

Political Control Versus Bureaucratic Values:

Reframing the Debate

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Abstract

The literature on political control of bureaucracy reveals that bureaucracies are highly responsive to political forces. This paper argues that the political control literature misses evidence from several other literatures that bear directly on this phenomenon. We specifically argue that researchers need to consider the values of the bureaucracy in efforts to assess the degree of political control. An empirical test is presented using a data set from public education. Results show bureaucratic values to be far more influential in explaining bureaucratic outputs and outcomes than political factors. These findings suggest that a reinterpretation of previous empirical research is in order.

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Since 1982 a distinct line of research in political science has focused on “political control of the bureaucracy.” Taking its cues from political and journalistic claims that bureaucracy can run amok and must be held in check by political forces if democracy is to be served, the literature demonstrates that bureaucratic actions are correlated with political stimuli. The portrait painted of the political process suggests a bureaucracy not only responsive to political pressures but also generally passive in the face of such challenges. Bureaucratic variables themselves, however, are largely ignored in most studies of this genre (see columns 2 and 3 of Table 1). Ironically, then, the modal test of political control over bureaucracy omits everything, or nearly everything, regarding the assertedly problematic institution itself — bureaucracy.

[Table 1 about here]

To paraphrase others, it is time to bring the bureaucracy back in — to the investigation of its own politically relevant actions (Evans, Rueschemeyer and Skocpol 1985). This paper challenges the literature on political control of bureaucracy by arguing that the empirical studies have encouraged misleading inferences about the forces shaping bureaucratic action. First, a review of the literature illustrates several flaws that stem from the failure to incorporate the scholarly insights from related specialties. Second, work grounded in representative bureaucracy is identified as one way to overcome these weaknesses. Third, empirical tests explicitly compare the political control hypothesis with its usually-neglected rival: that bureaucratic values dominate the administrative process. These tests, employing several dependent variables, demonstrate that political factors, while influential, affect only a modest portion of bureaucratic actions.

Bureaucratic features themselves dominate political ones in these explanations. Finally, the implications of these findings for the study of bureaucracy and politics are discussed.

Explorations of Political Control

The typical political control study begins with a brief allusion to theory, most frequently principal-agent theory. Rather than directly engaging agency theory (see Waterman and Meier 1998), the standard article merely assumes goal conflict between agents/bureaucrats principals/politicians and that politicians will take action to get the bureaucrat to respond as they desire (e.g., Hedge and Scicchitano 1994). Such politically triggered actions can range from direct orders (Chaney and Salzstein 1998) to political appointments (Wood and Waterman 1991) to “deck-stacking” administrative procedures (Balla 1998). When the empirical study is introduced, the bureaucracy itself is often left behind. In most cases, political variables are measured (often as surrogates), and correlation of outputs with these is taken as evidence of political control.¹ The limits of this research, however, can be illustrated by a focus on three literatures that address similar problems: public administration, bureaucratic politics, and organization theory.

Public Administration

Within public administration, an extensive literature examines similar questions under the rubric of “public administration and democracy” (Friedrich 1940; Finer 1941; Redford 1969).

This scholarship is explicitly focused on bureaucracy and how its nondemocratic processes might

¹Accumulated studies are not all of a piece. Research has explored a wide range of external political institutions and stimuli, employed several methods, examined a number of (usually federal and regulatory) bureaus, and sought to explain a number of bureaucratic actions. Some of the studies have found only limited support for a simple version of the political control hypothesis (for instance Wood 1988; Carpenter 1996; Balla 1998), and some suggest complex and possibly reciprocal causal paths (Krause 1996) as well as subtle and multiple bureaucratic response repertoires (Wood and Waterman 1993; Ringquist 1995).

be reconciled with democratic governance. One stream of work advocates overhead democracy, the notion that elected officials oversee and perhaps control the actions of bureaucracy (Redford 1969). Although this literature is both normative (e.g., Hyneman 1950) and empirical, it parallels the principal-agent/political control work within political science.

One distinct point of divergence in the two literatures is that the public administration literature is concerned with the circumscribed reach of political control. Friedrich (1940), perhaps most eloquently, notes the limitations on elected officials in terms of time, inclination, and expertise. Political control as a process is no different from the internal managerial question of how one gets subordinates to comply with the wishes of superiors. Within public administration that relationship is addressed in far more nuanced ways than in the principal-agent literature. Simon (1947), relying on Barnard (1938), argues that authority comes from below. Bureaucrats have a “zone of acceptance,” and requests to act outside that zone in normal circumstances are rejected. Simon conceptualizes the relationship between superior and subordinate as reciprocal, with both actors shaping aspects of their joint action. Political-bureaucratic relationships can clearly be seen in similar terms.

The reciprocal nature of the bureaucrat/politician relationship, the greater expertise possessed by the bureaucracy in both political and technical terms, the time constraints on politicians, the relative longevity of bureaucratic actors, and the general bluntness of political tools of control – all suggest severe limits for overhead democracy. As Robert Dahl (1970) notes, the primary control on administrative behavior is the inner check, the values held by the bureaucrat (see also Brehm and Gates 1998). These operate beyond the decisions and actions that can reasonably be monitored by political overseers and may even enable bureaucrats to

“respond” in an anticipatory sense to broad public preferences without explicit intervention or signaling from politicians (cf. here Friedrich’s (1940) “law of anticipated reaction”).²

Without knowledge of the values held by the bureaucracy, any attempt to determine the degree of political control is futile. The notion of political control entails the concept of power – that *political officials get bureaucrats to act in a way that they would not otherwise have done*. Only by knowing how the bureaucracy would act, independent of the efforts of would-be political controllers, can the idea of political control have real meaning. Measuring bureaucratic values, therefore, is essential to resolving the issue of how much political control is available or possible, and under what conditions.

Unfortunately, the political control literature rarely measures any bureaucratic variables, let alone bureaucratic values (Table 1, columns 2, 3). In general goal conflict between politicians and bureaucrats is assumed rather than measured, despite evidence that many relationships are marked by goal consensus (Meier, Wrinkle and Polinard 1999). In a few cases, some authors use the notion of revealed preferences and infer bureaucratic values from agency outputs (Scholz and Wood 1999; Krause 1996) or assume that values are captured in a lagged dependent variable (Wood 1992). Three exceptions can be noted. Sabatier, Loomis and McCarthy (1995) use proposed forestry plans to estimate bureaucratic values; Eisner and Meier (1990) employ

²The public administration and democracy literature can even be used to challenge the notion that democracy is what political institutions do. As Woodrow Wilson framed the issue comprehensively in his classic essay: “the ideal for us is a civil service cultured and self-sufficient enough to act with sense and vigor, and yet *so intimately connected with popular thought, by means of elections and constant public counsel*, as to find arbitrariness or class spirit quite out of the question” (1887: 217, emphasis added). At times the political control literature recognizes that responsiveness to a political appointee might not further the interests of democracy (see Wood and Waterman 1994).

professional training; and Gormley, Hoadley and Williams (1983) use surveys. For the most part, however, the political control literature fails to measure bureaucratic values adequately, thus, limiting what can be said about how well political officials direct bureaucratic actions.

Bureaucratic Politics

The political control literature is also less useful because it focuses attention on single agencies, or a few agencies of a similar type. The work of Wood (1988), for example, has used advanced time-series techniques to show how political actions are associated with changes in agency activities (controlling for the history of the organization). The focus on a single agency over time gives analysts leverage by transforming some variables into constants and permitting others to be easily measured. Political forces, as a result, can often be measured as dummy variables representing a presidential appointment, a committee hearing, or a shift in partisanship. Attempts to overcome the limited number of agencies generally involve adding additional time series cases with another agency (see Wood and Waterman 1993).

The advantages of a limited number of agencies in terms of measurement and tractability come at the cost of generalizability. Results could well be idiosyncratic to the agency. Why did the political appointment of William Ruckelshaus to head the EPA during the Reagan administration matter (Wood and Waterman 1993) but the appointment of Susan Kennedy to the Consumer Product Safety Commission not? Of the political control studies listed in Table 1, only Chaney and Saltzstein (1998) and Gormley, Hoadley and Williams (1983) incorporate more than a handful of agencies.

Perhaps as limiting as the small number of agencies has been the reliance on agencies generally of the same type – federal regulatory agencies (exceptions are Corder 1998 and Meier,

Wrinkle and Polinard 1995; Gormley, Hoadley and Williams 1983; Chaney and Saltzstein 1998). The bureaucratic politics literature suggests that a bureau's ability to take independent action is a function of having both resources and autonomy. Resources and autonomy are in turn a function of the bureau's political support (clientele, the public, elected officials), expertise, organizational cohesion, and leadership (Rourke 1969; Meier 2000). Limiting studies to federal regulatory agencies alone truncates variation on many of these factors, thus suggesting either greater or lesser political control than would be the case for most other agencies.³

Organization Theory

Government bureaucracies are goal-oriented collectivities with multiple objectives (Downs 1967; Thompson 1967; Rainey 1997). This feature renders the interaction of political officials and bureaucracy more complex, simply because the bureaucracy can respond to political officials in terms of one goal while simultaneously moving away from political intent on another. The general issue of political control, therefore, is more complicated than is often apparent.

A review of political control studies shows that a range of bureaucratic activities is examined, each perhaps linked to different goals. Most of the relevant control literature follows

³We think that regulatory agencies are more "controllable" than distributive agencies but less controllable than redistributive agencies. These are merely hypotheses that need to be empirically verified. The limited set of bureaucracies in the political control literature are all characterized by a similar structural factor; none operates in an interdependent network setting where the agency must coproduce regularly with other units or gain the cooperation of other agencies, governments, and private organizations to actually implement policy (O'Toole 1997; 1998; 2000). Some evidence suggests that these more complicated structural arrangements are fairly common settings for new public programs (Hall and O'Toole 2000). In fact, what the notion of political control means in a situation where policy is implemented via a network is unclear (see Light 1999). Does it actually matter if a political institution "controls" a bureaucracy that is enmeshed in a network of actors over which the bureaucracy has little if any control?

Wood and examines enforcement actions (Wood 1986; Wood and Waterman 1994; Scholz and Wei 1986); other studies assess the content of regulations (Balla 1998), internal resource allocations (Scholz and Wood 1999), and proposed plans (Sabatier, Loomis and McCarthy 1995).

Despite this diversity of activities across different research projects, each individual study usually limits itself to a narrow range of indicators. We do not know, for example, if the EPA's response of enforcing regulations has come at the expense of issuing regulations or overseeing state clean air plans. A lesson of organization theory is that studies need to consider a wide range of agency activities consistent with the agency's multiple goals. This approach should include not just internal decisions and policy outputs but also policy outcomes. After all, the most critical political question is whether or not EPA actions result in cleaner air, not in whether total enforcement actions rise or decline. While the latter may relate to the former and may garner attention from political overseers (and researchers), an agency could manipulate enforcement actions so as not to affect policy outcomes (see Bohte and Meier 2000).

Representative Bureaucracy as an Integrative Theory

Because the political control research uses a truncated version of principal-agent theory (Waterman and Meier 1998), it cannot consistently present falsifiable hypotheses. Even in its most robust forms the principal-agent model cannot predict in advance whether any individual attempt at control will succeed. Although a variety of theories might be used to flesh out the question of political control over the bureaucracy, we think the most promising is representative bureaucracy.⁴ The theory of bureaucratic representation provides an attractive alternative to the

⁴The same theoretical implications could be derived via spatial modeling by constructing this problem as one with different ideal points for bureaucracy and legislature.

principal/agent framework because it can offer predictions about the most crucial question in the political control puzzle—how the bureaucracy would act in the absence of political actions.

Representation is a process that occurs in both political and bureaucratic institutions (Long 1952).⁵ In political institutions representation is often the institution’s sine qua non. Legislatures exist to represent the preferences of the public, among other things. Bureaucracies are not considered as primarily representative institutions, yet a long line of scholars has argued that bureaucracies can perform such functions, even if only under limited circumstances (recently see Keiser et al. 2002; Selden 1997). By examining representation in both bureaucracy and a political institution, some leverage on the question of political control can be gained.

The representation literature, whether for political institutions or for bureaucracy, is concerned with the translation of passive representation into active representation. Passive representation occurs when the representative resembles the represented on one or more dimensions (race, ethnicity, political party, social status, etc.). Active representation occurs when the representative acts in the interests of the represented – that is, takes action that the representative thinks will benefit the represented (Pitkin 1967; Mosher 1982).

The theory of representative bureaucracy focuses on this translation of passive to active representation by addressing whether and when a bureaucrat makes decisions that benefit the persons being represented. Representative bureaucracy is a parsimonious theory that considers such questions as when minority bureaucrats are likely to act in ways that benefit minority citizens. A bureaucrat who shares common demographic origins with a citizen is thought also to

⁵We abide by the practice, common in the literature, of referring to electoral institutions as “political institutions” and do not mean to include bureaucracies when we use that term here. We recognize that bureaucracies are actually also political institutions.

share values. As a result, if a bureaucracy representative of the public (on all its dimensions) exercises discretion and pursues its own values, it will also pursue the values of the public.⁶

Of course, additional values are likely to be held by the bureaucracy – and political institutions – aside from those relevant represented demographic groups. But comparing the translation of passive into active representation in both a bureaucracy and a political institution might tell us a great deal about political control of the bureaucracy. By incorporating some of the values of both institutions, we can determine when a bureaucracy was acting as it did because it was in the bureaucracy's self interest or when it has acted in response to political demands.

The present study grapples with the question of political control over the bureaucracy by using the theory of representative bureaucracy within the context of Latino education. Previous studies of legislatures (Hero and Tolbert 1995; Kerr and Miller 1997; Vigil 1997; Espino 2003) and bureaucracies (Hinderer 1993; Meier and Stewart 1991; Selden 1997) have examined the ability of Latino legislators and bureaucrats to make decisions that benefit Latinos in general. In both sets of studies passive representation (being a Latino) was associated with active representation (actions that benefit Latino citizens).

Our specific test of politics versus bureaucracy focuses on Latino education in a large, diverse state. The analysis offers four distinct advantages over the extant literature on political control. First, the ethnicity of both elected officials (school board members) and bureaucrats

⁶This outline of the theory omits numerous complications. Not all individuals in a given bureaucracy have equal power, so aggregate representativeness does not necessarily translate into active representation in important decisions. Agency and professional socialization can also limit the passive-active link. These and other issues can be ignored in the analysis that follows. The empirical portion of this paper focuses on bureaucracies where discretionary decision making is widely dispersed and on a demographic dimension that is salient to both politicians and bureaucrats, thus affording an appropriate assessment of political vs. bureaucratic control.

(teachers) can be used to infer values in the respective institutions (similar to past studies, see Hero and Tolbert 1995; Kerr and Miller 1997; Hinderer 1993; Meier and Stewart 1991). Both political values and bureaucratic values, therefore, are measured on the same metric. The common metric makes such a measure preferable to measures of values such as interest group scores or roll call votes that can be tapped only for one institution (see Scholz and Wei 1986; Wood 1998; Balla and Wright 2001). Second, schools have multiple goals, and this study exploits that feature by examining results on nine different policy measures. Third, the education literature has a well-developed set of production functions that predict how various inputs lead to specific results. Control variables to ensure that the results are not spurious are readily available. Fourth, our data set contains over 1000 cases for a nine-year period, that is over 1000 sets of political principals interacting with 1000 different bureaucracies, thus ensuring the results are not a function of the unique features of a given set of politicians or bureaucrats.⁷ In short, this study reaches beyond federal regulatory agencies with a large-n test of the relative importance of overhead political control versus the influence of bureaucratic values in shaping multiple policy outputs and outcomes.

Measures and Data

The Data

The units of analysis are 1043 public school districts in Texas for the years 1993 to 2001. Because data are reported only when at least five students in a district meet the reporting criterion

⁷Ideally we would have bureaucracies that operate in a wide range of policy areas. Finding comparable output indicators in such a situation is likely impossible. By selecting the same type of public organizations, we improve our measurement at the expense of external validity, a good tradeoff given that these districts are extremely diverse.

(e.g., at least five Latino students taking an AP exam) and we lag the dependent variable, the actual number of cases varies from 7,713 for student attendance to 318 for advanced placement exam pass rates. More general indicators, such as attendance and performance on the required state test, have the most cases; indicators of elite performance such as SAT scores or AP classes have the fewest. In addition, some outcome indicators were not collected in the earlier years of the data set. All data were taken from the electronic files of the Texas Education Agency and cleaned for obvious errors.

A pooled time series data set such as this one can be affected by problems with serial correlation and heteroscedasticity (Stimson 1985; Baltagi 1995; Beck and Katz 1995). Because the work in this area has for the most part used dynamic specifications, we have opted to lag the dependent variable in all regressions. This process creates a set of fixed effects for each of the units of analysis that was able to eliminate problems of serial correlation (see Beck and Katz 2004).⁸ Heteroscedasticity tests showed only minimal levels of heteroscedasticity; reestimating the equations with Huber-White standard errors produced similar results.

Although most studies of political control do not justify the representativeness of their cases, little will be gained in the study of bureaucracy without an explicit consideration of organizational characteristics and how they compare to those of other bureaucratic units. School districts, the most common type of U.S. public bureaucracy, employ more individuals than any other kind of government organization. School districts in Texas are highly diverse, as one might

⁸The autoregressive coefficients indicate that these series are clearly stationary (ranges from .58 to .19) so that differencing the series would induce substantial serial correlation (likely of a moving average nature). We also replicated the results using individual dummy variables for each of the years and got similar results.

expect in a heterogeneous state with over 8% of all U.S. school districts. Districts in the data set cover the gamut from urban to rural, rich to poor, monoracial to multi-racial.

As organizations, school districts are highly professional, decentralized organizations with a great deal of discretion vested in street-level bureaucrats. They fit Wilson's (1989) definition of craft organizations. While such organizations have characteristics that appear to advantage bureaucrats in their interactions with politicians (e.g., professional expertise, decentralized structures, a craft-like technology), they also entail governance structures that facilitate political control. All districts but one in this study are independent school districts governed by an elected school board.⁹ The school board appoints the chief operating officer (the superintendent), establishes the agency budget (as well as the tax rate), determines educational policy issues such as curriculum, and oversees the operations of the school systems.¹⁰ Because school districts tend to be flat organizations, the distance between school board members and a teacher actually delivering services is relatively small. The transaction costs of attempting to influence the bureaucracy, as a result, should be less than for organizations where politicians have to penetrate several layers of hierarchy to influence the appropriate bureaucrats. Earlier research found that proximity to political overseers enhances control (Chaney and Salzstein 1998); these sorts of local districts, therefore, should be good contexts for picking up political influences. Furthermore, as special districts executing only one type of policy, school districts

⁹A dependent school district has a school board appointed by another entity (e.g., the Mayor, the city council) and does not have independent taxing powers.

¹⁰Unlike some states that permit voters to act on district budgets, Texas vests this authority fully with the school board. Voters can only play a role in two instances: school bond referenda and school board elections. Such structures are similar to those that operate in most models of overhead democracy.

permit political leaders to pay focused and sustained attention to control and performance in a single policy field without competition from a range of unrelated policy matters. Finally, no separation-of-powers issues arise to complicate the principal-agent link.

No single study of the connection between politics and bureaucracy is likely to be generalizable to all such relationships, simply because bureaucratic units vary on numerous factors likely to influence these relationships (Meier 2000). While the results of this study can most easily be generalized to other school districts and to highly professional, decentralized bureaucracies, the large number of cases, the focus on multiple outcomes, and the problems with prior research suggest that the findings here might be more likely to apply to political-bureaucratic interactions than those currently available in the literature.

Representation: The Values' Surrogate

An objective comparison of political versus bureaucratic influence on policy outcomes requires that both political and bureaucratic values be measured on the same metric. If we assume, as the empirical literature finds, that both Latino school board members and Latino teachers seek to improve the educational opportunities of Latino students, then the simple percentages of school board members and teaching faculty who are Latino provide good measures for comparison purposes. Is ethnicity a good surrogate to measure values in this situation? We believe that the ethnicity of school board members offers a suitable and perhaps superior alternative to those employed in past studies, which have used primarily interest group scores, partisan percentages, or budgetary shifts as proxies for political preferences (See Sholz and Wei 1986; Sholz et al 1991; Wood 1998; Wood 1990; Ringquist 1995; Carpenter 1996; Krause 1996). While these are not necessarily flawed measures of political preferences, they are

also not theoretically or empirically superior to ethnicity as a proxy for values. An extensive public opinion literature has demonstrated that Latinos hold political attitudes different from those of Anglos (Cain and Kiewiet 1984; de la Garza et al. 1992; Gimpel and Kaufmann 2001; Hood, Morris, and Shirkey 1997; Leal 2003;2004; Martinez-Ebers et al. 2000); these differences grow substantially when the issue is salient to the Latino community – as with matters such as bilingual education, immigration, or affirmative action (Leal 2004; Espino 2004). While Latinos or any other group are not monolithic in attitudes, they do show a sufficient degree of consistency on key issues. Even the Cuban-American population, which differs significantly on foreign policy issues (primarily focused on Cuba), shares issues positions with other Latinos on domestic issues. This commonality of interests is likely to be particularly true when the outcomes being studied directly affect clients of the same ethnicity, as they do in this study.

Because the variables capturing political and bureaucratic preferences are measured with the same metric, coefficient sizes can be directly compared. We constructed the school board ethnicity variable by using information from the U.S. Census, the Texas Association of School Boards, the National Association of Latino Elected Officials, and an original survey (see appendix A for specifics). All other data were taken from the Texas Educational Agency (TEA). Between 1993 and 2001 the average school district in Texas had 9.2% Latino board members ($s = 21.3$) and 8.1% Latino teachers ($s = 18.0$).¹¹ The two measures share approximately 75% of their variation; however, one advantage of several thousand cases is that substantial unique variation remains for both measures.

¹¹Because the variables have generally the same mean and distribution, a comparison of the slopes yields an indicator of total potential impact in addition to the normal marginal impact.

To provide a fair test of political versus bureaucratic influence, this study limits the comparison to these variables. Bureaucracies influence outcomes in a wide variety of ways, and we could easily bias the results by giving bureaucracy credit for the overall student performance (used as a control, see below), the stability of the system, or the level of expertise in the system (see Meier and O'Toole 2001). We ignore these possible bureaucratic influences and effectively create a tough standard on which to compare bureaucratic and political influence.

Dependent Variables

Public bureaucracies have multiple goals (Downs 1967; Simon 1947; Thompson 1967), and school districts are no exception. Even if one ignores the broader educational objectives of creating democratic citizens and focuses solely on student performance, school systems provide numerous programs aimed at a wide variety of goals – ensuring attendance, preventing dropouts, mastering basic skills, preparing students for college, etc. Even though some goals might be held in higher regard than others, Latino politicians and bureaucrats are likely concerned with Latino student performance relative to all these goals. To provide as complete a view as possible, this study uses nine different performance indicators for Latino students.

At the low end of the performance scale, students need to attend school to gain any benefits from the process. Our measure is the percentage of Latino students attending class. We also considered using dropout rates but decided not to do so owing to the quality of the data. Student populations are highly mobile, and schools may not know if a student has dropped out of school rather than moved and have little incentive to find out. In addition, at least one major school district in our sample (Houston ISD) was caught reporting false dropout data in 2003.

Basic skills achievement tests are a moderate-level goal for school districts. Texas,

during this time, used the Texas Assessment of Academic Skills (TAAS) in grades 3 through 8 and as an exit exam.¹² Our performance measure is the percentage of Latino students who pass all of the various TAAS tests (e.g., math, reading, writing, etc.) at all grade levels.

Within a school system, the quality of education will vary from school to school and classroom to classroom. To tap some of this variation in educational quality, we use three indicators: the percentage of Latino students who gain access to advanced classes, the percentage who take advanced placement (AP) classes, and the percentage who pass advanced placement exams. AP classes are designed to be college-level classes; students who take these classes and pass the national exam with a grade of 3 or higher can get college credit.

For top-end indicators, we include four measures of college preparation. These include the percentage of Latino students who take either the ACT or SAT exam, the average Latino SAT score, the average Latino ACT score, and the percentage of Latino students who score above 1110 on the SAT or its ACT equivalent (defined by the state of Texas as an indicator of potential college success). Students who do not take either exam are unlikely to attend college. Texas has large percentages of students take both the SAT and the ACT so that results are generally not affected by the performance of a small number of students.

The nine performance indicators for Latino students are clearly distinct from each other. The average of the 26 intercorrelations between the indicators was only .18, and eight of the correlations were actually negative (albeit very small). A factor analysis of the nine indicators revealed three significant factors with no single factor accounting for more than 34% of the

¹²The test was changed in 2003 to the Texas Assessment of Knowledge and Skills (TAKS). Results of the two exams are highly correlated.

variance.¹³

Control Variables

Three distinct types of control variables are included in the analysis. The first is a lagged dependent variable. The standard empirical question in the political control literature derives from its longitudinal designs: Does bureau A change what it is doing at time t (versus $t-1$) after some political activity takes place. This control for history is usually done via either complex ARIMA modeling or by lagging the dependent variable (see Wood and Waterman 1994; Wood 1992). Because we have only nine years of data and thus could not generate ARIMA estimates of any reliability, we include a lagged dependent variable in all models. This procedure gives us a precise estimate of the autoregressive nature of the policy process and provides a fairly stiff test for both political and bureaucratic variables.

The second control variable represents general school district performance. Some Latino students will do better simply because they attend better or more challenging schools. Because Latinos, especially recent immigrants, face a segmented labor market that discourages them from pursuing many professions, the literature also suggests the possibility that the pool of Latino teachers could be more talented than the pool of Anglo or black teachers (Meier, Wrinkle and Polinard 1999). Other studies argue that nondiscriminatory bureaucracies are more likely to be effective simply because they do not consider nonproductive factors such as race, gender or ethnicity (Becker 1993). Both arguments indicate that a control for non-Latino student

¹³The factor scores are not useful for analysis given the list-wise deletion of missing values. The factor analysis as a result is based on less than 4% of the total school districts (those with reportable data on every indicator).

performance might be appropriate, either because Latinos attend better schools or because Latino teachers could be associated with better performance for all students, not just performance by Latino students. For each indicator, therefore, we control for Anglo student performance on the same indicator (that is, for Latino SAT scores we include Anglo SAT scores in the model). This control requires that Latino teachers or school board members affect Latino students over and above the impact that they might have on Anglo students (see Weiher 2000).

The third set of controls are the standard production function variables (Hanushek 1996; Hedges and Greenwald 1996) and can be clustered into two groups: resources and constraints. Bureaucracies cannot influence outcomes without resources. Five resource indicators, all commonly used in education production functions, are included in all models: average teacher salary, per student instructional spending, class size, average years of teacher experience, and percentage of teachers who are not certified (see Burtless 1996). Three measures of constraints include the percentage of African American, Latino and poor students; the last-mentioned is measured by students eligible for free or reduced price school lunches.

Although the production function literature specifies directional hypotheses for each control variable, the actual direction of relationships in this study is not obvious. Because each equation controls for Anglo student performance, these control variables must affect Latino performance over and above their impact on Anglo performance. For teachers' salaries to matter, therefore, better paid teachers would need to benefit Latino students more than they benefit Anglo students. While there is a modest literature on differential impacts (Jencks and Phillips 1998), it indicates little consistency in regard to expectations. The controls should be viewed merely as an effort to make sure key factors are not left out of the model.

Findings

Our logic of analysis is, first, to illustrate the influence of political factors on bureaucratic performance without any consideration of bureaucracy – thus, in effect, replicating the typical approach taken in most earlier work on political control – and then to add the bureaucracy variable, and finally to consider the influence of political appointees and other factors that might influence these results. We do so to illustrate why the literature has found numerous positive results, and then to argue why those results might be less convincing than they have appeared.

The Case for Political “Control”

Political influence over the bureaucracy, some would even suggest political control, is commonly demonstrated by showing that variables representing political factors are correlated with bureaucratic outputs or outcomes. To mimic this argument, nine regressions were run with the full set of control variables and Latino school board membership as the political variable (the bureaucratic variable was not included). The results appear in Tables 2 and 3.

[Tables 2 and 3 about here]

The results suggest a fair amount of political influence on policy outcomes. Eight of the nine relationships are statistically significant and in the predicted direction. Greater Latino school board representation is associated with more Latino students passing the TAAS, attending school, taking advanced classes, taking AP classes, and taking college board tests. Latino representation is also positively related to Latino SAT scores, Latino ACT scores, and high college board scores (above 1110 on the SAT). In one case, passing advanced placement exams, the relationship is negative and significant. While some of the relationships are small, expecting massive impacts from political forces is unrealistic, given that most of the indicators are policy

outcomes rather than policy outputs.¹⁴ That is, for the most part these are not measures of what the bureaucracy does (an exception might be advanced classes and AP classes), but rather measures of actual changes in Latino student performance. Such findings, given the difficulty in influencing such factors (Jencks and Phillips 1998; Burtless 1996), would be considered optimistic in the education policy literature and supportive in the political control literature.

These findings merit additional discussion within the context of the political control literature. The results reported in that literature are not massive – that is, one does not find 180-degree shifts in agency outputs. The influences are primarily incremental in size (although not in direction) and often they die out over a period of time (Wood and Waterman 1994). Given this context, to find significant political relationships for a pool of 1000 agencies over a nine-year period using nine different policy measures that are not easy for policy makers to manipulate, would be considered a substantively significant finding in the literature on political control.

The Limits of Political Influence

As is traditional, Tables 2 and 3 have been interpreted thus far as supportive of claims about political control over bureaucracy. In past studies, these findings would have served as evidence that political principals had made the bureaucracy act in a way that it would not have done in the absence of oversight. Fortunately, the current data set permits us to test this assertion by directly measuring bureaucratic preferences. Table 4 reports abbreviated results for models that involve adding bureaucratic values – the percentage of Latino teachers – to each regression from Tables 2 and 3. The results are stunning. The number of significant relationships for

¹⁴The long-run impacts, however, might be substantial, given that these are autoregressive systems. One can estimate these long term impact by calculating how the coefficient for the lagged dependent variable distributes these political influence impacts over future years.

school board members drops from eight to three (TAAS scores, advanced classes, and taking the college boards); the AP exam pass rate remains statistically significant in the wrong direction. In contrast, all nine relationships for Latino teachers are statistically significant in the predicted direction. What had appeared to be evidence for political control in Tables 2 and 3 now seems to be simply a pattern involving politicians and bureaucrats holding similar values.

[Table 4 about here]

This general summary of statistical comparisons might actually underestimate the contrast between the two lines of influence. Several points support such an interpretation. First, two of the political influences in Table 4 have to do with students taking either AP classes or college board tests; no political influence is evident on how well students perform in class or on these tests, thus suggesting that such indicators could be symbolic not substantive. Given the ability of bureaucracies to manipulate symbolic outputs for political principals (see Bohte and Meier 2000), these influences by school board members might be ephemeral. The bureaucratic influences, in contrast, appear across a wide range of indicators.

Second, in cases where both institutions influence the outcomes, the relative size of the bureaucratic influence is far larger. By measuring Latino school board representation and Latino teacher representation on the same metric, we can conclude that Latino teachers have 4.5 times the impact on Latino students passing the TAAS, four times the impact on taking advanced classes, and 2.5 times the impact on Latino students taking the standardized college admissions examinations than do Latino school board members.

Table 5 examines the relative influence of politicians and bureaucrats in another way. Since the estimates in Table 4 provide independent impacts controlling for the other set of actors,

the Table downplays the total influence and the joint influence that cannot be separated out. Table 5 shows the total influence of both school board members and teachers as well as the percentage of that total influence that remains when one controls for the other set of actors. To illustrate, a one percentage point increase in Latino school board representation is associated with a .059 percentage point increase in the TAAS pass rate but only 31.7 percent of that influence remains when one controls for Latino teachers. For teachers the respective impact is .100 percentage point and 85.6 percent remains after controlling for Latino board members. Even discounting the cases where school board relationships are in the wrong direction, the conclusion from Table 5 is that bureaucratic influence greatly exceeds political influence.

[Table 5 about here]

Third, the bureaucratic (i.e., teacher) relationships are supported by a more convincing causal theory than are the school-board relationships. School board influence on students taking AP classes would almost certainly have to be indirect, by either advocating more funds for such classes or perhaps serving as role models. For the most part, school board members do not come into direct contact with students. Teachers, on the other hand, interact with students on a daily basis. Latino teachers can influence Latino student performance by a) adopting more effective pedagogical techniques, b) providing support and encouragement for students having difficulty, c) advocating changes in school policies, many of which never reach the school board, d) serving as role models, or e) influencing Anglo teachers to change teaching styles.

One other aspect of Table 4 merits discussion: the relationship between Latino school board representation and Latino teacher representation. Advocates of political control might contend that political control is so complete that even the values of professional bureaucrats are

determined by political activity (see for example Wood and Anderson 1993). Such advocates might contend that school boards determine who is hired as teachers; and, therefore, Latino board members hire Latino teachers and should get credit for those relationships as well.

Two flaws mar this argument. First, the strong influence of teachers is apparent over and above any shared influence with school board members. Second, the political control argument assumes that the direction of causality between Latino political representation and Latino bureaucratic representation is solely top down, that is, political representation affects bureaucratic representation but not vice versa. Despite the common nature of this assumption in the urban politics literature (see Mladenka 1989; Eisinger 1982), the only systematic across-time studies to examine these relationships (using Granger causality methods) concluded that the relationships were reciprocal (Meier and Smith 1994; see also Krause 1996). We probed this relationship by conducting panel versions of Granger (1969) causality analysis on three variables – Latino school board members, Latino administrators, and Latino teachers. The Granger equations (not shown) for both two-year and three-year lags show that the relationships flow both ways among all three of these variables. That is, the number of Latinos on the school board was affected by the number of Latinos in administration and on the teaching faculty, and the number of Latinos on the board affected the number of Latino administrators and Latino teachers. Relationships in both directions were strong and approximately the same size. The implication of these Granger causality tests is that the shared variation explained by the school board and the teachers should not be allocated totally to the school board. In short, the school board influence is less than the regression results in Table 4 suggest while the influence of the teachers is greater.

A defender of the political control perspective might still challenge these findings by

arguing that the values of school board members, even Anglo members, might be the reason why some school districts have more Latino teachers and more favorable policies. Although measuring such a hypothetical attitude unrelated to ethnicity would require a massive survey, one can feasibly construct surrogates for such a policy orientation. Presumably school boards favorably disposed to hiring Latino teachers would also be favorably predisposed to hiring Latino administrators. To probe this possibility, we included a measure of Latino administrators in the equations in Table 4, and the results were essentially the same (results not shown). We also attempted to measure policy actions favorable to Latino students by regressing expenditures on bilingual education on the percentage of Latino students diagnosed as “limited English” and the percentage who are low income. Positive residuals in this equation should indicate a preference for spending money to aid Latino students. This measure, when used in the equations of Table 4, had no impact whatsoever on the results (results not shown but available from the authors).

Do Political Appointees Matter?

A common conclusion of the political control literature is that political appointees are a key way to control the bureaucracy. Wood and Waterman (1994) show that specific political appointees were associated with significant shifts in the rate of bureaucratic enforcement during the Reagan administration. Perhaps a similar process works for school districts.

School boards have only a single but important, political appointment, the superintendent. The superintendent is a major influence on school district policies, procedures, and outputs (Zeigler, Kehoe, and Reisman 1985). The relative power of the superintendent in Texas districts and in most others far exceeds that of most federal political appointees. Merit system protections that make it difficult to move civil servants from policy-making positions do not constrain the

actions of superintendents. Central office policy personnel and, in many districts, school principals can be replaced at will. The unions that some believe dominate school policy (Moe 2002; but see Hess 1999) are weak to nonexistent in Texas.

School superintendents also have greater advantages than do federal appointees in overcoming the bureaucracy's information advantages. Unlike most political appointees who have little experience managing complex bureaucracies (Ingraham 1995; Durant 1993) or modest substantive expertise, school superintendents are trained specialists who, in our study, average 24 years of administrative experience in education and seven years in their current job (compared to the average tenure of about 18 months for federal political appointees). Superintendents, as a result, know a considerable amount about what goes on in schools and classrooms.

Given the relative advantages of school superintendents, therefore, we might expect that Latino school superintendents are the key missing link in the principal-agent puzzle. Latino superintendents led 5.5% of the districts in the study (a total of 512 district years). A dummy variable indicating a Latino superintendent was added to the models in Table 4 to provide a relative comparison of the influence of bureaucrats, political appointees, and politicians.

[Table 6 about here]

The results in Table 6 provide little support for the notion that political appointees are a major factor in shaping bureaucratic actions.¹⁵ Only in the symbolic realm of admitting more Latino students in advanced classes and in taking college boards does the presence of a Latino

¹⁵The limited impact of superintendents in the representational function contrasts with their substantial impact in managerial roles (see Meier and O'Toole 2001, 2003; O'Toole and Meier 2003). The present test is restricted to assisting Latino students and doing so with controls for the impact on Anglo students. In a nonrepresentative role, superintendents are likely to increase the performance of both Latino and non-Latino students.

superintendent matter, and that impact is relatively modest (the large coefficients reflect the dummy variable coding). In a third case, ACT scores, the regression coefficient is statistically significant and in the wrong direction. If anything, the influence of the superintendent on these variables appears to matter less than the influence of the school board. In both cases, influence can be characterized as modest at best.

Adding superintendents has little impact on the evidence regarding bureaucratic influence. All nine relationships remain significant, and the magnitudes of the coefficients in Table 6 are similar to those in Table 4. The inclusion of political appointees in the model, therefore, does little to change our earlier findings that bureaucracy and bureaucratic values matter the most in the interaction between bureaucracy and political institutions.

Because part of our argument is that failing to incorporate bureaucratic values can generate misleading results, we replicated Tables 2 and 3 but used the Latino superintendent variable rather than the school board variable. Such an estimation is common in the literature with its focus on political appointees. The notes on the bottom of Table 6 show this estimation generates six (out of nine) significant coefficients in the correct direction. Such an under-specification would thus overestimate the role of political appointees, thereby giving them credit for results that would have occurred in any event.¹⁶

Conclusion

If representativeness, in this case of Latinos, can be considered an appropriate values

¹⁶We do not mean to suggest that political appointees do not matter. They do, but how much they matter depends on a variety of factors. Sometimes these factors include support or acquiescence from careerists such as the movement to market-based policies in the Environmental Protection Agency or the adoption of Chicago School principles in antitrust policy (Eisner 1991).

surrogate for both elected politicians and bureaucrats, the evidence presented in this study is unequivocal. The influence of the bureaucracy trumps that of elected political leaders on a wide range of performance measures. The large-n nature of the design, coupled with the use of appropriate controls and the array of dependent variables examined, provides presumptive evidence for the importance of bureaucracy in shaping outputs and outcomes.

The most obvious conclusion of this investigation is that it is critical to bring the bureaucracy back into the study of “bureaucratic control.” The second, and ultimately more disquieting, conclusion is closely related to the first. If this study had been conducted in the pattern common in the literature on control, possible *spurious relationships* would have been mistaken for evidence of political impact. Tables 2 and 3 suggest as much, and the general disappearance of “political control” in a more fully specified form of the equations in Table 4 raises a concern about the validity of much of the received empirical wisdom accumulated during the last two decades. To the extent that scholars have left bureaucracy on the sidelines in their attempts to explain its actions, earlier findings and apparent theoretical and practical insights should be critically reexamined. The appropriate research designs for exploring this subject must account directly for bureaucratic values and bureaucratic influence.

The findings in this paper should not be surprising. There are solid theoretical reasons to expect bureaucratic perspectives to exert a stronger influence on outputs and outcomes than political perspectives. Analysts since Max Weber (1946) have noted the positional and technical advantages of expert bureaucrats vis-à-vis politicians, and it should come as no shock to see these reflected in shaping performance. In addition, several well-developed literatures have directed extensive attention to this theme and have indicated some of the subtle ways bureaucracy and its

discretionary decision making can influence the results of public programs.

One should be cautious to avoid caricaturing the general theory of political control. Other channels and modes of control are surely plausible. In the empirical portion of this analysis, we explored a few and ultimately rejected each on the basis of the evidence. Latino public-education politicians in Texas do not exert representational *control* once removed, so to speak, by selecting or directing teacher-proxies as agents of school-board advocacy. Nor is a different sort of multi-level principal-agent chain at work: adding school-system superintendents into the picture does not reveal spurious or weakened relationships between bureaucratic values and performance. The evidence supports the claim of bureaucratic influence, even when assessed in light of these alternative causal possibilities.

We have not eliminated all possible principal-agent explanations for the findings presented here, nor do we contend that political leaders are irrelevant. Politicians influence bureaucracy in a wide variety of instances. Control, however, is far too strong a term for the relationship of politicians to bureaucrats. A principal-agent interpretation for these results could be constructed, but it would have to be rather convoluted. We suggest that an explanation rooted in bureaucratic values and influence is more parsimonious, more plausible, and also comports with theory and empirical findings in several related fields. As such, it should be considered as one which future work on political control should confront. Studies built on the assumption of a passive and largely pliant bureaucracy should be treated with skepticism.

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Table 1. A Review of the Literature on Political Control of the Bureaucracy

Citation	Political Variables measuring preferences?	Bureaucratic values?	Bureaucratic variables?	Number of agencies in study?	More than one dependent variable?
Moe 1982	no	no	no	3	yes
Gormley et al. 1983	yes	yes	yes	12/50	yes
Moe 1985	yes	?	no	1	no
Scholz and Wei 1986	no	no	no	1	yes
Wood 1988	no	no	no	1	yes
Wood 1990	yes	no	no	1	yes
Eisner and Meier 1990	yes	yes	yes	1	no
Scholz et al. 1991	yes	no	no	1	yes
Wood and Waterman 1991	yes	no	no	7	yes
Wood and Waterman 1993	yes	no	no	1	yes
Hedge and Scicchitano 1994	yes	no	no	1	no
Ringquist 1995	yes	no	no	1	yes
Sabatier et al 1995	yes	yes	yes	1	yes
Carpenter 1996	yes	?	no	2	yes
Krause 1996	yes	yes	yes	1	yes
Balla 1998	yes	no	no	1	yes
Chaney and Saltzstein 1998	no	yes	yes	145	no
Meier, Polinard, Wrinkle 1999	yes	?	yes	1	yes
Scholz and Wood 1999	yes	?	yes	1	yes
Balla and Wright 2001	yes	no	no	1	no
Mete 2002	yes	no	no	1	yes
Whitford 2002	yes	yes	no	1	yes
Canes-Wrone 2003	yes	no	no	1	no

Table 2. Political Influence on the Bureaucracy:

Without Considering the Bureaucracy

Dependent Variables = Percent Hispanic Students Who					
Independent Variables	Pass Test	Attend Daily	Advanced Classes	Take AP	Pass AP
Political Control					
Latino Board Percent	.058* (6.95)	.003* (5.44)	.055* (7.69)	.036* (3.21)	-.093* (1.96)
Controls					
Lagged Dependent Variable	.423 (47.16)	.579 (70.32)	.251 (23.65)	.331 (13.10)	.445 (9.56)
Anglo Performance	.518 (37.50)	.321 (28.50)	.517 (48.82)	.336 (21.58)	.393 (7.30)
Teacher Salary (000)	.715 (13.84)	.001 (3.21)	-.073 (2.12)	.198 (1.87)	1.865 (2.96)
Instructional \$ (000)	-.179 (0.64)	.046 (2.25)	.204 (0.19)	-.132 (0.30)	-5.630 (1.45)
Black Student %	-.107 (9.53)	-.002 (2.07)	-.054 (5.53)	-.016 (0.91)	-.183 (1.58)
Latino Student %	-.148 (16.05)	-.008 (11.61)	-.074 (9.20)	-.026 (1.72)	.041 (0.40)
Low Income %	.078 (7.65)	.006 (7.39)	.025 (2.71)	-.020 (1.18)	-.053 (0.49)
Class Size	-.187 (2.17)	-.006 (0.89)	.022 (0.27)	-.142 (0.95)	-2.079 (1.86)
Teacher Experience	-.292 (4.76)	-.029 (6.06)	-.140 (2.60)	-.281 (2.82)	-.536 (0.88)
Noncertified Teachers	.050 (2.03)	.006 (3.24)	.090 (3.89)	.022 (0.59)	.235 (0.85)
Adjusted R-squared	.72	.59	.43	.54	.62
Standard error	9.66	0.78	7.41	5.75	14.60
F	1843.72	1026.89	428.44	142.37	47.90
N	7702	7713	6240	1307	317

*p < .05 one tail test

#p < .10 one tail test

directional t-tests are not appropriate for the control variables. Critical values are 1.96 for P <.05 and 1.65 for p < .10

**Table 3. Political Influence on the Bureaucracy II:
Without Considering the Bureaucracy**

Dependent Variables = Percent Hispanic Students Who	Take	SAT	ACT	Above
Independent Variables	Test	Score	Score	1110
Political Control				
Latino Board Percent	.152* (6.92)	.177* (1.95)	.003# (1.56)	.020# (1.62)
Controls				
Lagged Dependent Variable	.329 (18.90)	.271 (10.40)	.216 (9.23)	.193 (8.63)
Anglo Performance	.340 (13.81)	.433 (14.65)	.275 (10.92)	.207 (10.94)
Teacher Salary (000)	-.118 (0.84)	1.513 (2.13)	.016 (1.37)	.413 (4.95)
Instructional \$ (000)	1.815 (1.75)	-1.240 (0.19)	.017 (0.16)	-.541 (0.73)
Black Student %	-.066 (1.96)	-.433 (2.80)	-.009 (2.24)	.010 (0.45)
Latino Student %	-.046 (1.45)	-.332 (2.38)	-.011 (3.75)	.001 (0.05)
Low Income %	-.124 (3.52)	-.661 (4.20)	-.015 (4.55)	-.165 (7.31)
Class Size	.118 (0.37)	-.179 (0.12)	.058 (2.12)	.069 (0.36)
Teacher Experience	-.292 (1.49)	-.753 (0.77)	-.018 (0.90)	-.245 (1.94)
Noncertified Teachers	-.111 (1.21)	.564 (1.17)	.004 (0.38)	.044 (0.70)
Adjusted R-squared	.31	.60	.43	.37
Standard error	15.41	48.24	1.15	8.31
F	109.41	174.07	117.42	107.20
N	2623	1283	1748	1968

*p < .05 one tail test

#p < .10 one tail test

directional t-tests are not appropriate for the control variables. Critical values are 1.96 for P < .05 and 1.65 for p < .10

Table 4. Bureaucratic Impacts Greatly Exceed Political Ones

Dependent Variables	Political Impact		Bureaucratic Impact		Adj	
	Slope	T-Score	Slope	T-score	R2	N
Latino TAAS Pass Rate	.019	1.79*	.086	6.33*	.73	7702
Latino Attendance	-.001	0.91	.009	8.50*	.60	7713
Advanced Classes Rate	.020	2.25*	.080	7.04*	.43	6240
Taking AP Classes	.008	0.60	.072	3.99*	.55	1307
Passing AP Exams	-.133	2.47	.132	1.55#	.62	317
College Test Rate	.081	3.32*	.209	6.16*	.32	2623
SAT Scores	.018	0.18	.673	4.43*	.60	1283
ACT Scores	.001	0.56	.005	1.66*	.42	1748
Above 1110	-.000	0.03	.062	3.17*	.38	1968

All equations control for Anglo performance on the same indicator, a lagged dependent variable, percent state aid, teachers salaries, percent black students, percent Latino students, class size, teacher experience, and percent noncertified teachers.

*p < .05 one tail test

#p < .10 one tail test

Table 5. A Comparison of Direct and Indirect School Board and Teacher Effects

	School Board		Teachers	
	Total	% Direct	Total	% Direct
Latino TAAS Pass Rate	.059	31.7	.100	85.6
Latino Attendance	.0037	0.0*	.0087	106.8
Advanced Classes Rate	.055	35.6	.095	84.4
Taking AP Classes	.0357	22.1	.078	92.8
Passing AP Exams	-.093	NA	.032	414.1
College Test Rate	.152	53.7	.261	80.1
SAT Scores	.177	9.9	.683	98.6
ACT Scores	.0026	41.2	.0056	85.6
Above 1110	.020	0.0*	.0618	99.5

*unique impact is negative

Table 6. Representativeness of Political Appointees Matters Very Little in Bureaucratic Outputs

Dependent Variable	Political		Bureaucratic		Appointee		R2	N
	Slope	t	Slope	t	Slope	t		
TAAS Pass Rate	.019	1.78*	.091	6.16*	-.346	0.53	.73	7677
Attendance	-.001	0.90	.009	7.85*	-.017	0.32	.60	7700
Advanced Classes	.019	2.16*	.072	5.83*	.916	1.70*	.43	6235
Taking AP Classes	.007	0.57	.069	3.49*	.379	0.44	.55	1307
Passing AP Exams	-.136	2.51	.116	1.29#	1.837	0.64	.62	317
College Test Rate	.079	3.22*	.188	5.08*	2.096	1.38#	.32	2623
SAT Scores	.022	0.22	.704	4.35*	-3.088	0.55	.60	1283
ACT Scores	.001	0.67	.006	2.02*	-.149	1.39	.42	1748
Above 1110	.000	0.01	.066	3.10*	-.356	0.44	.38	1968

All equations control for Anglo performance on the same indicator, a lagged dependent variable, percent state aid, teachers salaries, percent black students, percent Latino students, class size, teacher experience, and percent noncertified teachers.

*p < .05 one tail test

#p < .10 one tail test

Note: Appointee slopes when school boards and teachers are omitted from these equations (t-scores in parentheses): TAAS pass rate 2.463 (4.37), attendance .227 (4.94), advanced classes 3.101 (6.56), taking AP classes 2.179 (2.86), passing AP exams 1.487 (0.56), college test rate 7.351 (5.43), SAT 7.154 (1.39), ACT -.033 (0.34), above 1110 .869 (1.19).

Appendix A. Constructing the School Board Ethnicity Measure

To obtain annual data on Latino representation for school districts from 1993-2001 we started with the 1992 Census of Government's survey of school boards. While that survey asked both board size and board member ethnicity, it was the last survey the census conducted on this question (they also did a similar survey in 1987). We obtained the ethnicity of school board membership from the Texas Association of School Boards for 1999. Because those data had several missing cases, we conducted additional phone calls to 300 districts to complete the data set. These two surveys were taken as good data for the 1992 and 1999 school years. We then took the annual compilations of the National Association of Latino Elected Officials (NALEO) to make adjustments. The NALEO data are conceded to contain errors in their counts of elected officials, particularly at the local level, so the NALEO data were not used directly as estimates. As an illustration, in 83 cases NALEO reported more Latinos on the school board than there were school board seats. Rather, when NALEO showed an increase of one (or more) school board members over the previous year, we coded representation in our data set as increasing by one (or more if the numbers increased more). Similar codes were entered for declines. NALEO's data were carefully screened to eliminate cases of double counting (frequently when a seat changed hands, NALEO would include both the old representative and the new representative). These adjustments provided our estimates for school years 1993-98 and 2000-1. In a small number of cases, the percentage of Latino board members exceeded 100% because we could not verify which of the board members were double counted. In those cases, the percentage was coded as 100%. We then further checked this data set for errors by examining outliers, that is, districts that appeared to have too many or too few representatives given their population numbers. This process located three errors made by the U.S. Census (Bosqueville, Rivercrest, and East Bernard were each coded as having seven Latino board members by the Census). We could find no evidence that any of these districts ever had even a single Latino board member and thus recoded them as zero.