allowable disciplinary options.

#### Special Education Students With Persistent Behavior

**Challenges.** When asked to comment on why students were not held accountable, administrators or teachers in four site visit schools noted perceived restrictions on disciplinary actions that can be taken with special education students and school or district administrators' desire to reduce the amount of time that special education students are removed from regular classroom settings. Some noted that this reluctance stemmed from federal requirements for students with disabilities.

A special education teacher in a lowest-impact school specifically identified district administration as a barrier to addressing student behavior in the district. The teacher had left a lowest-performing middle school in the district because she feared for her physical and psychological safety. The teacher reported frequent verbal threats and regular physical assaults which, if not resulting in an injury, met with relatively little consequences for the students involved. She described a revolving door of students sent to and quickly back from the principal's office with a verbal reprimand. The teacher described desperate pleas to district administrators for assistance and reported that the assistance, when it came, was in the form of a visiting consultant who recommended that additional strategies be tried to promote positive behavior in the students who had been threatening or assaulting her. She reported that teachers in the middle school did not feel supported by district administration regarding student discipline and were afraid to share their honest feedback.

A school administrator in the same district reported difficulty addressing the most difficult behavior challenges due to the district's discipline policy and its rules related to suspensions. The administrator noted, that the school needs to ask for permission to take certain disciplinary actions and that its "Hands are tied in terms of suspensions. The families of students that witness or are victims of the behavior are concerned about what the school is doing." School staff do not feel that they can tell district leaders what they really think about discipline.

KDE staff have explained to OEA that district and school administrators may be unaware of the options allowable under federal law to discipline special education students. <sup>1</sup> Addressing the possible communication gap between teachers, school administrators, and district administrators is beyond the scope of this study. Several principals reported shortcomings in principal mentorships or district leadership training.

#### Need for Principal Mentors Experienced In Challenging

**Environments.** Several principals noted shortcomings of principal mentorships or district leadership training that did not address what they felt were situation-specific challenges in their buildings. This was especially true among principals who felt ill equipped to deal with culture, climate, and behavior challenges. As one principal in a lowest-impact middle school explained, the meeting with his assigned mentor "is just one more meeting. I wish I would have someone who has walked a mile in my shoes. I don't need someone who has been out of the classroom. I need someone who is a current principal and middle-school specific. At the district leadership meetings, I look at my phone and see that we just caught three kids with vapes. What are you going to do?"

#### **Teacher Turnover**

#### **Staff Recruitment And Retention**

Principals in highest-impact schools embraced their responsibilities to recruit and retain teachers, going beyond prescribed roles. As one principal explained, due to staff shortages, "you have to go the extra mile to show teachers that you care to get them to stay. Teachers are more like free agents in the NFL now." Recruiting stories from highest-impact schools included a principal who recruited a private school math teacher from her church, helping her clear a manageable path toward certification; a principal who volunteered to do mock interviews with local colleges, to identify and recruit the best of the graduating class of teachers; and a principal who enlisted accomplished teachers to recruit family or friends to come to the school as Option 6 teachers. One principal in a highest-impact school explained that, "Work ethic is most important. We have a small farm where you can pick blueberries. I met someone earlier at the farm and she was picking blueberries for others. You pick up on their work ethic when you see them in the community or are student teaching." The principal recruited the blueberry picker to be an instructional aide in the school.

Well-functioning, high-performing schools are desired destinations for teachers. In every highest-impact school, OEA interviewed teachers who had sought positions at the school, some from as long as an hour's drive away, because they admired the principal's leadership and the support of students and teachers. As benefits of the school, teachers cited positive relationships among staff; strong instructional support and feedback; pride in academic accomplishments of students; and the willingness of principals to support teachers through difficult times, in and out of the

Highest-impact school principals actively recruited and retained teachers.

Teachers seek positions at wellfunctioning, high-performing schools and note many benefits of working at such schools.

classroom. In some schools, teachers reported being unwilling to leave the school for any reason other than retirement or family circumstances, even if they could earn higher pay in another district. In some schools, multiple teachers stated that they would follow the principal to a new school if necessary. For example, one explained, "The principal is someone that we would follow into the fire. We would fight bears for her. We love her. She's right there with us. She supports us in everything we do... All my life I've been looking for this place. This is the place I wouldn't have fallen through the cracks. I'm so glad I'm here....Here each kid, the principal knows what each student may do and how to keep them on the right track. She knows about their lives. It's like we are part of something here."

Conversely, some teachers in highest-impact schools explained that they left other schools because of leaders who were unsupportive. For example, one middle school teacher reported being so discouraged in his previous school that he had decided to leave the profession and work at a local business, despite the fact that teaching had been a life-long dream. He struggled with classroom management yet received no support from the principal who, instead, blamed him for challenges in the classroom. Through chance the teacher was offered a job at highest-impact middle school where he received the instructional and behavioral support he needed and, within months, felt effective. The teacher reported that he was planning on staying in teaching and in his new school until retirement.

As described in this chapter, school leaders affect every aspect of school operations including instruction, culture and climate, and staff recruitment and retention. As one superintendent interviewed for this study noted—besides an effective teacher in every classroom, effective principals hold the most power to influence educational outcomes. The superintendent opined that he and his colleagues would be out of jobs if every school were run by highly effective principals.

#### Leadership Development And Support

During interviews, OEA staff asked school and district administrators what types of supports had influenced their leadership the most. No systematic differences existed between the sources mentioned by principals in highest- and lowest-impact schools.

School leaders affect every aspect of school operations, including instruction, culture and climate, and staff recruitment and retention.

Highest- and lowest-impact schools were similar in school and district leader supports.

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Administrators cited personal mentors as the most important source of leadership support.

Many also cited leadership training provided by KDE through the National Institute for School Leadership.

Lowest-impact schools experience a variety of barriers to productive teaching and learning environments.

Some school or district administrators may be unable or unwilling to address challenges. All of the over 80 administrators interviewed for the study cited personal mentors as their most important source of learning and support. Most often these mentors were principals or district administrators with whom they had worked closely.

Following personal mentors, the most often cited source of influence on leadership was National Institute for School Leadership training available through KDE's Office of Continuous Improvement And Support (OCIS). One highest-impact district reported sending all of its principals to NISL training .

OCIS has several education recovery staff trained as NISL facilitators and typically has two to three cohorts of training running each school year. In addition, OCIS provides Cognitive Coaching Training And Systems training to school leaders. Using federal funds, OCIS purchases materials and provides this leadership training free of charge to districts.

Other sources of training noted by administrators included a local chamber of commerce and a local foundation (Elgin); principal mentors available from the regional coop or the Kentucky Association of School Administrators; and KDE's P3 Principal Partnership Project, which provides personalized support and networking opportunities for principals.

#### **Relevance Of Findings To State Policies And Programs**

#### **Need For Additional Focus Or Support**

This chapter describes a variety of barriers to productive teaching and learning environments observed in six lowest-impact schools. Examples related to instruction include incomplete or nonexistent instructional systems; lack of subject-specific instructional support; and inconsistent accountability for classroom instruction. While statewide data on implementation of instructional systems are not available, decades of existing research suggest that schools with very low academic achievement likely lack fully functioning instructional systems.

Related to teacher working conditions, challenges in site visit schools included frustrations with disengaged or disruptive students or feelings of isolation and ineffectiveness in the face of student academic challenges.

In some cases, school or district administrators are aware of the challenges but lack the knowledge, skill, or confidence to address

These challenges are especially great in schools identified for Comprehensive School Improvement.

Comprehensive School Improvement Plans (CSIPs) and Comprehensive District Improvement Plans (CDIPs) are the primary mechanisms by which KDE supports and monitors improvement efforts of schools and districts.

KDE provides many forms of support to schools and districts, and use CSIPs and CDIPs to identify and support schools and districts in need.

Educators interviewed for this study cited shortcomings in current CSIP and CDIP requirements. challenges or investing necessary time and resources, necessary to address them. Chapter 2 demonstrates that challenges related to climate and culture, student behavior, and teacher turnover are widespread in

them. In other cases, local leaders may be aware of challenges but

unwilling to take the steps, such as addressing personnel

culture, student behavior, and teacher turnover are widespread in lowest-impact schools. As shown in Appendix K, these challenges are especially great in schools identified for Comprehensive School Improvement.

The section that follows discusses relevance of the report's findings to three areas:

- Comprehensive school and district planning
- Support for use of teacher working conditions survey data and
- KDE support for CSI schools

#### Comprehensive School And District Improvement Planning

Comprehensive School Improvement Plans (CSIPs) and Comprehensive District Improvement Plans (CDIPs) are the primary mechanisms by which KDE supports and monitors improvement efforts of districts and schools across the commonwealth. As noted earlier in this chapter, all of the characteristics of highest-impact schools that are identified in this report align with KDE-recommended practices.

KDE provides a wealth of resources in the form of guidance documents, best-practice videos, and consultants available for technical assistance in a range of subject areas, behavioral supports, and leadership standards and guides. In addition, through its work with various schools and districts and its operation of the annual Continuous Improvement Summit, staff are aware of a variety of resources across the state through educational cooperatives, best practice PBIS sites and "hub" schools. CSIPs and CDIPs provide a means by which KDE might use data to identify greatest needs schools and districts, connect them with relevant resources, offer support on recommended practices, and monitor progress.

For a variety of reasons described in this section, however, the school improvement process does not appear to be serving that function for many of the state's neediest schools. Barriers to effective use include the burden on KDE staff of reviewing plans CSIPs and CDIPs are not directly authorized in statute, but KRS 158.649 and KRS 160.346 are related to annual planning.

CSIPs and CDIPs are annually required plans per 703 KAR 5:225 that must be developed with the input of parents, faculty, and staff, and submitted to KDE.

Required elements of improvement plans are submitted at several points through the year and encompass a variety of information. in all schools; the lengthiness of plans due to the many required elements; and the lack of focus on critical building blocks of school success—teacher working conditions and teacher retention.

**Policy Requirements.** While there is no statute directly authorizing CSIPs and CDIPs, annual planning is referenced in KRS 158.649, which requires that schools develop annual plans to address achievement gaps, and KRS 160.346, which references annual plans in requirements for schools identified for federally-required intervention and assistance categories. In addition, some components of these plans are used to satisfy federal requirements including, but not limited to, Schoolwide Program Plans for schools operating Title I schoolwide programs.

CSIPs and CDIPS, as outlined in 703 KAR 5:225, are annually required plans that must be developed with the input of parents, faculty, and staff and submitted to KDE. Plans must be based on needs, as determined by data that include perception data of teaching and learning conditions. In addition, plans must include data analysis, priority needs and goals, objectives, strategies, and activities such as:

- a set of assurances related to compliance with federal and state school improvement requirements
- a process for annual review and revision by the school or district
- a plan for equitable education of English Learners
- other statutory or regulatory requirements related to achievement gap targets and turnaround plans for schools identified for improvement by federal regulations
- measures of organizational effectiveness including governance and leadership

703 KAR 5:225 (2)(1) states that the department shall "review and approve all submissions" and (2) "monitor implementation of each CDIP or CSIP and shall provide guidance upon information" which may include progress reports, data reviews, on-site observation, or other information provided by the district or school.

**Current Plan Requirements Exceed Regulatory Requirements.** KDE currently contracts with Cognia, a private vendor, to manage collection of required improvement plan elements. District and school staff submit electronic plans through Cognia software on

Improvement plans do not require data on teacher attraction and retention, working conditions, or leadership challenges. Exclusion of these elements may negatively impact improvement plans' success.

Challenges related to staff turnover or student misconduct receive relatively little attention in CSIPs and CDIPS. due dates at several points during the year. <sup>j</sup> The software requires schools to complete a variety of specific elements that, together, go beyond what is specifically required in regulation. Inputs are required for achievement gap strategy and all of the indicators on the state accountability system: math and reading; science, social studies and writing; English Learner Progress; School Climate And Safety and, for high schools, postsecondary readiness and graduation rates. For each indicator, plans must include specific elements related to goals, strategy, activities, measures of success; monitoring, and resources. The software also includes an open-ended "other" category in which districts and schools can insert additional data, goals, and improvement plans. Required plan elements alone may comprise over 50 inputs for high schools.

#### No Required Focus On Teacher Working Conditions,

**Recruitment, Retention.** As described above, the elements that are currently required do not include data on teacher attraction and retention, working conditions, or leadership challenges. Yet, as suggested by data in Chapter 2 and in site visits, these conditions may be critical building blocks of school success. When these elements are lacking, the instructionally-oriented improvement activities that comprise the majority of CSIPs may not be successful. KDE notes that CSIPs and CDIPs have an open-ended section that would allow schools or districts to include teacher working condition or retention data but that, "based on KDE's knowledge of and historical experience reviewing CDIPs and CSIPs, teacher turnover and working conditions are not typically addressed by schools or districts."<sup>2</sup>

OEA's review of CSIPs in site visit schools and CDIPs of districts in which they are located indicated that challenges related to staff turnover or student misconduct receive little or no attention. For example, in one lowest-impact middle school, none of the teachers answered favorably to the question asking how often student misconduct disrupts learning. Teacher interviews in the school indicated that student behavior challenges impacted teacher morale and absences and were causing substitutes to refuse to work in the building. Yet, related to behavior, the CSIP indicated only that the school would provide monthly lessons on social issues such as "making friends, bullying, study habits, being kind, character, etc." In another lowest-impact school, teacher turnover was very high

<sup>&</sup>lt;sup>j</sup> As reported by KDE staff to OEA, downloading plans to form a complete document is a time intensive process.

KDE provides guidance on improvement plans and reviews plans of schools identified for Comprehensive School Improvement and some schools identified for Targeted School Improvement using a rubric.

Most staff interviewed by OEA reported that CSIPs and CDIPs were cumbersome to implement and of limited impact to their school improvement efforts.

KDE staff acknowledged a "weak correlation" between school improvement plans and practices. Research conducted in Kentucky also noted weak relationships between plans and improvement. and had reached 34 percent in the district the previous year. Yet, neither the CSIP or the CDIP mentioned turnover challenges. <sup>k</sup>

KDE Support, Review And Feedback of CSIPs and CDIPs.

KDE staff provide guidance, through trainings or other means, on the general components of good plans. Due to reduced staffing in the Office of Continuous Improvement and Support compared to what has existed in the past, KDE reviews a small minority of plans each year. Reviews are conducted exclusively for schools identified in federal intervention categories described later in this chapter. These include plans of schools identified for Comprehensive School Improvement and a subset of schools identified for Targeted School Improvement, chosen with a risk assessment tool.

According to the KDE website, plans are reviewed using a rubric that rates the way the plans are constructed on factors such as identifying specific areas of weakness; citing precise numbers; identifying a manageable number of priorities; identifying precise actions to be taken; and timelines.

Plans Perceived As Cumbersome And Of Limited Impact, In **Themselves.** During site visit interviews, OEA asked staff to comment on the importance of current policy structures, including CSIPs and CDIPs, in assisting their efforts to improve teaching and learning. Few questioned the benefit or necessity of improvement planning generally. The overwhelming majority of interviewees noted, however, that the plans did not currently play a critical role in their school improvement efforts. They noted specifically that the volume of requirements promotes a compliance orientation to plan completion and that submission deadlines do not align with districts' and schools' actual planning activities. Aspects of the plans that might be addressed to make the process more useful and less cumbersome for staff included making the software interface more user friendly; revisiting the number and prescriptiveness of required components; and addressing discrepancies between submission deadlines for plans and times of the year when schools and districts engage in their own improvement planning.

KDE staff acknowledge a "weak correlation" between school improvement plans and school improvement practices. In some cases, lower-performing schools may have a great plan on paper but fail to implement it. In others, a skilled school leader may be making great improvements that are not documented in the school

<sup>&</sup>lt;sup>k</sup> The district's strategic plan stated that there would be a new teacher mentor program.

plan. Staff note that, because school districts are locally controlled, KDE staff have no authority to require schools or districts to take specific steps to implement plans.<sup>3</sup>

Research conducted in Kentucky has also noted weak relationships between plans and improvement. In 2005, a Prichard Committee study of successful higher-poverty schools in Kentucky noted no apparent relationship between the quality of school plans and school practices or outcomes.<sup>4</sup> OEA's analysis of CSIPs for its 2016 Achievement Gaps In Kentucky Schools study noted that many were not complying with the requirements of the statute and that, because of the many components required by regulation for inclusion in each plan, the plans were often lengthy and could be regarded by teachers and principals primarily as compliance documents.<sup>5</sup>

In addition, the current requirements of 703 KAR 5:225 that all schools submit annual plans and that KDE review and monitor all plans may set burdensome requirements for department staff that preclude more meaningful attention to a subset of highest-need schools. According to KDE staff, all of the elements currently included in CSIPs and CDIPs are statutorily required and the KBE does not have authority to minimize required elements.<sup>6</sup>

#### **Recommended Review Of CSIP and CDIP Requirements**

OEA believes that data collected for this report and in previous research warrant review of the CSIP and CDIP process and opportunities for input from a variety of stakeholders.<sup>1</sup> Based on additional input, the Kentucky Department of Education, the Kentucky Board of Education, and the General Assembly might consider changes to the CSIP and CDIP requirements and to KDE's role in monitoring these plans. These changes might include efforts to minimize paper work, align timing and structure of school plans with school and district planning needs, place greater attention on staffing and leadership issues, and identify schools and districts in greatest need of support or direction related to specific data points.

#### **Recommendation 3.1**

KDE should consider soliciting feedback from superintendents, principals and SBDMs about CSIP and CDIP requirements and processes. Feedback should include: positive effects of the process;

Requirements of 703 KAR 5:225 may be burdensome for some.

**Recommendation 3.1** 

<sup>&</sup>lt;sup>1</sup> Data collected for this report were limited to 14 schools and districts and are not necessarily representative of all schools and districts in the commonwealth.

which elements might be required annually and which on a rotating basis; timing of submissions; software functionality; desired feedback; and desired sources of support.

**Recommendation 3.2** 

#### **Recommendation 3.2**

By August 1, 2025, the Kentucky Board of Education should submit to the Interim Joint Committee on Education recommendations for any statutory changes or additional legislation that would allow for the department to carry out meaningful review, feedback, and monitoring of CSIPs or CDIPs in select districts or schools. Recommendations might include additional authority, if any, of the department to require schools or districts to take specific actions.

#### Lack Of Authorizing Statute

While several statutes reference annual plans, statute does not specifically authorize CSIPs and CDIPs as they apply to the annual plans currently required of districts and schools.<sup>m</sup> Based on feedback from the KDE and various education stakeholder groups, the General Assembly may wish to consider such legislation.

#### **Recommendation 3.3**

The General Assembly may wish to introduce legislation directing the Kentucky Department of Education to collect, review, and monitor school and district comprehensive plans. The legislation might address additional authority, if any, of the department to require districts or schools to take specific actions under certain conditions.

#### Working Conditions Survey

As noted in Chapter 2 and illustrated in this chapter, the working conditions survey provides data that can identify critical foundational gaps that are barriers to improvement in lowest-impact schools and to maximizing student outcomes in others. According to KDE, the survey is intended to prompt educators to reflect on previous progress and steps that should be taken to create the working conditions that educators deserve.

The chapter describes some instances in which school administrators appeared unaware of the serious nature of these

#### **Recommendation 3.3**

The working conditions survey provides data on barriers to improving or maximizing student outcomes.

<sup>&</sup>lt;sup>m</sup> Some elements of these plans fulfill federal requirements.

## Educators' response rates to the working conditions survey have declined recently.

The working conditions survey vendor provides data analysis support to districts and schools but does not provide topic specific guidance.

KDE provides a variety of guidance and training on topics covered in the working conditions survey.

Results of the working conditions survey are not currently used to encourage districts and schools to seek KDE guidance or to identify best practices schools or districts. gaps and others in which they were aware but seeking guidance on how to address the challenges.

**Declining Response Rates.** The percentage of educators responding to the working conditions survey has declined in the last two cycles of administration. In 2022, the response rate was 85 percent but dropped to 78 percent in 2024. In that year, data were not reported for 183, or 15 percent of schools because they did not meet the minimum response thresholds to be reported. <sup>n</sup> OEA did not collect data sufficient to explain declining response rates. It is possible, however, that declining response rates indicate declining confidence by educators that working conditions data will be used to improve conditions.

#### Limited Guidance And Support In Connection With Data

**Release.** Support to districts and schools following working conditions survey data release is provided by the vendor, Panorama, through webinars aimed at school and district administrators. These webinars advise administrators on use of data tools and general approaches to analyzing data. They do not provide topic specific guidance on issues that may emerge from the data, though vendor representatives provide contact information for follow-up questions

As stated earlier in this chapter, KDE provides a wealth of guidance on its website and through various trainings throughout the year that are relevant to topic areas covered in the working conditions survey. Technical assistance is available, upon request, from KDE consultants in academic, leadership, and behaviorrelated program areas. Further, KDE staff may be aware of resources of value to schools and districts in particular regions, such as training provided through local cooperatives or schools/districts with positive outcomes.

**KDE Role In Follow-up Support And Guidance.** It is possible that district and school leaders might take more active advantage of resources available through KDE and elsewhere in the state if they were specifically recommended in connection with data-identified challenges. KDE staff do not currently provide guidance or support to districts or schools that is specifically associated with release of working conditions survey data and survey data are not currently used to identify potential best practice schools or districts that might serve as models for schools struggling on particular indicators.<sup>7</sup>

<sup>&</sup>lt;sup>n</sup> Schools must have a minimum of 10 educators responding and 50 percent of teachers in order to be reported.

Schools may benefit from direction towards specific resources if data indicate a need for attention to in those areas. KDE might direct schools towards specific resources that may be helpful to schools or districts struggling to manage student behavior; provide meaningful feedback or coaching; addressing concerns about teacher well-being; or specific leadership challenges.

#### **Recommendation 3.4**

In connection with release of data from its working conditions survey, KDE should consider providing a list of resources and supports for schools seeking to understand and improve specific challenges identified by educators in survey data. Resources might include those available through the department, through the state's local educational cooperatives, best practice sites, professional organizations, or vendors.

Working Conditions Survey Data Not Appropriate As Sole Indicators Of Working Conditions Or Leadership Quality. OEA agrees with KDE staff that, despite the fact that these data indicate critical needs in some schools, they are not valid as sole sources of data about working conditions or school leadership and should not be required components of administrator evaluations or comprehensive planning. Use of survey data for high stakes decisions would likely lead to unintended consequences such as decreases in response rates or the degree to which educators feel comfortable sharing their views.<sup>o</sup>

#### Intervention And Assistance For Low-Performing Schools

Currently, requirements for intervention and support in Kentucky's lowest-performing schools are provided entirely by the federal

Recommendation 3.4

The working conditions survey would not be appropriate as a required component of administrator evaluations or comprehensive planning.

Requirements and funding for intervention and support in Kentucky's lowest-performing schools are provided entirely by the federal government through the Every Student Succeeds Act (ESSA) of 2015.

<sup>°</sup> For a variety of reasons, working conditions are not valid or reliable as a sole indicator of particular leaders' actions related to positive or negative working conditions in a school or district. For example, previous OEA studies have documented some educators' reluctance to indicate unfavorable opinions, even when anonymity is assured. In some cases, unfavorable responses may reflect educators' discontent over which leaders at particular levels do not have total influence. For example, principals can be constrained by district requirements or practices and, in some cases, district practices may be constrained by local school boards. In the course of this and previous study, OEA has heard examples of these constraints as relevant to student behavior, school resources, or teacher overload. In addition, in some schools, educators' less favorable responses may reflect discontent with leadership efforts that would not necessarily be viewed as negative in other schools. Finally, differences in response patterns among elementary, middle and high school educators should be taken into account when interpreting data as high school educators are generally less favorable in survey responses.

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government through the Every Student Succeeds Act (ESSA) of 2015. In the past, state funds have also been allocated to assist low-performing schools. <sup>p8</sup> According to a 2022 analysis by the Education Commission of the States, at least 39 states include improvement categories beyond those required by ESSA. <sup>q9</sup>

ESSA requires state departments of education to allocate resources to schools identified for intervention, as described below, and to provide guidance in the use of these resources to support evidencebased interventions. ESSA gives states flexibility in methods used to identify schools and distribute available resources but requires that districts are given flexibility to choose interventions most appropriate for their schools.

KRS 160.346 guides implementation of ESSA in the commonwealth. The statute identifies two main categories for assistance and support:

- **Comprehensive School Improvement (CSI)** which includes schools in the lowest-performing 5 percent of all schools, by level; high schools with graduation rates less than 80 percent; and schools that fail to exist targeted school improvement
- **Targeted School Improvement (TSI)** include schools that have one or more student subgroups that is performing at or below any of the lowest-performing 5 percent of schools, by level, for three consecutive years.

**Turnaround Vendor List.** KRS 160.346 requires local boards of education to choose a vendor to provide turnaround assistance to schools identified for CSI and to negotiate the terms and duration of the vendors' services. The statute also requires the Kentucky Board of Education to approve a "turnaround vendor list" of vendors with "documented success at providing turnaround diagnosis, training, and improved performance of organizations."

For the 2022-2023 school year, KDE received two completed vendor applications and approved both. In addition, districts were

<sup>q</sup> State policies related to these additional categories vary considerably. These can include additional funding opportunities and state technical assistance; additional state auditing and possible recommendation for alternative governance; and choice options available for students in designated schools.

KRS 160.346 guides implementation of ESSA in the commonwealth and identifies two main categories for assistance and support.

KRS 160.346 stipulates requirements regarding turnaround assistance vendors.

KDE reports that it will begin the process of selecting turnaround vendors in July of 2025. The KDE was the only vendor option chosen by districts in 2022.

<sup>&</sup>lt;sup>p</sup> See OEA's *Assistance to Low-Achieving Schools And Districts* report of 2010 for Kentucky-specific programs, such the Highly Skilled Educators, that were provided in the past.

permitted to select KDE as a turnaround vendor. None of the 49 schools identified for CSI in that year elected to work with the approved vendors, choosing instead to receive assistance from KDE's Office Of Continuous Improvement And Support. <sup>r 10</sup> According to KDE, it will begin the process of soliciting turnaround vendors in July of 2025 for the CSI schools that will be identified in that year. <sup>11</sup>

Given the specific challenges documented in this report related to climate, culture, student behavior, and staff turnover in CSI schools, the Kentucky Board of Education should endeavor to include on the approved vendor list, at least one vendor, in addition to KDE, with a successful track record assisting schools with such challenges. <sup>s12</sup>

#### **Recommendation 3.5**

In assembling the list of vendors required by KRS 160.346 (1)(a), the Kentucky Board of Education should seek vendors with experience assisting districts to support schools with sustained challenges related to staff turnover; school climate and culture; and student behavior.

**Distribution Of Funds.** Each year, KDE is awarded substantial funding for school improvement through Title I(A) funds. Of this amount, 95 percent must be distributed to districts to support school improvement activities chosen by the district. <sup>t</sup>

KRS 160.346 (9) states that "The department shall annually disburse funds to a school district, for a maximum of three (3) years, to assist with funding the turnaround vendor costs incurred by the district under subsection (8) of this section. The Kentucky Board of Education shall promulgate administrative regulations on

<sup>t</sup> Title 1(A) funding designated for the 2023 school year amounted to approximately \$19 million.

The Kentucky Board of Education should endeavor to include on the approved vendor list at least one vendor, in addition to KDE, with a successful track record assisting schools with characteristics similar to CSI schools.

**Recommendation 3.5** 

KDE distributes substantial amounts of federal funding to districts to support school improvement.

KRS 160.346 requires the Kentucky Board of Education to promulgate administrative regulations on how the disbursement amounts shall be determined.

<sup>&</sup>lt;sup>r</sup> The two approved vendors were The Central Kentucky Educational Cooperative School Improvement And Turnaround Project and the University of Virginia Partnership for Leaders in Education.

<sup>&</sup>lt;sup>s</sup> It may not be easy to identify vendors with a successful track record related to improving student performance in CSI schools. A 2020 review of 67 studies analyzing effects of state intervention in low-performing schools found that turnaround effects in schools with a majority of Hispanic students were more successful than those in schools with a majority of White or a majority of Black students. Overall, the study found moderate positive effects in math but no effect on English/language arts scores.

how the disbursement amounts shall be determined, which shall be based on the department's past practice for determining allocations for school improvement."

KDE staff cited language in 703 KAR 5:280 as meeting this statutory requirement. <sup>13</sup> The regulation states that "A school, including a charter school, identified for comprehensive support and improvement shall be eligible to apply for funding under 20 U.S.C. 6303. Any funds awarded to a school pursuant to 20 U.S.C 6303 shall be utilized to pay for turnaround activities, which may include assisting with funding an LEA's utilization of a non-department vendor from the approved turnaround vendor list published pursuant to KRS 160.346(1)(a)." <sup>u14</sup>

The associated regulation does If it v not offer specific details on how disbursement amounts are determined.

If it was the intent of the General Assembly that the associated regulation provide specific details on how the disbursement amounts shall be determined, it should be aware that the current regulation does not offer these details.

 <sup>1</sup> Gretta Hylton, Associate Commissioner, Office of Special Education and Early Learning, Kentucky Department of Education. Interview. Aug. 28, 2024.
 <sup>2</sup> Todd Allen. "Re: Potential CSIP/CDIP data request for OEA higher/lower impact schools study." E-mail to Deborah Nelson. May 11, 2024.

<sup>3</sup> Kelly Foster, Associate Commissioner, Office of Continuous Improvement and Support, Kentucky Department of Education. Interview. Feb. 26, 2024.

<sup>5</sup> Commonwealth Of Kentucky. Office of Education Accountability. *Overview Of Achievement Gaps In Kentucky Schools.* Legislative Research Commission, 2016.

<sup>6</sup> Kelly Foster, Associate Commissioner, Office of Continuous Improvement and Support, Kentucky Department of Education. Interview. Aug. 28, 2024.

<sup>7</sup> Byron Darnell, Associate Commissioner, Kentucky Department of Education Office of Licensure And Effectiveness. Interview. Aug. 28, 2024.

<sup>8</sup> Commonwealth of Kentucky. Office of Education Accountability. *Assistance To Low-Achieving Schools And Districts: Strengths, Limitations, And Continuing Challenges.* Frankfort, KY: Legislative Research Commission,

2010.

<sup>9</sup> Carlos Jamieson et.al. "50-State Comparison: States' School Improvement Policies." Education Commission of the States. Sept., 2022.

<sup>10</sup> Robin Kinney. "KDE Annual Report re Turnaround Vendor Status." Letter to Senator West and Representative Tipton. Nov. 22, 2023.

<sup>&</sup>lt;sup>u</sup> In addition KDE noted that 20 U.S.C. 6303 provides that KDE may utilize federal school improvement funds "*with the approval of the local educational agency*, [to] directly provide for these activities or arrange for their provision through other entities such as school support teams, educational service agencies, or nonprofit or for-profit external providers with expertise in using evidence-based strategies to improve student achievement, instruction, and schools[.]

<sup>11</sup> Kelly Foster, Associate Commissioner, Office of Continuous Improvement and Support, Kentucky Department of Education. "Re: two quick questions re KRS 160.346 & key dates for OEA School Impact Report" E-mail to Deborah Nelson, Oct. 11, 2024.

<sup>12</sup> Beth Schueler et al. "Improving Low-Performing Schools: A Meta-Analysis of Impact Evaluation Studies." Working paper. Annenberg Institute At Brown University. Aug., 2020.

<sup>13</sup> Kelly Foster, Associate Commissioner, Office of Continuous Improvement and Support, Kentucky Department of Education. "Re: two quick questions re KRS 160.346 & key dates for OEA School Impact Report" E-mail to Deborah Nelson, Oct. 11, 2024.

<sup>14</sup> Todd Allen. "RE: OEA Draft Impact Report for Informal Comment." E-mail to Deborah Nelson Oct. 28, 2024.

### Appendix A

### Site Visit Data Collection

Site visit schools were chosen to represent every school level and region and to include a mix of school sizes, locales (urban and rural) and demographic characteristics. Each site visit included interviews with school administrators; district administrators; and at least four teachers. In addition, staff reviewed school improvement documents and staffing data and conducted informal observations in four classrooms.

Following are interview protocols used during site visits.

#### **Teacher Interview**

#### **Overall Strengths And Challenges**

1. What are the greatest strengths of this school related to teaching and learning?

2. What are the greatest challenges faced by the school?

#### Curriculum

3. What determines the content of the curriculum you teach each week?

#### Instruction

4. Are you expected to follow particular instructional model(s) in your teaching?

5. Are there any other schoolwide expectations for teachers related to the quality of instruction? Otherwise?

#### Data

6. What sources of data (formal or informal) do you use to monitor student learning in your classroom?

#### PD/Feedback And Coaching

7. In what ways do receive feedback, coaching, or other instructional support?

- 8. What types of professional development are typical on professional development days?
- 9. Which models of professional development do you find most effective?

#### Additional Academic Support For Students

10. What type of additional support is available for your students who struggle to master academic content?

- in your classroom
- during the school day, outside your classroom
- outside of the regular school day/year

11. What practices are in place to support students who are ready to move beyond required academic content?

#### **Teacher Working Conditions**

12. How would you characterize teacher working conditions in this school?

- Positive qualities
- Challenges

#### Student behavior and engagement

13. What school strategies are successful at promoting positive student behavior? Engagement?

14. To what degree does student behavior present a challenge to you as a classroom teacher? Engagement?

#### Resources

15. Is teaching and learning in your school negatively affected by lack of resources?

16. Are teacher working conditions or morale negatively affected by lack of resources?

17. Are there any other areas that are negatively affected by lack of resources?

#### **State Policies**

18. How important are each of the following in assisting you to improve teaching and learning?

- Comprehensive School Improvement Planning (CSIP)
- Teacher Evaluations
- Professional development requirements
- SBDM
- If relevant: intervention and assistance (CSI, TSI)
- Other

#### **School Administrators Interview**

#### **Overall Strengths And Challenges**

- 1. What are the greatest strengths of this school related to teaching and learning?
- 2. What are the greatest challenges faced by the school?

#### Curriculum

3. What determines the content of the curriculum in each grade and subject?

#### Instruction

4. Has the school adopted particular models of instruction in reading or mathematics? Other subjects?

5. What do you look for in high quality instruction?

6. Please provide an overview of special education staffing and instructional models in your school.

- Pull out or resource
- Regular classroom
- Any additional time or resources provide for special education students

#### Data

7. What sources of data (formal or informal) do you use to monitor student learning in your school?

8. Which other sources of data inform your work as principal/instructional leaders?

#### Leadership Support

9. What have been your greatest sources of support or learning as a school leader?

10. How do you receive feedback on your role as principal?

#### **District Role**

11. Please describe the district role in supporting/improving the quality of teaching and learning in your school in the following areas:

- Curriculum
- Assessment
- Instructional support
- Student behavior, engagement

#### PD/Feedback And Coaching

12. Which school staff are designated to provide coaching or other instructional support to teachers?

13. What types of professional development are typical on professional development days?

14. Which models of professional development do you find most effective?

#### Additional Academic Support For Students

15. What practices are in place to support students struggling to master academic content?

- in the regular classroom
- during the school day, outside the regular classroom
- outside of the regular school day/year

16. What practices are in place to support students who are ready to move beyond required academic content?

#### Student behavior and engagement

17. What strategies at the school are successful at promoting positive student behavior?

18. What practices at the school are successful at engaging students?

#### **Teacher Working Conditions**

19. How would you characterize teacher working conditions?

- Positive qualities
- Challenges

#### **Teacher Recruitment and Retention**

20. Compared with other schools, does your school have any advantages in its ability to recruit and retain teachers?

21. Are there challenges related to recruiting and retaining teachers that are beyond your control? **State Policies** 

22. How important are each of the following in assisting you to improve teaching and learning?

- Comprehensive School Improvement Planning (CSIP)
- Teacher Evaluations
- Professional development requirements
- SBDM
- As relevant: federal intervention and assistance (CSI, TSI)
- Other?

#### **District Administrators Interview**

#### **Overall Strengths And Challenges**

- 1. What are the greatest strengths of this district related to teaching and learning?
- 2. What are the greatest challenges faced by the district?
- 3. What are the greatest strengths of the site visit school related to teaching and learning?
- 4. What are the greatest challenges faced by the site visit school?

#### Curriculum

5. Does the district play a role in determining the scope and sequence of academic content taught in each grade and subject?

in each grade and su

#### Instruction

6. Has the district adopted particular models of instruction in reading or mathematics? Other subjects?

7. What do you look for in high quality instruction?

8. Do you have district-wide policies or practices related to special education staffing and instructional models?

- Pull out or resource
- Regular classroom
- Any additional time or resources provide for special education students

#### Data

9. What sources of data (formal or informal) do you use to monitor student learning in your district?

10. Are there other sources of data inform your work as district leaders?

#### Leadership Support

11. What type of instructional leadership is important at the school level?

12. What type of training or support does the district provide to principals or other instructional leaders?

13. What sources of leadership training or support have you found most useful in developing your own skills?

#### PD/Feedback And Coaching

14. Which district staff are designated to provide coaching or other instructional support?

15. What types of professional development are typical on district professional development days?

16. Which models of professional development do you find most effective, generally?

17. What professional development resources outside the district do you use most?

#### **Teacher Working Conditions**

18. How would you characterize teacher working conditions in the district?

- Positive qualities
- Challenges

19. How would you characterize teacher working conditions at the site visit school?

- Positive qualities
- Challenges

#### **Additional Academic Support For Students**

20. Are there any district in place to support students struggling to master academic content?

• in the regular classroom

- during the school day, outside the regular classroom
- outside of the regular school day/year

21. Are there any district practices in place to support students who are ready to move beyond required academic content?

#### **State Policies**

22. How important are each of the following in assisting you to improve teaching and learning?

- Comprehensive District Improvement Planning (CDIP)
- Certified staff evaluation requirements
- Professional development requirements
- SBDMs
- Federal intervention and assistance (CSI, TSI)
- Other?

#### **Teacher Recruitment and Retention**

23. Compared with other districts, does your district have any advantages in its ability to attract and retain teachers?

24. Are there challenges related to attracting and retaining teachers that are beyond your control?

### Appendix B

#### **Statistical Methods Used To Determine District Effectiveness**

This appendix describes the ordinary least squares (OLS) linear regression model that staff used to calculate the impact scores reported in the report.

The OLS model was used to generate a predicted score for each tested student for each subject. The differences between the predicted scores and the actual scores for each student for each tested subject is the impact score for that student observation. The impact scores were aggregated to the school level to determine overall impact scores for schools.

This appendix continues with a more detailed description of the OLS model used for this analysis.

#### Ordinary Least Squares Linear Regression Models Reading And Math Model

Ordinary Least Squares (OLS) regression modeling was used to quantify the relationship between student, community, and school characteristics with the academic performance of students across multiple subjects. The models were structured with the standard scores for each academic area by grade and year as the dependent variable.<sup>a</sup>

The students included in the OLS model were 3<sup>rd</sup> through 8<sup>th</sup> grade and 10<sup>th</sup> grade students with KSA reading and math scores, students with KSA science scores for 4<sup>th</sup>, 7<sup>th</sup>, and 11<sup>th</sup> grades, students with social studies and writing KSA scores for 5<sup>th</sup>, 8<sup>th</sup>, and 11<sup>th</sup> grades, and 11<sup>th</sup> grade students with ACT composite scores for school years 2022 and 2023. Scores for each tested subject were treated as separate observations for all students in the data.

A model with all tested students for each school level (elementary, middle, and high schools) was conducted using the school level distinctions used by KDE for accountability reporting.

The model controlled for student-level subgroup categories for race and ethnicity, gender, eligibility for free or reduced-price lunch, participation in an individualized education program (IEP), students with limited English proficiency (LEP), and whether a student was homeless. These student-level characteristics are represented in the equations for the model as (βDEMO).

The model also controlled for whether a student attended a school that had 75 percent or more of its population receiving free or reduced-price lunch as an indicator for attending a "high poverty" school ( $\beta$ SchoolPoverty).

The final student-level control used was whether a student moved schools during the school years 2022 and/or 2023 ( $\beta$ Moved).

<sup>&</sup>lt;sup>a</sup> Standard scores were computed for each subject, grade, and year independently. For instance, standard scores for 3<sup>rd</sup> grade KPREP reading were computed at the student level for school years 2022 and 2023. The same was computed for 3<sup>rd</sup> grade KPREP mathematics, and then repeated for all grades, subjects, and years.

The model also included a community characteristic control for the percentage of residents that had earned a bachelor's degree or more by zip code ( $\beta$ BachelorZip). The bachelor's degree data by zip code was obtained from the American Community Survey, and was matched up to the zip code of student residence for each observation.<sup>b</sup> The residual error term finishes the equation ( $\epsilon$ ). The full equation is represented by Model 1.

#### Model 1: Standard Score = $\alpha + \beta DEMO + \beta SchoolPoverty + \beta Moved + \beta BachelorZip + \varepsilon$

#### **Computed Beta Coefficients And Explained Variance**

Table A.1 shows the beta coefficients and standard errors for the model by school level. Each of the school level models had R-squared values greater than 16 percent. The middle school model had the highest R-squared at nearly 20 percent. The R-squared value represents the percentage of variance explained by the model.

Nearly all the control variables in each version of the model have strong statistical significance, with the exception being the gender variable in the elementary school model.<sup>c</sup>

Most of the control variables have negative coefficients, which means those factors according to the model were associated with lower reading and math scores relative to other students. LEP status and IEP status were the strongest negative predictors from the student demographic controls.

The percentage bachelor's degree by zip code and other race were associated with higher scores relative to other students according to the model. The beta coefficient for percentage bachelor's degree by zip code indicates that for every 1 percent increase in the percent of the population with bachelors' degrees, the expected scores for reading and math would increase by approximately 0.007 standard deviations. For example, if a particular zip code had 50 percent of its residents with bachelor's degrees, that would be associated with an expected increase in reading and math scores by more than a third of one standard deviation.

The other control variables are categorical and not continuous like the percent bachelor's degree variable. Therefore, the coefficients are only applied to students that are in the populations of controlled variables in the model. For example, a middle school student with FRPL status would have a negative beta coefficient of -0.3748, but a student not eligible for FRPL would not have this coefficient applied when computing the expected scores.

Students can be in more than one control group, for instance a student could be eligible for FRPL and could have moved at least once during the observation period. In this instance the

<sup>&</sup>lt;sup>b</sup> If a student-level zip code was not available, a district-level percentage of residents that earned a bachelor's degree or more was used.

<sup>&</sup>lt;sup>c</sup> All but one of the control variables from the 3 school level models had t-statistics and p-values that indicate a confidence interval for the beta coefficients greater than 99 percent. The gender variable in the elementary school model was not statistically significant, but gender was statistically significant in the middle and high school models. Male students had negative coefficients for the middle and high school models.

coefficients for each of those variables would be applied to that student observation during the computation of expected scores.

Table B.1

Regression Output For All School Levels School Years 2022 And 2023											
	Elementar	y Model	Middle I	Model	High N	Iodel					
		Standard		Standard		Standard					
Controls	Coefficient	Error	<b>Coefficient</b>	Error	Coefficient	Error					
Black	-0.3674	0.0028	-0.3702	0.0026	-0.3138	0.0035					
Hispanic	-0.0291	0.0043	-0.0863	0.0037	-0.1188	0.0047					
Other race	0.2513	0.0055	0.2920	0.0056	0.2717	0.0067					
Male	0.001	0.0014	-0.0677	0.0020	-0.1559	0.0025					
IEP	-0.4919	0.0029	-0.6300	0.0028	-0.6193	0.0045					
LEP	-0.5860	0.0051	-0.7745	0.0056	-0.8081	0.0071					
Homeless	-0.1339	0.0061	-0.0664	0.0061	-0.1157	0.0079					
FRPL	-0.3594	0.0023	-0.3748	0.0022	-0.3197	0.0027					
School FRPL population - 75 percent or greater	-0.1275	0.0025	-0.1064	0.0026	-0.1477	0.0040					
Moved ever	-0.2620	0.0048	-0.3477	0.0039	-0.3706	0.0048					
Percent Bachelor's degree by zip code	0.0065	0.0001	0.0070	0.0001	0.0072	0.0001					
Intercept	0.2864		0.2874		0.2338						
R-squared	0. <mark>16</mark> 63		0.1975		0.1711						
Number of observations	823, <mark>47</mark> 6		848,235		543,436						

Note: The intercept ( $\alpha$ ) represents the control group mean for all included subjects for each model for the 2022 and 2023 school years. Beta coefficients have been rounded to the nearest ten-thousandth. FRPL= free or reduced-price lunch; IEP= individualized education program; LEP= limited English proficiency. All of the control variable for each model other than Male for the elementary school model had t-statistics and p-values that indicate a confidence interval for beta coefficients greater than 99 percent.

Source: Staff analysis conducted on data from the Kentucky Department of Education and The US Census Bureau.

### School Impact Categories, Standard Scores And Thresholds

As stated earlier in this appendix, school impact scores were computed by aggregating at the school level the difference between predicted scores and actual scores for each tested student for each subject. The impact categories for schools were determined by computing the standard scores of the school impact scores for each school level.

**Standard Scores.** The report groups schools into categories using a "standard score" that represent the data by units that can be compared across data sets. Standard scores take into account the difference of each data point from the mean, as well as the general distribution of data from the mean, as determined by the measure of standard deviation. Data that are more widely distributed have relatively higher standard deviations of units measured and data that are packed close together have lower standard deviations. A standard score of "0" is equal to the average and most measures fall between 0 and a standard score of positive or negative 1 standard score.

#### Categories

Following commonly used cut points, OEA considers data that are within 1/3 standard deviation of the mean as average, and data that are more than 1/3 standard deviation above or below the mean are considered high or low. <sup>1</sup> The report further divides high and low categories into highest or lowest; these categories are based on data that are 1 or more standard deviations above or below the mean. Because of differences in the way that different data sets are distributed in relation to the mean, different numbers of schools fall into each category, depending on the data set used.

#### Standard Scores And Thresholds On Additional Data Points

The same methodology used to determine the impact categories for schools was also applied to determine school level categories for the percentage of students eligible for free or reduced-price lunch and for average school level favorability on the working conditions survey. The tables below list the minimum and maximum values for school FRPL percent, working conditions survey average favorability, actual scores, and impact scores by category for each school level.

The eshous for Categories Used in The Report												
For Elementary Schools												
Category Of Metric	Range of Metric	School FRPL Percent	Working Conditions Favorability Percent	Standard Score Actual	Impact Residual							
Highest	Min	82	77	0.358	0.270							
ingnest	Max	97	95	1.082	1.095							
High	Min	70	69	0.119	0.099							
Ingi	Max	82	77	0.353	0.268							
Average	Min	59	62	-0.114	-0.069							
Average	Max	70	69	0.117	0.097							
Low	Min	47	54	-0.353	-0.238							
LOW	Max	58	62	-0.119	-0.071							
Lowest	Min	4	30	-1.132	-0.813							
Lowest	Max	47	54	-0.36	-0.241							

 Table B.2

 Thresholds for Categories Used In The Report

 For Elementary Schools

Note: FRPL = Students eligible for free and reduced-price lunch. Source: Staff analysis of data from the Kentucky Department of Education.

For Middle Schools												
Category Of Metric	Range of Metric	School FRPL Percent	Working Conditions Favorability Percent	Standard Score Actual	Impact Residual							
Highest	Min	80	73	0.293	0.255							
Tingitest	Max	95	91	1.094	0.809							
High	Min	69	65	0.107	0.107							
Ingn	Max	79	73	0.288	0.246							
Average	Min	58	57	-0.090	-0.039							
Average	Max	69	65	0.098	0.100							
Low	Min	47	48	-0.283	-0.184							
Low	Max	58	56	-0.095	-0.041							
Lowest	Min	4	30	-0.813	-0.551							
Lowest	Max	47	48	-0.286	-0.186							

Table B.3Thresholds for Categories Used In The ReportFor Middle Schools

Note: FRPL = Students eligible for free and reduced-price lunch. Source: Staff analysis of data from the Kentucky Department of Education.

	Table B.4
Threshold	ls for Ca <mark>teg</mark> ories Used In The Report
	For High Schools

For High Schools											
Category Of Metric	Range of Metric	School FRPL Percent	Working Conditions Favorability Percent	Standard Score Actual	Impact Residual						
Highest	Min	73	67	0.246	0.196						
Tingnest	Max	95	90	1.012	0.636						
High	Min	62	60	0.079	0.076						
Ingn	Max	72	65	0.235	0.186						
Average	Min	52	52	-0.086	-0.039						
Average	Max	62	59	0.076	0.074						
Low	Min	42	44	-0.257	-0.154						
Low	Max	52	52	-0.093	-0.041						
Lowest	Min	9	28	-0.778	-0.443						
Lowest	Max	41	44	-0.258	-0.160						

Note: FRPL = Students eligible for free and reduced-price lunch.

<sup>&</sup>lt;sup>1</sup> Danielle Farrie and David Sciarra. "Making the Grade.: How Fair Is School Funding In Your State" Education Law Center, 2022 , p. 07.

### Appendix C

#### Actual And Impact Scores Of IEP And Non IEP Students

#### Unadjusted Academic Performance IEP Students Relative To Non-IEP Students

Kentucky districts range broadly in the percentage of students identified as eligible for special education. This variation may reflect naturally occurring differences among the student populations in each district. It may also reflect, in part, differences among districts in the standards or practices used to identify students for special education. Should these differences in identification practices exist, they could affect the scores of individual districts in the impact model.

An analysis comparing the aggregated standard scores for all tested subjects for non-IEP students relative to the standard scores for only IEP students revealed there were 61 elementary schools in which IEP students outperformed the non-IEP students. There were 17 Middle schools with higher performing IEP students relative to the other students, and 2 high schools.

#### **Residual Categories – All Students Relative To Only Non-IEP Students**

This analysis included the OLS regression models for all students, and the same model for only non-IEP students for all tested subjects. Standard scores for each student were computed by year, subject, and grade. Residuals for non-IEP students were aggregated by school, and placed into categories using the same methodology used for the Impact model containing all students. The standard scores for IEP students relative to non-IEP students were compared for each school.

The tables below show the counts of schools in the residual category for non-IEP students according to the categories for all students by school level.

There were 6 elementary schools from the highest Impact category that were in the average category when IEP students were removed from the analysis. There were also 2 elementary schools in the high Impact category for all schools that were in the lowest residual category for schools when IEP students were excluded from the model. At the middle school and high school levels there was 1 school in the highest Impact category that were in the low category when IEP students are excluded from the analysis.

This source of the discrepancy in the impact scores of IEP students and non IEP students in some schools is not clear. The data suggest the need for greater attention to possible reasons for discrepancy. Reasons could include broad variation among schools in the way that students are identified as eligible for special education and could also include variation in the way that special education testing accommodations are carried out. Several previous OEA reports have noted these unusual variations among districts and schools.

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I	In Residual Categories Without IEP Students										
For Schools Grouped By Impact Categories For All Students											
Elementary		Residual Category - No IEP Students									
Residual											
Category –											
All											
Students	Highest	High	Average	Low	Lowest	Total					
Highest	85	8	6			99					
High	18	92	17	2	2	131					
Average		32	148	14	3	197					
Low			36	133	9	178					
Lowest				12	85	97					
Total	103	132	207	161	99	702					

#### Table C.1 Count Of Elementary Schools In Residual Categories Without IEP Students For Schools Grouped By Impact Categories For All Students

Source: Staff analysis conducted on data from the Kentucky Department of Education.

#### Table C.2

#### Count Of Middle Schools In Residual Categories Without IEP Students For Schools Grouped By Impact Categories For All Students

Middle		Residual Category - No IEP Students								
Residual										
Category										
– All										
Students	Н	ighest	High	Average	Low	Lowest	Total			
Highest		40	5	1	1		47			
High		9	41	2			52			
Average			18	74	8		100			
Low				8	63		71			
Lowest					3	44	47			
Total		49	64	85	75	44	317			

Table C.3
Count Of High Schools
In Residual Categories Without IEP Students
For Schools Grouped By Impact Categories For All Students

High Schools	Residual Category - No IEP Students								
Residual Category – All Students	Highest	High	Average	Low	Lowest	Total			
Highest	27	1		1		29			
High	5	44	4			53			
Average		7	51	4		62			
Low			3	48	2	53			
Lowest				1	29	30			
Total	32	52	58	54	31	227			

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### **Appendix D**

#### **Demographic Differences Of Schools By Actual And Impact Categories**

Table D.1 provides an example of the demographic differences between schools grouped by actual and impact categories by showing the percentage of students eligible for free or reduced price lunch (FRPL) by school level.

At all 3 levels the FRPL percentages in the actual categories were highest in the lowestperforming schools, and were lowest in the highest-performing schools. This was not the trend for schools grouped by Impact categories. The proportion of FRPL students was more evenly distributed across categories when adjusting for student demographics and school characteristics.

	Table D.1Average Percentage Of FRPL PopulationActual And Impact By CategoryBy School Level											
	Elementary	(n=702)	Middle (r	1=317)	High (r	n=227)						
Category	FRPL Percent - Actual	FRPL Percent - Impact	ent FRPL Percent FRPL Percent - Percent		Percent -	FRPL Percent - Impact						
1- Highest	48	67	46	65	42	59						
2- High	55	59	61	62	52	55						
3- Average	66	63	62	62	56	59						
4- Low	71	67	71	66	63	57						
5- Lowest	82	68	75	62	74	56						
All Schools	64	64	63	63	57	57						

Source: Staff analysis of data from the Kentucky Department of Education.

For schools at all three levels there were much stronger trends when grouping the schools by Actual categories. After adjusting for the student demographics and school characteristics in the model these trends were greatly diminished, or in some cases eliminated.

Tables D.2-D.7 show the demographics for actual and impact categories for all three school levels.

## Table D.2Select School DemographicsFor Elementary SchoolsBy Actual Performance Category

Actual Category	School Count	IEP Percent	Black Percent	Hispanic Percent	Other Race Percent	Percent Moved	LEP Percent	FRPL Percent	Percent Bachelor's Degree
Highest	106	15	7	4	5	3	3	48	31
High	146	16	9	6	4	3	4	55	26
Average	197	18	10	6	2	4	4	66	20
Low	143	19	11	8	3	4	5	71	19
Lowest	110	17	39	16	4	6	18	82	21
All	702	17	14	8	3	4	6	64	23

Source: Staff analysis of data from the Kentucky Department of Education.

## Table D.3Select School DemographicsFor Elementary SchoolsBy Impact Category

Impact Category	School Count	IEP Perc <mark>ent</mark>	Black Percent	Hispanic Percent	Other Race Percent	Percent Moved	LEP Percent	FRPL Percent	Percent Bachelor's Degree
Highest	99	19	7	5	3	4	3	67	21
High	131	17	11	7	4	3	5	59	26
Average	197	16	14	8	4	4	7	63	23
Low	178	16	18	10	4	4	8	67	24
Lowest	97	17	20	8	2	5	6	68	21
All	702	17	14	8	3	4	6	64	23

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	Select School Demographics For Middle Schools By Actual Performance Category											
ActualSchoolIEPBlackHispanicOtherPercentLEPFRPLBachelor'sCategoryCountPercentPercentPercentPercentDegree												
Highest	48	11	8	5	5	4	2	46	32			
High	59	14	6	5	2	5	1	61	19			
Average	96	13	9	6	3	5	2	62	21			
Low	62	16	13	6	2	6	2	71	19			
Lowest	52	15	21	11	3	6	7	75	19			
All	317	14	11	6	3	5	3	63	21			

# Table D.4

Source: Staff analysis of data from the Kentucky Department of Education.

#### Table D.5 Select School Demographics For Middle Schools **By Impact Category**

Impact Category	School Count	IEP Percent	Black Percent	Hispanic Percent	Other Race Percent	Percent Moved	LEP Percent	FRPL Percent	Percent Bachelor's Degree
Highest	47	17	5	3	2	5	1	65	20
High	52	13	7	6	3	5	2	62	21
Average	100	13	13	7	3	5	3	62	22
Low	71	14	15	8	3	6	4	66	22
Lowest	47	14	13	7	3	5	3	62	22
All	317	14	11	6	3	5	3	63	21

Г

		1	By Act	tual Perfo	rmance C	ategory			
Actual Category	School Count	IEP Percent	Black Percent	Hispanic Percent	Other Race Percent	Percent M <mark>ove</mark> d	LEP Percent	FRPL Percent	Percent Bachelor's Degree
Highest	29	7	10	6	6	3	2	42	33
High	51	10	7	5	3	5	1	52	23
Average	71	10	10	6	3	5	2	56	21
Low	49	10	10	6	3	6	2	63	19
Lowest	27	11	31	12	4	6	9	74	19
All	227	10	12	7	3	5	3	57	22

#### Table D.6 Select School Demographics For High Schools By Actual Performance Category

Source: Staff analysis of data from the Kentucky Department of Education.

## Table D.7Select School DemographicsFor Middle SchoolsBy Impact Category

Impact Category	School Count	IEP Percent	Black Percent	Hispanic Percent	Other Race Percent	Percent Moved	LEP Percent	FRPL Percent	Percent Bachelor's Degree
Highest	29	11	8	5	3	4	1	59	23
High	53	9	10	5	4	6	2	55	22
Average	62	10	15	7	3	6	3	59	21
Low	53	9	12	8	3	4	3	57	23
Lowest	30	9	8	7	3	4	3	56	21
All High Schools	227	10	12	7	3	5	3	57	22

### Appendix E

### School Level Categorical Change From Actual To Impact

#### Summary

This appendix provides the data for school counts for schools in the Impact categories according to the Actual categories those schools were in before by school level.

There were 177 out of the 230 (77 percent of) elementary schools in the two higher Impact categories that were also in the two higher Actual categories. There were 197 schools out of the 275 (72 percent of) elementary schools in the two lower Impact categories that were also in the two lower Actual categories.

Elementary Schools by impact And Actual Categories											
		Actual Category									
Impact Category	Highest	High	Average	Low	Lowest	All Elementary					
Highest	65	22	12			99					
High	33	57	33	7	1	131					
Average	5	56	88	31	17	197					
Low	3	11	63	57	44	178					
Lowest			1	48	48	97					
All Elementary	106	146	197	143	110	702					

 Table E.1

 Elementary Schools By Impact And Actual Categories

There were more than 80 percent (80 out of 99) of middle schools in the two higher Impact categories that were also in the 2 higher Actual categories. Approximately 70 percent (83 out of 118) of middle schools in the two higher Impact categories were also in the two lower Actual categories.

		Actual Category									
Impact Category	Highest	High	Average	Low	Lowest	All Middle Schools					
Highest	28	13	5	1		47					
High	11	28	10	3		52					
Average	9	17	47	18	9	100					
Low		1	28	26	16	71					
Lowest			6	14	27	47					
All Middle Schools	48	59	96	62	52	317					

Table E.2
Middle Schools By Impact And Actual Categories

Source: Staff analysis conducted on data from the Kentucky Department of Education.

Approximately 74 percent of high schools in the two higher Impact categories were also in the 2 higher Actual categories. Approximately 66 percent of high school in the two lower Impact categories were also in the two lower Actual categories.

High Schools By Impact And Actual Categories											
		Actual Category									
Impa <mark>ct C</mark> ategory	Highest	Highest High Average Low Lowest School									
Highest	15	9	5			29					
High	13	24	10	4	2	53					
Average	1	14	30	8	9	62					
Low		4	22	21	6	53					
Lowest			4	16	10	30					
All High Schools	29	51	71	49	27	227					

Table E.3

#### **CSI Schools By Actual And Impact Categories**

The following tables show the school counts for CSI schools and all other schools by level for both undjusted and Impact categories.

## Table E.4CSI Elementary School CountsRelative To Other Elementary SchoolsBy Actual Performance Category

		Actual Category								
School Type	Highest	High	Average	Low	Lowest	Total				
CSI School				1	32	33				
All Other Elementary	106	146	197	142	78	669				
Total Elementary Schools	106	146	197	143	110	702				

Source: Staff analysis conducted on data from the Kentucky Department of Education.

## Table E.5CSI Elementary School CountsRelative To Other Elementary SchoolsBy Impact Performance Category

	Impact Category								
School Type	Highest	High	Average	Low	Lowest	Total			
CSI School			2	12	19	33			
All Other Elementary	99	131	195	166	78	669			
Total Elementary Schools	99	131	197	178	97	702			

Source: Staff analysis conducted on data from the Kentucky Department of Education.

## Table E.6CSI Middle School CountsRelative To Other Middle SchoolsBy Actual Performance Category

		Actual Category								
School Type	Highest	High	Average	Low	Lowest	Total				
CSI School				1	11	12				
All Other Middle Schools	48	59	96	61	41	305				
Total Middle Schools	48	59	96	62	52	317				

Table E.7
CSI Middle School Counts
<b>Relative To Other Middle Schools</b>
<b>By Impact Performance Category</b>

	Impact Category								
School Type	Highest	High	Average	Low	Lowest	Total			
CSI School			1	6	5	12			
All Other Middle Schools	47	52	99	65	42	305			
Total Middle Schools	47	52	100	71	47	317			

Source: Staff analysis conducted on data from the Kentucky Department of Education.

## Table E.8CSI High School CountsRelative To Other High SchoolsBy Actual Performance Category

		Actual Category									
School Type	Highe <mark>st</mark>	High	Average	Low	Lowest	Total					
CSI School					6	6					
All Other High Schools	29	51	71	49	21	221					
Total High Schools	29	51	71	49	27	227					

Source: Staff analysis conducted on data from the Kentucky Department of Education.

## Table E.9CSI High School CountsRelative To Other High SchoolsBy Impact Performance Category

	Impact Category								
School Type	Highest	High	Average	Low	Lowest	Total			
CSI School			4	1	1	6			
All Other High Schools	29	53	58	52	29	221			
Total High Schools	29	53	62	53	30	227			

### Appendix F

### Table F.1Average Overall Favorable Responses2022 and 2024 Teacher Working Conditions SurveyBy Impact And School Level

Бу шира	By impact And School Level												
Residual Category	All	Elementary	Middle	High									
Highest	71.6%	74.0%	66.8%	61.2%									
High	65.3	68.9	61.1	59.0									
Average	62.3	64.9	<u>60</u> .2	55.5									
Low	59.2	62.4	56.0	51.2									
Lowest	57.5	60.3	54.5	51.6									
Total	62.5	65.7	58.9	55.2									
Difference Highest and Lowest	14.2	13.7	12.3	9.6									

								Difference
							Question	Highest and
Category	Question	Highest	High	Average	Low	Lowest	Avg.	Lowest
	When it comes to							
	promoting culturally							
	responsive practices, how							
	helpful are your							
Educating All	colleague's' ideas for							
Students	improving your practice?	65	58	58	55	53	57	12
	How often do teachers							
Educating All	use assessment data to							
Students	inform their instruction?	95	91	91	88	85	90	10
	How knowledgeable are							
	you regarding where to							
	find resources for							
	working with students							
Educating All	who have unique							
Students	learning needs?	75	71	68	66	65	68	10
	When a sensitive issue of							
	diversity arises in class,							
	how easily can you think							
Educating All	of strategies to address							
Students	the situation?	58	54	53	51	50	53	8
	How often do adults at							
	your scho <mark>ol ha</mark> ve							
	important conversations							
	about sensitive issues of							
Educating All	diversity, even when they							
Students	might be uncomfortable?	39	36	36	34	32	35	7
	If students from different							
	backgrounds struggled							
	to get along in your							
	class, how comfortable							
Educating All	would you be			70		76	70	-
Students	intervening?	83	80	79	77	76	79	7
	How easy do you find							
	interacting with students							
	at your school who are							
Educating All	from different cultural							
Educating All	background than your	00	00	06	OF	0 /	06	E
Students	own?	89	88	86	85	84	86	5
	How comfortable would							
	you be having a student who could not							
	communicate well with							
	anyone in class because							
Educating All	his/her home language							
Students	was unique?	54	53	52	51	50	52	4
Students	In response to events	J4		52			52	4
	that might be occurring							
	in the world, how							
	comfortable would you							
	be having conversations							
Educating All	about race with your							
Students	students?	65	63	62	60	62	62	3
Students	staucius.	55	55	52	50	52	52	5

### Table F.2Average Favorable Responses By QuestionFor Adjusted Performance Categories

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		1				1	1	
	How easy would it be for							
	you to teach a class with							
	groups of students from							
Educating All	very different religions							
Students	from each other?	78	78	77	75	75	77	3
	How comfortable would							
	you be incorporating							
	new material about							
	people from different							
Educating All	backgrounds into your							
Students	curriculum?	82	81	81	80	80	81	2
Students	How concerned are you	02	01	01	00	00	01	2
	about the emotional							
	well-being of your							
Emotional	colleagues as a result of							
Well-being	their work?	43	35	30	26	26	31	17
Emotional	How effective do you feel							
Well-being	at your job right now?	76	69	66	61	59	66	17
	How concerned are you							
	about your own							
Emotional	emotional well-being as							
Well-being	a result of your work?	50	44	39	37	36	40	14
iten senig	Overall, how much do				5.			
Emotional	you feel like you belong							
		81	76	74	70	70	74	11
Well-being	at your school?	01	70	74	70	70	74	11
	How much do you learn							
Feedback	from the teacher							
and	evaluation processes at							
Coaching	your school?	62	<b>5</b> 0	48	44	44	49	18
Feedback	How muc <mark>h fee</mark> dback do							
and	you receive on your							
Coaching	teaching?	65	54	52	47	48	52	17
Feedback	How often do you							
and	receive feedback on your							
Coaching	teaching?	70	60	57	53	53	58	17
	At your school, how							
	thorough is the feedback							
Feedback	you receive in covering							
and	all aspects of your role as							
Coaching	a teacher?	72	63	60	55	55	60	17
<b>J</b>		12	05	00		55	00	17
Feedback	How useful do you find							
and	the feedback you receive		<i>.</i>			50	60	4-
Coaching	on your teaching?	73	64	63	59	58	62	15
	How often does student							
Managing	misconduct disrupt the							
Student	learning environment at							
Behavior	your school?	50	42	33	28	26	34	24
Managing	How respectful are the							
Student	relationships between							
Behavior	teachers and students?	83	77	72	66	62	72	21
	How effective are the	İ						
	school leaders at							
Managing	developing rules for							
Student	students that facilitate							
Behavior		74	68	62	59	55	63	19
DELIGVIOI	their learning?	/4	00	62	59	55	05	19
	How well do school							
Managing	administrators support							
Student	teacher's classroom							
Behavior	management efforts?	77	71	67	63	60	67	17

	How effective do you	1			1			
Managing	think you are at							
Student	managing disruptive							
Behavior	classes?	85	81	78	75	71	78	14
Managing								
Student	Overall, how safe is the							
Behavior	school environment?	92	89	85	80	79	85	13
	At your school, how							
	valuable are the available							
	professional							
Professional	development							
Learning	opportunities?	60	52	49	46	45	50	15
	Through working at your							
	school, how many new							
Professional	teaching strategies have							
Learning	you learned?	77	72	69	65	63	69	15
	How relevant have your							
	professional							
	development							
	opportunities been to							
Professional	the content that you	60	50	50	47	16	50	
Learning	teach?	60	53	50	47	46	50	14
	Overall, how much do							
Professional	you learn about teaching							
	from the leaders at your school?	67	57	56	52	53	56	14
Learning		07	57	00	52	55	00	14
	How often do your							
	professional development							
Professional	opportunities help you							
Learning	explore new ideas?	58	52	49	45	44	49	13
Learning	Overall, how supportive	50	JZ	45	45	44	49	15
	has the school been of							
Professional	your growth as a							
Learning	teacher?	82	76	74	70	69	73	13
Loanning	How helpful are your	01						
Professional	colleagues ideas for							
Learning	improving your teaching?	80	74	72	69	68	72	12
	How much input do you							
	have into individualizing							
	your own professional							
Professional	development							
Learning	opportunities?	56	53	49	47	45	49	11
	Overall, how much does							
	your school struggle due							
Resources	to a lack of resources?	73	65	58	53	49	59	24
	To what extent does the							
1	quality of the resources							
1	at your school need to							
Resources	improve?	60	49	45	42	38	46	22
	How many more							
1	resources do you need to							
	adequately support your							
Resources	student's learning?	70	63	58	54	51	59	19
	When students need							
	help from an adult, how							
	often do they have to	70	<i>.</i>	50		50	60	10
Resources	wait to get help?	72	64	59	56	53	60	19
	To what extent does the access to instructional	70	62	59	55	54	59	16
Resources				54		5/1		Ib

r	· · · · · ·				1			
	technology, including							
	computers, printers,							
	software and internet							
	access at your school							
	need to improve?							
	For students who need							
	extra support, how							
	difficult is it for them to							
	get the support they							
Resources	need?	80	76	72	68	65	72	15
Resources		00	70	12	00	05	12	15
	How often do your							
_	school's facilities need							
Resources	repairs?	48	40	38	35	33	38	15
	How urgently does your							
	school's technology need							
Resources	to be updated?	73	67	64	61	61	65	12
	At your school, how							
	crowded do the learning							
Resources	spaces feel?	58	50	49	45	46	49	12
Resources	How important is it for							16
	your school to hire more	-						
	specialists to help	20	20	22	24	20	22	<u> </u>
Resources	students?	28	26	23	21	20	23	8
	How much of your own							
	money do you spend on							
Resources	your classroom?	20	19	16	15	16	17	4
	How supportive are							
	students in their							
School	interactions with each							
Climate	other?	75	67	61	55	49	60	26
Climate	On most days, how	15	01	01	55		00	20
	enthusiastic are the							
School	students about being at	70	60	5.0	50	16	50	22
Climate	school?	70	60	56	52	46	56	23
	How often do you see							
	students helpi <mark>ng e</mark> ach							
School	other without b <mark>ein</mark> g							
Climate	prompted?	81	74	69	64	59	69	21
	How respectful are the							
School	relationships between							
Climate	teachers and students?	83	77	72	66	62	72	21
	How positive are the		.,			JL JL	, _	<u> </u>
School	attitudes of your							
		64	<b>F7</b>	52	47	47	52	17
Climate	colleagues?	64	57	52	47	47	53	17
	Overall, how positive is							
School	the working environment							
Climate	at your school?	73	66	62	56	56	62	17
	When new initiatives to							
	improve teaching are							
	presented at your school,							
School	how supportive are your							
Climate	colleagues?	69	60	56	52	52	57	17
Cirriate			00		52	52	51	. /
Calvard	How optimistic are you							
School	that your school will	70	70		63		60	4-
Climate	improve in the future?	78	72	68	63	63	68	15
	To what extent are							
	teachers trusted to teach							
School	in the way they think is							
Climate	best?	79	75	70	66	64	70	15
P			•	•		•		•

		1	1	1			r	
	How effective are the							
	school leaders at							
	developing rules for							
School	students that facilitate							
Leadership	their learning?	74	68	62	59	55	63	19
	How knowledgeable are							
	your school leaders							
School	about what is going on in							
Leadership	teachers' classrooms?	74	66	63	59	57	63	17
	How effectively do							
	school leaders							
School	communicate important							
Leadership	information to teachers?	74	68	64	61	58	64	16
	When the school makes						-	
	important decisions, how							
School	much input do teachers							
Leadership	have?	59	53	51	46	44	50	16
Leadership	How responsive are	55	33	51	40	44	50	10
Calcal						·		
School	school leaders to your	70		62	50	50	62	14
Leadership	feedback?	72	66	62	59	58	63	14
	How clearly do your							
School	school leaders identify							
Leadership	their goals for teachers?	82	76	73	69	69	73	13
	Overall, how positive is							
	the influence of the							
School	school leaders on the							
Leadership	quality of your teaching?	78	73	70	66	66	70	12
	For your school leaders,							
School	how important is teacher							
Leadership	satisfaction?	75	69	68	64	63	67	12
	How positive is the tone							
	that school leaders set							
School	for the culture of the							
Leadership	school?	79	75	72	69	69	72	11
Staff	How much trust exists	15	15	12	05	05	12	
Leadership	between school leaders							
		76	71	67	62	62	67	14
Relations	and faculty?	76	71	67	63	62	67	14
o. ((	At your school, how							
Staff	motivating do you find							
Leadership	working with the							
Relations	leadership team?	70	62	61	56	56	60	14
	When you face							
Staff	challenges at work, how							
Leadership	supportive are your							
Relations	school leaders?	80	76	74	71	69	73	10
Staff	How fairly does the							
Leadership	school leadership treat							
Relations	the faculty?	80	77	75	72	70	74	9
	How confident are you							
Staff	that your school leaders							
Leadership	have the best interests of							
		0 /	01	70	75	76	70	o
Relations	the school in mind?	84	81	79	75	76	79	8
Staff	How much do your							
Leadership	school leaders care about							_
Relations	you as an individual?	81	79	78	74	74	77	7
	When challenges arise in							
Staff	your personal life, how							
Leadership	understanding are your							
Relations	school leaders?	89	87	86	85	83	86	6

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Staff	How friendly are your							
Leadership	school leaders toward							
Relations	you?	87	85	83	81	81	83	6
Staff	How respectful are your							
Leadership	school leaders towards							
Relations	you?	88	86	85	83	83	85	5

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### Appendix G

#### **Teacher Exit Data**

These data were received from KDE in February 2024 and included a total of 226 responses entered between 7/20/23 and 2/20/24. KDE noted limitations in the data due to the low response rate and potentially unrepresentative sample. KDE also noted that it is difficult to enforce collection of survey data as districts have no authority over teachers that leave and the teachers may not leave forwarding information.

Table G.1 lists responses in order of greatest to least number of respondents that cited each condition as a major factor that prompted them to leave the district. Factors most often cited as major were work life balance, appreciation, compensation, leadership and workload. Safety, classroom management, parent teacher communication were least.

The table does not capture data of teachers who leave individual schools but remain within a district.



			Number of	Responde	nts		Percent Of Respondents	
		Played	Was somewhat	nespende	Was a		ncopon	
	Didn't factor in the	little factor in the	of a factor in the	Was a factor in the	major factor in the	Total	At least somewhat of a	Little or no
All Respondents	decision	decision	decision	decision	decision	Respondents	factor	factor
Work life Balance	64	18	29	21	67	199	59%	41%
Appreciation	83	18	23	13	56	193	48	52
Compensation	70	19	19	27	48	183	51	49
Leadership Style	85	16	23	16	47	187	46	54
Work Load	71	21	32	33	46	203	55	45
School Culture	69	26	30	26	44	195	51	49
Career Advancement	85	20	15	22	38	180	42	58
Trust	93	22	13	19	37	184	38	63
Retiring	66	1	3	6	28	104	36	64
Relocation	86	10	7	13	27	143	33	67
Politics	99	16	25	13	20	173	34	66
Autonomy	95	29	24	17	19	184	33	67
Collaboration	124	16	24	11	18	193	27	73
Resources	106	35	21	12	16	190	26	74
Mentorship	128	20	12	14	15	189	22	78
Safety Concerns	124	20	11	18	10	183	21	79
Classroom Management	100	27	23	20	8	178	29	71
Parent teacher communication	137	21	12	9	7	186	15	85

#### Table G.1 Factors Cited As Leaving A District Teacher Exit Survey 2023 Or Early 2024 School Years

Source: Staff analysis of KDE data.

### Appendix H

### School Level Expenditures Comparison By Unadjusted And Impact Categories

#### Summary

This section provides analysis on school-level expenditures from the 2022 and 2023 school years. The accompanying tables show the percent of total expenditures by school for the following categories: instructional services, instructional support, school administration support, and plant operations. Expenditures for food and transportation were not included in this analysis.

The tables also show expenditures for these categories per member for the 2022 and 2023 school years for schools grouped by unadjusted performance and for Impact categories.

On average schools at all 3 levels that were in the higher residual categories were above the average for instructional services, and schools in the lower residual categories were slightly below the average for this metric at each level.

There was a general trend of proportionally more expenditures used for instructional support and school administration support for lower performing schools at all 3 levels.

#### Expenditures Per Member 2022 and 2023

Slight trend at the elementary level shows that schools in the higher Impact categories spend less per student relative to the lower performing schools.

Middle schools in the highest Impact category spent the most per student for these 2 years, with slight variation for the schools in the other Impact categories.

High schools did not exhibit a trend across the Impact categories for this metric.

The following tables show the comparison of school-level expenditures by Unadjusted and Impact categories for all 3 school levels.

Office Of	Education	Accountability
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For The 2022 and 2023 School Years									
Unadjusted Category	School Count	Percent Instruction Services	Percent Instructional Support	Percent School Admin Support	Percent Plant Operations	Avg Expenditures Per Member			
Highest	106	0.78	0.08	0.07	0.07	9753			
High	146	0.77	0.09	0.07	0.07	9801			
Average	197	0.78	0.08	0.07	0.08	10207			
Low	143	0.77	0.08	0.08	0.07	10544			
Lowest	110	0.72	0.13	0.09	0.06	12697			
Elementary Schools	702	0.77	0.09	0.08	0.07	10513			

# Table H.1Elementary School ExpendituresBy Unadjusted Performance CategoryFor The 2022 and 2023 School Years

Source: Staff analysis of data provided by the Kentucky Department of Education.

# Table H.2Elementary School ExpendituresBy Impact Performance CategoryFor The 2022 and 2023 School Years

				Percent	_	_
		Percent	Percent	School	Percent	Avg
	School	Instruction	Instructional	Admin	Plant	Expenditures
Impact Category	Count	Services	Support	Support	Operations	Per Member
Highest	99	0.78	0.08	0.07	0.08	10366
High	131	0.77	0.08	0.07	0.07	10089
Average	197	0.77	0.09	0.07	0.07	10478
Low	178	0.76	0.09	0.08	0.07	10670
Lowest	97	0.75	0.10	0.08	0.07	11022
Elementary Schools	702	0.77	0.09	0.08	0.07	10513

Table H.3
Middle School Expenditures
By Unadjusted Performance Category
For The 2022 and 2023 School Years

Unadjusted Category	School Count	Percent Instruction Services	Percent Instructional Support	Percent School Admin Supp <mark>ort</mark>	Percent Plant Operations	Avg Expenditures Per Member
Highest	48	0.77	0.07	0.08	0.07	9289
High	59	0.77	0.07	0.08	0.08	9133
Average	96	0.77	0.07	0.08	0.08	9328
Low	62	0.76	0.07	0.09	0.08	9841
Lowest	52	0.72	0.09	0.10	0.08	10479
Middle Schools	317	0.76	0.07	0.09	0.08	9574

Source: Staff analysis of data provided by the Kentucky Department of Education.

# Table H.4Middle School ExpendituresBy Impact Performance CategoryFor The 2022 and 2023 School Years

		Percent	Percent	Percent School	Percent	Avg
Impact	School	Instruction	Instructional	Admin	Plant	Expenditures
Category	Count	Services	Support	Support	Operations	Per Member
Highest	47	0.77	0.07	0.08	0.08	10255
High	52	0.78	0.06	0.08	0.08	9459
Average	100	0.76	0.07	0.09	0.08	9437
Low	71	0.75	0.08	0.09	0.08	9379
Lowest	47	0.75	0.08	0.10	0.08	9604
Middle Schools	317	0.76	0.07	0.09	0.08	9574

	Table H.5			
High S	School Expend	ditures		
By Unadjust	ted Performai	ice Category	7	
For The 202	22 and 2023 S	chool Years		
		Percent		

Unadjusted Category	School Count	Percent Instruction Services	Percent Instructional Support	Percent School Admin Support	Percent Plant Operations	Avg Expenditures Per Member
Highest	29	0.79	0.07	0.07	0.06	9267
High	51	0.77	0.07	0.07	0.09	9260
Average	71	0.77	0.06	0.08	0.09	9190
Low	49	0.76	0.07	0.08	0.09	9514
Lowest	27	0.73	0.10	0.10	0.08	11931
High Schools	227	0.77	0.07	0.08	0.08	9613

Source: Staff analysis of data provided by the Kentucky Department of Education.

## Table H.6High School ExpendituresBy Impact Performance CategoryFor The 2022 and 2023 School Years

		Percent	Percent	Percent School	Percent	Avg
	School	Instruction	Instructional	Admin	Plant	Expenditures
Impact Category	Count	Services	Support	Support	Operations	Per Member
Highest	<mark>2</mark> 9	0.79	0.07	0.07	0.08	9813
High	53	0.77	0.06	0.08	0.09	9445
Average	<mark>62</mark>	0.76	0.07	0.08	0.08	10073
Low	53	0.76	0.07	0.08	0.08	9299
Lowest	30	0.74	0.08	0.09	0.09	9329
Grand Total	227	0.77	0.07	0.08	0.08	9613

#### Appendix I

#### **Staffing Metrics By School Level**

#### Summary

The following tables show select staffing metrics for schools grouped by Impact categories by school level. On average, teacher attrition and student-to-teacher ratios trend lower for the groups of schools that were in the higher Impact categories at all 3 school levels. Schools in the higher Impact categories also had principals with more years at their current school, but less administrators overall compared to the lower Impact category schools.

#### **Elementary Schools**

### Table I.1Select Staffing MetricsFor Elementary SchoolsGrouped By Impact Category

Impact Category	School Count	Teacher Attrition Percent	Student to Teacher FTE Ratio	Ratio Student/ Instruc- tional CSD	Teacher/ Admin Ratio - FTE	Student to Admin FTE Ratio	Principal Years At School	Super Years At District
Highest	99	14.8	14.1	37.4	19.2	271.7	6.5	6.6
High	131	15.5	14.5	47.5	19.1	276.2	6.0	5.2
Average	197	16.6	14.1	43.8	19.1	267.4	5.6	5.1
Low	178	17.7	14.1	47.7	19.1	266.6	5.6	5.3
Lowest	97	21.3	14.2	40.6	17.2	241.2	4.6	4.8
Total	702	17.1	14.2	44.1	18.8	265.8	5.6	5.4

#### Middle Schools

	Table I.2       Select Staffing Metrics       For Middle Schools										
Grouped By Impact Category         Grouped By Impact Category       Category       Category       Category       Category       FTE Ratio       Ratio       FTE       Category       Category       Principal       Super         Impact       School       Attrition       Teacher       Itional       Ratio -       Admin FTE       Years At       At         Category       Count       Percent       FTE Ratio       CSD       FTE       Ratio       School       District											
Highest	47	16.9	14.9	87.5	16.7	248.9	7.0	6.3			
High	52	16.1	15.3	105.2	15.8	243.2	5.9	6.0			
Average	100	21.1	15.2	111.0	15.1	226.5	4.7	5.0			
Low	71	20.4	15.5	102.4	15.5	236.3	4.4	4.5			
Lowest	47	24.0	15.8	131.9	14.0	219.1	3.0	5.6			
Total	317	19.9	15.3	107.6	15.4	233.7	4.9	5.3			

Source: Staff analysis conducted on data from the Kentucky Department of Education.

#### **High Schools**

Table I.3
Select Staffing Metrics
For High Schools
<b>Grouped By Impact Category</b>

Impact Category	School Count	Teacher Attrition Percent	Student to Teacher FTE Ratio	Ratio Student/ Instruc- tional CSD	Teacher/ Admin Ratio - FTE	Student to Admin FTE Ratio	Principal Years At School	Super Years At District
Highest	29	14.8	15.2	132.1	20.1	307.4	5.6	5.1
High	53	16.7	16.7	164.1	16.9	281.1	5.4	5.8
Average	62	17.7	16.2	135.8	14.9	242.3	4.0	5.2
Low	53	19.1	17.3	125.9	15.6	269.0	4.6	5.6
Lowest	30	17.9	17.6	174.6	15.1	264.1	3.5	5.1
Total	227	17.5	16.6	144.8	16.2	268.8	4.6	5.4

#### **Teacher Years Of Experience By Impact Category**

Average

Lowest

All Middle Schools

Low

Academic performance and teacher experience share a strong positive relationship when grouping schools by Impact category. At all 3 school levels, average teacher experience increases for schools as they reach higher Impact categories. Middle schools had the largest difference of average teacher experience between the highest and lowest Impact categories at 2.5 years on average. Middle schools also have the largest proportion of teachers with less than 1 year of experience overall.

Table I.4								
Teacher Average Years O <mark>f E</mark> xperi <mark>enc</mark> e								
And Proportion Of Teachers By Experience Level								
For Elementary Schools								
Grouped By Impact Category								

Impact Category	Teacher Years Of Experience	Percent Teachers Less Than 1 Year	Percent Teachers 1 To 5 Years	Percent Teachers 6 Years Or More
Highest	12.2	6.6	22.1	71.3
High	12.7	6.0	21.2	72.8
Average	11.8	6.8	22.7	70.5
Low	11.6	7.1	24.3	68.6
Lowest	10.5	8.6	28.8	62.7
All Elementary Schools	11.8	7.0	23.5	69.5

Source: Staff analysis conducted on data from the Kentucky Department of Education.

Table I.5Teacher Average Years Of ExperienceAndProportion Of Teachers By Experience LevelFor Middle SchoolsGrouped By Impact Category								
Teacher Years Of Experience	Percent Teachers Less Than 1 Year	Percent Teachers 1 To 5 Years	Percent Teachers 6 Years Or More					
12.1	7.0	23.6	69.3					
12.1	7.2	21.7	71.1					
	r Average Y ion Of Teacl For Midd ouped By In Teacher Years Of Experience 12.1	r Average Years Of Ex ion Of Teachers By Ex For Middle Schools ouped By Impact Cate Percent Teachers Years Of Experience 12.1 7.0	r Average Years Of Experience ion Of Teachers By Experience I For Middle Schools ouped By Impact Category Percent Teachers Less Percent Teachers Years Of Than 1 1 To 5 Experience Year Years 12.1 7.0 23.6					

11.1

10.8

9.6

11.1

Source: Staff analysis conducted on data from the Kentucky Department of Education.

9.3

7.6

10.8

8.5

24.4

27.9

33.2

25.9

66.3

64.4

56.0

65.6

Table I.6
Teacher Average Years Of Experience
And Proportion Of Teachers By Experience Level
For High Schools
Grouped By Impact Category

Grouped by Impact Category										
	Teacher	Percent Teachers Percent Less Teachers		Percent Teachers						
Impact Category	Years Of Experience	Than 1 Year	1 To 5 Years	6 Years Or More						
Highest	12.3	5.4	23.0	71.7						
High	12.4	6.3	23.5	70.2						
Average	11.8	6.6	24.4	69.0						
Low	11.5	9.2	24.2	66.6						
Lowest	10.7	8.5	30.3	61.2						
All High Schools	11.8	7.2	24.7	68.0						

#### Appendix J

#### **Impact Survey Results For Schools Grouped By Unadjusted Categories**

Table J.1 Impact Survey Categories Comparison By Unadjusted Categories For Elementary Schools								
	τ	Jnadjusted	l Category - ]	Elementar	'y		Difference	
Category	Highest	High	Average	Low	Lowest	Category Avg.	Highest And Lowest	
School Climate	0.787	0.743	0.696	0.666	0.552	0.693	0.235	
Managing Student Behavior	0.769	0.737	0.709	0.668	0.557	0.694	0.212	
School Leadership	0.748	0.714	0.695	0.677	0.582	0.687	0.167	
Emotional Well-being	0.608	0.569	0.549	0.518	0.443	0.541	0.165	
Resources	0.571	0.521	0.504	0.463	0.431	0.499	0.141	
Feedback and Coaching	0.664	0.615	0.621	0.580	0.523	0.604	0.140	
Staff/Leadership Relationships	0.825	0.802	0.779	0.785	0.693	0.780	0.132	
Professional Learning	0.677	0.651	0.634	0.608	0.560	0.628	0.116	
Educating All Students Category	0.712	0.696	0.682	0.678	0.711	0.693	0.001	
Overall Impact Avg	0.707	0.672	0.652	0.627	0.561	0.647	0.145	

Source: Staff analysis of data provided by the Kentucky Department of Education.

# Table J.2Impact Survey Categories ComparisonBy Unadjusted CategoriesFor Middle Schools

	-								
Unadjusted Category - Middle									
Category	Highest	High	Average	Low	Lowest	Category Avg.	Difference Highest And Lowest		
Managing Student Behavior	0.708	0.695	0.635	0.597	0.469	0.628	0.240		
School Climate	0.637	0.635	0.587	0.558	0.414	0.574	0.224		
Emotional Well-being	0.568	0.555	0.523	0.503	0.418	0.518	0.149		
Resources	0.545	0.518	0.489	0.470	0.398	0.487	0.148		
School Leadership	0.662	0.684	0.656	0.655	0.517	0.642	0.145		
Professional Learning	0.594	0.619	0.576	0.579	0.459	0.570	0.135		
Staff/Leadership Relationships	0.771	0.790	0.777	0.769	0.665	0.761	0.106		
Feedback and Coaching	0.558	0.610	0.559	0.578	0.465	0.558	0.094		
Educating All Students Category	0.676	0.668	0.666	0.676	0.620	0.663	0.056		
Overall Impact Avg	0.636	0.642	0.608	0.598	0.492	0.600	0.144		

Feedback and Coaching

Overall Impact Avg

Educating All Students Category

#### Office Of Education Accountability

0.400

0.652

0.472

0.451

0.622

0.539

0.037

0.003

0.101

Impact Survey Categories Comparison By Unadjusted Categories For High Schools							
	U	nadjusted	Category - H	ligh Schoo	ols		
Category Category Highest High Average Low Lowest Avg.							
Managing Student Behavior	0.640	0.645	0.597	0.564	0.441	0.588	0.198
School Climate	0.571	0.535	0.498	0.465	0.399	0.497	0.172
Resources	0.521	0.521	0.464	0.458	0.366	0.471	0.156
Emotional Well-being	0.522	0.523	0.484	0.459	0.412	0.484	0.110
Professional Learning	0.517	0.503	0.481	0.461	0.429	0.480	0.088
School Leadership	0.566	0.589	0.563	0.529	0.494	0.554	0.073
Staff/Leadership Relationships	0.725	0.729	0.718	0.688	0.655	0.707	0.070

### Table J.3

Source: Staff analysis of data provided by the Kentucky Department of Education.

0.437

0.655

0.573

Table J.4								
Overall Impact Survey Average								
By S	chool Level							
Overall								
	Overall	Impact	Overall					
	Impact Avg.	Avg.	Impact Avg.					
Unadjusted Category	Elementary	Middle	High Schools					
Highest	0.707	0.636	0.573					
High	0.672	0.642	0.572					
Average	0.652	0.608	0.542					
Low	0.627	0.598	0.518					
Lowest	0.561	0.492	0.472					
Total	0.647	0.600	0.539					
Difference Highest And Lowest	0.145	0.144	0.101					

#### т. і. і. т. 4

0.487

0.621

0.572

0.457

0.615

0.542

0.442

0.601

0.518

Table J.5
Average Teacher Turnover Percent
For Schools Grouped By Unadjusted
Performance
By School Level
Average Teacher Turnover Percent

Unadjusted Category	Elementary	Middle	High Schools
Highest	15	17	13
High	15	17	16
Average	16	19	18
Low	17	22	19
Lowest	23	25	20
All	17	20	17

#### Appendix K

#### Comparison Of CSI And TSI Schools In 2022 Or 2023 To All Others By Level

#### Elementary

#### Table K.1

#### Teacher Attrition, Percent Of Teachers With 5 Or Fewer Years, Principal Tenure, FRPL Percent, Percent Of Students That Moved Schools, And LEP Percent For Elementary Schools Grouped By CSI, TSI, And All Other Schools

	School	Teacher	Percent Of Teachers 5 Years Or	Principal Years At	FRPL	Percent Students That Moved	LEP
School Type	Count	Attrition	Fewer	School	Percent	Schools	Percent
CSI Elementary	33	26.3	<u>3</u> 9.3	5.4	85.8	7.3	14.1
TSI Elementary	156	19.2	32.4	5.4	71.2	4.9	13.1
All Other Elementary Schools	<mark>518</mark>	15.9	29.4	5.8	61.2	3.5	3.7
All Elementary Schools	70 <mark>2*</mark>	17.1	30.5	5.6	64.5	3.9	6.2

\*There were 5 elementary schools that were both CSI and TSI during the 2022 and/or the 2023 school years. Source: Staff analysis of data from the Kentucky Department of Education.

# Table K.2Percentage Of Elementary SchoolsIn The Highest And Lowest Teacher Attrition<br/>CategoriesCategoriesFor CSI, TSI, And All Other SchoolsPercent Of Percent Of<br/>SchoolsPercent Of Percent Of<br/>SchoolsHighest Lowest<br/>Teacher

School Type	Attrition	Attrition
CSI Elementary Schools	51.5	3.0
TSI Elementary Schools	23.1	8.3
All Other Elementary Schools	10.6	16.2
All Elementary Schools	15.0	14.0

\*There were 5 elementary schools that were both CSI and TSI during the 2022 and/or the 2023 school years.

#### **Middle Schools**

#### Table K.3 Teacher Attrition, Percent Of Teachers With 5 Or Fewer Years, Principal Tenure, FRPL Percent, Percent Of Students That Moved Schools, And LEP Percent For Middle Schools Grouped By CSL TSL And All Other Schools

	Grouped by CSI, 1SI, And An Other Schools									
		Percent								
			<b>Teachers 5</b>	<b>Principal</b>		Students				
	School	Teacher	Years Or	Years At	FRPL	<mark>Th</mark> at Moved	LEP			
School Type	Count	Attrition	Fewer	School	Percent	Schools	Percent			
CSI Middle Schools	12	23.9	37.1	2.3	79.8	6.8	12.7			
TSI Middle Schools	165	21.8	36.1	3.9	60.9	5.0	3.7			
All Other Middle Schools	143	17.5	32.2	6.3	64.6	5.4	0.6			
All Middle Schools	317*	19.9	34.4	4.9	63.2	5.3	2.6			

\*There were 3 middle schools that were CSI and TSI during the 2022 and/or 2023 school years. Source: Staff analysis of data from the Kentucky Department of Education.

# Table K.4 Percentage Of Middle Schools In The Highest And Lowest Teacher Attrition Categories

#### For CSI, TSI, And All Other Schools

School Type	Percent Of Schools Highest Teacher Attrition	Percent Of Schools Lowest Teacher Attrition	
CSI Middle Schools	25.0	0.0	
TSI Middle Schools	22.4	9.1	
All Other Middle Schools	9.8	21.7	
All Middle Schools	16.7	14.5	
*There were 3 middle schools	that were CSI and	TSI during the	

\*There were 3 middle schools that were CSI and TSI during the 2022 and/or 2023 school years.

#### **High Schools**

#### Table K.5 Teacher Attrition, Percent Of Teachers With 5 Or Fewer Years, Principal Tenure, FRPL Percent, Percent Of Students That Moved Schools, And LEP Percent For High Schools

Grouped By CSI, TSI, And All Other Schools									
Percent Of Percent									
			<b>Teachers 5</b>	Principal		Students			
	School	Teacher	Years Or	Years At	FRPL	T <mark>ha</mark> t Moved	LEP		
School Type	Count	Attrition	Fewer	School	Percent	Schools	Percent		
CSI High Schools	6	22.0	34.6	2.8	82.3	8.3	18.5		
TSI High Schools	83	17.4	<u>30.8</u>	4.5	56.7	5.5	4.8		
All Other High Schools	142	17.5	32.7	4.7	56.6	4.5	0.9		
All High Schools	227	17.5	32.0	4.6	56.9	4.9	2.5		

\*There were 3 middle schools that were CSI and TSI during the 2022 and/or 2023 school years. Source: Staff analysis of data from the Kentucky Department of Education.

Table K.6							
Percentage Of High Schools							
In	In The Highest And Lowest Teacher Attrition						
Categories							
	For C <mark>SI,</mark> TSI, And All Other	Schools					
	Percent Of	Percent Of					

		Percent Of Schools Highest Teacher	Percent Of Schools Lowest Teacher
	School Type	Attrition	Attrition
	CSI High Schools	16.7	0.0
	TSI High Schools	12.0	9.6
	All Other High Schools	17.6	16.9
_	All High Schools	15.4	14.1

\*There were 3 middle schools that were CSI and TSI during the 2022 and/or 2023 school years.

#### **Comparison Of Working Conditions Survey Favorability For CSI And TSI Schools Relative To All Others By Level**

Tables K.7 - K.9 show favorability ratings by category, of teachers in CSI schools, TSI schools, and all other schools. Data for each group of schools is calculated from all of the teachers who responded to the survey in those schools.

Note that, overall, teacher response rates are much lower in CSI schools, especially in middle schools. <sup>a</sup> It is possible that the data reported in these tables reflect response bias from differences in the teachers who responded to the survey and those that did not. Student climate and safety survey data shown in Table K.10 provide an additional, representative source of data suggesting greater climate and safety challenges in CSI schools compared with all lowest-impact schools.

Average working Conditions Favorability Rates									
For CSI, TSI, And All Other Elementary Schools									
CSI TSI All Other All									
	Elementary	Elementary	Elementary	Elementary					
Category	Schools	Schools	Schools	Schools					
Educating All Students Category	68.9	69.6	69.2	69.3					
Emotional Well-being	40.2	47.4	56.9	54.1					
Feedback and Coaching	48.5	53.1	63.2	60.4					
Managing Student Behavior	47.1	62.3	72.7	69.4					
Professional Learning	53.4	57.1	65.1	62.8					
Resources	38.6	44.9	52.1	49.9					
School Climate	48.3	61.3	72.8	69.3					
School Leadership	54.4	61.7	71.6	68.7					
Staff/Leadership Relationships	66.0	72.9	80.2	78.0					
Overall Impact Avg	51.7	58.9	67.1	64.7					

 Table K.7

 Average Working Conditions Favorability Rates

 For CSL TSL And All Other Elementary Schools

<sup>&</sup>lt;sup>a</sup> While 64 percent schools overall made the OEA threshold of 50 percent of teachers for any schools to be included in a school-level analysis, only 35 percent of CSI schools met that threshold. Response rates were particularly low in CSI middle schools. Only 1 of 12 (8 percent) met the threshold.

Table K.8
Average Working Conditions Favorability Rates
For CSI, TSI, And All Other Middle Schools

			All	
Category	CSI Middle Schools	TSI Middle <mark>Sch</mark> ools	Other Middle Schools	All Middle Sch <mark>ool</mark> s
Educating All Students Category	60.2	64.7	68. <u>8</u>	66.3
Emotional Well-being	32.0	<mark>46</mark> .8	59.4	51.8
Feedback and Coaching	36.2	51.4	62.9	55.8
Managing Student Behavior	33.8	56.3	73.0	62.8
Professional Learning	36.5	52.3	64.6	57.0
Resources	33.6	44.6	55.3	48.7
School Climate	28.5	50.4	68.4	57.4
School Leadership	<u>38</u> .3	60.1	71.1	64.2
Staff/Leadership Relationships	54.5	73.5	80.8	76.1
Overall Impact Avg	39.3	55.6	67.1	60.0

Source: Staff analysis of data from the Kentucky Department of Education.

### Table K.9Average Working Conditions Favorability RatesFor CSI, TSI, And All Other High Schools

Category	CSI High Schools	TSI High Schools	All Other High Schools	All High Schools
Educating All Students Category	67.9	61.5	62.6	62.2
Emotional Well-being	33.4	45.5	50.4	48.4
Feedback and Coaching	35.9	42.8	46.8	45.1
Managing Student Behavior	26.5	53.6	62.6	58.8
Professional Learning	40.4	45.6	49.7	48.0
Resources	28.6	45.0	48.8	47.1
School Climate	29.0	45.2	52.9	49.7
School Leadership	39.9	52.2	57.6	55.4
Staff/Leadership Relationships	56.1	68.3	72.4	70.7
Overall Impact Avg	39.8	51.1	56.0	53.9

As shown in Table K.10, average safety and climate index data derived from student surveys in 2022 and 2023 show that index data for CSI schools are lower than for lowest-impact schools as a group .

#### Table K.10 Average Safety And Climate Index By School Level and CSI Schools 2022 And 2023

	Eleme	entary	Midd	le	High	
School Category	Number Of Schools	Average Index	Number Of Schools	Average Index	Number Of Schools	Average Index
Highest impact	99	81	47	74	28	67
Lowest impact	96	73	47	63	30	60
CSI	33	70	12	60	6	58
Total	700	77	316	68	226	62

#### Teacher Attrition, Principal Tenure, And Other Metrics For Schools Grouped By Average Percentage Of Students Eligible For FRPL

This section of the appendix provides the data for schools grouped by the average percentage of students eligible for FRPL. For schools in each category the tables below show data for teacher attrition, percentage of teachers with 5 years of experience or less, principal tenure, and data for the percentage of students that moved schools and the percentage of LEP students.

Tables showing the percentages of schools in the highest and lowest categories for teacher attrition grouped by the percentage of students eligible for FRPL for each school level are also shown below.

#### Elementary

The 110 elementary schools in the highest category for FRPL had average FRPL percentages that were more than 2.5 times that of the elementary schools in the lowest FRPL category. Elementary schools in the highest FRPL category had the highest rates of teacher attrition and the most teachers with 5 years or fewer of experience. These highest poverty elementary schools did have principals with the most years at the current school on average. The elementary schools in the highest FRPL category also had nearly 3 times the percentage of students that moved schools at least once, and 3.4 times the percentage of LEP students, relative to the elementary schools in the lowest FRPL category.

#### Table K.11 Teacher Attrition, Principal Tenure, And Select Student Characteristic Metrics For Elementary Schools Grouped By Percentage Of Students Eligible For FRPL

FRPL Category	School Count	Teacher Attrition	Percent Teachers 5 Years or Fewer	Principal Years At School	FRPL Percent	Percent of Students That Moved Schools	LEP Percent
Highest	110	21.2	36.7	6.3	88.3	6.3	14.1
High	175	16.7	32.6	5.8	75.8	4.6	6.2
Average	185	16.6	30.9	5.5	64.9	3.5	3.8
Low	126	15.3	26.2	5.4	53.0	3.1	4.5
Lowest	106	16.3	25.0	5.3	33.8	2.2	4.1
Elementary Schools	702	17.1	30.5	5.6	64.5	3.9	6.2

The table below shows the percentage of elementary schools in the highest and lowest teacher attrition categories for elementary schools grouped by the percentage of students eligible for FRPL. Elementary schools in the highest FRPL category were in the highest teacher attrition category at more than twice the rate relative to elementary schools in the lowest FRPL category.

Table K.12
Percentage Of Elementary Schools
In the Highest And Lowest Categories For
Teacher Attrition
Grouped By The Percentage Of Students
Eligible For FRPL
% Highest % Lowest

FRPL Category	% Highest Teacher Attrition	% Lowest Teacher Attrition	
Highest	29.1	10.0	
High	15.4	16.0	
Average	11.9	13.5	
Low	7.9	17.5	
Lowest	13.2	11.3	
All Elementary Schools	15.0	14.0	

Source: Staff analysis of data from the Kentucky Department of Education.

#### **Middle Schools**

Middle schools in the highest FRPL category also had the highest rates of teacher attrition and percentage of teachers with 5 or fewer years of experience. These highest poverty middle schools also had principals with the most years at their current school on average relative to the middle schools in the other categories. The average percentages of students that moved schools and LEP students were also in the highest FRPL category middle schools.

Teacher Attrition, Principal Tenure, And Select Student Characteristic Metrics For Middle Schools Grouped By Percentage Of Students Eligible For FRPL									
FRPL CategorySchoolTeacher TeacherPrincipal StudentsPercent ThatFRPL CategorySchoolTeacher AttritionSchoolFRPL or FewerMovedLEP Percent									
Highest	50	21.7	40.5	5.6	84.2	7.7	4.0		
High	76	20.3	36.7	4.5	73.5	5.6	2.5		
Average	96	19.7	33.7	4.6	<u>6</u> 3.0	5.1	2.3		
Low	44	18.3	29.3	4.7	52.6	4.7	2.4		
Lowest	51	19.4	<mark>30.8</mark>	5.5	36.7	3.3	2.3		
Middle Schools	317	19.9	34.4	4.9	63.2	5.3	2.6		

Table K.13

Source: Staff analysis of data from the Kentucky Department of Education.

The table below shows the percentage of middle schools in the highest and lowest teacher attrition categories for elementary schools grouped by the percentage of students eligible for FRPL. Middle schools in the highest FRPL category had the most schools from the highest teacher attrition category and the least schools in the lowest teacher attrition category on average.

Percentage In the Highest A For Tea Grouped By	and Lowest cher Attriti	Categories on tage Of
FRPL Category	% Highest Teacher Attrition	% Lowest Teacher
Highest	24.0	12.0
High	22.4	13.2
Average	13.5	12.5
Low	6.8	18.2
Lowest	15.7	19.6
All Middle Schools	16.7	14.5

#### **High Schools**

The same trends found in elementary and middle schools in the highest FRPL category were also found when looking at high schools.

# Table K.15Teacher Attrition, Principal Tenure,And Select Student Characteristic MetricsFor High Schools Grouped ByPercentage Of Students Eligible For FRPL

FRPL Category	School Count	Teacher Attrition	Percent Teachers 5 Years or Fewer	Principal Years At School	FRPI Percent	Percent of Students That Moved Schools	LEP Percent
Highest	38	19.9	37.3	5.2	79.4	7.5	6.2
High	47	17.2	33.6	5.3	67.2	4.2	2.0
Average	56	17.0	32.6	3.9	57.0	5.1	1.5
Low	50	17.6	29.5	4.6	47.3	4.4	2.0
Lowest	36	15.8	26.7	4.3	32.9	3.3	1.7
High Schools	227	17.5	32.0	4.6	56.9	4.9	2.5

Source: Staff analysis of data from the Kentucky Department of Education.

The table below shows the percentage of high schools in the highest and lowest teacher attrition categories for high schools grouped by the percentage of students eligible for FRPL. High schools in the highest FRPL category had the most schools in the highest attrition category, and the lowest percentage of schools in the lowest teacher attrition category for schools at all levels in the lowest FRPL category.

# Table K.16Percentage Of High SchoolsIn the Highest And Lowest CategoriesFor Teacher AttritionGrouped By The Percentage OfStudents Eligible For FRPL

Students	Eligible For I	
FRPL Category	% Highest Teacher Attrition	% Lowest Teacher Attrition
Highest	23.7	2.6
High	17.0	23.4
Average	16.1	14.3
Low	12.0	10.0
Lowest	8.3	19.4
All High Schools	15.4	14.1

# Table K.17Number And Percentage Of Schools ThatWere Identified For CSI In 2022 or 2023And Average Teacher TurnoverAll Schools And Schools With Higher Percentages OfFRPL, Black, Or LEP Students

		Teacher		
School Type	Count	Count	CSI %	<b>Turnover %</b>
All Schools	1246	51	4	18
75% Or More FRPL	321	46	14	20
50% Or More Black	58	29	50	24
20% Or More LEP	80	15	19	22

#### Appendix L

The following table shows the count and percentage of schools with 75 percent or more students eligible for free or reduced-price lunch, schools with 50 percent or more Black students, and schools with 20 percent or more LEP students by district.

			Count Of Schools			Percent Of Schools In District			
District	District Number	All Schools	FRPL 75% Or More	Black 50% Or More	LEP 20% Or More	FRPL 75% Or More	Black 50% Or More	LEP 20% Or More	
Adair County	001	3	1	0	0	33.3	0.0	0.0	
Allen County	005	4	0	0	0	0.0	0.0	0.0	
Anchorage Independent	006	2	0	0	0	0.0	0.0	0.0	
Anderson County	011	5	0	0	0	0.0	0.0	0.0	
Ashland	012	7	1		0	14.2	0.0	0.0	
Independent Augusta	012	7	1	0	0	14.3	0.0	0.0	
Independent	013	3	0	0	0	0.0	0.0	0.0	
Ballard County Barbourville	015	3	0	0	0	0.0	0.0	0.0	
Independent	016	3	0	0	0	0.0	0.0	0.0	
Bardstown									
Independent	017	3	0	0	0	0.0	0.0	0.0	
Barren County	021	9	0	0	0	0.0	0.0	0.0	
Bath County	025	4	3	0	0	75.0	0.0	0.0	
Beechwood Independent	026	3	0	0	0	0.0	0.0	0.0	
Bell County	031	13	10	0	0	76.9	0.0	0.0	
Bellevue Independent	032	3	1	0	0	33.3	0.0	0.0	
Berea Independent	034	3	0	0	0	0.0	0.0	0.0	
Boone County	035	25	1	0	3	4.0	0.0	12.0	
Bourbon County	041	5	1	0	0	20.0	0.0	0.0	
Bowling Green Independent	042	7	3	0	2	42.9	0.0	28.6	
Boyd County	045	6	0	0	0	0.0	0.0	0.0	
Boyle County	051	5	0	0	0	0.0	0.0	0.0	
Bracken County	055	3	0	0	0	0.0	0.0	0.0	
Breathitt County	061	5	3	0	0	60.0	0.0	0.0	
Breckinridge County	065	6	0	0	0	0.0	0.0	0.0	
Bullitt County	071	22	0	0	0	0.0	0.0	0.0	
Burgin Independent	072	3	0	0	0	0.0	0.0	0.0	
Butler County	075	4	0	0	0	0.0	0.0	0.0	
Caldwell County	081	3	0	0	0	0.0	0.0	0.0	
Calloway County	085	5	1	0	0	20.0	0.0	0.0	
Campbell County	091	7	0	0	0	0.0	0.0	0.0	

			Count O FRPL	of Schools Black	LEP	Percent C FRPL	)f Schools I Black	n District LEP
D: / ! /	District	All	75% Or	50% Or	20% Or	75% Or	50% Or	20% Or
<b>District</b> Campbellsville	Number	Schools	More	More	More	More	More	More
Independent	092	3	0	0	0	0.0	0.0	0.0
Carlisle County	095	3	0	0	0	0.0	0.0	0.0
Carroll County	101	3	0	0	0	0.0	0.0	0.0
Carter County	105	10	0	0	0	0.0	0.0	0.0
Casey County	111	5	1	0	0	20.0	0.0	0.0
Caverna		-						
Independent	113	3	3	0	0	100.0	0.0	0.0
Christian County	115	12	3	2	0	25.0	16.7	0.0
Clark County	121	8	0	0	0	0.0	0.0	0.0
Clay County	125	9	6	0	0	66.7	0.0	0.0
Clinton County	131	3	2	0	0	66.7	0.0	0.0
Cloverport	132	2	0	0	0	0.0	0.0	0.0
Independent		3			0	0.0	0.0	0.0
Corbin Independent Covington	133	4	0	0	0	0.0	0.0	0.0
Independent	134	7	7	1	2	100.0	14.3	28.6
Crittenden County	135	3	0	0	0	0.0	0.0	0.0
Cumberland County	141	3	2	0	0	66.7	0.0	0.0
Danville								
Independent	143	3	0	0	0	0.0	0.0	0.0
Daviess County	145	17	0	0	1	0.0	0.0	5.9
Dawson Springs Independent	146	3	0	0	0	0.0	0.0	0.0
Dayton Independent	140	3	3	0	0	100.0	0.0	0.0
East Bernstadt	147	- 5	5	0	0	100.0	0.0	0.0
Independent	149	2	0	0	0	0.0	0.0	0.0
Edmonson County	151	6	0	0	0	0.0	0.0	0.0
Elizabethtown	1.50	4	0	0	0	0.0	0.0	0.0
Independent	152	4	0	0	0	0.0	0.0	0.0
Elliott County Eminence	155	3	0	0	0	0.0	0.0	0.0
Independent	156	3	0	0	0	0.0	0.0	0.0
Erlanger-Elsmere								
Independent	157	6	1	0	0	16.7	0.0	0.0
Estill County	161	4	0	0	0	0.0	0.0	0.0
Fairview Independent	162	3	1	0	0	33.3	0.0	0.0
Fayette County	165	56	18	5	13	33.3	8.9	23.2
Fleming County	171	6	10	0	0	16.7	0.0	0.0
Floyd County	171	17	11	0	0	64.7	0.0	0.0
Fort Thomas	175	1 /	11	0	0	04.7	0.0	0.0
Independent	176	5	0	0	0	0.0	0.0	0.0
Frankfort	177	2	0	0	0	0.0	0.0	0.0
Independent	177	3	0	0	0	0.0	0.0	0.0

#### Legislative Research Commission

Office Of Education Accountability

				f Schools		Percent (	)f Schools I	n District
	District	All	FRPL 75% Or	Black 50% Or	LEP 20% Or	FRPL 75% Or	Black 50% Or	LEP 20% Or
District	Number	Schools	/5% Or More	S0% Or More	20% Or More	/5% Or More	S0% Or More	20% Or More
Franklin County	181	10	0	0	0	0.0	0.0	0.0
Fulton County	185	3	1	0	0	33.3	0.0	0.0
Fulton Independent	186	3	3	3	0	100.0	100.0	0.0
Gallatin County	191	3	0	0	0	0.0	0.0	0.0
Garrard County Glasgow	195	5	1	0	0	20.0	0.0	0.0
Independent	197	4	0	0	0	0.0	0.0	0.0
Grant County	201	6	2	0	0	33.3	0.0	0.0
Graves County	205	8	0	0	0	0.0	0.0	0.0
Grayson County	211	6	0	0	0	0.0	0.0	0.0
Green County	215	3	0	0	0	0.0	0.0	0.0
Greenup County	221	7	3	0	0	42.9	0.0	0.0
Hancock County	225	4	0	0	0	0.0	0.0	0.0
Hardin County	231	20	1	0	0	5.0	0.0	0.0
Harlan County	235	17	16	0	0	94.1	0.0	0.0
Harlan Independent	236	3	0	0	0	0.0	0.0	0.0
Harrison County	241	6	0	0	0	0.0	0.0	0.0
Hart County	245	11	2	0	0	18.2	0.0	0.0
Hazard Independent	246	-3-	0	0	0	0.0	0.0	0.0
Henderson County	251	11	1	0	0	9.1	0.0	0.0
Henry County	255	5	0	0	0	0.0	0.0	0.0
Hickman County	261	3	0	0	0	0.0	0.0	0.0
Hopkin <mark>s Co</mark> unty	265	14	1	0	0	7.1	0.0	0.0
Jackson County	271	5	1	0	0	20.0	0.0	0.0
Jackson Independent	272	3	0	0	0	0.0	0.0	0.0
Jefferson County	275	134	74	44	46	55.2	32.8	34.3
Jenkins Independent	276	3	3	0	0	100.0	0.0	0.0
Jessamine County	281	10	0	0	0	0.0	0.0	0.0
Johnson County	285	7	0	0	0	0.0	0.0	0.0
Kenton County	291	18	0	0	0	0.0	0.0	0.0
Knott County	295	14	9	0	0	64.3	0.0	0.0
Knox County	301	11	10	0	0	90.9	0.0	0.0
LaRue County	305	4	0	0	0	0.0	0.0	0.0
Laurel County	311	15	3	0	0	20.0	0.0	0.0
Lawrence County	315	7	2	0	0	28.6	0.0	0.0
Lee County	321	3	3	0	0	100.0	0.0	0.0
Leslie County	325	9	0	0	0	0.0	0.0	0.0
Letcher County	331	11	6	0	0	54.5	0.0	0.0
Lewis County	335	6	3	0	0	50.0	0.0	0.0
Lincoln County	341	7	2	0	0	28.6	0.0	0.0

District	District Number	All Schools	Count O FRPL 75% Or More	f Schools Black 50% Or More	LEP 20% Or More	Percent O FRPL 75% Or More	of Schools I Black 50% Or More	n District LEP 20% Or More
Livingston County	345	4	0	0	0	0.0	0.0	0.0
Logan County	351	11	0	0	0	0.0	0.0	0.0
Ludlow Independent	354	3	0	0	0	0.0	0.0	0.0
Lyon County	361	3	0	0	0	0.0	0.0	0.0
Madison County	365	17	0	0	0	0.0	0.0	0.0
Magoffin County	371	5	2	0	0	40.0	0.0	0.0
Marion County	375	7	1	0	0	14.3	0.0	0.0
Marshall County	381	9	0	0	0	0.0	0.0	0.0
Martin County	385	5	1	0	0	<b>2</b> 0.0	0.0	0.0
Mason County Mayfield	391	3	0	0	0	0.0	0.0	0.0
Independent	392	3	1	0	1	33.3	0.0	33.3
McCracken County	395	11	0	0	0	0.0	0.0	0.0
McCreary County	401	4	4	0	0	100.0	0.0	0.0
McLean County	405	5	0	0	0	0.0	0.0	0.0
Meade County	411	8	0	0	0	0.0	0.0	0.0
Menifee County	415	3	3	0	0	100.0	0.0	0.0
Mercer County	421	3	0	0	0	0.0	0.0	0.0
Metcalfe County Middlesboro	425	-3-	1	0	0	33.3	0.0	0.0
Independent	426	3	2	0	0	66.7	0.0	0.0
Monroe County	431	5	0	0	0	0.0	0.0	0.0
Montgomery County	435	6	0	0	0	0.0	0.0	0.0
Morgan County	441	6	2	0	0	33.3	0.0	0.0
Muhlenberg County	445	8	0	0	0	0.0	0.0	0.0
Murray Independent	446	4	0	0	0	0.0	0.0	0.0
Nelson County Newport	451	11	0	0	0	0.0	0.0	0.0
Independent	452	3	3	0	0	100.0	0.0	0.0
Nicholas County	455	3	0	0	0	0.0	0.0	0.0
Ohio County	461	8	1	0	0	12.5	0.0	0.0
Oldham County	465	16	0	0	1	0.0	0.0	6.3
Owen County Owensboro	471	3	0	0	0	0.0	0.0	0.0
Independent	472	8	4	0	0	50.0	0.0	0.0
Owsley County Paducah	475	3	3	0	0	100.0	0.0	0.0
Independent Paintsville Independent	476 477	5	2	3	0	40.0 0.0	60.0 0.0	0.0
Paris Independent	477	3	2	0	0	66.7	0.0	0.0
r ans muependent	4/0	3	2	0	0	00.7	0.0	0.0

#### Legislative Research Commission

Office Of Education Accountability

	<b>Count Of Schools</b>				Percent Of Schools In District				
	District	All	FRPL 75% Or	Black 50% Or	LEP 20% Or	FRPL 75% Or	Black 50% Or	LEP 20% Or	
District	Number	Schools	More	More	More	More	More	More	
Pendleton County	481	4	0	0	0	0.0	0.0	0.0	
Perry County	485	16	11	0	0	68.8	0.0	0.0	
Pike County	491	26	11	0	0	42.3	0.0	0.0	
Pikeville Independent	492	3	0	0	0	0.0	0.0	0.0	
Pineville	172	5	0	0	U	0.0	0.0	0.0	
Independent	493	3	3	0	0	100.0	0.0	0.0	
Powell County	495	5	1	0	0	20.0	0.0	0.0	
Pulaski County	501	12	4	0	0	33.3	0.0	0.0	
Raceland-									
Worthington Independent	502	3	0	0	0	0.0	0.0	0.0	
Robertson County	505	3	0	0	0	0.0	0.0	0.0	
Rockcastle County	511	5	0	0	0	0.0	0.0	0.0	
Rowan County	515	6	2	0	0	33.3	0.0	0.0	
Russell County	521	5	0	0	0	0.0	0.0	0.0	
Russell Independent	522	3	0	0	0	0.0	0.0	0.0	
Russellville	322	3	0	0	0	0.0	0.0	0.0	
Independent	523	3	2	0	0	66.7	0.0	0.0	
Science Hill				0	0	0.0	0.0	0.0	
Independent	524	2	0	0	0	0.0	0.0	0.0	
Scott County	525	-14	0	0	0	0.0	0.0	0.0	
Shelby County	531	12	0	0	3	0.0	0.0	25.0	
Simpson County	535	4	0	0	0	0.0	0.0	0.0	
Somerset Independent	536	3	0	0	0	0.0	0.0	0.0	
Southgate	550	5	· · · ·	Ū	Ū	0.0	0.0	0.0	
Independent	537	2	2	0	0	100.0	0.0	0.0	
Spencer County	541	4	0	0	0	0.0	0.0	0.0	
Taylor County	545	3	0	0	0	0.0	0.0	0.0	
Todd County	551	4	0	0	0	0.0	0.0	0.0	
Trigg County	555	3	0	0	0	0.0	0.0	0.0	
Trimble County	561	4	0	0	0	0.0	0.0	0.0	
Union County	565	5	0	0	0	0.0	0.0	0.0	
Walton-Verona			0	0	0	0.0	0.0	0.0	
Independent	567	3	0	0	0	0.0	0.0	0.0	
Warren County	571	23	5	0	7	21.7	0.0	30.4	
Washington County	575	5	0	0	0	0.0	0.0	0.0	
Wayne County	581	3	3	0	0	100.0	0.0	0.0	
Webster County	585	6	1	0	1	16.7	0.0	16.7	
Whitley County	591	8	6	0	0	75.0	0.0	0.0	
Williamsburg Independent	592	3	3	0	0	100.0	0.0	0.0	
Williamstown	572	5	5	0	0	100.0	0.0	0.0	
Independent	593	3	0	0	0	0.0	0.0	0.0	

		Co	ount Of Sch	Percent Of Schools In District				
District	District Number	All Schools	FRPL 75% Or More	Black 50% Or More	LEP 20% Or More	FRPL 75% Or More	Black 50% Or More	LEP 20% Or More
Wolfe County	595	5	4	Nore 0	Nore 0	80.0	0.0	0.0
Woodford County	601	6	0	0	0	0.0	0.0	0.0
State Total		1246	321	58	80	25.8	4.7	6.4