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ABSTRACT.

This paper reports work in progress concerning student desegregation among elementary and secondary schools in districts regardless of the source of segregation, and between school districts for the period of 1968-73. The data sources, the statistical reports collected by DHEW, are stated to allow for a detailed statistical analysis of the status and trends in school segregation by race throughout the U.S. First; the state of racial integration among schools within a district in 1968 is examined, followed by an examination of the changes that occurred over the period 1968-1973. The differential changes that occurred over that period of time in different kinds of school settings -- in different regions of the country, in school districts of different sizes, and in particular large cities is seen to be of special interest. Data indicate that, by 1968, desegregation of schools was a far from accomplished task in cities and towns of all sizes in the South, but that in the largest cities, it was equally high in many places where dual school systems had never existed: yet the trend for the next four years tends toward desegregation. It is concluded (1) that the emerging problem with regard to school desegregation is the problem of segregation between central city and suburbs, and (2) that current means by which schools are being desegregated are intensifying, rather than reducing the problem. (Author/AM)

Trends in School Segregation, 1968-73

James S. Coleman Sara D. Kelly John A. Moore

722-03-01 August, 1975

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TRENDS IN SCHOOL SEGREGATION, 1968-73

by James S. Coleman Sara D. Kelly John A. Moore

Urban Institute Paper 722-03-01

ERRATA AND MODIFIED CALCULATIONS

After this report was printed, we discovered some errors and some places where procedures used may have introduced a bias. We have recalculated results that might have been affected by these, correcting errors and using procedures which should eliminate the bias. The resulting changes affect some numbers in the text and tables, but with one exception, noted below, do not affect the general conclusions of the report. The modifications arise from sources as indicated below, with effects as noted.

In the analysis of segregation at elementary and secondary levels, it was originally decided, as explained in footnote 12, page 21, to measure segregation at elementary levels by including all schools containing a sixth grade and to measure segregation at secondary levels by including all schools containing a tenth grade. This was done for reasons described in footnote 12, page 21.

This, as it turned out, was not a wise decision. A number of school systems, particularly those undergoing desegregation of some sort, reorganized their schools to cover different grade spans, or in some cases, to become ungraded where the school had before been a graded school. This reorganization meant that for elementary/secondary analysis, different fractions of the students in the system and different fractions of the schools in the system were included in different years, in general a smaller fraction of the schools in later years because of the conversion from graded to ungraded schools, and the reduction in grade spans. Reorganization was primarily at the elementary level. For example, in 1968 the OCR data show that Dallas had 125 schools containing a sixth grade, 5 graded elementary schools ending below grade six, and 2 ungraded schools. In 1970 this was 123 with a sixth grade, 13 graded

ending below grade six and 1 ungraded. In 1972, the numbers were 109, 29, and 9. Thus in the later years, a larger number of elementary schools was excluded for being ungraded or failing to contain grade six.

In modifying the analysis, it was evident that because of school reorganization, no procedure for including a school in the elementary school sample or in the secondary school sample would be fully satisfactory. The procedure used for the modified calculations contained here was to classify any school as a secondary school if it included a grade 9, 10, 11, or 12. All other schools were classified as elementary. Inspection of a number of systems which had undergone some reorganization indicated that this procedure would give fewest misclassifications that might result in bias and that the amount of misclassification was very small.

The effects of the revised procedure are given below:

- la: On page 22, the numbers in Table 5 change as indicated in the attached revised Table 5. The revisions change no substantive conclusions, and lead to only minor rewording on page 21 where the table is described.
- 1b: On pages 34, 35, and 36, Table 9, Figure 3 and Figure 4 change as indicated in the attached. The substantive conclusions on page 34 about change at the two levels are modified slightly.

 In the U.S. as a whole, the reduction in segregation was greater at the secondary level, rather than equal to that in elementary, as stated there. But as described in the original text, there are opposite differences in different regions, with greater desegregation occurring in the secondary schools than in the elementary in the South, but greater resegregation occurring in secondary schools in the North.

Ic: On page 47, Table 12 changes as shown in attached revised Table 12.

The conclusions on page 48 are affected somewhat. It is no longer the case that in the 3 regions where within-district segregation was most reduced, between-district segregation increased more at the elementary level. Thus the suggestion cannot be made here that the movement of white families from a district in response to desegregation appears to be greater at the elementary level.

On pages 77 and 78 are described the results of analyses at elementary and secondary levels. This analysis must be deleted. eliminating any conclusions about the relative loss of whites at elementary and secondary levels. This is the one most important change affecting a general conclusion of the report. That is, result number 10 on page 79 must be deleted. A comparable analysis has not yet been carried out for elementary and secondary as redefined, so the question of relative loss raised in that section cannot yet be answered. An attempt was made to get some idea about the answer to this question by examining white losses in the year of desegregation in schools with a grade ten and those without in cities listed on pages 62 as having undergone a drop of more than .1 in segregation in any one year. This gave an average loss of 14% of whites at secondary school and 13% at elementary (with 14% for all schools). There was greater loss in 5 of the 9 instances at secondary school and at 4 of the 9 in elementary school. From this analysis it would appear that the losses were about the same. However, this cannot be inferred because in general, desegregation was greater at secondary In some cities, desegregation occurred primarily at one or

the other level (e.g., in Dallas in 1971, primarily at the secondary level and in San Francisco in 1971, at the elementary level). Thus the question must be left open.

2. Several modifications have been made affecting the analysis of the size of individual segregating responses to desegregation, the section on pages 53-80. In general the effects of these modifications are minor, but the earlier calculations did contain sources of bias or error, so that the recalculations are included here, even when they make little difference in overall interpretation.

The first modification has to do with eliminating schools with no teachers reported: For 1968-72 OCR obtained information on race of teachers, and we included that in basic calculations of segregation though none of those results are included in the report. When a school gave no report of teachers, the school was eliminated from the analysis for that year. (Schools were not identifiable from year to year, so that meant elimination only for that year). This failure to report teachers was very infrequent except in the case of a few districts, such as Los Angeles and Greenville, S.C., which gave no teacher reports in 1969, and thus were eliminated from the analysis for that year. This procedure would not in and of itself affect the analysis except that in 1973 OCR no. longer obtained information on race of teachers so that all schools were included in our analysis in 1973. Because this meant we used a slightly different procedure for retrieving information in 1968-72 and in 1973, it could lead to possible biases in the result. Because the difference was very slight, the measures of changes in segregation were essentially unaffected. But the analysis of white loss upon desegregation might be affected so those analyses were recalculated. The effects on the results are indicated below. However, first, two other changes should be noted:

It was learned that the OCR data on Tucson, one of the next 47 cities after the largest 23, showed a combined elementary/secondary district in 1968 and 1969, and separate elementary and secondary districts in subsequent years. (There are in fact two separate districts, but governed under a single school board.) Because of this change in reporting, Tucson was eliminated in the modified calculations. (The "next 46" designation, however, is correct for the modified calculations, because the designation should have been "next 47" with Tucson, since Albuquerque from the first 23 replaced Richmond. See footnotes 22 and 23 on page 56).

An error was made in the lagged equations for 71-73 and 72-73 reported in Table 15. Although this did not affect conclusions drawn from the table, it les, along with the changes discussed above, affect the calculations.

The effects of these changes are given below:

Table 14 is changed as attached. The general effect of the changes is rather small, and will be described in discussion of the text on pages 60-65, which elaborates those tables.

The effects shown in the simple equation, Equation 1 in Table 14, described on pages 60-61, change little, with a very slight increase in estimated white loss with a .2 reduction in segregation for the largest 21 (from 5.5% to 5.6%) and a decrease from 1.8% to 1.1% for the next 46. The greater changes for the next 46 cities in these modified calculations than for the largest 21 is due to the exclusion of Tucson and the inclusion of 1969 data for Greenville, S.C. (the year before desegregation took place).

For Equation 2, discussed on page 63, the changes are slightly greater.

For the largest 21, the loss becomes 6.8% for South and 4.0% for North (from 6.8% and 3.9%, only 0.1% in the North). For the next 46, the loss becomes 4.8% for South and no reliable estimate possible for the North, replacing 2.6% for



South and 0.2% for North. The absence of a reliable estimate for the North for the next 46 results from the fact that nearly all desegregation occurred in the South, resulting in a correlation of .98 between R and R x South. (See again footnote 26 on page 65.)

The fact that the loss for the next 46 (in the South) as estimated by Equation 2 and Equation 3 is so much greater than as estimated by Equation 1 results from the inclusion in Equation 2 and Equation 3 of the between-district segregation. This is especially low in some desegregating districts in the South, thus depressing the white loss in those cities.

On page 64, there are changes of 0.1% in numbers in the tabulation, with no changes in interpretation. On page 64, the revised calculations from Equation 3 (see attached) shows somewhat stronger effects of desegregation on white loss than before for the smaller cities and stronger intensification of the desegregation loss with increase in proportion black and between-district segregation.

Revised calculations for Table 15 are attached with no changes in interpretations resulting. Similarly on page 71 there are numerical changes which
do not change interpretation (see attached).

Table 17 on page 72 changes as indicated in the attached. As pointed out in the footnote to the revised table, the estimated gains for Houston and Denver are very likely spurious due to territory annexed during the period of desegregation. Table 17 should, however, be taken with some caution as providing accurate estimates for individual cities because the high degree of multicollinearity creates some instability in estimates as described in foot note 26, page 65.

A strong caveat about the projected long-term effects as estimated on pages 74-75 should be added. These estimates must be regarded as conservative estimates of the effect of desegregation, because of the assumption, based on



u

weak evidence, that the direct effect of desegregation on white loss is a onetime effect which does not continue beyond the year of desegregation. The
experience is not sufficient for strong inferences. However, examination of
the losses in particular cities where desegregation occurred at a clear-cut.
point suggests the possibility of a continuing effect not shown by Table 15.
For example, in Dallas, where the effect of desegregation in 1971 was not
particularly strong (an increase in loss from 3% in 1970 to 8% in 1971) the
subsequent years showed losses comparable to that of 1971 (9% and 7%, and data
for 1974 not contained in the OCR data shows a loss of 9%). In Denver there was
a steady growth in loss after the point of greatest reduction in segregation
(1969) from 2% to 7%. But in general, there are simply not enough data. What
is important to note, however, is that a small but continuing increment in
white loss can have a much greater effect than the one-time loss. Thus the
estimates of long-term impact of desegreation on pages 74 and 75 may be
serious underestimates.

The modified procedures described above lead also to changes in the tabulations for the largest central city districts in Appendix 3 with minor changes for all schools and major changes for the separate elementary and secondary schools. Revised Appendix 3 may be obtained from The Urban Institute upon request.

TEXTUAL REVISIONS

Page 21, 1ine 4:

"As the table shows, elementary schools are more segregated than high schools, in every region except the Southeast where within-district segregation at the two levels is the same."

Page 21, line 11: "..: only a fifth (0.20)

Page 34, lines 1-14:

"The answer at first appears to be that the degree of desegregation was greater at the secondary level, for as Table 9 shows, the reduction in degree of segregation in the country as a whole was greater at the secondary than the elementary level:

However, this apparent greater reduction in segregation at the secondary level masks differences among regions. Figures 3 and 4 show the changes from 1968-72 in elementary and secondary schools by region. In the two regions where federal and court actions toward integreation were strongest, the Southeast and West South Central and in the Border states, the drop in segregation was greater in high schools than in elementary ones. But in each of the other regions the decrease in segregation was greater in elementary schools. In fact, in three of the northern regions (New England, Middle Atalntic, East North Central), segregation increased among secondary schools from 1968-70, while no region showed an increase in segregation among elementary schools."

Page 46, line 21: Delete "... but the Southeast ..,

Page 48, lines 4-18:

"When we look at changes from 1968 to 1972, there is an increase in every region but Border states at both levels. But the increases vary by region and by level. In all regions, the increase was either the same at both levels or greater at the secondary level.

What appears to occur is this: As suggested by the earlier data, the general movement of whites to areas with few blacks during this period was greater at the secondary level, very likely due to the greater age and affluence of families with children of high school age. The result of that greater movement was to increase the between district segregation more among secondary school students than among elementary students. Whether the loss of white children when desegregation occurred was greater at secondary than at elementary levels cannot, however, be inferred from these results. That question will be discussed again in a subsequent section."



Page 58, line 14; "Large negative values for Ar ..."

Page 60, line 2 through page 61, line 6:

- 1. For a city with the average number of students, with no blacks and no reduction in segregation, the expected loss per year is:
 - a) Largest 21: (gain of) 0.9% of whites present at beginning of year (average number of students is 169,000)
 - b) Next 46: 1.2% of whites present at beginning of year (average number of students is 58,000)
- 2. Additional expected loss if the city is 50% black:
 - a) Largest 21: 6.8% of whites present at beginning of year
 - b) Next 46: 4.5% of whites present at beginning of year
- 3. Additional expected loss if the city experiences a decrease of .2 in the index of segregation in that year: 25.
 - a) Largest 21: 5.6% of whites at beginning of year
 - b) Next 46: 1.1% of whites at beginning of year
- 4. Additional expected loss if a city were twice its size:
 - a) Largest 21: 0% of whites present at beginning of year
 - b). Next 46: 2.9% of whites present at beginning of year

Taking the first three losses together, the expected loss of whites from a city system with 50% blacks would be:

For the largest 21:-

with reduction of .2 in segreation: (-) 0.9% + 6.8% + 5.6% = 11.5% with no change in segregation: (-) 0.9% + 6.8% = 5.9%

For the next 46:

with reduction of .2 in segregation: 1.2% + 4.5% + 1.1% = 6.8% with no change in segregation: 1.2% + 4.5% = 5.7%

Page 63, line 11 through page 64, line 7:

"Estimated increase in loss of whites in one year as a function of reduction of 12 in index of segregation:

South North
Largest 21 6.8% 4.0%
Next 46 1.9% *

*No reliable estimate for the North can be made since the correlation between Ar and Arx South is .983 (i.e., nearly all changes in segregation occurred in the South in these 46 cities). See footnote 26 for further discussion.

These results show that indeed there has been a greater loss of whites when desegregation has taken place in large southern cities than when it has taken place in large northern cities, with the esimate nearly twice for the southern cities what it is for northern ones. For the smaller cities, there is a smaller loss for the Southern cities though no effect can be estimated for the North in these smaller cities.

For this analysis with the two additional variables, we can also ask



what differences in loss of whites are associated with a difference between 0 and 50% black in the city schools and a difference between 0 between district segregation and .4 between-district segregation.

Estimated increase in loss of whites in one year as a function of 50% black in city school district and between-district segregation of .4:

· · · · · · · · · · · · · · · · · · ·		Between-district
	50% black	segregation of .4
Lärgest 21	2.2%	5.6%
Next 46	1.7%	4.4%

Page 65, tabulation in center of page:

Between-district \ segregation	Largest 21. proportion black .25 .50	Next 46 proportion black .25 .5075
0	2% 10% 17%	37 67 97
.2	9 16 24	8 11 15
.4	15 / 23 30	14 17 20

Page 66, lines 1 through 3:

"These estimates are for a city in the South. In the North the losses at the time of reduction in segregation are estimated to be 3.6% less in the largest 21 cities with no reliable estimate possible in the next 46."

Page 66, line 22: "and three more equations, ..."

Page 71, lines 10 through 12:

"The results of the analysis give coefficients for Ar of .262 (.057) for the largest 21 city districts, and .098 (.025) for the smaller cities.²⁹"

Page 71, footnote 29: "R2 in these equations are .65 and .60 respectively."

Pages 77 and 78: Delete section on Elementary and Secondary Schools, which continues through sixth line from bottom on page 78.

Page 79: Delete number 10.

REVISED TABLES AND FIGURES



Revised Table 5. BLACK-WHITE CONTACT AND SCHOOL SEGREGATION IN 1968 BY REGION, FOR ELEMENTARY SCHOOLS AND SECONDARY SCHOOLS

				and a summer of the summer of		<u>`</u>
	· Fropor	tion	Schoo	Imates	Black-wi segrega	
• • • • • • • • • • • • • • • • • • • •	white	black .	whites for average black	blacks for average white	within district	total
U.S.		,		•	\$. I	
Elementary Secondary	.78 .81	.16	.20	.04 .05	.66 .59	75 .69
New England				î.	,	
Elementary Secondary	.92 .95	.06	42 .	.03	.42 .16	.55 .29
Middle Atlantic		,	•	•	,	•
Elementary Secondary	78 .85	.16	.26 .42	.05	.50 .30	ें .67 .50
Border			* *	, , , , ,	- N	*
Elementary Secondary	.77 .81	.22 .19	.22 .31	.06	.53 .41	,71 .62
Southeast Elementary Secondary		28 -	.15	.06	.74 .74	.78 .76
West South Gentral Elementary Secondary	.77 .81	.16 .15	.15 .23	.03	.73 .63	.80 .71
East North Central				The state of the s	**	
Elementary Secondary	.87 .88	.12	. 25 . 35	.04	.63 .50	./11 .60
West North Central		71, 7		a series	The same of the same	
Elementary Secondary	.87 .93	11	.22	.03	.67 .44	.75 53
Mountain		,		ps. 2,	, ,	
Elementary Secondary	.79 .84	,03 ,02	.29	,01 ,02	.57 .32	.64 .37
Pacific	-		• •	•		
Elementary Secondary	.77	.08 .07	.23	.02	.59 .50	71 .62

Page 34: Revised Table 9... Within-district Segregation in 1968, 70, 72 at Elementary and Secondary Levels for the U.S. as a Whole

· /_	1968 _	1970	1972	1972-68
Elementary Secondary	.66 .59	48	.42	24 30

Page 47: Revised Table 12. Between-district Segregation in 1968 and 1972 in Each Region for Elementary and Secondary Schools

		Element	ary	S	econda	ry , .
	1968 (1)	1972 (2)	Change (3)	1968 (4)	1972 (5)	(hange (6)
United States	.34	37	+.03	.31	.34	+.094.
New England Middle Atlantic Border Southeast West South Central East North Central West North Central Mountain Pacific	v. 28 . 42 . 49 . 21 . 34 . 31 . 39 . 19 . 31	.34 .46 .48 .23 .38 .32 .41 .20	+.06 +.04 01 +.02 +.04 +.01 +.02 +.01 +.03	.17 .33 .45 .20 .29 .29 .27 .09 .29	.23 .41 .47 .22 .34 .33 .35 .12/	+.06 +.08 +.02 +.02 +.05 +.04 +.08 +.03 +.05



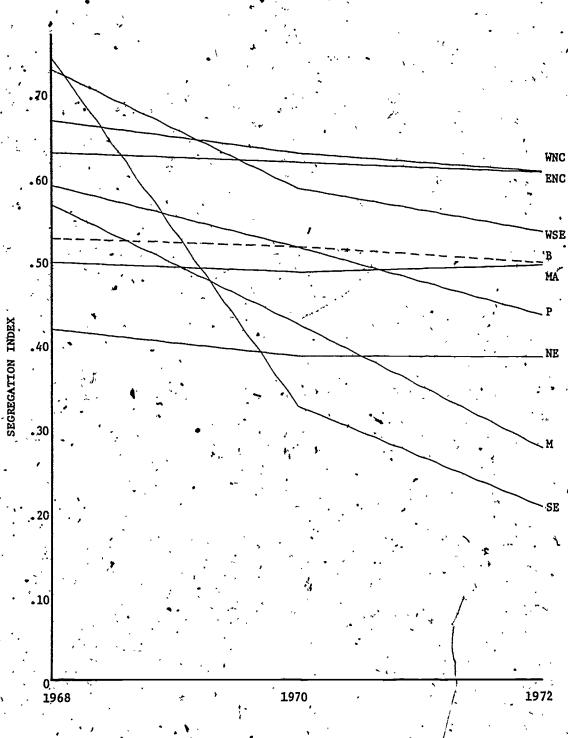


Figure 3 (Revised)

Within-district Elementary School Segregation by Region

ERIC



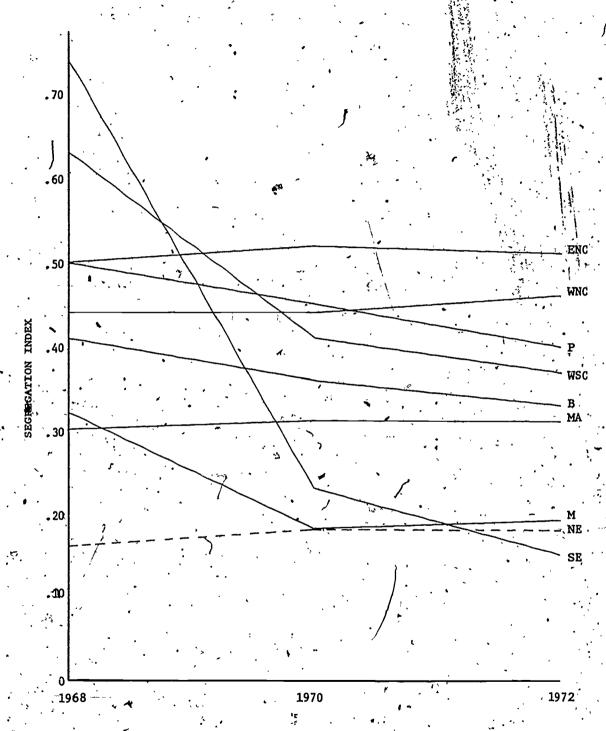


Figure 4 (Revised)

Within-district Secondary School Segregation, by Region



Page 59: Revised Table 14. Regression Coefficients for Analyses of White Student Loss to Central Cities

Equation 1		Largest 21	•	Next 46
ΔŘ	1	.27,9 (.062)	• • •	.056 (.026)
Prop. black	• .	133 (:028)	• .	090 (.014)
ln N	*	.000 (.008)		042 (.010)
Constant ~	• • • ,	.013	· ·	.452
R ²		.29	**	.26
Number of		•		
Observations		(105)		, (226)

Including inter-district segregation in SMSA, and interaction of desegregation with South:

Equation 2		*
ΔR * .*	.199 (.156)	148 (.137
Prop. black	044 (.039)	035 (.016
Ln N	.066 (.008)	041 (.010
R' SMSA	165 (.050)	110 (.021
AD to	*\1/2 / 170\	2%2 (137

 AR x S
 .143 (.170)
 .242

 Constant
 -.059
 .438

 R²
 .36
 .35

Including interactions of desegregation with proportion black and inter-district segregation, and also including South as a dummy variable:

Equation 3

ΔR	459 (.184)	, 4349 (.151)
Prop. black	.051 (.037)	026 (.019)
ln N	.003 (.006),	039 (.009)
R SMSA	210 (.044)	102 (.025)
ΔR x South	'.148 (.198)	(. 145)
ΔR x Prop. black	1.770 (.307)	.511 (.215)
AR x R SMSA	.561 (.494)	.894 (.314)
South	006 (.010)	002 (.006)
Constant ,	039	.414
R ²	.60	.40
· · · · ·		

Page 68: Revised Table 15. Further Analysis Results (Equations include proportion black, and inter-district segregation)

Earge 21

Years of des	egregation	ΔR _t	ΔR _{t-1}	$\Delta R_{t,72}$ R^2	!
69-73		.320 (.060)	. •	.35	j
70-73		'.330 (.069)	.009 (.080	.35	Ĺ
71-73		.279 (.065)	035 (.078	3)022 (.075) .43	J.
72-73	• ' ,	.603 (.096)	082 (.068	3) ,048 (3,070)71	
Next 46					
69-73		.089 (.025)		34	į
\ 70−73	÷	.076 (.026)	:034 (.026	$\langle \cdot \rangle$. 31	L
71-73	`	.102 (.032)	.024 (.025	i)024 (.027)42	2
72-73	, , ,	.130 (.050)	.051 (.033	3)\045 (.029)\ .40)·

Estimated added losses of whites due to desegregation in first year of desegregation, in second year, and third year, assuming reduction of . In segregation index.*

\mathcal{A}_{i}		First	Second	Third
		year ·	year	year
Large 21	٠.,	7.7%	0.7%(gain)	0.7%(gain)
Next \46	,	2.0%	0.7%	0.7%(gain)

*Unweighted averages of above estimates were used because standard errors were nearly alike.

Page 72: Revised Tab

Revised Table 17. Estimated Additional Loss of White Students in Specified Cities

(Loss during desegregation in cities which had a Δr in one year of -.1, beyond general loss of whites in those cities. Desegregation assumed is $\Delta r = -.2$.)

<u>City</u>	of white a	loss as a percent students present uning of year
Houston Dallas Memphis Tampa Indianapolis Atlanta Denver San Francisco	(gain)	9.1% 7.9% 15.6% 2.6% 6.7% 16.7% 4.0% 5.1%

NOTE: Professor Reynolds Farley (personal communication 10 September, 1975) has pointed out to us that Houston, Dallas, Memphis, and Denver annexed substantial amounts of territory during the period 1970-73, so that the losses for those cities may be underestimated due to an undetermined number of white children added through annexation. Thus the apparent gains for Houston and Denver may well be due to annexation.

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INTRODUCTION

School desegregation has been a major issue in the United States in the 1960's and 1970's. In 1954, the Supreme Court decision in the Brown case initiated a set of activities which has culminated in the current desegregation efforts in large cities of the North.

"Desegregation" has meant many things during the period since 1954.

The term initially referred to elimination of dual school systems, in which one set of attendance zones was used to assign white children to one set of schools, and a second set of attendance zones was used to assign black children to a different set of schools. The classic and plaintive query of the black mother in the South was why should her children to a school far away, past a nearby school, merely because of the color of his skin. The extent of the change is that the same plaintive query is now heard, primarily from white mothers, primarily in large cities, where bussing has begun to be used, not to segregate children by race, but to integrate them.

This change is reflected in a change in meaning of the term desegregation. From the initial meaning of eliminating a system of dual assignment, the term desegregation has come to mean reduction of any segregation within a system, and in the strongest meaning of the term, elimination of any racial imbalance among schools in the system. Thus desegregation, which initially meant abolition of a legally-imposed segregation, has come to mean; in many cases, affirmative integration.

However, except for one court case (in Detroit) which was later reversed in the Supreme Court, desegregation has not come to mean elimination of racial imbalance between school districts. Nor, except in a few instances, have two or more school systems combined or cooperated to reduce segregation due to residence in different districts. Thus social policy in school desegregation, although changing over time and different in different districts has almost wholly been confined to desegregation of schools within a school district.

Given the policies that have been applied, by local school systems, by the Department of Health, Education, and Welfare, and by the courts, we can ask a series of questions concerning the actual state of rackal integration in schools, and recent trends in that state. For actions taken by one branch of government and at one level of government interact with actions taken by individuals and by other branches and levels of The actual state of school integration is a result of this interaction. It is different than it would be in the absence of the policies designed to bring about integration; but it is more than a simple consequence of the policies. Indeed, there are numerous examples of government policy in which the result of the interaction between policy and response is precisely the opposite of the result intended by those who initiated the policy. It is especially important in the case of school desegregation to examine this interaction, because many of the actions taken by individuals, and some of those taken by their local government bodies, have precisely the opposite effect on school desegregation to that indended by federal government policy. The most obvious such individual action, of course, is a move of residence to flee school integration.

To examine the status and trends in school segregation, the 'primary (and virtually singular) data source are the statistical reports collected by the Department of Health, Education, and Welfare. Beginning in 1968 and continuing to the present, the Office for Civil Rights (OCR) of HEW has obtained from school systems throughout the United States statistics showing the racial composition of each school in the district, the racial composition of teaching staffs, and related information. The data for 1968, 69, 70, 71, 72, and 73 have been processed and are available for analysis. These data allow a detailed statistical analysis of the status and trends in school segregation by race throughout the United States. They are unique in this; and the opportunity they offer is the opportunity to examine what has actually occurred throughout the period 1968-73 during which there have been policies at local, state, and federal levels, in courts, legislatures, executive and administrative branches of government related to school desegregation. Most of these policies have been aimed at bringing about desegregation, though in a few cases, such as anti-bussing actions in Congress, they have been aimed at preventing certain kinds of desegregation.

Not all the questions surrounding school desegregation can be answered by these data, as will be evident in subsequent pages, but some can be, in a more complete way than before.

of the various policy aims that have been the objects of school desegregation policies, these statistical data can give evidence only on a subset of the aims. And from this subset, we will examine a still smaller subset: the aim of eliminating racial segregation among schools within a system, whatever its source, and the aim of eliminating racial segregation between districts. The data gathered by OCR allow also for the examination of teacher assignment, and thus racial segregation among staff and

between staff and students. However, we will not pursue that examination there.

The data do not allow, on the other hand, for a study of segregation among classes within a school (often known as "tracking"), because there is no good information on pupil assignment to classes within a school. The Office for Civil Rights attempted, in its 1971 questionnaire, to obtain these data from school systems, but abandoned the effort in 1972. A more detailed and intensive mode of data collection is probably necessary if data of sufficient quality on assignment within school are to be obtained.

No implication is attended by the examination to be carried out below that the policy aim of eliminating segregation among schools with a system, whatever its source, is the "correct" one, and other policies which would either go less far (such as eliminating only that school segregation not due to residence) or further (such as eliminating all segregation among classes within a school) are not correct. The question of what is the correct policy depends not only on the implicitly aimed-for social consequences, but upon the realm of legitimate authority of the governmental units applying the policy. This in turn depends on just which individual rights citizens have vested in their government for collective use, through the Constitution and legislative acts. For example, to accomplish the policy aim of eliminating all segregation among schools, whatever its source, the most effective implementation would be federally-specified pupil assignment to schools to create precise racial balance, disregarding school district and state lines. However, such a policy would be using collectively certain rights that individuals have retained to themselves or vested in a more local level of government. As another example,

5

citizens have vested certain authority in the court, such as constitutional protection, but a wider range of authority in elected legislatures. Thus certain policy aims such as elimination of segregation among schools whatever its source may be appropriate for legislative action if it achieves certain desired consequences, but not appropriate for court action, which must be directed not toward achieving desirable social goals, but insuring constitutional protection for all citizens. It is useful also to point out that data such as these which show the indirect and unintended consequences of school desegregation actions may be relevant for certain desegregation decisions, but not for others. They are relevant for an executive or legislative body which is attempting in its action to achieve a desirable social consequence. They are not relevant for a court decision which is acting to insure equal protection under the 14th

Despite the fact that only two aims, student desegregation among schools in a district regardless of the source of segregation, and desegregation between school districts, can be studied, there are a number of important questions that can be answered with these data. In particular, these data show the result of government desegregation actions and individual segregating actions taken together, and allow some assessment of the effects of each. In this way, they suggest the limits of government policy, or at least the limits of policies carried out in the conflict mode that has characterized school desegregation policy.

We will begin by examining the state of racial integration among schools within a district in 1968, and then move to an examination of the changes that occurred over the period 1968-1973. What will be of special interest

is the differential changes that occurred over that period of time in different kinds of school settings: in different regions of the country, in school districts of different sizes, and in particular large cities. For different things were happening in different places during this time, giving rise to very different trends in different places.

For much of the analysis in examining trends, two separate series must be used. The even years, 1968, 1970, 1972, constitute a census of U.S. school districts, covering 90% of the children in school, and excluding only a few very small districts. The odd years include only a sample of school systems, representing those districts in which most minority pupils are found. When examining trends over time in individual districts the odd-numbered years can be safely included, because each district is either included as a whole, or excluded. But for average across the country, across regions, across states, and even metropolitan areas, the odd years cannot be included, and the series must end with 1972.

See Appendix 1 for OCR sampling plan.

THE MEASURES OF SCHOOL INTEGRATION

A principal consequence of school desegregation that is of major societal interst is the amount of contact between children of different racial groups. Furthermore, most of the attention has been focussed on the amount of contact of "minority" children (principally blacks and Spanish American children) with "majority whites." Much attention both of courts and legislatures has been directed toward elimination of patterns that result in schools which are overwhelmingly or predominantly minority.

For these reasons, a directly relevant statistical measure on a school system is the proportion of white children in the same school with the average black child. This gives a measure of the experience of the "average black child" in that school district with whites. A similar

A different consequence may be of legal interest: the degree to which segregation resulting from action of any level of government (thus failing to provide equal protection under the 14th Amendment) is eliminated. Still other consequences are of interest to particular groups, and these may depend on the particular way that segregation or integration arises. For example, if either segregation or integration is achieved through assignment of children to schools at some distance because of their race, then the parents affected may feel a greater deprivation of rights than in the case when such assignment does not occur, even if the school's racial composition does not differ. However, a study of the kind carried out here cannot examine these consequences.

The OCR surveys measure enrollments of the following categories:
Negroes, American Indian. Oriental, Spanish Surnamed Americans, and
Other. White non-minority and undesignated minority groups are
included in the category "Other."

measure may be calculated for the proportion of children of each racial group in the school of the average child from each racial group.

This measure is affected not only by the degree of segregation between two groups in different schools in the system, but also by the overall proportion of children in each group. If there are few white children in the system, for example, then whether or not there is the same proportion of whites in each school, the average black child will have a small proportion of white children in his school. Because of this, it is valuable also to have a measure of just how far from an even distribution across the schools the actual distribution is, that is, a measure that is standardized for the number of whites in the system. Such a measure can be constructed, having a value of 0 if there is no segregation between the

$$s_{bw} = \frac{\sum_{k}^{\Sigma} n_{kb}^{p} kw}{\sum_{k}^{\Sigma} n_{kb}}$$
 (1)

for for any groups i and j

$$s_{ij} = \frac{\sum_{\substack{k \\ k}}^{n} k i^{p} k j}{\sum_{\substack{k \\ k}}^{n} k i}$$
 (2)

The measure of interracial school contact may be constructed as follows: If we number the schools in the system 1, ...k, ...n, and consider the first school, there is a given proportion of whites in this school. Call this plw. There are a certain number of blacks in the school. Call this nlb. Then for this number of blacks, the proportion of whites in their school is plw. If we average this proportion over all schools, weighting by the number of blacks, we obtain the desired measure, which we may call sbw, the proportion of white children in the school of the average black child (or more generally, labelling the group i and j for generality):

two groups in question, and a value of 1.0 if segregation is complete.

It is important to note, however, that although the standardized measure is a measure of segregation of children in one, group from those of another, it is the unstandardized measure which measures directly the presence of children of a group in schools attended by children of another group. Thus the proportion of white schoolmates for the average black child may be low, as in Washington, D.C., where only 3% of the children are white, without the measure of segregation being especially high.6

$$r_{ij} = \frac{p_j - s_{ij}}{p_j}$$
 (3)

"measure of segregation," r_{ij} , but rather to let s_{ij} be a dependent variable in an analysis, with one of the independent variables the proportion of group j in the system. Using this alternative, we do not begin with a concept of "segregation," but rather with a concept of proportion of the average member of group i's schoolmates that are of group j. The degree to which this is accounted for by the proportion of group j in the system is a measure of the integration of group i with j. In a regression equation, if the coefficient on the proportion of group j is 1, there is no segregation. Insofar as it is below 1, there is.

The standardized measure of segregation is constructed as follows. If the same proportion of children from group j were in each school, then s_{ij} (see preceding footnote for notation) would be equal to p_j . If the children of group j were all in schools by themselves, totally isolated from children of group i, s_{ij} would be 0. Thus a measure of how far s_{ij} is from p_j is $(p_j - s_{ij})/p_j$. This we will call r_{ij} , which may be thought of as a measure of the degree of segregation, or the degree to which segregation between schools is responsible for the value of s_{ij} . The formula is

INTEGRATION IN 1968

In 1968 in the United States, 15% of the children in public schools (grades 1-12) were black, 6% were of another minority, and 79% were majority whites. But the average black child in U.S. schools went to a school which had 74% black children in it, and only 22% white children (and 4% other minorities). Meanwhile, the average majority white child was in a school which was 93% white and only 4% black.

These numbers show that the interracial contact in American schools in 1968 was quite low. Black children had more contact with whites than whites had with blacks, due to the disparity in overall numbers; but the separation was quite marked. Using the standardized measure described earlier, r_{ij} , the segregation between blacks and whites is .72.

Although in the subsequent examination we will focus exclusively on black-white segregation, it is useful to note here the proportion of schoolmates from each of the five racial-ethnic groups for the average child from each group. Table 1 shows this for 1968.

As this table shows, the average white child in the U.S. has far less contact with any minority children than any of the minorities have with children from other groups. Among the minorities, black children have least contact with children from other groups. Construction of standardized measures



⁷ Using equation (3), this is calculated as $r_{bw} = \frac{.79 - .22}{.79} = .72$.

⁸ Using equation (3), standardized measures of segregation may be calculated for each pair of groups, from the tabulation presented.

Table 1. PROPORTION OF SCHOOLMATES FROM EACH GROUP FOR THE AVERAGE CHILD OF EACH GROUP

<u> </u>				·		*
		Pro	portion of sc	hoolmates who	are:	•
For the Average:	American Indian	Negro '	Oriental 'American	Spanish Surname	Majority White	Sum
American Indian	.31	.04	0+	.06	, •59	1.00
Negro	. 0+	.74	0+	.03	. 22	.99
Oriental American	0+\	.1i `	.11	.12	.66	1.00
Spanish Surname	0+	.11	.01	.43	.44	.99
Majority White	0+	.04	0+	.03	.93	1.00
Proportion of each group	.0035	1530	.0047	.0466	.7923	

of segregation from these figures would show that blacks and whites are the most segregated, both from one another and from the other groups.

Within-district segregation

The segregation reflected in the value of .72 for black-white segregation is composed of two parts: segregation among schools within the same school district, and segregation due to blacks and whites living in different school

districts. The average of the within-district segregation, when weighted according to the number of blacks in the districts, is somewhat lower, at .63. However, this figure represents a degree of segregation nearly as large as that for total segregation. (If every district in which blacks lived had the same racial composition, then given this same segregation of .63 within districts, the average black child would have had 29% white schoolmates, rather than 22%. This would have been somewhat more contact, but still not a high amount. 9)

A different picture is evident when we examine the average within-district segregation weighted by the number of whites in the district. This figure is .23. The low number compared to the high .63 for the average weighted by the number of blacks reflects the fact that most whites live in smaller districts with few blacks, while most blacks live in districts with many whites. If segregation in the smaller districts was low in 1968 (as we shall see shortly it was), then the within-district segregation for the average black would be high. Or to put it differently, the segregation within the districts where most blacks live is high, while the segregation within the districts where most whites live is much lower. This reflects also the fact that most whites live in districts different from those in which most blacks live.

We shall use as a measure of the average within-district segregation in the subsequent analysis the average weighted by numbers of black students, since desegregation policy within districts has focussed on the districts with many blacks, and upon the interracial contacts of blacks.



The value of 29% is calculated by use of equation (3) with $r_{bw} = 6.3$ $p_{w} = .79$ Thus $.63 = \frac{.79 - s_{bw}}{.79}$, or $s_{bw} = .29$.

Regional Variations

However, the degree of school segregation differed considerably among regions of the country in 1968. Table 2 shows, for the Census geographic regions, the contact of blacks and whites, and the segregation, in each of the regions.

Table 2 shows, comparing columns 1 and 3, the disparity between the proportion white in each region and the proportion white among the average black's schoolmates. Although the proportion white ranges from .69 to .93, in no region except the Outlying states does the average black have a majority of white schoolmates. Only in New England does the proportion approach this. Comparing columns 2 and 4 shows a similar disparity for whites: although the proportion black reaches .29 in one region, in no region does the average white have more tha 7% black schoolmates.

These disparities are shown in column 6, the measure of total segregation. It is greatest in the two southern regions, though not so much greater than several northern regions as might be expected, given historic differences between North and South in school policy. With this relative similarity between total segregation in North and South in 1968, it is somewhat puzzling that when the goals of desegregation shifted from elimination of dual systems to more ambitious ones, attention continued to be concentrated on the South until the early 1970's. The explanation probably lies in the

Several regions have been reclassified, because the character of racial segregation has differed within the region. Hawaii and Alaska have been separated as "outlying" states from the Pacific region; and the South Atlantic and East South Central have been combined and redivided into Border (Delaware, Maryland, West Virginia, Kentucky) and Southeast (all others in these two regions). In all tabulations beyond Table 2, the Outlying states, Hawaii and Alaska, are dropped, because as Table 2 shows, there is no black-white segregation in their schools, and the number of blacks in those states is very small.

Table 2. BLACK-WHITE CONTACT AND SCHOOL SEGREGATION IN 1968 BY REGION

			•	•	**	
, .	Propo	rtion	Schoo	lmates	Black- segreg	white ation
	1 white	2 black	3 whites for average black	blacks for average white	5 within district	6 total
บ.ร.	.79	.15	٠.22 -	.04	.63	.72
New England	.93	.05	.49	.03	· 34 ·	•47
Middle - Atlantic	.81	v14	.31	.05	.43	.62
Border	.79	.21	.26	۵07 ,	.48	•67
Southeast	.69	.29	16.	.07	_;75	77
West South	.78	.16	.18	· 04	. 69	•77
East North, Central	.87	.12	.29		.58	.67
West North Central	.90	.09 5	.27	. <u> </u>	.61	· . 70 ^{-/-}
Mountain	.81	.03	.36	.01~	.49	.56 ≎
Pacific	78	.07	.25		.56	.68
Outlying A	- 87	,03 :\	.83	, ø3	(-).04	· .05

conflict surrounding desegregation: The desegregation movement was part of a larger movement of the 1960's of liberating the southern Negro. Only with the success of that movement did attention turn to the North.

In the measure of within-district segregation (column 5), the two southern regions are more distinct from the northern regions. The southeast shows the classic pattern of southern segregation, with nearly all the segregation occurring within districts, while New England, Middle Atlantic, and Border regions show what has emerged as the northern pattern of segregation—segregation due to blacks and whites attending schools in different districts. In those three regions, the ratio of the within-district segregation to the total segregation is lowest, 69 to .72.

Variation by size of district

The policies of desegregation, as well as the individual responses to it, vary greatly by district size. Desegregation in an urban area is a very different process from that in a small district in a rural area. Thus just as it is important to examine regional variations (because of historical differences and because of the different desegregation policies applied in North and South), it is important to examine variations by district size. Since district boundaries most often coincide with central city boundaries, variations in district size are largely coincident with variation in city size.

Table 3 shows the 1968 interracial contact and segregation by district size. The columns have the same meaning as columns 1-5 of Table 2. (Column 6 is not included here, since "total segregation" has meaning only for a geographic entity, such as SMSA or region.) First, columns 1 and 2 show the sharp racial differences by district size: the smaller the district, the greater the proportion white and smaller the proportion black. One result



	,				`				
5Black-white	segregation vithin district	· 63		.71	. 99•	.54	,59	.56	777
Imates	4 blacks for average white	20.			90*	70° >	*0 *	.03	. , 02
Schoolmates	3 whites for average black	75. 15 Z 15 15 15 15 15 15 15 15 15 15 15 15 15	ではない	12	.22	30	.28	.30	,35
Proportion	white black	51: 62.		.52	-,73 ,20	.83	11. 38.	60.	90. · 06.
Proportion of all blacks in	district of this size	00.11.			.23	74	ET.		90.
Proportion of Proportion of	districts of a this size.	1.0		60	16.	.20	750	118	.16
		u.s.	District, Size	> 100,000	25-100,000	10-25,000	5-10,000	2.5-5,000	<,2,500

The size classification for districts was carried out only once, for comparability across years. Sizes are based on 1972 enrollments.

of this is shown in columns 3 and 4: the average black child has an increasing proportion of white schoolmates as district size decreases, and the average white has a decreasing proportion of black schoolmates as district size decreases.

Column 5, shows that given the racial distributions in the districts, the average segregation is greatest within the largest districts, and declines somewhat as district size decreases. Thus not all the increase in the proportion of white schoolmates for the average black child in smaller districts is due to the greater proportion of whites in those districts. Part is due to the lesser segregation in the smaller districts.

Variations in segregation by district size in each region

The differing patterns of segregation in North and South suggest the usefulness of examining segregation in different size districts in each of the regions. Table 4 shows the measure of segregation (column 5 in Tables 2 and 3) in each size class in each region. First, looking at the largest districts, the most striking point is that segregation is high not only in the two southern regions; it is equally high in three of the five northern regions. Only in Middle Atlantic and Border states is the degree of segregation in the largest districts lower.

As district size decreases, however, segregation decreases markedly outside the two Southern regions. In the Southeast, segregation remains almost constant among all size districts, and in the West South Central region, it declines only slightly as district size decreases. Thus in 1968, the difference between South and North in segregation is not at all in the largest cities, but in the smaller cities and towns. A caution should be introduced, however: the measures of segregation do not tell the levels of contact be-



Table, 4. AVERAGE WITHIN-DISTRICT SEGREGATION IN 1968 IN EACH REGION ACCORDING TO DISTRICT SIZE

			- T			
Pacific	-84-	.45	•35	.20	80.	• 05
Mountain	1	•56	*44	.45	.11	90°
West North Central	.82	.64	. żż	, 15	.19	60.
East North Central	.79	.61	.33	₹ 81.	60°	.00
West South Central	. ż9	.74	.61	.64	.52	•36
South-	.84	77.	69.	.74	.74	0.70
Border	. 59	.46	.23	.24	.13	** 00°
Middle	.53	.54	.30	.15	90.	**************************************
New England			.28	80.	90•	.01
u.s.	16.	99.	.54`	65*,	95	77*
District Size (000)	>100	25-100	. 10-25	5-10	2.5-5	<2.5

tween the two racial groups: as Table 2 showed, the average white child in the Southeast has, despite the higher levels of segregation, a higher proportion of black schoolmates than in any other region, except in the Border states where it is equal. These tables suggest, in fact, that it is the potentially high proportion of black schoolmates, due to a high proportion black in the region or district, that generates high levels of segregation. Table 2 shows a rather strong relation between the proportion black in a region and the total or within district segregation.

Segregation at elementary and secondary levels

In the tabulations up to this point, all students in all schools were included, whatever grade they were in. However, in most localities, schools are divided into different levels, at least into an elementary school and high school, though sometimes into three levels (a 6-3-3 plan, with junior high schools, or a 4-4-4 plan, or a 5-3-4 plan). Elementary schools are characteristically smaller than high schools, having smaller geographic attendance zones, with several elementary schools feeding into a single high school. Because of residential segregation by race, we would expect the attendance zones of elementary schools to be more racially homogeneous, and thus to be more segregated than high schools.

In recent years, the effort to achieve integration without bussing has led to even finer divisions in some cases, with a school building which once covered the four years of high school, for example, now covering only two years, with twice as large an attendance zone.

Table 5, which is comparable to the first six columns of Table 2, shows the degree of interracial contact and the degree of segregation for the U.S. as a whole and for each region, in elementary and secondary schools. As the table shows, elementary schools are more segregated than high schools, in every region. Only in the Southeast is the segregation at the two levels nearly the same. This reflects the remains of the historical de jure segregation of the South, which segregates beyond the segregation induced by residence, and thus segregates the high schools as fully as elementary.

The difference in segregation at elementary and secondary levels is rather substantial in most regions, and in the U.S. as a whole: the average black elementary school child has only a sixth (0.17) of his schoolmates white, while the average black secondary school child has a quarter (0.25) of his schoolmates white. Whether the greater segregation at the elementary level includes a greater tendency on the part of whites to segregate their elementary school children, beyond that due to small attendance zones, cannot be inferred from these data. However, the examination of trends from 1968-72 in a subsequent section will give some indications of different processes at elementary and

Because of the varying organization of schools into levels, and because of the way data were collected by OCR (the grade levels covered by each school and the numbers of each racial group in each school, but not by grade level) a fixed rule for classifying a schools as "elementary" or "secondary" was required. This was to count every school with a sixth grade as elementary and every school with a tenth grade as secondary. This excluded some schools with less than the first six grades; but to include them along with the sixth-grade schools for which they were feeders would have incorrectly assessed segregation between, say, a grade 1-4 school and a 5-8 school, rather than segregation across all schools serving a given grade level. Some schools in small communities, which cover grades 1-12, are included both as elementary and secondary. uUsing this method, however, we obtain the segregation at two levels in the community, the 6th and 10th grade level.

Table 5. BLACK-WHITE CONTACT AND SCHOOL SEGREGATION IN 1968 BY REGION, FOR ELEMENTARY SCHOOLS AND SECONDARY SCHOOLS

	```					
	· Propo	rtion	School	olmates	Black-	
	1 white	2 black	3 whites for average black	4. blacks for average white	5 within district	6 total
· T V.S.						
Secondary	.77 .81 (.17 .15	.17` .25	04	.70 .61	78
New England	,					
Elementary Secondary	•92 •95	.06 .04	.43 .68	.03 .03	.40	.53
Hiddle Atlantic	•	-				,
Elementary Secondary	.79 .87	.15	.27	.05 .05	.50 .27	.67
Border	٠				,	· ·
Elementary Secondary	.78 .85	.21	21 .39	.06 .07	•56 ' •35	.73 .54
Southeast				• `) () () () () () () () () () (•
Elementary Secondary	.66 .67	.32	.12 .15	.06 .07	• •79 •75	.81 .78
West South Central					,	
Elementary Secondary	.76 .81 _	.18	.14 .23 «	.03 .04	.76 .63	.82 .72
East North Central						, ,
Elementary Secondary	.86 .90	.13	.24	•04 •04	· .65	.72 .55
West North Central	,	*		,	:. • ·'	
Elementary Secondary	.89 .93	.10 .06	.22 .38	•03 · ·	.66 .47	.75 .59
Mountain		,			:	
Elementary Secondary	.80 .83	.03	28 .53	.01	.59 .32	.66 .36
Pacific		*	t. v '	1	· ·	*
Elementary & Secondary	.77	.08 .05	.21	02	.62 .44	.73 .57

secondary levels.

Racial contact and segregation in the 22 largest central-city districts

As Tables 3 and 4 show, segregation is most pronounced in the largest school districts, which tend to be located in the largest cities. in the same format as columns 1-6 of Table 2, shows for the twenty-two larg est central-city districts (1972 enrollment) the proportion of schoolmates of the other race in columns 3 and 4, and the measure of segregation in , column 5. 13 The first seventeen of these are in the 100,000+ size category in Tables 3 and 4; the last five are in the 25-100,000 class. In only three cities (Columbus, Boston, and San Diego) did the average black child have more than a quarter of his schoolmates white, and in only six cities (Philadelphia, Detroit, Baltimore, New Orleans, New York, and San Francisco, excluding Washington, D.C., which is an aberrant case, almost racially homogeneous) did the average white child have more than 15% of his schoolmates black. This low degree of contact is reflected by the segregation measures, eight of which are .80 or above, and only three of which are below .60. These figures reemphasize what Table 4 shows: that segregation in large cities in 1968 was not concentrated in any region of the country, but appeared to a similar degree in all regions.

Altogether, the picture of racial segregation in U.S. schools in 1968 is one with several components:

These 22 largest central city school districts are classified according to 1972 enrollment and an Office of Education metropolitan status classification. They represent 22 of the 23 largest central city districts; Albuquerque is excluded (the 22nd largest) because it is not among the largest 50 cities in total population.



Table 6: BLACK-WHITE CONTACT AND SCHOOL SEGREGATION IN 1968 FOR 22 LARGEST GENTRAL CITY SCHOOL DISTRICTS (Districts ranked by 1972 Enrollment) -

	•	Prop	ortion	Schoo	lma tes	Segre-
	•	l White	2 _{Black}	3 Whites for average black	4 Blacks for average white	gation within district
1.	New York	.44	.31″	.31	•17	.47
2.	Los Angeles	.54	23	.07	•03	.86 ~
3.	Chicago	38	. \ .53	.05	.08	.86
4.	Philadelphia	.39	.59	.14	. 21	.64
5.	Detroit	.39	.59	.13	•20 °	.66
6.`	Houston	. 53、	•33	.06	7.04	.89
7.	Baltimore	'.35 ·	65	.10	ج 19 _ج	:71 ~
8.	Dallas	.61	.31	, ,06 .	.03	.91
9.	Cleveland	.42	.56	.06	.09	.85
10.	Wash., D.C.	.06	.93-	.03	.44	•53 _, «
11	Memphis	.4,6	•54	.04	, 04	.92
12.	Milwaukee	₋ .73	.24	.18	•06	. 75
13.	San Diego	.76	12	.26	.04	.66
14.	Columbus ;	.74	.26	•30	•10	. 60
-15.	Tampa	74	.19	.16	.04	.78
16.	St. Louis	36.	.64	.07	•12	. 82 ⋺
1.7.	New Orleans	31	.67	.09	.19	.72
18.	Indianapolis	.66	.34	- 22	.11	.67
19.	Boston	.68	.27	27	.11	. 60
20.	Atlanta	.38	62	.06	.09 •	.85 ~~
21.	Denver	.66*	£14	.20	•04	.69
22.	San Francisco	.41	. 28 ⁻	.25	•17	.38

- High segregation in the largest cities of the country, where the proportions of blacks are greatest;
- 2. Sharply lower segregation in smaller districts everywhere but the South (and slightly lower there), but much smaller proportions of blacks in these smaller districts -- except in the South;
- 3. A large contribution to total segregation in some northern regions —
 due to blacks and whites living in différent districts, so that the
 difference in total segregation between North and South is consider—
 ably less than their difference in segregation within districts;
- 4. Greater segregation at elementary than at secondary levels, due at least in part to the smaller, more homogeneous areas served by elementary schools.
- 5. A seeming paradox: the region with the highest degree of segregation, the Southeast, is also the region in which the average white child had the highest proportion of black schoolmates (.07). The reason, of course, lies in the higher proportion of blacks in the Southeast.

It is clear from these data that by 1968, desegregation of schools was a far from accomplished task in cities and towns of all sizes in the South; but that in the largest cities it was equally high in many places where dual school systems had never existed. But this was the picture in 1968, before the major thrust of desegregation in schools had occurred. The next four years show strong trends toward desegregation. It is these trends to which we now turn.

TRENDS IN WITHIN-SYSTEM SEGREGATION

Between 1968 and 1972, there was a sharp reduction in black-white segregation in the United States. In 1972, 16% of public school children were black, and 77% white. The average black child in 1972 went to a school that was 61% black (compared to 74% in 1968) and 34% white. And the average majority white child was in a school which was 89% white and 7% black. The comparison below shows the change from 1968 to 1972:

	Proportion		School	nates	*3	Black-white segregation		
	white	<u>black</u>	whites for average black	blacks for average white	within Mistrict	Total		
1968	.79_	.15	.22	.04	.63	.72		
1972	.77	,16	.34	.07 _	.37	. 56		

The change from 1968 to 1972 is substantial. Indeed, the average with-in-district segregation in 1972 between blacks and whites may not be greater than that between some pairs of white ethnic groups. But the change from 1968 to 1972 consists of very different changes in different locales. For reference in making comparisons with Table 2, Table 7 shows the interracial

Table 7. BLACK-WHITE CONTACT AND SCHOOL SEGREGATION IN 1972 BY REGION

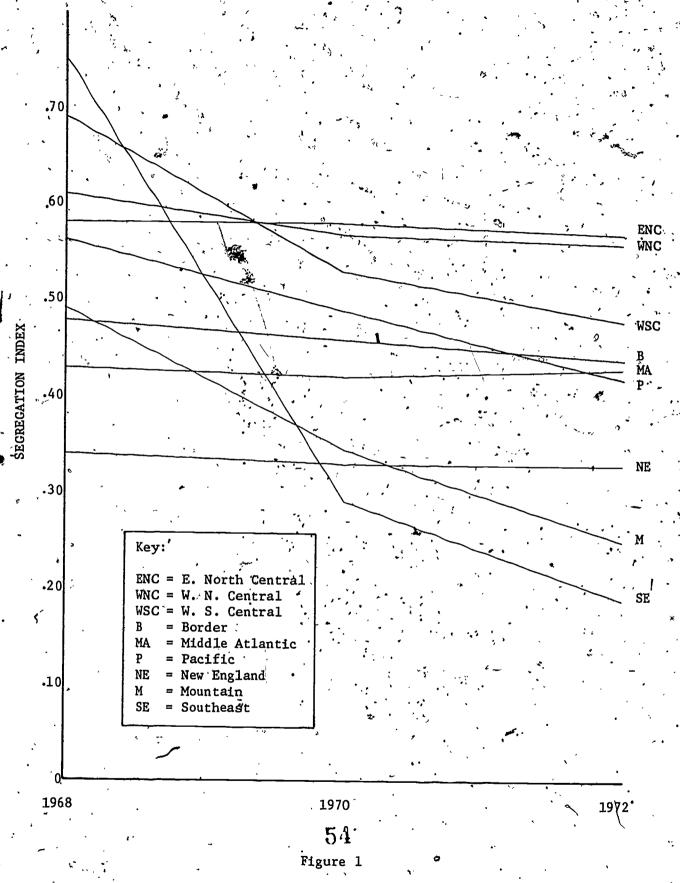
	Proportion	rtio	Schoolmates	шаtes	Black-White segregătion	White
*	lyhite	2Black	3 Whites for average black	4 Blacks for average white	5 Within district	6 _{Total}
U.S.	τί.	.16	34	.00.	.37	, , 56
New England	.92	90° ′	.47	.03	.33	67.
Middle Atlantic	. 78	•16	. 28	90.	.43	7.9 •
Border	.79	.21	.28	20.	77.	•65
Southeast	. 89	•30	. 44.	•19	61.	.35
West South Central	9/• *	.17	.28	90.	.48	•63
East North Central	. 98•	.13	.28	, S.	.57	.67
West North Central	-89	60.	.30	.03	95.	99
Moúntain	8.	•03	.52	• 02	.25.	.35
Pacific	.75	80.	* .29		.42	.61

contact and the segregation in each of the regions. But the varying changes can best be seen via a graph. Figure 1 shows the trends in average segregation within school districts (comparable to column 5 of Table 2 and Table 7) in each region over the three points in time, 1968, 1970, and 1972. There is a radical drop in the Southeast, from highest at .75 in 1968 to lowest at .19 in 1972. Among the other regions, there are rather large declines in West South Central, Mountain, and Pacific regions. In New England, Middle Atlantic, and East. North Central regions, there has been virtually no change in segregation. These trends show that school desegregation during this period (the period during which most desegregation took place) was almost wholly a southern affair, with the far West being the only exception. This concentration in the South was of course largely the consequence of federal requirements, supported by legal decisions in the courts, aimed at removing segregation where dual school systems had not been eliminated. The graph suggests, however, that the segregation removed was not only that due to dual systems; it was also that due to individual residential location within districts that has led in the North to within-district segregation of .40-.60

But apart from having occurred primarily in the South and to a lesser extent in the Far West, how did desegregation proceed in districts of different sizes? Figure 2 shows the changes in average within-district segregation in districts of each size over this four-year period. The results are striking: Districts greater than 100,000 in size changed very little; and the amount of change increased steadily as the district size decreased.

Among districts 10,000 or below in size, segregation is small indeed, less than .15. The graph shows the very great effectiveness of desegregation policies in the smaller districts (though we have not yet examined the effects





Average Within District Segregation, 1968-1972, by Region (Alaska and Hawaii omitted)



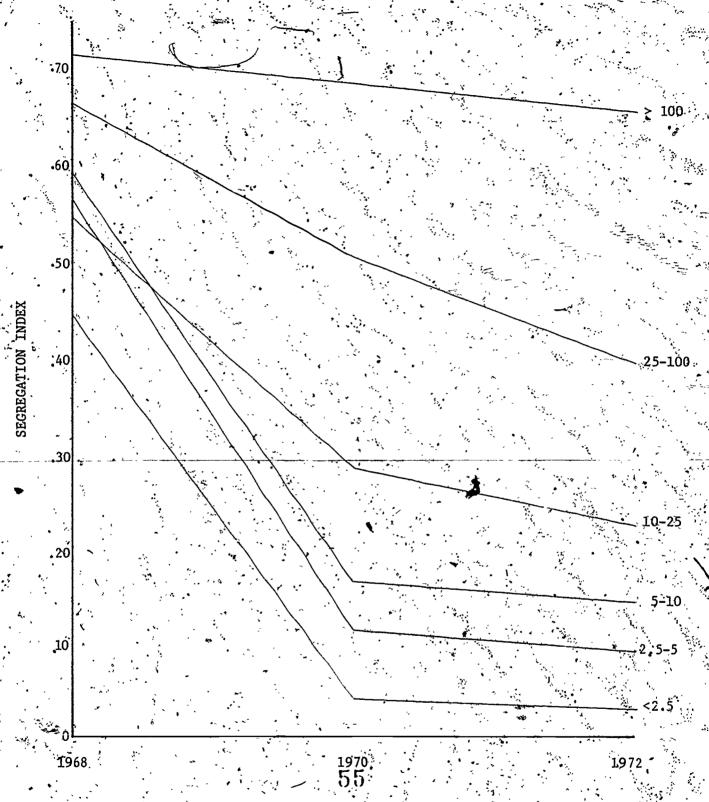


Figure 2

Average Within District Segregation, 1968-1972, by District Size, (Enrollment in thousands)



on total segregation), and the much lesser effectiveness in the largest

But these differential changes in different sized districts can be somewhat misleading because of the fact that desegregation policy was located primarily in the South, and most of the blacks in smaller districts were located in the South. The trends may be seen by a table (Table 8) for segregation by district size in each region in 1972, for comparison with Table 4 for 1968. The comparison shows that, as suggested by Figure 2, great amounts of desegregation did take place in small districts in those regions where small-district segregation existed: the Southeast and West South Central regions. The comparison shows in addition several points: outside the South, some desegregation within districts occurred in the smaller districts, though essentially none in the largest districts. decline in segregation in Mountain, Pacific, and Border states occurred in the medium and medium-large districts, not the largest. And finally, there was a reduction of segregation in the largest districts in one region only the Southeast. As Table 8 shows, the Southeast shows not only overall the least segregation in 1972, as Figure 1 indicates, but shows lower segregat than most other regions in nearly all size districts. In a four-year period (and primarily in the two year period 1968-70), school districts of all sizes n the Southeast changed from being the most segregated in the nation to among the least segregated.

Changes in segregation at elementary and secondary levels

Earlier, Table 4 showed that in 1968 the average segregation was less at the secondary level than at the elementary level, in each region of the country. Now we can ask how desegregation proceeded in elementary and secondary schools: whether there was greater desegregation at one level than at



AVERAGE WITHIN-DISTRICT SEGREGATION IN 1972 IN EACH REGION ACCORDING TO DISTRICT SIZE

•			:			
Pacific	.78	.25	•16	•05	.16	• 05 • 05
Mountain		.25	.29	.28	60°	•03
West West North Central	78°	65°	.20	.19	, 11.	.01
East North Central	62*	09*	38	·.17 ′	_ ĆÒ•	•02
West South Central	9/2	. 24*	.31		.14	02
South- east	77.	.28	91•	13	• 00	70.
Border	•55	.43	.17	90*	εο•	.02
Middle Atlantic	•55	.53	. 22 -	:12	50°	£0 *
New England	·		•20	80.	•02	0
n.s.	. 65	, 68.	.22	.14	60°	· 60°
District Size (000)	. 001<	25–100	10-25	5–10	2.5–5	<2.5
	* * *	, ,	Page 1		ŗ	•

the other. The answer at first appears to be that the degree of desegregation was almost identical at the two levels, for as Table 9 shows, the reduction in degree of segregation in the country as a whole was nearly the same.

Table 9. WITHIN-DISTRICT SEGREGATION IN 1968, 70, 72
AT ELEMENTARY AND SECONDARY LEVELS FOR THE
U.S. AS A WHOLE

• •	<u> 1</u> 968 -	1970	197 <u>2</u>	1972-68
Elementary	.70	.51	. 45	25
Secondary	 .61	.30	.27	24

However, this apparent nearly identical reduction in segregation masks

two differences which cancel each other. Figures 3 and 4 show the changes
from 1968-72 in elementary and secondary schools region by region. In the
two regions where federal and court actions toward integration were strongest,
the Southeast and West South Central, the drop in segregation was greater in
high schools than in elementary ones. But in each of the other regions except
the Border region, the decrease in segregation was greater in elementary
schools. In fact, in four of the northern regions (New England, Middle
Atlantic, East North Central, West North Central), segregation increased
among secondary schools from 1968-70, while only the Middle Atlantic region
showed an increase in segregation among elementary schools,

This increase in segregation among secondary schools appears likely to be due to segregating movement among white families with high-school age children. One form of movement that would bring about such an increase is movement from an attendance zone serving a school with many blacks to an attendance zone serving a school with fewer blacks, but within the same school system.





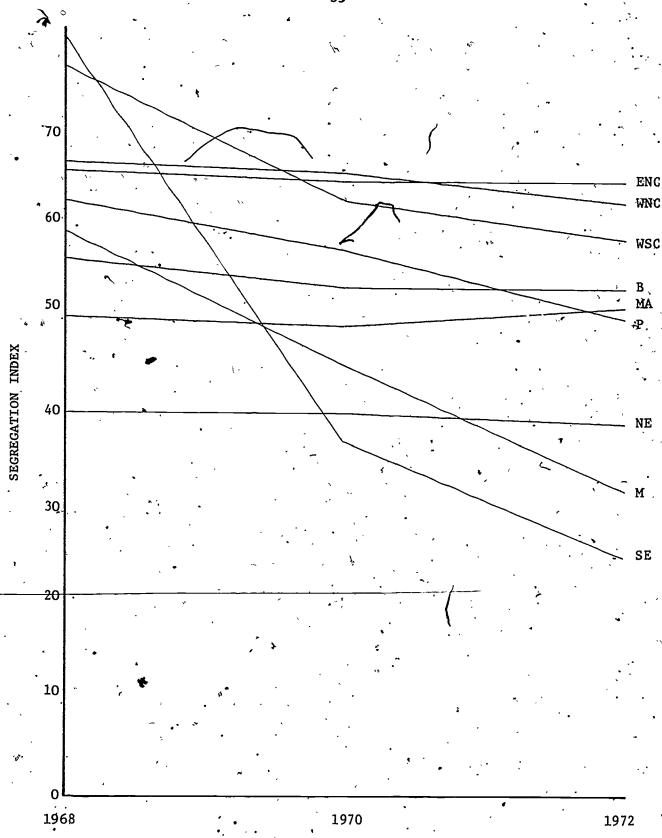
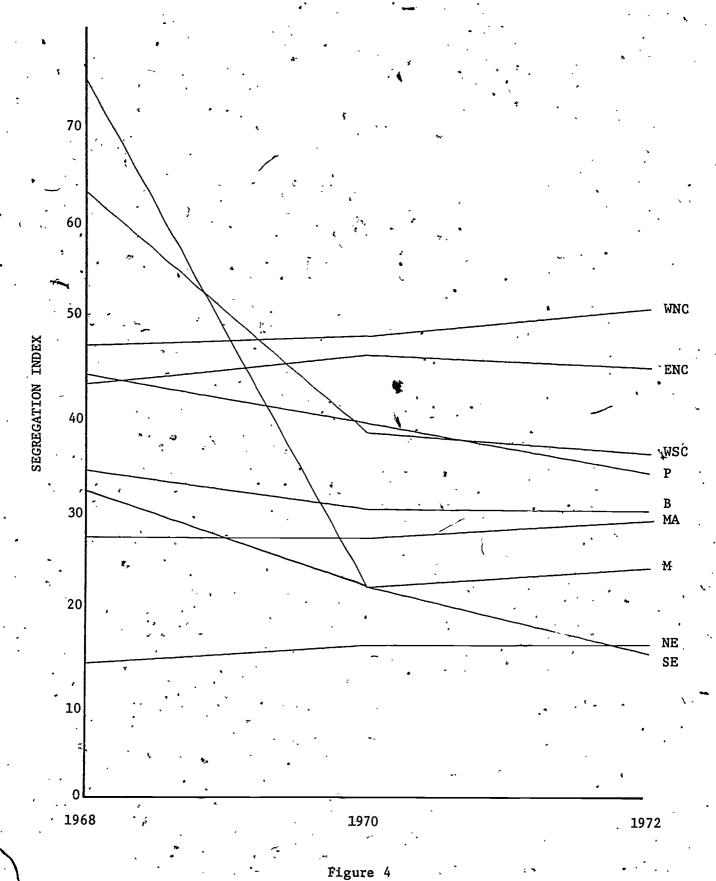


Figure 3
Within-district Elementary School Segregation, by Region





Within-district Secondary School Segregation, by Region

Another, and more likely, is differential movement of families with high school age children out of central city districts with many blacks: greater movement out of the district on the part of white families whose children were in largely white schools. 14

At this point, these possible explanations must remain conjectures. We will return to elementary and secondary differences in subsequent sections.

Change in 22 largest central-city districts

A final picture of change in within-district segregation is the change in the 22 largest central-city districts. The left side of Table 10 shows the segregation of each in 1968 and 1973, together with the change, in column 3. The table shows the dramatic reduction in some southern cities, joined by Índianapolis among the northern cities, Denver and San Francisco in the West. It shows, however, an increase in five northern cities and one Border city, showing that even during this period of major desegregation, and even within the city boundaries themselves, there were residential movements increasing the segregation in these cities. There are no more northern cities within which segregation was reduced than there are within which segregation increased.

But this does not tell the whole story, even before examining the question of segregation between districts. There have been substantial population shifts in some of these cities, and we can ask the question: given these population shifts, to what extent does the decrease in segregation, where it

The same pattern could be caused by differential movement into schools of different racial composition.

Table 10: BLACK-WHITE SEGREGATION AND CONTACT OF BLACKS WITH WHITES IN 22 LARGEST CENTRAL CITY SCHOOL DISTRICTS, 1968-1973 (Districts ranked by 1972 Enrollment)

	Se	gregatio	on Measures	Propor	tion whi	te schoolmates ige black
	¹ 1968	² 1973	3 change (1973-1968)	⁴ 1968	⁵ 1973	6 change (1973-1968)
1. New York	.47	.50	+.03	.23	.17	06
2. Los Angeles	∙.86	.79	07	07	.09	+.02
3. Chicago	.86	.88	· + . 02	.05	04	01
4. Philadelphia	•64 [°]	.72	+.08	.14	.10	04
5. Detroit	.66	.62	04	.13	.11	02
6. Houston	.89	.72	· 17	.06	.11	+.05
7. Baîtimore	. 71	.69	02	.10	.09	01
8. Dallas	.91	.69	22	.06	.15	+.09
4 9. Cleveland	.85	.87	+.02	.06	.05	01
10. Washington, D.C.	.53	.49	04	.03	.02	 01
11. Memphis	•92	,31	61	÷04	.22	. +.18
12. Milwaukee		.73	02	.18	.17	01
13. San Diego	.66	•53	*13	.26	.34	+.08
14. Columbus &	.60	•56	04	.30	.30	0
15. Tampa	78	.04	. 74	16	, 71	+•55
16. St. Louis	.82	.85	+.03	.07-	.05	02
17. New Orleans	.72	. 57 →	 15	.09	.09	0
18. Indianapolis	.67	. 39	28	.22	· .35	+.13
19. Boston	.60	-} .63	+.03	27	.21	 06
20. Atlanta	:85	.48	 37	▶ .06	:09	+.03
21. Denver	.69	.31	 38	.20	39	• +.19
22. San Francisco	.38	.07	31	.25	.27	+:02

occurred, result in an increase in the proportion of white schoolmates for the average black? The right hand side of Table 10 answers that question by comparing the proportion of white schoolmates for the average black in each of these districts in 1968 with the proportion in 1973. The figures show that although segregation decreased in 16 of the 22 cities, the proportion of white schoolmates for the average black increased only in ten of those sixteen. In four it decreased, and it remained unchanged in two. Thus although segregation was reduced in most of the 22 cities, the contact of the average black with white schoolmates has increased in less than half of them. Only in those cities where desegregation was great did the contact increase substantially -- and even in Atlanta, where there was great desegregation, from .85 to .48, the proportion of white schoolmates for the average black child increased only .03, from .06 to .09-because of the great loss in numbers of white school children in Atlanta. (In Atlanta, the white school population in 1973 was only 38% of its size in 1968.)

This last result leads directly to a set of further questions about the larger effects of school desegregation over the 1968-72 or 1968-73 period. The desegregation policies have been confined wholly to within-district desegregation. But as has been vevident in earlier examination, there was, especially in the North, substantial segregation due to residence of blacks and whites in different districts - in particular, larger proportions of blacks in large districts and larger proportion of whites in small districts. We can ask, then, what has been the trend, over this period of time, not merely in within-district segregation, as examined so far, but in overall segregation. And we can ask just what has been the change in segregation between districts during this period. Has it increased, as appears likely,

and if so, to what extent? Finally, we can ask just what has been the effect of desegregation within districts on the behavior that increases segregation between districts: the movement of whites from districts with high proportions of blacks and low segregation to districts with smaller proportions of blacks.

The importance of these questions for educational policy lies in the fact that the distribution of children by race in schools is a result not merely of policies by the Federal government, nor of court orders, nor of policies by state and local governments. It is also the result of individuals' decisions about where they will live, and about whether they will send their children to public or nonpublic schools. Increasingly, as incomes increase, more families have these options open to them, though residential options are more restricted for black families due to residential discrimination. Thus the resulting distribution of children among schools is the result of the interaction of the collective decisions by governmental units and the individual family decisions. In areas of economic policy, governments have recognized that final outcomes are not merely the direct result of a policy, and are as concerned with the indirect effects of a policy as with the direct ones. In areas of social policy that are not economic, they usually have not, and have proceeded blindly, as if the policies directly controlled the final outcomes.

School segregation can show well these indirect effects, because the indirect effects have their principal impact on the distribution of whites and blacks among districts, and thus upon segregation between districts, while the direct effects of government policy have been on the distribution of whites and blacks among schools within a district. We have examined the

As suggested in the elementary-secondary comparisons, the indirect effects in the form of residential movement can also have their effects on segregation within districts. The only protion of the indirect effects that the present analysis can measure is that which has its effect on segregation between districts.



direct effects and in the right half of Table 10 taken a glimpse at the indirect effects. We will now turn to examine these indirect effects in more detail.

CHANGES IN TOTAL SEGREGATION AND SEGREGATION BETWEEN DISTRICTS

Figure & shows the changes in total segregation in the U.S. as a whole and in each of the regions shown in Figure 1. These changes show roughly the same patterns as the within-district changes in Figure 1, but there are some important differences. First the regions are more tightly bunched in overall segregation in 1968 than in within-district segregation. Secondly, the decreases in overall segregation, among those districts that do show a decrease, are somewhat less than changes in within-district segregation. This reflects the fact that while there were reductions in segregation within districts, due to desegregation policies, there were at the same time increases in segregation between districts, due primarily to the movement of white students to districts with few blacks.

This counterbalancing increase in segregation can be seen more directly by examining the within- and between-district segregation in 1968 and 1972 in each region. As Table 11 shows, the within-district segregation has declined in every region except Middle Atlantic, where it remained constant, while the between-district segregation has increased in every region except Border, where it remained constant. In 1968, the within-district segregation

The between-district segregation is calculated just as in equations (2) and (3), except that the units over which interracial contact is calculated in equation (2) are not schools, but school districts. It should be noted that the total segregation is not the sum of within-district (which is an average over districts, weighted by the proportion black in each district) and between-district segregation. Total segregation over a region is the segregation among schools calculated over the whole region, as if there were no school districts. (It would be the sum of within- and between-district segregation if the average for the former were weighted in a different way.)



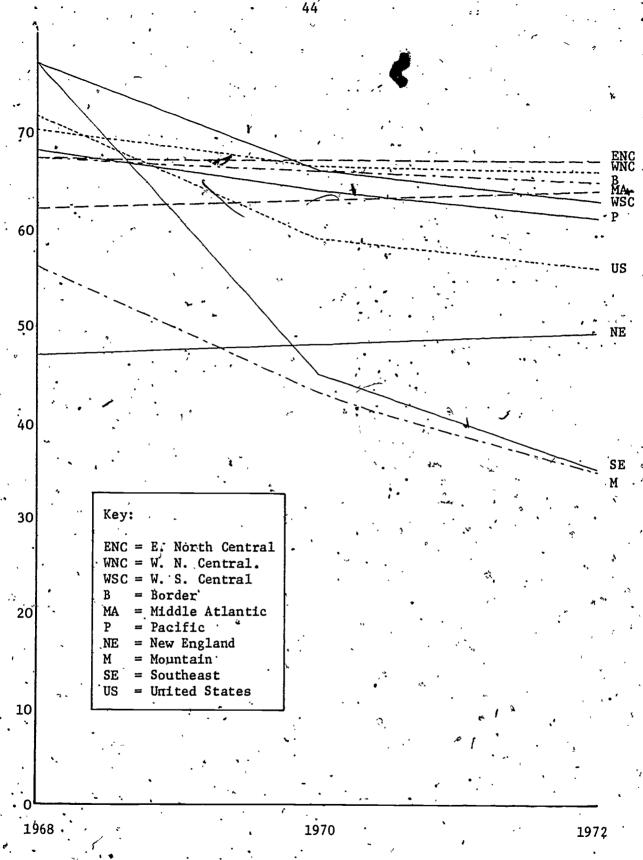


Figure 5

Average Total Segregation, 1968-1972, United States, and by Region (Alagka and Hawail omitted)

SEGREGATION INDEX

Table 11. CHANGES IN WITHIN-DISTRICT AND BETWEEN-DISTRICT SEGREGATION IN 1968 AND 1972 IN EACH REGION

		• •	<u> </u>				
	With	nin-dist	rict	. Betwe	en-distr	ict	•
	1968 (1)	1972	Change (3)	1968 (4)	1972 (5)	Change (6)	
United States	.63	.37	26	.32	.35	+.03	* *
New England	.34	.33	01	. 26	.31	+. 05	
Middle Atlantic	.43	.43	.00	•39	.44	+.05	
Border	.48	.44	04	.48*	48	: :00	
Southeast	.75	. 19	56	.18	.22 ·	+.04	•
West South Control	/ .69	. 48		.32	.37.	+.05	
East North Central	.58	. 57	01	.30	.32	+ . 02	
West North Central	61	. 56	÷.05	.35	.39	+.04	•
Mountain	.49	. 25	24	.15	.17	+.02	,
Pacific	.56	. 42	14	, .30	.34	+.04	•
1		,			's r		

46

was greater than the between-district segregation in every region; by 1972 the between-district was greater than the within-district in three of the nine regions. Thus the segregation that reflects residential separation into different school districts shows a steady increase throughout the country.

The between-district segregation measures can also be helpful in a further examination of changes at the elementary and secondary levels. Earlier, in Figures 3 and 4, differential changes in segregation were apparent at elementary and secondary levels, with increases in segregation occurring in several regions for secondary schools. These increases were increases in segregation wholly among schools within the same district. A second way of looking at the changes occurring at elementary and secondary levels is to examine changes in the between-district segregation in each region at these two levels. If between-district segregation is greater at the elementary level, it indicates that fewer white and black elementary school children live in the same school districts than is true for secondary school children. If the increase from 1968 to 1972 in between-district segregation is greater at the elementary level, it indicates that over this period the movement of white students out of districts with many blacks was greater at the elementary level than at the secondary level.

The comparisons of elementary and secondary levels in 1968 show that in every region but the Southeast, the between-district segregation was greater at the elementary level than at the secondary level. This indicates that elementary children were more residentially segregated by race throughout the country than secondary children were—a strong indication that the greater within-district segregation found earlier at the elementary level is not due merely to the smaller size and greater neighborhood focus of the elementary school, but is due to a greater tendency to segregate at the elementary level. For



Table 12. BETWEEN-DISTRICT SEGREGATION IN 1968
AND 1972 IN EACH REGION FOR ELEMENTARY
AND SECONDARY SCHOOLS

<u> </u>	<u></u>		rain y≰ rain	
	Elementary		Secondary	
	1968 1972 CI (1) (2)	1968 (3). (4)	1972 Char (5) (6)	M
United States	.33 %.37 🖔 🛴	1.04	.34 +.6)2
New England	27 .30	+.03 .19	.24 5 +:0	95
Middle Atlantic	.41 ,45	÷.04 .30	.40 +.1	Lo
Border	.49 .50	+.01 .39	.44 +.0)5
Southeast	.21, .27	+.06 · .22	. 24 +.0)2.
West South Central	.32 .38	⊧. 06 .31	.35	04
East North Central	.29 .31	.02 .26	.33 +.0)7
West North Central	.38 : .40	F.02 .33	.41 +.0	8
Mountain Y	.19 .23	.07	.10 +.0	3
Pacific	.31 .35	+.04 .27	:31 +.0)4

between-district segregation is not affected by the size of school or the size of its attendance zone, since the district contains both elementary and high schools for those who live within its boundaries.

When we look at changes from 1968 to 1972, there is an increase in every region at both levels. But the increases vary by region and by level. In the three regions where within-district segregation was most reduced, between-district segregation increased more at the elementary level. In the remaining regions, the increase was either the same at both levels or greater at the secondary level.

What appears to occur is this: As suggested by the earlier data, the general movement of whites to areas with few blacks during this period was greater at the secondary level, very likely due to the greater age and affluence of families with children of high school age. But the movement in response to desegregation appears to have been greater at the elementary level, for it is only where desegregation was great that elementary segregation between-districts increased more than secondary. These inferences cannot be strong here; analysis of changes in specific districts in a later section will provide more information about the differential processes at the two levels.

WITHIN- AND BETWEEN-DISTRICT SEGREGATION IN METROPOLITAN AREAS

Another way of seeing what is happening in school segregation in the largest metropolitan areas is to examine trends in the segregation between different school districts in the metropolitan area. Most large cities have a separate school district from that of the surrounding suburbs (although many districts in the South are countywide). And just as there is racial segregation due to blacks and whites attending different schools in the same district, there is racial segregation due to blacks and whites living in different districts. Although the former (within-district segregation) has been reduced in a number of cities, especially in the South, the latter (between-district segregation) has been increasing in each of the metropolitan areas containing the 22 largest central city districts except for Washington, D.C.

Table 13 compares the within-district and between-district segregation in each of the 22 largest central city districts and their metropolitan areas in 1968 and 1972. In addition, the trends in between-district segregation exhibited brom 1968 to 1972 are projected forward to 1976 in a simple linear projection. The data show that already in 1972, the between-district segregation is substantial in many of these metropolitan areas; for example, it is greater than .40 in nine of them. In Washington, D.C. and San Francisco, it

Data are available, as in other tables, for 1973 for these central city districts, but cover only some of the non-central city districts in 1973.

Thus 1972 comparisons must be used. Unfortunately, 1974 data, which will soon be available, is on an ever more restricted sample.

Table 13. BLACK-WHITE SEGREGATION AMONG SCHOOLS WITHIN CENTRAL CITIES AND DISTRICTS IN THE METROPOLITAN AREA

-	19	968	19	72	Projected*
	·Within	Between	Within	Between	Between
New York	.47	.28	.48	.34	*41
Los Angeles	:86	26	.8 0	.28	.31
Chicago	.86	.40	.87	-48	.55
Philadelphia	•64	.39	•70	.44	48 3
Detroit	•66	.47	.64	•57	.67
Houston	.89	. 15	.74	.26	.37
Bal timore	.71	.38	69	- 42	.46
Dallas	.91	16	.72	. 26	.36
Cleveland	. 85 ·	.43	.87	, •47	.51
Wash., D.C.	. •53	.66	.47	•59	•52
Memphis	.92	.04	.79	`•05	.06
Milwaukee	.76	.15	.76	•21	27
San Diego	. 66	.06	.55	• 07	.07
Columbus, 0.	.60	.12	.58	. •14	.16
Tampa	.78	•01	.03	.01	.01
St. Louis	.82	•47	.85	•54	.61
New Orleans	.72	~ .24	.61	• 32	•41
Indianapolis	•6.7	.19	5,7	. 25	.31
Boston	•60	.21	. 64	• 28	34
· Atlanta	` • • 85	, •36 v	.63		.65
Denver	.69	.21	.33	• 26	.31
San Francisco	.38	.40	.08	•46	.52

^{*}Projections are simple linear projections, which over small ranges and in the absence of sharp actions, such as large-scale desegregation over the whole etropolitan area, are sufficient for rough projections.

exceeds the segregation within the central city district itself. Furthermore, the projections of these trends to 1976 show that it may be expected to grow substantially in many metropolitan areas. And in two metropolitan areas in addition to Washington and San Francisco-Detroit and Atlanta-it will exceed the within-district segregation of these cities (assuming that the latter does not change). These projections indicate that the segregation of the future in metropolitan areas is as much a matter of segregation between districts as it is a matter of segregation within districts.

The Washington metropolitan area, as the one metropolitan area in which between-district segregation is decreasing, is especially interesting, because it illustrates the kind of process that may be expected to occur in many metropolitan areas as an outgrowth of present patterns of within-district school desegregation, and continuing residential segregation. Washington schools became almost completely racially homogeneous (6% white in 1968 and 3% in 1973), with the between-district segregation of whites and blacks increasing (highest among all these cities in 1968 and 1972), until finally the between-district segregation had nowhere to go but down. This pattern, of course, involves the central city first turning nearly all black before there is reduction of the city-suburb segregation.

All the changes described so far suggest a strong individual response to school desegregation on the part of families, especially where desegregation has been great. Direct evidence, however, lies in the tendency of white families to move when desegregation occurs, either to a district with fewer blacks, or to a district in which there is greater segregation—in either case, keeping the proportion of black schoolmates for its children low. What do the data show about the movement of white children out of the central city districts when desegregation occurs?

Of course, desegregation within Boston in 1974 and in Detroit in 1975.

'reduces sharply the within-district segregation in those cities.



THE SIZE OF INDIVIDUAL SEGREGATING RESPONSES TO DESEGREGATION

It is clear from the preceding sections that there is a segregating process occurring through individual movement, primarily of white families, from schools and districts in which there is greater integration or a greater proportion of blacks, to schools and districts in which there is less integration or a smaller proportion of blacks. The consequences of this, of course are to partially nullify the effects of school desegregation as carried out by various governmental or legal agencies.

What is not yet clear is whether desegregation itself induces an increased movement of whites from the desegregated district. This is a difficult but important question to answer, because desegregation in particular school districts is a direct outcome of social policy or legal rulings, and it is important to ask whether there are indirect consequences of desegregation itself which partly nullify it, and if so, what the size of this response is under various circumstances. 19

There have been several studies of the effect of school segregation on the loss of white children from the desegregating school system. In an attitude survey of parents in eight Florida countywide desegregated school districts, one group of authors (Cataldo et al., 1975) concluded that when the racial composition of schools is less than 30% black, almost no whites leave; but beyond 30% a higher proportion leave. Mercer and Scout in a comprehensive (as yet unpublished) survey of white school population changes in California districts between 1966 and 1973 found no relation between population changes and the amount of desegregation undergone in the district. unarles Clotfelter (1975), in contrast, shows that desegregation in Mississippi had a significant effect on private school enrollment, an effect that increased with increasing proportions of blacks in the schools. Reynolds Farley (1975) used the same OCR data used in our analysis, but only up to 1972. He found no relation of school integration to white population loss for 125 cities with 100,000 or more population and at least 3% blacks, and also for the largest northern and southern cities. His methods. differ, however, from our own in several respects, particularly in our yearby-year examination contrasted to his five-year examination.

The question is difficult because casual observation shows that desegregation has evoked differing reactions in different cities, and because desegregation has taken place in very different settings. For example, in many areas of the South, school systems are countywide, encompassing both a city and the surrounding suburbs. Leaving a desegregated system in that setting entails leaving the public school system itself, or a rather distant mowe (unless adjacent counties have also desegregated, which was a common occurrence in the early 1970's in the South). This, of course, is more difficult than a move to a separate predominantly white suburban school system, which is the common pattern in the North. Another variation is in city size, which creates nearly a qualitative difference in the character of desegregation. For full-scale desegregation in a large city entails mixing student populations that are much more socially distinct and more residentially separated than in small cities.

Additional complications include these:

- a. Most desegregation in this period took place in the South, so that except as there was a similar response in those few places in the North that did segregate, the generalization of results to northern cities must remain a question.
- b. There was a general loss during this time of whites from central cities, a loss which preliminary analysis indicates is greater as the size of the city is greater, and as the proportion black in the city is greater.
- c. The available data show simply the student populations of each race for each of the six years, 1968-73, so that only changes in student populations are directly measured. This is not exactly the same as movement, although something about net movement of a racial group out of the district's

schools can be inferred from these measures of gain or loss. 20

d. If there is a loss of whites when desegregation occurs, it is not clear what the time progression of this loss is. When does it begin? Does it continue, and accelerate as the profortion white in the schools declines, or is it a one-time response which does not continue once the degree of desegregation is constant? Or does it in fact reverse itself, with whites returning to the district's schools a year or so after they have desegregated? Initial observation of particular cities which have fully desegregated suggests that a loss due to desegregation begins in the same year that desegregation takes place, but its subsequent course is less clear. Using these indications from individual cities, we will first attempt to examine the loss of whites in the same year that desegregation occurs.

These difficulties are not overcome simply, but the data are extensive, showing racial composition of schools over each of the six years 1968-73. The cities to be examined are divided into two groups because of the indications that response to desegregation differs considerably in very large cities from the response in smaller ones: 1) twenty-one of the twenty-three largest

Fertility changes among whites also affect the change in numbers of white children in the schools. Fertility of whites in the years preceding this period was declining, which leads to a general decline in white student populations. This affects the constant term in the regression equations, but not the indicated effects of desegregation, unless the decline in white fertility was by some chance greater in those cities that desegregated. The covariance analyses even controls for that possibility (see p. 71).

Schools are not identified each year in a way that makes possible tracing changes in individual schools.

districts in the country classified as central-city districts; 22 2) forty-six of the next forty-seven largest central-city districts. 23

These cities are divided into two groups because the response to desegregation appears, as indicated above, different in the largest cities from smaller ones. In analyzing the question of how loss of white students is related to desegregation, we will first examine the loss that is related to reduction in segregation in the same year. The measure of segregation used is the

Washington, D.C., which has only about 3% white, is excluded because it is already racially homogeneous. Alburquerque, the 22nd largest central-city district, was excluded because the city of Alburquerque is not among the first 50 in population. Size of central-city district corresponds reasonably well to size of city, but there are some discrepancies. This set of districts included 19 of the largest 21 cities in the country by the 1970 census (excluding only San Antonio and Phoenix). In addition, it includes Denver (the 25th largest), Atlanta (the 27th largest), and Tampa (the 50th largest). The latter is a county-wide school district, which accounts for the large district size relative to city size. In preliminary analyses, only the largest 20 central-city districts were included, excluding Denver and San Francisco. However, because Denver and San Francisco were two of the few northern cities to undergo extensive desegregation during the period 1968-73, they have been included.

Richmond, Va., which annexed some suburban districts in the same year it underwent extensive desegregation, was excluded. It was not possible to tell from Richmond the exact size of white loss from the original district, although the loss in years subsequent to the annexation shows that it was substantial. Memphis also had annexation, but its size was affected only slightly, so it was not excluded.

standardized measure r_{ij} presented in earlier sections. 24

In this analysis, all years are taken together (that is, Δr_{ij} in 68-69 is related to change in whites in 68-69, Δr_{ij} in 69-70 is related to change in whites in 69-70, etc.) in an equation as follows:

(4)
$$\frac{w_{t} - w_{t-1}}{w_{t-1}} = a + b_{1} \Delta r_{t,t-1} + b_{2} p_{bt-1} + b_{3} \ln N_{t-1}$$

where:

 \mathbf{w}_{t} is number of white students in the system in year t \mathbf{r}_{t} is the standardized measure of segregation in year t \mathbf{p}_{bt-1} is the proportion black in the system in year t-1 \mathbf{N}_{t-1} is the number of students in the system in year t-1

It seems likely that the tendency of white families to leave the system is related not to a change in the "index of segregation," but to a change in the proportion of blacks in their child's school. Thus a change in the unstandardized measure of earlier sections, s_{ij} (the proportion of black children in the average white child's school), should be more directly related to loss of whites than is r However, the unstandardized measure is affected by the number of white children in the system, and thus any analysis including it must relate the change in s previous year to the loss of whites in a given year. A.discussion in Appendix 3, however, indicates how one might use the change in si as a determinant of loss of whites in the same year. The relation between the size of a change in s and the corresponding change in r ii depends on the proportion black in the system. When it is .5, which is about average for the largest 22 central-city districts, then the change in r_{ij} is twice the change in s_{ij} (since $r_{ij} = (p_j - s_{ij})/p_j$). because both the numerator and denominator of the formula for r are. affected by loss of whites to the system that r in a given year is approximately independent of loss of whites in that year.

The analysis is carried out for t = 69, 70, 71, 72, 73. They are taken together to obtain an average effect over the five years, because among the 22 cities, massive desegregation in any one year in one city can distort results for that year. The two additional variables of proportion black in the system and number of students are included because these variables appear to be related to loss of whites from the system independently of the change in segregation.

Note that the independent variable measuring change in segregation $Ar_{t,t-1}$, is just that. It is not a measure of a particular form of change in segregation, such as bussing, nor even of a desegregation policy. Change in r can occur through individual movement of black or white students; and certainly the slight upward movement of segregation (as measured by r) in some northern cities is just that. However, these individual movements make only small differences in r over any year. Large negative values for r are due to desegregation policies instituted in that city. Although the term "desegregation" to a civil rights lawyer may mean only the move to full racial balance in all schools, it is important to temember that the desegregation variable used in this analysis refers to a reduction of any size in the index of segregation.

The results of the analysis are presented in Table 14. The table presents the coefficients to the above equation for the largest 21 central-city systems and the next 46, along with standard errors of the coefficients and amount of variance accounted for. To gain some sense of the magnitude of the effects represented by these coefficients, we can express what the expected yearly rates of loss of white students would be in various circumstances. It is important to remember that these are average effects, which

Table 14. REGRESSION COEFFICIENTS FOR ANALYSES OF WHITE STUDENT LOSS TO CENTRAL CITIES

•			
	- Largest 21	Next 46	•
Equation 1	•	•	
New York		· · ·	, ,
. ΔR	.277(.062)	.091(,031)	
Prop. black	135(.028)	086(.151)	
· 1n N	.001(.001)	~.·047(.011)	
Constant	•003	.503	١,
			•
\mathbb{R}^2	.28	.24	
Number of observations	(103)	(239)	
		, and interaction of desegrega	tion
with South	egregation in publ	, and interaction of desegrege	(CIOH)
with South	•		
	-		3
		·	• .
Equation 2			
			•
ΔR	.195(.158)	.008(.151)	
Prop. black	-:047(.041)	033(.019)	•
In N	, .007(.008)	042(.011)	
R SMSA	 162(.052)	109(.024)	
ΔRxS	.144(.172)	.122(.152)	
Constant	064	' . 450	•
	\$ \$ *		
· R ²	.35	:29 : \	•
Including interactions of	desegregation with	proportion black and inter-d:	istrict
segregation, and also incl			
Equation 3		/	•
	•		
ΔΚ	460(.187)	147(.173)	
Proportion black	.050(.037)	027(.022)	
In N	.003(.007)	041(.011)	
III N	1005(1007)	-4041(4011)	
RSMSA	-,208(.045)	101 <i>(</i> .029)	
A DesGeneral			
Δ RxSouth	.146(.201)	.108(.165)	
Δ RxProp. black	1.774(,313)	.406(.254)	
Δ RxR _{SMSA}	.544(.501)	.664(.385)	
•		•	, .
South	006(.010)	001(.007)	. •
Constant	 037	.43337	. •
-*	, at 1		

 \mathbb{R}^2

differ from city to city, as will become apparent in subsequent analysis.

- For a city with the average number of students, with no blacks
 and no reduction in segregation, the expected loss per year is:
 - a) Largest 21: (gain of) 0.3% of whites present at beginning of year (average number of students is 169,000)
 - b) Next 46: 1.3% of whites present at beginning of year (average number of students is 58,000)
- 2. Additional expected loss if the city is 50% black:
 - a) Largest 21: 6.8% of whites present at beginning of year
 - b) Next 46: 4.3% of whites present at beginning of year
- 3. Additional expected loss if the city experiences a decrease of 20% in the index of segregation in that year: 25
 - a) Largest 21: 5.5% of whites at beginning of year
 - b) Next 46: 1.8% of whites at beginning of year
- 4. Additional expected loss if a city was twice its size:
 - a) Largest 21: (gain of) .07% of whites present at beginning of year.
 - b) Next 46: 3.3% of whites present at beginning of year

Taking the first three losses together, the expected loss of whites from a city system with 50% blacks would be:

A decrease of .2 in the index of segregation is approximately equal to an increase of 10% in the black schoolmates of the average white in the system if the proportion is .50.

For the largest 21:

For the next 46:

with reduction of .2 in segregation: (-) 0.3% + 6.8% + 5.5% = 12.0% with no change in segregation: (-) 0.3% + 6.8% = 6.5%

with reduction of .2 in segregation: 1.3% + 4.6% + 1.8% = 7.7% with no change in segregation: 1.3% + 4.6% = 5.9%

These results suggest that the impact of desegregation is quite large for the largest 21 districts, of the same order of magnitude as other effects; but that for the next 46 cities, the impact is much less, considerably smaller than that due to other factors. (The average loss of whites per year in the largest 21 cities was 5.6% of those present at the beginning of the year, and in the next 46, 3.7%.) It should be remembered also that this is an effect for the year of desegregation only; we do not yet know about subsequent effects.

But how does a decrease of .2 in the segregation index compare to the actual largest declines that occurred in segregation in these cities in any single year? One way to get a sense of this is, as stated earlier, from the fact that in a city with .5 blacks in the schools, an increase of 10% blacks in the average white child's school is equivalent to a decrease of .2 in the segregation measure. To give another sense of the magnitude of a change of .20, the cities among the 21 largest districts are listed below in which a reduction in segregation of .10 or more occurred in any single year, together with the year it occurred:

<u>City</u>	Year	**	Reduction in segregation
Houston	69-70	and the second	.11
Dallas	70-71 L		.19
Memphis	72-73	V. "	.48
Татра	70-71	میست	.52
Indianapolis	72–73		.18
Atlanta	69–70	•	.11
•	72-73		.15 •
Denver	68-69	٠	.22
San Francisco	70-71		16

Eight of the 21 cities underwent a reduction in segregation of .1 or more in any single year, and three a reduction of .2 or more (and seven of them underwent a reduction of .2 or more over the total period 68-73).

Among the next 46, 13 underwent a reduction of .2 or more over the whole period, and 10 of these a reduction of .4 or more. Many cities, of course, underwent no desegregation at all, and their segregation indices remained approximately constant, or increased.

A next step which can be taken (or two steps at once) is to attempt to consider two more factors which differ among cities which have experienced desegregation, factors which may affect the rate of loss of whites. One is location in the South or North. This factor we do not expect to affect the general loss of whites, but only their loss when desegregation occurs. Thus we can ask what is the effect of desegregation of .2 for southern cities,

and what is the effect for northern cities? Second, cities differ in the degree to which a suburban alternative is available. Some cities, either because the school district encompasses all or most of the metropolitan area, or because the rest of the metropolitan area is about the same racial composition as the central city, have no such available havens. Thus we can ask how the loss of whites is affected by the racial disparity between city and suburbs, or what we have called in an earlier section, the between-district segregation.

A regression equation which includes these two variables gives results as indicated in Table 14, which allow the following estimates:

Estimated increase in loss of whites in one year as a function of reduction of .2 in index of segregation:

•	_			South	•	North
Largest'21		:	٧	6.8%		3.9%
Next 46	•		• •	2.6%	` .	0.2%

These results show that indeed there has been a greater loss of whites when desegregation has taken place in large southern cities than when it has taken place in large northern cities, with the estimate nearly twice for the southern cities what it is for northern ones. For the smaller cities, there is a similar difference, with essentially no loss estimated for northern cities. A caution must be introduced in these estimates: as the table shows, the coefficients on which the estimates are based are not as large as their standard errors, so that the estimates should be—taken as only a best guess. The reason, of course, is that only a small number of cities in both North and South in both samples have experienced high degrees of desegregation. The fact that the results are similar for both sets of cities does, however, provide some additional confirmation.

Estimated increase in loss of whites in on year as a function of 50% black in city school district and between-district segregation of .4:

Between-district segregation of .4

Largest 21 2.3% 6.5%

Next 46 1.6% 4.3%

The estimates show that the loss which was earlier seen as resulting from the proportion black in the city can in fact in considerable part be accounted for by the between-district segregation, which is a function of the difference. between proportion black in the city and that in the suburbs. Thus the frequent observation that the loss of whites from central-city school systems depends on the existence of suburban systems with high proportions of whites is certainly confirmed by these data. Note, however, that this is a generally greater loss of whites under such conditions, not related to the period of desegregation. The question of whether there is additional loss at the time of desegregation can be answered by a further analysis, to which we now turn.

In this analysis, we include not only the possibilities that have already been examined, but three others as well:

- a) The possibility that there is a generally different loss rate of whites from central cities in the South than in the North, in the absence of desegregation
- b) the possibility that desegregation produces different rates

 of loss when the proportion black in the city differs (interaction between proportion black and change in segregation)
- c) the possibility that desegregation produces different rates

 of loss when the inter-district segregation differs

 The estimates of these effects can best be expressed as the total estimated



loss rates under different illustrative conditions. We will consider what the loss rates would be for the average size district in the South for each group of cities where the reduction in segregation is .2, as in earlier illustrations. Estimates are given for various combinations of proportion black in the central-city district, ranging from .25 to .75 and between district segregation ranging from 0 to .4.

The tabulation below shows the estimated loss rates under these various illustrative conditions.

Between-district segregation		argest ortion .50		prop 25	Next 46 ortion	,
0.	2%	107	17%	1%	27.	3%
	8	• 16	. 24	5.	7	8
.4	1.5	22	. 30	10	J 11	13

The individual coefficients from Table 14 if interpreted alone without combining both the interaction terms and the main effects are not meaning Thus the negative sign on the coefficient for Δ r is not itself interpretable, without the compensating positive coefficient of A rx proportion black. Even so, particular combinations of values for the variables would show results that would seem unlikely on their face (for example, integration at very low proportions black apparently bringing about a small gain in proportion of whites in city schools, rather than a loss, or increased proportion black apparently bringing about a small gain as well). This is probably due to misspecification of the equation -- for example, some nonlinearity in effect of proportion black, not allowed by the equation as specified, or to a tendency of two highly correlated variables to have coefficients that polarize, due to minor sampling fluctuations. (See "Instabilities of Regression Estimates Relating Air Pollution to Mortality," Gary C. McDonald and Richard C. Schwing, Technometrics, Vol.15, No.8, Aug. 1973.) Finally, there is the fact that some coefficients would give meaningless values of rate of loss (e.g., over 100%) for extreme values of the independent variables (e.g., Δ r = 1 and proportion black = 1.0). This is due to a deliberate misspecification of the equation. The appropriate dependent variable would have been logarithm of (whites in year t/whites in year t-1), rather than (whites in t - whites in t-1)/(whites in, t-1). The latter was used because it gives almost the same results as the former, and the coefficients are more directly expressible as additions to a given rate of loss.

These estimates are for a city in the South. In the North the losses at the time of reduction in segregation are estimated to be 3.57 less in the largest 21 cities and 2.3% less in the next 46. However, it should be recalled that more desegregation took place in the South, so that the estimates are less reliable for morthern cities. It should also be noted that some combinations of proportion black and between-district segregation are impossible or quite unlikely, such as .25 proportion black and .4 between-district segregation, or .75 black and 0 between-district segregation.

The most striking from these illustrative estimates are two effects.

One is the large increase in the effect of desegregation on rate of white loss as the proportion black in the district increases. This effect exists in both size cities, though it is more pronounced in the largest 21. There is a similarly large increase in the effect of desegregation on white loss if there are suburban alternatives, as measured by a high value for between-district segregation. In this case, the estimated augmentation effect is high both for the smaller cities and for the large ones.

The analysis above does not, however, answer certain other questions, such as the losses of whites in subsequent years. To examine this question, we can slightly modify equation (4), and examine the loss in a given year as a function of the desegregation not only in that year, but in preceding years:

$$\frac{\mathbf{w_{t}} - \mathbf{w_{t-1}}}{\mathbf{w_{t}}} = \mathbf{a} + \mathbf{b_{11}} \Delta \mathbf{r_{t,t-1}} + \mathbf{b_{12}} \Delta \mathbf{r_{t-1,t-2}} + \mathbf{b_{2}} \mathbf{p_{b}} + \mathbf{b_{3}} \ln N \qquad (5)$$

and two more equations, including respectively b_{13} $\Delta r_{t-2,t-3}$, b_{13} $\Delta r_{t-2,t-3}$ $+ b_{14}$ $\Delta r_{t-3,t-4}$, and b_{13} $\Delta r_{t-2,t-3}$ $+ b_{14}$ $\Delta r_{t-3,t-4}$ $+ b_{15}$ $\Delta r_{t-4,t-5}$. The last of the equations, which examines effects of desegregation over the preceding five years, is the most complete, but gives the least accurate estimates, since it is based only on the loss in 72-73, and includes only



Thus, only the first four equations will be used and only 21 observations. the first three coefficients, for which there are multiple estimates, will be calculated by averaging over the equations. These results will give an indication of the time pattern of white loss following desegregation. 27 indication must be preliminary, because asking as detailed a question as this of data which consist of a limited number of desegregation experiences, some of which occurred only in 71-72 or 72473, cannot provide a conclusive answer. Nevertheless, it is useful to attempt to obtain even a preliminary answer to the question. Table 15 shows for successively greater numbers of terms, up to three, the estimates for coefficients. When these coefficients are averaged as described earlier to attempt to estimate the succeeding effects of integration, the results are not very satisfactory, nor even highly consistent, except for the first term (the year in which integration took place). The second year shows essentially no effect while the third year shows an improbably large positive effect. 28 Thus, this attempt must be regarded as unsuccessful for statistical reasons (probably the particular years of desegregation associated with estimates for particular lags). The most that can be said is that there is no evidence for a return to city schools in

The possible indirect accelerating effects of desegregation on white loss through its effect on increasing the proportion black (p_b in equation (5)) is not reflected in the coefficients b_{11} through b_{15} . That effect can be calculated to determine, for example, the effect in year 2 through $\Delta r_{t,t-1}$ in Δp_b and then the product b_2 Δp_b .

One reason for suspecting estimates of Δr_{t-2} is that they are heavily dependent on changes in segregation that took place in 1971-72, and among the 21 cities, there were no large changes during that year.

Table 15. FURTHER ANALYSIS RESULTS

(Equations include proportion black and inter-district segregation)

Large 21 Years of desegregation	Δ R,-	△ R _{t-1}	ΔR_{t-2}	R ²
69-73	.317(.061)			.;'.35
70-73 71-73	.325(.070)	.008 (1082)	471. 400	.36
72-73	.252(.059) .561(.081) ·	206(.138) 166(.133)	.774(.196) .772(.190)	.56 .81
				- 1/
Next 46.				
69-73	.127(.032)			.29
70 - 73 71 - 73	.111(.034)	.041(.034)	0114 020	. 25
72-73	.106(.033) .131(.052)	.032(,051) 023(.062)	011(*.038), 027(*.047)	.36

Estimated added losses of whites due to desegregation in first year of desegregation, in second year, and third year, assuming reduction of 12 in segregation index.*

· ·	,	First year	* **	Second , year	Third year	.*
Large 21 Next 46		7.3%	,	1.8%(gain) 0.6%	15.4% 0.4(gain	

*Unweighted averages of above estimates were used because standard errors were nearly alike.

the second or third year after desegregation nor any strong evidence for a delayed loss in the second and third years after desegregation. (There is, however, an indirect effect in subsequent years through the increase in proportion black that occurs during the first year.)

There is another more stringent test of segregating effects of school desegregation than those we have examined so far. Each city, with its own particular housing patterns, suburban configurations, crime levels, distribution of racial prejudices, industrial growth or decline, and other factors, has rates of white loss that are specific to it. A rough test of this sort can be carried out for the largest cities by using the white student loss that occurred in each city in 1968-69, before much desegregation occurred in any of these cities (except for Denver), and observing what occurred from 1969 to 1973. For the twelve districts of the 22 which did not experience a reduction of at least 0.1 in segregation over the period 1968-1973 (and on the average experienced no change at all), loss of white students expected between 1969 and 1973, based on their 1968-69 losses, was 17% of the white students present in 1969. The actual loss during this period was 20%, only slightly greater than expected. For the ten districts which did experience desegregation of 0.1 or more, their expected loss between 1969 and 1973, based on the 1968-69 before desegregation losses, was only 10%. But their actual 1969-73 losses averaged 26% of the white students present in 1969. shows these figures for each city separately.

A more careful statistical examination of this sort may be made by introducing into the regression equation a dummy variable for each city. Since in equation (4) there are five observations for each city, the degrees of freedom in the equation are 5n - n - 3.

Table 16. REDUCTION IN SEGREGATION 1968-1973, EXPECTED AND ACTUAL LOSS OF WHITE STUDENTS 1969-1973, 22 LARGEST CENTRAL CITY DISTRICTS

<u>`.</u>			
		Proportion of Whites in 1969 Lost by 1	
District	Reduction in Segregation	Expected (based on city's 1968-69 loss)	· Actual
1. New York	(+) .03	.11	.16
2. Los Angeles .	.07	1.15	.20
3. Chicago	′ (+) .02	.16	.25
4. Philadelphia	.08		.13
5. Detroit	.04	.33	.30
6. Houston*	.17	.19	.29
7. Baltimore	.02 ·	.10	.16
8. Dallas	.22	.05	.25 -
9. Cleveland	(+) .02	.21	.12
10. Washington	.04	.36	-42
il. Memphis*	,61	(+) .10	.37
12. Milwaukee	.02	.07	' .16
13. San Diego*	.13.	01	.08
14. Columbus, Ohio	.04	.07 *	.12
15. Tampa*	.74	(+) .09	(+) 4.11
16. St. Louis	(+) .03	.17	25
17. New Orleans*	.15	. 14 • .	.38
18. Indianapolis*	28	.10	.24
19. Boston	(+) .03	.11	:15
20. Atlanta*	.37	.26	.59
21. Denver*	.38	.09	.20
22. San Francisco*	.31 . `	.39	33.
			<u>.</u>
*Average for 10 cities which had 0.1 or more	4	.10 3 \ -	.26
reduction in segregat	* I		
Average for 12 cities which had less than 0) . 1	.17	.20
reduction in segregat	ion.		

Expected loss equals 1 - (1-x), where x equals the proportion white students lost in 1968-69.

ERIC*

This analysis makes a somewhat different comparison than the previous In those analyses, districts which have desegregated are compared with those that have not, to discover the effect of desegregation on loss of white In this analysis, by contrast, we compare districts students to the system. that have desegregated with their own expected rates of loss in the absence; of desegregation, to discover any additional loss of whites due to desegrega-This is obviously a much more stringent test because it controls for the general characteristics of each city. The equations used in the analysis include proportion black, logarithm of number of students, and between-district segregation, with the addition of a dummy variable for each city. The results of the analysis give coefficients for Δr of .258 (.058) for the largest 21 city districts, and .143 (.034) for the smaller cities. 29 These coefficients correspond closely to those found in earlier equations, indicating that the estimate of the average additional loss rate during desegregation is a stable one, and not due to uncontrolled characteristics of the cities.

Finally, it is possible to carry out a full analysis of covariance, in which we can not only control for the characteristics of the individual cities, but also estimate the loss rate under desegregation for each city which underwent substantial desegregation. These estimates are probably as close as we can obtain to the actual effects of desegregation on white loss in the year of desegregation. They show that the estimated white loss does vary

This analysis is carried out by an equation with Δr (change in segregation), dummy variables for each city, and interactions between the city.
 dummy variable and Δr. The coefficient for each city is the same as the sum of the coefficients for Δr and the interaction term.



 $^{^{\}circ}$ 29 2 in these equations are .64 and .55 respectively.

considerably from city to city, and that the average loss rate specified earlier obscures very different loss rates in different cities. Table 17 shows the estimated loss rate in the year of desegregation if Δr were .2, for all cities listed earlier which underwent desegregation of .1 or more in a single year. These rates must still be regarded as only estimates because there are other things varying concurrently with desegregation. For three of these, proportion black, between-district segregation, and size of district, the equation has controlled the general effects; but the specific effects of each of these variables (as well as others) may differ from city to city. Nevertheless, these figures do indicate where the losses due to segregation are especially great, and where they are small.

Table 17. ESTIMATED ADDITIONAL LOSS OF WHITE STUDENTS
IN SPECIFIED CITIES

(Loss during desegregation in cities which had a Δr in one year of -.1, beyond general loss of whites in those cities. Desegregation assumed is $\Delta r = -.2$.)

Çity	Estimated loss as a percent of white students present at beginning of year
Houston Dallas Memphis Tampa Indianapolis Atlanta Denver San Francisco	(gain) 0.9% 2.5% 13.5% 2.3% 5.5% 11.0% (gain) 2.3% 4.3%
Average	4.5%

Now that we have some sense of the magnitude of the losses of whites in the year in which desegregation occurs, and how that magnitude varies among different cities, it is useful to ask just how much difference this makes in the long run in the city's population composition. For insofar as we can determine, the effect of desegregation is a one-time effect.

The present data give no good evidence that there is a continuing increased loss of whites from city schools after desegration has taken place. On the other hand, there are secondary impacts of the initial loss: it increases the proportion of blacks in the schools, which itself increases the rate of loss. And it increases the racial disparity between suburbs and city, also increasing the rate of loss. Yet these are second-order effects and their overall impact is not clear.

One way of gaining a sense of the difference that sharp desegregation makes in the racial composition of a city in subsequent years is to consider a hypothetical city with particular characteristics, and apply the coefficients of the equations to the changing population composition of the city, year by year, under two conditions: with sharp desegregation in the first year, and without any change in segregation.

We will do this with two of the equations for the large cities: the simple equation including only Δr , proportion black, and logarithm of student population (Equation 1 in Table 14); and the most complex equation, including three interaction terms (Equation 3 in Table 14).

Assumed characteristics of the district in year 0:

- 1. Proportion black = 0.50
- 2. Proportion white = 0.50
- 3. Average size student body for the largest 21 (169,000)

- *4. Suburban ring equal in size to central city, and all white (this means that initial between district segregation for SMSA is .33).
- *5. Located in North,
- *6. No overall change in student populations in SMSA; white losses from central city appear in suburbs.
- *7. No movement of blacks to suburbs.

(Starred items are relevant only to Equation 3 in Table 14.)

The population compositions of the cities will be projected under two assumptions: first, that there is no change in segregation ($\Delta r = 0$); and second, that in year 0, there is a drop of .4 in r. This would not be total desegregation in most large cities, (see, for example, Table 13) but it would reduce the segregation by about half, and in some cases more, and be very substantial desegregation.

Equation 1, including only Δr , proportion black, and logarithm of size, certainly does not include all the ways in which desegregation can have an impact on white student loss. On the other hand, Equation 3 may overstate the initial loss upon desegregation through the magnitude of the interaction terms and may understate the losses after desegregation. The two equations show, however, something about the range of effects that might be expected for a city with these characteristics.

PREDICTED PORTION BLACK IN YEAR

Year:	, 0	1.	2	á,	4	5	6 ;	7	84.	9	10
Equation 1	٠.					. •	Α.		•		
with desegregation (.4)	5	.54	.56	.58	.6Ò	.61	.63	.65	.67	.69	.70
without desegregation	.5	.51	.53	.55	.56	.58	.60	61	.637	.65	.67
	•		' .		,	2 [§]	, ;;	,	•	• • < 、	. •
Equation 3	. ,	. *	, ,	,	*			,		,	
with desegregation (.4)	. · .5*	.58 /	:60	. 62			.67		.71		.75
	5 سر		.52	 54	•55	ু-,56	.58	•59	.61	. 63	.65

We should emphasize that these projections are not intended as predictions for any city. They are intended rather to give a better perspective on what these equations imply for the impact of desegregation on the city's population composition.

The equations give considerably different projections, but perhaps the most important point is that the impact of desegregation, as a one-time impact, matters less in the overall population composition of the central city than does the continuing loss of whites with or without desegregation. According to Equation 3 from Table 14, there would be a 10% difference in the proportion black in the city at the end of ten years due to desegregation; but even without desegregation, the proportion would have increased from .5 to .65. And according to Equation 1 from Table 14, the difference due to desegregation would be only 3% at the end of the 10 years, but with about the same general increase in proportion black.

It is useful also to see the projected proportion of white schoolmates for the average black child under these conditions, and the proportion of black schoolmates for the average white in the metropolitan area. These are given below, assuming an initial segregation of .8, reduced to .4 under desegregation.

	White so	Black schoolmates for average white		
Equation 1	Year 0	Year 10	Year 0	Year 10
with desegregation without desegregation	.30 .10	.18 .07	.15 .05	.09 .03
•	•	•		
Equation 3	,	• •	•	٠,
with desegregation without desegregation	.30 .10	.15 .07	.15	.08 .04

These projections show that under all conditions, there is an extensive decline in interracial contact over the ten years. The interracial contact under desegregation is projected to remain higher after 10 years than it was in year 0 under no desegregation; but the projected erosion is great, and especially so under desegregation. Most of the intended benefits of desegregation will have been lost at the end of 10 years—in part to the loss of white students upon desegregation, but due even more to the general loss of white students from city schools, with or without desegregation. Nothing here can be said, of course, about the quality of interracial contact in the two situations.

It is important again to emphasize that these are projections for a hypothetical city with the given characteristics; as is evident in the earlier analysis, the estimated impact of changes in segregation differs from city to city, and in some cities is estimated to be absent.

Altogether, these projections emphasize what data from earlier projections have shown: that the emerging patterns of segregation are those between large cities which are becoming increasingly black, and everywhere else, which is becoming increasingly white. Desegregation in central cities hastens this process of residential segregation but not by a great deal under the conditions specified in the example. It provides a temporary, but fast eroding, increase in interracial contact among children within the central city. In districts with certain characteristics, however, (such as about 75% black and about .4 between-district segregation, as in Detroit, Baltimore, Philadelphia, or Chicago), the impact of full-scale desegregation would be, according to the estimates from page 65,

wery large, moving the city's schools to nearly all black in a single year.

What would happen in a particular city is unknown; the point here is that the white loss depends very much on the extent of desegregation, the proportion black in the central city and the black-white differential between central city and suburb.

Elementary and Secondary Schools

One final question is useful to examine before ending this quest for the effects of desegregation within large central cities. This is the differential effect on loss of whites from elementary school and from high school. The question cannot be answered with a high degree of conclusiveness, because some apparent changes in elementary or secondary school populations may have been due rather to a grade reorganization among the schools in the district. Such reorganizations are particularly likely to occur in desegregating systems and the effects on the analytical results are unknown.

Nevertheless, Equations (1), (2), and (3) from Table 14 were analyzed separately for elementary schools and high schools, with some consistency of results. In general, the elementary school losses in the year of desegregation were much more extensive than the secondary school losses. For Equation (1), where the overall effect in the largest 21 cities was estimated at 5.5% loss of whites with a -.2 reduction in segregation, the effect for elementary schools was estimated to be 20.4%, compared to only 5.3% for secondary schools. For the next 46 cities, the elementary losses were estimated at 12.8% and the secondary at 0/5%. Results for the other two equations are not inconsistent

The fact that in neither the 21 cities not the 46 is the estimate of the overall effect an average, or near an average, of the estimated elementary and secondary effects raises some question about the latter estimates. We have no explanation for this anomaly, except the possiblity or school reorganization.

with these, but are marred by the high degree of collinearity among the independent variables. The indication from these results is that the effect of desegregation on elementary school losses is rather great, considerably greater than for the secondary schools. This result should be regarded as less than conclusive, because of the unknown effects of school reorganization on numbers of students classified in elementary and secondary schools, and because the collinearity prevented strong confirmation by use of equations with greater numbers of variables. Yet the result does appear in both sets of districts, and suggests that desegregation has a particularly strong effect at the elementary school level. This, of course, is more destructive of the goals of racial integration of schools than if the loss were greater at high school levels. For if the tendency of white families to leave a desegregating system is especially pronounced in the elementary grades, then the loss will have its impact at all grade levels, as the elementary children move into high school.

The earlier analysis of changes in within-district and between-district segregation at elementary and secondary schools showed that there is greater movement both within and between districts of the sort that leads to resegregation among white secondary school students than among elementary ones. The present analysis shows that this greater movement at the secondary level is not a response to desegregation, but rather a general movement independent of desegregation, presumably related to the family's age and to its affluence. Which increases with age.

Altogether then, what does this analysis of effects of desegregation in cities indicate? Several results can be specified with some assurance:

1. In the large cities (among the largest 22 central city school districts) there is a sizeable loss of whites when desegregation takes place.

- 2. There is a loss, but less than half as large, from small cities. These differences due to city size continue to hold when the reduced opportunity of white flight into surrounding school districts in the smaller cities is taken into account.
- 3. The estimated loss is less in northern cities which have undergone desegregation than in southern ones.
- 4. In addition to effects of desegregation on white loss, both the absolute proportion of blacks in the central city and their proportion relative to those in the surrounding metropolitan areas have strong effects on loss of whites from the central-city district.
- 5. Apart from their general effect on white loss, a high absolute proportion of blacks in the central city and a high difference in racial composition between the central-city district and the remaining metropolitan area both intensify the effects of desegregation on rates of white loss.
- 6. When general rates of white loss for individual cities are taken into account, the desegregation effects still hold to about the same degree as estimated from comparisons among cities.
- 7. No conclusive results have been obtained concerning the direct effect of desegregation in subsequent years after the first. The indirect effect, however, through increasing the proportion black in the city and the segregation between the city district and suburban ones; its to accelerate the loss of whites.
- 8. The effect of desegregation on white loss has been widely different among different cities where desegregation has taken place.
- 9. Because, insofar as we can estimate, the loss of whites upon desegregation is a one-time loss, the long-term impact of desegregation is considerably less than that of other continuing factors. The continuing white losses produce an extensive erosion of the interracial contact that desegregation of city schools brings about.
- 10. The effects of desegregation on loss of white elementary school children appears considerably greater than the effect on loss of secondary school children.

All this leads to general conclusions consistent with those from earlier sections of this examination: that the emerging problem with regard to school desegregation is the problem of segregation between central city and suburbs; and in addition, that current means by which schools are being desegregated are

intensifying that problem, rather than reducing it. The emerging problem of school segregation in large cities is a problem of metropolitan area residential segregation, black central cities and white suburbs, brought about by a loss of whites from the central cities. This loss is intensified by extensive school desegregation in those central cities, but in cities with high proportions of blacks and predominantly white subtrbs, it proceeds at a relatively rapid rate with or without desegregation.

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- 3. Farley, Reynolds. "Racial Integration in the Public Schools, 1967 to 1972: Assessing the Effects of Governmental Policies."

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- 4. McDonald, Gary C., and Schwing, Richard C. "Instabilities of Regression Estimates Relating Air Pollution to Mortality."

 Technometrics, V (August, 1973).

APPENDIX 1:.

OFFICE FOR CIVIL RIGHTS SAMPLING PLAN

and

REPORT FORMS

1968

APPENDIX 1

OFFICE FOR CIVIL RIGHTS SAMPLING PLAN

All school districts with 3,000 or more enrollment (1967-68) were surveyed. Smaller school districts were selected for inclusion in the survey in a statistically random manner based on district enrollment size in the preceding school year (1967-68) as determined by the United States Bureau of the Census (1967 Census of Governments, Volume 1).

The sampling plan used was as follows:

District Enrollment	Sampling Rate	Projected Total In Each Size Category
3,000 and larger 1,200 - 2,999 600 - 1,199	100% 75% 50%	actual data 1 1/3 times actual data 2 times actual data
300 - 599 1ess than 300	25%	4 times actual data none

In addition to the above sampled districts, all districts eliminating racially dual school systems under terms of voluntary plan agreements with the Department of Health, Education and Welfare or under federal court order were surveyed regardless of school district enrollment size.

In 1968, the 8,491 school districts sampled covered an estimated 43.9% of the Nation's public school districts but they enrolled an estimated 90.8% of the Nation's public elementary and secondary pupils.

These data were reported to the Office for Civil Rights by school district superintendents and/or State education agencies. The reports were required under the regulations implementing Title VI of the Civil Rights Act of 1964. Hawaii and the Territories were not required to participate in this survey. Ninety-five school districts with federal funds terminated (as of August 1968) because of non-compliance with Title VI of the Civil Rights Act of 1964 were also excluded from the survey.

SOURCE: Directory of Public Elementary and Secondary Schools in Selected

Districts: Enrollment and Staff by Racial/Ethnic Groups, Fall 1968.

Washington, D.C., U.S. Department of Health, Education, and Welfare,
Office for Civil Rights, p. iv.

INSTRUCTIONS FOR FORM OS/CR 101 U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Office for Civil Rights Washington, D.C.

SCHOOL SYSTEM REPORT. FALL 1968 ELEMENTARY AND SECONDARY SCHOOL SURVEY Due October 15, 1968

NSTRUCTIONS. The rail 1968 Elementary and Secondary School Survey consists of two report forms. FORM OS/CR 101 for reporting system-wide data, and an Individual School Report (either From OS/CR-102 or OS/CR 102-1) for reporting individual school data. Complete Form OS/CR-101 for the School System, and an Individual School Report for each individual school. See Instructions for ITEM VI below, requiring a separate report for each campus of each school. GENERAL INSTRUCTIONS.

The data reported should reflect the facts when assignments can be considered stabilized, normally in the latter part of September. The report is due October 15, 1968.

Please use a typewriter to complete the report, if possible.

of the label affixed to the SPECIAL INSTRUCTIONS. The OCR School System Number consists of the first 10 digits of the number at the section of the label affixed to the School System Report, I orm OS/CR-101. This number should appear in ITEM II of each individual School Report is completed at the individual schools, the principals should be instructed on the correct number to place in ITEM II, of the Individual School Report.

Use the school system name your State uses in its published official listing of its school districts. The same name should be used in Item I of each Individual School Report. ITEM I.

Enter street address if different from address on label. ITEM II.

Enter City, County, State and Zip Code, if different from label. ITEM III.

Enter the name of the Chief Administrative Officer of the school system. ITEM IV.

Place an "x" in the appropriate box: ITEM V.

HEW Form 441. Has been accepted from school systems which never had, or have completed the elimination of, a dual school structure. HEW Form 441-B. Has been accepted from school systems climinating a dual school structure pursuant to a voluntary desegregation plan. Assurance of Compliance with Court Order. Has been accepted from school systems eliminating a dual school structure pursuant to an order of a Federal Court.

Enter the number of schools as the schools are organized by the local school system. If, however, a school has classroom buildings located on separate campuses (classroom buildings on campuses which are not contiguous), count each such separate campus as an individual school. File an Individual School Report for each school (or separate campus). ITEM VI.

Report the number of persons in each category. Do not use percentages. If there are no persons in a category, enter "0" for the category. Do not complete this itenfuntil each of the Individual School Reports has been completed. ITEM VII.

School System-Total. Include both minority and non-minority groups

Column 2. Column 3:

Column 4.

American Indian. Persons considered in school or community to be of American Indian origin.

Negro. Persons considered in school or community to be of African or Negroid origin.

Onental. Persons considered in school or community to be of Chinese, Japanese, or other Onental origin.

Spanish Surnamed American. Persons considered in school or community to be of Mexican, Central-American, Cuban, Puerto Rican, Latin-American or other Spanish speaking origin.

NOTE. For the purpose of this report, minority groups are considered to be mutually exclusive, place an individual in one minority

Line A. Enrolled Students. Regular day students on the current rolls of the individual schools of this school system, total of Item VII-A of Individual School Reports.

Line B(1) and Line B(2). Full-Time Professional Instructional Staff. Enter in the appropriate category the number of professional instructional staff members who work for this school system on a full-time basis.

Include. Principals, assistant principals, classification teachers, supervisors of instruction, curriculum consultants, school librarians, non-classroom teachers, audio-visual staff, guidance counselors and school psychologists.

Do NOT include. Higher-level administrators (superintendent of schools), staff members who work for the school system on a part-time basis; para-professional staff members, such as teacher aides and student teachers, non-instructional staff members, such as business, financial, attendance, health, transportation, clerical, custodial, and food service personnel.

Assigned to One School Only. Enter on line (1) the full-time professional instructional staff members who work at only one Line B(I). school. These entires should be the total of the equivalent categories reported in Item VII-B(5) of the Individual School

Assigned to More than One School. Enter on line (2) the full-time professional instructional staff who work at more than Line B(2). one school.

SUBMISSION OF REPORT. This report should be submitted to HEW in accordance with the forwarding instructions sent to the school system with its report forms. Before mailing, remove the school system's file copy from each set of reports. If the school system is instructed to mail the report to HEW through its State education agency, mail the four HEW copies, and the State education agency copy to your State education agency. If the report is mailed directly to HEW, mail the State education agency copy to your State education agency and the four HEW copies to:

> Office for Civil Rights Department of Health, Education and Welfare Post Office Box 14195 Washington, D.C. 20044

Before mailing the report, check the completeness and accuracy of each item, particularly the totals. Errois of omissions may require a refiling of the form. Be sure there is an Individual School report for each school.



This report is required pursuant to the HE Regulation (45 CFR 80) issued to carry out the purposers of Title VI of the Civil Right Act of 1964. Section 80.6(b) of the Rejulation provides: Compliance Reports. Each recipient shakeep such records and submit to the responsible Department official of his designed timely, complete and accurate compliance	FAI	U.S. DEPARTMENT OF HEACTH, EDUCATION AND WELFARE Office for Civil Rights Washington, D.C. SCHOOL SYSTEM REPORT FALL 1968 ELEMENTARY AND SECONDARY SCHOOL SURVEY Required Under Title VI of the Civil Rights Act of 1964 'Due October 15, 1968				
reports at such times, and in such form an containing such information as the responsible Department official or his designee ma determine to be necessary to enable him t ascertain whether the recipient has compile or is complying with this Regulation	d ·	,		•	,	Daie: 6/30/69
If you have any questions write: Office for Civil Rights Department of Health, Education & We Box 14195 Washington, D.C. 20044 er telephone 202-338-7866	Ifare	,	· · · · · · · · · · · · · · · · · · ·		·	· · · · · · · · · · · · · · · · · · ·
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INSTRUCTIONS FOR FORM OS/CR 102

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Office for Civil Rights Washington, D.C.

FALL 1968 ELEMENTARY AND SECONDARY SCHOOL SURYEY Due October 15, 1968

GENERAL INSTRUCTIONS. Nonnally, complete one individual School Reported orm OS/CR 102) for each whool, as the schools are organized by the local whool system. It however, a school has classroom buildings located on separate campuses (classroom buildings on campuses not configuous to each other), file a separate report Form OS/CR-102 for each campus.

Please-fise a typewriter to complete the report, if possible.

- ITEM I. Use the school system name your State uses in its published official listing of its school districts.
- ITEM II. The OCR school system number consists of the first 10 digits of the number at the bottom of the label affixed to Form OS/CR 101 sent to the school system superintendent. If this form is completed at individual schools, the superintendent should transmit the OCR school system number to each school.
- ITEM III. State the name of the school (or separate campus) covered by this report.
- ITEM IV. Give the street address of the school (or separate campus) covered by this report.
- ITEM V. Complete the address. Do not forget to give the zip code.
- ITEM VI-A. If a school has more than one campus, each campus should file an Individual School Report
- ITEM VI-B. Mark all the boxes that apply to your school, (or separate campus)
- ITEM VII. Report the number of persons in each@category. Do not use percentages. If there are no persons in a category, enter "0" for the category
 - Column 1: School Total Include both minority and non-minority groups.
 - Column 2 American Indian. Persons considered in school or community to be of American Indian origin.
 - Column 3 Negro Bersons considered in school, or community to be of African or Negroid origin.
 - Column 4. Oriental Persons considered in school or community to be of Chinese, Japanese, or other Quental ongin.
 - Kolumn 5. Spanish Surnamed Angerican Persons considered in school or community to be of Mexican, Central American. Cuban.
 Puerto Rican. Latin-American or other Spanish speaking origin.
 - NOTE. For the purposes of this report, minority groups are considered to be mutually evelusive, place an individual in one minority group only
 - Line A haralled Students. I near the number of regular day school students on the current rolls as of the date of the report
 - Line B(1) through B(4) 1 uil-time Professional Instructional Staff. Enter in the category which represents their major assignment the num

 ber of professional instructional staff members assigned to this school on a full-time basis. These are professional instructional staff members whose current assignments require their services at this school for the whole of the regular school day
 - Line B(1). The Principal. The professional staff member who is the administrative head of the school.
 - Line B(2). Assistant Principals. The professional staff members, other than the principal, who direct and manage the operation of the school.
 - Line B(3). Classroom Teachers. The professional staff members who instruct students in courses in classroom situations.
 - Line B(4). Other Instructional Staff. The professional staff members who are supervisors of instruction, curriculum consultants, school librarians, non-classroom teachers (homebound, etc.), audiovisual staff, guidance counselors and school psychologists assigned to this school on a full time basis

Do not include, staff members who work at this school on a part-time basis, para-professional staff members, such as teacher's aides and student teachers, or non-instructional staff members, such as attendance, business, financial, health, transportation, elerical, custodial and food service personnel.

- · Line C: 'Give the date as of which I tem VII is answered. ' F
- ITEM VIII. Give the year when the school enrolled its first students.
- ITEM IX. Instructions are contained in the item.
- SUBMISSION OF REPORT. It is the responsibility of each school system to submit this report by October 15, 1968. If the report is completed at the individual schools, it should be returned to the superintendent's office for forwarding to HLW. Before submitting the report, check the accuracy and completeness of each item, particularly the totals. Errors or omissions may require a refilling of the form

REPORTING REQUIREMENT:	U.C. DEVARTUEN	IT OP HEALTH, EDUCAT		
This report is required pursuant to the HEW Regu- lation (45 CFR 80) issued to carry out the purposes	U.S. DEFARTMEN	Office for Civil Rights		FORM OS/CR-102
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80.6(b) of the Regulation provides:	IN IN	DIVIDUAL SCHOOL REP	ORT	(3/27)
Compliance Reports.— Each recipient shall keep such records and submit to the responsible De-	1	NTARY AND SECONDAR		Budget Bureen
partment official or his designee timely, complete and accurate compliance reports at such times, and	Required Use	er Title VI of the Civil Rig	Fits Act of 1964	No: 51-R0662
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And the second s				
VI. A. Number of Campuses at this School-	NOTE:	File a separate report form	(OS/CR 102) for each c	empu
; · · · · · · · · · · · · · · · · · · ·	.(•,	, (The said of the
8. Grades offered (Put an "x" in the approp	wisterbox for each grade offe	red at-this school)	<i>:</i> ·	'
Pre-K K 1 2	3 4 5	6 .7 . \$		
			10	11 A 12 Ungraded
VII. Students and Professional Staff				· · · · · · · · · · · · · · · · · · ·
~ (Column 1 MINORI'	TY GROUP MEMBERSHIP, scluded in <u>Column 1 .who</u> a	OF STUDENTS AND PR	OFESSIONAL STAFF
Report number of persons in 14 sech category. Do not use per	School Column	. J T		olumn 5 Glumn 3
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(4) Other Instructional Staff	······································			-
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(5) Total of (1),(2),(3),(4),above for a figure (1),(2),(3),(4),above			,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
The same of the sa		 		
C Date for Item VII furnished as of (Date)				
VIII In what school year (a.g., 1956-67) did this sch	ool first enrolf students?	•		' - -
. IX. State the school year in which additions to	this school, if any, were ope			
additions opened before 1954 1965 school your as mobile classrooms, or (8) structures which				
library. (If no additions, write "NONE.")	- "		• • •	***************************************
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To assure the submission of correct Title VI complis	ence clate, please check the co			DOLOUMENDE I
To assure the submission of correct Title VI complia may require a refuling of this Form.	ance clate, please check the co		*	or orrassors
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To assure the submission of correct Title VI compliance require a refuling of this Form. Certification I certify that the information given a punishable by Yaw. U.S. Code Title 18, Secti	Bove is true and correct to ti	14 g	*	ŕ
may require a refilling of this Form. Certification I certify that the information given in	Bove is true and correct to ti	14 g	*	ŕ

INSTRUCTIONS

for

FORM OS/CR-102-1

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Office for Civil Rights Washington, D.C.

INDIVIDUAL SCHOOL REPORT FALL 1968 ELEMENTARY AND SECONDARY SCHOOL SURVEY

Due October 15, 1968

GENERAL INSTRUCTIONS. Normally, complete one Individual School Report (Form OS/CR-102 1) for each school, as the schools are organized by the local school system. If, however, a school has classroom buildings located on separate campuses (classroom buildings on campuses not contiguous to each other), file a separate report (Form OS/CR-102-1) for each campus.

Please use a typewriter to complete the report, if possible.

- Use the school system same your State uses in its published official listing of its school districts.
- ITEM II. The OCR school system number consists of the first 10 digits of the number at the bottom of the label affixed to Form OS/CR-101 sent the school system superintendent. If this form is completed at individual schools, the superintendent should transmit the OCR school system number to each school.
- ITEM III. State the name of the school (or separate campus) covered by this report.
- Give the atreet address of the school (or separate campus) covered by this report.
- Complete the address. Do not forget to give the zip code.
- ITEM VI-A. If a school has more than one campus, each campus should file an Individual School Report.
- / ITEM VI-B. Mark all the boxes that apply to your school, (or separate campus).
 - ITEM VIL. Report the number of persons in each category. Do not use percentation of there are no persons in a category, enter "0" for the category.
 - Column 1:
 - Column 2: Column 3:
 - School Total. Include both minority and non-minority groups.

 American Indian. Persons considered in school or community to be of American Indian origin.

 Negro. Persons considered in school or community to be of African or Negroid origin.
 - Column 4: Oriental. Persons considered in school or community to be of Chinese, Japanese, or other Oriental ongo, Spanish Surnamed American Persons considered in school or community to be of Mexican, Central American, Cuban.
 - Column 5. Puerto Rican. Latin-American or other Spanish speaking origin.
 - NOTE. For the purpose of this report, minority groups are considered to be mutually exclusive, place an individual in one minority
 - *Enrolled Students | Enter at the appropriate grade level the number of regular day, school students on the current roll as of his report. Item A.
 - Line B(1) through B(4) Full-time Professional Instructional Staff Enter in the category which represents their major assignment the num ber of professional instructional staff members assigned to this school on a full-time basis. These are professional instructional staff members whose current assignments require their services at titls school for the whole of the regular school day
 - Line B(1) The Principal. The professional staff member who is the administrative head of the school.
 - Assistant Principals. The professional staff members, other than the principal, who direct and manage the operation of the Line B(2)
 - Classroom Teachers- The professional staff members who instruct students in courses in classroom situations. Enter each Item B(3) classroom 'teacher at the grade level which represents his major assignment. If Grades 7 and 8 are considered secondary grades at this school, report the 7th and 8th Grade teachers as Secondary Classroom Teachers.
 - Other instructional Staff. The professional staff members who are supermisors of instruction, curriculum consultants, school/brarians, non-classroom leachers (humebound, etc.), audiovisual staff, guidance counselors and school psychologists Line B(4) -assigned to this school on a full-time basis.
 - Do not include. staff members who work at this school on a part-time basis; para-professional staff members, such as teacher's sides and student teachers, or non-instructional staff members, such as attendance, business, financial, health, transportation, cierical, custodial and food service personnel.
 - Enter in the appropriate categories the number of vacancies filled at this school since October 1, 1967 by full-time Line C(1) professional instructional staff members new to this school system.
 - Enter in the appropriate categories the number of vacancies filled in the full-time professional instructional staff of this school since October 1, 1967 by transfers from other schools of this system. Line C(2)
 - Line D Enter the number of unfilled full-time professional instructional staff positions at this school as of the date on Line E.
 - Line E Give the date as of which Item VII is answered.
- ITEM VIII. Give the year when the school enrolled its first students.
- ITEM IX. Instructions are contained in the Item.
- SUBMISSION OF REPORT. It is the responsibility of each school system to submit this report by October 15, 1968. If the respons is completed at the individual schools it should be returned to the superintendent's office for forwarding to HEW. Before submitting the report, check the accuracy and completeness of each item, particularly the totals. Errors or omissions may require a refling of the form

REPORTING REQUIRI. MENTS This report is required pursuant to the HECLR 80) issued to carry out the purposes of Rights Act of 1948. Section 80 60 by of the R. Compliance Reports. Fach recipent shall ke aubmit to the responsible Department officially complete and accurate sumpliance readd in such form containing such information. Department official or his designer may determ to enable him to acceptain whether the recipies is complying with this Regulation.	ip sucl- records and ial or his designer ports at such times, n as the responsible	FALL 1968 EU	Office for C Washingt INDIVIDUAL SC BY GR EMENTARY: AND	on,D.C., 'HOOL REPORT' ADES: SECONDARY SCHOO he Civil Rights Act of ir 15,1968	OL SURVEY	FORM OS/CR102-11 (5/68) Budget Bufteau No 51 ROS51 Expiration Date: 6/30/69
Name of School System	and the same	~	magner at the second state of		-	
II. OC'R School System Number		^,				
III Name of School		•				
V City, County, State, Zip Code						
VI A Number of Campuses at this School B. Grades offered (Put an "x" in the a				m (OS/CR 102-1) for	esch campus.	
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VII Students and professional Staff		MINO	RITY GROUP WEN	BERSHIP OF STUDE	NTS AND PRO	PESSIONAL STAFF
Report number of persons in each category. Do not use percentages.	Column I School Total	(Perso	as included in Colu	ma I who are member	s of the minorit	y groups inted below)
b	(BOTH	Column 2	Column 3	Column 4	Column 5 Spanish	Column 6 Total Minority
	minority and non	American	Negro	Oriental	Surnamed American	Group (Sum of Col. 2,3,4,4, 5)
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(1) The Principal	<u> </u>	<u>-</u> -	ļ		J	
(2) Assistant Principals	<u></u>	<u> </u>	ļ			
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(b) Secondary Classroom Teachers (as a group)	1.	1				. 4
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(d) Other Ungraded		1		I		
TOTAL Classroom Trachers	•	<u> </u>		Ţ ———	*	
(4) Other Instructional Staff	1		T	Ti		
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(1) Newly hired staff members	1					
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(2) Transfers (staff members transferred from another	•	1		ļ	l <u>.</u>	
school of this system)	1		 	 	<u> </u>	
(3) TOTAL of (1) and (2)	l	L	1	<u> </u>		
p. Number of Current Vaccation in East	Ilme nen fassinmes :	metrupthical as afe	_ '			. =
D. Number of Current Vacancies in Full E. Data for Item VII fornished as of (Di		matrice synat at all				
VIII in what school year (e.g. 1966 67) did th	uls sefisiot first enco	Il students?				
IX State-the school year in which addition opened before 1954 1955 school year or (B) attractures which do not increase	to this school, if	any, were opened	Include only the	two most recent addition (A)temperature	ions Do not in	ctude additions
or (B) structules which do vot increase	the student capaci	ity of the school,	welt as a afeteria.	Skwussinú or school	library (If no i	déitions, write
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To agure the submission of correct Title, VI c require a celling of this form	ompliance data, pi	ease check the cus	apteteness and accu	racy of each item rep	orted. Errors or	omissions may
certification I certify that the information give	en abuve is true an	d coerect to the be		and belief (A willful	ly false statemer	nt is pu nishable
by law U.S. Cirde Title 18, Section 100	•.,		,	•		•
Signature and Title of Person Furnishing Infor	mation -		Telephone h	lumbet	Date Sign	neé
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APPENDIX 2

ALTERNATE USE OF Swb

APPENDIX 2

ALTERNATE USE OF Sub

We will consider here the possible use, as a independent variable in studying white loss, the change in proportion black in the average white child's classroom, Δs_{wb} , using the notation of equation (1) in the text. This was not done in the analyses carried out, because Δs_{wb} is not only affected by desegregation actions which rearrange pupils among schools, but also by any loss of whites that takes place. However, the following approach is suggested for future work.

We assume that the proportion of whites lost to the system (p_w) is a function of various factors including change in the proportion of blacks in the average white child's classroom due to desegregation. That change we will call $\Delta_1 s$.

$$p_{w} = f(\Delta_{1}s, x_{1}, x_{2}, ..., x_{n}).$$
 (A1)

But the observed change in proportion of blacks in the average white child's school, Δs , includes both this change, $\Delta_1 s$, and a change due to a change in numbers of whites and blacks in the system, which we will call $\Delta_2 s$:

$$\Delta s = \Delta_1 s + \Delta_2 s \qquad (A2)$$

Now if the proportion of whites lost to the system between year t-1 and year t is p_w , then the proportion remaining is $c_w = 1 - p_w$. Similarly, the number of blacks in the system in year t as a proportion of those present in year t-1 is c_b . And the number of others (neither blacks nor whites) as a proportion of the number in the preceding year is c_o . If s_{wb} , s_{ww} , and s_{wo} are the proportion of blacks, whites and others in the average white child's school in year t-1, then by definition, $s_{wb} = s_{wb} / (s_{wb} + s_{ww} + s_{wo} + s_{wo} + s_{wo} + s_{wb} + s_{wo} + s_{wb} + s_{wo} + s_{wb} + s_{wo} + s_{wo} + s_{wb} + s_{w$

and in year t, the value of s which would occur if there were general changes in each population group would be:

$$s_{wbt}^{*} = (c_b s_{wb}^{*}) / (c_b s_{wb}^{*}) + c_w s_{wb}^{*} + c_o s_{wo}^{*})$$
 (A3)

And the change in s due merely to general changes in the proportion in each population group (dropping the subscripts on s_{wbt}^*) is : $\Delta_2 s = s_t^* - s_{t-1}$. Now, from equation (A2), $\Delta_1 s = \Delta s - \Delta_2 s$ or:

$$\Delta_1 s = s_t - s_{t-1} - (s_t^* - s_{t-1}) = s_t - s_t^*$$

Now for use in a regression equation, s_t is calculated as usual, and s_t^* is calculated according to equation (A3). This will allow use of a variable, $\Delta_1 s$, which is independent of the general changes in population composition, and dependent only on the differential changes in different schools, i.e., changes in the degree of segregation. This variable is:

$$^{\Delta_{1}}s_{wb} = s_{wbt} - (c_{b}s_{wb}) / (c_{b}s_{wb} + c_{w}s_{ww} + c_{o}s_{wo} + c_{o}s_{wo})$$
(A4)

The regression of p_w on $\Delta_1 s_{ub}$ will be independent of general changes in numbers of whites, blacks and others in the system, and thus p_w and $\Delta_1 s_{ub}$ be used for the same pair of years in the equation.

APPENDIX 3

Basic Data for 70

Largest Central City

School Districts

(ranked by 1972 enrollment)

ALL SCHOOLS

*					• • .			
	School District	Metro.	٠.,	Number		` ,	Prop. ,	Number
Year	Number	Status	SHSA	Whites	S _{wb}	Rwb	Black	Students
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4	5909600		, 1		122	•	84265		.07218	0.75730	0.29741	127810 123224
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, 6 ,	59,09600		. 1		122		10020	•		· · · · ·	, ,	4:
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59096	đQλ	6.	•	,					•	***		
	lvaukee			•		•						
Fil	T WALLE	•		•				, •	1, 1		•	
. 1	1434320		. 1		176		98079	Ò	.04010	0.65557	0.11641	់ 12881 🤊 😲
• •	1434320		- 1. ₹ ×	•	176		97886		.04642	0.62111	0.12250	129401
ž 3	1434320				176	٠.	97078		.05171	0.58397	0.12430	128783
			1			. ~						
4	1434320		1	,	176		96105	C	.05483	0.57206	0.12812	128 075
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` 5	1434320				176	•	91657	'n	.05938	0.55169	013246	124 391
-			1						.06410	0.53197		
, 6	1434320		1		176		89961	• •		0.5017/	0.13696	123466
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14343	7 0	6`									•	
Sat	n Diego											
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٠.	School District	Van	·		112h a.m		•	n-4-	N
Year	Number	. Met Sta		- SMSA	Number Whites	e .	p -	Prop. Black	Number Students
	nomber	314	,	onon	*******	S ^{Mp →} ,	Rwb	3	Scadenica
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	•			-				<i>-7</i>	•
1	4504380	•	. '		· `			· · ·	
2	4504380		1.	45	81655	0.10381	0.59999	0.25952	110699
3	4504380		1	45	80171	0.10249	0.61168	0.26393	109411
4	450 4:38 A		ŧ	45		~ 07.10748	0.59880	0.26790	109548
· 5	4504380		1	45 ` 45	78921 ⁻	0.11743	0.58382	0.28216	110598
6	450 4380		· ·	45	74852 70747	0.12335	0.58012	0.29377	106588
	- •	•	•	75	/0/4/	0, 13266	0.56489	0.30489	102336
450438	- ,	-6 ,		_		,	•	* .	
Colu	ımbus			•	~	,			
	•		•		. *		•	, *•	
1	1900870		1	198	7,4629	0104174	0.70077	4 400-7	
2	1900870	•	ī	198	76332	0:04174 0:05547	Ր.78677 Ծ.71019	0.19037	100985
• 3	1900870	•	ī	198	77794	0.06883	0.64486	0.19141	103795
4	1900870		1	. 198	75394	0.19013	0.02576	0.19361 0.19516	101298
5	1900870	_	1 .	198	80136		- 0.02536	0.18939	107540
•6	1900870	•	1	198	84781	0.18029	C.03907	0.18762	113842
•					_		*******	40.00	210045
190587		6 •				,	•		
Tam	pa						* _	4	
				44				•	
1	3529280	•	1	.170	41810	0.11578	€.81768 ·	0.63505	115557
1 2	3529280		ī ·	170	39861	0.12622	0.80431	0.64498	115557 113355
3	3529280	,	ā	170	37877	0.12558	£.80855	0.65592	111218
4	35 29 280		4	170	34383	0.11530	0.82993	0.6779.6	107975
5	3529280	•	ī	170	32630	0.10688	0.84456	0.68761	105592
6 (3529280		1 *	170	29798	0.10750	0.84515	0.69422	98850
		•	•					4. 4	
352928	, ,	6	•	•	_			The second of the second	
St.	Louis				_	**	٠.	•	1
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•	*						• ,		. 1
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1	2801170		1 .	134-	4 34673	0.19014	C.71679	0.67138	1107¤3
2.		•	1	134	33459	0.20725	0.69525	0.68607	11,0664
3	2801170		1	· 134 ·	31406	0.23046	2.66856	0.69535	109856
4	2801170		1	.134	28323	0.26595	0.62820	. 0.7153C	107433 *
5	2801170		1	134	24535	0.28948	C.61215	0.74639	103639
6.	2801170		1	134	20879.	0.33556	0,56528	0.77189.	98828
	• •	6′			_	`	•		. ,
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yer	Orleans				ė.	,		•	_
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2.	2404770 2404770		1	86	72010	0710991	0,67372	0.33685	108587
ξ.	2404770	. •	1	86	70204	0.11792	0.66131	0.34805	108192
4	2404770		1	- 66 - 86	67772	0.13029	0,63615	0.35810	106239
	2404770		1	86	63334	0.15455	0.58968	0.37.665	.102326
_			•	00	59079	0.16753	0.57348	0.39278	98976
		. ,		•		•			
	•	٠	. , .	-			• • • • • • • • • • • • • • • • • • • •	, t	
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4.	,		S 70	W.			•	• .	,
6 -	~ 2404770		1 `	86 `	53289	0.25166	P.39203	0.41393	91714
03047		,			•			1	
240477		6 .					·		
Ind	lianapolis .						•		
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1	31,02790			_ =	•			•	
	3102790		1	27	64500	0.10817	\$\$\$00.0	0.27059	94174
2.	3102790		1	27	62657	0.10651	0.62949	0.28746	94887
4	3102790	•	1	27	62014	0.10737	0,63977	0.2980.7-	96696
5	3102790	•	1	.27	59390	0.10905	0.65663	0.31758	96610
6	·3102790		r r	27 27	57405 57607	0.12024	0.63529	0.32968	. 96239
	-		•	۷,	53593 +	0.12483	0.63426	0.34131	93647
310279	0	6		•			<i>.</i>		•
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ERIC Full Text Provided by ERIC

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Year	School District Number	Hetro: Status	SMSA	Number Whites	s _{wb}	R _{wb}	Prop. Black ·	Number Students
	.`		•		•	,	•	
1 2 3 4 .5	2000120 2000120 2000120 2000120 2000120	J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 13 13 13 13 13	42506 39318 32605 27698 21683 15997	0.09254 0.11775 0.20284 0.23456 0.28374 0.42029	0.85009 0.81630 0.70588 0.67511 0.63181 0.48405	0.72197 0.77063	111227 109664 105141 100172 96006 88125
200012 · At-l		6				•		,
	1503360 1503360 1503360 1503360 1503360 1503360	1 1 1 1 1	51 51 51 51 51 51	63398 61912 60454 57177 53420 49892	0.04361 0.07658 0.08958 0.10167 0.11574 0.12257	0.69120 0.46883 0.39225 0.35289 0.32588 0.31086	0.14122 0.14417 0.14739 0.15712 0.17166 0.17786	96577 96634 97928 94840 91616 87620
150336 Den	-	6				•	•	• `
	4100060	1 4	, 5 5	47677 48066	0.Ú1355 0.01506	1.43089 6.42443	0.02380 -0.02617	79615 82086
		• •						•
3 4' 5 4 6 3	4100060 4100060 4100060 4100060	1 1 1 1	5 5 5 5 5	48845 49357 49764 48225	0.01631 0.01639 0.01564 0.01878	0.33260 0.34962 0.27269 0.25349	0.02444 0.02520 0.02563 0.02516	83781 85446 86658 85497
4100060 Albū	querque	6 -			•	, ,	•	. '
1 2 3 4 5	1434410; 1434410; 1434410; 1434410; 1434410; 1434410;	1 1 1 1 1	. 177 177 177 177 177 177	38671 34250 33601 28343 26067 23089	0.17085 0.16998 0.18285 0.27306 0.28119 0.28368	0.38019 0.38992 0.35866 0.10174 0.08007 0.06982	0.27565 0.27867 0.28511 0.30398 0.30566	93941 92795 91150 83584 81970 78010
[43441]	0 Francisco	6	.	¥.			Sept.	**
1 - 2 3 4 5	4302970 4302970 4302970 4302970 4302970 4302976	1 1 1 1 1	37 37 37 37 37	58623 59530 56819 54926 53629 51928	0.19054 0.12081 0.28963 0.30834 0.31273 0.32344	0.65531 -0.586444 0.05936 0.03130 0.03336 0.03167	0,29167 0,29167 0,39813 0,31830 0,31830 0,32352	83111 -84518 82507 -81042 -79813 -78599
4 3029 70	,`)	6) *	, , <u>,</u> ,	**	1		``.	,
Char	lotte-Meckl		, E,	<u> </u>	10 mg	· · ·		74. · ·
1 2 3 4 5 6	4011340 4011340 4011340 4011340 4011340 4011340	1 1 1 1 1 1	136 136 136 136 136 136	13716 11755 11198 9820 9639 8626	0.27139 0.27413 0.26402 0.27186 0.24531 0.24772	0.62557 0.62175 C.63325 C.62240 0.66044 C.65753	0.72462 0.72475 0.72267 0.72203 0.72244 0.72332	75960 77137 78456 79661 78379 76674
4011340) *	6		:		a		75

Newark

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•	School				•				1
•	District		Metro.	-	Mumber		,	Prop.	Number
Year	Number		Status	SMSA	Whites	Swb	Rwb	Black	Students
•			•	. ,		- wb	- WP		010101125
	,			• •	. ,				
, 1	4504375		1	40 .	400			x	
2	4504375			40	49231	0.19304	0.55045	0.42940	86807
3	4504375		1 .	' 4Q	47648	0.19837	0.54833	0.43918	
4			1	40	46064	0.19909	0.55714	0 44057	85286
5	4504375		1	40	43837	0.19772		0.44957	84199
	4584375	/	1	40	40763		0.56917	0.45893	81680
. 6	4504375		1	40		0.19864	0.57972	0.47264	77878
*			-	٠, ۳۰	37039	0.20015	0.59138	0.48983	73373
450437	5	6		•	4	1.00	•		. 0070
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Cin	cinnati						•	•	
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									04000
1 2	5707710		· 1	, 182	77291	0.06418	0.41733	0.11016	94002
	5 ₇ 0 ₇ 710		· 1	182	72535	0,06773	0.41603	0.11597	89 <u>1</u> 88
3	5707710		1	182	66417	0.07471	0.41145	0.12694	83243
4	5707710.		Ĭ	182	60072	0.08473	0.37587	0.13576	76844
. 5	5707710		ī	182	58024	0.09166	0.36365	0.14403	75239
								0.15171	
. 6	5707710		1	182	53087	0.09337	0.38455	0.151/1	70273
			, `			•	,		
570771	A)	6		*				*	
	1 .			٠,			*		•
Sea	ttle		•				. •	۵	
			•		,-				
1	5338730		` 1	174	21310	0.05002	0.65892	0.14665	70767
. 2	5338730	•							79353
3		~	_	• • •	18829	0.08925	0.39393	0.14726	78289
	5338730		1	174		70.10893	0.29003	0.15343	77253
4	5338730		1	174	16014	0.11531	0.25489.	0.15476	74955
5	5338730		1	174	14173	0.12343	0.22006	.0.15826	`723C5
6 '	5338730		· 1	174	12837	0.13227	0.18323	0.16195.	70530
			_				, , _ 0 - 2 -	,01202721	,0500
53 38 73	n ·	6		•		•	•		•
200070	٠.	U	•		•	•			
⁴ San	Antonio							- /-	
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	*		`.				*	· · · · · · · · · · · · · · · · · · ·	
1	4630240		1	205	66413	0.02371	0,80500	0.12162	79990
, 3	463024p		` 1	205 :	65943	0.03228	0.75139	9.12985	79566
, 3	4630240		1	205	640 <i>1</i> 7	0.03732	0.72783	0.13713	77822 1
4	4630240		1	205	61390	0.06214	*0.56054	0.14140	75080
5	4630240		ī	205	56859	0.07713	0.49857	0,15381	71190
6 .	4630240		ī	205					
U	7030270		1	245	53312	0.08593	0,46843	0.16166	67802
	_		•	•					
463024	0 .	6							
101	4.8	•	¥*			, .	• • •	•	
	J 4		•	•		÷		` `	
		•	•			, . , λ			
1	4819170	•	. 1	152	46005	0.16110	0.58904	0.39201	76268
-2	4819170		1 .	` 152	43962	0.16273	0,59238	0.39921	73500
′. 3	4819170		- 1	152	43.679	0.16451	0.59154		73461
• • .			*					0.40276	
4	4819170		- 1	152	41876	0.17400	0.57620	0.41058	71502
5	4819170		1	`, 152	40484	0.19108	0.54257	0.41772	70080
6	4819170		1	152	39146	0.19898	0.53026	0.42358	68414
•									`
481917	n	6		•				•	,
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Pit	tsburgh		• .		•			•	
وسنته	-		•				•	¥	,
$\tilde{\mathbf{i}}$	474.005.0						******		
	4710050		ſ	155	70156	0.04990	0.38747	0.08147	78413
2	4710050	•	1	155	£ 68583	-0.05243	0.39139		
3	4710050		1	155	66757	0.05883		0.08614	77398
4	4710050		ī	155			0.36143	0.09212	75857
5	4710050		i		63233	0.06107	0.37546	0.09778	72593
6	4710050			155	58854	0.07642	0,28425	0.10677	68437
•			~ 1	155	56394	0.08405	0.26341	0.11410	66325
471005	•	,			•		_	- · · ·	
7/1005	U	6		4		•		•	

Portland

-	School		•			· -				_
•	District		Metro.	٠ .		Number		,	Prop.	Number
_ Year	Number		Status	SMS	ĭ" ·	Whites	S _{wb} .	Rwb	Black	Students
•		` . ·					WD	WD		`••
•	1.			•			•			-
_1	2800540		1	19		39772	0.03357	0.90994	0.37271	·· 63725
~ 2	2800540		ī	19		40939	0.04178	0.88783		
รั	280 0540		į	19		39188			0.37242	65566
Ă	2800540	• ′	i	. 19		39866	0.12378	0.67939	0.38607	64198
5,	280 0 540		i				0.12399	0.68232	0.39030	65906
6·				. 19		40751	0.12847	10.66959	0.38882	67342
	2800540		1	19		40527	0.12996	0.66380	0.38656	- 67011°
	•				,		•	•	•	
2809540	* . ,	6	-							
E. 1	Baton Rouge			•		•				
	orion wage		,		•					
1	•							~		¥
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. 2	1002370	•	1.	124		44023	0.06542	0.84298	0.41664	75464
	1002370		. 1	124		42620	0.13907	0.66902	0.42017	73504
3	1002370		1	- 124		38677	0.19475	0.56203	0.44467	69791 .
4	1002370		1	124		35548	0.28963	-0.37698	0.46488	6659.3
5	1002370		1 .	124	^ .	35 9 4 3	"O. 27736	0.39253	0.45659	66263
6	1002370		1	124		35222	0.27823	0.39318	0.45850	65184
-1002370	0 '''	6	•		_		-			
Mobi	_						••			•
			•			•				
· 1	1428050			4.55				, •		•
2			1	177		19835	0.24193	0.56174	0.55203 •	64102
	1428050		•1•	177			0.26441	0.53732 -	0.57147	61679
3	1428050		1	177		19098	0.27910	0.50751	0.56670	67067
2	1428 050		, 1	177		15617	0.30542	0.49536	0.60523	61988
5	1428 050		1 .	177		13981	.0.31682	0.49094	0.62236	60651
6	1428050		1	177		14409	0.32241	0.48250	0.62302	60703
								,	41.02.00	00,00
1428050)	6							*	•
Oskla	and .					*	•	•	v.	
•										•
1	75		• •		:	•			*	
. 1,	3516400		1	93	,	39510	0.13005	0.72184	Q.46753	74202
2	3516400		1	. 93		37312	0.11504	0.76345	0.48633	72638
3	3516400		• 1	93		35128	0.11032	0.78033	0.50175	70503
. 1	3516400		1	93		32838	0.10607	0.79624	0.52058	68495
5.	3516400	•	1	93		29836	0.11171	0.79461	0.54389	
6 4	3516400		1 1	. 93		25155	0:11932	0.78634	0.55844	65414
		, ,		% . '				0.70004	0.22077	62096
3516400	מ	6 "	3	w, 🗢			•	*	•	
Yene	as City, Mo	, ,						į.	•	•
, Kens	as orey, me	'' [. •		,	* 3,	•		*
		•	•	•		•	•			
1	4205850		. c. 1	31-		43942	0.14329	0.60829	0.36582	72115/
2	4205850		1	31		42546	0.15740	0.58261	0.37709	71441~
. 3	4205850		1			41021	0.16582	0.56932	0.38502	70305
* .4	4205850		1	. 31 31		38939	0.17894	0.55009	0.39773	68217
5 _.	4205850	-	ī	31		35275	0.18544	0.55090	0.41290	64296
			َ ئَ أَ	. 31		32527	0.18468	0.56533	0.42487	
6						46767	0.10400	0.20200	0.72707	60752
	4205850		- 3							
	4205850	6	-3	•		,		•		
. 42 n ร _{ู้} 85 (4205850 0	6 .		•		,		•		
. 42 n ร _{ู้} 85 (4205850 0	6.	٠.	•		•	>			
	4205850 0	6	· · ·	,		,	· · ·			g I in
. 42 n ร _{ู้} 85 (4205850 0	6	• • • • • • • • • • • • • • • • • • •	•		,	• . •			i i e
. 42 n ร _{ู้} 85 (4205850 0 alo	6.		- 110		, , ,	n`n704e	0.47504	, , ,	i e
. 42 05 85 (Buff.	4205850 0 alo 1422500	6	i.	110		61218	0.03988	0.47596	. 0.07610	71777
4205,85(Buff. 1 2	4205850 0 alo	6	1, 1	110		59422/	0.04522	0.45178	0,08249	70472
. 42 05 85 (Buff.	4205850 0 alo	6	1, 1,	110 110	×	59422 57676	0.04522 0.05090	0.45178 0.43887 .	0,08249 0.09071	7 0472 69250
. 42 05 85 (Buff. 1 2 3	4205850 0 alo	6	1, 1, 1, 1	110 110 110	ř	59422 57676 54760	0.04522 0.05090 0.05882	0.45178 0.43887 0.41521	0.08249 0.09071 0.10059	70472 69250 67254
4205,85(Buff. 1 2 3	1422500 1422500 1422500 1422500 1422500 1422500	6	1 1 1 1	110 110 110 110	,	59422 57676 54760 50892	0.04522 0.05090 0.05882 0.06922	0.45178 0.43887 0.41521 0.37765	0,08249 0.09071 0.10059 0.11122	70472 69250 67254 63838
4205856 Buff. 1 2 3 4	4205850 0 alo	6	1, 1, 1, 1	110 110 110	,	59422 57676 54760	0.04522 0.05090 0.05882	0.45178 0.43887 0.41521	0.08249 0.09071 0.10059	70472 69250 67254
4205856 Buff. 1 2 3 4	1422500 1422500 1422500 1422500 1422500 1422500 1422500 1422500	6	1 1 1 1	110 110 110 110	,	59422 57676 54760 50892	0.04522 0.05090 0.05882 0.06922	0.45178 0.43887 0.41521 0.37765	0,08249 0.09071 0.10059 0.11122	70472 69250 67254 63838

	,			•		of the	
School District Year Number	Metro. Status	Shsa	Number Whites	S _{wb}	R _{vb}	Prop. Black	Number Students
1 3774820 2 3774820 3 3774820 4 3774820	1 1 1	=143 143 143	49956 49582 50381	0.06008 0.06358 0.06402	0.66759 0.65598 0.65500	0.18074 0.18481 0.18556	62431 62481 63516
3774820 3774820	1 1	143 143 143	50352 49384 46923	0.07177 0.08127 0.08593	0.61989 0.58019 0.56540	0.18881 0.19358 0.19771	63931 63125 60502
3774820 - 6 Omaha (*)			· , »	, (**	,	· .	, , ,
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2	2800300		i	183	31989	0.01770 ¹ 0.07595	0,495948 0.83186	0.4369 <i>7.</i> 0.45170	60483 58782
3	2800300		1	1,83 \	27.298	0,20813	0,57536	0.49012	7 53866
, 4 5	2800300		1	- 183 >	26677	0.21949	0.55713	0.49561	53330
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1 14345	o n	1	178	24041	0,00951	°0.36927	0.01508	35447
2 -14345		. 1	178	24780	0.00931	C. 40063	0.01629	3541 <i>7</i> 36041
3 14345		, i	178	25730	0.00987	0,37623	0.01582	37176
4 14345		ĺ	178	26034	0.01059	0.31554	0.01517	36906
5 - 14345	-	1	178	26288	0.01005	0.27209	0.01381	37146
6 14345	90	,1	178	26201	0.01051	Ø- 25278	0.01406	36697
4-4		*						
1434590	6	Α		J	•	,	* ` ` `	•

. •	School	•	•			٠,	•	. •
	District	Metro.	2	Number	,		·Prop.	Number
'Year	Number.	Status	SMSA	Whites	Swb	Rwb	Black	Students
			•					•
1	1002430 **	1	126	22402	0.03816	0.91062	0.42696	39093
51	1002430	1	· 126	22207	0.12513	0.70920	0.43028	38979
3	1002430	_ 1	126	2053 0	0.24742	0.45583	0.45468	37651
4	1002430	1	126	20318	0.25247	0,45078	0.45969	37604
5	1002430	1	126	19823	0.25895	0.44131.	0.46350	36949
6	1002430	1	126		0.26099	0.44381	0,46924	36293
100243	30 6	•	, _		•		~·	•
Но	ntgomery, Ala.	· '-	•	•	1	<i>F</i> **	• •	•,
	_			,			•	
• 1	5346680	~1 -	57 °	11755	0.01738		. • ~	•
· 2	5346680	ĭ	57	11772		.0.40052	0.02900.	··· 30208
3	5346680	ī	57	11887-	0.02136	0.22225	0,02746	31430
4	5346680 4	ī	57		0.02244	0.17445	Q.02718	4 33262
, 5	5346680	7	57	12097	0.02785	0,00664	û.02803	35352
` 6	5346680	i	- 57	12140	0.03060	-0.00249	0.02817	36736
		• ,	. 9/	12213	0.03088	-0.00472	0.02629	39179
534668	6,							,*
Ysl	eta (El Paso)							• ,
•		,	*		•			
1	1503060	1	42	1 25340	0.03495		•	Č
2 3	1503060	1 '	42	26658		0,44613	0,06309 1	30336
3	1503060	1	142	27596	0.03692	0.40957	0.06253	31779
4	1503060	î	42		0.03921	0.36802	0,06204	33025
5,-	1503060	1		28746	0.04314	0.29181	0.06091	34426
. 6	1503060		42	29853	0.04357	0.30049	0.06228	35853
		1	. 42	29.171	0.04362	0.28272	0.06081	34996
15030	60, 6			•				

Colorado Springs

APPENDIX 3

Basic Data for 70

Largest Central City

School Districts

(ranked by 1972 enrollment)

ELEMENTARY

•	Cobool	•		• '	:			9	
7 -	School District		Metro.	•	Number				\$ \$
Year	Number		Status	SMSA	Whites	c	10	Prop. Black	Number Students
1041	,	• 53	,	,	HILLECO	, Syb,	R _{wb}	DIECK	Students,
•				•		• -	_	,	
. 1	4220580		, 1	135	- 202859		, , , , , , , , , , , , , , , , , , , ,		
Ž	4220580		í	135	201202	0.14862 0.15891	0.53374	0.31874	502055
3	4220580	7	i	135		0.15919	0.52740	0.33624	537356
4	4220580		ī	.135	179723	0.16121	0.53081	0.33928	537420
5	4220580		- 1	135	170216	0.15641	0.53406	0.34600	518318
. 6	4220580	•	" i	135	155062	0.15725	0.55437	0.35100	-501634
			•,	. 200	122005	0,13/25	0.56440	0.36101	្នុ 483668
42205	80 . °	6						* * * * * * * * * * * * * * * * * * * *	1.
Nes	York City		1 1				,	*_	<i>`</i>
•,-			•		,	•	.,	• ,	*
	4 4000.0	•					,		
.1 2	1422710		1 • ,	110	188646	0.02677	0.89035	0.24414	373146
3	1422710		1 '	110	179883	0.02898	0.88347	0.24870	366399
4	1422710		1	110	147842	0.02997	0.8886.0	0.25529	356726
. 5	1422710 1422710		1	110	58152	0.03386	0.87021	0.26085 9	346770
` 6	1422710	•	1	110	7981	0.03,855	0.85068	0.25817	334738
• -	1422/10	¥	1	110	132322	0.03668	0.85759	0.25753	323999
142271	n	6	•		ė			شر د	`
		o			• '			, , <u>, , , , , , , , , , , , , , , , , </u>	•
LUS	Angeles					•			
•		•		•	,	, ,			
1	2309930		1	39	144791	0.04736	0.90903	0.52057	1 387540
2	2309930		Ĩ,	. (39	138561	0.04900	0.90728	0.52840	385729
3	2309930		1	1 39	133292	0.04933.		0.53792	388851
4	2309930		1.4	39	125651	0.04961	0.90869	0.54329	379792
. 5	2309930		· 1	39	114924	0.04817	0.91277	0.55227	365575
6	2309930		ĭ	39՝	104640	0.04777	0.91423	0.55696	350836
•					1				• • • • • • • • • • • • • • • • • • • •
230993		6		•	, -	•			
Chi	cago	٠.	•		•	•			
•	•		•	•	• • ,		1	•	7
•	4940000		4	440					
1	4818990		1	149	57017	0.19287	0.68730	0.61681	15845,3
· 2	481.8990			149	56427	0.18642		0.62076	161216
4	4818990		1	149	55255	0.16616	0.72939	0,61404	156421
5	4818990 4818990			149	52799	0.14940	0.75303	0.60493	147445
٠ 6	4818990		1	149 ~*149	54345	0.14684	0.75613	0.60214	148755
Ū	4010330		1,	~ 149	49128	0.13203	0.78031	η.60098 _,	139326
481099)n	6		_	*	• ,	,	•	
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rnı	ladelphia	•		•				1	•
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1	3212000	٠.	1	53 ´	69381	0.17931	0.69414	0.58624	174773.
	3212000		1 -	53	64028	0,19012	0.68821	0.60975	172472
3	3212000		1	53	57699	0.17662	0.71722	0.62460	161761
4	3212000		1	53	55232	0.18810 .	0.70359	0.63480 .	159744
5	3212000		1	93	50059	0.21751	0.67006	0.65924	156118
6`	3212000		1	53	42966	0.24353	0.64612	0.68819	147511
		;				ζ,		•	ŕ
321200		6			<u> </u>				, ,
	roit `						*		
4			•	•		,		•	-
1	5323640		· 1	83	`74920	0.03863	0.88959	0 78444	4 50074
2	5323640		i	83	68179	0.03003	0.88617	0.35166 0.34793	150031
. 3	5323640	*/	ī-	83	65716 •		g.83557.,	0.37159	137572 142556
4	5323640		ī	83	57177	0.06662	0.82201	0.37432	125411
5	5323640		Y	83	50120	. 0.07453	0.81203	0.39649	119471
.6	5323640	•	1	83	43851	0.08908	0.78434	.0.41307	114097
			•		• -		,		
532364		6	· •		- •	-	·		
A"· Hou	iston `			• .	•				
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		×		• "	-				
1	3000090		1	, 18	42182	0.13229	0.79624	0.64924	120258
2	3000090	~	1	18	41026		0.79712	0.64958	117078 :
3	3000090		1	18	31.715	0.11829	0.81666	0.64522	89393
'4	3000090		1	18.	28328	0.13262	0.80368	0.67553	87306
• 5 6	3000090		1	18	. 26126	0.14027	0.79488	0.68384	82635
, -	3616340		, 1	1,8	24672	0,13655	0.79689	0.67232	75604
30000'96) . timore	6			· • •	*	•		•
Dar	-IMOLE		٠,		112 .				

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_	School		•		•	,			•
•	District		Hètro.		Number	•		Prop.	Number
Year	Number	•	Status	SMSA	Whites .	s _{wb}	R.	Black	Students
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•			•	•	· · · ·		#** · · · · · · · · · · · · · · · · · ·		
	C74/074			4-	1 54540	0.00450	10 02554	0:32919 -	94105
1	5316230		1	47	54512	0.02450	0.92556		
2	5316230		1	47	52994	0.02136	0.93350	0.32123	90157
3	5316230		1	47	50693	0.02025	0,93937	0.33393	89300
4	5316230		, 1	→ -47	42982	0.03059	0.90390		75518
5 .	5316230		1	47	39037	0.64741	0,85454	0.32592	71386
΄ 6,	5316230		1 .	47 📑	.` 35282	0.06318	. 0.81989	p.35078	6952Q:
	*			1	*				
53162	30 - ~ -	6	•				_	•	
Dal	llas)		` ^		,	;			•
	. "					/•			
	4-4-5-	î					• • • • • •	. 0 5 4 0 0 3	
1.	4504378	•	٠ 1	41	36216	0.07944	0.85815	0.56003	, 85742 .
2	4504378		1,	41	34220	0.08378	0.85355	0.57207	83880
3	`4504378		1	41	33495	0.07510	0.86775	0.56792	1 81 420
_ 4	4504378		1	41	321-32	0.06851	0.87879	0.56527	78264
5	4504378	,	1	- 41	30509		0.89339	0.57048	. 75310
6	4504378		1	*41	29152	0.05512	0.90207	0.56278	71488
· • .									
450 4 3	78	6	,			_			
' c1	eveland		-			•	,		
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	E0.25.				***				9 4 4
1	5202940.		. 1	118	34868	0.04112	0.92151	0,52389	73452
3	5202940		1	118	34724	0.05689	0.89581	0.54603	76736
3	5202940ຼ		1	118	40545	0,07866	0.84618	0.51139	83306
4,	5202940°		1	- 118	35280	0,09753	0.82198	0.54786	78376
5 1	5202940		1	118	30297	G.12694	0.78696	0,59587	75303
6	5202940	•7	1	115	‡2510	0.48229	0.32885	0.71859	44800
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52029	40	6		~			-		
Me	mphis .		*	,					
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1	`5909600		1	122	51854	0.04924	0.823713	0.27933	75982
2	5909600		1	122	51252	0.04909	0.82439	0.27953	75719
3	5909600		` <u>1</u>	122	49427	0.05001	0.80809	40.26059	71222
, 4	5909600		i	122	46842	0.05931	0.79611	0.29096	71224
5	5909600		<u>1</u>	122	41884	0.06832	0.78686	0.32052	66588
6	5909600		ī	122	38473	0.07598	0.77299	0.33471	63245
_	,		_	•				•	•
59096	00	6			•		•	at s	
•	_					•	•	٠.	
- Mi	ĺvaukee		_	•	•		*	4	
*	÷ .		-		,				
1	1434320		1	176	53756	0.03537	√0.7086°0	0.12139	71052
2	1 43 43 20		1	176	53337	0.04137	0.67682	0.12802	71716
• 3	£ 434320	·	. 1	176	51587	0.04488	0.65629	0.13057	69901
` 4	1434320		1 1	176	51365	0.04736	0.63942	°0.13135	6,9470
5	1434320		1	176 •	.48537	0.04852	0.61916	0.12739	65844
6	1434320	•	ĭ	. 176	46262	0.05485	0.60706	0.13960	6 4 2 7 6
	_ ,					•	•		
14343	20	6			•				-
	•								*
≺ Sa	n Diego				• '	. *		•	. **
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1	4504380		` 1	~ 45	49078	0,07844	0.69402	0.25635	66287
2	4504380		1	45	49057		0.69432	0.26391	6 o 965
~ 3	4504380	•	1	45	47238	0.08526	0.66501	0.25451 -	63687
4	4504380		1	45		. 0.09378	0.65342	0.27060	62133
5 '	45 04 38 0		1	45	42869	0.10748	0.62536	0.28688	60485
6	4504380		• 1	45	39991	0.11387	0.61725	0.29750	57274
			•		• • • • • • • • • • • • • • • • • • • •	01110			
45043	An 🤻	6	•				*		_
	-	٠					*		
Co	lumbus		•						
	•		•	•		•	•		
"·1"	1900870		1 '	198	38834	0.03459	0.83691	0.21208	53564 -
			1	198	39781	0.03942	0.81180	0.20947	55102
· 3	1900870		_		_				
4	1900870		ı 1	198	39734	0.04635	0,76256	0.19522	53441
-	1900870		1	198	10312	0,24510	0.03128	0.25302	14750
5	1900870		1	196	11936	0:21929	0.05076	0.23102	16925
6	1900870		1	- 198	10963	0.23618	0.06416	0.25238	16095
190 08	170 Mn#	6				v .		,	

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Year 🕹	School District Number		tro	SHSA	Number Whites	s _{wb}	R _{vb}	Prop. Black	Number , Students
1 2 3 4 5 6	3529280 3529280 3529280 3529280 3529280 3529280	* √* . 3	1 1 1 1 1	170 170 170 170 170 170	26727 25651 23815 20880 19735 18148	0.12087 0.13065 0.12331 0.10988 0.09990 0.09919	0.81394 0.80241 0.81655 0.83930 0.85399 0.85544	0.64964 0.66124 0.67214 0.68373 0.68418 0.68614	76994 76415 73372 66678 63156 58628
*352928 St.	0 Louis	6 .		• *			, . ,	¥	
. 2 3 4	2801170 2801170 2801170 2801170	~	1 1 1	134 134 134 134	18797 17740 15863 12568	0.16798 0.18861 0.22159 0.24497 0.25947	0.75866 0.73326 0.69088 0.67445 0.65570	0.69602 0.70710 0.71685 0.75248	6,4869 64230 •60604 56251
•5 6	2801170 280 ₁ 170		1 .	- 134 134	12416 6557	0.35895	0.56819	0.75362 0.83128	54724 42634
280117 New	Orleans	6			•	•		4	•
1 2 3 4 5	2404770 2404770 2404770 2404770 2404770 2404770		1. 1 1 1 1	86 86 86 86 86	51683 50289 48418 44121 39746 35759	0.07561 0.08050 0.08375 0.09969 0.10440 0.20915	0.77769 0.77033 0.76719 0.72910 0.73069 0.49182	0.34010 0.35050 0.35974 0.36798 0.38764 0.41156	78319 77798 76067 70302 65391 61313
240477		6 -	••		,				, , ,
Indi	ianapolis	r			- <i>-</i>		• `		••
1 2 3 4. 5	3102790 3102790 3102790 3102790 3102790 3102790		1 1 1 1 1	27 27 27 27 27 27	31465 31006 29764 27339 23420 21776	0,09925 0.09965 0.09032 0.08629 0.09150 0.09804	0.63764 0.66423 0.70276 0.73154 0.73112 0.70550	0.27391 0.29679 0.30387 0.32142 0.34031 0.33290	46917 48229 47623 45632 41042 38970
3 iû 27 9 Bos		6			•	·.			
1 2 3	2000120 2000120 2000120	•	1 - 1 1 1	13 13 13	27244 25275 21167	0.07403 0.09611 0.17972	0.88152 0.85197 0.74051	0.62482 0.64927 0.69259	72730 72155 68918
. 4 5 6	2009120 2000120 2000130		1. 1 1	13 13 , 13	17586 13440 6641	0.21150 0.25835 0.43538	0.70244 0.65813 0.48031	0.71078 0.75570 0.83777	61231 56071 41614
200012	0. lanta	6,	_			•	* ,		•
	,'·		* *	•		ŧ		•	
1 2 3 . 4 5 6	1503360 - 1503360 1503360 1503360 1503360 1503360	,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	51 51 51 51 51 51	33468 32656 30984 28769 26766 24460	0.03872 0.06647 0.07364 0.08099 0.10391 0.10656	0.74669 0.56276 0.53565 0.50914 0.40462 0.40346	0.15284 0.15202 0.15859 0.16500 0.17453 0.17863	54313- 54256 51889 50262 47979 44852
150336 Dên	SO over .	6				•		•,	•
1 2 3 4 • 5	4100060 4100060 4100060 4100060 4100060	•	1 1 1 1	5 5 5 5 5 5	23312 23185 23335 21931 21674	0.01500 0.01724 0.02003 0.02023 0.02112	0.43771 0.38750 0.28023 0.30195 0.25813	0.02667 0.02814 0.02782 0.02898 0.02847	40752 41537 41874 39747 39478
. 6	4100060	-	i.	໌ 5	20232	0,02190	0.24924	0.02918	37907 -
`41000 Al	60 buquerque	6	٠.	` ,	114	•	•		
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~ ×	School		•						
	District		Hetro		Number	٠. ن		Prop.	Number .
Year	Number	•	Status*	SMSA	Whites	Swb	R _{wb}	Black	Students
		,	•	•	. –	WD	WD		
7.						,	•		
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1	1434410		. 1	- 177	18486	0.14351	0.50452	0.28963	44671,
2	1434410	•	1 ,	177	16496	0.14387	0.48923	0.28168	43880
, 3	1434410			177	15427	0.16148	0.45472	0.29615	40473
			1			0.10170	0,70772		_
4	1434410"		1 '	177 `	5832	0.32291,	-0,00078	0.32239	17879
5	1434410		1	177	5060	0.32956	- 0,00829 ~	0.32396	17.002
. 6	1434419	•	ī	177-	4673	0.32403	-0.00593	0.32000 -	16847
. •	7404414		±	1//	4070	0,02,00	0,005,0		2001.
	_				•		,	•	
143441		ູ6 .		•				*	
San	Francisco				_				
	-				•		. '	1	•
٠.					_			1	
1 `	4302970 .		1	3.7	31470	0.08631	0.70874	0,29631	· 44 949
2	4382970		. 1	37	31120	0.09569	0.68032	04.29932	44698
				37			0.09095	0,32725	29 060
3	4302970		. 1			· 0.29749 ,			
4	4302970		1	37	18919	0.32528	0.02939	0.33513	28702
5 .	4302970		1	37	18512	0.32748	0.02993	0.33758	28 239
-			ī	3:7		0.34363	0,03356	0.35557	26400
, 6	4302970		1	3.7	10000	70.04000	4,05050	0.03337	20200
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430297	o ,	6	_			¥			
	•	_				٠.			
Char	lotte- Meck	Teupnit	3		•		-		
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• 1	4011340	-	1	136 `	8793	0.23502	0.66699	0.70576	48-810
				136	7408	0.22555	0.67183	0.68728	46 492
ş	4011340		1.						
3	4011340		1	136	7274	0.20666	0.69120 ^		44 446
4	401134°C.		1 '	136	6164	0.20662	0.69681	·0.68148	45 410
5 (4011340		ī	136	6239	0.19018	0.71732	0.67280	43160
			_					1 7 -	
ő	4011340		1	136	.5662	0.19160 .	0.71465	0.67146	.41989
צ				7	•	,		• /	
401134	۰,	6					´ '.		
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News	ark							, <u>.</u>	
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	•								
4	4504775		4	40	28527	0:14307	0.66674	0.42931	50269
1	4504375 `		1						
. 2	4504375		1	40 *	27511	0.14807	0.654829	0.43333	48760
3	4504375		1	40 -	25918	0,15062	0.65 40	0:44223	46777
4.							0.67298		
	4504375	_	1 ~	40	. 23970	0.14393		0.44011	43123
5 ·	4504375		1	40	21036	0.15212	0.67550	0~46880	39951
6	4504375		1	40	19769	0,15048	0.68286	0.47449	38005 -
•			• ,		•		••••	•••••	••••
	_	. 1	•						
450437	5/	6 `							•
Cin	cinnati			•	•			-	
0111	~					*,			• ′
	5707710		4	18 2	40931	0.06922	0.44758	0.12530	50854
1			1						
2	5707710		١ 1	. 182	² 37939 ²	0.07421	0,43632	0.13166	47805
3 ′	5707710		<i>.</i> 1	182	32334	0.07269	D.45326	0.13295	41196
7			ī	182	24824	0.08768	0.38078	0.14159	32375
	5707710								
` 5	5707710	-	1	' 1,82	11335	0.07551	0 43308	0.13318	1 4799
6	5707710	•	1	182	23329	0.10183	0 .33394	0.15289	31166
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57 07 Ž	4.0	. 6				•		•	
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Sea	attle								
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1	5338730		1	174	10327	0.03029	0.80548	0.15550	43563
5	5338730	<i>,</i> •	1.	174	7796	0.06566	0.47431	0:12490 -	. 39657
3	5338730		ĩ	174	7204	0.07078	0.43906	0.12618	38699
4	5338730		1	174	6500	0.07273	0.42537	0.12656	36756
5	5338730	•	1	174	5282	0.07949	0.38279	0.12879	34910
6	5338730		ī	174	4953	0.07975	0;38469	0.12960	. 34189
•		•	•		7,70		7	4115,00	0 4107
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53387	30	. 6 .	•						
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581	n Antonio		*			₹> .			•
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1	` '4630 24 0·		1	205	36670	0.01545	0.87071	0.11951	44282
2.	4630240		ī.	205		0.02277	0.83705	0.139.72	4 4511
		•							
. 3	4630240		1	205	35213	0.02785	0,79634	0.13673	42507
4	4630240		. 1	205	32146	0.04459	0.71357	0.15566	' 39862
5	4630240		1.1	205 ·	29224	0.05345	0.64224	0.14939	
. 6		•		. 205		0.05734			
В	4630240		1	. 205	25867	0.05/34	6.62626	0,153.43	32445
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46302	4.0	6						~ -	
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. ·	District		Metro.		Number		, ,	Prop.	Number
Year	Number	, ;	Status	SMSA	Whites	Swb	R _{wb}	Black	Students
•	,		,	* . •	1	,			
1	4819170		1	152	24968	0.15688	0,.63053	0.42461	43819
2	4819170	,	î.	152	24064	0.15376	0.64207	0.42958	42418
3	4819170		` 1	152	24150	0.14612	0.65476	0.42326	42114
4	4819170		. t	152	21546	0.14288	0.66529	0,42689	37886
5	4819170		1	152	17482		0.62278	0.45097	32142
6	4819170		91	152	17772	0.16196	0.63462	0.44326	32218
481917	in .	. 😴				•		-	
	tsburgh	٠.١	,		X	•	• •		
	ear argu				3		•	•	•
1	4710050	- [1	. 155	43765	0.04231	0.47235	0.08019	48847
2 ′	4710050	- 1	1	155 [†]	- 343665	0.04686	0.46113	0.08695	49361
, 3	4710050	- 1	1	155	541018	0.04348	0.45882	0.08034	45965
4 5	4710050 4710050		1	155	38069	0.04941	0.46851	0.09296	43491
á	4710050	•	1	155 155	34601 32651	0.06672 0.07328	0.30797 0.28967	0.09641 0.10317	39766 ⁻ 37987
_	,			- E. T.	, OEU21		0,20707	0.10317	37 967
471005	0	6	,				• • •		
Por	tland			•	•			. ~	
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1	2800540		1	19	23829	0.03463	0.90351	0.35886	37377
2	2800540		1	19	24409	0.04189	0.88400	0.36116	38 459
3	2800540		1	19	22609	0.10941	0.71711	0.38676	37106
5	2800540		1	19	21159	0.10273	0.74244	0.39885	35482
6	2800540 2800540		- 1 1	19 · 19	21203 20392	0.10298 0.10771	0.74045 0.73264	0 _* 39678 0.40287	35544 34517
		•	•	1,7	20072	0.10()1	0.73204	0.70207	3491/
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É.	Baton Rouge			•		•		•	
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1	1002370			424	07044	0.04740	. 07700	0.40407	10075
2	1002370	· · ·	1	124 124	2394 <u>1</u> 21245	0.06762 0.15080	0.83302 0.62947	0,40497 0,40698	40235 35825
2 3	1002370	•	ī	124	17127	0.18138	0.53868	0.39317	28283
4	1002370		1	124	13919	0.24502	0,38636	0.39929	23231
5	1002370	•	1 •	124	14376	0.23465	0.39764	0.38956	23601
6	1002370		1.	124	14416	0,23324	0.39094	0.38295	.23442
10023	70	6	•	-		-		•	•
	bi 1e	•		c)	•				*
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1	1428050		1	177	11262	0.20887	0.62624	0:55885	36910
3	1428050		1 ,	177	10325	0.23571	0.59003	0.57494	35647
3 4	1428050		1	177	9682	0.26,236	0.55866	0.59446	35,802
5	1428050		1	177* 177	8839 7713	0.27899 0.30383	0.54091 0.51525	0.607691 0.62677	34641 - 32988
6	1428050	• `	مبر 1	177	6897	0.32475	0.49176	0.63896	30963
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14280		6		-	•	•			
Oal	kland ,	v .	,	-		<i>(</i> .		•	
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1	3516400	4	1 -	93,	22868	0.13193	0.73497	0.49780	45536
- 5	3516400		1	. 93	21759	0.12367	0.75900	0.51317	44695
3	3516400		1	· 93	20101	8712044	0.77127	0.52657	42458
.5	3516400 3516400		1 3.	· 93	18399 16258	0.12124 0.12748	₫.77488 •0.77238	0.53855 0.56005	39872. 36954
. 6	3516400		1	93	13066	0.14469	0.74839	0,57504	33570
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35164	,	ĉ	•			-		_	
Kan	sas City M)			` .			•	
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1 2	4205850		1	31.	27131	0.11365	0.68437	0.36006	44634
<u>ر 2</u>	4205850		1	31	25526	0.12903	0,63079	0.34948,	41445
` 3 4	4205850		1	31	25052	0.13180	0.63340	0.35953	11813
5	4205850 4205850		1	- 31 31	• 22883 . 20665	0.13689 0.14536	0.64463 -0.63539	0,38521 0,39867	39802 3724%
` 6.		•	i	31	19775	0.14297	0.62862	0.38498	3 7 7246 . 3 4893
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But	ffalo .			-	116				
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	Year	School District Number	Hetro. Status	Smsa	Number Whites	s _{wb}	Rwb	Prop. Black	Number Students	,
,	1 2 3 4 5 6	1422500 1422500 1422500 1422500 1422500 1422500	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	110 110 110 110 110 110	31927 30882 30015 28470 26487 24460	0.04315 0.04936 0.05618 0.06221 0.07097 0.07203	0.54818 0.51710 0.49443 0.46589 0.44221 0.45974	0.09551 0.10221 0.11112 0.11648 0.12723 0.13333	38846 38204 37230 36059 34222 33338	
	142250 Long	Beach	6		. '			•	•	
	1 2 3 4 5	3774820 3774820 3774820 3774820 3774820 3774820	1 1 1 1 1	143 143 143 143 143 143	28673 28970 28690 27020 27124 25698	0.04981 0.05570 0.05576 0.06627 0.07319 0.07086	0.73190 0.70633 0.71176 0.67690 0.64730 0.61853	0.18580 0.18968 0.19344 0.20510 0.20752 0.18575	36135 36899 36673 35115 3536 32667	
الو	377482 Qmai		6	•	», حد	•		* .	,	
	1 2 3 4 5	1208760 1208760 1208760 1208760 1208760 1208760	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	204 204 204 204 204 204	18639 18912 18800 20617 20968 20655	0.02895 0.02781 0.03164 0.03208 0.02950 0.03078	0.53474 0.51444 0.45517 0.43786 0.46218 0.42090	0.06222 0.05728 0.05808 0.05706 0.05486 0.05316	29187 28929 29390 32193 32394 32076	
	120876 Tuc		6- 1	• .		• •	• ,	•		,
,	1' 2' 3 4 5 6 *	5318300 5318300 5318300 5318300 5318300 5318300	1 1 1	57 57 57 57 57 57	17507 17536 16792 16406 15170 14876	0.03816 0.04298 0.04284 0.04354 0.04490 0.04619	-0.00526 -0.00897 -0.00990 -0.01140 -0.01313 -0.01289	· 0.03327 · · 0.03251	40156 40212 39946 39984 38920 39036	
	531830 E1	•	6			•		, , ,	,	
•	1 2 3	4504490 4504490 4504490 4504490 4504490 4504490		201 201 201 201 201 201	27894 27960 26946 26821 25505 24053	0.08484 0.10173 0.10379 0.09677 0.09869 0.10096	0.71170 0.65514 0.64435 0.67143 0.66198 0.66474	0.29429 0.29499 0.29181 0.29451 0.29196 0.30113	40933 41161 39669 39791 37909 36433	
	450449 Tole		6				1	r	.7.	
	1 2 3 4 5	3321240 3321240 3321240 3321240 3321240 3321240 3321240	1 1 1 1 1 1	123 123 123 123 123 123	33774 32648 30646 25750 23188 20792	0.05733 0.05746 0.06383 0.06485 0.06896 0.07118	0.33168 0.36576 0.38055 0.40559 0.40658 0.36069	0.08579 0.09060 0.10304 0.10909 0.11621 0.11134	38526 37871 36209 30900 28147 25535	
	332124 Min	O neapolis	6			,		•		
•	1 2 3 · 4 5 6	4622770 4622770 4622770 4622770 4622770 4622770	" 1," 1 1 1 1 1	142 142 142 142 142 142 • 142	33087 28784, 26921 26260 10485 9027	0.01827 0.02681 0.03623 0.04866 0.25914 0.27096	0.92105 0.88769 0.84939 0.79570 0.03109 0.03618	0.23137 0.23871 0.24056 0.23820 0.26745 0.28113	43047 40296 37911 36965 14855 13140	
•	462277 Okla	0 ihoma City	6 ' ' ' '	•	117	·		· 1	• / · · · ·	

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	School		٠.				f ,	
,	District	Metro.		Number		• _	Prop.	Number
Year	Number	Status	SHSA (Whites	S _{wb} s	R _{wb}	Black	- Students
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	4000700			00007	0.05440	0.00244	o	44044
1 2	1000390	1	2 4 24	22283 21218	0.05140 0.07055	0.90216 0.86953	0.52530 0.54077	.4694 <u>1</u> _ 46203
3	1000390 1000390	- +	24	19037	0.16684	0.70028	0.55666	429#0
4	1000390	. 1	124	17301	0.17445	0.69298		40134
5	1000390	. 1	~ 24	15458	0.17604	0.70603	0,59882	38651
6	1000390	1,	24	13536	0.17665	0.71705	.0.62 43 2	~36156 ·
	_ * ;				*		•	.* .
100039		6	•		\ .			•
. 300	ningham	΄.			-i /		•	
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2	2612990	1	216 216	32294	0.03620		0.14405	38682
3.	2812990 2612990	1	216	30406 28129	0.04368~ 0.06907	0.71047 0.57074	0.15088 0.16089	3677.8 34526
4 '.	2612990	i	216	. 24865	0.16604	0.03692	0.17241	31228
5	2612990	ī	216	22992	0.17290	0.01951	0.17532	29227
. 6	2612990	1	216	22012	0.17450	0.02308	0.17862	2827.8.
,	<u>.</u>			٠.	A. Tar			•
261299		0 ~	• • •	. 4		• • • • • • • • • • • • • • • • • • • •	•	
Wich	nita ((3)	• • • • • • • • • • • • • • • • • • • •	,		•	• .	
٠, 1	5002310	. 1	7,8	24110	0.03727	0.84648	0.24275	31839
2	5002310	1	78	22799	-0.06,224	0.76472	0.26455	31000
• 3	5002310	` 1 '	78	7272	0,21273	0.05985	0.22627	-9409
* 4	5002310	1	78	13812	0.21834	0.01842	0.22243	* ·17776
5	5002310	1	78	13990	0.21199	0,02162	0.21668	17879
. 6	5002310	ρ · 1	78 ′	12661	0.20314	0.02576	0.20851 🗥	16023
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		ζ`	,					* 60.45%
1)	5308940	. 1	16	16359	0.02388	0.84305 0.77390	0.15213 0.12196	2665 4 2795 1
2 5	5308940 5308940	1	-16 16	18024 18066	0.02758 0.02974	0.76775	0.12806	2865 B
. 4	5308940	, i	. 16~	18266	0.04030	0.73063	0.14959	29821
. 5	5308940	_	16	. 11679	0.04584	0.75879	0.19005	21642
₹. 6	1,5308,940	1	16	3087	0.14324	0.14769	0.16806	6361
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530894		• ,		1	,		· ·	m 4
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1	1414550	4	70	22229	0.01485	0.84519	ò.09593	33106
Ž	1414550	1	70	22057		0.789.95	.0.08975 -	
3	1414550	, .1	70	21508	0.03031	. B. 6732A	0.09277	31939
4	1414550	1	70	. 20578	0.03196		0.09681	30720
5	1414550	1	70	19944	0.03386	0.65082	0.09697	, , 30245
6	1414550	. 1	70	19213	0, 03744	0.63362	0.10219	29974
14145	50 .	8	•	•		~, \ \ \ \ \		
	sno	8	ŕ	4		٠ ١ ١ ١ ١ ١		>
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1	4504348	1	` 2	23797	0.10391	0.59236	0.25491	🔩 32046 🕺
' 2'.	4504348	,1	. 5	23492	0.11504-		0.26713	32157
3 4	4504348	· · · · · · 1	- 2	22638	0.11653	0.57603	.0.27484	31327
4 5	4504348	• 1	2	21513	0.11927		- 0.27972 ·	
6	4504348 4504348.	· 1	2. 2 2. 2	20272 18721,		0,56563 0,54768	0.28800 0.29901	28597 2686 5
·	7204070	" I		10/21,	0.13252	0,24,00	, 0.533dI	. 20002
45 b 434	48	6 *	•	٠,	*	•	•	<u>"</u> , ",
Akı	ron		•					and the second
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. 1	2800300	1	183	18531	0.01576	0.96676	0.47404	35385
2	2800300	1	183	,16961		0.80012	0.48854	33465
, 3 , 4	2800300	1	183 · 183		0,16942 0,12664	0.66685 0.76074	0.50855 0.52930	29006
. 4	2800300 2800300	1	183. 183	· -1476	0.12004	0.05386	0.96763	3157 1699
, 6	2800300	. i	183		0.96087	.,0,00000	0.96087	1099
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1 1	04384	1	. 49 ,	", 2 5485	0.06612	0.81677	0.36083	
` 2 45	04384	* 1 '	49	24182	0.07473	0.79595	0.36625	38329
	04384	ī	. 49	23137	- 0:08369	0.76765 ~	0.36019	36334
		_	49	15951	0.06017	0.79676	0.29605~	22783
	504384	1				0,77200	0.34220	20856
5 49	504384	1	49″ 🕠	13641	0107802	U ₂ 77200		
6 49	504384	1'	. 49 `	13832	0.10054	0.70992	.0.34660	21324
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1.546.1	4-14880	• ' 1	9	25737	0.00174	0.08121	0.00189	29087.
3 № 1	414880	· 1	ģ	25425	0.00235	0.06481		
	414880		-				.0.00251	~29433 / ·
		. 1	9.	_ 23133,	0.00348		0.80382	27211
_	414880	1. '	9	22543	0.00435	0,10900	0.00488	26860 •
6 1	414880	1	` 9	20527 .	0.00552 .	0,13542	0.0063B	24760 4
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- 1 2	703600	. 1	. 111	16732	0.14128	* 0-71417	0.49428	33151
						0.75286	0.50328	31746
	703600	1	111,	15739	0.15.40		0.48363	29049
	703600	1	111	14962	0.11068	0.77115		
4 2	703600	1	111	₹ 13787	0.10723	0.77905	0.48529	26854
	7 03600	» <u>ī</u>	111	12751	u.10794^-	n, 78846	0:51025	26091
	703600	. 4	, 111	11840	0.11794	0.77205	0.51739	24589 ·
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- 4 4	4 724 4 0	• .	167	19446	0.11728	0.19752	0.14615	2943-5
	4 3384 0					0.19563	0:15149	29151
21	433840	1 *	167	19051	0.12185			27303
4 1	433840	1	167	17168	0.12802 -	0.22186.	0.16452	2/303
	433840	. 1	167	16393	0.13174	0.21111	0,16700	26372
	433840	1 '	167	15383	0.13590	0.21343	0.17278	25044
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	602670	1	138	17173	0:06417	0.85473	0.44174	31555
				181 27*	0.07746	0.82322	0,43815	33153
	602670	. 1	138		0.15356	0.68697	0.49055	23918
3 :	602670	. 1	138 `	11812				
4 * 5	6 0267 0	. 1	138	5252	0.45269	0.06165	0.48243	,10532
	602670 ~	. 1	138	4870	0.49453	0 -05060	0.52089~	10459
	5602670	` i	138	7413	0.48566.	0.05885	0.51603	41 5910
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	3333840 ′	1	123	23231		0.29385		26045
	3333840	/ f *	123	23083	0.04597	0.30757	0.06639	25982
	3 3 3 3 8 4 0	ī	123	232.79	0.04550	0.,33238	0.06815	, 26426,
	3333840 .	ī	123	19672	0.04756	0.37112	. 0.07563	22609
					0.04799	0.39831	0.07977	. 21265.
	3333840	1	123	18358				
• 6	3333840	1	123	16901	0.04964	0.41544	0.08492	_ 19806[.
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3333840	. 4	ξ.			, .		•	•
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- St. P	aul .	oto y t	-	•		•		
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4	4304500	4.	77	19187	0.03521	0.88303	0,30098	_ `27490
1	4301500							
	4301500	્ર * 1 *	7.7	19227	0.03779	0.86835	0.28704	27010
` 3	4301500	'· 1	• 77	16275	0.09431	0.66652		22757
	4301500	• " 1	` 77	6725	0.30343	0.02296	31056 و ا	9776 -
	4301500		79	6467	0.30493	0.03280	0.31527	9465
		i	77	6121	0.31985	0.04846	0.33614	9261
· (<u>6</u> ~	4301500	1	: "	0121	0.01,63	212 1010	0.00017	, a.u.a.
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4301500	4	6	,			•	,	, wi
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Year	School District Number		etro. tatus		SMSA		Number (s s _{wb}	R _{wb}	Prop	Number Students
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·** 4	5745070	' •		•	46		1.0805	0.00477	ຸ ປ. 9186 5	0.05858	24581
. 1, 2	5315270 5315270	`-	1		46 .	•	10895 10594	0.00527	0.90795	0.05728	24391
- 3	5315270		ī		46		10050	0.01242	0.78399	0.05752	24357
75.75	•`	_ ^	-			_	٠,	: '	-	12 ST	•
5315270		3`	•				` ' <		~-	· ***	
Corp	us Christi	•					*	,		•	•
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	2407070				73.		7186*	0.09021	0.86198	0.65358	26546
1 2	2403870 2403870		1		73.		6799	0.11836	0.82143	0.66283	26 681
`3	2403870	•	Ĩ. ~		73		6049	0.12283	0.81775	0.67397	25599
4 1	2403870		1	•	73		4850	0.10453	0.84761	0.68590	20274.
5 6 .	2403870 2403870		1 1		73 73 .	_	4200 5430	0.08999 0.14019	0.86919 0.78170	0.68797 (0.64219	17819 19351
• (•	•	,,,,	•••	2100	* ^^		, 0,0421,	, 2,0,2
240387	0	6					•	,	• • ′		t · ·
'Gar	у .		•		•		+		• • •	, ,	
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· 1	5603240		1	·	163	•	7780	0.16597	0.76340	0,70147	26389
. 2	5603240		1,		163		6712	0.18266	0.75043 0.59299	0.73189	25296
4	5603240 5603240、		1	•	163 163	J	5559 2401	0.20672 0.62958	0.10736	0.50790	11390 8232
5.	5603240		ī		163		2271	0.60051	0.13435	0.69372	7529
6	5603240	•	1	•	163		1797	0.67549	0.10226	0.75243	739 6
560324	,	6							·	•	*_
	hmond	``.	•	•		•				,	•
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٠.	•		•			. 1	*	· -			_
1 2 ·	4224750	. •	1		165	•	17529	0.16842	0.37775 0.38098	0.27066	25 283
. 3	4224750 4224750		7 1		165 - 165	-	17168 14577	0.17921 0.18041	0.41624	0.28951 0.30905	257 26 22605
4	4224750		. 1	•	165	•	4608	0.20883	0.48809	0.40795	8180
. 5	4224750		1		165		1651	0.20603	0.63674	0,56718	41 68
422475		5	÷ "	4	•		•	, * `			,
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۱ 1	2403630		``1	ί,	68		20175	0.05122	0.66814	0.15435	24217
. 2	2403630	•	ī	-	68		20566	0.05965	0,61423	0.15464	24768
3	2403630		1 #	•	68		20433	0.05684	0.64774	0.16135	24810
. 5	24 03 63 0 24 03 63 0		1.	•	68 68	·	19199 18778	0.03420 0.03703	0.52797 0.53279	0.07245 0.07926	21 07 6 20 77 9
. 6	2403630		i		68	•	17894	0.03848	0.51468	0.07930	19824
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240363		_, ·6	. ` .			*		•		g. p.	-
* ***	Wayne	٠,					•	`	•	,	
; 1	2508970	,	1		52		24589	0.04741	0.42604	0.08261	27128
Ž	2508970	J.	ī		52		23883	0.05534	0.34016	0.08387	26386
3	2508970		1		52		23268	0.05115	0.32557	0.07583	25450~
` 5	2508970 2508970	٠.	`1 1		52 52		22311 15621	0.04852 0.06074	0.38168	0.07846.	24521 17758
-, -6-	2508970		i	•	52.	*	14923	0.05201	0.39782	0.08636	16662
		•				:	•	, , , , , ,			
250897		6	4 ,			:	, , , , , ,	***	***	,	
Des	Moines	*					•		~		· , • `
1	2334510		' •	-	166	• •	16375	0.05813	0.40562	0.09779	18345
; 2	2334510	,	i		166		21719 (0.37602	0.07774	23605
¹ 3	2334510	*	ī		166		17314	0.05637	0.29250	0.07967	. 418991
. ,	2334510		1	(166		18784 17783	0.05720	0.31832	0.08391	20737
' 5 6	2334510 2334510		1	-	166		17783	0,05949 0.06993	0.37386 0.31222	0.09500 0.10168	19936 • 19395
14	•	•	•		,	_					·
233451		6	٠.			- " u		•		,	• 4
, Roc	kford ILL				•	- '		120	100	*	.*
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School > District		Hetro.		Number			Prop.	Number
Year Number		Status	SHSA	Whites	s _{wb}	R _{wb}	Black	Students
	,			40074	.0.22238	, ,0,51776	0,46115	25443
1 4007830 2 4007830	•	1 1	> 90 90	10231 10041	0,21953		0.44788	25748
3 4007830		i	90	9464	0.20649	0.53889	0.44781	25687
4 4007830		ī	90	9.461	0.20100	0.54993		26043
5 4007830		1	, 9 0	9009	0.19392	0.57932	0.46097	26418
4007830	•	1	90, ,	. 8101	0.17867	0.61540	0.46457	26007
4007830	, 6	,		,	•			
Jersey City	•	· . ~	,			•	•	
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1402640	0	•			•		· 1	•
Anaheim	•							
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2 1	`		. 3.6	. = = = =		. 77547		00447
1 1434590		1	178	13702	0.00965	0.37547 0.40317	0.01545 0.01663	20447 20630
2 1434590 3 1434590		, <u>1</u>	178 178	14017 14624	0.00992 0.01029	0.36373	0.01618	21451
4 1434590		1 .	178	14656	-0.01096	0.27952	0.01522	21159- (
5 1434590	•	ī	178	.14684	0.01000	0.29076	0.01410	21059
6 1434590		1	178	. 14347	0.01075	0.26483	0,01462	20448
1434590	6	•	A	P ^r	ē			•
San Jose		. ,	,			•		
,	,	٠.	- 4					24050
1 1002430		1	126	14608	0.03470	0.92423	0.45796	26950
2 1002430		1	126	14364	0.13707	0.70063 0.50632	0.45786` 0.48673	26495 22682
3 1002430		1	126 126	11642 11311	0.24029 0.25446	0,48778	0.49677	22477
4 1002430 5 1002430		` 1	126 ·	9666	0.24837	0.49607	0.49286	
6 1002430		i	126	10173	0.26019	0.50267	0.52317	21383
10 0243 0	۸.		,		• 1			
Hontgomery AL	. ,	• .	,	Á	• •	•		,
•	-					~	•	`.
1 5346680		1	57	8058	0.01666	0.44233	0.02988	22425
. 2 5346680		1	57	7458	0.01938		0,02406	22115
3 5346680		1	57	7533	0.02109	0.13818	0,02447	2325 <i>7</i> 22918
4 5346680		. 1	57 57	7069	0.02628	-0.00037 -0.00111	0.02592 0.02468	23342
5 5346680 6 5346680	,	1	57 57	6822 8737	0.02532	~0.00261	0.02277	23891
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5346680 Yaleta	6.	•		,	. •	•	. `	
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. 1 1503060		1 1	42	14183	0,03401	0.53231	0.07271	. 17507
2. 1503060		1 .	42	14276	0.03569	0,50345	0.07187	17518
3 1503060 4 1503060		1	· 42	14470 15334 %	0.03649	0.40355	0.07065 .0.06465	17805 18762
5 1503060		. 1	42	15758	0.03782	0.40793	0.06388	19238
6 (1503860	•	i	42	15303	0.03725	0.39148	0,06121	18543
1503060	6			·• .	ş			
Colorado Sprin			•			•		×
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APPENDIX 3

Basic Data for 70

Largest Central City

School Systems

(ranked by 1972 enrollment)

SECONDARY

,		•				- 4 <i>,</i>			
Year	School District Number	,	Hetro. Status	SHSA	Number Whites	Swb	R _{wb}	Prop. Black	Number Students
1 2 3 4 5 6	4220580 4220580 4220580 4220580 4220580 4220580		1 1 1 1 1	135 135 135 135 135 135	151483 141909 138009 135621 128564 118180	0.18338 0.20975 0.21655 0.21743 0.22584 0.22701	0.26842 0.26875 0.28183 0.29793 0.32119	0.25066 0.28684 0.30153 0.30970 0.33270 0.34736	268280 274770 285000 298385 297421 287791
422058 New	0 York City	6	-		•	• • .	,	•	• ,
1 2 3 4 5 6	1422710 1422710 1422710 1422710 1422710 1422710	•	1 1 1 1 1	110 110 110 110 110 110	77712 82268 77751 75611 73672 69355	0.03237 0.03404 0.03670 0.04589 0.05578 0.06391	0.82265 0.83099 0.81965 0.78930 0.75550 0.73031	0.18252 0.20140 0.20348 0.21779 0.22814 0.23699	133101 142606 136735 137658 138341 137031
14 2271 Los	O Angeles	, 6 -	,	**************************************	.	· - :			
1. 2 3 4 5 6	2309930 2309930 2309930 2309930 2309930 2309930	· · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	39 sg 39 39 39 39 39	59507 56691 53930 51068 48026 46338	0.12582 0.12545 0.12204 0.11949 0.11285 0.10552	0.73274 0.74550 0.75853 0.77156 0.79091 0.81001	0.47077 0.49293 0.50540 0.52307 0.53973 0.55540	128519 130463 130262 131338 131920 133507
230993 Chi	O . cago	6					•		
1 2 3 4 5	4818990 4818990 4818990 4818990 4818990 4818990	••	1 1 1 1 1	149 149 149 149 149 149	29243 28214 28315 26007 27258 27127	0.23637 0.23974 0.21447 0.20699 0.21607 0.21684	0.53275 0.54866 0.59219 0.61601 0.62175 0.62082	0.50588 x 0.53117 0.52589 0.53906 0.57124 0.57186	60607 62135 61931 59090 66587 67445
481899	0 Ladelphia	6	`						,
1 2 3 4 5 6	3212000 3212000 3212000 3212000 3212000 3212000	,	1 ~ 1 1 1 1 1 1	53 53 53 53 53 53	28323 26554 22920 22299 19853 17342	0.24045 0.23731 0.24447 0.25688 0:27960 0.30630	0.53826 0.57401 0.59707 0.59382 0.57955 0.55156	0.52074 0.55707 0.60674 0.63244 0.66500 0.68304	60754 61806 60240 63129 62217
321200 Deta	O roit ,	ĝ		•		•	•	,	
1 2 3 4 5	5323640 5323640 5323640 5323640 5323640	•	1 1 1 1 1	83 83 83 83 83	27334 27869 24760 23516 22606 20609	0.03081 0.04080 0.09676 0.10329 0.12095 0.12975	0.90163 0.87212 0.69556 0.67939 0.65696 0.65962	0.31319- 0.31909 0.31784 0.32216 0.35257 0.38140	460 45 47667 42858 41821 42564 41405
5 3 2 3 6 4 • Hỏu	0 ston	- 6		,	, · •		•	٠,	34
1 2 3 4 5 6	3000090 3000090 3000090 3000090 3000090		1 - 1 1 1 1 1 1	18 18 18 18 18	14269 13487 13108 12965 12239 11526	0.25927 0.27083 0.28031 0.29653 0.28769 0.30630	0.57539 0.55674 0.55021 0.55047 0.57499 0.56453	0.61062 0.61099 0.62320 0.65963 0.67691 0.70338	36645 34670 34788 38091 37881 39019
300009 Bal	0 timore	6 `			•	124	•	•	-

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School District Year Number	Metro.	SHSA	Number Whites	· s _{wb}	/ R _{wb}	Prop.	Number Students
1 5316230 2 5316230 3 5316230 4 5316230 5 5316230 6 5316230	1 - 1 1 1 1 .* 1	47 47 47 47 47 47	22362 22744 23081 22481 21097 19797	0.02605/ 0.02536/ 0.02751 0.13459 0.15835 0.17900	0,90608 0,90765 0,90941 0,54061 0,51187 0,48994	0.27740 0.27466 0.30367 0.29298 0.32439	33472 34581 36266 35013 35220 34830
5316230 Dàllas	6			,			`, '
1 4504378 2 4504378 3 4504378 4 4504378 5 4504378 6 4504378	1 1 1 1 1 1	41 41 41 41 41	17270 16115 14370 13709 13597 12709	* 0.09447 0.08701 0.09217 0.09084 0.09875 0.10629	0,80491 0.82616 0.83822 0.83513 0.83375 0,82013	0.48423 0.50054 0.56970 0.55094 0.59397 0.59095	34535 33578 34962 32114 35135 32737
450 4378 Cleveland	6		• •		•		
1 5202940 2 5202940 3 5202940 4 5202940 5 5202940 6 5202940	1 1 1	118 118 118 118 118 118	23108 24690 26350 25936 23029 13935	0.02179 0.03535 0.06267 0.08113 0.11018 0.36309	0.95044 0,92423 0.86170 0.82727 0.76716 0.37515	0.43957 0.46650 0.45317 0.46969 0.47322 0.58109	41322 46420 48362 49077 43891 33425
,520 2940 Memphis	6 / .		,	•		•	•
1 5909600 2 5909600 3 5909600 4 5909600 5 5909600 6 5909600	1 1 1 1 1	122 122 122 122 122 122 122	24986 26661 25071 24684 23688 22698	0.05977 0.06910 0.07758 0.07554 0.08026 0.09182	0.69202 0.65240 0.63183 0.67286 0.67087 0.64321	0.19407 0.19880 0.21072 0.23090 0.24385 0.25736	31917 34290 32973 33556 32840 32208
5909600 Milwaukee	6	,		· ·			•
1 1434320 2 1434320 3 1434320 4 1434320 5 1434320 6 1434320	1 1 1 1 1	176 176 176 176 176 176	20198 20264 21046 21020 20525 19708	0.04284 0.04516 0.05411 0.05805 0.06757 0.06802	0.53083 0.51399 0,45520 0,40946 0.42749 0.43011	0.09130 0.09293 0.09932 0.09831 0.11803 0.11937	25432 25353 26451 26305 26722 25845
1434320 • San Diego	6	-					* *
1 4504380 2 4504380 3 4504380 4 4504380 5 4504380 6 4504380	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	45 % 45 45 45 45 45	15221 14851 15052 15755 15628 15012	0.16730 0.16283 0.17281 0.16860 0.17147 0.17712	0.35456° 0.38177 0.37432 0,42355 0.44604 0,44548	0.25920 0.26338 (0.27619 0.29248 0.30953 0.31941	20617 20279 20931 22453 22780 22169
4504380 Columbus	6				٠.,		,
1 1900870 2 1900870 3 1900870 4 1900870 5 1900870 6 1900870		198 198 198 198 198 198	17817 17262 18170 17270 18655 18888	0.03994 0.06029 0.07855 0.15855 0.16314 0.16380	0.73882 0.58469 0.46970 0.01034 0.00851 0.01884	0.15296 0.14517 0.14813 0.16020 0.16454 0.16694	23080 22263. 23425 22303 24547 24865
1900870 Tampa a	6	•			•	¥	

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• 、	School District	43	Metro.	,	,	Number		. \	Prop.	Number
Veen	Number		Status	,	SMSA	Whites	s ·	R	Black	Students
Year	namper .		Scards		, 011011	***************************************	\mathbf{s}_{wb} .	$^{R}_{wb}$	΄ ΄	
									•	
1	3529280		, 1		170	10417	0.13955	0.75050	0.55932	23818
ž	3529280		`i		170	10005	0.14938	0.74220	0.57943	24041
3	3529280	,			170	9786	0.15071	0.75044	0.60393	25013
4	3529280		1		170	9502	0.14144	0.77330	0.62392	25641
	,	,						0.77530		
. 5 . 6	3529280		1		170	9237	0.14226	0.78501	_0.66170	27653
0	3529,280		1		170	8763	0,13277	0.80149	0.66883	26829
3529281	^		•				*			• '
-	_	٠. ۵		-						*
Sc.	Louis `		•							•
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1_	2801170		1		134	8334	`0.19234	0.66780	0.57900	20653
2	2801170		1		134	7863	0.21446	0.62485	0.57167	19191
3	2801170	•	1	*	134	7876	0.23865	0.61629	0.62194	21634
4	2801170	•	ĩ	•	134	7162	.0.26233	0.59059	0.64075	. 20810
5		*			134	6864	0.28430	0.58128	0.67898	22419
	2801170		1	•					0.70538	
6	2801170		1		134	6216	0.29387	0.58338	. 0.70230	22225
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280,117		6				•		•	•	
llew	Orleans	_	_							·
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1	2404770	•	1		86	18807	0.19710	0.38808	0.32210	27743
2.	2404770		. 1		86	18408	0.21394	0.36455	0.33668	27887
3	2404770		` ī		86	17360	0.24534	0.28011	0.34081	26525
. 4	2404770		ī		86	. 16863	0.28980	0.21671	0.36999	26947
`š'	2404770		i		86 .	15900	0.31653	0.18924	0.39041	26321
	2404770		i		86		0.34309	0.18050	0.41866	25412
~ ·6	2707//0		-		,00	-14650	0,34509	0,10000	0.41000	67416
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240477	-	6			•			,		
Ind	ianapolis 🖞		•						• •	
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. 1	3102790		1		27	15738	0.12487	0.34589	0.19091	20303
	3102790		1.		27_•.1	· 15252	0.12429	0,37195	0.19791	- 1 996 9 °
3	3102790		1 '		27		0.13611	0.41682	0.23339	20309
_4	3102799		. 1		27	14069	0.13421	0.49153	0.26394	20402
5 -	3102790		1		- 27	13977	0.13432	0.51638	0.27774	20919
6	3102790		ī		27	13346	0,12471	0.56260	0.28512	20574
	,.	- 10	٠ -		-	, ·	, , , , , , , , , , , , , , , , , , , ,	• •		
- 3 <u>1</u> 0279	0	°6:			•	•	.`		•	
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1	2000120		•		4.7	15004	0 42740	0 70404	0.57188	35084
Ž,	2000120	. •	1 .		13		0.12349 0.15453	0.78406		
			1		13	13857		0.74325	0.60189	, 3485 2
3	2000120		1 .		13	11690	0,23690	0.63931	0.65681	34092
4 .	2000120		1 .	.	13:	9946 -	0.27229	0.60986	0.6 9 793	33026
5	2000120		. 1		13	7810	0.32939	0.56356	0,75473	32168
- 6	2000120		1		13	5163	0.43635	0.46688	0.81848	28906
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nel			•	_		.*	•		•	•
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, ì	1503360		1		51	17942	0.04379	0.58045	0.10438	23586
2	1503360		.1		51		0.06005	0.45431	.0,11005	22617
, 3 [']	1503360	•	- 1		51	, 17224	0.08393	0.28914	0.11806	24436
4	1503360	,	ī		51	15446	0.09945	0.20985	0.12586	21842
. 5 '	1503360		, ī		51	14161	0.09699	0.36875	0.15364	2 08 47.
6	1903360		ì		51	13441	0.10283	0.33578	0.15481	19940
_				,		-0 142	0,1000	0,007,0	4,15,101	20.40
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Den	ver		•				• `		•	•
3%	*****	•			_	44701	0.04044	. 74757	0 04055	40454
1	4100060		1		5	11326	0.81244	0.36357	0.01955	18156
, 2	4100060		1 .		5		0.01330	0,34062		18747
• 3`	4100060		1	*	5	125 78		0.41342	0.02149	20339
. 4	4100060		1		5 5 5	13430	0.01331	0.41832	0.02289	21.673
5	4100060		1		5	14123	0.01644	0.27042	0.02253	22769
6	4100060		ī		5	13851	0.01668	0,28007	0.02317	2 2963
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410006	0	6		•				1		
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1	School		•	,	`	4			
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*	District		Hetro.		Number	, ,, ,	· .	Prop.	Number
Year	Numb er	, –	Status	↑ SMSA	Whites	Swb	. R _{wb}	Black	Studențs
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				•	•	•			,
1	1434410		1	177 '	9648	0.19811	0,13822	0 20000	00000
2	1434410	-	ī.	177				.0.22988 •	20989
~ 3	1434410	,	_		8 4 3 4	0.19380	0.19687	0.24130	20891
			1	177	8161	0.20465	0.20685-	0.25802	. 21529
<u> </u>	1434410		1 ,	177	7461	0.23250	0.12862	0.26682	20205
5	1434410		1 • `	177	69.02	0.24195	0.10223	0.26950	19640
6	1434410		1 .	177 `	5988	0.23818	0.11373	0.26875	19215
	~ *					,	0,110,0	0.20073	, 17217
,143441	LÔ	6	•		•	•			
	Francisco	•	14	•	*			•	
, 5	· · · ·	•		•					•
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1	4302970	, 3	. 1	37	12276	0.11220	0.57219	0.26225	16690
1 2	4302970		ī	-					
3.			_	.37	- 12804	0.16008	0.38086	0.25855	17312
			, 1	37	12704	0.25921		0.26453	17340
4.	4302970		`, 1	37	12795	0.27228	0.02220	0.27847	17801
5	4302970		1 1	37	12626	0.28246	0.02325	0.28919	17843
6	4302970		1	37	12247	8, 29227	0.01424	0.29650	17491
		•	_	- ,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	27 774
430293	70	; A	•			•	` •		
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Ohe	rlotte-Mec	Kienbur	. 8					• •	•
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1	4011340		. 1	- 136	# nvn+ ·	0.31357	0.50074	A 4440E	471-7
2 م			_		4001		0.52936	0.66625	13627
	4011340		1	136	3481.	0.3,1347	0.53807	0.67861	13588
. 3	4011340	•	1	1,36	3040	0.33786	0.51502	0.69664	14168
4	4011340		1	136	28484	0.35393	0,49707	0.70374	15760
5	4011340	•	1	136	2673	0.31659	0.55856	0.71717	15377
6	4011340		: ī	136	2385	~0.33690	0.53663	0.72707	15004
					2007	, 0, 00 07 0	0.20,000	0.72707	15004
40113	4.0	6 .			•	• •		1	
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New	ark			•			•		
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	4504775			·					
1	4504375		1	40 -	11241	0.29579	, 0.24855	- 0.39363	18670
2	4504375		1	40 *	10771	.0.29784	0.28237	0.41504	18473
·3	4504375		1	40	9447	0.28426	0.34848	0.43631	16848
4	4504375		Ť	40	8131~	0.25187	0.41740	0.43232	14420
5	4504375	•	ī	40	9076	0.29013 .	0.37609	0.46501	
6	4504375		i ·	40	8934				17062
	4704075	•	•	7.0	0737	0.28475	0.40011	0.47467	17231
450437	.			4	•	•	. •	. ,	
450437	-	.6		<i>,</i>			•	7	* 5-4
C1nc	cinnati	1	- r			•	•		_
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1	5707710	-	1	182	20237	·0.05253~	0.37453	0.08398	23780
2	5707710		1	182	18250	0.05686	0.38486	0.09244	21733
, 3	5707710								
			1,	:182	16685	0.06002	0.46490	0.11216	20293
4	5707710	•	1 .	182 ,	17122	0.07251	0.36912	0.11493	21013
4 6	5707710		1	- 182	14920	0.08145	0:40671	0.13728	19216
	•	_	•				_	• =	
57077:	10 -	5			•	,	•		•
Sea	ittle						· 5.	•	
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1	5338730	A.	1	174	5847	0.09208	0.24108	6 4 24 7 4	
-2-	5338730		ī,,	174				0.12134	18626
``3	5338730		- ,		57.42	0.14990	-0.00709	0,14383	17931
4		,	1 .	174 =	5507	0.18314	-0.03440	0.15404	17956
v =	5338730		1	174	4933 ^	0.19518	-0.04303	0.15900	17554
۶ · 5	5338730.	`. .	1	174	4818	0.19380 +	-0.03311	0.16619	17227
€	5338730		1	174	4083	0.21860	-0,04692	. 0,18013	16333
•							• • • • • • • • • • • • • • • • • • • •	/20.75	10030
533873	0 - ` `	6	•	*	•		•		• .
	Antonio			<i>\$</i> ∼<	•			, *	
उद्या	TILCOTTO	•		•	-		,		3
	*			~					+
1	4,630240	•	1	205	23924	0.03833	0 41400	0.00070	44-44
	4630240		i	205		0.03990 ~	,0.61409	0.09932 *	16140
3		•			14172		0.62608	0.10669	16505
4	4630240		1	205	13866	0.04495	0,61290	· 9.11611 .	15596
	4630240		1 💉	205	13991	0.05892 .	0.52218.	0.12330	16715
5 `	4630240		1	205 🏎	13258	0.06600	0.51570	0.13628	16121
6 (4630240		1 .	205	12462	0.10027	0,29943	0.14312	15288
	•		_		,		2,-,,,,	_	77600
463024	0	6			.48		_	* .	
	-	_	•		·€,		7		



Tulsa

1	•					*			~
Year`	School District Number	· .	Metro. Status	SMSA	Number Whites	S _{wb}	R _{wb}	Prop. 'Black	Number Students
1 2 3 4 5 6	4819170 4819170 4819170 4819170 4819170 4819170	٠,	1 1 1 1 1	152 152 152 152 152 152 152	16006 15746 15344 14902 15045 15277	0.15703 0.16674 0.17939 0.19436 0.20655 0.20671	0.52964 0.49880 0.48484 0.46130 0.43288 0.41988	0.33384 0.33269 0.34823 0.36079 0,36421 0.35633	24173 23659 23614 23429 23797 23846
481917	7 N	6		٠.					
	tsburgh	•	•			•	• •		
- 1 2 3 4 5	4710050 4710050 4710050 4710050 4710050 4710050		1 1 1 1 1 1 1	155 155 155 155 155 155	22653 22496 21748 20097 19298 18116	0.05942 0.06171 0.07039 0.07460 0.07923 0.08644	0.15016 0.14363 0.13712 0.14649 0.15048 0.15747	0.06992 0.07206 0.08158 0.08740 0.09326 0.10260	250 00. 249 92 244 19 22735 22046 20926
47100 S	tland	6			,				
1 2 3 4 5 6	2800540 2800540 2800540 2800540 2800540 2800540		; ; ; ; ; ;	19 19 19 19 19	11676 12696 11828 11872 11701 11046	0.02201 0.02933 0.14404 0.14911 0.14673 0.14895	0.93625 0.91226 0.59898 0.58846 0.59633 0.60438	0.34526 0.33426 0.35918 0.36234 0.36349 0.37651	17888 19117 18517 18698 18534 17949
280054	iÖ 4	6			•	`.	* *	. (*	
E.	Baton Rouge			* 45	•	,		- K	<i>:</i>
1 2 3 4 5 6	1002370 1002370 1002370 1002370 1002370 1002370		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	124 124 124 124 124 124	17387 16235 14977 14073 14826 14430	0.03736 0.12237 0.19467 0.27393 0.25906 0.26908	0.90292 0.68726 0.45625 0.33280 0.34453 0.35356	0.38484 0.39129 0.35801 0.41057 0.39523 0.41625	28264 26671 23357 23935 24558 24740
1 0 0 2 3 ; Mol	70 oile	6		• , •	• ,	•	***	' >	
1 2 3 4 5 6	1428050 1428050 1428050 1428050 1428050 1428050		1 1 1 1 1	177 , 177 , 177 , 177 , 177 ,	4045 3521 3357 3328 2855 2498	0.29042 0.30942 0.31176 0.33029 0.34200 0.34568	0.44498 0.43621 0.44686 0.40517 0.42914 0.43721	0.52326 0.54881 0.56362 0.55527 0.59910 0.61423	12573 11975 12008 12457 12008 11556
1 4280		6	-	• • •	· r ,	•		•	
Oal	cland	•	•	•	•	•		•	•
1 2 3 4 5	3516400 3516400 3516400 3516400 3516400 3516400		1 1 1 1 1	93 93 93 93 93	10603 9861 9160 8860 8325 7361	0.15297 0.14407 0.13481 0.11994 0.12745 0.11401	0.64240 0.68766 0.72372 0.77172 0.76600 0.79770	0.42776 0.46127 0.48795 0.52539 0.54468 0.56358	18529 18304 17889 18668 18284 18567
35164 Ka	00 nsás Citý M	6	e '	• • •	• •	,	•		
1 2 3 4 5 6	4205850 4205850 4205850 4205850 4205850 4205850	•	1 1 1 1 1	31 31, 31 31 31 31 31	13016 12826 12319 11278 11043	0.17422 0.18621 0.20324 0.23440 0.24528 0.24303	0.37639 0.36833 0.33935 0.28410 0.28522 0.32000	0.27936 0.29479 0.30764 0.32742 0.34316 0.35739	18943 18956 19019 18878 18015 18025
4 2058 Bu	50 ffalo	16	.*		128		•	•	<i>t</i> ,
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	School	•	7		-						, No b
	District		Metro.	•	CUCA	Number	c	D		Prop. Black	Number Students
Year	Number		Status		SHSA	Whites	Swb	. R	Ъ	DIECK	ocaaciic.
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1	1422500		1		110	1533'4	0.0315			0.041,88	16952
2	1422500		1.		110	15088	0.0342			0.04716	16816
, 3	1422500		1		110	14305	0.0369			0.05226	16227
` 4	1422500		1		110	13835	0.0443		083	0.06836	16178
5	1422500		1	•	110	12916	0.0562	3 0,26		0.07674	15324
6	, 1422500		1		110	12365	0.0650	4 0.23	5104	0.08458	15087
142250	, n	6					•			~	
	ig Beach	0	•				•			, .	
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	*3774820	*			447	11772	0 0001	8 0.34	050	0.13677	13907
1 2			• 1 •		143 143	10414	0.0901			0.15975	12707
3	3774820 3774820		1		143	10722	0.0937			0.16344	13106
4	3774820		i.		143	11042	0.0991			0.16785	13631
5	3774820		ī		143	11017	0.1057			0.176,02	13777
6	3774820		ī		143	10616	0,1147	9, 0,36	730	0.18143	13388
			,								
377482	20	6,			٠. ٠						
Ona	tha 🔯 🗎					· •					
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1	1208760		1		204	11623	0.0218		5033	0.03978	16288 17292
5	1208760		1		204	12402	0.0215	99 . 0, 44	6064	. 0.03996	1/292
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12087		2			. 5					1	
Tu	cson							•		(
			x .		•	•			-	7	
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			• ,			0004	0.0217	מת כל	3964	0.02266	18796
1	5318300		1		57 57	8221 7803	0.0217			0.02351	18462
· 2	5318300			•	57,	7762	0.0236			0.02083	18432
4	5318300 5318300		1		57	7924	0.0275			0.02323	18899
5	5318300	-	ī		57	7769	0.0310			0.02446	19172
. 6	5318300		ī		57	7949				0.02623	20051
r	•		_	•		•	,				
53183	00	6	,				•		-	•	•
. E1	Paso		• .							,	
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1	4504490		1		201	13363	0.1029		1871	0.21395	17457
/ 2	4504490		, 1		201	12173	0.1126		3216	0.24070 0.22092_	16531 18491
. 3	4504490		1		201 201	13925. 14197	0.1112 0.1208		9664 0601	0.24456	19496
- 5	4504490 4504490		1		201	14300	0.1283		5555	0.23576	19431
6					201		0.1295		7804	0.24827	19640
-	4504490		1		201	14214	0.127-	,, 0,,) 00 tg	0,2402,	27040
45044	90	6		• ′	٠.		,	*	*	,	
	ledo					•	*			• •	
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7 .			,								*
1 1	3321240	•	1		123	17254	0.0461	07 0.1	1375	0.05199	18562
2	3321240		1		123 .	15435	0.6493		4344	0.05758	16794
3 4	3321240		1		123	15190	0.058		3404 4731	0.06742 0.07160	16716 16537
5	3321240 3321240		1 1		123 123	14910 - 14133	0.072	40 0 1	5449	0.08573	16062
6	3321240	-	i		153,	13421	•		6042	0.09754	15542
•		•	, •				3,302,				
33212	4 D	6									•
	nneapolis		/	•		•	•				
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1	4622770	``	1	•	142	13980	0.058		9494		17268
2	4622770	,	ī		142	13329	0.098	60 0.5	5531	0.22172	17748
. 3	4622770	,	1		142	12123	0.079	20 0.6	3493	0.21694	. 16198
, 4	4622770		1		142.	11809	0.090	19 . 0.6	1,899	0.23673	16196
5	4622770	•	1		142	12,578	0.215		7699	0.26177	1760¥
6	4622770		. 1 ,	•	142	11819	0.237	e/ U,U	9947	0.26348	16616 ,
`44007	***	٠,		•				,	•	×	•

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, School District Year Number	Het: Star		Number Whites	Swb	R _{wb}	Prop. Black	Number Students
1 1000390 2 1000390 3 1000390 4 1000390 5 1000390 6 1000399	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24 24 24 24	10011 9999 9088 8638 7847 7150	0.09217 0.10112 0.24025 0.25887 0.26091 0.26740	0.80661 0.79441 0.54066 0.52614 0.54842-	0.47660 0.49184 0.52304 0.54631 0.57778	19127 19677 19054 19068 18630 17907
1000390 Birmingh a m	6	•	· ·	,	,		
1 2612990 2 2612990 3 2612990 4 2612990 5 2612990 6 2612990	1 1 1 1 1	216 216 216 216	12175 12518 12062 11817 11258 10792	0.08802 0.10365 0.11650 0.11613 0.12686 0.14651	0.12272 0.04919 0.01783 0.00443 0.00105 0.00308	0.10033 0.10901 0.11862 0.11664 0.12699 0.14697	13824 14393 14062 13760 13324 13071
261 2990 Wichita	6	•		•			•
1 5002310 2 5002310 3 5002310 4 5002310 5 5002310 6 5002310	1 1 1 1 1	78 78 78 78	12908 \ 11917 12647 13906 13620 13294	0.04290 0.04908 0.18924 0.20044 0.19683 0.20262	0.83097 0.76231 0.03367 0.01584 0.01311 0.01495	0.25379 0.20649 0.19583 0.20367 0.19945 0.20570	17298 15018 15743 17504 17062 16816
5002310 Greenville	6 .	•	\	*	Ŀ	· ·	
1 5308940 2 5308940 3 5308940 4 5308940 5 5308940 6 5308940) 1 1 1 1 1	16	9623 9861 10371 10842 10700 11975	0.04354 0.04150 0.04759 0.09618 0.09854 0.10849	0.65721 0.69510 0.66720 0.23744 0.20785 0.14984	0.12701 0.13611 0.14301 0.12612 0.12440 0.12762	13282 13812 14684 15025 15185 17859
5308940° Austin	6	•	•	•	••	•	
1 1414550 2 1414550 3 1414550 4 1414550 5 1414550 6 1414550	. 1 1 -, 1 1 1	70 70 70 70	9316 9162 9251 8873 8637 8300	0.02347 0.02687 0.03620 0.04135 0.04449	0,74316 0,65716 0,56773 0,50400 0,48132 0,46774	0.09138 0.07836 0.08373 0.08337 0.08578 0.08524	12465 11932 12241 11983 11809 11464
1414550 Fresno	,6 · <u>-</u>	• •	•	· • ·	•	·•	•
1 4504348 2 4504348 3 4504348 4 4504348 5 4504348 6 4504348	~ 1 1 1 1 1	2 2	9481 9033 8984 9104 9519 9145	0.14783 0.14504 0.15410 0.15613 0.16158 0.16148	0,33720 0,37763 0,35929 0,38608 0,38181 -	0.22303 0.23304 0.24052 0.25432 0.26137 0.26414	12218 11805 11862 12260 12924 12467
4504348 Akron	6		٠.	•			• • •
1 2800300 2 2800300 3 2800300 4 2800300 5 2800300, 6 2800300	1	183	. 8494 8418 7985 8114 8226 8009	0.01818 0.04902 0.26472 0.28870 0.29567 0.33374	0.96831 0.91283 0.44789 0.37853 0.37949 0.28060	0.57359 0.56237 0.47947 0.46454 0.47649 0.46392	20049 19391 15444 15342 15866, 15065
2800300 Shreveport	6	•		- 130	, , , , , , , , , , , , , , , , , , ,	** .	•

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+ .	School .			,		•		•		
	District	Me	tro.			Number		,	Prop.	Number
Year	Number		atus		SHSA	White	S _{wb}	· R _{wb}	Black	Students
104-1							WD #	WD		
,	•					• •	•	•		*
1	4504384		1	0	49	10788	0.07097	0.79243	0:34192	16457
ž	4504384		ī		`49	10554		0.72630	0.34397	16164
3	4504384		ī		49	10071	0.12160	0.66900	0.36739	16024
4	4504384	. •	i	•	49 .	10039	0.14374	0.62337		16363
5					49	9500	0.17328	0.56839		- 16051 .
,5 6	4504384		1:		49	. 1 598	0.23049	0.46124	0.42781	15112
	4504384	•	-	•	77	. 6570	0.52043	0.40124	0145101	17112
45 0 4 3 8	4	6						•		4
•		J	-							
Day	rton	-			•	• •	•		•	•
	•		•							•
		•			_			·	0.00474	43050
1	1414880		.1		9	12707	0.00128	0.06230	0.00136	13950
, 3	1414880		1			13455	0.00119	0.05952	0.00126	15049
. 4	1414880		1		9	12913	0.00233	0.08067	0.00253	14617
5	1414880		1		9	12935	0,00303	0.08793	0.00332	14739
6ء	1414880		1		. 9	12777	0.00400	0.08245	०.00436	14,667
_		_					_	٠.	` \;	·
141488		5					•	• • • •	`	
Gar	den Grove					•				**
	4 1	-						•		
1-	2703600		1.	•••	111	6766	0.19428	0.51660	0.40189	11319
ž	2703600		ī		111		0.16451	0,58698	. 0.39832	11310
3	2703600		i	•	111	6464	0.18681	0.57773	0,44239	- 11612
. 4	2703600		1		111	6334	0.18175	0.61940	0.47754	12133
. 5	2703600		ī	•	111	5792	0.19318	0.61901	0.50706	11754
6	2703600		i	,	111		. 0,21514	0.59969	0,53743	12024
	2703000		-	•		,,,,	. 0,01	.,	-	
. 270360	` ` `	6					i	•	•	
	isville	٠,٠					1 😅		,	,
100	118ATTTE					• •		• •	` `	, ,
									0.44700	
1	1433840		1.		167	7466				11003
2	1433840		1		· 167	7314	.0.12036			11029
3	:1438840		. 1		167	7100	0.13188			10953
4	1433840	•	1	•	167,	6608	0.14410			10457
5	1433840		1		167	6651	0.15985		0.17039	10828
6	1433840		, 1		167	6858	0.18219	0.0414	0.19006	11575
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1	5602670	•	1		,138	6978	0:13261	0.61964	0.34865	10879
5			ī		138	7366	0.17799			11862
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3			1		138	6291	0.41674		5 * · · -	11183
5	5602670		1		138	6080	0.43718			11059
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2	3333840		1		123	11571	0.04362			12742
3	3333840		1		•123	14189	0.05067			15835
4	3333840		1		123	11699	0.04287			1,2983
5	3333840		1		123	11354	` 0.04586			12702
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1 5315270 2 5315270 3 5315270 4 5315270 5 5315270 6 5315270	1 1 1 1	46 46 46 46 46 46	5389 5571 5333 5224 5008 4834	0.01307 0:01304 0.01529 0.01889 0.02581 0.02813	0.70745 0.72026 0.71396 0.63986 0.50447 0.48954	0.04467 0.04663 0.05345 0.05244 0.05209 0.05510	9671 9906 10085 10069 10136 10108
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1 2403870 2 2403870 3 2403870 4 2403870 5 2403870 6 2403870	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	73 73 73 -73 -73 73 73	5372 5134 4 4930 3563 3319 2765	0.13575 0.16773 0.15330 0.17332 0.15828 0.18670	0,75886 0,67274 0,70579 0,71809 0,75799		15,723, 13,771 13,657 12664 12709 12527
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1 5603240 2 5603240 3 5603240 4 5603240 5 5603240 6 5603240	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	163 163 163 163 163 163	3755 3493 4129 3347 3379 2786	0.17791 0.19702 0.45676 0.61026 0.62563 0.65266	0.70387 0.69010 0.26455 0.10283 0.08199 0.08830	0.60081 0.63576 0.62105 0.68021 # 0.68150 0.71587	9434' -9664 10991 40682 10810 9918
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1 2403630 2 2403630 3 2403630 4 2403630 5 2403630 6 2403630	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	68 68 68 68 68	7277 7677 7660 8094 7690 7609	0.06249 0.06462 0.07317 0.11938 0.13081 0.14313	0.35595 0.35587 0.36314 0.00212 0.00563 0.00640	0.09703 0.10032 0.11489 0.11964 0.13155 0.14406	8142 8622 8730 9303 9061 9059
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1 2508970 2 2508970 3 2508970 4 2508970 5 2508970 6 2508970	1, 1, 1, 1, 1, 1, 1,	52 52 52 52 52 52	8608 8421 8449 8677 7463 7362	0.06110 0.05941 0.06352 0.06203 0.04964 0.05172	0.05448 0.07675 0.08587 0.08158 0.12001 0.12286	0.05462 0.06435 0.06949 0.06754 0.05641 0.05896	9301 9091 9153 9402 7995 7920
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1 2334510 2 2334510 3 2334510 4 2334510 5 2334510 6 2334510	1 1 1 1	166 166 166 166 166 166	8366 10302 10436 10537 10358 10149	0.05609 0.06477 0.09143 0.09002 0.09754 0.10729	0.06947 0.10706 0.07302 0.07913 0.09647 0.07590	0.06028 0.07254 0.09863 0.09776 0.10792 0.11610	8975°(11167 11710 11835 11805 11671
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1 4007830 2 4007830 3 4007830 4 4007830 5 4007830 6 4007830	•	1 1 1 1 1 1 1 1	90 90 90 90 90 90	5579 5185 4744 4720 4201 3689	0.22874 0.23057 0.25163 0.26566 0.27283 0.26195	0.23965 0.28005 0.29319	0.30084 0.32026 -0.35600 0.37316 0.39612 0.42644	8975 8899 8910 9532 9121 8904
4007830 / .	, 6 .	. '		•	¥	٠,٠	·* · · · · · · · · · · · · · · · · · ·	·
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1 1402640 3 1402640 4 1402640 5 1402640 6 1402640		± 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	9999	14211 15582 15731 16318	0,00091 0,00147 0,00197	0.02739 0.01461 -0.00000 0.00156 -0.00001	0.00032 0.00092 0.00147 0.00197 0.00211	15430 17343 17661 18251 14681
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1434590 2 1434590 3 1434590 4 1434590 5 1434590 6 1434590	77	1 1 1 1 1	178 178 178 178 178 178	4918 5093 5222 5777 5831 5848	0.00774 0.00847 0.01101 0.01121	0.37191 0.43632 0.45567 0.36931 0.27387 0.23737	0.01340 0.01374 0.01557 0.01746 0.01544 0.01465	6938- 7134 7323 8419 8615 8462
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1 1002430 2 1002430 3 1002430 4 1002430 5 1002430 6 1002430	-	2 1 1 1 1 1	.126 126 126 126, 126 126,	。 4831	0.10282 0.26929 0.28096 0.29187	0.90224 0.77330 0.26060 0.30071 0.29305 0.28794	0.48223 0.45355 0.36420 0.40178 0.41286 0.41886	9794 9538 7515 8094 8228 8220
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1 5346680 2 5346680 3 5346680 4 5346680 5 5346680 6 5346680		1 1 1 1 1 1	57 57 57 57 57 57	3639 3827 3879 3890 4089	0,02300 00.02458 0.02829 0.03358	0.25222 0.18359 0.06553 -0.00144	0.02640 0.03075 0.03011 0.03027 0.03218 0.03002	7690 7804 8802 9415 10161 10925
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1 1503080 2 1503060 3 1503060 4 1503060 5 1503060 6 1503060	• ,••	1 1 1 1 1	42 42 42 42 42 42 42	5932 6319 6809	0.03765 0.04761 0.05287	0.10002 0.12485 0.02891 0.01542 0.00578 0.00045	0.04075 0.04302 0.04903 0.05370 0.05904 0.05819	5816 6299, 6792 7225 7842 7057
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