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Racial context, the 1968 Wallace vote, and southern presidential dealignment: evidence from North Carolina and elsewhere

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### ntroduction

country) that were unsuitable for cotton and thus had few black slaves. These cal pattern of Republican support in the South was in the areas (often hil and other data disaggregated to the state level, Black and Black (1992) find national level triggered changes in white support for the parties. Using NES of southern support for Democratic presidential candidates over the last franchised in the pre-Voting Rights Act South in those areas with highest participation and socioeconomic factors, finds blacks most likely to be disen black registration as a function of county-specific and state-specific barriers to For example, Alt (1994), in looking at the ratio of southern white to southern the greatest resistance in the areas of greatest black population concentration varied as a function of state and local black population concentration, with also well known that the intensity of resistance to desegregation in the South went for Goldwater were among those with the highest black population. It is were also the areas that tended to vote against secession. The five states that dependent in part on the racial context. Key (1949) reminds us that the historipopulation in a state. Using survey data, for the 1988 election, Glazer, et al dential candidates in elections from 1964 to 1988 is inverse with the black for states in the South, that the mean white vote share of Democratic presi in the racial issue positions of the Democratic and Republican parties at the several decades. For example, Carmines and Stimson (1989) show that changes Edsall, 1991) that race-related issues played a major role in accounting for loss finds strong confirmation for the popularly held view (see, e.g., Edsall and Huckfeldt and Kohfeld (1989), and Black and Black (1992), among others, black population. Recent academic work by Carmines and Stimson (1989) Dukakis and for Jesse Jackson fell inversely with the black population in the (1993) have shown that, across states, the white level of support for Michae There is a good deal of evidence in support of white voting behavior being

state. In his 1988 convention address, Jesse Jackson proudly noted the fact that 36 of 82 county Democratic chairmen in Mississippi were black. Yet Dukakis apparently won fewer white votes in Mississippi than anywhere else. Usually we do not have survey data with a large enough sample reliably to

such that white support for the Democratic national ticket has fallen off from support is directly and clearly related to race in terms of a racial context effect earlier levels as a linear function of the percent black in the geographic unit dates; and that the long-run Democratic decline in southern presidential vote was weakening and who subsequently voted for Republican presidential candiwhose allegiance to the Democratic Party (at least at the presidential level) voting for Wallace appears to have been a way-station for many Democrats nitude of the Wallace vote in 1968 was closely tied to racial context; that on an election-by-election basis. These models are used to show that the mag tions as its dependent variable, rather than looking solely at voting behavior on political choice. One of these is the quadratic contexts effects model of with aggregate-level data that allow us to analyze the impact of racial context purpose of this chapter is to apply two simple models for ecological inference counties whose racial composition (and other characteristics) are known. The ences about contextual effects from election returns aggregated into units like growing black political mobilization. Thus, we often must seek to make inferlinked to racial context. linear ecological regression that uses change in voting behavior across elec-Boudon (1963). This model we use for cross-sectional analysis. The other is a units. And we almost never have data that allow us to study the effects of infer voting patterns broken down by race for relatively small geographic Thus, both the 1968 Wallace vote and subsequent Democratic decline are Usually we do not have survey data with a large enough sample reliably to

### The Wallace vote

The focus of this section is on the Wallace vote. It is well known that the Wallace vote was related to black population proportion in both the state and the county (Wright, 1976, 1977).<sup>2</sup> It is known, too, from 1972 survey data, that when voters were asked both how they voted in 1972 and how they had voted in 1968, a very high proportion of Wallace voters (roughly three-quarters) said that they had voted for Richard Nixon in 1972 (Martin Wattenberg, personal communication, 9 May 1993). Furthermore, it is often asserted that Wallace voters defected to the Republican Party in subsequent presidential elections. However, as far as we are aware, there has been no real hard evidence for this latter assertion beyond the 1972 election. We provide new evidence both about racial context effects in the 1968 presidential election and about the link between sectional realignment and the Wallace vote in subsequent presidential elections, to test the hypothesis that voting for Wallace was a way-station for many Democrats whose allegiance to the Democratic Party (at least at the

presidential level) was weakening, and who subsequently voted for Republican presidential candidates.

If there is a contextual effect such that white support for Wallace increases with the percent black in the geographic area, the aggregate ecological relationship between percent black and Wallace vote will not be linear. We may illustrate this point by letting the contextual relationship between white support for Wallace and black population proportion be (approximately) linear, while positing that black support for the Democratic nominee is (approximately) constant. The model we offer is a variant on one proposed in Miller (1977).<sup>4</sup>

We can represent these assumptions in the two equations below:

$$W_{\text{WALL}} = m_1 B_{\text{POP}} + \text{constant}_1 \tag{8.1}$$

$$t_{ALL} = constant_2$$
 (8.2)

where

 $W_{\text{WALL}}$  = the proportion of whites who vote for Wallace  $B_{\text{WALL}}$  = the proportion of blacks who vote for Wallace  $B_{\text{POP}}$  = the black population proportion in the geographic unit (e.g. state/county).

For simplicity, let us confine ourselves to a black and white world, i.e.

$$W_{\text{POP}} = 1 - B_{\text{POP}}$$

(8.3)

We have the identity

WALLACE VOTESHARE = 
$$W_{\text{WALL}} W_{\text{POP}} + B_{\text{WALL}} B_{\text{POP}}$$
 (8.4)

For notational simplicity, let constant<sub>1</sub> =  $c_1$  and constant<sub>2</sub> =  $c_2$ . If the four equations above hold, then we have

WALLACE VOTESHARE = 
$$-m_1(B_{POP})^2 + (m_1 + c_2)B_{POP} + c_1$$
. (8.5)

Hence, under our simplifying assumptions, we anticipate a quadratic relationship between Wallace vote share and proportion black in the area.

Moreover, if we let  $B_{POP} = x$ , and WALLACE VOTESHARE = y, we may use the data from the fitted quadratic

$$y = a_1 x^2 + a_2 x + a_3 (8.6)$$

to estimate the key parameters of interest:

$$-m_1 = a_1$$

$$c_2 = a_3$$

$$c_1 = a_1 + a_2 + a_3$$
(8.7)

Thus, the estimated black support for Wallace is given by  $a_3$ , while the estimated white support for Wallace in an all-white area is given by  $a_2$ , and the

estimated white support for Wallace in an area with a black population of x is given by  $-a_1x + a_3$ .

Using this model, we now look at the relationship between the Wallace vote and racial context using ecological regression, rather than individual-level survey data such as that used by Wright (1976,1977).

# Wallace and the racial context effect: estimating the quadratic model with North Carolina county-level data

our aim of making use of aggregate-level data to study racial effects. When we as a sign of a positive relationship at the level of individual behavior not to misinterpret a positive correlation obtained in an ecological regression ecological regression with states as our units, the Wallace vote appears to rise state-level data to estimate our quadratic context effects model. When we do tual effects model. independent variable to permit us to estimate the proposed quadratic contex-North Carolina does have a wide enough range in both the dependent and the look at data from the South disaggregated to the county level, a state like (Robinson, 1950). However, such a finding does not mean we should give up effect of increasing white support for Wallace as the black population grows. weigh the gains in Wallace vote that occur as a result of the large context because there are no states with a black population sufficiently large to outwith the black population in the state - a nonsensical result that occurs black) when we look at data at the level of whole states, it is impossible to use Because there is not adequate variation in the independent variable (percent This reminds us that, in looking at ecological correlations, we must be careful

When we run the 1968 Wallace vote versus black population at the county level in North Carolina, the linear fit  $(y = 0.21 + 0.55x, r^2 = 0.56)$  shows Wallace vote rising with black population, with an all-black area estimated to give three-quarters of its votes to George Wallace – a result that again makes no empirical sense.<sup>5</sup> Again, rather than discouraging us, we should simply think about what we ought to expect the data to look like. The quadratic regression, in contrast, gives us the more intelligible expectation of a fall-off in Wallace support in the most heavily black areas because the  $x^2$  coefficient is negative and large relative to the coefficient on  $x(y = -1.45x^2 + 1.29x + 0.16)$ . The  $r^2$  value for the quadratic using black population as the independent variable is 0.66, a correlation that is considerably higher than the corresponding linear correlation (0.56); moreover both the x and the  $x^2$  coefficient are statistically significant at the 0.0001 level.

In North Carolina in 1968, the blacker the population in the county, the higher the Wallace vote – until we get to counties that are considerably close to majority black. From this quadratic regression, we would estimate black support for Wallace as zero (-1.45 + 1.29 + 0.16). White support for Wallace

is estimated to be 16 percent in all-white areas and to rise to a high of 100 percent in the most heavily black areas  $(0.6 \times 1.45 + 0.16 = 1.03)$ .

Wallace as a way-station: from voting for Wallace in 1968 to voting Republican in subsequent presidential elections

### State-level data

At the state level, support for the Democratic presidential nominee in any given election varies with the Wallace vote in a direction that seems plausible. For elections between the New Deal and the election in 1960, except for the election of 1948, the Democratic vote share is positively (and generally quite strongly) correlated with the Wallace vote, i.e. Wallace was strong in states where Democrats had traditionally been strong. However, in elections from 1968 to 1988, except when Carter was running (when the correlations were positive but not statistically significant), there was a negative correlation between the Wallace vote and Democratic vote share – albeit generally a small one with a small slope parameter (with  $r^2$  values of 0.03 in 1984, 0.15 in 1988, and 0.36 in 1972).

But we can learn considerably more about the geographic link between the Wallace vote and post-1968 Democratic dealignment by looking at changes over time. Here we find a striking loss in support for Democratic presidential nominees since 1960<sup>7</sup> in the areas where Wallace did best. For example, when we look at the difference in Democratic vote share in 1988 as opposed to 1960 plotted against the Wallace vote, we obtain the equation

# (88-60) DEMVOTESHARE = -0.34 WALLACEVOTESHARE + 0.78

This equation, with an  $r^2$  of 0.50, shows that, at the state level, we find a context effect such that, for roughly every percentage point in Wallace vote in 1968, a state experiences a one-third of a percentage point decline in Democratic presidential percentage between the elections of 1960 and 1988. Of course, the racial context effect observed at the state level is not the same as what we find at lower levels of geographic aggregation. As we show below, within a given state, the decline in Democratic vote share can be even more closely tied to the Wallace vote.

### North Carolina county data

In elections since 1968, at the county level in North Carolina, unlike the state-level pattern described above, Democratic vote share in subsequent individual presidential elections is always positively correlated with the Wallace vote.<sup>8</sup>

example, when we look at the difference in Democratic vote share in 1984 as white Democratic presidential support as a function of Wallace support. For Here, as expected, we observe a strong pattern of decline from earlier levels of opposed to 1960 plotted against the Wallace vote, we obtain the equation Wallace vote comes when we look at changes in voting behavior over time.9 However, as with the state-level data, our real insight into the impact of the

# (84-60) DEMVOTESHARE = -0.75 WALLACEVOTESHARE + 0.073

Kennedy in 1960.10 we might call Wallace-type) voters who voted for Reagan in 1984 but strength between 1960 and 1984 can be attributed to Wallace (or at least, what almost all of the gain in North Carolina in Republican presidential voting and 1984 for every percentage point of Wallace vote in 1968. It suggests that Carolina counties dropped three-quarters of a percentage point between 1960 This equation, with an  $r^2$  of 0.68, shows that Democratic vote share in North

white Democrats in them have changed in their presidential voting behavior. 11 greater numbers than ever. Thus, if heavily Democratic counties where dential ticket. Indeed, they are more loyal Democrats then ever, and voting in is not the blacks in these areas who are now deserting the Democratic presiwas strongest in the heavily black areas of the state and we can be sure that if to Wallace (or Wallace-type) voters - as we showed earlier the Wallace vote not a fallacy of ecological inference to attribute gains in Republican strength Wallace did well have shifted in a Republican direction, it must be because the When we look at county-level data for North Carolina, we believe that it is

### over time using aggregate data Tracking the decline in Democratic presidential support

support levels that have taken place over the past decades compared to preelection across a set of geographic areas, we miss the dramatic changes in election or, if it does look at multiple elections, it does so only in terms of stand the effect of race on voting patterns is that it is drawn from a single effects. In particular, as suggested by the analysis of the Wallace vote above, if data in a cross-sectional framework of analysis fails to capture important A fundamental limitation of the type of data customarily analyzed to underdata. 12 To compensate for this problem, we again generate regressions that vious levels of Democratic support in those geographic units, and (perhaps most we focus on present levels of support for Democratic candidates in any given analyzed as if they were cross-sectional). For aggregate data, looking only at presenting a set of cross-sectional analyses (or by using pooled data that are relate changes in Democratic presidential vote to black population proportion lation percentages. The same problem remains if we use pooled cross-sectional importantly) we miss the way in which those changes are tied to black popu-

for a variety of periods across which we expect historical patterns of decline to manifest themselves: for example, 1900 to 1964, 1940 to 1964, 1960 to 1964, 1900 to 1968, 1940 to 1968, 1900 to 1984, 1940 to 1984, or 1960 to 1984. Now, however, rather than using the Wallace vote as our independent variable, we use black population percentage.

### State-level analysis

(1950): namely, distrust ecological correlations. seem that this pattern simply reinforces what we learned from Robinsor Since we know that blacks are, in fact, voting overwhelmingly for Democratic century, the correlations are quite high. Even as late as 1980 the  $r^2$  is  $\epsilon$ and 1980), and near zero and not statistically significant in 1968, 1984 and relationship between proportion black and Democratic levels of support in units, in the twentieth century we find that, prior to 1964, there is a positive ments, even though blacks were almost entirely excluded from voting, it migh the bedrock of Democratic support in the New Deal (and Civil War) realign nominees, and we also know that states with high black proportions formed has declined to 0.01 and 0.07, respectively, and is not statistically significant. 14 respectable 0.25. But when we reach 1984 and 1988, the  $r^2$  for this relationship Democratic success has been declining. In the early years of the twentieth tistically significant) in the years when Carter is the Democratic nominee (1976 are negative (and statistically significant) in 1964 and 1972, positive (and staevery year except 1948; while in the elections from 1964 to 1988, correlations If we look at individual presidential elections using states as our geographic 1988. In general, the correspondence between percent black in the state and

Yet we would draw a quite different conclusion. We would conclude that the more heavily black the state, the greater the white flight from the Democratic presidential ticket relative to earlier levels of support. As argued earlier, a better way to understand the contextual effect of black population on voting for Democratic presidential nominees is to look at *changes* in voting as a function of racial context, rather than at the relationship between racial composition and the voting patterns in individual elections.

When we take this approach, at the state level, we find that the more black the population of the state, the greater the historical decline in Democratic share of the two-party presidential vote in the state. The correlations are quite strong:  $r^2 = 0.42$  for 64-00;  $r^2 = 0.58$  for 64-40;  $r^2 = 0.47$  for 88-00;  $r^2 = 0.52$  for 88-40; and  $r^2 = 0.39$  for 88-60. For the 1988-60 period, the slope of the regression is around -0.5; thus, for example, the white Democratic vote is estimated to have fallen 15 percentage points more from its 1960 levels in jurisdictions that are 30 percent black than in jurisdictions with no blacks, despite the fact that blacks in the latter jurisdiction are a considerably higher proportion of the voters in 1988 than in 1960, and they now vote at somewhat higher rates for the Democratic candidate than they did in 1960.

Visual inspection of the scattergrams suggests that the effect is strongest in states with above 15 percent black population, but it is not merely a southern phenomenon per se. Moreover, even among southern states, the magnitude of the effect varies as a function of how black the state is. <sup>16</sup>

### County-level data from North Carolina

We now look at the historical decline in Democratic share of the presidential two-party vote at the county level within a single southern state with a wide range in the black population proportion in its 100 counties: North Carolina.<sup>17</sup> There is no good reason to expect that the link between black population proportion and Democratic vote will be the same when we look at within-county variations in North Carolina as when we use states as our units of aggregation (Robinson, 1950). If we look at individual presidential elections, for North Carolina counties, there is a positive and strong relationship between percent black and support for the Democratic presidential nominee in every election since 1960, even in 1968.<sup>18</sup> Looking at the cross-sectional correlation gives us no clue as to the presence of a racial context effect.

Yet, if we look across elections in North Carolina, we see that the blacker the county, the greater is the historical decline in support for the Democratic nominee. For the period 64-60 the decline in Democratic presidential support in North Carolina counties with respect to black registration proportion has an  $r^2$  value of 0.65 and a slope of -0.62. For the period 80-60 the  $r^2$  value is 0.31, and the slope is -0.40. For the 84-60 period we obtain an  $r^2$  of 0.30, with a slope of -0.46.

#### Discussion

Our emphasis on data from relatively small units of aggregation exhibiting a considerable range of variation in both the dependent and independent variable, our use of a quadratic context effects model, and our emphasis on changes in voting behavior over time allow us to avoid two common mistakes in ecological inference: estimating a non-linear relationship over a data range in which the non-linearities cannot be detected, and failing to detect long-run trends because of a reliance on cross-sectional or pooled-data methods.

We show that Wallace support in 1968 prefigures subsequent drop-off in Democratic presidential support from its pre-1968 levels, and is a harbinger of the geographic patterns of voting that have subsequently characterized US presidential elections (e.g. in 1984 or 1988). This evidence strongly suggests that Wallace voters subsequently regularly deserted the Democratic Party's presidential ticket to vote for Republican nominees, especially when a southerner was not the head of the Democratic ticket. The George Wallace of 1968 is not someone whom today's Republican Party wishes to claim as a spiritual forefather. Yet, the aggregate data analysis above suggests that voting

for Wallace was, for many white Democrats, especially in the South, a waystation on the road to voting Republican at the presidential level.

We also reaffirm the close light between the Well-

BIWO – blacks in, whites out (cf. Huckfeldt and Kohfeld, 1989). to understand what has been happening to the Democrat voting in the South Republican candidate. For presidential politics, this leads us to a simple rule whites toward the Republican Party in jurisdictions where there is a viable control of the local Democratic Party in heavily black areas). This pushes political strength and in black Democratic support levels give blacks greater rates in the South have been equalizing with those of whites, and since 1964 underlies the above findings is straightforward. Black political participation ment at the level of presidential voting is a controversial one. We believe the areas of previously high Democratic support have shifted to voting for Repuband for North Carolina, in the county. Essentially, the greater the black popushow how the historical decline in Democratic presidential vote share since at both the state and the county level. Similarly, using aggregate data, we influence in the Democratic Party at all levels of government (perhaps even blacks vote overwhelmingly for Democratic candidates. Increases in black the conclusion that the link is a strong one. The probable mechanism that data we have shown, especially those for North Carolina, strongly argue for lican candidates for president. 19 The link between race and southern dealignlation in a geographic area, the greater is the extent to which white voters in 1960 is inversely associated with the size of the black population in the state We also reaffirm the close link between the Wallace vote and racial context

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#### Notes

1. Glazer et al. (1993) find similar effects in the nation as a whole for the 1988 presidential election using ABC exit poll data. For the 48 states for which they have

ranged from 34 percent in Arkansas and Tennessee to 43 percent in Kentucky, averagranged from 21 percent in Mississippi to 35 percent in North Carolina, averaging with a slope of -0.58 ( $r^2 = 0.47$ ). When they look only at states with above 12 percent the 1988 presidential election fell off linearly with the percentage black in the state percent; while in seven outer southern and border states, white support for Dukakis Mississippi, North Carolina, South Carolina, and Virginia, white support for Dukakis black population, they find an  $r^2 = 0.74$  and the estimated slope of the relationship ABC exit poll data broken down by race, the white vote going to Michael Dukakis in ing 37 percent; moreover, outside the South, there are few states where white support for Dukakis was below 40 percent, and most of these were states like New Jersey and increases. We find that, in the heavily black states of Alabama, Georgia, Louisiana. Illinois with substantial black populations.

See also Black and Black (1973) for analysis of the Wallace vote in Alabama in 1968, and Wrinkle and Polinard (1973) for analysis of the Wallace vote in Texas.

controlling (Keech, 1968; Grofman et al., 1992). 3. Similarly, in looking at the effects of minority population proportion on congressional liberalism, a linear model may misspecify the nature of the relationship, by sional interaitsm, a linear model may misspecify the nature of the relationship, by missing evidence for a curvilinear pattern suggestive of racial backlash at levels of black population sufficient to be threatening to whites, but not large enough to

Grofman (1987). The model above is similar to those in Huckfeldt and Kohfeld (1989) directly. and Glazer et al. (1993), but it is conceptually simpler and somewhat easier to test 4. It was apparently first proposed by Boudon (1963). See also Sprague (1976) and

5. Cf. Schoenberger and Segal (1971).

suggest. A quadratic regression run with 1980 black registration gives us an  $r^2$  of 0.56, but parameters that are less clearly interpretable ( $y = 0.171 + 3.303.x - 4.193x^2$ ). We counties in North Carolina in 1968, this is almost certainly somewhat of an overestimate, since white registration share was higher than white population share would did not have earlier registration data by race. 6. Because black registration was quite low in the mostly rural majority black

of the New Deal coalition) or even 1900 (when the Civil War coalition was still reasonof using 1960 as our baseline from which to measure change, we use 1940 (the heyday However, we get essentially identical patterns (and very similar correlations) if, instead 7. We may take 1960 to be the last hurrah of the traditional Democratic coalition

ably intact).

8. Correlations between the Wallace vote percentage and Democratic vote share in North Carolina counties range from 0.12 to 0.28 for the years from 1972 to 1984, with population) who historically had been very likely to vote for Democratic presidential positive slopes from 0.28 to 0.40. Even in 1968 there was a minuscule positive correfor his support on voters (especially those in counties with substantial black North Carolina. It is important to realize that Wallace was drawing disproportionately likely to be concentrated. lation between the Wallace vote share and that of Humphrey in the 100 counties of . Thus the areas with high Wallace vote are also areas where Democrats are

the Wallace vote better predicts post-1968 Republican gains relative to 1960 Republican vote share than does the Goldwater vote. 9. We might also note that, at both the state and the county level for North Carolina,

voting, and those who would have been Wallace voters had they been voting in 1968. Obviously, some Wallace voters had died or were no longer politically active in elec-10. By 'Wallace-type' voters we mean those who actually voted for Wallace and are still

individual level, given the change in the electorate over time, may simply take our tions subsequent to 1968. Similarly, some had not voted in 1960. results to show that the areas where white voters voted for Wallace are the ones where 11. Alternatively, readers who are uncomfortable with ecological inferences at the

present-day white voters are voting Republican in much greater proportions than their predecessors did.

12. We would emphasize, however, that similar problems arise even were we to have survey data on individuals as long as we confine ourselves to a cross-sectional form of analysis.

13. We provide these time points as illustrative so as to develop contrasts between the Civil War pattern visible in 1900, the New Deal pattern visible in 1940 and the pre-Civil Rights Act of 1964/pre-Voting Rights Act of 1965 pattern still visible in 1960, with the Goldwater pattern in 1964, the Wallace pattern in 1968 and the Reagan pattern in 1984.

4. The correlations are with the 1980 black population in the state

15. Note that, because we are using a change variable as our independent variable, our expectation is that the effect will be a linear one rather than quadratic.

16. For only the states with above 15 percent black, the correlations are virtually identical: 0.44, 0.61, 0.53, 0.48 and 0.51 for 64-00, 64-40, 88-00, 88-40 and 88-60 respectively; and the slopes are even steeper.

17. Very few previous authors have looked at within-state context effects on presidential voting at the county level (see, however, Black and Black, 1973; Wright 1977; Alt, 1994).

18. For example, in 1960 the correlation is 0.72 with a positive slope of 0.81; in 1964 it is 0.45 with a positive slope of 0.39; in 1968 it is 0.29 with a positive slope of 0.24; in 1980 it is 0.53 with a positive slope of 0.45, and in 1984 it is 0.51 with a positive slope of 0.45.

19. While it might be said that the counties in North Carolina where Wallace was strongest are areas which are highly conservative as well as being highly black, somehow to regard that conservatism as a fact independent of the historical racial context seems to us to be missing a critical causal arrow. We would also emphasize that, since 1968, no Democratic presidential nominee (not even a southern one) has received a majority of the white vote.

#### References

Alt, J., 1994, 'Voter Registration in the Pre-Voting Rights Act South', in Davidson, C. and Grofman, B. (Eds.), Quiet Revolution: The Impact of the Voting Rights Act in the South, 1965-1990. Princeton, NJ: Princeton University Press.

Black, E. and Black M., 1973, 'The Wallace Vote in Alabama: A Multiple Regression Analysis', Journal of Politics, 35, 3, 730-6.

Black, E. and Black M., 1992, The Vital South: How Presidents are Elected, Cambridge MA: Harvard University Press.

Boudon, R., 1963, 'Propriétés individuelle et propriétés collective: Une problème d'analyse écologique', Revue Française de Sociologie, 7, 275-99.

Carmines, E. G. and Stimson, J. A., 1989a, 'Issue Evolution, Population Replacement, and Normal Partisan Change', American Political Science Review, 75, 107-18.

Carmines, E. G. and Stimson, J. A., 1989b, Issue Evolution: Race and the Transformation of American Politics, Princeton, NJ: Princeton University Press.

Edsall, T. and Edsall, M., 1991, Chain Reaction: The Impact of Race, Rights, and Taxes on American Politics, New York: Norton.

Glazer, A., Grofman, B. and Owen, G., 1993, 'Models of Group-Oriented Voting', paper presented at the Annual Meeting of the Public Choice Society, New Orleans, 19-21 March.

Grofman, B., Griffin, R. and Glazer, A., 1992, 'The Effects of Black Population on Electing Democrats and Liberals to the House of Representatives', Legislative Studies Quarterly, 17, 3, 365-79.

Huckfeldt, R. R. and Kohfeld, C., 1989, Race and the Decline of Class in American

Politics, Champaign, IL: University of Illinois Press.

Keech, W. R., 1968, The Impact of Negro Voting: The Role of Vote in the Quest for Equality, Chicago, IL: Rand McNally.

Key, V. O., Jr., 1949, Southern Politics, New York: Vintage.

Miller, W. E., 1977, Electoral Dynamics in Britain Since 1918, London: Macmillan.

Robinson, W. S., 1950, 'Ecological Correlations and the Behaviour of Individuals',

American Sociological Review, 5, 351-57.

Schoenberger, R. A. and Segal, D. R., 1971, 'The Ecology of Dissent: The Southern Wallace Vote in 1968', Midwest Journal of Political Science, 15, August, 583-6.

Sprague, J., 1976, 'Estimating a Boudon Type Contextual Model: Some Practical and

Theoretical Problems of Measurement, Political Methodology, 3, 3, 333-54.
Wright, G. C., 1976, 'Community Structure and Voting in the South', Public Opinion Quarterly, 40, Summer, 201-15.
Wright, G. C., 1977, 'Contextual Models of Electoral Behavior: The Southern Wallace Vote', American Political Science Review, 71, 2, 497-508.

Wrinkle, R. D. and Polinard, J. L., 1973, 'Populism and Dissent: The Wallace Vote in Texas', Social Science Quarterly, 54, 306-20.