



Quality School LEADERSHIP

Measuring School Climate for Gauging Principal Performance

A Review of the Validity and Reliability
of Publicly Accessible Measures

A QUALITY SCHOOL LEADERSHIP Issue Brief | April 2012



AMERICAN INSTITUTES FOR RESEARCH®

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April 2012

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Acknowledgments

The authors wish to thank Lisa Grant, Pinellas County Schools; Eric Hirsch, New Teacher Center; Anthony Milanowski, Westat; Steven Ross, Johns Hopkins University; Lisa Lachlan-Haché, American Institutes for Research; Andrew Wayne, American Institutes for Research; and Jane McConnochie, American Institutes for Research; whose reviews of this brief improved its content.

The authors also wish to thank the Publication Services staff at American Institutes for Research who helped to shape the work.

Introduction

Many states and school districts are working to improve principal performance evaluations as a means of ensuring that effective principals are leading schools. Federal incentive programs (e.g., Race to the Top, the Teacher Incentive Fund, and School Improvement Grants) and state policies support consistent and systematic measurement of principal effectiveness so that school districts can clearly determine which principals are most and least effective and provide appropriate feedback for improvement. Although professional standards are in place to clearly articulate *what* principals should know and do, states and school districts are often challenged to determine *how to measure* principal performance in ways that are fair, systematic, and useful.

Designing principal performance evaluation is challenging for several reasons, two of which are given here. First, the literature provide little guidance on effective principal performance evaluation models. Few research or evaluation studies have been conducted to test the effectiveness of one evaluation system over another (Clifford and Ross, 2011; Sanders and Kearney, 2011). Second, reliance on current practice is problematic. Goldring, Cravens, Porter, Murphy, and Elliot (2007) found that district performance evaluation practices are inconsistent and idiosyncratic, and they provide little meaningful feedback to improve leadership practice. This means that performance evaluation designers have few guideposts to inform new designs.

One guidepost offered by research suggests that principals influence teaching and learning by creating a safe and supportive school climate. Some designers of improved school principal evaluation systems are including school climate surveys as one of many measures of principal performance.¹ School climate data are important sources of feedback because principals often have control over school-level conditions, although they have less direct control over classroom instruction or teaching quality (Hallinger & Heck, 1998). High-quality principal performance evaluations are closely aligned to educators' daily work and immediate spheres of influence (Joint Committee on Standards for Educational Evaluation, 2010). Such evaluation data offer educators opportunities to reflect on and improve their practices.

This policy brief provides principal evaluation system designers information about the technical soundness and cost (i.e., time requirements) of publicly available school climate surveys. We focus on the technical soundness of school climate surveys because we believe that using validated and reliable surveys as an outcomes measure can contribute to an evaluation's fairness, accuracy, and utility for a state or a school district. However, none of the climate surveys that we reviewed were expressly validated for principal evaluation purposes. We advise states and school districts to carefully study principal evaluation systems that are performing well and then select climate surveys that are useful measures of performance.

¹ For available measures, see the Guide to Evaluation Products at <http://resource.tqsource.org/GEP> for an unreviewed list of principal evaluation products.

In addition, policymakers tell us that they need technical soundness and cost information to initially screen possible measures for inclusion in principal evaluation systems. Designers can use the information presented in this brief to identify technically sound school climate surveys and then critically review those surveys to determine how well they fit into principal evaluation system designs.

This brief begins with an overview of school climate surveys and their potential uses for principal evaluation. Next it outlines our procedure for reviewing school climate surveys, which is followed by brief synopses of each survey that meets the minimum criteria for inclusion in the review. The brief ends with a discussion of the surveys reviewed.

School Climate and Principal Effectiveness

Policymakers and educators might take the view that principals, as school leaders, are ultimately responsible for all that occurs in a school building and all aspects of organizational performance. Such a perspective raises the possibility that principals will be evaluated on things that they do not (or cannot) control. Effective performance evaluations focus on aspects of school life and learning that principals can reasonably influence. For example, principals in some school districts have no budget allocation authority; therefore, it makes little sense to evaluate their performance as budget developers or managers. Performance feedback resulting from evaluations closely tied to work practices is more useful for changing practice than those that are not well aligned (DeNisi & Kruger, 2000; Joint Committee on Standards for Educational Evaluation, 2010).

Although the work responsibilities of principals vary, measures of school conditions offer principals and their evaluators useful feedback on performance because principals tend to have a *direct* influence on school conditions. Principals tend to have authority in controlling school-level conditions, such as school climate, and principals influence student learning by creating conditions within a school for better teaching and learning to occur. Studies of principal influence on student achievement note that their influence is *indirect*, meaning that principals affect student learning through the work of others. Principals, through their leadership and management practices, can determine what human, financial, material, and social resources are brought to bear on schools, and how those resources are allocated (Hallinger & Heck, 1998; Leithwood, Louis, Anderson, & Wahlstrom; 2004). These functions are reflected in national professional standards for principals (e.g., Council of Chief State School Officers, 2008; National Association of Elementary School Principals, 2009).

For these and other reasons, states and school districts have turned to school surveys—specifically school climate surveys—as measures of principal performance (see Box 1 for a definition of school climate). As research indicates, *school climate* is associated with robust and encouraging outcomes, such as better staff morale (Bryk & Driscoll, 1988) and greater student academic achievement (Shindler, Jones, Williams, Taylor, & Cardenas, 2009). Conversely, school climate research has indicated that a poor school climate is associated with higher absenteeism (Reid, 1983), suspension rates (Wu, Pink, Crain, & Moles, 1982), and school dropout rates (Anderson, 1982). Mowday, Porter, and Steers (1982) and Wynn, Carboni, and Patall (2007) reported that schools with negative school climates had high teacher absenteeism and turnover.

School climate surveys have a long history of use in education and educational research, but only recently have they been used for principal evaluation. For example, researchers have used climate surveys to determine whether school improvement efforts have achieved the desired effects or explain why some schools perform better or worse than others (e.g., a shared mission or vision). Climate surveys meet these purposes by asking teachers, staff, and others to make judgments about a school. A climate survey, for example, might ask teachers about how much they trust their colleagues, how much they believe in the school mission, or how safe they feel in expressing their ideas and opinions.

School climate surveys differ from *school audits* or *school walk-throughs*, which involve observations of school activities by trained staff. School climate surveys also differ from 360-degree assessments of principal practice because these assessments focus exclusively on gathering multiple perspectives on a principal's performance at a single point in time. (For a review of leadership assessments, see Condon & Clifford [2010].) Climate surveys more broadly assess the quality and the characteristics of school life, which include the availability of supports for improved teaching and learning.

State-level staff, superintendents, and others seeking to redesign performance evaluation systems may determine that a school climate survey should be used as one measure of principal effectiveness and seek existing surveys or develop one of their own. (For an overview of the principal evaluation design process, see Clifford et al. [2011].) Climate surveys with publicly available testing and validation information can provide policymakers the data they need to make decisions about which climate survey is best for their state or school district. Validated and reliable surveys can contribute to the fairness, the accuracy, and the legal defensibility of performance evaluation systems.

School climate is considered an *outcome* or a *result* of principals' work, such as improved instructional quality, community relationships, or student growth. When used for principal evaluation purposes, school climate surveys can contribute to a summative evaluation of principal performance; yet they are also often used for formative purposes. Principal evaluation system designers must determine if and how school climate measures should be included in principal evaluation, including what priority such results should be given in a principal's overall evaluation. Principal evaluation systems also include measures of principal practice, such as observations or a portfolio review, which provide insights on the quality of the work of principals.

Box 1. Climate, Culture and Context: What's the Difference?

The terms *climate*, *culture*, and *context* are frequently used interchangeably in education, but some argue that differences exist between these constructs (Deal & Peterson, 1999). Each term has different meanings, and no set list of variables is assigned to each term.

For the purposes of this brief, we define *climate* as the quality and the characteristics of school life, which includes the availability of supports for teaching and learning. It includes goals, values, interpersonal relationships, formal organizational structures, and organizational practices.

Culture refers to shared beliefs, customs, and behaviors. Culture can be measured, but school culture measures are not included in this brief. Culture represents people's experiences with ceremonies, beliefs, attitudes, history, ideology, language, practices, rituals, traditions, and values.

Context is the conditions surrounding schools, which interact with the culture and the climate in a school. School context can be measured, but such measures are not included in this brief.

Box 2. Definitions of Reliability and Validity

The school climate surveys included in this brief have not been validated for the purpose of principal evaluation, but several are currently being used for that purpose. We believe that using validated school climate surveys contributes to the credibility of principal evaluation systems, and policymakers should consider validity and reliability as criteria for selecting measures for the principal evaluation system. Subsequent to the selection of measures, policymakers will need to examine—and possibly adapt—surveys for use as principal evaluation instruments.

For an instrument to be included in this review, technical information on the psychometric soundness (i.e., accepted tested measures used to test for reliability and validity) on the instrument had to be publicly available, either on the Internet or by request. The instrument was determined to be psychometrically sound through a set of *a priori* criteria developed by the research panel, which will be discussed in the “Procedure” that follows. Reliability and validity testing provides evidence of psychometric rigor when measuring school climate. Psychometric rigor must be considered prior to implementing such instruments in schools and school districts, to ensure that the information gathered is accurate and valid, because of the high stakes in principal performance evaluations.

Reliability is the extent to which a measure produces similar results when repeated measurements are made. For example, if an instrument is used to measure school climate, it should consistently produce the same results as long as the school climate and the survey respondents have not changed.

Validity is the extent to which an instrument measures what it is intended to measure. This review was concerned with two types of validity: construct validity and content validity. *Construct validity* is an instrument’s ability to identify or measure the variables or the constructs that it proposes to identify or measure. For example, if an instrument intends to measure school safety as one construct of school climate, then multiple items on the survey instrument are needed to measure the degree to which a school is safe. Testing the construct validity of the school safety construct would determine how well the survey items measure school safety.

Content validity is the degree to which the content of the items within a survey instrument accurately reflects the various facets of a content domain or a construct. To use the same example as earlier, if school safety is one construct that a survey instrument intends to measure, then items within the instrument need to cover aspects of school safety (e.g., drug use and violence) that are identified in the research literature, by an expert review panel, or a set of widely accepted research-based standards.

The review does not include other forms of validity because we believed these forms of validity are a good starting point for policymakers’ deliberations. Other forms of validity are important, and we encourage policymakers to review all the available literature on the surveys prior to selection.

Procedure

To prepare this brief, we reviewed technical information on publicly available school climate surveys. All the surveys in this review were created and distributed by private companies, higher education institutions, school districts, or states for either no cost or a fee. The survey developers provided technical information on the survey contents, time requirements, and psychometric testing either through promotional literature, peer-reviewed journals, or on request. Some surveys were excluded from this brief because the content was proprietary or the survey developers did not publicly provide technical information with which to judge validity and reliability. Our purpose for the review is to provide principal evaluation system designers information about available school climate surveys. We do not endorse any particular survey.

We conducted a keyword² search of Google Scholar and Google to locate instruments measuring school climate. When the initial search yielded about 1,000 leads to follow, additional keywords of reliability and validity were added, and a content screen was conducted. The content screen narrowed the review to school climate surveys focusing on key aspects of school leadership, rather than a single and constrained focus. For example, we excluded surveys that focused solely on school safety because school leadership involves more than school safety, and we assumed that states and school districts would be disinclined to administer multiple surveys to assess principal performance.

This reduced the number of leads returned to about 125, which included but was not limited to surveys located by Gangi (2010) and AIR's Safe and Supportive Schools Technical Assistance Center (2011). Both sources were located after the initial review, and both independently analyzed psychometric properties of publicly available surveys through expert review. In addition, a snowball sampling (Miles & Huberman, 1994) method was used to query experts on principal performance evaluation design at state and district levels.

The criteria for sampling instruments were as follows:

- Reports on school climate as an intended use of the instrument.
- The instrument and the technical reporting information must be publicly available either on the Internet or by request.
- The instrument was developed within the last 15 years, which avoids the consideration of older instruments that do not reflect the dynamic nature of school climate research.
- The instrument is psychometrically sound (in reliability and validity) according to a priori criteria set by the research panel.
- Either teachers or school administrators complete the instrument.³

² The keywords used were school climate survey, measuring school environment, and school learning environment.

³ Parent and student surveys can also be administered to gauge school climate, but these surveys were excluded from the review because they are less commonly used for principal evaluation.

Our work is ongoing, and we welcome the opportunity to conduct additional, impartial reviews of other school climate surveys that are being used.

For the purposes of the review, psychometrically sound means that the instrument must be tested for validity and reliability using accepted testing measures. A minimum overall scale for reliability rating of .75 must be achieved.⁴ Also, content validity must have been evidenced by, at minimum, a rigorous literature review or an expert panel review. Finally, construct validity testing must be adequately documented to allow the research panel to judge the relative rigor by which the testing occurred (see Box 2).

Using these criteria, about 25 instruments were initially identified, but only 13 instruments met all the criteria to be included in the final review (see Table 1). Two American Institutes for Research (AIR) researchers conducted separate full reviews of the identified school climate surveys, and two additional AIR reviewers served as objective observers of the review process.

⁴ The research community differs on the benchmark or the minimum scale reliability needed to signify a reliable measure. Some researchers use a benchmark of .70, while others use .80 as a minimum. We set a minimum overall scale reliability of .75 as a compromise. Sometimes, overall reliability indexes are not computed for a scale because some researchers believe that an overall reliability for a scale that includes several subscales measuring different constructs is not warranted. In cases where no overall scale reliability is reported for the measures in this document, we report on the average subscale reliability. We set a minimum average subscale reliability of .60 for inclusion in Table 1, which is smaller than the benchmark for overall scale reliability, because subscales have fewer items, leading to smaller reliability coefficients. If the overall scale and subscale reliabilities are reported, we considered the overall scale reliability to be more definitive.

School Climate Surveys Reviewed

Alliance for the Study of School Climate—School Climate Assessment Inventory

Shindler, Taylor, Cadenas, and Jones (2003) originally developed the Alliance for the Study of School Climate—School Climate Assessment Inventory (ASSC—SCAI), which was published in 2004 by the Western Alliance for the Study of School Climate (now the Alliance for the Study of School Climate). According to Shindler et al. (2009), SCAI's purpose is to capture a detailed understanding of each school's function, health, and performance. It provides surveys for faculty, parents, and students for elementary, middle, and high schools that can be administered either individually or in a group setting. It takes approximately 20 minutes to complete. The measured constructs are physical appearance, faculty relations, student interactions, leadership and decisions, discipline environment, learning and assessment, attitude and culture, and community relations. For more information on ASSC—SCAI, see http://www.calstatela.edu/centers/schoolclimate/assessment/school_survey.html.

Brief California School Climate Survey

You, O'Malley, and Furlong (2012) developed the Brief California School Climate Survey (BCSCS) in response to the data collection requirement within the Safe and Drug Free Schools and Communities Act. BCSCS is adapted from California School Climate Survey and provides schools with data that can be used to promote a healthy learning and working environment. The survey is administered to teachers, administrators, and other school staff, and the responses are completed and submitted electronically. The completion time is not reported; based on the number of items, we estimate it will take about 7–10 minutes. It measures two major constructs: relational supports and organizational supports. For more information, see You et al. (2012) or http://cscs.wested.org/faqs_outside_ca.

Comprehensive Assessment of Leadership for Learning

The Wisconsin Center for Educational Research (WCER) created the Comprehensive Assessment of Learning for Learning (CALL). This survey instrument is the only survey reviewed for this brief that was developed as a formative feedback tool for school leaders. CALL gathers data from principals, school staff, and teachers and is intended for middle schools and high schools. WCER will soon be developing an elementary school version. The completion time for this survey is approximately 45–60 minutes. CALL captures current leadership practices in 5 domains: focus on learning, monitoring teaching and learning, building nested learning communities, acquiring and allocating resources, and maintaining a safe and effective learning environment. The survey is administered online to administrators and instructional staff and includes an electronic analysis and reporting mechanism. CALL also includes a procedure for ensuring

respondent anonymity through the assignment of special codes. For more information, see Halverson, Kelley, and Dikkers (2010) or <http://www.callsurvey.org>.

Comprehensive School Climate Inventory

The Center for Social and Emotional Education (CSEE; now the National School Climate Center) developed the Comprehensive School Climate Inventory (CSCI) in 2002 to measure the strengths and the needs of schools by surveying students, parents, and school staff. CSCI has versions available for elementary, middle, and high schools, and the reported completion time is 15–20 minutes. The measured constructs fall under four broad categories: safety, teaching and learning, interpersonal relationships, and institutional environment. The school staff version of the survey measures two additional constructs: leadership and professional relationships. For more information on CSCI, see <http://www.schoolclimate.org>.

Creating a Great Place to Learn Survey

Developed by the Search Institute (2006), the Creating a Great Place to Learn (CGPL) Survey focuses on the psychosocial and learning environment as experienced by students and staff. The student survey measures 11 dimensions, and the staff survey measures 17 dimensions. The dimensions can be organized into the following 3 categories: relationships, organizational attributes, and personal development. The completion time is not provided; based on the number of items, we estimate it will take about 30 minutes to complete the student survey and about 40 minutes to complete the faculty and staff survey. For more information, see Search Institute (2006) or <http://www.search-institute.org/survey-services/surveys/creating-great-place-learn>.

Culture of Excellence and Ethics Assessment

The Culture of Excellence and Ethics Assessment (CEEA) from the Institute for Excellence and Ethics is a comprehensive battery of school climate survey tools for students, staff, and parents. It focuses on the cultural assets, or protective factors, provided by school and family culture. The completion time is not provided; based on the number of items, we estimate the student survey to take between 35 and 40 minutes, the staff survey to take between 45 and 50 minutes, and the parent survey to take about 25 minutes to complete. The student and faculty-staff surveys include 3 constructs (with additional subconstructs): safe, supportive, and engaging climate; culture of excellence; and ethics. The faculty-staff survey includes a fourth construct for professional community and school-home partnership. For more information, see <http://excellenceandethics.com/assess/ceea.php>.

Gallup Q¹² Instrument

The Q¹² is an employee engagement survey from Gallup. It is an indicator of employee engagement or general workplace climate and measures the involvement and the

enthusiasm of employees in the workplace. It can be used in a school setting, as a measure of teacher engagement. The completion time is not reported, but based on the number of items, we estimate it to be between 6 and 8 minutes. The Q¹² is based on more than 30 years of accumulated quantitative and qualitative research, and the 12 items include an overall satisfaction question followed by items measuring “engagement conditions” such as role clarity, resources, fit between abilities and requirements, receiving feedback, and feeling appreciated (Harter, Schmidt, Killham, & Agrawal, 2009). For more information, see <http://www.gallup.com/consulting/52/Employee-Engagement.aspx>.

The 5Essentials School Effectiveness Survey

5Essentials from the University of Chicago Consortium on School Research is an evidence-based diagnostic system designed to drive improvement in schools nationwide. The survey is based on more than 20 years of research by the University of Chicago Consortium on School Research on schools and what makes them successful. The 5Essentials system includes comprehensive school effectiveness surveys of students and teachers that measures the following 5 constructs: effective leaders, collaborative teachers, involved families, supportive environment, and ambitious instruction. The student and teacher surveys each take less than 30 minutes to complete and are available in online format. For more information, see <http://www.uchicagoimpact.org/5essentials>.

Inventory of School Climate-Teacher

Brand, Felner, Seitsinger, Burns, and Bolton (2008) developed the Inventory of School Climate-Teacher (ISC-T) to collect information on teachers’ views of school climate to understand the effect of school climate on school functioning and school reform efforts. The survey is completed by teachers and measures 6 dimensions: peer sensitivity, disruptiveness, teacher-pupil interactions, achievement orientation, support for cultural pluralism, and safety problems. The completion time is not reported; based on the number of items, we estimate that it will require 15–20 minutes to complete. For more information on ISC-T, see Brand et al. (2008).

Organizational Climate Inventory

The Organizational Climate Index (OCI) is a short organizational climate descriptive measure for schools. The index measures 4 dimensions: principal leadership, teacher professionalism, achievement press for students to perform academically, and vulnerability to the community; it is completed by teachers. The completion time is not provided; based on the number of items, we estimate that it will require 15–20 minutes to complete. For more information on OCI, see Hoy, Smith, & Sweetland (2002) and <http://www.waynekhoy.com/oci.html>.

The Teacher Version of My Class Inventory—Short Form

Sink and Spencer (2007) developed the Teacher Version of My Class Inventory—Short Form as an accountability measure for elementary school counselors to use when evaluating a school's counseling program. This instrument assesses teachers' perceptions of the classroom climate as they relate to 5 scales: overall student satisfaction with the learning experience, peer relations, difficulty level of classroom materials, student competitiveness, and school counselor impact on the learning environment. The completion time is not reported; based on the number of items, we estimate it will take approximately 12–15 minutes to complete. For more information, see Sink and Spencer (2007).

School Climate Inventory-Revised

The School Climate Inventory-Revised (SCI-R) was originally developed to determine the effect of school reform efforts. Dean Butler and Martha Alberg (Butler & Alberg, 1991) developed SCI-R for the Center for Research in Educational Policy (CREP) at the University of Memphis. It was published in 1989, and revised in 2002. According to the authors, the survey provides formative feedback to school leaders on personnel perceptions of climate and identifies potential interventions specifically for the climate factors that hinder a school's effectiveness. The instrument surveys faculty and is intended to be administered in a group setting over a 20-minute period. The measured constructs are order, leadership, environment, involvement, instruction, expectations, and collaboration. For additional information on contractual arrangements for SCI-R administration or use, contact CREP at 901-678-2310 or 1-866-670-6147.

Teaching Empowering Leading and Learning Survey

The Teaching Empowering Leading and Learning (TELL) Survey was published by the New Teacher Center in 2002 and revised in 2011. The revised survey measures 8 constructs: time, facilities and resources, community support and involvement, managing student conduct, teacher leadership, school leadership, professional development, and instructional practices and support. Each construct contains numerous items; states can add, delete, or revise items to align the survey with their specific context. The survey is administered electronically through a centralized hub administered by the New Teacher Center, which provides survey access, data displays, and supportive text to assist with data interpretation. The survey is being used for principal evaluation purposes by states and school districts. The completion time is not reported; based on the number of items, we estimate it will take approximately 20 minutes to complete the survey. For more information, see <http://www.newteachercenter.org/node/1359>.

Discussion

School principals are responsible for creating a school climate that is amenable to teaching and learning improvement. Policymakers are, logically, investigating school climate surveys as a means of evaluating the outcomes of principals' work. As policymakers consider measurement options, we believe that they should critically review school climate surveys for technical soundness (validity and reliability) and cost. Valid and reliable climate surveys can contribute to the accuracy, the fairness, and the utility of new principal evaluation systems.

This brief provides policymakers an initial review of school climate surveys that have psychometric testing available for review. Most of the surveys included in this brief have not been developed for the express purpose of evaluating school principals, but they have been validated for research or program evaluation purposes. After reviewing this brief, we encourage policymakers to ask climate survey developers and vendors for information on using the surveys for principal evaluation purposes.

This brief identified 13 school climate surveys that displayed publicly available evidence of psychometric rigor (see Table 1). We believe that it is likely that additional school climate surveys have strong psychometric properties, but we were unable to locate evidence about these surveys through our Internet search or efforts to correspond with authors.

Our review suggests that school climate can be validly and reliably measured through surveys of school staff, parents, and students, and each group provides a different perspective on a school. Eight surveys were intended for use with school staff only, two were written for school staff and students, and three were written for staff, students, and parents. Some climate surveys have versions for certain types of respondents (e.g., SCI-R) that have been validated for use with all types of respondents, while other surveys have been validated for only one type of respondent (e.g., school staff or students). When selecting school climate surveys for principal evaluation or other purposes, it is important to consider the validity of use for different populations and the cost—in terms of the time required for respondents to complete the survey—necessary to gather accurate information about the school and weigh cost against the potential utility of gathering multiple perspectives on school climate.

Policymakers should also closely examine the constructs included in the surveys for alignment with state or district standards. The majority of the school climate surveys that we reviewed focused on school-level conditions that have been associated with improved student achievement and organizational effectiveness, but policymakers should examine these measures in light of principals' job expectations. If a principal is not responsible for improving certain conditions (e.g., principals may lack budgetary control), then certain climate surveys or certain items within surveys should not be used to measure principal performance. We also found that, with the exception of the CALL survey, the school climate surveys were not necessarily tied to leadership actions but are tied to expected outcomes. Therefore, states and school districts may need to provide principals support when interpreting the results and determining courses of action. The CALL survey specifically examines how well leadership systems in schools are functioning.

The surveys included in this brief also vary on brevity and costs. Accurate and brief surveys can be less financially or politically costly than longer form surveys. Convenient surveys may also have strong response rates, which are very important. The Gallup Q¹² and BCSCS (an adapted version of the longer California School Climate Survey) are good examples of surveys designed to be brief. Other surveys measure a host of additional constructs and subconstructs and could take up to 60 minutes to complete, an example being the CALL survey. Although longer surveys can be time consuming, they gather more information on additional constructs. Several surveys also have online interfaces for protecting respondent anonymity, which is critical for supplying principals and other administrators trustworthy information about constituent opinions. Other surveys, such as TELL, 5Essentials, and CALL, can provide analytic services to school districts or states, which reduce the overall costs and make the use of climate surveys more feasible.

Conclusion

AIR has produced this brief in response to state and school district requests for information about the validity and the reliability of existing, publicly available school climate surveys for use as a measure of principal performance. High-quality principal evaluation systems should be technically sound and logically tied to the standards and the purposes driving the evaluation system design. The AIR research team has located 13 school climate surveys that may be useful in measuring the degree to which principals have improved school climate, which is one of several expected outcomes of school-level leadership.

Using valid, reliable, and feasible school climate surveys as one measure of principal practice can provide evaluators a more holistic depiction of principal practice. Engaging in a time-consuming and potentially high-stakes principal performance evaluation without first choosing a scientifically sound measure can be a waste of valuable time and limited financial resources. If an ineffective or an inappropriate tool is used to measure broad-based school climate constructs for assessment purposes, misleading findings can lead to an inaccurate evaluation system and, ultimately, wrong decisions.

This brief reviews technical information on 13 school climate surveys that met the minimum criteria for inclusion in the sample as a starting point for identifying viable measures of principal performance. We emphasize that this is a *starting point* for selection. Policymakers are encouraged to contact survey vendors or technical experts to conduct an in-depth review of school climate surveys and specifically review surveys for

- Financial cost, particularly costs associated with survey analysis and feedback provision.
- Training and support for implementation to ensure reliability.
- Alignment with evaluation purposes, principal effectiveness definitions, and professional standards.

In addition, policymakers should raise questions with vendors about the applicability of climate surveys for elementary, middle, and high schools and procedures for assuring respondent anonymity (a method of ensuring that the survey respondents can respond honestly) and case study or other information about the use of climate surveys for principal feedback. Finally, we encourage policymakers to network with other states or school districts implementing school climate surveys for principal evaluation to learn more about using survey data for summative and formative evaluation purposes.

Table 1. School Climate Measures

Instrument	Author(s)	Approach	Time Required	Validity	Reliability ^a
ASSC-SCA ^b	Developed by Shindler et al. (2003); published by ASSC	Separate surveys for use with faculty, students (elementary, secondary, and high school), and parents in an individual or a group setting.	20 minutes	Content validity is established via literature review and theoretical support. Construct validity is established by substantial correlations among the 8 dimensions.	The subscale reliability coefficients range from .73 to .96. The overall reliability for the scale is .97.
BCSCS ^c	You et al. (2009)	The various versions range from 30 to 79 items, and all versions address 8 dimensions (physical environment, teacher interactions, student interactions, leadership and decisions, discipline and management, learning and assessment, attitude and culture, and community).	7–10 minutes (not reported; time inferred by the number of items)	Content validity is based on review of school climate literature and 19 staff school climate surveys. Construct validity is established through confirmatory factor analysis.	The survey contains two subscales: (1) <i>organizational supports</i> : The internal consistency of the subscales ranges from .84 to .86 for teachers and from .79 to .81 for administrator versions across elementary, middle, and high schools. The average subscale reliability for teachers is .85, and the average for administrators is .80. (2) <i>relational supports</i> : The internal consistency of the subscales ranges from .91 to .93 for teacher and administrator versions across elementary, middle, and high schools. The average subscale reliability for teachers is .85, and the average for administrators is .80.

Instrument	Author(s)	Approach	Time Required	Validity	Reliability^a
CALL	Halverson et al. (2010)	Principals, teachers, and other staff can take the survey. The principal version has 95 items, and the teacher version has 123 items.	45–60 minutes to complete (not reported; time inferred by the number of items)	Content validity is established via extensive review of other measures of school leadership as well as expert review by researchers and practitioners. Construct validity is established by using a Rasch model-based factor analysis.	The Rasch reliability coefficients range from .62 to .87 for five domains. Overall reliability for the survey is .95.
CSC ^b	Developed by CSEF (now the National School Climate Center) in 2004	The survey focuses on the distribution of leadership in schools, specifically in middle and high schools. The survey contains 5 dimensions (maintaining a schoolwide focus on learning, assessing teaching and learning, collaboratively focusing schoolwide on problems of teaching and learning, acquiring and allocating resources, and maintaining safe and effective learning environment).	15–20 minutes	Content validity is established through an extensive literature search and workshops on item development that included teachers, principals, superintendents, and school-based mental health workers. Construct validity is established via confirmatory factor analysis. Convergent validity is established via significant correlations with other measures of nonacademic risk, academic performance, and graduation rates.	The overall reliability for the scale is .94 for elementary schools and .95 for middle and high schools. Analysis of variance, multivariate analysis of variance, and hierarchical linear models show that the subscales and overall scale sufficiently discriminate among schools.

Instrument	Author(s)	Approach	Time Required	Validity	Reliability ^a
CGPL Survey	Search Institute (2006)	Focus on psychosocial and learning environment as experienced by students and staff.	Not provided (estimated as 30 minutes for the student survey and 40 minutes for the faculty/staff survey)	Content validity is established by theoretical and empirical work in educational psychology.	Low to moderate: The student survey dimension reliabilities range from .60 to .85. (Note: Most dimensions have 4 or fewer items, which hampers reliability.) The test-retest reliabilities for dimensions range from .61 to .87.
CEEA	Institute for Excellence and Ethics	There are 11 dimensions (55 items) in the student survey and 17 dimensions (76 items) in the staff survey. There are 3 categories of dimensions: relationships, organizational attributes, and personal development.	Discriminant and convergent validity is established via correlations with other scales in the survey.	Construct validity is established via factor analysis.	Low to high: The faculty/staff survey dimension reliabilities range from .68 to .85. (Note: Most dimensions have 5 or fewer items, which hampers reliability.) The test-retest reliabilities for dimensions range from .65 to .90.

Instrument	Author(s)	Approach	Time Required	Validity	Reliability^a
Gallup Q ¹² Instrument	Gallup Inc.	This 12-item instrument is based on extensive research and measures actionable issues for management that are predictive of employee attitudinal outcomes. In a school setting, this can be used to measure teacher engagement.	6–8 minutes per survey (not reported; time inferred by the number of items)	Content validity is established via focus groups and testing of survey items over several decades. Convergent validity is established via meta-analysis. Predictive validity is established via strong association between employee engagement and various work outcomes.	The alpha coefficient for the scale is .91, and test-retest reliability is .80.
The 5Essentials School Effectiveness Survey	Developed by University of Chicago Consortium on School Research	A framework was developed with accompanying items to better understand the supports that need to be in place in a school to increase learning. Five supports were developed: leadership, parent-community ties, professional capacity, student-centered learning climate, and curriculum alignment.	Under 30 minutes per survey	Content validity is established via a literature search, expert review, and the testing of survey items over several years. Construct validity is established via Rasch analyses and relating the 5 supports to indicators of student performance.	The Rasch individual reliabilities for the subscales range from .64 to .92. The Rasch school reliabilities for the subscales range from .55 to .88. The average subscale reliability for individuals is .78; for schools, it is .67.

Instrument	Author(s)	Approach	Time Required	Validity	Reliability ^a
ISC-T	Brand et al. (2008)	This 29-item assessment addresses 6 dimensions (peer sensitivity, disruptiveness, teacher-pupil interactions, achievement orientation, support for cultural pluralism, safety problems). It collects information about teachers' view of school climate.	15–20 minutes per survey (not reported; time inferred by the number of items)	<p>There is extensive validation across three studies.</p> <p>Content validity is based on extensive literature review of existing measures (including ISC-S [student version]) of educational climate as well as literature on how well adolescents adapt to learning environments.</p>	<p>The alpha coefficients for subscales range from .57 to .86, with most subscale reliabilities greater than .76. The alpha coefficient for entire survey is .89.</p>
OCI	Hoy, Smith, & Sweetland (2002)	This 30-item instrument measures 4 dimensions: principal leadership, teacher professionalism, achievement press for students to perform academically, and vulnerability to the community.	15–20 minutes (not reported; time inferred by the number of items)	<p>Content validity is established via a series of empirical, conceptual, and statistical tests.</p> <p>Construct validity is established via confirmatory factor analysis.</p>	<p>The subscale reliability coefficients range from .87 to .95.</p>
TMCL-SF	Sink & Spencer (2007)	This 24-item instrument has 5 factors: satisfaction, competitiveness, difficulty, peer relations, and SCI (school counselor impact or influence).	12–15 minutes (not reported; time inferred by the number of items)	<p>Content validity is established via a literature search.</p> <p>Construct validity is established through exploratory and confirmatory factor analysis.</p>	<p>The subscale alpha coefficients range from .57 to .88, with most subscale reliabilities greater than or equal to .73. The average subscale reliability is .77.</p>

Instrument	Author(s)	Approach	Time Required	Validity	Reliability^a
SCI-R ^b	Developed by Butler and Alberg (originally published in 1989 and revised in 2002); research on instrument presented in Butler and Rakow (1995); published by CREP	This 49-item assessment that addresses 7 dimensions: order, leadership, environment, involvement, instruction, expectations, and collaboration. It is administered to faculty only.	20 minutes	Content validity is based on a review of literature on factors associated with effective schools and organizational climates. Construct validity is confirmed during the development of the survey in that the items and scales can discriminate among schools.	The internal reliability coefficients for the 7 subscales range from .73 to .84. The average subscale reliability is .76.
TELL Survey	Research on measure reported by Swanlund (2011); published by the New Teacher Center	The revised survey measures 8 constructs (time, facilities and resources, community support and involvement, managing student conduct, teacher leadership, school leadership, professional development, and instructional practices and support). Each construct contains numerous items; states can add, delete, or revise items to align the survey with their specific context.	About 20 minutes	Content validity is established through an extensive literature review, item-measure correlations, and the fit of the items to model expectations. Validity is established via Rasch analysis.	The Rasch reliability coefficients for subscales range from .80 to .98. The average subscale reliability is .91.

^aAll average reliability coefficients in this table were calculated using Fisher's Z transformation. ^bDenotes an instrument that was identified by Gangi (2010) as being content and psychometrically sound. ^cBCSCS is included in lieu of the complete version of the survey because the complete version has not been validated as of 2011.

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This work was originally produced in whole or in part with funds from the U.S. Department of Education's Fund for the Improvement of Education (FIE) Earmark Grant Awards Program under grant number U215K080187. The content does not necessarily reflect the position or policy of the Education Department, nor does mention or visual representation of trade names, commercial products, or organizations imply endorsement.