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I am submitting herewith a thesis written by Kyle Thomas Rector entitled "Shaw v. Reno and North Carolina's Twelfth Congressional District: Testing the Constitutionality of a Majority-minority District." I have examined the final copy of this thesis for form and content and recommend that it be accepted in partial fulfillment of the requirements for the degree Master of Science, with a major in Geography.

Charles Aiken, Major Professor

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Accepting for the Council:

Associate Vice Chancellor and
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Shaw v. Reno and North Carolina's Twelfth Congressional District:

Testing the Constitutionality of a Majority-minority District

A Thesis Presented for the
Master of Science Degree
The University of Tennessee, Knoxville

Kyle Thomas Rector
December 1995

This thesis is dedicated to my parents

General Lloyd Kenyon Rector
and Mrs. Caroleen Day Rector

ACKNOWLEDGMENTS

There are many people to whom I am grateful for making the production of this thesis so rewarding. To begin, the faculty of the Department of Geography have proven most helpful in furthering my academic progress over the last several years. In particular, I would like to thank my Thesis Committee, Thomas Bell, Ronald Foresta, and especially my chair, Charles Aiken for their support and encouragement. They have read several revisions of the thesis and the merit of this work is due in no small part to their suggestions. I also wish to thank Allen Finchum for his friendship and help in statistical matters.

The greatest debt, however, is owed to Jeanne Stevens and my parents, General and Mrs. Lloyd Rector. Ms. Stevens' help in the final revisions of this document and her support and encouragement throughout have been invaluable. Finally, I wish to thank my parents, who have provided almost limitless opportunities to me. Without their support this moment would not be possible.

ABSTRACT

During the early 1990s, the United States Department of Justice under provisions of the Voting Rights Act directed several states across the country, primarily in the South, to create majority-minority Congressional districts. A majority-minority electoral district is one in which a minority group (African Americans, Hispanics, Native Americans) constitutes a majority of the population. Most of the federally mandated districts contain African American majorities.

North Carolina's Twelfth was one of the newly created majority-minority districts. Shortly after its creation, a group of white citizens filed a complaint in federal district court claiming that the Twelfth District was excessively gerrymandered and should be declared unconstitutional. This case, Shaw v. Reno, eventually was appealed to the United States Supreme Court. The Court's decision, released in the summer of 1993, did not declare the Twelfth District to be illegal. Instead, it created new rules regarding what is legal in redistricting and remanded the case to federal district court for further proceedings in light of the decision in Shaw.

This thesis argues that North Carolina's Twelfth Congressional District is legal in the aftermath of Shaw v. Reno. To prove the legality, the project is divided into three parts. First, the origins of the demand for majority-minority districts and the subsequent backlash that culminated in Shaw v. Reno are explained. Next, a methodology for testing the constitutionality of a Congressional district is developed from pertinent legal holdings and academic literature. Finally the methodology is applied to the Twelfth District. The analysis compares North Carolina's Twelfth with four groups of Congressional districts. The study reveals that while the Twelfth has faults, they are neither more common or intense than those of other districts.

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Chapter 1

Shaw v. Reno and North Carolina's Twelfth Congressional District: An Introduction

On June 28, 1993, the United States Supreme Court decided Shaw v. Reno. Speaking for the majority, Justice O'Connor wrote,

> A reapportionment plan that includes in one district individuals who belong to the same race, but who are otherwise widely separated by geographical and political boundaries, and who may have little in common with one another but the color of their skin, bears an uncomfortable resemblance to political apartheid. It reinforces the perception that members of the same racial group -- regardless of their age, education, economic status, or the community in which they live -- think alike, share the same political interests, and will prefer the same candidates at the polls. We have rejected such perceptions elsewhere as impermissible racial stereotypes (Shaw v. Reno 1993).

Shaw, a case brought by five white voters in Durham County, North Carolina, alleged that the Twelfth Congressional District of North Carolina was excessively

gerrymandered and caused reverse discrimination. The Twelfth is a majority-minority district, meaning that the population is dominated by a racial or ethnic minority. In the Twelfth, the majority is African American. This district was called for by the United States Department of Justice during redistricting after the 1990 census under provisions of the Voting Rights Act. The Twelfth, like similar districts throughout the South, was to aid in alleviating past discrimination against minorities and enable them to elect candidates of their own choosing. The Court's decision in Shaw, while not declaring the Twelfth to be unConstitutional, established a new requirement for redistricting plans. Majority-minority districts must have unifying factors other than race. The decision remanded the case back to district court to determine its standing regarding this new requirement. If the Twelfth does not have unifying factors other than race, it could raise serious questions regarding the Constitutionality of other majority-minority districts.

This thesis compares the Twelfth with other United States Congressional Districts to answer from a geographic perspective the essence of the legal questions raised in Shaw. Is the Twelfth Constitutional?

An Overview of the Voting Rights Act

The allegations in Shaw questioned actions taken by the State of North Carolina under provisions of the Voting Rights Act. The act's primary purpose is to aid in dismantling discriminatory political practices. African Americans have been the primary beneficiaries of the Voting Rights Act, though other racial and ethnic minorities have also been helped. Initially, the Voting Rights Act focused on improving registration and ballot casting. Subsequently the act has been used to attack racially discriminatory gerrymandering of electoral districts and other forms of vote dilution (Davidson 1992). The Voting Rights Act enacted by Congress in 1965 was part of a larger civil rights agenda. The Civil Rights Movement sought to eliminate the long history of discrimination against African Americans.

Often thought of and reported as a single event, the Civil Rights Movement actually involved numerous factions, each seeking a different set of goals. The aims of the Civil Rights Movement can be divided into three broad categories. The first was the elimination of segregation in schools, public facilities, and other institutions. The second was to increase economic opportunities for minorities. The third goal, of which

the Voting Rights Act was a part, was the elimination of discrimination in the political system.

Until the mid-1960s, civil rights legislation was largely ineffective because it attempted to address all of the movement's goals simultaneously. Examples include the 1957 and 1960 Civil Rights Acts. However, with the passage of the 1964 Civil Rights Act and the Voting Rights Act a year later, legislation began to improve civil rights by focusing on one goal at a time. The 1964 Civil Rights Act primarily focused on ending segregation and improving employment opportunities for minorities, while the Voting Rights Act aimed to reduce electoral discrimination.

An Overview of North Carolina

North Carolina, the state from which Shaw v. Reno arose, is divided into three broad physiographic regions. From east to west they are the Atlantic Coastal Plain, the Piedmont, and the Blue Ridge (Figure 1-1). The Coastal Plain is a relatively flat, sandy-soil region whose geologic formations are composed of sedimentary rock. Agriculture, historically focused on flue-cured tobacco, is an important revenue source for the region. Turkey, hog, peanut, vegetable, and cotton production

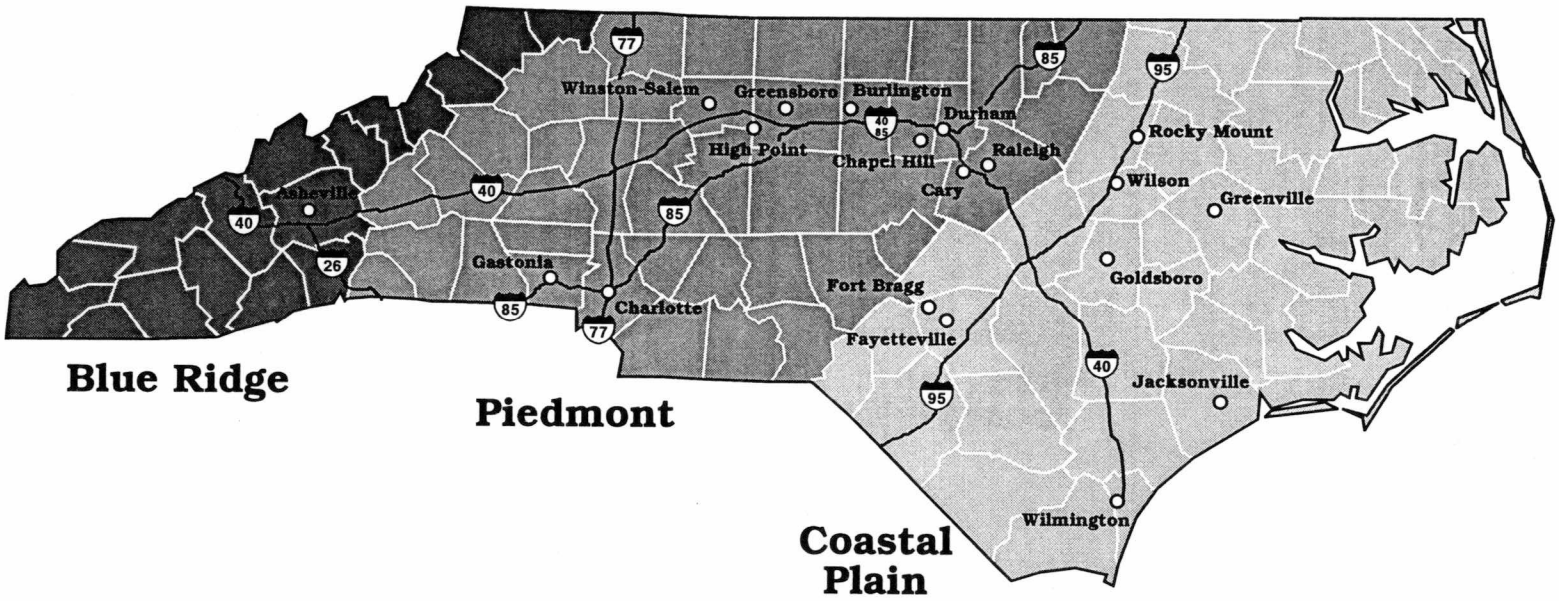

Figure 1-1: Landforms of North Carolina.

supplement tobacco receipts. Small cities are scattered across the Coastal Plain, with Wilmington, Jacksonville and Fayetteville being the largest. In recent years, manufacturing has become the important growth sector for employment.

The Piedmont has a rolling landscape. Geologically, the bedrock is primarily igneous and the soil is clay. Agriculture, once important, has declined throughout the twentieth century. Historically, the Piedmont has been the most important area of manufacturing in the state. Originally focused on textiles, tobacco products and furniture, in recent decades substantial diversification has occurred. Today the region includes such high order functions as finance in Charlotte and Winston-Salem, and research and development (R&D) in the Raleigh/Durham metropolitan area.

The mountainous Blue Ridge is a land of scenic beauty, but it has relatively poor agricultural potential. Geologically, igneous and metamorphic rocks are common throughout the region. Until recently, large sections of the Blue Ridge were isolated from external impact. The primary commercial crops are burley tobacco and Christmas trees. Tourism, emphasizing the scenic beauty of the region, is gaining importance as an

economic generator. Industrial development has primarily focused on furniture and wood products, although as in the Piedmont, diversification is occurring. The region's largest city is Asheville; the other municipalities are towns and small cities.

In 1990 North Carolina had a population of 6,628,637 (US Census 1990). In recent years the state has experienced rapid economic and population growth and is included in what is termed "the Sunbelt." The largest concentration of population is on the Piedmont in a string of cities along Interstate Highways 85 and 40 from Charlotte on the southwest to Raleigh in the northeast (Figure 1-1). These large cities are also the location for the largest concentrations of blacks in the state, although the counties with the highest percentages of black population are located on the northern Coastal Plain.

North Carolina's Twelfth Congressional District

North Carolina is divided into 12 Congressional Districts (Figure 1-2). The state's voting age population is approximately 78% white, 20% black, and 1% Native American; the remaining 1% is predominantly Asian (Shaw v. Reno 1993). Of the state's twelve Congressional

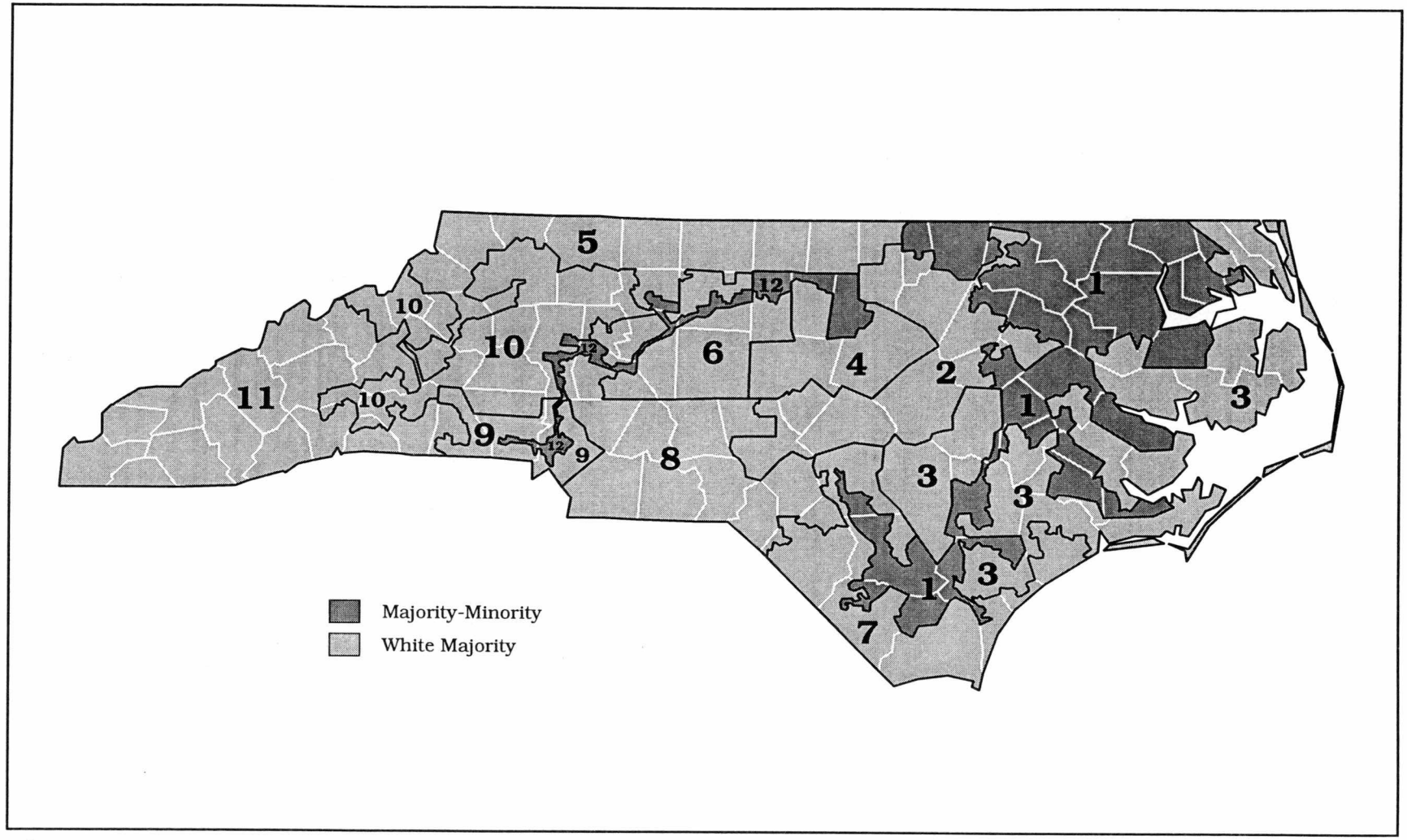

Figure 1-2: North Carolina's Majority-minority Congressional Districts, 1992. Source: North Carolina Legislature.

Districts, two are majority black, the First and the Twelfth. The First extends from north to south across the Coastal Plain. The majority of the district's population is in the northern Coastal Plain counties with majority black populations. The Twelfth meanders across the Piedmont, from Charlotte in the southwest to Durham in the northeast (Figure 1-3). The district includes inner-city neighborhoods from the State's largest cities as well as rural connecting stretches. The Twelfth is indeed oddly shaped. H. M. "Mickey" Micheaux, a 1992 candidate for the Twelfth, said, "I love the district. It's so narrow I can drive down I-85 with my car doors open and hit every voter in the district" (Smothers 1992:28).

Unlike most southern states, North Carolina has a long history of dual party politics (Black and Black 1987). Democrats have historically won most statewide elections, as well as those on the Coastal Plain and eastern Piedmont. Republicans have fared well in local and sub-state elections in the mountainous west and on portions of the western Piedmont. A map of Republican registration by county shows the voting strength of the Republican party in western portions of the state (Figure 1-4). However, in recent decades the North Carolina vote

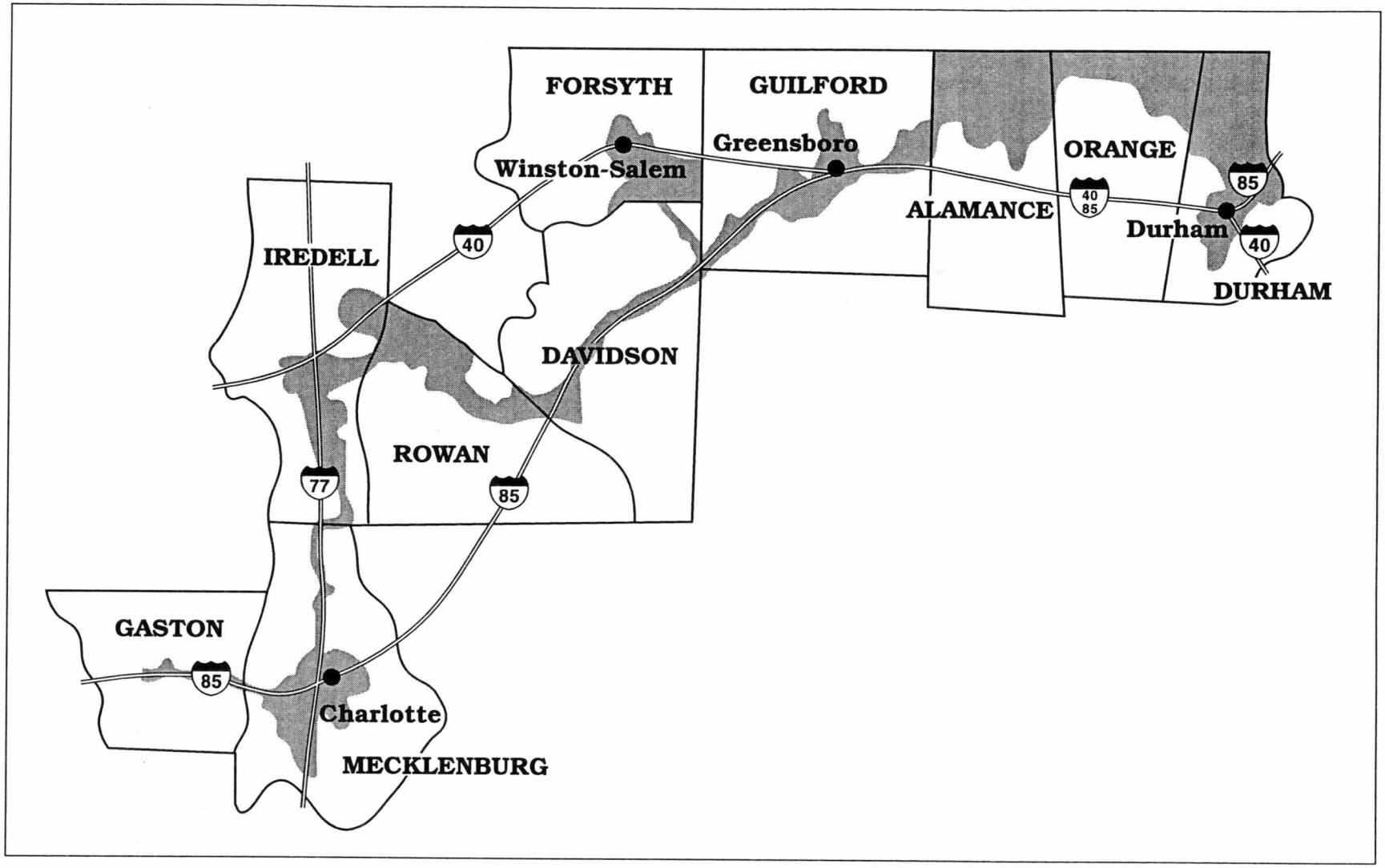

Figure 1-3: North Carolina's 12th Congressional District, 1992.
Source: North Carolina Legislature.

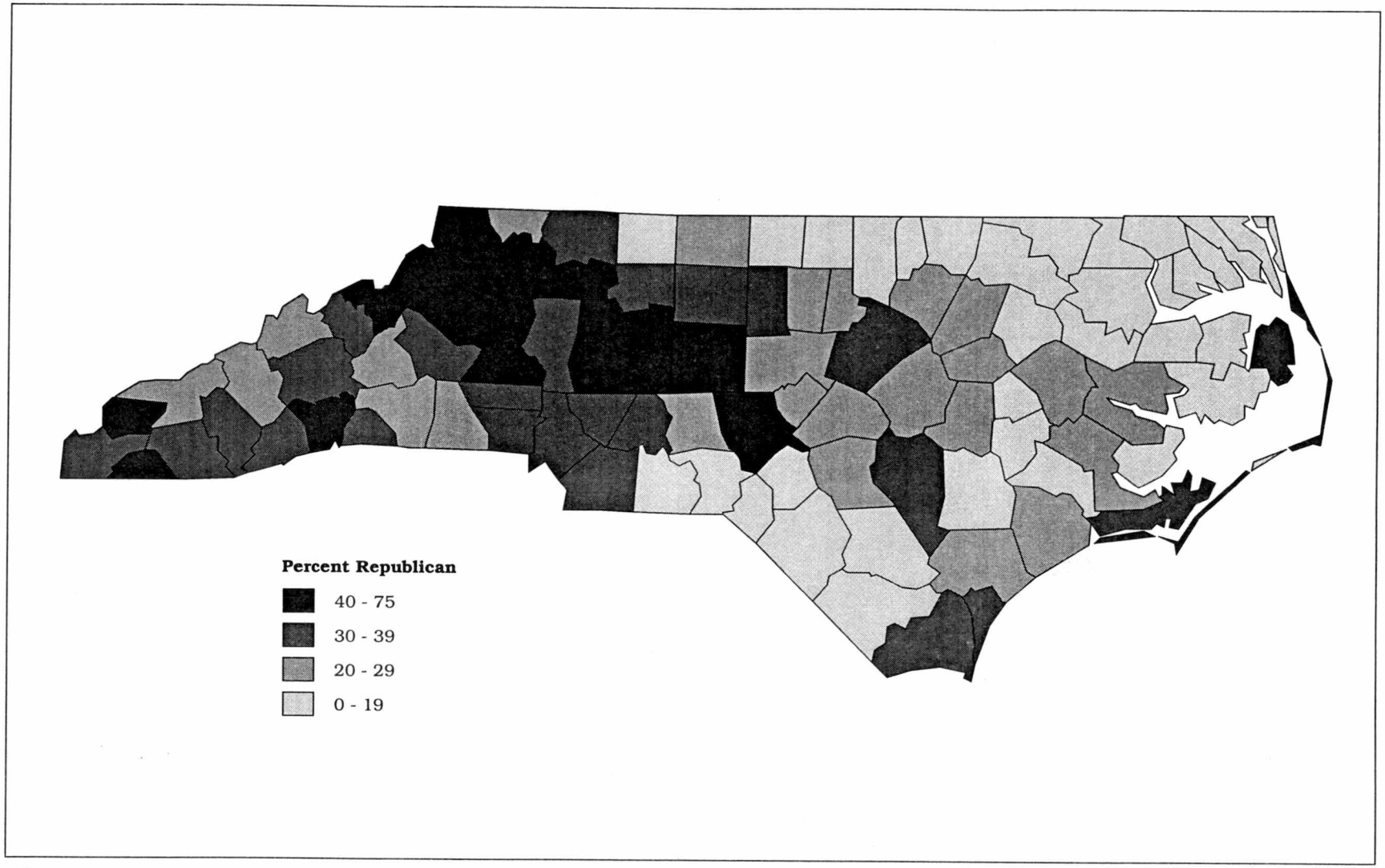

Figure 1-4: Percent of Registered Voting-age Population Republican, 1992. Source: North Carolina Legislature.

has become increasingly Republican, as it has across much of the South (Black and Black 1987). Of the two black-majority districts, the First is located in a section of the state that overwhelmingly supports Democratic candidates, while the Twelfth is in what is increasingly becoming Republican territory. Blacks on the Piedmont, however, still vote primarily for Democrats, and the Twelfth's Congressman, Melvin Watts, is a Democrat.

Thesis Argument and Structure

Is North Carolina's Twelfth District legal according to federally mandated redistricting requirements? This thesis argues that it is. Since the Twelfth is currently facing litigation stemming from the issue raised in Shaw, emphasis is given to demonstrating that the Twelfth District does have unifying factors other than race. Other federal requirements for redistricting are also discussed and considered.

This study is not concerned with the normative issue of whether majority-minority districts should exist. Rather, it provides a geographic methodology for determining the Constitutionality of such districts. This study is divided into two sections. The first provides context, explaining the origins of the demand

for majority-minority districts and the subsequent backlash which culminated in Shaw. Chapter 2 is a historical geography of African American electoral struggles at the national level. In Chapter 3, the scope is narrowed to the issues surrounding the creation of North Carolina's Twelfth District.

In the second section, Chapters 4 and 5, a methodology is developed and used to test the Twelfth's Constitutionality by comparing it with other Congressional Districts. Previous studies, notably by Morrill (1981) and Butler and Cain (1992), have established criteria for evaluating the merits of one redistricting plan over another. However, work with these criteria has focused on redistricting plans rather than specific districts. The legal question of the Twelfth's Constitutionality cannot be decided in such a way. Rather, it requires that a district be evaluated relative to other districts to gauge the extent to which it may be gerrymandered. Statistical comparisons of the Twelfth with other groups of districts are used to demonstrate that the Twelfth is not excessively gerrymandered.

Chapter 2

From Smith v. Allwright to Shaw v. Reno: The Rise of Federally Mandated Majority-minority Districts

Shaw v. Reno, a case initiated by five white voters from Durham County, North Carolina, alleged that North Carolina's Twelfth Congressional District was excessively gerrymandered and resulted in reverse discrimination. At a more basic level, this case was an assault on the federal directive to create majority-minority districts. An important question is how did the federal Department of Justice arrive at the position where it mandated the creation of these minority districts? This chapter answers that question by constructing the history of the African American voting rights movement.

From 1619 to 1900

In 1619 at Jamestown, Virginia, the first twenty Africans arrived on the North American mainland. While the initial Africans were indentured servants, within a few years practically all arrived as slaves, most of whom were bound for work on plantations in the South. Plantation owners found slavery a profitable and easy way to procure and manage labor. By the time of the American Revolution, the majority of blacks in the colonies were slaves with no personal or political rights. The formation of the United States brought little improvement in their status. At the Constitutional Convention in Philadelphia in 1787, abolitionists hoped to ban slavery. These hopes were quickly dashed, but Congress did enact an abolitionist-sponsored resolution banning the importation of new slaves into the United States as of 1819. At the time of the first United States decennial census in 1790, the black population was 757,000, or about 19 percent of the American population.

It was not until the Civil War and the subsequent Reconstruction period that the first serious progress was made in improving rights for blacks. In 1862, President Lincoln signed the Emancipation Proclamation.

Effective January 1, 1863, it abolished slavery "in the areas of the United States in rebellion" (Emancipation Proclamation 1863). Following the Civil War, three new Amendments were added to the Constitution. The Thirteenth, ratified in 1865, permanently outlawed slavery in all parts of the nation. The Fourteenth, in 1868, granted citizenship to all persons "born or naturalized in the United States." In 1870, the Fifteenth guaranteed that "the right of citizens of the United States to vote shall not be denied or abridged by the United States or by any state on account of race, color, or previous condition of servitude." Also in the Fifteenth Amendment, and of vital importance to later civil rights legislation including the Voting Rights Act, was the provision that "the Congress shall have the power to enforce this Article by appropriate legislation" (15th Amendment U.S. Constitution 1870).

With the three amendments, African Americans finally had freedom, and black males had the right to vote. Initially, blacks had some political success. During the Reconstruction Era seventeen blacks were elected to Congress. They represented Alabama, Georgia, Florida, Louisiana, Mississippi, North Carolina, and

South Carolina (Congressional Quarterly's Guide to Congress 1991).

While Reconstruction was a blooming of black political rights and power, its end, foreshadowed by the Compromise of 1877, slammed the door on any further gains for nearly a century. Following Reconstruction, white antebellum elites once again began to dominate state governments throughout the South. The elites saw black political involvement as a threat to their control. Consequently, they used intimidation, poll taxes, literacy tests, long residency requirements, short registration periods, gerrymandering, and at-large elections to disenfranchise blacks (Grofman 1992). J. Morgan Kousser argues that "none of the approaches was sufficient in itself; all worked together as interlocking barriers gradually to stifle [black] political participation" (Kousser 1992). The methods of disfranchisement were formalized through new or amended state constitutions in ways that did not overtly violate the Fifteenth Amendment (Grofman 1992). Furthermore, the Democratic party was deemed a private organization and excluded blacks from voting in its primaries (Williams 1987). These impediments curtailed black political participation, leaving George H. White, a

Republican from North Carolina whose term ended in 1901, as the last African American from the South to serve in Congress for the next six decades (Congressional Quarterly's Guide to Congress 1991). The United States Supreme Court legitimized voting impediments and segregation in its Plessy v. Ferguson "separate but equal" decision in 1896.

The Renewed Fight For African American Rights

With these setbacks, the struggle to improve black political rights began anew. In 1900, W.E.B. DuBois noted, "may the conscience of a great nation rise and rebuke all dishonesty and unrighteous oppression toward the American Negro, and grant him the right of franchise [and] security of person and property" (quoted in Davidson 1992). To help carry on this struggle, the National Association for the Advancement of Colored People (NAACP) was established at New York City in 1910. Concern about passage of Jim Crow ordinances, the Supreme Court's Plessy v. Ferguson decision, and other civil rights problems led DuBois and other leaders to create the NAACP. Progress in the struggle for equal rights was slow. Change could be sought either through the federal courts or new Congressional legislation. Since

disfranchisement largely came from state legislatures, the NAACP decided to focus on litigation (Williams 1987). The first breakthrough came in the Supreme Court's decision in Guinn and Beal v. United States (1915). This case overturned an Oklahoma "grandfather clause law." This law, that was also used in other southern states, enabled uneducated whites to register to vote, even though they were unable to pass a literacy test. Their grandfathers had been on the rolls, while blacks whose ancestors were slaves, were excluded (Guinn and Beal v. United States 1915). Another early victory for the NAACP came in the Supreme Court's 1917 ruling in Buchanan v. Warley, which declared "municipal ordinances that sanctioned residential segregation" to be illegal (Dickinson 1989). The Guinn and Beal and Buchanan decisions provided hope that improvements in civil rights could be made through litigation.

The election of Oscar De Priest, a Republican from Chicago in 1929, marked the arrival of the first African American in Congress since 1901 (Congressional Quarterly's Guide to Congress 1991). In the 1920s, the NAACP focused its attention on elimination of the white-only primary. White-only primaries were possible because the Supreme Court's decision in Newberry v.

United States (1921) ruled that political parties were private organizations and not part of the public political process (Stephens and Scheb 1993). In 1924, in a case originating in Texas, the Supreme Court decided that white-only primaries were unConstitutional and had to be dismantled (Grofman 1992). The Supreme Court retreated from that decision in Grovey v. Townsend (1935) when it reinforced the precedent in Newberry by noting that political parties were not public organizations and, therefore, did not have to open their conventions to blacks. White-only primaries were permanently dismantled when the Court reversed its position again in Smith v. Allwright in 1944. In 1935, Arthur W. Mitchell replaced Oscar De Priest in Congress, signaling the initiation of a strong coalition between African Americans and the Democratic Party. Over the next three decades, six more African Americans were elected to Congress. None, however, represented Southern districts (Congressional Quarterly's Guide to Congress 1991; Appendix B).

The Second World War and the 1940s forever changed the outlook of many Southern blacks. Thousands were called upon to serve in the armed forces, and they were introduced to a world of far less discrimination than

that to which they had been accustomed. When the soldiers returned to the South after the war, they had raised expectations regarding their rights. This change in aspirations resulted in the birth of several important civil rights organizations. The existing racial climate, however, restricted them in the South.

The Congress of Racial Equality (CORE) was formed in Chicago in 1942. From 1942 to 1961, CORE focused on the integration of public accommodations, particularly throughout the South. In 1946, CORE sponsored the "Journey of Reconciliation", an integrated bus trip from Washington, D.C. to Kentucky. While it did not receive much press coverage, the trip later served as the model for the more well-remembered 1961 "Freedom Ride" (Sharp 1989).

The Southern Regional Council, founded in 1944, is a moderate organization created by civil rights activists who were dissatisfied with the Commission on Interracial Cooperation, an organization that worked to improve race relations between the two World Wars. The Southern Regional Council maintains offices in Atlanta and shuns "political activity, demonstrations, and radical economic theory" (Newberry 1989:1425). Instead, the organization focuses on "interracial dialogue,

research and publications programs, and the timely influence of 'Southerners of good will'" (Newberry 1989:1425).

While groups such as the NAACP, the Southern Regional Council and the Congress of Racial Equality fought for black voting rights, discrimination remained rampant across the South. For example, in Louisiana in 1956 and 1957 a federal grand jury heard a complaint that black voters were being illegally purged from registration rolls in many parishes. White voters "challenged" African Americans' qualifications to register, citing such minor errors as the voter listing his or her race as "Negro" or "colored" instead of "black." Although Federal Bureau of Investigation findings indicated that the practice was commonplace, the grand jury failed to indict a single person (Table 2-1).

In the South, electoral concerns were not the only form of racial discrimination. Southern governments used the "separate but equal" principle to legislate segregation in all aspects of life. However, the separate worlds were far from equal. For instance, in 1930 South Carolina's education expenditures per pupil was $10 on white students for each dollar spent on black

Table 2-1: Louisiana African American Voter Purges

Parish	Number Purged	Parish	Number Purged
Bienville	560	LaSalle	345
Caldwell	330	Lincoln	325
DeSoto	383	Ouachita	3240
Grant	758	Ripides	1058
Jackson	953	Union	600

(Source: Attorney General Report, 1957)

students, while in Georgia, Florida, Mississippi, and Alabama that ratio was five to one (Williams 1987). The NAACP legal defense fund set out to end segregated schooling. Finally, in 1954 the Court's decision in Brown v. Board of Education of Topeka, Kansas outlawed segregation within school systems and overturned the "separate but equal" concept of Plessy. Though Brown dealt with school desegregation, it was a pivotal case for the voting rights movement because it focused national attention on the widespread denial of civil rights to blacks.

The 1957 Civil Rights Act

The enactment of the 1957 Civil Rights Act was the first in a series of new Congressional civil rights legislation. It signaled the federal government's willingness to support efforts to eliminate electoral and other forms of discrimination. To help combat electoral discrimination, such as the voter purges in Louisiana, Title I of the 1957 act established a Commission on Civil Rights to investigate allegations of racist electoral actions (U.S. Statutes At Large 1957). The commission was to investigate allegations of voting deprivations due to "color, race, religion, or national origin." It was

to "study and collect information concerning legal developments constituting a denial of equal protection of the laws under the Constitution; and appraise the laws and policies of the Federal Government with respect to equal protection of the laws under the Constitution." Finally, within two years of the 1957 act's passage, the commission was to provide a "comprehensive report of its activities, findings, and recommendations" (U.S. Statutes At Large 1957).

Part II of the 1957 Civil Rights Act provided for an Assistant Attorney General for Civil Rights (U.S. Statutes At Large 1957). The Civil Rights Division of the Department of Justice was established December 9, 1957 (Attorney General 1958). The act empowered the division to "enforce all federal statutes affecting civil rights, and authorize [others also to carry out] such enforcement" (Attorney General 1957). Part IV of the 1957 act specifically granted authorization for the Attorney General "to institute action for preventative relief where for reasons of race or color there is a deprivation or attempted deprivation of the right to vote in any election" (Attorney General 1957).

The Commission on Civil Rights and the Department of Justice quickly began attempts to improve voting

conditions, in the South and elsewhere. In United States v. Raines, the Department of Justice sought to stop "state officials and registrars of Terrell County, Georgia from engaging in discriminatory practices against black voters and refusing them the right to register" (Attorney General 1959). The federal district court dismissed the case because the 1957 Act allowed for actions "against private individuals as well as against persons acting under the color of law," but did not allow for suits against governmental agencies (Attorney General 1959). The government faced a similar problem in United States v. Alabama when the District Court dismissed the case, noting that the state is "not suable as a person" (Attorney General 1959). Though setbacks occurred in both cases, the Department of Justice appealed, and through the Supreme Court succeeded, in having the defendants in both cases found guilty. More important, the Supreme Court's decision upheld the Constitutionality of the 1957 Act (Attorney General 1960).

As improvements in civil rights materialized, many southern whites became restless, leading several state legislatures to ban groups such as the NAACP in the hope of halting any further advances. The Southern Christian Leadership Conference (SCLC), founded in 1957 in New

Orleans, was formed partly in response to these bans (Dickerson 1989). The SCLC stresses nonviolent resistance, and its first president, Martin Luther King, Jr., became the principal spokesperson for the Civil Rights Movement.

In addition to political problems emanating from the South, leaders of the Civil Rights Movement still had to face occasional problems from their supporters. For example, the Supreme Court's decision in Lassiter v. Northhampton County Board of Education (1959) upheld the legality of literacy tests, although it was clear that Southern registrars had been using them to keep black voters from registering. By late 1959, continuing difficulty in implementing the 1957 Civil Rights Act, along with growing antagonism by white Southerners, clearly indicated that only through stronger civil rights legislation was there any hope in substantially reducing voter discrimination.

The 1960 Civil Rights Act

The 1960 Civil Rights Act instituted important new measures in responding to weaknesses of the 1957 act. Department of Justice officials had experienced difficulty in getting records, subpoenaing witnesses, and

filing cases. Title I of the 1960 act contained stronger penalties for obstructing federal court orders, and Title III extended the power of the Department of Justice to review and retain election records. Every election officer was to maintain for 22 months all records relating "to any application, registration, payment of poll tax, or other act requisite to voting" in an election. Upon written demand of the Attorney General, all records were to be made "available for inspection, reproduction and copying." Title IV extended the powers of the Commission on Civil Rights, and Title VI gave the courts power to appoint "Voting Referees" to investigate whether individuals were denied the right to vote (U.S. Statutes At Large 1960).

Despite the enactment of the 1960 Civil Rights Act, new problems and concerns highlighted the need for even more comprehensive legislation to address civil rights discrimination. Two of the most important cases of the period were Gomillian v. Lightfoot and Baker v. Carr. Gomillian alleged that officials of Tuskeegee, Alabama redrew municipal boundaries to exclude practically all registered blacks (Attorney General 1960). The federal courts eventually found for the plaintiff, and required the city to return to its original boundaries. Baker, a

case originally brought in Memphis, Tennessee, alleged the unConstitutionality of a statehouse redistricting plan which gave 20 of the 33 state senate seats to 37 percent of the population and 63 of 99 state house seats to 40 percent. Argued before the Supreme Court in 1961, the decision in Baker was the first in a chain of cases culminating in Reynolds v. Sims, which made it mandatory that redistricting plans strive to achieve districts with equal population.

By the early 1960s, the confidence of civil rights organizations rose as their members saw increasing federal support for ending racial discrimination. The organizations began to sponsor demonstrations, boycotts, and marches to enforce newly gained freedoms and to focus attention on issues where work remained to be done. One such event was the "Freedom Ride." Occurring during the summer of 1961, the ride was an integrated bus trip through the South to test the Interstate Commerce Commission's decree that public transit terminals could not be segregated. Sponsored by the Congress for Racial Equality, the trip garnered national press attention when riders were attacked and one of the buses was fire bombed. As the threats escalated, many called for an end to the project. However, through the

help of the Student Nonviolent Coordinating Committee (SNCC) and other civil rights groups, the "Freedom Ride" continued (Sharp 1989; Williams 1987).

Other civil rights projects during the early 1960s included lunch counter "sit-ins," bus boycotts, and voter education projects.[1] These demonstrations, which focused national attention on the continuing problem of racial inequality, forced the hand of local authorities by frequently leaving them with full jails and poor national publicity. The friction between civil rights workers and local white authorities became notorious in 1964 when two CORE workers, Michael Schwerner and James Chancy, and SNCC volunteer, Andrew Goodman, were killed while working on a voter education project in Neshoba County, Mississippi. Their deaths focused national attention on the continuing problem of racial injustice and solidified national support for the 1964 Civil Rights Act.

[1] During the 1960s many civil rights campaigns were sponsored throughout the South. The SCLC, at the time the most prolific civil rights organization, sponsored major campaigns in Albany, Georgia (1961-62), Birmingham (1963), St. Augustine, Florida (1964) and in Selma, Alabama (1965). During the Birmingham campaign, civil rights leader Martin Luther King was jailed. The Birmingham and Selma campaigns were significant to Congressional passage of the 1964 Civil Rights Act and the 1965 Voting Rights Act. The Selma campaign reached its climax when protesters were attacked as they began a march to Montgomery on what later became known as "Bloody Sunday."

The 1964 Civil Rights Act

In 1964, Congress passed a sweeping civil rights act that focused primarily on social and personal discrimination more than electoral concerns. However, Title I of the act aided the voting rights movement by helping to reduce voter discrimination in three ways. First, it became illegal not to use a uniform set of standards for determining qualification to vote. It also became illegal to deny someone the right to vote because he or she failed to complete the registration form properly. Finally, literacy tests were outlawed unless "such test is administered to each individual and is conducted wholly in writing and a certified copy of the test and of the answers given by the individual is furnished to him within twenty-five days."

The remainder of the 1964 Act supported social aims of the Civil Rights Movement. Title II made it illegal to discriminate on the basis of race, color, religion, or national origin. Title III desegregated public facilities, and Title IV treated issues of school desegregation. Title VI made federally assisted programs non-discriminatory and provided for termination of federal funds if discrimination persisted. Title VII mandated that employment opportunities must be equal to

all without regard to race, religion, color, or national origin.

In addition to the new Civil Rights Act, the Twenty-fourth Amendment to the Constitution was also ratified in 1964. It outlawed poll taxes in all federal elections, and allowed Congress to create appropriate legislation to enforce the Amendment.

The 1964 Civil Rights Act finally provided an effective means for addressing racial discrimination in most public social arenas. However, there was still need for stronger electoral legislation, as evidenced by African American voter registration numbers. During Reconstruction more than 700,000 African Americans were registered, but by 1940 the number had declined to only 151,000, three percent of the voting-age population. As the Civil Rights Movement began, the number of registered voters slowly began to increase. By 1947, the number had risen to 595,000 and by 1956 to 1,238,038, 25 percent of voting-age blacks. In 1964, the percentage of blacks registered reached a then all-time peak for the post-reconstruction period, 43.3 percent. However, that percentage was still far below that of whites (Davidson 1992).

To mitigate this racial disparity in voting power, and also to underscore the need for additional civil rights legislation, a series of voter registration projects were started across the South. The most important was the Voter Education Project sponsored by the Southern Regional Council in Mississippi in 1962. After harsh responses by whites to the project, the SRC put its efforts on hold in order to lobby for passage of additional voting rights legislation. After passage of the 1965 Voting Rights Act, the project was resumed in various parts of the South and continues today (Newberry 1989).

Another important political rights project was the SNCC-sponsored Mississippi "Freedom Summer." With help from CORE and other civil rights organizations, SNCC attempted to register, educate, and politically empower black citizens in Mississippi. The project created the Mississippi Freedom Democratic Party (MFDP) as an alternative to the white-controlled Mississippi Democratic Party. The MFDP attempted to be seated at the 1964 Democratic National Convention in place of the regular delegates. Although the MFDP was able to focus national media attention on racial discrimination in

Mississippi, only a few delegates were offered seats at the convention (Sharp 1989).

While many projects focused attention on the need to pass additional electoral civil rights legislation, the turning point came when the Southern Christian Leadership Conference sponsored a civil rights campaign in Selma, Alabama in 1965. Selma became famous after local and state police physically attacked marchers as they crossed a bridge leading out of the city toward Montgomery on March 7, 1965. Leaving scores injured, the event, later to become known as "Bloody Sunday," was captured on film footage and broadcast nationally on evening newscasts (Garrow 1978).

The 1965 Voting Rights Act

With the passage of the Twenty-fourth Amendment calling for additional legislation to help halt electoral discrimination, President Johnson on March 15, 1965 sent Congress a sweeping voting rights act. Recalling such recent incidents as "Bloody Sunday" in Selma, he urged speedy passage. The Voting Rights Act was passed on August 3, 1965. Three days later, in the same room where President Lincoln had signed the Emancipation Proclamation more than one hundred years earlier,

President Johnson signed the 1965 Voting Rights Act into law (Davidson 1992).

The Voting Rights Act and the subsequent modifications to it are clearly the most important pieces of legislation this century to assist black electoral rights. The act finally allowed large numbers of blacks to register, vote and hold elected office. Furthermore, it codified a framework for resolving questions of voter discrimination. The overarching purpose of the Act is set forth in Section 2 "No voting qualification or prerequisite to voting, or standard, practice or procedure shall be imposed or applied by any State or political subdivision to deny or abridge the right of any citizen of the United States to vote on account of race or color. All tests and devices, including the poll tax, used for discrimination in voting or in registering to vote" were suspended. It became a federal offense "to intimidate, threaten, or coerce any person for urging or aiding any person to vote" or from enforcing the Voting Rights Act (Public Law 89-110).

To enforce the Fifteenth Amendment of the Constitution, the Attorney General may send federal examiners "to serve for such period of time and for such political subdivisions as the court shall determine is

appropriate" (Public Law 89-110). To decide in which geographic areas they should intervene under the original Voting Rights Act, the Justice Department used the following provisions:

> (1) The jurisdiction maintained a test or device as a precondition for registering or voting as of November 1, 1964, and
>
> (2) less than fifty percent of the voting-age population was registered to vote on November 1, 1964, or less than fifty percent of the voting-age population voted in the November 1964 presidential election (Grofman 1992).

The provisions did not target all areas with a history of discrimination but those with the worst records. The act was renewed and slightly modified in 1970 and 1975, primarily to extend its application to additional geographic areas.

In terms of improving African Americans' access to the ballot box, the Voting Rights Act has been a success. In Mississippi, historically one of the worst discriminators, African American registration rose from 6.9 percent of the black population in 1964 to 64.1 percent by 1980 (Parker 1990). The 92nd Congress, in 1971, seated the first black from the South since George H. White had left office in 1901. The 93rd Congress, in 1973, included the first members to be elected this

century from former Confederate states, Andrew Young and Barbara Jordan, Democrats from Georgia and Texas. However, some states, including Mississippi and Alabama, began to use gerrymandering to negate the black vote (Parker 1990; Kousser 1992). This gerrymandering became blatant enough that the Department of Justice and civil rights advocacy groups brought litigation to strike it down.

Litigation was occasionally successful, but cases were often dismissed for lack of evidence. In 1980, the Supreme Court heard Mobile v. Bolden, a case alleging racist electoral gerrymandering in southern Alabama. The Court determined that to prove the existence of racially discriminatory gerrymandering, the plaintiff had to demonstrate that the defendant, the redistricter, had intended to discriminate. Since proving intent is nearly impossible unless a defendant incriminates himself, very few claims of discriminatory gerrymandering were successful.

The 1982 Amendments to the Voting Rights Act

The renewal of the Voting Rights Act in 1982 took steps to address the difficulties raised by the Mobile v. Bolden ruling. The revised act modified the standard for proving racially discriminatory gerrymandering. Under the revised act, the plaintiff is allowed to prove discrimination by "present[ing] evidence of minority participation, including evidence of the levels of minority registration and voting, changes in such levels over time, and disparities between minority-group and non-minority-group participation" (Public Law 97-205). Basically, the change allows the plaintiff to use outcome as proof of discrimination.

In Thornburgh v. Gingles in 1986, the Supreme Court upheld the Constitutionality of the 1982 amendments. Thornburgh alleged racial gerrymandering of districts for the North Carolina statehouse. North Carolina had multi-member districts from which several members were elected at-large. The Supreme Court agreed with the plaintiff that the system of large, multi-member districts acted to dilute minority voting power. If smaller, single-member districts were carved from the multi-member districts, an adequate minority population existed for creation of several majority-minority districts. The most important

result of Thornburgh was that the Court created a three-step test for determining areas that were ripe for the creation of majority-minority districts:

> (1) The minority group must be large and geographically compact enough to constitute a majority in a single-member electoral district.
>
> (2) The group must be politically cohesive.
>
> (3) The white majority must vote as a block to the degree that it can usually defeat the candidate preferred by the minority (Thornburgh v. Gingles 1986).

Armed with the 1982 amendments and the Supreme Court's three-pronged test from Thornburgh, the Department of Justice, in the early 1990s, ordered the creation of several majority-minority districts across the Southeast at both Congressional and statehouse levels (Figure 2-1). Few southern states, including North Carolina, had majority-minority districts until they were mandated by the federal Department of Justice. Hence, the autumn of 1992 marked a watershed in the number of African Americans elected to Congress. Thirty-nine African American Representatives were elected that year; 19 were from the South. During the 1990 election, 25 had been successful, with a mere four from the South.

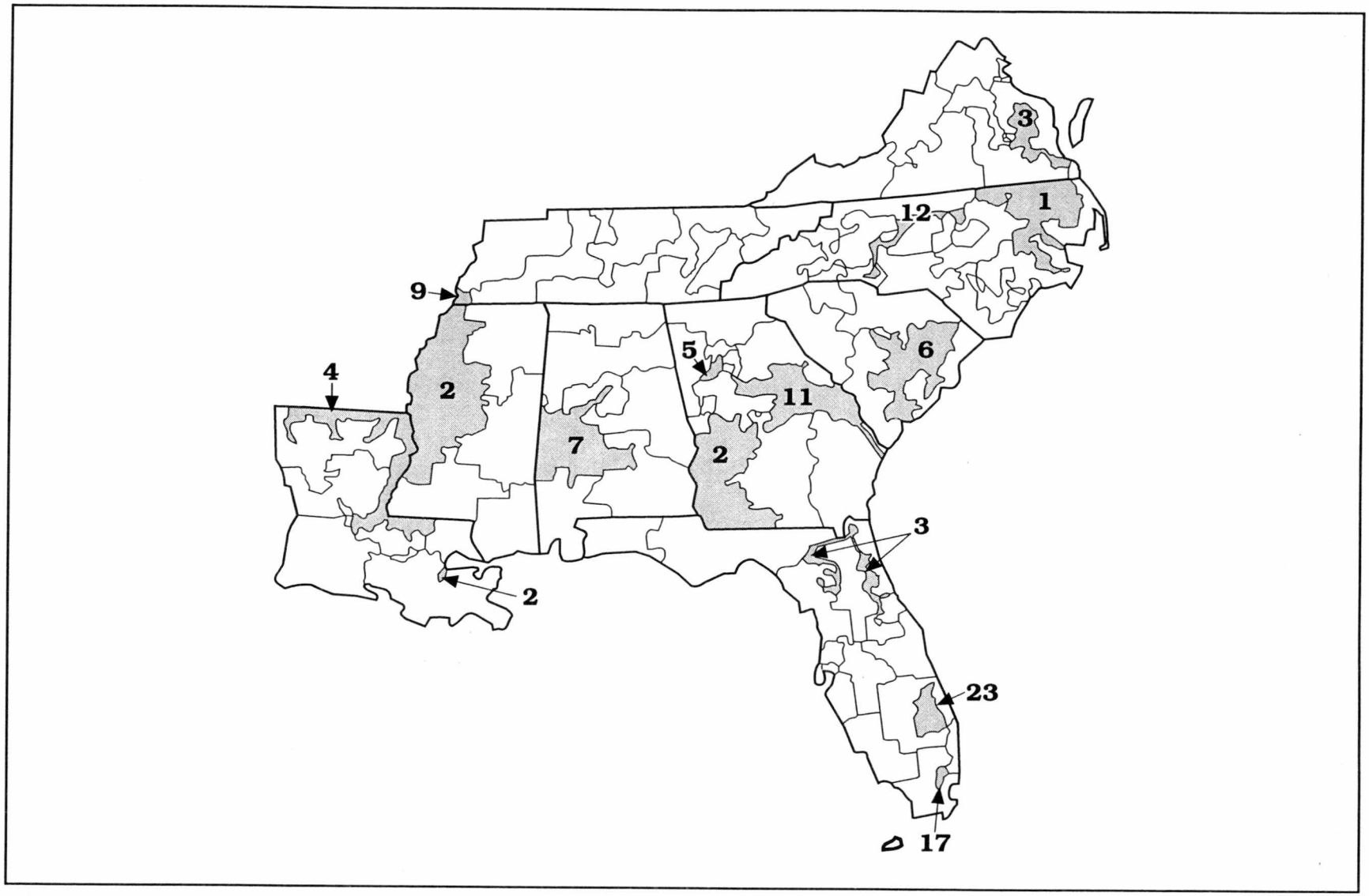

Figure 2-1: Black-majority Congressional Districts in the Southeast, 1992.

In most of the South, African Americans are not likely to be elected to Congress unless their districts are majority black, or at least contain populations in which whites are a minority. With a few exceptions, the statistics seem to bear this out. On average, Congressional Districts represented by African Americans are 58 percent black.[2] Furthermore, redistricting after the 1990 census, under the 1982 Voting Rights Act, produced a subsequent rise in the number of African American representatives. The easiest way to increase the number of minority representatives in Congress is to mandate majority-minority districts. Will this method remain legal?

North Carolina's First and Twelfth Congressional Districts were among those created to meet Department of Justice demands. The Twelfth is also one of several districts that have been under federal court scrutiny. Chapter 3 describes the political atmosphere in which the Twelfth was created, and outlines the events which led to the recent challenge to its Constitutionality.

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[2] Computed from ten consecutive years of data in *Black Elected Officials*.

Chapter 3

North Carolina's Twelfth Congressional District: The Geography of its Creation

In its attempt to make reparation for historic discrimination against African Americans, the federal government used the Voting Rights Act to mandate the creation of majority-minority districts. That mandate led to the creation of North Carolina's Twelfth Congressional District, which was challenged in Shaw v. Reno. This chapter analyzes the creation of the Twelfth and the origin of Shaw v. Reno.

Reapportionment, Redistricting, and Gerrymandering

Any discussion of Shaw and North Carolina's Twelfth District must be founded on an understanding of three basic concepts: redistricting, reapportionment, and gerrymandering. Although many people use redistricting and reapportionment as interchangeable terms, they refer

to different processes. Reapportionment is the process of allocating the numbers of Congressional Districts and Representatives due to each state based on population. By contrast, redistricting is the process of redrawing the geographic boundaries of the allotted districts.[1] Reapportionment is a federal process, while redistricting is usually undertaken by state legislatures. The reapportionment process occurs every ten years, following the decennial census. The federal census was initially created to serve this purpose (Butler and Cain 1992). Since many states gain or lose districts during reapportionment, redistricting also occurs roughly every ten years, though it conceivably can happen more or less frequently.

The term "gerrymandering" arose in 1812 to describe the creation of a district in Massachusetts that was oddly shaped (Figure 3-1). Massachusetts' governor at the time was Elbridge Gerry, and the district was drawn to pack Gerry's opposition, the Federalists, into a single district so that his party, the Republican-

[1] *Black's Law Dictionary* defines reapportionment as the "realignment or change in legislative districts brought about by changes in population and mandated by the Constitutional requirement of equality of representation (i.e. one person, one vote mandate). A new apportionment of seats in the House of Representatives among states 'according to their respective numbers,' is required by Art. 1, Section 2 of the U.S. Constitution after each decennial census." Webster's *Third New International Dictionary* says to redistrict is "to organize into new territorial, especially political, divisions."

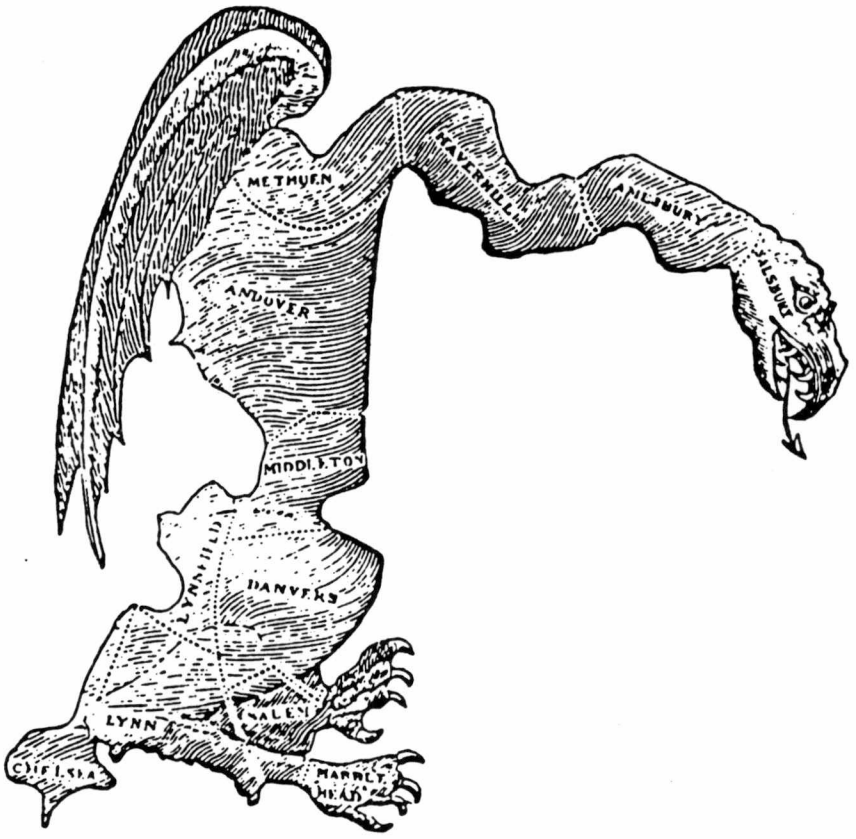

Figure 3-1: The Original Gerrymander. Idealized Drawing of the 1812 Massachusetts State Senate District Created by Governor Gerry's Republican-Democrats to minimize the Federalist Vote (Boston Gazette March 26 1812, reprinted in Morrill 1981).

Democrats, could win control of the legislature. According to Morrill, "gerrymandering is a classic geographic device for electoral discrimination. It means the manipulation of space so that some voter interests -- racial, ethnic, political, or territorial -- are furthered, and others are curtailed" (Morrill 1991:23). Since all redistricting plans are created by groups of individuals who have personal desires and goals, essentially all plans are gerrymandered. Consequently, legal and academic research in determining gerrymandering focuses on excessive or unreasonably harmful plans.

The 1991 North Carolina Redistricting Plan

Thornburgh v. Gingles, along with cases from Mississippi and Georgia, created a new set of rules for the redistricting and reapportionment that occurred after the 1990 census. North Carolina's population grew significantly enough in the 1980s that an Congressional additional seat was allocated during federal reapportionment in 1991. Of North Carolina's eleven prior Congressional Districts, seven were served by Democrats and the remaining four by Republicans (Figure 3-2). The geographic distribution of Congressmen by party affiliation followed traditional North Carolina

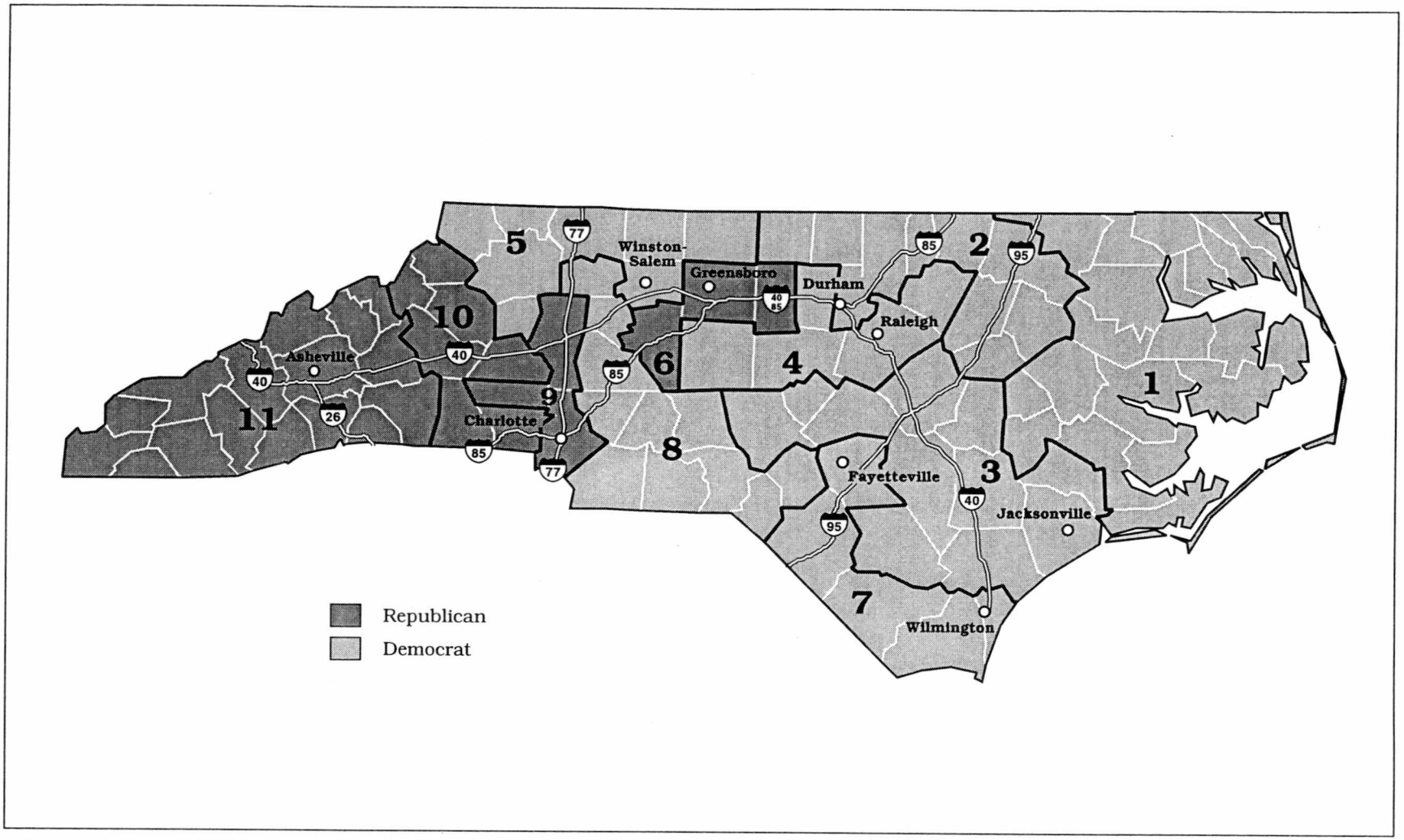

Figure 3-2: North Carolina Congressional Districts: Party Affiliation after the 1990 Election. Source: North Carolina Legislature.

patterns. Republicans served districts located in the mountainous west and the western Piedmont, while Democrats controlled the eastern two-thirds of the state. Most of North Carolina's black residents live within the Democratic sections of the state or on the fringes of Republican territory (Figure 3-3). A significant Native American population is located in the southeastern corner of the state, centering on Laurinburg and Lumberton.

As black leaders and organizations, spearheaded by the National Association for the Advancement of Colored People, began their campaign for the creation of majority black districts, they found a surprising ally -- the Republican Party. Lacy Ford believes that, "Modern Republicans don't support these districts just because they think blacks ought to be represented. These districts tend to simultaneously create more Republican districts. They concentrate black votes and minimize the effect of black votes in other districts" (quoted in Perlmutt 1992:1A).

The North Carolina redistricting process was controlled by white Democrats in the state legislature. They attempted to minimize possible Republican gains that would result from the creation of black-majority

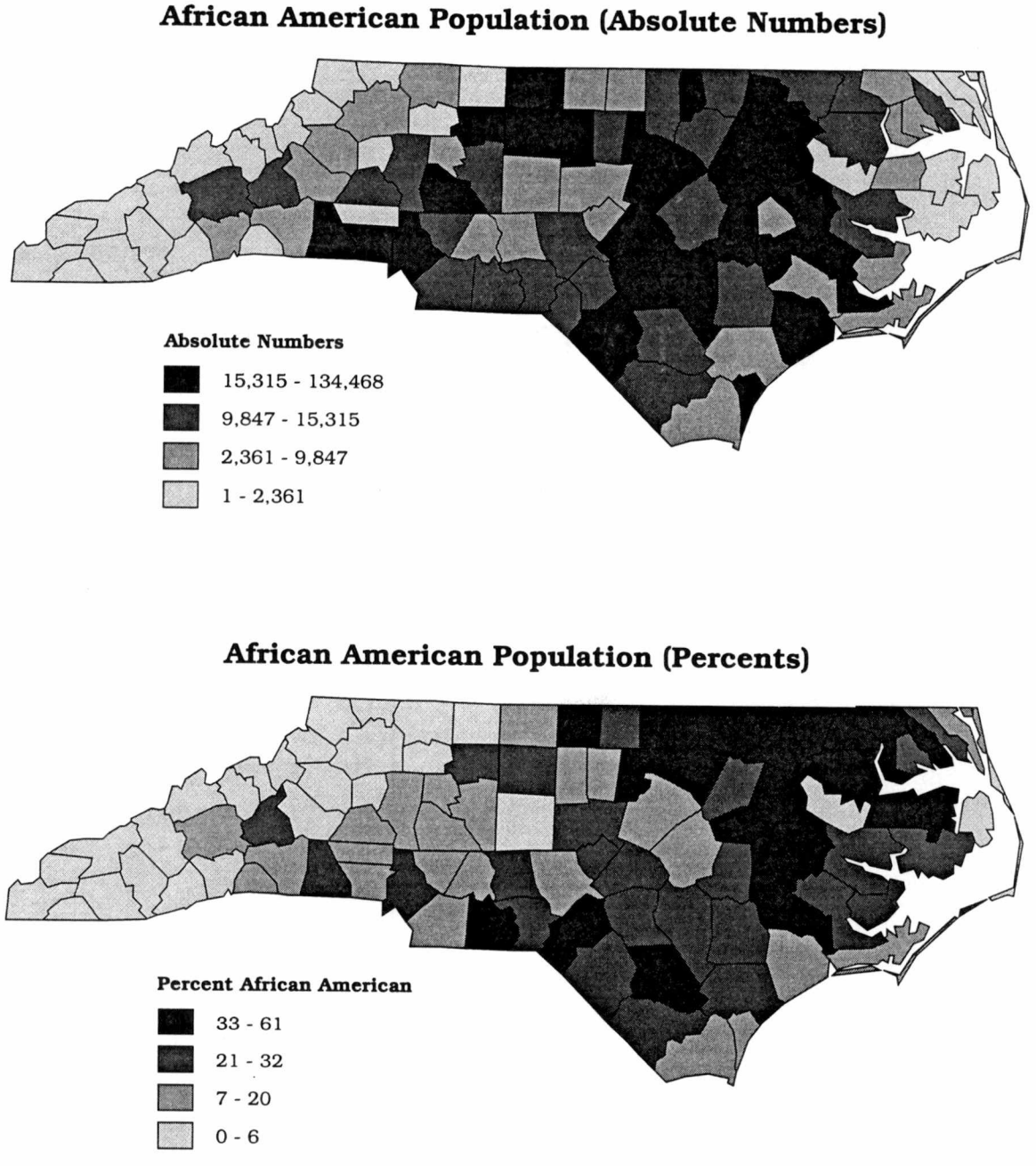

Figure 3-3: North Carolina African American Population, 1990. Source: U.S. Bureau of the Census.

districts. The first Congressional redistricting plan, enacted in 1991 by a Democratic controlled legislature, created just one black-majority district and did not jeopardize the electoral base of any Democratic Representatives (Figure 3-4).

The new black-majority district, North Carolina's First, was located on the Coastal Plain in the northeastern corner of the state. Its boundaries closely corresponded to those of the district that ninety years earlier had elected George Henry White, North Carolina's last African American Congressman to serve before disfranchisement. Walter B. Jones, a white, was the Representative for the old First District, whose boundaries included much of the area encompassed by the new one. In 1991, Jones announced that he would not run for re-election. His retirement allowed the creation of a majority-black district without significantly impacting other incumbent Democratic Representatives. In the redistricting plan, North Carolina's newly gained Twelfth District was drawn to include an overwhelmingly Republican electorate (Figure 3-4). This district was so Republican that it severely undermined the constituency bases of two of the four incumbent Republican Representatives. The Republican party had expected the

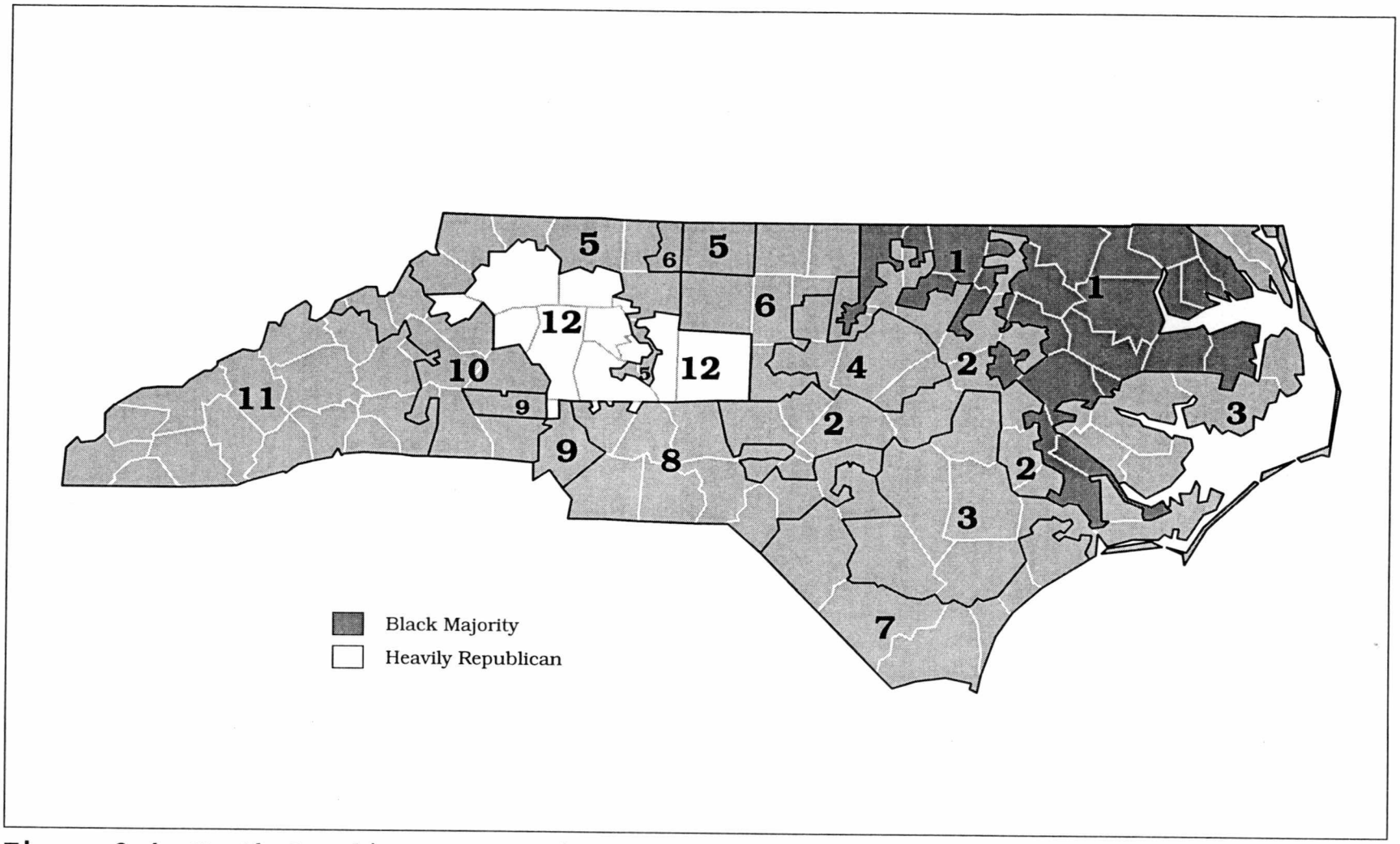

Figure 3-4: North Carolina Congressional Redistricting Plan, Ratified July 9, 1991. Source: North Carolina Legislature.

creation of majority-black Congressional Districts would help to elect more GOP representatives, but in North Carolina this strategy had backfired.

Federal Review of the 1991 Redistricting Plan

Prior to becoming final, the North Carolina redistricting plan had to be pre-cleared by the Department of Justice under the Voting Rights Act to determine whether black candidates had a reasonable chance of being elected. Although the plan was viewed as a success by the state legislature because it created a majority-minority district, the Justice Department struck it down. The Department noted that minority population was nearly twenty-two percent of the state's total and recommended that the legislature should strive to create at least one additional majority-minority Congressional District so that the number seats would more closely reflect the population composition. Assistant United States Attorney General John Dunne noted, "The Congressional plan failed to account for minority voters in the south-central to southeastern part of the state. It appears that the state chose not to give effect to black and Native American voting strength in this area" (quoted in Trevor 1991:G9).

These comments indicate Justice Department support for a second majority-minority district in the general area proposed for one in the 1991 Republican alternative to the plan adopted by the legislature (Figure 3-5). The Republican plan, sponsored by David Balmer of Charlotte, was scoffed at by Democrat lawmakers (Trevor 1991). House Speaker Dan Blue, a black Democrat from Raleigh, charged, "We're simply not going to lay back and look crazy and satisfy their [Justice Department] whim if it's based on that kind of meandering district .... [A court challenge] is something we have to seriously look at" (quoted in Trevor 1991:G9). Sam Hunt, Democrat from Burlington, who co-chaired the redistricting committee, added, "I think the speaker is in a better position to speak to minority issues than David Balmer or some bureaucrat in Washington. We can't run blindly and do whatever they want" (quoted in Trevor 1991:G10).

The 1992 North Carolina Redistricting Plan

As Democrats formulated a second plan to meet the Justice Department's requirement of two majority-minority districts their attitude was best characterized by Frank Parker, executive director of the Lawyers' Committee for Civil Rights Under Law. "I don't think

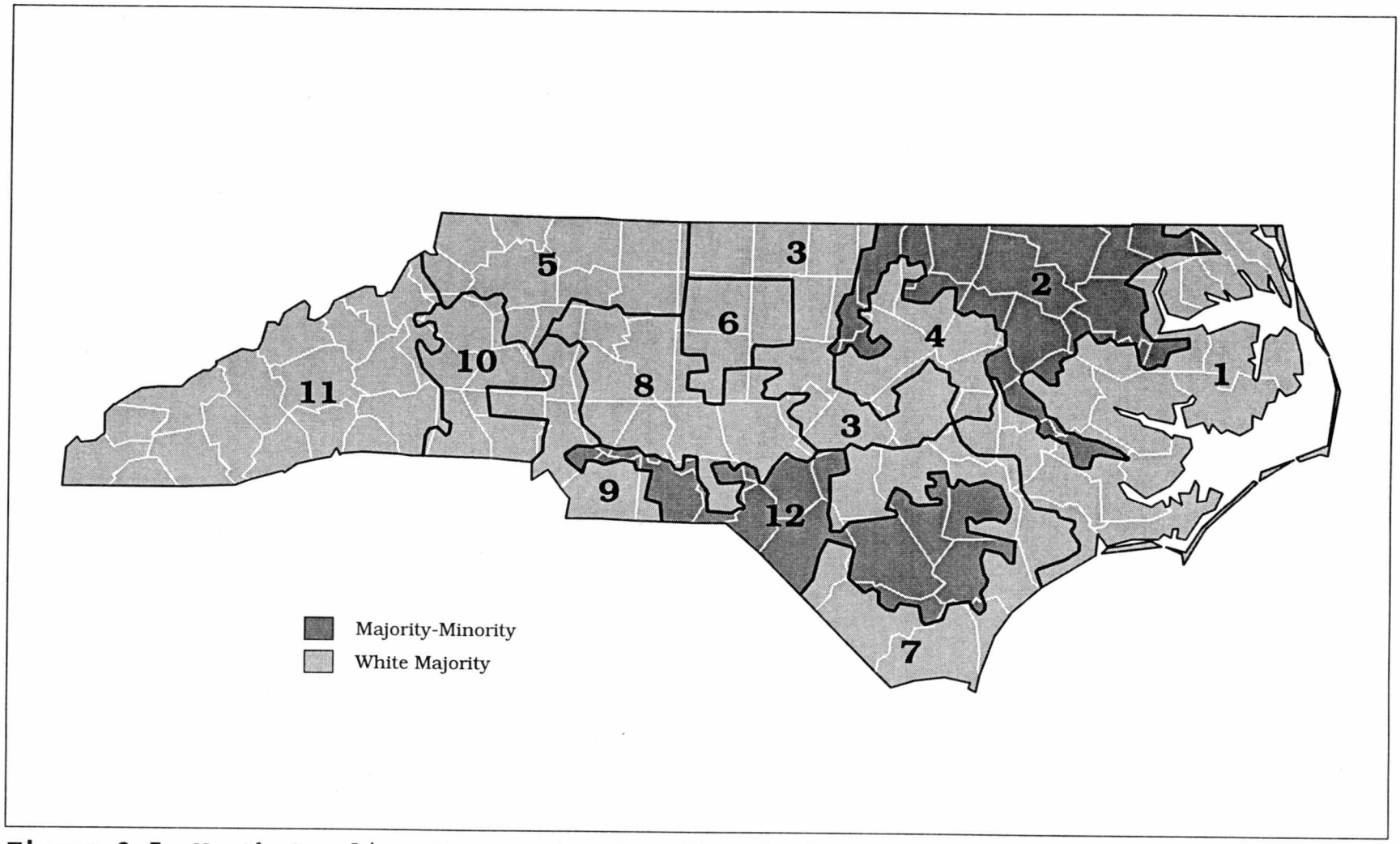

Figure 3-5: North Carolina Congressional Redistricting; The 1991 Republican Alternative. Source: North Carolina Legislature.

the Justice Department can dictate a location for district lines. If the black percentage is high enough, then that should satisfy the Department" (quoted in Glasser 1992:C11). The second plan from the Democratic legislature was enacted early in 1992 (Figure 3-6). It maintained a majority-minority district on the northern Coastal Plain. However, the district's configuration was changed so that it extended farther south across the Coastal Plain to include sections of counties in the southeastern corner of the state that had been singled out by the Justice Department as having diluted minority voting strength.[2]

To meet the Justice Department's requirement of two majority-minority districts, the legislature made the Twelfth a majority-black district on the Piedmont from Charlotte to Durham. It rejected the one proposed by Representative Balmer, which would have meandered across the southeastern corner of the state from Charlotte to Wilmington (Figures 3-5 and 3-6). To create a second majority-black district, the legislature had to dismantle the overwhelmingly Republican district created in the 1991 plan (Figure 3-4). The new majority-minority district included central-city neighborhoods of

[2] Minority voting strength is diluted when it is purposely scattered among several electoral districts to negate the possibility of a politically effective minority vote.

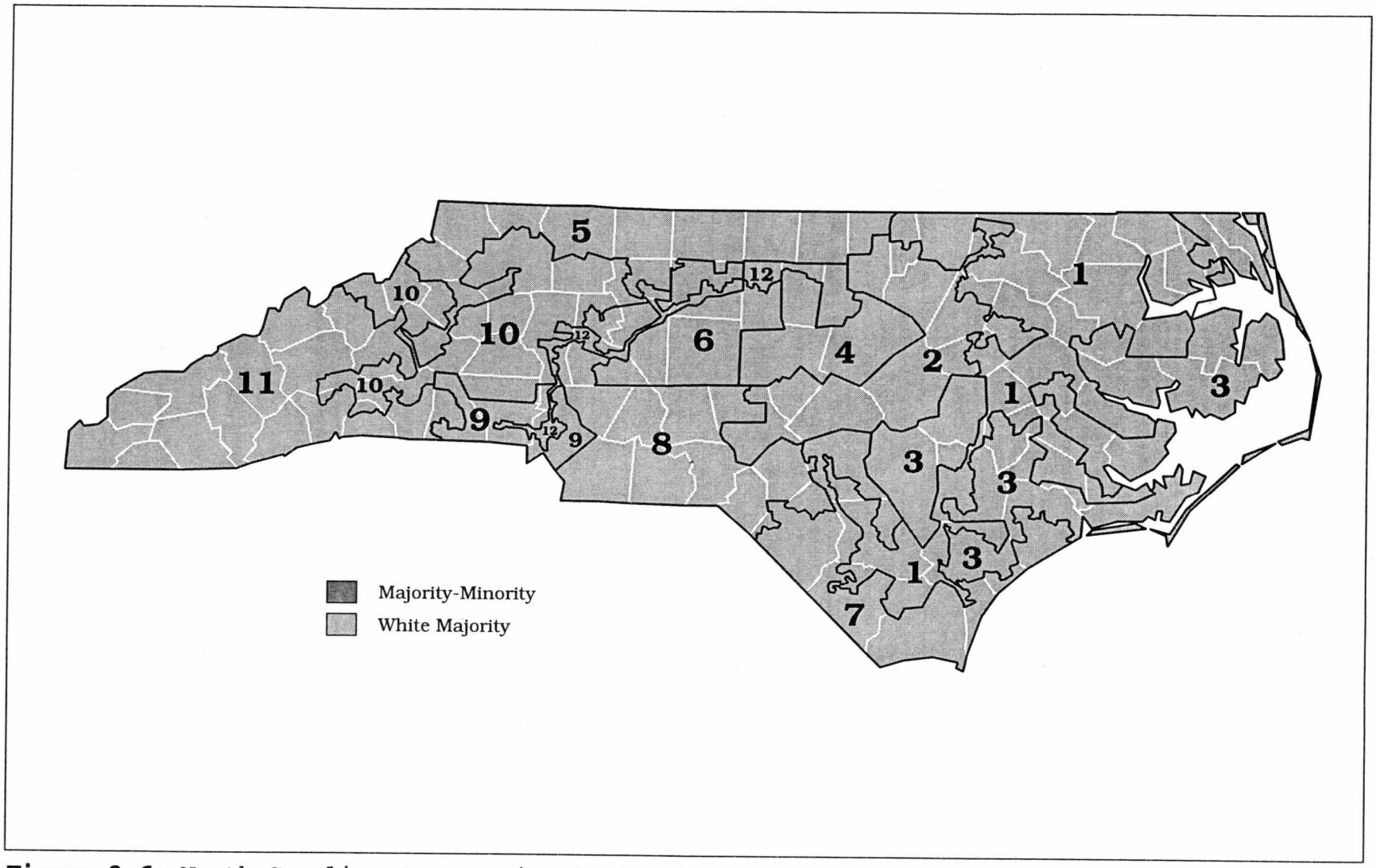

Figure 3-6: North Carolina Congressional Districts, 1992. Source: North Carolina Legislature.

Charlotte, Greensboro, Winston-Salem, Durham, and High Point connected by narrow rural stretches. The central-city constituents were overwhelmingly black Democrats while the population of the rural stretches was largely comprised of white Republicans. In designing the Twelfth, the state legislature was trying to create a black-majority district without disturbing the existing Democratic dominance. Since the preponderance of central-city voters ensured that the district had a Democratic majority it was in the interest of Democrats to include as many white Republicans as possible in the Twelfth. This would weaken other Republican-majority districts in the traditionally Republican Piedmont.

There were more subtle political factors at play in the state legislature's decision to place the new black-majority district on the Piedmont instead of in the southeastern corner of the state. State legislators were concerned that creating a black-majority district in the southeastern corner would undermine the electability of incumbent white Democrats from that region. They probably suspected that minorities in such a district would vote for black rather than white Democrats. They also feared that whites would continue to shift to the Republican party, which had begun in the

1960s in reaction to the Democratic support of the Civil Rights Movement.

In the 1992 redistricting plan, the legislature wavered from the traditional practice of not splitting counties or voting precincts among districts. In Mecklenburg County and Charlotte, fifteen precincts were split, including one in the northern part of the county that was divided among three Congressional Districts. Members of the legislature argued that they were forced to end the practice of not splintering local electoral units among Congressional Districts because of Justice Department demands (Martin 1992). While the legislature may have been forced to splinter counties to meet the federal requirements, clearly it went far beyond what was necessary to create the two black-majority districts. The legislature created a plan that had the two mandated majority-minority districts, while simultaneously negating possible Republican gains from their formation. An article in the *Winston-Salem Journal* noted, "The final map [the 1992 plan] also reflects some last-minute maneuvering to keep some of Neal's [the Democratic incumbent Representative] minority support in Forsyth County, which is solidly Democratic, within the new configuration of his

district" (Martin 1992:D13). Not only was some of the African American vote kept in Neal's district, the county was split to include part in the Tenth Congressional District. This district was a newly-created, Republican-leaning one to which were added 57,730 mostly Republican Forsyth residents. The 57,730 were removed from Neal's Fifth District to minimize the chances of Neal losing his bid for re-election. The number of voters placed in the Tenth District closely matched the 53,174 from Forsyth County who were placed in the Twelfth. The new shapes of the Fifth and Tenth Districts are as bizarre as that of the Twelfth (Figure 3-6). This seems to belie the legislature's claim that the need to create two majority-minority districts forced the splitting of counties. While creating the Twelfth District on the Piedmont did necessitate splintering some counties, the example of Forsyth clearly indicates that splintering went beyond what was necessary.

Did the two majority-minority districts succeed in facilitating the election of blacks to Congress? In the 1992 primaries for the Twelfth District, a black won the Democratic nomination outright, while two blacks were forced into a runoff in the Republican primary. In the

general election, Melvin Watt, a black Democratic attorney from Charlotte, won. In the First District, a white won the Republican primary while a white and a black were forced into a runoff for the Democratic nomination. In the past, runoff elections were used as a method of negating the black vote. However, with the district majority-black, the runoff ran counter to tradition. Walter B. Jones Jr., son of the incumbent, had the largest percent of the initial primary vote, but he lost in the runoff to Eva Clayton, a black. She went on to beat Ted Tyler, the Republican candidate in the general election.

Legal Challenges to North Carolina's Twelfth District

The process in creating the Twelfth District included both federal mandates and political maneuvering, including gerrymandering to negate possible Republican gains. In the aftermath of the Twelfth's creation, five white voters from Durham County filed Shaw v. Reno. This case questioned the Constitutionality of the Twelfth on the grounds that it was excessively gerrymandered and represented a form of reverse discrimination. The Supreme Court responded neither to gerrymandering or reverse discrimination in its decision in Shaw. Instead,

it chose to question the Constitutionality of any majority-minority district that does not have some unifying factor beyond race.

Recent decisions seem to indicate the Twelfth may be legal, while similar districts in Georgia and Louisiana have been ruled unConstitutional. All of the lower federal court decisions were appealed to the Supreme Court, which agreed to hear the cases. The North Carolina case is to be heard in 1996.[3] On June 29, 1995, the Supreme Court in Miller v. Johnson declared the Eleventh Congressional District of Georgia to be illegal. In the Louisiana case, United States v. Hays (1995), the Supreme Court dismissed the action for lack of a legal standing to sue. However, the door was left open for future complaints.

The fallout from these cases was still being determined at the beginning of the Supreme Court's new term in October 1995. One thing that is clear is the need for a standard method for testing the Constitutionality of Congressional Districts. Why is North Carolina's Twelfth District considered to be Constitutional, but Georgia's Eleventh District not? The

[3] The Georgia and Louisiana cases were reviewed concurrently. However, the Court only heard merits for the Georgia case; the Louisiana case was assigned a memorandum decision. North Carolina's Twelfth was initially proposed for concurrent review along with the challenged districts in Georgia and Louisiana. However, that motion was denied.

Twelfth has the odder shape of the two, while in spatial makeup they share many similarities. One might argue that differing legal standards were applied in these two cases when considering the "communities of interest" requirement from Shaw v. Reno.

Clearly a need exists for a standard legal method to determine unifying characteristics. Considering the spatial nature of redistricting and many legal scholars' ignorance of spatial analysis, it is reasonable that the method should, at least in part, come from Geography. In the chapters that follow, a methodology is developed, and applied to North Carolina's Twelfth District.

Chapter 4

Congressional Redistricting: An Imperfect Science

Congressional redistricting has been a significant topic in the United States since 1812, when the original "Gerrymander" was delimited in Massachusetts. The struggle for African American political equality has an even longer history, dating from the Constitutional conventions when abolitionists attempted to ban slavery. The two realms of research have mingled over the years and with increasing frequency since passage of the 1965 Voting Rights Act. After 1965, the focus of political discrimination against blacks shifted from denial of the opportunity to cast a ballot to negation of that ballot. For example, Frank Parker chronicles post-1965 gerrymandered redistricting in Mississippi that effectively restricted the newly-registered black voters (Parker 1992).

Shaw v. Reno and the continued questions regarding the Constitutionality of North Carolina's Twelfth Congressional District are just the most recent battles in the long war of racial electoral discrimination. A considerable body of literature has developed within the geography, legal, and political science disciplines to explain the effects of Congressional redistricting on civil rights.

Much of the academic literature focuses on identification of ways to minimize gerrymandering in redistricting plans. A review of the literature elucidates numerous criteria that contribute to this goal. Morrill's set of eight criteria are generally recognized as those which embody the most important aspects of the problem (Figure 4-1). The criteria were developed both through normative decisions by academics and legal discourse. Of the eight criteria, the Constitutional group were the only ones required by law for redistricting plans prior to the Shaw v. Reno decision.

The equal population criterion originated in the equal protection clause of the 14th Constitutional Amendment. Its current interpretation, however, began with Baker v. Carr, a 1962 Supreme Court case. The

Constitutional Criteria

1. Equal population
2. Equal probability of representation (racial and ethnic equality)

Geographic Criteria

3. Compactness and contiguity
4. Integrity of communities of interest

Political-Geographic Criteria

5. Representation of political units
6. Integrity of political boundaries

Political Criteria

7. Altering the system as little as possible
8. Reduction of political gerrymandering; partisan and bi-partisan; balance of safe and competitive districts;

Figure 4-1: Morrill's Redistricting Criteria
Source: Political Redistricting and Geographic Theory (1981:18)

Court's decree in Baker set in motion a chain of decisions culminating in Reynolds v. Sims that established the "one-person, one-vote" concept. This concept has been used in subsequent cases to require equal population among electoral districts.

Over the past three decades several problems have arisen in the implementation of equal population. For instance, the House of Representatives' membership of 435 does not change with growth or decline in the nation's population. Reapportionment, therefore, occurs after each decennial census to reallocate Congressional seats among states to closely approximate their percentages of the nation's population. Since Congressional seats are not split between states it is statistically impossible to achieve equality of population on a national basis. Most states will be slightly over or under represented.

Even within a state, it is extremely difficult to achieve districts of equal population. A state's population may not divide equally among its Congressional Districts, leaving at least one with a population that varies from the other districts. Another, and statistically more significant, problem is how to redistrict populations that are not spread evenly across space. For instance, in Hawaii a single island might

have a population that is slightly over or under the "ideal" equal population size. If this island had slightly more population than its "ideal," does it make sense to remove population from that district and add it to another district composed of the population of another island? Or should the island simply be designated as a single district? The courts have agreed that, within reason, district populations may vary to allow persons from recognizable and identifiable geographic units to remain together.

The problems in achieving districts of equal size underscore the difficulties in implementing the "one-person, one-vote" concept. The courts have countered these problems with decisions that uphold the concept of equal population while allowing for geographic reality.

Equal probability of representation means that all persons, regardless of race or ethnicity, should have an equal chance of being elected or electing someone of their choosing. Gerrymandering is one method frequently used to hinder this goal. Since ethnic and racial minorities are among the groups who most commonly have their equal probability of representation abridged, the courts grant special protection to them. Specifically, the three-pronged test from Thornburgh v. Gingles is used

to identify areas where minorities do not have an equal probability of election or representation.

In the academic literature arguments have often been made for compactness and contiguity requirements, the third criterion (Figure 4-1)(Roeck 1961; Schwartzberg 1966; Butler and Cain 1992). Currently all Congressional Districts are required to consist of contiguous territory, but this means nothing more than having all parts of a district connected. Unlike contiguity, compactness is not generally required of Congressional Districts, although odd shape is often cited in court decisions as an indicator of questionable redistricting. Arguments concerning compactness, however, have recently come into question as perception regarding what constitutes "good shape" changes. Conventional wisdom has held that a compactly shaped district is desirable. It is argued that people who live close together generally have much in common and tend to coalesce as a group. This line of thinking argues that compact districts are likely to be areas with strong communities of interest.

Compact districts do not always lead to cohesive constituencies. A perfectly square or circular district in a mountainous or riverine region might group

populations that are alienated from one another by ridges or rivers. Each of the communities is likely to have more in common with those who share the same valley or river than with those across the next ridge. In much the same way, transportation routes, demographic characteristics, and cultural values play important roles in creating unified communities; perhaps as much (or more in some cases) as does geographic proximity. Ideal shape may include long narrow areas that draw people together by such characteristics. Compactness and contiguity currently have one other role in redistricting. The Thornburgh v. Gingles decision uses this criterion in the three-pronged test that determines where racial or ethnic minorities face discrimination.

Until 1992, the aforementioned criteria were the only ones required at the federal level for Congressional redistricting plans. Since the Court's decision in Shaw v. Reno, it is illegal to have a district in which the only unifying characteristic is race. With this decision, new importance was given to Morrill's fourth criterion, integrity of communities of interest. Since 1992, several black-majority districts, including North Carolina's Twelfth, have faced court challenges on the grounds that they fail this new test. Therefore, search

for communities of interest, or unifying factors, is an important part of the test employed in this study. Academics had suggested the desirability of creating districts with strong communities of interest before the Supreme Court introduced the idea in Shaw. In Political Redistricting and Geographic Theory, Morrill argues that communities of interest are essential to any redistricting plan if the districts are truly expected to serve as vehicles for effective political participation:

> The last decade's ever greater emphasis on numerical equality has ... tended to be one of concentration on population statistics and computer manipulation. Traditional ideas of intense voter identification with electoral districts have eroded. Electoral districts are viewed more and more as changeable, convenient vessels for the execution of elections than as units possessing a collective sense of stake. Meaning is being stripped from these territories, as they are laid out or changed without regard to traditional areas with which people identify. Geographers should argue strenuously against dehumanization of political districts, not out of a sense of nostalgia or of resistance to equality, but because they know how important a sense of community is to participation and a sense of well being. Citizens vote, in part, according to their identification with various interests, for example, religious values, occupation, class, or rural or urban orientation. (Morrill 1981:23)

A district with strong communities of interest is more likely to have a constituency with a common set of goals and needs. In such districts, the Representative is more likely to reflect the beliefs of the majority of the constituents.

Maintaining strong communities of interest is particularly important in majority-black electoral districts such as North Carolina's Twelfth District, not only because it is legally required by Shaw v. Reno. Many African-American voting rights advocates argue that members of other groups frequently do not have similar political concerns. Only when blacks are capable of having an effective political voice will those concerns be met. However, while being black usually correlates with some particular political interests, such as civil rights, it certainly does not dictate all of a voter's beliefs.

To discover how two districts can be majority-black but radically different in social and economic composition the First and Twelfth Congressional Districts of North Carolina are compared (Table 4-1). While these districts have almost identical percentages of African-American population, they are not nearly so similar in the remaining demographic characteristics. For instance,

Table 4-1: Comparison of North Carolina's 1st and 12th Congressional Districts

District	Percent Black	Percent Urban	Education Quotient	Per Capita Income	Housing Quotient
NC's 1st	57.25887	41.9032	1.872208	$8,923.27	63.0112%
NC's 12th	56.62543	86.3585	2.019518	$10,877.86	52.8959%

Source: North Carolina Legislature; U.S. Bureau of the Census

the two districts vary dramatically in the percentage of their populations which is urban (42% in the First versus 86% in the Twelfth). Therefore, it would seem reasonable that the populations of these districts would differ on political issues that disproportionately affect either urban or rural areas. The Twelfth's population is probably less likely to be in support of government farm subsidies, than the population of the First. In much the same way education, housing status and other demographic characteristics are equally likely to create differences in political interests.

Even if the Court had not decided in Shaw v. Reno that majority-minority districts must have unifying factors in addition to race, it seems reasonable to argue that districts should have them anyway. Without these additional unifying factors, majority-minority districts, while giving a greater electoral voice to blacks, would create such a splintered constituency that their populations would be unable to agree on almost any political issue.

The remaining five criteria are normative goals which are not specifically required in Congressional redistricting (Figure 4-1). The fifth and sixth criteria, representation of political units and integrity

of political boundaries, note that ideally a Congressional District should have smaller political jurisdictions (e.g., counties, municipalities) nested within it. Whenever possible, district boundaries should not divide smaller jurisdictions. These criteria are simply an extension of the communities of interest goal. One of the factors that can bind people together is geographic location. Furthermore, many political decisions, such as appropriations for a road or school, are often tied to location. It is not surprising that people identify themselves by the local communities in which they live. These criteria are used as a community of interest goal in the project's testing.

Criterion seven, the desire to alter the existing system as little as possible, is also an extension of community of interest. People who remain in the same district decade after decade are more likely to identify with it than voters who are shifted from district to district. The final criterion, reduction of political gerrymandering, has goals similar to equal probability of representation. The primary difference is that redistricting plans may discriminate against voters based on their party affiliation but not their race. Recent court decisions indicate that the political

gerrymandering criterion, like equal probability of representation, may become a requirement rather than an ideal (Davis v. Bandemer 1986).

Butler and Cain provide another list of redistricting goals (Figure 4-2). Their goals are similar to those of Morrill but are grouped somewhat differently. Butler and Cain divide their goals into two groups, those which impact the form of districts and those which influence outcome, while Morrill groups his criteria according to the academic disciplines in which they originated. The compatibility of the redistricting lists is apparent upon inspection. For instance, Butler and Cain's first goal is similar to Morrill's first Constitutional criterion, while Butler and Cain's goals two and three are examples of Morrill's community of interest criterion. Finally, Butler and Cain's goals involving outcome are analogous to Morrill's equal probability of representation criterion.

Since this project is concerned with determining the Constitutionality of North Carolina's Twelfth Congressional District in light of Shaw v. Reno, it is expedient and appropriate to focus analysis on Morrill's equal population and community of interest criteria.

Redistricting Considerations Involving Form

1. Equal Numbers. Congressional districts should be as equal in number as possible.
2. Natural Frontiers. Congressional districts should conform, where possible, to local boundaries, communities of interest, and lines of communication.
3. Compactness and Contiguity. Congressional districts should be as geographically compact as possible, and no part should be completely unconnected with the rest of the district.

Redistricting Considerations Involving Outcome

4. Party Fairness. Congressional districts should be drawn to be as fair as possible between parties.
5. Ethnic Fairness. Congressional districts should be drawn so that ethnic or other minorities have an equitable chance of representation.
6. Party Competition. Congressional districts should foster party competition and alternation.

Figure 4-2: Butler and Cain's Ideal Redistricting Goals

Source: Congressional Redistricting: comparative and theoretical perspectives (1992:65-66)

They are federally mandated redistricting requirements, and, as Butler and Cain note, they involve district form.

The third federal redistricting requirement, equal probability of representation, is not included in the testing for two reasons. First, as noted by Butler and Cain, it is a goal involving outcome. To prove the existence of illegal gerrymandering on the basis of outcome criteria would require studying post-redistricting election results to develop voting patterns and histories. Unfortunately, since litigation challenging the legality of a district is usually initiated immediately after a redistricting plan is enacted, as in Shaw v. Reno, most testimony involves issues of district form rather than outcome because answers regarding the latter are not quickly known. A second reason that equal probability of representation testing is not included in this project is the assumption that the Twelfth is in accord with this requirement. It was created as part of relief for past racial injustice and it was reviewed and endorsed by the Department of Justice.

This chapter has discussed redistricting criteria and goals as they have been defined by the academic and legal communities. Three redistricting requirements are

federally mandated. Districts must be equal or nearly equal in population, ethnic minorities should have an equal probability of representation, and districts should have some community of interest other than race. Is North Carolina's Twelfth well constructed for these requirements? Clearly the Twelfth is in accord with the equal probability of representation. It was precleared by the Department of Justice. To determine the Twelfth's level of conformity with the other federal requirements, additional analysis is conducted in Chapter 5.

Chapter 5

North Carolina's Twelfth v. Congress: Testing the Constitutionality of an Electoral District

Is North Carolina's Twelfth Congressional District Constitutional in light of Shaw v. Reno? Answering this question hinges on determining the Twelfth's construction for equal population and communities of interest compared with other Congressional Districts. This chapter presents a methodology and results obtained from testing North Carolina's Twelfth Congressional District for these two federal requirements against 108 other districts sampled from four comparison groups. T-tests help determine whether the Twelfth district is significantly more gerrymandered than other Congressional Districts. T-scores are also employed to determine whether the Twelfth is significantly more gerrymandered than the average for each district group.

Choice of Comparison Districts

The statistical analysis compares North Carolina's Twelfth District with 108 of the 435 Congressional Districts. The 108 districts are divided into four comparison groups: other North Carolina districts (11 districts), other black-majority districts in the census South (19 districts), a random sample of districts from the census South (50 districts), and a random sample of districts from the United States (50 districts).[1] Figure 5-1 shows the location of the districts in the comparison groups. Several districts are included in more than one study group. The Southern and United States sample districts were randomly selected. Census sections and subsections are represented in approximate proportion to their number of Representatives in Congress (Table 5-1).

Data for Statistical Analysis

Statistical calculations in the analysis are made using data collected by the United States Bureau of the Census as part of the 1990 decennial census and published in Congressional Districts of the 103rd Congress. The data provide detailed socio-economic characteristics for

[1] The Census South as defined by the United States Bureau of the Census includes: Delaware, Maryland, Virginia, West Virginia, North Carolina, Tennessee, Kentucky, Arkansas, Oklahoma, Texas, Louisiana, Mississippi, Alabama, Georgia, South Carolina and Florida.

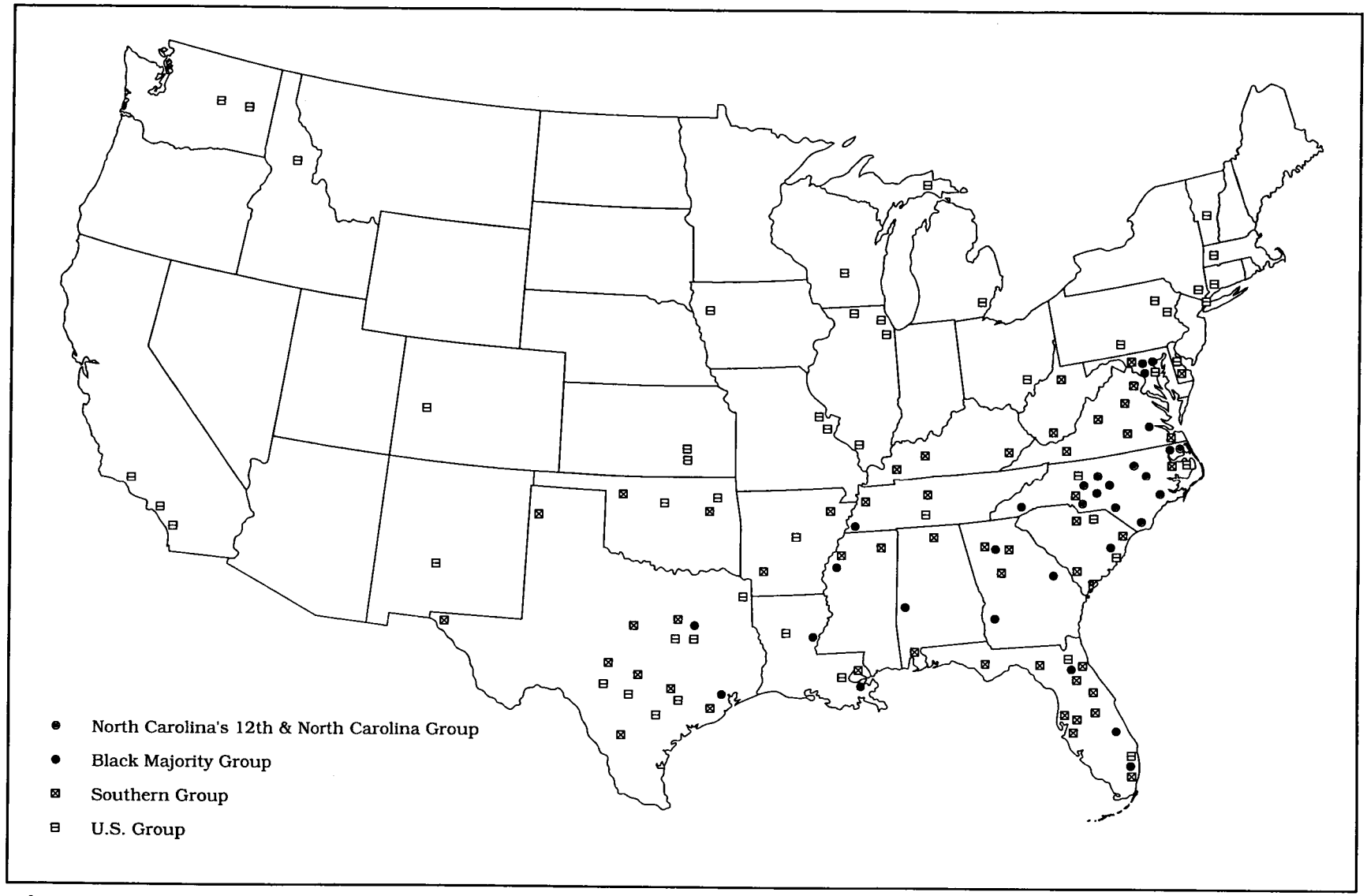

Figure 5-1: Distribution of Study Sample Districts.

Table 5-1: Distribution Of Districts in the Southern and United States Groups

Sub-Region or Region	Number Districts in Sub-region/Region	Number Districts in Sample	Percent of Sub-region's or Region's Districts
Southern Comparison Group			
South Atlantic	75	28	37.3%
East South Central	27	8	29.63%
West South Central	47	14	29.79%
United States Comparison Group			
South	149	21	14.09%
Northeast	88	9	10.23%
Midwest	105	12	11.43%
West	93	8	8.6%

each Congressional District at the county level. Data are provided for the portion of a county's population that resides within a particular Congressional District. A specific county's data may be split among several Congressional Districts.

Defining the Six Batteries of Tests

As discussed in Chapter 4, current federal legal interpretation requires all Congressional Districts to meet the following criteria: (1) districts have nearly equal population, (2) districts allow equal probability of representation for minorities, and (3) districts have unifying characteristics, "communities of interest," beyond race. Although in the early 1990s, these were the only uniform federal redistricting criteria, specific plans may have additional state or judicially mandated criteria.

This study tests for equal population and community of interest requirements. It is assumed that the Twelfth District meets the equal probability of representation requirement since it was created to appease federal concerns about past racially discriminatory gerrymandering. The testing of North Carolina's Twelfth

for equal population and communities of interest is divided into six batteries (Table 5-2).

The first battery tests the equal population requirement, Morrill's first criterion and Butler and Cain's first goal, while the other five batteries test the communities of interest requirement, Morrill's fourth criterion and Butler and Cain's second goal. The first community of interest battery looks to determine whether any attempt was made to nest entire counties within Congressional Districts. This corresponds to Morrill's fifth criterion and Butler and Cain's second goal. The remaining four communities of interest batteries look at socio-economic characteristics such as average level of education, percent of population that lives in owner-occupied housing, percent population urban, and per capita income. These socio-economic tests correspond with Morrill's fourth criterion and Butler and Cain's second goal. Each of the batteries contain four tests. The chosen variables have been identified by the Supreme Court as being important factors in creating district cohesion and communities of interest.

Table 5-2: Variables Used in the Statistical Analysis

Legal Requirement	Characteristics to be Analyzed
One Person - One Vote from Reynolds v. Sims	Equal Population of Districts
Equal Probability of Representation from Thornburgh v. Gingles	Not Applicable (Twelfth already precleared by Federal Department of Justice)
Community of Interest from Shaw v. Reno	Political Characteristics a. Political Boundary Socio-economic Characteristics b. Educational Attainment c. Percent Population Urban d. Proportion of Homeownership e. Per Capita Income

Use of the T Test Statistical Tool

The primary statistical test used in this project is a two-sample t-test for comparing two means (Figure 5-2). This statistical measure is a slight modification of the Student's t-test. It is parametric in nature and is applicable only to data measured on an interval scale.[2] "The null hypothesis of Student's t-test is that two sets of data are random samples from a common, normally distributed population" (Ebdon 1985:61). A normally distributed population is one in which most members have observations that coalesce around the groups' mean, with ever fewer observations recorded farther from the mean.

In this project a one tail t-test is used to search for significant statistical difference between North Carolina's Twelfth District and the four comparison groups. Twenty-four tests are performed, divided into six batteries consisting of four tests each.

T-test results, t, are interpreted using a chart of "critical values" (Appendix D). Each critical value represents a range of values for t, within which one can expect to find a certain percentage of observations from the general population. This certain percentage of observations is referred to as the confidence level. The

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[2] "Measurement on an interval scale consists of allocating a number to an individual [district] to indicate its precise position along a continuous scale" (Ebdon 1977).

$$t = \frac{\overline{X1} - \overline{X2}}{\sqrt{\frac{S1^2}{n1} + \frac{S2^2}{n2}}}$$

t = the t-test result
(compared against a critical t-value)

$\overline{X1}$ = the mean of the statistical value to be tested (North Carolina's 12th District)

$\overline{X2}$ = the mean of the group to test against (the Southern, black majority, North Carolina, or United States comparison groups)

S1 = the sample standard deviation of the statistical value to be tested (in this thesis always zero)

S2 = the sample standard deviation of the group to test against

n1 = the number in the group of the statistical value to be tested (in this study always 1)

n2 = the number in the group to test against

Figure 5-2: A Two-sample t-test for Comparing Two Means

95% confidence level was used for tests performed in this project. Since certainty in the distribution of a population varies directly with population size, the critical values for a specific confidence level vary according to population size. To determine the most appropriate critical value for a specific confidence level, one must calculate the degrees of freedom for a sample size. The degrees of freedom for a specific sample is assumed to be n2 - 1, where n is equal to the sample size.

In comparisons between North Carolina's Twelfth and other groups of districts, if the t is outside the acceptable range, as defined by the appropriate critical value, the Twelfth is considered to have failed the t-test.[3] Failure indicates that the Twelfth is statistically different from the group and therefore is significantly more gerrymandered.

Method and Results of the Test for Equal Population

Population equality, while impossible when seeking perfect statistical parity, is the "spirit," if not the "letter," of the one person - one vote decree from Reynolds v. Sims. Over time, this requirement has been

[3] "Failing" a t-test indicates the null hypothesis of no difference at the 5% level of significance (95% level of confidence) has been rejected.

more strongly enforced as computers permitted greater statistical accuracy in redistricting. However, districts vary in size (Table 5-3). Generally, districts that stray farthest from the national mean for Congressional District size are in states with only one district or states where counties are not divided among districts. Nonetheless, even in these instances variation from the goal of population equity is not great. Failure to achieve equity result in federal demands for further refinement in redistricting until all votes count equally.

Because it is impossible on a national basis for all districts to be an exact size, each state has a different "ideal population." Within each state, it is assumed that all Congressional Districts should have parity in population. An "ideal population" is calculated by dividing a state's population by the size of its Congressional delegation.

After each state's ideal population was determined, each of the 108 sample district's relative deviation from its state's "ideal population" was calculated. These deviations provide the basis, in the t-tests, for comparing the Twelfth with each of the comparison groups. The results of the equal population t-tests indicate that

Table 5-3: Examples of Variation in District Populations

District	Population
Alabama's First	577,226
Arkansas' Second	587,412
Delaware's First	666,168
Florida's Fourth	562,518
Georgia's Third	591,328
Illinois' Eighth	571,530
Kansas' Third	619,439
Kentucky's Second	615,184
Michigan's First	580,956
Mosouri's First	568,285
New Mexico's Second	504,659
North Carolina's Twelfth	552,387
Ohio's Sixth	570,901
Oklahoma's First	524,264
Pennsylvania's Eleventh	565,913
Tennessee's Seventh	541,937
Texas' Twentyfourth	566,217
Vermont's First	562,758
Washington's Fourth	540,744
Wisconsin's Sixth	543,652
U.S. Group Average	568,139

North Carolina's Twelfth Congressional District has less deviation from ideal population than do the average of districts in each of the four comparison groups (Table 5-4). The Twelfth compared best with the Southern (-2.76244) and United States (-2.56372) sample groups, while it did less well compared with other Southern black-majority districts (-1.98689) and other North Carolina (-1.99904) districts. The majority of sample districts did worse than the Twelfth in this battery (Appendix E).

Although North Carolina's Twelfth District deviated less than the majority, all sample districts had relatively small deviations. No comparison group had a mean deviation greater than 1%. This result is not surprising since population equity is a historical requirement for redistricting. However, small deviations do not indicate that the test results are not significant. The fact that the Twelfth deviated less than most sample districts supports the premise that the Twelfth is Constitutionally legal. Furthermore, many of the districts which had no deviation from ideal population were in states with a single district. Examples include Delaware, the District of Columbia and Vermont. Since such districts can have no deviation,

Table 5-4: Results of Equal Population T-tests

Comparison Group	North Carolina	Black Majority	American South	United States
Result of Testing	-1.99904	-1.98689	-2.76244	-2.56372
Critical T-value	1.812	1.740	1.676	1.676

that the Twelfth did almost as well is even more impressive.

Method and Results of the Political Boundary Test

The first battery of community of interest tests is concerned with the political characteristic of nesting entire counties within Congressional Districts. As was noted in Chapter Four, an ideal is that everyone in a particular county should live in the same Congressional District (Morrill 1981; Butler and Cain 1992). Counties that lay wholly within the 108 sample districts and the Twelfth were identified. These counties populations were aggregated, and the percentage they constituted of a district's population was calculated. The percentage ranged from 0%, which meant that none of a particular district's population lived within wholly-contained county or counties, to 100%, where all of a district's population lived within wholly contained county or counties. A percentage approaching 0 is considered to be exceptionally gerrymandered, while 100% is completely ungerrymandered. The exact percentage that constitutes excessive gerrymandering depends upon the specific comparison group. It is calculated from the t-test's

critical values. The district population percentages were used as data for the four t-tests.

Unlike the equal population test, in the political boundary analysis, t-test results greater than zero indicate that North Carolina's Twelfth is better constructed than most districts in a comparison group. Test results less than zero indicate that the Twelfth has less nesting of counties within it than do most other districts.

The results of the political boundary analysis indicate that the Twelfth District is badly gerrymandered (Table 5-5). The Twelfth performed more poorly in this battery than in any other test conducted. The Twelfth appears most gerrymandered when compared with the Southern and United States groups. It does somewhat better when compared with the Southern black-majority and North Carolina groups. However, the Twelfth is not the only district poorly constructed with regard to the goal of nesting complete counties within Congressional District boundaries. Table 5-6 lists the 19 sample districts which scored as badly as the Twelfth. One might argue that, although the Twelfth could be much better constructed, it is not gerrymandered enough to

Table 5-5: Results of Political Boundary T-tests

Comparison Group	North Carolina	Black Majority	American South	United States
Results of Testing	-5.57254	-4.36428	-11.0156	-13.4127
Critical T-value	-1.812	-1.740	-1.676	-1.676

Table 5-6: Sample Districts With No Population Residing in Wholly Contained Counties

State and District
Florida's Third
Florida's Eighth
Florida's Ninth
Florida's Twenty-third
Georgia's Fifth
Illinois' Eighth
Louisiana's Second
Maryland's Second
Maryland's Third
Maryland's Fourth
Massachusetts Sixth
New Mexico's Second
New York's Sixth
North Carolina's Ninth
North Carolina's Twelfth
Texas' Twenty-sixth
Texas' Thirtieth
Virginia's Second
Virginia's Third

warrant redistricting since very few of the districts listed in Table 5-6 face court challenges.

An explanation for the Twelfth's poor results is found in the initial assumptions of political nesting. Since none of the counties that comprise the Twelfth is wholly within the district's borders, the district receives the score of 0%. Not surprisingly, the districts that did well in this battery are from states where counties are not split.

Another explanation for the poor score involves the anomaly that some districts are located in one county. Some urban counties have large enough populations that one or more districts can be created within them. Such districts were assigned a score of 100%. Table 5-7 lists the sample districts that received a perfect score for this reason. Although these districts scored better than the Twelfth in the political boundary test, it would be hasty to conclude that their Constitutionality is more defensible. Some of these districts may be just as badly constructed as the Twelfth with regard to the nesting of smaller political units. Since this battery used the county as its level of analysis, rather than a municipality, township, or precinct, gerrymandering of these "perfect score" districts may be undetected.

Table 5-7: Districts in the Political Boundary Test Located in One County

State and District
California's Twenty-eighth
California's Thirty-sixth
Connecticut's Fourth
Florida's Tenth
Florida's Eleventh
Florida's Seventeenth
Illinois' Fifth
Michigan's Fourteenth
New York's Sixth
Tennessee's Ninth
Texas' Tenth
Texas' Sixteenth
Texas' Eighteenth
Texas' Twentieth

Socio-economic Communities of Interest Tests

The final four batteries of tests evaluate the Twelfth North Carolina Congressional District against the comparison groups on the basis of community of interest variables. The four variables are: percentage of population urban, percentage of the population in owner occupied housing, mean level of educational attainment, and per capita income.

In analyzing socio-economic homogeneity, a district is not well constructed just because it is completely urban or completely rural. Rather, the goal is to include areas that are similar to one another. For instance, two districts may be 50% urban. In the first district, half the counties are 100% urban while the other half are 100% rural. In the second district all counties are 50% urban and 50% rural. Of the two districts, the latter is considered to be preferable.

To test homogeneity, data for each of the four socio-economic characteristics were collected at the county level for the 109 districts. A mean for every county was calculated for each variable. Standard deviations were calculated on a district-wide basis for each socio-economic characteristic (Figure 5-3). The

Ideal State's First Congressional District

Counties in District	Cnty Pop	District Pop in Cnty	Mean Income of Cnty's Dist Pop
Casper	65,000	65,000	$13,500
Dekalb (part)	125,000	100,000	$10,000
Franklin	12,000	12,000	$29,000
Jones	375,000	375,000	$21,000
Long (part)	95,000	55,000	$14,500
Total	672,000	607,000	

The District has

n		X
65,000	at	$13,500
100,000	at	$10,000
12,000	at	$29,000
375,000	at	$21,000
55,000	at	$14,500

607,000 total n

The Standard Deviation is = $4666.07

n = counties' population residing in district
X = phenomena mean (i.e. per capita income) for population n

$$\text{Standard Deviation} = \sqrt{\frac{n\sum X^2 - \left(\sum X\right)^2}{n(n-1)}}$$

Figure 5-3: Method For Calculating Congressional District Standard Deviations for Socio-economic Community of Interest Tests

standard deviations were calculated by assigning each person within the district the mean for the county in which he or she lived and then calculating the standard deviation using each district's population. This method controlled for population size, ensuring that standard deviations for an entire district were influenced in proportion to a county's population within the district.

Standard deviations were used to indicate the degree of homogeneity of each district's population. A deviation close to zero indicates that a district's population is similar. Greater deviations indicate a less homogeneous population. The smaller the standard deviation, the less gerrymandered a district on that criterion. District standard deviations were used as input for the t-tests.

In the four communities of interest batteries, a negative t-test indicates that the Twelfth North Carolina Congressional District is less gerrymandered than the comparison group. Positive scores indicate the Twelfth is more gerrymandered, with scores greater than the critical value indicating the Twelfth is significantly more gerrymandered than the comparison group.

One problem with this method is that districts which are entirely within one county automatically receive a

standard deviation of zero. Because three of the four comparison groups, with the exception of the North Carolina group, include several such districts, the likelihood that the Twelfth District will appear statistically to be more gerrymandered is increased. As with political boundary test, a certain degree of gerrymandering may go undetected because of the scale at which the analysis was performed. In these three comparison groups, the mean standard deviations used for the t-tests are artificially low.

The Educational Attainment T-Tests

The decennial census was used to obtain data about the highest level of education attainment for persons 25 years and older. The data were aggregated for each county by the method shown in Figure 5-4 then by the method in Figure 5-3. Standard deviations were then calculated to conduct t-tests. The results of the t-tests are varied (Table 5-8). North Carolina's Twelfth appears to be excessively gerrymandered when compared with the Southern black-majority and United States groups. However, the t-test results for the Twelfth in these cases were just barely beyond the critical t-value. Furthermore, the results for the Southern group are

Educational Attainment	Educational Attainment Index	Number of Persons	Persons X Attainment
Less than Nine Years	1	2,767	2,767
Some High School No Diploma	1.5	4,204	6,306
High School Diploma	2	5,224	10,448
Some College No Degree	2.25	2,237	5,033.25
Associates College Degree	2.5	805	2,012.5
Bachelors College Degree	3	738	2,214
Some Graduate School	4	186	744
	County Total	16,161	29,524.75

$$\text{County Average} = \frac{29{,}524.75}{16{,}161} = 1.8269$$

Figure 5-4: Method for Conversion of Census Education Data into a County Average, Alamance County, North Carolina.

Table 5-8: Results of the Socio-economic Communities of Interest T-tests

Comparison Group	Results from T-Tests Education	Urban	Housing	Income	Critical T-Value
North Carolina	-3.144	-5.316	2.067	-4.319	1.812
Majority Black	2.002	0.578	1.359	-0.782	1.740
American South	0.110	-0.315	5.181	-3.362	1.676
United States	2.165	1.157	6.263	-1.984	1.676

within the expected and reasonable range, while the results for the North Carolina group indicate the Twelfth is significantly less gerrymandered than the other districts in the state. Overall, most of the 54 districts that are not contained wholly within one county scored worse than the Twelfth (Appendix E).

As discussed in chapter 4, race plays an important role in defining communities of interest but race is by no means an overriding factor. The results from the education attainment test battery provide further evidence of this. If race were strongly correlated with other socio-economic factors, the mean values for the Twelfth should always be similar, or at least not significantly different from, the means for the black-majority district group. However, education attainment varied much more among voters in North Carolina's Twelfth than in other districts. The results reinforce the point that African Americans are a diverse and complex population. That the Twelfth is statistically different from the black-majority comparison group indicates a greater variation in educational attainment among the Twelfth's voters than is usually the case in majority-minority districts. Looking for communities of interest is important in helping to create strong minority-

electoral districts, rather than assuming that all black citizens think alike and have identical interests.

The Urban T-test

Data for the urban battery of t-tests were collected, from the census. The percent of population urban was calculated for each county. These county percentages were aggregated into district standard deviations, according to the community of interest testing method (Figure 5-3). These district standard deviations were used to perform the t-tests. The results suggest that the Twelfth District is well-constructed with regard to percent of population urban (Table 5-8). The Twelfth falls within the expected range of values for the Southern, black-majority, and United States comparison groups. Furthermore, the Twelfth is significantly less gerrymandered than other North Carolina Congressional Districts. Judging from the test results, most of North Carolina's other districts are more gerrymandered than most other Congressional Districts (Appendix E).

The Proportion of Homeownership T-test

For the proportion of homeownership test, data on the number of persons living in owner occupied housing were calculated for each county. The percentages were used to calculate district standard deviations for t-tests (Figure 5-3). The Twelfth's results for this test were mixed (Table 5-8). When compared with the United States and South groups, the scores indicate that the Twelfth is significantly more gerrymandered. The Twelfth also appeared significantly more gerrymandered than most other North Carolina districts, although the t-test results were just barely beyond the critical value. In comparison to the black-majority group, the Twelfth falls within the range of expected values and is not excessively gerrymandered.

The Twelfth has a large standard deviation for owner occupied housing (Appendix E). Within the District, percentages vary from a high of 79 of population living in owner-occupied housing in Orange County to 45 in Mecklenburg County. Ideally, the redistricters should have attempted to include a population that was more homogeneous with respect to this variable. However, while the Twelfth is not perfectly created with regard to home ownership, the standard deviation is not excessive

enough to warrant a legal challenge. Test results indicate that several of the other North Carolina districts also would fail the home ownership test. The Twelfth is only the third worst-constructed district in North Carolina. The Twelfth is not the worst district in the country either. It is 84th among the 109 sample Congressional Districts (Appendix E). Yet, the Constitutionality of districts with lower scores has not been questioned.

While homeownership is an important variable in developing a voter's political interests, the battles between homeowners vs. renters (e.g. property tax rates) are usually local rather than federal issues. While housing status impacts the development of political cohesion, it should be scrutinized most carefully in redistricting plans for local offices rather than Congress.

The Per Capita Income T-Test

For the per capita income battery, no manipulation of the census data was required prior to calculation of standard deviations and t-tests. The results of the per capita income tests strongly indicate that the Twelfth North Carolina Congressional District is not excessively

gerrymandered (Table 5-8). The t-values are all negative, indicating the Twelfth is less gerrymandered than most districts in all of the four comparison groups. The Twelfth is within the normal range of districts when compared with the Southern black-majority group. When compared with the United States, Southern, and North Carolina groups, however, the Twelfth is less gerrymandered to such a degree that its difference is statistically significant. The statistical difference was dramatic enough in the Southern and North Carolina groups that the scores constituted several standard deviations of separation from the critical t-value.

Conclusions

North Carolina's Twelfth Congressional District passed 15 of the 24 t-tests that were conducted. Even in the batteries where the Twelfth's performance was poorest, there were other districts in the group of 109 whose scores were equally as low, or lower. The Twelfth was far from being the "worst" district in any variable. The test results indicate there are no compelling statistical reasons to invalidate the Constitutionality of North Carolina's Twelfth Congressional District.

Chapter 6

Beyond Shaw: Conclusions and Reflections on the Future

This thesis has two goals. First, it provides the context for discussion of North Carolina's Twelfth District by reconstructing the history of the struggle for African American voting rights and tracing the events that led to the Department of Justice's call for the creation of the Twelfth and the subsequent filing of Shaw v. Reno by five Durham County voters. It is clear that the Voting Rights Act, on its thirtieth anniversary, is among the most important pieces of Congressional legislation enacted in the last half of the twentieth century. Certainly the act is the most important legislation affecting minority electoral rights. It has provided a workable system to investigate and resolve voting discrimination problems.

The second goal is to analyze North Carolina's Twelfth Congressional District regarding the communities

of interest test from Shaw, and to determine whether the Twelfth is excessively gerrymandered. The results of the analysis indicate that the Twelfth is not in violation of Shaw and should not be considered illegal.

Summary of the Study's Findings

Is North Carolina's Twelfth Congressional District perfectly constructed? Certainly not. The analysis in the preceding chapter indicates that according to some tests, the Twelfth is significantly more gerrymandered than districts in the comparison groups. The Twelfth failed all four of the political boundary tests. However, "excessively gerrymandered" implies much more than an occasional failure of certain tests. To interpret the Twelfth as unreasonably constructed, the district should fail the majority of the tests. This is not the case. The Twelfth passed a majority (15 of 24) of the tests. In the batteries of tests for equal population, percent urban population, and per capita income, the Twelfth does not have a single failure. The results demonstrate that the district has a number of communities of interests that are as strong, or stronger, than the average comparison district.

Clearly, the Twelfth North Carolina Congressional District could be better constructed. However, that complaint could be lodged against the majority of Congressional Districts. Redistricting plans are created by groups of individuals who have political and personal desires and goals. The federal courts and Department of Justice understand this and even sanction it. Gerrymandering, in and of itself, is not illegal. Therefore, the concern is not to determine whether gerrymandering exists but to find unreasonably or excessively gerrymandered districts. Based on that measure, the Twelfth North Carolina Congressional District should not be facing challenges alleging that it was illegally drawn.

There are only three federally and Constitutionally mandated requirements applicable to all redistricting plans: (1) The plan must produce districts of equal or nearly equal size (Reynolds v. Sims 1964). (2) The plan must attempt to provide equal probability of representation for racial and ethnic minorities (Thornburgh v. Gingles 1986). (3) Due to the Court's decision in Shaw, districts must have additional unifying factors beyond race (Shaw v. Reno 1993). The analysis in this study indicates that with regard to requirements (1)

and (3) North Carolina's Twelfth District is as well constructed as the majority of Congressional Districts in the United States. One must assume that the Twelfth is within the auspices of the second requirement, since it was created so that North Carolina would not be in violation of it.

The Problem of Shape

The Twelfth is, on its face, oddly constructed. Justice O'Connor noted in Shaw that "reapportionment is one area where appearances do matter" (Shaw v. Reno 1993). Judicial comments such as this and the past emphasis in geographic research on tests for district compactness would seem to demand scrutiny of the shape of the Twelfth Congressional District. Although Justice O'Connor clearly holds a personal belief that shape is important, there are no federal requirements regarding shape of a political area. Furthermore, in recent years the belief that compact districts are inherently less gerrymandered than ones that are not compact has come under attack (Morrill 1981, Taylor and Johnston 1979, Nagel 1965, Dixon 1968). Morrill believes that "gerrymandering might occur even with supposed non-partisan application of compactness criteria" (Morrill

1981:21). Flaherty and Crumplin note that most, if not all, methods for testing compactness have inherent shortcomings, many of which are glaring (Flaherty and Crumplin 1992). An additional shortcoming can be added. Ideas about what constitutes "good shape" are rapidly changing due to innovations in transportation, communication, and other technology.

The Twelfth is an excellent example of a district that, due to transportation and communication advances, should not necessarily be considered misshapen. The Interstate 85 corridor forms a backbone for the district and for the North Carolina Piedmont. In fact, the Interstate has helped coalesce the Piedmont's cities into a single conurbation. Decades ago, before technological improvements, such conurbations did not exist. A district at that time analogous to the Twelfth could not have drawn upon the similarities that are a byproduct of such a coalescence.

Under current legal standards in redistricting, it is necessary to consider compactness and contiguity only when looking for substantial minority communities that might allow for the creation of majority-minority districts (Thornburgh v. Gingles 1986). However, the federal courts have determined that compactness is

actually nothing more than contiguity because what redistricters must look for are continuous swaths of minority population. Webster hints that in the 1990s increased importance might be given to the legal standing of compactness (Webster 1993). However, while compactness might increase in importance in the future, during recent years the underpinnings of its geographic support have been rotting.

Any decrease in compactness of Congressional Districts due to the creation of majority-minority districts has been accompanied by a substantial increase in the election of minority Representatives, including 13 new black members of Congress since 1992 (Voting Rights Review, Spring 1993). Because the sole federal requirement for compactness seeks to increase election of minority candidates, decreasing compactness has not violated the federal requirement. It has furthered its purpose.

Future Possibilities of the Testing Methodology

This thesis develops a practical method by which one electoral district may be compared with others. Prior to this study, geographers and other academics argued Congressional Districts needed communities of interest,

but a workable methodology for comparing a district with others had not been developed. This study fills that void by creating such a method. While the methodology as implemented in this study identified excessive gerrymandering, three improvements could be made prior to future use. First, instead of using data from the county level, the areal unit should be reduced to the block group, block, or census tract. This would improve results in the community of interest tests by preventing districts that are located within one county from achieving perfect "ungerrymandered" scores. A second improvement is to compare the study district, not just with several sample groups, but with all Congressional Districts. This will remove any opportunity for statistical error in deciding whether the study district is excessively gerrymandered, since there will be no question as to whether the sample districts chosen are truly representative. Third, the number of demographic criteria used in the communities of interest tests should be increased. A larger number will give greater insight into the demographic composition of the districts.

While time and financial constraints precluded the use of such modifications in this study, their application would not have led to a different conclusion

with respect to the North Carolina Twelfth Congressional District's Constitutionality. The lack of modification tended to distort the test results in a manner which made the Twelfth appear to be more gerrymandered, rather than less. The Twelfth is not located wholly within one county and, therefore, did not receive perfect raw scores on its communities of interest tests, while some of the comparison districts did. Refinements to the method developed in this thesis should increase the Twelfth's performance in the batteries of tests.

The Supreme Court's Role

If it is reasonable to assume, based on test results, that numerous other Congressional Districts are more gerrymandered than the Twelfth, then why are the Twelfth and certain other majority-minority districts the only ones in litigation? The answer seems to be that the plaintiffs are really concerned with excessive gerrymandering only in a racial sense. The concern is whether past legislative and judicial civil rights actions have created a nation in which federal aid to minorities results in unreasonable reverse discrimination.

The Supreme Court chose not to focus on the issue of reverse discrimination. Instead the Court created a standard for determining when a district is excessively gerrymandered. However, appearances can be deceiving. It is quite plausible, considering Justice O'Connor's comments regarding shape, that the Court believes majority-minority districts will usually fail the communities of interest test from Shaw and will, therefore, be illegal. If this is the case, then the Court, without formally discussing the issue of reverse discrimination, might be attempting to indicate that the Voting Rights Act should not be used to mandate the creation of majority-minority districts. The Court's recent decision in Miller v. Johnson seems to support this contention. Justice Kennedy noted, "In using [the Voting Rights Act] to require States to create majority-minority districts wherever possible, the Department of Justice expanded its authority under the statute beyond what Congress intended and we have upheld" (Miller v. Johnson 1995). He added that using race as the "predominant" factor in creating electoral districts is no longer legal (Miller v. Johnson 1995). Finally, the absence in the Miller decision of any discussion regarding the Thornburgh v. Gingles decision or the 1982

amendments to the Voting Rights Act, which support Department of Justice mandates for majority-minority districts, is telling.

Why might the Supreme Court have chosen not to discuss formally the issue of reverse discrimination in Shaw? The massive turnover in the Court's membership since the election of Ronald Reagan in 1980 provides a clue. Most of the justices who have been replaced were important in developing the Court as a vanguard for civil rights change. The new members often seem more interested in judicial restraint than they do in assertive decisions. They seem to focus on interpreting rather than creating law. Furthermore, the changed composition of the Court has been accompanied by a rise in support for increased states' rights. These ideological changes support the notion of civil rights improvement through legislative change, rather than additional judicial decisions. In this light, it does not seem strange for the Court to create a new test, such as that in Shaw, through legal interpretation rather than speaking to the primary complaint and formulating new judicial law. If this is the case, the Court has relinquished its role as the leader in civil rights change that began with the Brown decision in 1954.

Whatever the Court's reasons, its decision in Shaw does not indicate whether the Voting Rights Act will continue to be used as a vehicle to implement civil rights change. This question is a vital one, since this issue is likely to grow in importance during the next fifteen years.

African Americans endured a long and difficult struggle in the acquisition and defense of their voting rights. That history can be interpreted in two ways. One interpretation is that, although progress has been made in improving electoral rights, some whites manage to create new methods to negate or minimize that progress. This viewpoint argues that only through continued federal involvement can minorities be certain that their electoral rights will be protected. A second interpretation argues that progress has been made in improving and protecting the electoral rights of minorities. Several important civil rights bills enacted since the late 1950s have improved minorities' access to the ballot box and may be tilting the electoral playing field toward reverse discrimination. Proponents of such a view cite data such as the increase in black Mississippians registered to vote from 6.7% in 1964 to 64.1% in 1979 (Parker 1990).

In light of the Supreme Court's apparent abdication of their earlier role as a leader in improving civil rights, average Americans have an increased opportunity to influence the question of whether federal support for electoral change should be continued. Recent public opinion, like the Supreme Court, seems to be shifting away from government policies supporting civil rights and racial preferences. This change in opinion is so dramatic that assaults on civil rights legislation have come, not only from the United States Senate majority leader Bob Dole, but even from the Supreme Court. Decisions from the Court's 1995 session that underscore this realignment include Missouri v. Jenkins, a case that reduced federal monitoring of school integration, as well as Miller v. Johnson that eroded support for majority-minority districts. While not fully clear, Miller seems to stand in stark contrast to other Court decisions including Shaw and to legislative action over the past 31 years.

Advocates of Shaw and similar decisions might find hope in the indecisive 5-4 vote in Miller. Justice O'Connor noted in a separate concurring opinion that this decision "does not throw into doubt the vast majority of the Nation's 435 Congressional Districts, where

presumably the states have drawn the boundaries in accordance with their customary districting principles" (Miller v. Johnson 1995). However, the concern is not with the majority of the Nation's 435 Congressional Districts, but rather those majority-minority districts, like North Carolina's Twelfth, that were created by federal mandate. Justice Ginsberg along with Justices Stevens, Breyer, and Souter do form a block that wants to continue support for the progress that has been made over the past 31 years (Miller v. Johnson 1995). Furthermore, the Supreme Court agreed to hear the North Carolina case on remand from Shaw in 1996. Unlike Georgia's Eleventh, the Twelfth's Constitutionality was upheld upon remand to federal district court from Shaw. Whether the Court chooses to maintain the new precedent from Miller or reverse itself, the decision will be monumental.

Miller has started to open the flood gates for additional suits challenging governmentally mandated majority-minority districts. The *Spartanburg Herald Journal* on September 17, 1995 reported that lawsuits challenging the Constitutionality of majority-minority districts in South Carolina, both for the United States and South Carolina Houses, were likely to be filed in

federal district court within the month. No doubt other districts across the South will face similar challenges.

As the Nation reassesses the progress made in civil rights over the past three decades it can only be hoped that citizens will be reasonable and fair before making major changes. In a country that each year becomes more diverse, only through reasonable decisions can we hope to keep from tearing our nation apart. An appropriate conclusion is a remark made by Justice Stevens in his dissenting opinion to Shaw:

> If it is permissible to draw boundaries to provide adequate representation for rural voters, for union members, for Hasidic Jews, for Polish Americans or for Republicans, it necessarily follows that it is permissible to do the very same thing for members of the very minority group whose history in the United States gave birth to the Equal Protection Clause. A contrary conclusion could only be described as perverse (Shaw v. Reno 1993).

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Appendices

Appendix A - A Listing of Congressional Districts by Comparison Group

The Primary Study District

North Carolina's 12th Congressional District

The North Carolina Comparison Group

North Carolina's 1st Congressional District
North Carolina's 2nd Congressional District
North Carolina's 3rd Congressional District
North Carolina's 4th Congressional District
North Carolina's 5th Congressional District
North Carolina's 6th Congressional District
North Carolina's 7th Congressional District
North Carolina's 8th Congressional District
North Carolina's 9th Congressional District
North Carolina's 10th Congressional District
North Carolina's 11th Congressional District

The African American Majority Comparison Group

Alabama's 7th Congressional District
The Delegate from the District of Columbia
Florida's 3rd Congressional District
Florida's 17th Congressional District
Florida's 23rd Congressional District
Georgia's 2nd Congressional District
Georgia's 5th Congressional District
Georgia's 11th Congressional District

The African American Majority Comparison Group

Louisiana's 2nd Congressional District
Maryland's 4th Congressional District
Maryland's 7th Congressional District
Mississippi's 2nd Congressional District
North Carolina's 1st Congressional District
South Carolina's 6th Congressional District
Tennessee's 9th Congressional District
Texas' 18th Congressional District
Texas' 30th Congressional District
Virginia's 3rd Congressional District

The American South Comparison Group

Alabama's 1st Congressional District
Alabama's 5th Congressional District
Arkansas's 1st Congressional District
Arkansas's 4th Congressional District
Delaware's 1st Congressional District
Florida's 2nd Congressional District
Florida's 3rd Congressional District
Florida's 4th Congressional District
Florida's 6th Congressional District
Florida's 8th Congressional District
Florida's 9th Congressional District
Florida's 10th Congressional District
Florida's 11th Congressional District
Florida's 12th Congressional District
Florida's 17th Congressional District
Georgia's 3rd Congressional District
Georgia's 4th Congressional District

The American South Comparison Group

Georgia's 5th Congressional District
Kentucky's 1st Congressional District
Kentucky's 2nd Congressional District
Kentucky's 5th Congressional District
Louisiana's 2nd Congressional District
Maryland's 3rd Congressional District
Mississippi's 1st Congressional District
Mississippi's 2nd Congressional District
North Carolina's 1st Congressional District
North Carolina's 9th Congressional District
Oklahoma's 1st Congressional District
Oklahoma's 6th Congressional District
South Carolina's 1st Congressional District
South Carolina's 2nd Congressional District
South Carolina's 5th Congressional District
Tennessee's 7th Congressional District
Texas' 10th Congressional District
Texas' 14th Congressional District
Texas' 16th Congressional District
Texas' 17th Congressional District
Texas' 18th Congressional District
Texas' 19th Congressional District
Texas' 21st Congressional District
Texas' 26th Congressional District
Texas' 28th Congressional District
Virginia's 2nd Congressional District
Virginia's 4th Congressional District
Virginia's 6th Congressional District
Virginia's 7th Congressional District
Virginia's 8th Congressional District
Virginia's 9th Congressional District

The American South Comparison Group

West Virginia's 1st Congressional District

West Virginia's 3rd Congressional District

The United States Comparison Group

Arkansas' 2nd Congressional District

California's 22nd Congressional District

California's 28th Congressional District

California's 36th Congressional District

Colorado's 3rd Congressional District

Connecticut's 4th Congressional District

Delaware's 1st Congressional District

Florida's 6th Congressional District

Florida's 17th Congressional District

Idaho's 1st Congressional District

Illinois' 5th Congressional District

Illinois' 8th Congressional District

Illinois' 12th Congressional District

Illinois' 16th Congressional District

Iowa's 5th Congressional District

Kansas' 3rd Congressional District

Louisiana's 2nd Congressional District

Louisiana's 6th Congressional District

Maryland's 2nd Congressional District

Massachusetts's 1st Congressional District

Michigan's 1st Congressional District

Michigan's 14th Congressional District

Missouri's 1st Congressional District

Missouri's 2nd Congressional District

New Mexico's 2nd Congressional District

The United States Comparison Group

New York's 6th Congressional District
New York's 18th Congressional District
North Carolina's 1st Congressional District
North Carolina's 7th Congressional District
Ohio's 6th Congressional District
Oklahoma's 1st Congressional District
Oklahoma's 5th Congressional District
Pennsylvania's 8th Congressional District
Pennsylvania's 9th Congressional District
Pennsylvania's 11th Congressional District
South Carolina's 1st Congressional District
South Carolina's 5th Congressional District
Tennessee's 7th Congressional District
Texas' 1st Congressional District
Texas' 11th Congressional District
Texas' 14th Congressional District
Texas' 15th Congressional District
Texas' 20th Congressional District
Texas' 21st Congressional District
Texas' 24th Congressional District
Vermont's 1st Congressional District
Washington's 4th Congressional District
Washington's 5th Congressional District
Wisconsin's 6th Congressional District

Appendix B: A Listing of all African Americans who Have Served in Congress

In the United States Senate

Name	Party & State	Year
Hiram R. Revels	Republican-Mississippi	1870-1871
Blanche K. Bruce	Republican-Mississippi	1875-1881
Edward K. Brooke	Republican-Massachusetts	1967-1979
Carol Moseley Braun	Democrat-Illinois	1993-

In the United States House of Representatives

Name	Party & State	Year
Joseph H. Rainey	Republican-South Carolina	1870-1879
Jefferson F. Long	Republican-Georgia	1870-1871
Robert B. Elliot	Republican-South Carolina	1871-1874
Robert C. DeLarge	Republican-South Carolina	1871-1873
Benjamin S. Turner	Republican-Alabama	1871-1873
Josiah T. Walls	Republican-Florida	1871-1873
Richard H. Cain	Republican-South Carolina	1873-1875; 1877-1879
John R. Lynch	Republican-Mississippi	1873-1877; 1882-1883
James T. Rapier	Republican-Alabama	1873-1875
Alonzo J. Ransier	Republican-South Carolina	1873-1875
Jeremiah Haralson	Republican-Alabama	1875-1877

Name	Party & State	Year
John A. Hyman	Republican-North Carolina	1875-1877
Charles E. Nash	Republican-Louisiana	1875-1877
Robert Smalls	Republican-South Carolina	1875-1879
James E. O'Hara	Republican-North Carolina	1883-1887
Henry P. Cheatham	Republican-North Carolina	1889-1893
John M. Langston	Republican-Virginia	1890-1891
Thomas E. Miller	Republican-South Carolina	1890-1891
George W. Murray	Republican-South Carolina	1893-1895; 1896-1897
George W. White	Republican-North Carolina	1897-1901
Oscar DePriest	Republican-Illinois	1929-1935
Arthur W. Mitchell	Democrat-Illinois	1935-1943
William L. Dawson	Democrat-Illinois	1943-1970
Adam Clayton Powell	Democrat-New York	1945-1967; 1969-1971
Charles C. Diggs Jr	Democrat-Michigan	1955-1980
Robert N.C. Nix	Democrat-Pennsylvania	1958-1978
Augustus F. Hawkins	Democrat-California	1963-1991
John Conyers Jr.	Democrat-Michigan	1965-
William L. Clay	Democrat-Missouri	1969-
Louis Stokes	Democrat-Ohio	1969-
Shirley Chisholm	Democrat-New York	1969-1982
George W. Collins	Democrat-Illinois	1970-1972
Ronald V. Dellums	Democrat-California	1971-
Ralph H. Metcalfe	Democrat-Illinois	1971-1978
Parren H. Mitchell	Democrat-Maryland	1971-1986
Charles B. Rangel	Democrat-New York	1971-
Walter E. Fauntroy	Democrat-Dist of Columbia	1971-1990
Yvonne B. Burke	Democrat-California	1973-1979
Cardiss Collins	Democrat-Illinois	1973-
Barbara C. Jordan	Democrat-Texas	1973-1978

Name	Party & State	Year
Andrew Young	Democrat-Georgia	1973-1977
Harold E. Ford	Democrat-Tennessee	1975-
Julian C. Dixon	Democrat-California	1979-
William H. Gray	Democrat-Pennsylvania	1979-1990
Mickey Leland	Democrat-Texas	1979-1989
Melvin Evans	Republican-Virgin Islands	1978-1980
Bennett McVey Steward	Democrat-Illinois	1979-1980
George W. Crockett	Democrat-Michigan	1980-1990
Mervyn M. Dymally	Democrat-California	1981-1992
Gus Savage	Democrat-Illinois	1981-1992
Harold Washington	Democrat-Illinois	1981-1983
Katie Hall	Democrat-Indiana	1982-1984
Major Owens	Democrat-New York	1983-
Edolphus Towns	Democrat-New York	1983-
Alan Wheat	Democrat-Missouri	1983-
Charles Hayes	Democrat-Illinois	1983-1992
Alton R. Waldon Jr.	Democrat-New York	1986-1987
Mike Espy	Democrat-Mississippi	1987-1993
Floyd Flake	Democrat-New York	1987-
John Lewis	Democrat-Georgia	1987-
Kweisi Mfume	Democrat-Maryland	1987-
Donald M. Payne	Democrat-New Jersey	1988-
Craig Washington	Democrat-Texas	1990-
Lucien E. Blackwell	Democrat-Pennsylvania	1991-
Barbara Rose-Collins	Democrat-Michigan	1991-
Gary A. Franks	Republican-Connecticut	1991-
Eleanor Holmes Norton	Democrat-Dist of Columbia	1991-
Maxine Waters	Democrat-California	1991-
William Jefferson	Democrat-Louisiana	1991-
Earl Hilliard	Democrat-Alabama	1993-
Carrie Meek	Democrat-Florida	1993-

Name	Party & State	Year
Eva Clayton	Democrat-North Carolina	1993-
Corrine Brown	Democrat-Florida	1993-
Cynthia McKinney	Democrat-Georgia	1993-
Eddie Bernice Johnson	Democrat-Texas	1993-
Melvin L. Watt	Democrat-North Carolina	1993-
Robert Scott	Democrat-Virginia	1993-
Jim Clyburn	Democrat-South Carolina	1993-
Sanford Bishop	Democrat-Georgia	1993-
Cleo Fields	Democrat-Louisiana	1993-
Alcee Hastings	Democrat-Florida	1993-
Walter Tucker	Democrat-California	1993-
Mel Reynolds	Democrat-Illinois	1993-
Bobby Rush	Democrat-Illinois	1993-
Albert Wynn	Democrat-Maryland	1993-

Appendix C - District Data for the Equal Population and Political Boundary Analyses

Note: Percent Population Data for Congressional Districts was standardized to an ideal 500,000 person district before being used for the t-tests. That data is available in Appendix F

North Carolinas Twelfth Congressional District

	Equal Population Data				Political Boundary Data		
District	Pop	Ideal Pop	Abs Dev	Rel Dev	Whole Cnty	Pop Wh Cnty	Percent Pop
NC12	552,387	552,386	1	0.0000018	0/10	0	0

North Carolina Comparison Group

	Equal Population Data				Political Boundary Data		
District	Pop	Ideal Pop	Abs Dev	Rel Dev	Whole Cnty	Pop Wh Cnty	PercentPop
NC1	552,394	552,386	8	0.0000144	9/28	143,613	25.99829
NC2	552,378	552,386	8	0.0000144	4/13	226,916	41.07984
NC3	552,378	552,386	8	0.0000144	8/19	162,878	29.48669
NC4	552,378	552,386	8	0.0000144	1/3	38,759	7.01675
NC5	552,386	552,386	0	0	8/14	304,615	55.14531
NC6	552,385	552,386	1	0.0000018	1/6	106,546	19.28835
NC7	552,386	552,386	0	0	1/8	50,985	9.22995
NC8	552,387	552,386	1	0.0000018	8/14	382,859	69.30992
NC9	552,387	552,386	1	0.0000018	0/3	0	0
NC10	552,386	552,386	0	0	6/17	256,063	46.3558
NC11	552,387	552,386	1	0.0000018	10/16	200,968	36.38173

Black-Majority Districts in South Group

	Equal Population Data				Political Boundary Data		
District	Pop	Ideal Pop	Abs Dev	Rel Dev	Whole Cnty	Pop Wh Cnty	Percent Pop
AL7	577,227	577,226.71	0.29	0.0000005	9/14	168,042	29.111
DCdel	606,900	606,900	0	0	1/1	606,900	100
FL3	562,519	562,518.52	0.48	0.0000008	0/14	0	0
FL17	562,519	562,518.52	0.48	0.0000008	1/1	562,519	100
FL23	562,519	562,518.52	0.48	0.0000008	0/7	0	0
GA2	591,699	588,928.73	2770.27	0.0047039	23/35	272,007	49.9705
GA5	586,485	588,928.73	2443.73	0.0041494	0/4	0	0
GA11	586,195	588,928.73	2733.73	0.0046418	14/22	158,383	27.01882
LA2	602,689	602,853.29	164.29	0.0002725	0/2	0	0
LA4	602,884	602,853.29	30.71	0.0000509	4/28	48,938	8.11994
MD4	597,690	597,683.5	6.5	0.0000108	0/2	0	0
MD7	597,680	597,683.5	3.5	0.0000058	1/1	597,680	100
MS2	514,845	514,643.2	201.8	0.0003921	16/24	375,696	72.97264
NC1	552,394	552,386	8	0.0000144	9/28	143,316	25.99829
SC6	581,119	581,117.17	1.83	0.0000031	5/16	230,410	39.64936
TN9	541,981	541,909.44	71.56	0.000132	1/1	541,981	100
TX18	566,217	566,217	0	0	1/1	566,217	100
TX30	566,217	566,217	0	0	0/3	0	0
VA3	562,431	562,487.09	56.09	0.0000997	0/18	0	0

Southern Comparison Group

		Equal Population Data			Political Boundary Data		
State	Pop	Ideal Pop	Abs Dev	Rel Dev	Whole Cnty	Pop Wh Cnty	Percent Pop
AL1	577,226	577,226.71	0.71	0.0000012	5/6	478,946	82.97373
AL5	577,227	577,226.71	0.29	0.0000005	6/7	572,213	99.13136
AR1	588,588	587,681.25	906.75	0.0015429	25/25	588,588	100
AR4	585,202	587,681.25	2479.25	0.0042186	26/26	585,202	100
DE1	666,168	666,168	0	0	3/3	666,168	100
FL2	562,519	562,518.52	0.48	0.0000008	15/18	431,409	76.69234
FL3	562,519	562,518.52	0.48	0.0000008	0/14	0	0
FL4	562,518	562,518.52	0.52	0.0000009	1/5	43,941	7.81148
FL6	562,518	562,518.52	0.52	0.0000009	2/8	32,767	5.82505
FL8	562,518	562,518.52	0.52	0.0000009	0/2	0	0
FL9	562,518	562,518.52	0.52	0.0000009	0/5	0	0
FL10	562,518	562,518.52	0.52	0.0000009	1/1	562,518	100
FL11	562,519	562,518.52	0.48	0.0000008	1/1	562,519	100
FL12	562,519	562,518.52	0.48	0.0000008	2/6	43,364	7.70889
FL17	562,519	562,518.52	0.48	0.0000008	1/1	562,519	100
GA3	591,328	588,928.72	2399.28	0.0040739	8/16	255,188	43.15506
GA4	588,293	588,928.72	635.72	0.0010794	1/4	54,091	9.19456
GA5	586,485	588,928.72	2443.72	0.0041494	0/4	0	0
KY1	614,212	614,216	4	0.0000065	30/31	598,905	97.50786
KY2	615,184	614,216	968	0.0015759	20/23	559,134	90.8889
KY5	613,979	614,216	237	0.0003858	26/27	610,839	99.48858
LA2	602,689	602,853.28	164.28	0.0002725	0/2	0	0
MD3	597,680	597,683.5	3.5	0.0000058	0/3	0	0
MS1	514,548	514,643.2	95.2	0.0001849	19/24	482,602	93.79144
MS2	514,845	514,643.2	201.8	0.0003921	16/24	375,696	72.97264
NC1	552,394	552,386	8	0.0000144	9/28	143,316	25.99829
NC9	552,387	552,386	1	0.0000018	0/3	0	0
OK1	524,264	524,264.16	0.16	0.0000003	1/2	503,341	96.00907

	Equal Population Data				Political Boundary Data		
State	Pop	Ideal Pop	Abs Dev	Rel Dev	Whole Cnty	Pop Wh Cnty	Percent Pop
OK6	524,264	524,264.16	0.16	0.0000003	22/24	282,056	53.80037
SC1	581,125	581,117.16	7.84	0.0000134	2/5	190,355	32.75629
SC2	581,111	581,117.16	6.16	0.0000106	5/11	233,304	40.14792
SC5	581,131	581,117.16	13.84	0.0000238	10/13	458,807	78.9507
TN7	541,937	541,909.44	27.56	0.0000508	13/15	366,617	67.64937
TX10	566,217	566,217	0	0	1/1	566,217	100
TX14	566,217	566,217	0	0	17/22	446,297	78.82084
TX16	566,217	566,217	0	0	1/1	566,217	100
TX17	566,217	566,217	0	0	31/32	513,471	90.68449
TX18	566,217	566,217	0	0	1/1	566,217	100
TX19	566,217	566,217	0	0	17/20	251,866	44.48223
TX21	566,217	566,217	0	0	14/21	132,680	23.43271
TX26	566,217	566,217	0	0	0/4	0	0
TX28	566,217	566,217	0	0	9/13	140,550	24.82263
VA2	562,276	562,487	211	0.0003751	0/2	0	0
VA4	562,466	562,487	21	0.0000373	15/22	353,457	62.84059
VA6	562,572	562,487	85	0.0001511	17/20	432,161	76.81878
VA7	562,643	562,487	156	0.0002733	4/10	71,458	12.70041
VA8	562,484	562,487	3	0.0000053	3/4	291,697	51.85871
VA9	562,380	562,487	107	0.0001902	22/23	550,397	97.86923
WV1	598,056	597,825.66	230.34	0.0003852	19/19	598,056	100
WV3	597,500	597,825.66	325.66	0.0005447	16/16	597,500	100

United States Comparison Group

State	Pop	Equal Population Data			Political Boundary Data		
		Ideal Pop	Abs Dev	Rel Dev	Whole Cnty	Pop Wh Cnty	Percent Pop
AR2	587,412	587,681.25	269.25	0.0004581	8/8	587,412	100
CA22	572,891	572,308.09	582.91	0.0010185	1/2	217,162	37.90633
CA28	572,927	572,308.09	618.91	0.0010814	1/1	572,927	100
CA36	573,663	572,308.09	1354.91	0.0023674	1/1	573,663	100
CO3	549,062	549,065.66	3.66	0.0000066	33/36	529,276	96.39639
CT4	547,765	547,852.66	86.66	0.0001596	1/1	547,765	100
DE1	666,168	666,168	0	0	3/3	666,168	100
FL6	562,518	562,518.52	0.52	0.0000009	2/8	32,767	5.82505
FL17	562,519	562,518.52	0.48	0.0000008	1/1	562,519	100
ID1	503,357	503,374.5	17.5	0.0000347	18/19	364,960	72.5052
IL5	571,530	571,530.1	0.1	0.0000001	1/1	571,530	100
IL8	571,530	571,530.1	0.1	0.0000001	0/2	0	0
IL12	571,530	571,530.1	0.1	0.0000001	7/9	430,581	75.3383
IL16	571,530	571,530.0	0.1	0.0000001	5/6	536,833	93.9291
IA5	555,457	555,351	106	0.0001908	30/30	555,457	100
KS3	619,439	619,393.5	45.5	0.0000734	3/4	540,513	87.25847
LA2	602,689	602,853.28	164.28	0.0002725	0/2	0	0
LA6	602,854	602,853.28	0.72	0.0000011	6/17	136,670	22.67049
MD2	597,683	597,683.5	0.5	0.0000008	1/3	182,132	30.473
MA1	601,643	601,642.5	0.5	0.0000008	2/6	209,444	34.812
MA6	601,643	601,642.5	0.5	0.0000008	0/2	0	0
MI1	580,956	580,956.06	0.06	0.0000001	27/28	577,774	99.44711
MI14	580,956	580,956.06	0.06	0.0000001	1/1	580,956	100
MO1	568,285	568,563.66	278.66	0.0004901	1/1	568,285	100
MO2	568,306	568,563.66	257.66	0.0004531	0/2	0	0
NM2	504,659	505,023	364	0.0007207	14/17	447,267	88.62756
NY6	580,337	580,337.25	0.25	0.0000004	1/1	580,337	100
NY18	580,337	580,337.25	0.25	0.0000004	0/3	0	0

		Equal Population Data			Political Boundary Data		
State	Pop	Ideal Pop	Abs Dev	Rel Dev	Whole Cnty	Pop Wh Cnty	Percent Pop
NC1	552,394	552,386.41	7.59	0.0000137	9/28	143,613	25.99829
NC7	552,386	552,386.41	0.41	0.0000007	1/8	50,985	9.22995
OH6	570,901	570,900.78	0.22	0.0000003	12/14	480,158	84.1053
OK1	524,264	524,264.16	0.16	0.0000003	1/2	503,341	96.00907
OK5	524,264	524,264.16	0.16	0.0000003	4/7	136,178	25.97508
PA8	565,787	565,792.52	5.52	0.0000097	1/2	541,174	95.64977
PA9	565,803	565,792.52	10.48	0.0000185	8/11	461,046	81.48525
PA11	565,913	565,792.52	120.48	0.0002129	4/6	465,932	82.33279
SC1	581,125	581,117.16	7.84	0.0000134	2/5	190,355	32.75629
SC5	581,131	581,117.16	13.84	0.0000238	10/13	458,807	78.9507
TN7	541,937	541,909.44	27.56	0.0000508	13/15	366,617	67.64937
TX1	566,217	566,217	0	0	16/19	452,505	79.91724
TX11	566,217	566,217	0	0	11/12	558,539	98.64398
TX14	566,217	566,217	0	0	17/22	446,297	78.82084
TX15	566,217	566,217	0	0	8/11	522,464	92.27275
TX20	566,217	566,217	0	0	1/1	566,217	100
TX21	566,217	566,217	0	0	14/21	132,680	23.43271
TX24	566,217	566,217	0	0	1/4	39,926	7.05136
VT1	562,758	562,758	0	0	14/14	562,758	100
WA4	540,744	540,743.55	0.45	0.0000008	8/10	532,144	98.40959
WA5	540,744	540,743.55	0.45	0.0000008	10/11	527,477	97.54652
WI6	543,652	543,529.88	122.12	0.0002246	7/14	274,113	50.42067

Appendix D - Table of Critical Values for t-tests (Ebdon 1985:205)

Degrees of freedom	Significance level (one-tailed) 0.05	0.025	0.01	0.005	0.0005
	Significance level (two-tailed) 0.1	0.05	0.02	0.01	0.001
1	6.31	12.71	31.82	63.66	636.62
2	2.92	4.30	6.97	9.93	31.60
3	2.35	3.18	4.54	5.84	12.92
4	2.13	2.78	3.75	4.60	8.61
5	2.01	2.57	3.37	4.03	6.86
6	1.94	2.45	3.14	3.71	5.96
7	1.89	2.37	3.00	3.50	5.41
8	1.86	2.31	2.90	3.35	5.04
9	1.83	2.26	2.82	3.25	4.78
10	1.81	2.23	2.76	3.17	4.59
11	1.80	2.20	2.72	3.11	4.44
12	1.78	2.18	2.68	3.05	4.32
13	1.77	2.16	2.65	3.01	4.22
14	1.76	2.15	2.62	2.98	4.14
15	1.75	2.13	2.60	2.95	4.07
16	1.75	2.12	2.58	2.92	4.01
17	1.74	2.11	2.57	2.90	3.97
18	1.73	2.10	2.55	2.88	3.92
19	1.73	2.09	2.54	2.86	3.88
20	1.73	2.09	2.53	2.85	3.85
21	1.72	2.08	2.52	2.83	3.82
22	1.72	2.07	2.51	2.82	3.79
23	1.71	2.07	2.50	2.81	3.77
24	1.71	2.06	2.49	2.80	3.75
25	1.71	2.06	2.49	2.79	3.73
26	1.71	2.06	2.48	2.78	3.71
27	1.70	2.05	2.47	2.77	3.69
28	1.70	2.05	2.47	2.76	3.67
29	1.70	2.05	2.46	2.76	3.66
30	1.70	2.04	2.46	2.75	3.65
40	1.68	2.02	2.42	2.70	3.55
60	1.67	2.00	2.39	2.66	3.46
120	1.66	1.98	2.36	2.62	3.37
∞	1.65	1.96	2.33	2.58	3.29

Reject H_0 if calculated value of t is **greater than** critical value at chosen significance level.

Appendix E: Demographic Characteristics for Study Districts (Data provided at the County Level																	
			Place of Residence			EDUCATIONAL ATTAINMENT (universe: 25 yrs. and older)								Housing Status			
District	County	Population	Urban	Rural	Percent Urban	Less than 9 Years	Some High Sch.	High Sch. Diploma	Some College	Associate Degree	Bachelor Degree	Graduate School	Education Quotient	Owner Occupied	Renter Occupied	% Owner Occupied	Per Capita Income
AL1	3	98280	38676	59604	0.394	6386	10923	20544	12838	3062	7079	3791	2.117	78295	18855	0.806	12275
AL1	25	24272	10120	14152	0.417	2449	3134	4819	1723	667	992	617	1.929	19353	4608	0.808	9099
AL1	53	35518	16448	19070	0.463	3947	5090	7841	3038	904	1064	643	1.870	25662	8534	0.750	8858
AL1	97	378643	308251	70392	0.814	25046	44294	75114	40586	11136	24279	11799	2.071	257256	114305	0.692	11158
AL1	99	23968	6993	16975	0.292	2489	3310	4478	1844	569	1093	445	1.901	18647	5170	0.783	9299
AL1	129	16694	0	16694	0.000	2041	2125	3693	1126	304	428	243	1.824	14659	1949	0.883	8340
AL5	33	51666	28588	23078	0.553	4946	7006	11110	5696	1597	2581	1375	1.974	40287	11073	0.784	11425
AL5	71	47796	16722	31074	0.350	6152	6780	9876	4230	1338	1427	1044	1.861	37342	10124	0.787	10144
AL5	77	79661	40579	39082	0.509	7609	8911	16585	7899	1982	5615	2835	2.043	59786	18298	0.766	11685
AL5	79	5022	0	5022	0.000	518	745	1131	306	67	99	42	1.795	3738	1276	0.746	9276
AL5	83	54135	16846	37289	0.311	5417	7439	10620	5002	1583	3456	1355	1.973	40745	11663	0.777	11696
AL5	89	238912	186609	52303	0.781	11572	18639	35243	31833	9528	31447	14602	2.343	161963	71206	0.695	15443
AL5	103	100043	63495	36548	0.635	8416	11398	19282	11991	3609	6873	3146	2.060	74913	23373	0.762	12830
AL7	23	16018	0	16018	0.000	2210	2272	3070	1089	329	512	324	1.822	13602	2342	0.853	9622
AL7	25	2968	0	2968	0.000	417	471	626	166	58	124	22	1.780	2525	443	0.851	8470
AL7	47	48130	27578	20552	0.573	4899	6589	8010	4067	1381	2185	1289	1.939	29327	17870	0.621	8344
AL7	63	10153	0	10153	0.000	1461	1273	1727	665	173	402	216	1.829	7340	2746	0.728	6306
AL7	65	15498	3047	12451	0.197	2017	2201	2862	966	376	504	318	1.833	12096	3151	0.793	8164
AL7	73	258571	252074	6497	0.975	22388	37982	46132	29313	10205	9851	4676	1.939	150106	103442	0.592	7922
AL7	85	12658	0	12658	0.000	1488	1519	2199	802	368	353	213	1.844	10282	2337	0.815	6848
AL7	91	23084	10056	13028	0.436	2104	3321	4840	1613	560	1059	553	1.935	17938	4957	0.783	9242
AL7	101	75652	67041	8611	0.886	7150	11146	11496	5926	1770	3019	1603	1.902	41714	31026	0.573	7153
AL7	105	12759	4211	8548	0.330	1820	1687	1936	619	266	462	363	1.834	8414	3709	0.694	6879
AL7	107	2903	0	2903	0.000	390	475	555	141	85	35	15	1.714	2561	320	0.889	6944
AL7	119	16174	6796	9378	0.420	1899	2360	2343	1146	210	616	380	1.854	11513	3929	0.746	8031
AL7	125	69294	48810	20484	0.704	5260	7970	11869	7139	2377	4114	2744	2.080	44508	23327	0.656	10239
AL7	131	13568	0	13568	0.000	1987	1784	2048	818	280	540	258	1.808	9740	3613	0.729	6552
AR1	1	21653	13973	7680	0.645	2888	2577	4934	1921	294	1044	401	1.879	14636	6693	0.686	11169
AR1	21	18107	7100	11007	0.392	4117	2365	3927	1087	309	402	243	1.680	13445	4451	0.751	9018
AR1	23	19411	5598	13813	0.288	2708	2686	4763	2027	369	864	431	1.882	15635	3484	0.818	10039
AR1	31	68956	45833	23123	0.665	7095	6565	12582	7469	1441	4357	2522	2.038	45721	20692	0.688	11301
AR1	35	49939	37940	11999	0.760	5776	6568	9005	4043	866	2010	839	1.865	30390	19037	0.615	9334
AR1	37	19225	8187	11038	0.426	2620	2510	3886	1391	279	654	279	1.813	13023	5917	0.688	8897
AR1	49	10037	576	9461	0.057	1685	1457	2532	758	155	266	107	1.761	8278	1623	0.836	8240
AR1	55	31804	18540	13264	0.583	4554	4058	7319	2612	314	1278	608	1.842	23245	8108	0.741	9757
AR1	63	31192	9187	22005	0.295	3216	4200	7116	2909	604	1365	713	1.926	23732	6841	0.776	10493
AR1	65	11364	0	11364	0.000	1612	1568	2920	1060	249	496	275	1.883	8907	2216	0.801	8852

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AR1	67	18944	7235	11709	0.382	3171	2946	4191	1293	208	636	206	1.750	13203	5474	0.707	8984
AR1	75	17457	7051	10406	0.404	3030	2326	4045	1133	238	420	278	1.755	12875	4174	0.755	8231
AR1	77	13053	5910	7143	0.453	2257	2001	1710	833	260	351	213	1.719	7765	5148	0.601	6582
AR1	85	39268	15692	23576	0.400	3215	4813	8617	4402	916	1744	693	1.962	29053	9725	0.749	10273
AR1	93	57525	38193	19332	0.664	7151	6170	9897	5499	1117	2473	1033	1.887	30103	26251	0.534	8691
AR1	95	11333	4234	7099	0.374	1751	1590	2224	838	95	418	178	1.786	7174	4043	0.640	7587
AR1	107	28838	17186	11652	0.596	4493	3489	3698	2515	768	1041	470	1.803	15065	13416	0.529	6692
AR1	111	24664	9404	15260	0.381	4904	3171	5155	1446	261	589	289	1.695	15769	8634	0.646	8792
AR1	117	9518	0	9518	0.000	1444	1283	2174	723	161	312	139	1.802	6990	2443	0.741	8642
AR1	121	16558	6151	10407	0.371	3035	1934	3721	1099	245	522	336	1.779	12431	3908	0.761	8219
AR1	123	28497	13364	15133	0.469	3820	3664	4811	2311	629	1018	400	1.823	16929	11224	0.601	7194
AR1	129	7841	0	7841	0.000	1553	984	1622	683	111	261	138	1.761	6169	1596	0.794	7209
AR1	135	14109	3805	10304	0.270	1704	1868	3789	1606	217	549	327	1.908	11266	2620	0.811	8578
AR1	137	9775	0	9775	0.000	1582	1146	2246	913	240	444	188	1.854	7858	1803	0.813	7679
AR1	147	9520	2710	6810	0.285	1504	1530	1817	526	99	312	129	1.743	5347	4052	0.569	7583
AR2	29	19151	6551	12600	0.342	1884	2489	4983	1414	340	776	431	1.921	14792	3992	0.787	9126
AR2	45	60006	26481	33525	0.441	3865	5750	11278	6457	1209	3758	2477	2.120	41816	14671	0.740	10141
AR2	105	7969	0	7969	0.000	905	1126	2127	626	116	221	105	1.843	6603	1288	0.837	8848
AR2	119	349660	312229	37431	0.893	16308	30476	63370	49337	11107	34050	18352	2.256	223183	118991	0.652	13760
AR2	125	64183	31178	33005	0.486	4336	6803	15892	7215	1910	3650	1226	2.027	51898	11026	0.825	11677
AR2	141	14008	0	14008	0.000	1831	1883	3466	1435	260	682	361	1.911	11402	2473	0.822	8706
AR2	145	54676	22288	32388	0.408	5895	6725	11371	5095	994	2288	1392	1.928	38721	12907	0.750	9902
AR2	149	17759	3722	14037	0.210	2326	2648	4219	1378	198	613	245	1.819	12797	4811	0.727	9400
AR4	3	24319	12731	11588	0.524	2468	3191	5874	1964	303	978	444	1.898	18978	5059	0.790	9696
AR4	11	11793	6455	5338	0.547	1512	1879	2677	762	147	598	156	1.835	8808	2728	0.764	8824
AR4	13	5826	0	5826	0.000	646	736	1534	433	142	190	89	1.876	4665	1063	0.814	9464
AR4	17	15713	10661	5052	0.678	2341	2186	2927	929	126	548	221	1.768	10711	4903	0.686	7452
AR4	19	21437	10010	11427	0.467	2072	2422	3664	2048	311	1355	933	2.047	14024	5112	0.733	9001
AR4	25	7781	0	7781	0.000	838	1173	1996	501	116	273	120	1.855	6685	1028	0.867	9025
AR4	27	25691	11151	14540	0.434	2169	3585	5058	2606	581	1458	645	1.983	17760	6993	0.717	9425
AR4	39	9614	4729	4885	0.492	1219	1384	2465	633	116	377	182	1.850	7720	1712	0.818	9101
AR4	41	16798	10517	6281	0.626	2145	2181	3027	1381	187	744	288	1.852	10614	6020	0.638	8428
AR4	43	17369	8116	9253	0.467	1685	2158	3533	1407	179	937	506	1.964	11976	4705	0.718	9114
AR4	51	73397	42708	30689	0.582	6221	9258	16498	10241	2308	4873	2502	2.053	51490	20174	0.718	11873
AR4	53	13948	3098	10850	0.222	1196	1604	3798	1288	267	542	294	1.954	11428	2410	0.826	10344
AR4	57	21621	9636	11985	0.446	2052	3219	5138	1748	436	909	379	1.904	15184	6036	0.716	8583
AR4	59	26115	9277	16838	0.355	2580	3530	6826	2131	583	974	575	1.919	20307	5479	0.788	9164
AR4	61	13569	4639	8930	0.342	1423	1848	3278	1075	236	500	207	1.878	9819	3335	0.746	9563
AR4	69	85487	62004	23483	0.725	7514	10123	17284	8013	1247	5404	2156	1.996	54682	26475	0.674	9852
AR4	73	9643	0	9643	0.000	1312	1641	1882	733	110	299	121	1.778	6981	2553	0.732	7573

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AR4	79	13690	0	13690	0.000	1673	2077	3136	1346	300	395	113	1.823	7968	2566	0.756	7899
AR4	81	13966	5150	8816	0.369	1200	1882	3204	1389	327	440	268	1.925	10820	3020	0.782	9942
AR4	91	38467	22813	15654	0.593	3565	5042	8118	3800	1058	1465	798	1.935	26571	11177	0.704	9663
AR4	97	7841	0	7841	0.000	1061	1102	1901	823	152	223	156	1.853	6370	1213	0.840	8343
AR4	99	10101	3673	6428	0.364	989	1571	2356	773	172	448	192	1.898	7806	2080	0.790	9666
AR4	103	30574	14380	16194	0.470	2956	4082	6375	3416	729	1789	652	1.966	22774	7398	0.755	9974
AR4	109	10086	0	10086	0.000	1077	1486	2508	819	143	421	136	1.871	7993	1928	0.806	9220
AR4	133	13637	4633	9004	0.340	1715	1916	3022	1253	315	456	178	1.843	10338	3070	0.771	9060
AR4	139	46719	23146	23573	0.495	3628	6672	10065	4828	1184	2764	1061	1.991	33854	12066	0.737	10617
CA22	79	217162	174573	42589	0.804	7732	15424	34099	37664	12184	21586	10297	2.304	124006	79241	0.610	15237
CA22	83	355794	332587	23207	0.935	21204	22846	46827	53306	18595	36955	22575	2.324	188288	152290	0.553	17203
CA28	37	572189	571426	763	0.999	23260	40273	85287	85371	36027	60931	32141	2.334	393880	166005	0.704	18064
CA36	37	573665	573099	566	0.999	20654	33330	79328	90202	33401	95218	54266	2.506	322049	244731	0.568	25534
CO3	3	13617	7559	6058	0.555	778	949	2064	1598	295	1089	718	2.243	8493	4132	0.673	9286
CO3	7	5345	0	5345	0.000	277	390	1174	753	203	486	201	2.203	3953	1392	0.740	10913
CO3	15	12684	4734	7950	0.373	645	1015	3204	2015	519	918	406	2.154	8165	3372	0.708	10788
CO3	21	7453	0	7453	0.000	948	630	1450	748	111	323	143	1.905	5861	1558	0.790	6664
CO3	23	3190	0	3190	0.000	438	372	665	284	76	140	75	1.890	2547	643	0.798	7057
CO3	27	1926	0	1926	0.000	100	118	476	297	96	197	61	2.210	1354	572	0.703	11309
CO3	29	20980	3789	17191	0.181	1537	2395	5396	2463	806	1275	716	2.068	15060	5426	0.735	9586
CO3	33	1504	0	1504	0.000	108	172	425	145	47	71	26	1.989	1219	285	0.811	9784
CO3	35	3011	153	2858	0.051	28	101	447	582	127	563	283	2.591	2770	241	0.920	22555
CO3	37	21928	6266	15662	0.286	530	913	3270	3763	1034	3792	887	2.425	13379	8465	0.612	18202
CO3	43	13691	9962	3729	0.728	844	1132	3148	2247	542	890	652	2.171	10081	3064	0.767	11461
CO3	45	29974	14201	15773	0.474	929	1923	6418	4420	1438	3061	1110	2.270	18570	10700	0.634	13086
CO3	49	7966	0	7966	0.000	165	507	1517	1222	313	1219	392	2.384	4862	3019	0.617	13457
CO3	51	10273	4636	5637	0.451	171	368	1264	1503	312	1435	684	2.519	5154	4048	0.560	11516
CO3	53	467	0	467	0.000	7	18	107	87	23	93	21	2.428	289	178	0.619	12978
CO3	55	6009	3300	2709	0.549	739	698	1043	906	200	346	173	1.983	4111	1780	0.698	8212
CO3	57	1605	0	1605	0.000	94	101	410	251	66	145	22	2.129	979	626	0.610	10858
CO3	59	3142	0	3142	0.000	25	131	452	670	174	517	159	2.469	2790	352	0.888	20245
CO3	65	6007	2696	3311	0.449	233	451	1255	864	328	345	260	2.211	4050	1933	0.677	11269
CO3	67	32284	12430	19854	0.385	921	1845	5300	4736	1135	3665	1773	2.367	20900	9712	0.683	12163
CO3	77	93145	76011	17134	0.816	4217	8157	19241	14033	4201	7130	3379	2.186	61490	29320	0.677	11850
CO3	79	558	0	558	0.000	26	37	143	124	10	53	21	2.209	365	193	0.654	11082
CO3	81	11357	8091	3266	0.712	442	948	2469	1528	390	844	289	2.157	8106	3133	0.721	12354
CO3	83	18672	7284	11388	0.390	1190	1763	3868	2463	562	1381	487	2.101	14177	4346	0.765	10176
CO3	85	24423	8854	15569	0.363	1674	2461	5681	3054	853	1564	940	2.107	17752	6271	0.739	11092
CO3	91	2295	0	2295	0.000	75	129	527	378	63	277	177	2.380	1627	668	0.709	13208
CO3	93	7174	0	7174	0.000	94	345	1621	1375	382	712	392	2.359	5779	1395	0.806	14325

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CO3	97	12661	5049	7612	0.399	218	284	1285	2287	685	3825	903	2.652	7168	5389	0.571	26755
CO3	101	123051	110652	12399	0.899	9408	11316	25915	16818	4930	7153	3984	2.085	83670	36463	0.696	10347
CO3	103	5972	0	5972	0.000	231	452	1123	1001	267	370	190	2.186	3997	1824	0.687	12357
CO3	105	10770	4324	6446	0.401	1175	863	2112	1128	267	710	464	2.067	7372	3206	0.697	9582
CO3	107	14088	6695	7393	0.475	197	565	2137	2358	706	2460	715	2.476	9287	4634	0.667	15429
CO3	109	4619	0	4619	0.000	570	387	935	406	103	303	100	1.962	2977	1549	0.658	8630
CO3	111	745	0	745	0.000	18	62	148	97	27	77	34	2.289	502	243	0.674	11029
CO3	113	3653	0	3653	0.000	45	120	594	638	115	783	236	2.540	2206	1427	0.607	16454
CO3	117	12881	0	12881	0.000	52	335	1609	2480	757	2683	757	2.574	6962	5873	0.542	17400
CT4	1	547561	522960	24601	0.955	32637	44764	94256	55438	20190	75985	51428	2.394	362324	174606	0.675	27130
DE0	1	110993	58623	52370	0.528	6391	11794	22967	12340	4072	6354	3798	2.100	76120	30861	0.712	12726
DE0	3	441946	412478	29468	0.933	16227	38730	88345	49709	19213	45496	26089	2.296	315432	112362	0.737	17442
DE0	5	113229	16237	96992	0.143	8391	14939	28718	10571	4370	6765	3220	2.028	87052	24154	0.783	12723
DC98	1	606900	606900	0	1.000	39107	70759	86756	63677	12547	65892	70393	2.377	250587	315364	0.443	18881
FL2	3	8981	2669	6312	0.297	780	1012	1975	886	243	222	150	1.920	7290	1496	0.830	10319
FL2	5	96139	82414	13725	0.857	6111	10277	18816	12876	4197	5659	3070	2.096	62555	31182	0.667	11295
FL2	13	11011	0	11011	0.000	1354	1732	2123	921	299	360	216	1.850	8077	1913	0.809	8867
FL2	23	25881	7580	18301	0.293	1675	2968	5396	2996	1108	1411	1006	2.095	19010	6310	0.751	11359
FL2	37	8967	2707	6260	0.302	1066	1408	1869	826	181	450	307	1.933	6861	1922	0.781	9954
FL2	39	41105	11826	29279	0.288	4696	5199	7500	3458	1030	1835	936	1.910	29569	9301	0.761	8597
FL2	45	11504	4044	7460	0.352	984	1585	2817	1287	268	562	138	1.937	8730	2347	0.788	10028
FL2	47	10930	0	10930	0.000	1203	1530	2476	715	179	333	126	1.830	7178	2608	0.733	8851
FL2	63	41375	8967	32408	0.217	5194	5071	8233	4013	1301	1755	1173	1.926	28418	8499	0.770	9654
FL2	65	11296	2524	8772	0.223	1255	1275	2210	952	322	649	391	1.991	8307	2779	0.749	9744
FL2	67	5578	0	5578	0.000	718	784	1345	405	156	146	41	1.805	3826	885	0.812	8966
FL2	73	192493	158809	33684	0.825	6046	10622	23793	20414	8457	23675	17180	2.508	114037	67488	0.628	14088
FL2	77	5569	0	5569	0.000	649	909	1180	452	144	194	70	1.838	3716	828	0.818	11500
FL2	79	16569	3360	13209	0.203	1943	2511	3002	1158	635	689	306	1.874	11269	3918	0.742	9727
FL2	121	26780	6332	20448	0.236	2716	3604	6562	2450	680	972	460	1.904	20615	5611	0.786	9768
FL2	123	17111	7151	9960	0.418	1644	2479	3936	1307	429	737	333	1.914	13515	3553	0.792	10331
FL2	129	14202	0	14202	0.000	1026	1542	3534	1638	395	568	347	2.008	11659	2385	0.830	10858
FL2	133	16919	3866	13053	0.229	1941	2442	4183	1362	450	585	247	1.865	13643	2813	0.829	8794
FL3	1	39873	24838	15035	0.623	3183	5584	7228	3929	1506	1534	978	1.969	24849	12890	0.658	8357
FL3	3	3807	1118	2689	0.294	267	631	790	402	43	11	16	1.807	2253	604	0.789	6521
FL3	19	8898	6412	2486	0.721	534	986	1560	1158	394	603	488	2.181	5531	2995	0.649	15814
FL3	23	16732	5687	11045	0.340	1524	2147	3585	1879	601	321	222	1.897	12191	4097	0.748	8724
FL3	31	250589	247856	2733	0.989	19669	35477	49099	27607	8040	10969	4049	1.952	141180	102237	0.580	9708
FL3	35	1973	0	1973	0.000	182	214	415	128	12	49	18	1.837	1049	795	0.569	6146
FL3	69	2239	2074	165	0.926	405	236	299	232	7	139	23	1.794	1266	969	0.566	7414
FL3	75	1923	0	1923	0.000	282	264	240	155	61	73	12	1.772	1485	438	0.772	7004

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FL3	83	25909	11441	14468	0.442	2370	4165	4996	2315	729	731	363	1.869	14834	8884	0.625	7931
FL3	95	118099	114606	3493	0.970	9124	16347	20753	11859	3434	5141	1914	1.947	59790	53771	0.527	9163
FL3	107	27726	9216	18510	0.332	2851	3947	5805	2836	706	871	601	1.904	18842	7931	0.704	9416
FL3	109	7338	2709	4629	0.369	873	1240	1289	434	72	288	121	1.810	4859	2338	0.675	7661
FL3	117	21747	18351	3396	0.844	2128	3057	3202	2055	536	1206	675	1.975	14332	7179	0.666	12632
FL3	127	36226	27708	8518	0.765	2685	5110	6218	4012	1079	1662	632	1.964	18284	13355	0.578	8398
FL4	31	323997	320993	3004	0.991	7403	21590	59491	47935	17172	39657	17341	2.364	218223	95794	0.695	17694
FL4	35	26728	18104	8624	0.677	1210	2954	6678	4683	1237	2178	1453	2.205	20035	6656	0.751	15787
FL4	89	43941	19724	24217	0.449	3027	5051	10723	4361	1377	2417	1075	2.028	34359	9090	0.791	13288
FL4	109	76491	45243	31248	0.591	3149	6327	15549	11295	3824	8559	4676	2.306	54823	19467	0.738	18020
FL4	127	90997	85566	5431	0.940	5263	10402	20258	13811	5126	7530	3914	2.165	60489	26399	0.696	14865
FL6	3	5698	179	5519	0.031	477	763	1336	533	195	148	77	1.908	4224	794	0.842	9931
FL6	7	22515	5226	17289	0.232	2163	3125	5551	2320	712	826	391	1.922	15306	3935	0.795	10287
FL6	19	97088	63348	33740	0.652	3278	7528	19422	13879	4935	7233	3392	2.216	74774	21487	0.777	13774
FL6	31	98385	96050	2335	0.976	3729	10194	22291	11828	4529	4705	1265	2.062	73070	23473	0.757	11791
FL6	69	149865	63615	86250	0.424	11042	21217	39163	19672	5432	9275	4840	2.045	115844	31326	0.787	12525
FL6	83	140317	62140	78177	0.443	9165	19944	35535	17950	5879	7861	4526	2.052	107670	31395	0.774	12366
FL6	107	37344	985	36359	0.026	2821	5824	9568	3885	1456	1408	694	1.952	32074	5075	0.863	10571
FL6	125	10252	0	10252	0.000	779	1383	2411	1216	380	313	219	1.966	5460	2272	0.706	9648
FL8	95	505111	463625	41486	0.918	18607	40199	94646	71034	25796	55234	23254	2.285	315001	171694	0.647	15920
FL8	97	57133	50508	6625	0.884	2978	5964	12952	6793	2608	3121	1005	2.061	33328	22634	0.596	11432
FL9	57	139283	109560	29723	0.787	4276	8925	24921	20037	7897	16659	7696	2.357	109070	29224	0.789	17124
FL9	101	134173	60283	73890	0.449	8492	21065	36006	17489	5295	7431	3446	2.023	110106	20837	0.841	12140
FL9	103	289358	285946	3412	0.988	11532	27463	67739	49532	15456	30380	14785	2.253	206840	76326	0.730	16853
FL10	103	562301	562284	17	1.000	30428	70567	134178	85142	28029	49058	23582	2.156	392511	154469	0.718	15124
FL11	57	562293	555574	6719	0.988	33308	60261	105272	70318	26644	47943	23255	2.169	337064	211957	0.614	13578
FL12	27	23865	10633	13232	0.446	3037	4327	4973	2005	608	631	590	1.840	15182	6331	0.706	10286
FL12	49	19499	3253	16246	0.167	3264	2095	3745	1327	418	657	362	1.799	14769	4229	0.777	9411
FL12	55	16427	7868	8559	0.479	1667	2448	3626	1852	556	695	457	1.952	11754	4392	0.728	11499
FL12	57	95158	57083	38075	0.600	6465	10577	18434	10549	3423	7056	2962	2.094	74538	18844	0.798	13644
FL12	101	24811	9183	15628	0.370	2930	3616	4018	2162	653	831	479	1.858	15280	8151	0.652	9311
FL12	105	382621	284684	97937	0.744	29809	51567	83842	43226	13693	22382	10981	2.025	266024	108524	0.710	12433
FL17	25	563284	563260	24	1.000	62970	77802	85856	49107	20377	23135	13598	1.913	300366	250675	0.545	9157
FL23	11	290187	290187	0	1.000	25402	44011	57388	28891	9368	12855	5489	1.936	155639	126884	0.551	10290
FL23	25	20888	20888	0	1.000	944	2246	3386	2644	1212	1287	630	2.141	14725	6090	0.707	11697
FL23	51	3555	2791	764	0.785	541	496	554	126	44	43	10	1.629	2123	1425	0.598	6961
FL23	85	7852	4794	3058	0.611	1047	1454	1289	731	130	163	137	1.780	3726	2706	0.579	11361
FL23	93	11265	4816	6449	0.428	1240	2271	2255	935	165	377	208	1.830	7040	3321	0.679	9062
FL23	99	197338	186014	11324	0.943	20421	26087	35060	19838	6623	10777	5458	1.972	109699	80651	0.576	11337
FL23	111	32560	27700	4860	0.851	4581	5445	4358	2311	726	884	369	1.746	15370	15848	0.492	7396

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GA2	7	3615	0	3615	0.000	553	453	709	196	51	132	72	1.802	2640	971	0.731	8667
GA2	21	74567	71576	2991	0.960	9156	10916	13975	5552	1203	2578	1534	1.845	34250	37541	0.477	8983
GA2	27	15398	5292	10106	0.344	1778	2086	3372	901	373	477	376	1.874	10958	4076	0.729	8522
GA2	37	5013	0	5013	0.000	705	794	945	275	101	200	117	1.825	3484	1432	0.709	8244
GA2	53	16934	14617	2317	0.863	279	514	2214	1861	616	991	398	2.295	1763	8740	0.168	8673
GA2	61	3364	0	3364	0.000	550	460	492	268	76	139	94	1.833	1933	1351	0.589	7678
GA2	71	8616	6541	2075	0.759	1386	1367	1295	348	140	111	57	1.641	4292	4134	0.509	6051
GA2	79	2255	0	2255	0.000	354	306	481	172	16	27	26	1.727	1658	597	0.735	7852
GA2	81	7232	5763	1469	0.797	1118	1254	962	138	37	87	60	1.594	3331	3901	0.461	4658
GA2	87	25511	10712	14799	0.420	2716	3452	4534	2148	713	1173	622	1.926	18152	6576	0.734	9246
GA2	93	8976	2708	6268	0.302	1263	1229	1676	557	155	323	158	1.809	5782	3019	0.657	7903
GA2	95	52988	49147	3841	0.928	5678	7126	7546	3814	1012	1582	1208	1.865	21274	29121	0.422	7115
GA2	99	11854	5595	6259	0.472	1627	1677	2105	851	268	447	227	1.831	7595	4052	0.652	8280
GA2	131	20279	9035	11244	0.446	2789	2939	4328	1238	414	642	341	1.809	14480	5524	0.724	9200
GA2	153	22361	18651	3710	0.834	2126	2843	4731	2150	504	816	397	1.915	13409	8359	0.616	9519
GA2	177	4048	0	4048	0.000	452	746	668	329	65	100	97	1.831	2491	860	0.743	7791
GA2	185	24165	19661	4504	0.814	2373	3877	3736	1368	344	729	457	1.833	10816	10686	0.503	7182
GA2	193	13114	4506	8608	0.344	1791	1791	2394	831	154	563	218	1.819	8770	4049	0.684	8101
GA2	197	5590	0	5590	0.000	728	842	1240	321	158	107	52	1.774	4497	1020	0.815	9779
GA2	199	14767	2331	12436	0.158	1898	2736	2785	672	208	300	171	1.732	10227	4309	0.704	8253
GA2	201	6280	0	6280	0.000	893	805	1416	435	111	181	148	1.836	4919	1261	0.796	11096
GA2	205	20275	8877	11398	0.438	2551	2831	3935	1351	345	644	285	1.812	13018	6978	0.651	8327
GA2	215	89586	85701	3885	0.957	6913	10340	15804	9143	2840	2853	1236	1.938	35170	47462	0.426	8221
GA2	225	10443	5281	5162	0.506	972	1143	1435	902	108	466	412	2.005	5529	3739	0.597	8475
GA2	239	2209	0	2209	0.000	340	379	394	165	42	56	48	1.779	1519	690	0.688	8820
GA2	243	8023	3730	4293	0.465	1057	1366	1374	500	195	206	81	1.759	4819	2852	0.628	6991
GA2	249	3588	0	3588	0.000	383	559	740	260	45	97	76	1.849	2653	927	0.741	9747
GA2	253	9010	2761	6249	0.306	1406	1259	1668	664	199	291	150	1.791	6301	2113	0.749	9270
GA2	259	5654	0	5654	0.000	948	787	1146	332	74	178	107	1.768	3952	1599	0.712	7772
GA2	261	30228	16512	13716	0.546	3030	3568	5109	2494	731	1608	1212	2.012	19466	9362	0.675	9600
GA2	263	6524	137	6387	0.021	869	948	1459	443	134	191	103	1.815	5016	1504	0.769	8728
GA2	269	7642	0	7642	0.000	1067	1218	1458	475	128	217	115	1.776	5536	2106	0.724	9182
GA2	273	10653	5295	5358	0.497	1461	1654	1883	723	215	420	182	1.814	6679	3824	0.636	8524
GA2	275	38986	17457	21529	0.448	3921	4970	8018	3029	1042	2065	1174	1.970	27279	11034	0.712	10293
GA2	307	2263	0	2263	0.000	339	364	475	112	48	50	28	1.744	1807	456	0.798	9202
GA3	9	8803	577	8226	0.066	477	1001	2026	877	308	629	404	2.146	7376	1211	0.859	14205
GA3	63	150492	142474	8018	0.947	6486	15903	32973	17896	5200	8303	3851	2.095	100717	48296	0.676	13476
GA3	77	53853	12892	40961	0.239	4207	6667	11815	4987	1271	2867	1559	2.010	40250	13162	0.754	13708
GA3	79	6736	0	6736	0.000	580	980	1715	550	112	172	92	1.876	5419	1127	0.828	10723
GA3	113	62415	28745	33670	0.461	1709	3565	11800	9273	2726	7320	2778	2.334	54610	7609	0.878	19025

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GA3	145	17788	740	17048	0.042	1805	2321	3778	1781	494	1019	583	1.993	15009	2614	0.852	13135
GA3	151	47606	12781	34825	0.268	2739	5562	11351	5425	1629	2115	999	2.026	39334	7693	0.836	13810
GA3	169	15095	0	15095	0.000	1227	1733	3246	1602	356	828	424	2.017	12337	2542	0.829	13770
GA3	171	13038	4747	8291	0.364	1577	1844	2713	949	251	520	299	1.875	8778	3986	0.688	10198
GA3	199	7644	1642	6002	0.215	719	1243	1589	695	182	252	186	1.907	5522	1831	0.751	9447
GA3	207	17113	4268	12845	0.249	1444	2209	3575	1696	479	820	576	2.008	12603	3918	0.763	11348
GA3	215	89692	87812	1880	0.979	5359	8415	16724	11862	3460	8552	5453	2.244	60284	28795	0.677	15672
GA3	225	10746	2921	7825	0.272	920	932	2358	1184	414	618	359	2.067	8700	1972	0.815	13432
GA3	231	10224	0	10224	0.000	1043	1236	2518	894	199	367	234	1.923	8139	1955	0.806	11593
GA3	255	54457	25286	29171	0.464	6021	7447	10898	4338	1214	2333	1400	1.913	32977	20638	0.615	11073
GA3	293	26300	9127	17173	0.347	3404	4380	5471	1738	595	1001	550	1.839	18144	7699	0.702	10554
GA4	89	269600	265553	4047	0.985	7429	14931	37006	39499	11498	46348	27723	2.556	159980	104206	0.606	19553
GA4	121	13338	13338	0	1.000	523	558	1645	1922	510	3321	2176	2.714	5871	7467	0.440	28427
GA4	135	252264	241790	10474	0.958	5684	13057	39536	38596	12234	35249	12381	2.406	184136	67418	0.732	17698
GA4	247	54091	22091	32000	0.408	2202	5265	11247	6867	1846	4118	1952	2.174	42431	11138	0.792	15710
GA5	63	31560	31560	0	1.000	799	1963	6507	4858	1507	3012	1068	2.271	14012	17459	0.445	14062
GA5	67	11196	10415	781	0.930	353	1161	2290	1670	465	700	244	2.131	5079	6061	0.456	13314
GA5	89	24856	24856	0	1.000	2846	4274	4557	1611	388	691	266	1.784	13813	10931	0.558	7181
GA5	121	518914	503543	15371	0.970	30592	55074	78122	59060	14510	58147	30974	2.257	249277	248129	0.501	16408
GA11	9	30727	22060	8667	0.718	2859	4559	6526	2444	755	1355	973	1.956	15664	8105	0.659	9255
GA11	33	20579	5701	14878	0.277	2458	2827	3915	1219	281	801	333	1.834	14607	5759	0.717	8185
GA11	35	15326	4076	11250	0.266	1586	2471	3590	1150	248	421	282	1.854	9329	4286	0.685	10321
GA11	51	72451	72451	0	1.000	7511	10268	11553	6965	1338	2897	1423	1.893	35642	35019	0.504	7696
GA11	89	206986	197261	9725	0.953	7955	17484	35779	28169	8841	17412	7568	2.222	131940	71200	0.650	12844
GA11	103	1353	0	1353	0.000	189	196	419	56	8	10	31	1.783	1087	266	0.803	8832
GA11	125	2357	0	2357	0.000	461	335	510	164	47	59	26	1.717	1710	533	0.762	9585
GA11	133	11793	2860	8933	0.243	1603	1869	2148	690	176	393	231	1.800	9267	2401	0.794	9390
GA11	141	8908	0	8908	0.000	1453	1199	1788	360	91	246	111	1.724	7019	1743	0.801	7345
GA11	151	11135	1312	9823	0.118	461	1254	2752	1419	443	630	214	2.076	9990	1145	0.897	15693
GA11	159	8453	0	8453	0.000	758	1129	1911	687	266	420	156	1.946	6823	1566	0.813	10761
GA11	163	17408	0	17408	0.000	2788	2400	3106	1021	352	454	189	1.736	11955	5046	0.703	8317
GA11	165	8247	3808	4439	0.462	1200	1368	1510	498	160	203	191	1.787	5769	2363	0.709	8391
GA11	237	14137	4737	9400	0.335	1396	2116	3182	1092	332	660	411	1.942	10108	3747	0.730	11951
GA11	245	92840	91882	958	0.990	8061	11557	16998	9122	2810	3595	1525	1.935	50466	40851	0.553	8723
GA11	251	13842	2869	10973	0.207	1775	1763	3221	830	277	492	244	1.845	10051	3560	0.738	9269
GA11	265	1915	0	1915	0.000	331	297	440	64	21	38	31	1.711	1453	462	0.759	7624
GA11	289	7114	0	7114	0.000	1148	1074	1313	407	54	162	75	1.706	5526	1432	0.794	8312
GA11	301	6078	0	6078	0.000	1188	982	1149	253	61	114	45	1.636	4269	1703	0.715	7864
GA11	303	19112	6290	12822	0.329	2458	2448	4281	1126	256	761	391	1.852	13799	4970	0.735	9917
GA11	317	4352	3172	1180	0.729	648	657	934	167	84	167	99	1.809	3074	1235	0.713	7913

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GA11	319	10228	0	10228	0.000	1148	1187	2411	671	183	300	241	1.886	8584	1602	0.843	10415
ID1	1	138181	115206	22975	0.834	3165	8236	23894	23688	7002	13221	5304	2.307	106208	29221	0.784	13314
ID1	3	3254	0	3254	0.000	187	343	851	403	128	184	47	2.039	2456	787	0.757	13732
ID1	9	7937	0	7937	0.000	434	853	1910	995	352	336	102	2.021	6134	1733	0.780	9921
ID1	15	3509	0	3509	0.000	178	282	838	509	157	232	99	2.138	2778	731	0.792	11747
ID1	17	26622	5230	21392	0.196	1157	2701	6324	3767	1058	1929	753	2.136	20581	5855	0.779	10527
ID1	21	8332	0	8332	0.000	552	714	1916	950	192	487	175	2.052	6224	1699	0.786	9054
ID1	27	90076	46765	43311	0.519	6724	8745	17298	11099	3059	4566	1817	2.026	60566	26907	0.692	9916
ID1	35	8505	2868	5637	0.337	664	892	2184	1139	297	485	184	2.030	5996	2063	0.744	11234
ID1	45	11844	4601	7243	0.388	938	1362	2739	1519	475	499	166	1.978	9110	2563	0.780	10450
ID1	49	13783	3226	10557	0.234	955	1325	3363	1764	578	842	315	2.064	10088	3248	0.756	10527
ID1	55	69795	35659	34136	0.511	2522	6008	13421	11930	3999	5152	2051	2.193	52182	16929	0.755	12330
ID1	57	30617	18519	12098	0.605	865	1355	3787	3486	1177	3260	2686	2.515	16637	10828	0.606	10892
ID1	61	3516	0	3516	0.000	242	251	905	478	143	237	69	2.085	2516	989	0.718	9780
ID1	69	33754	28082	5672	0.832	1600	2863	6964	5170	2160	2467	1008	2.172	23055	10137	0.695	12476
ID1	73	8392	0	8392	0.000	899	948	1576	845	167	289	134	1.893	5386	2611	0.674	9786
ID1	75	16434	5592	10842	0.340	1375	1953	3459	1980	442	713	288	1.966	11535	4749	0.708	9400
ID1	79	13931	2591	11340	0.186	980	1804	3542	1732	420	552	283	1.987	9859	3906	0.716	10373
ID1	85	6109	0	6109	0.000	200	466	1425	1034	191	571	226	2.230	4252	1793	0.703	12344
ID1	87	8550	4571	3979	0.535	718	802	2088	1103	294	380	192	2.012	6075	2350	0.721	9088
IL5	31	571053	571053	0	1.000	50620	57426	107627	68346	19006	68295	38538	2.226	326343	237595	0.579	19242
IL8	31	370127	368109	2018	0.995	10691	17515	60238	56093	17616	55357	21026	2.423	280838	87216	0.763	20719
IL8	97	201337	171746	29591	0.853	5729	13042	36013	30050	7974	23480	10535	2.345	170709	29454	0.853	20064
IL12	3	10626	4846	5780	0.456	1381	1327	2112	1148	229	334	193	1.863	7179	3270	0.687	8846
IL12	77	61067	36209	24858	0.593	3283	3548	7617	5935	2293	4963	4533	2.361	31057	22931	0.575	10003
IL12	119	130149	127082	3067	0.976	10632	13231	31175	17092	4085	5553	2372	1.992	91575	37149	0.711	11780
IL12	133	22422	10694	11728	0.477	2077	1450	5655	2520	903	1523	485	2.053	17896	4221	0.809	13886
IL12	145	21412	10024	11388	0.468	2679	1798	5180	2376	867	714	307	1.912	16725	4380	0.792	10751
IL12	157	34583	15965	18618	0.462	4035	4139	8256	3506	1008	1227	676	1.906	24731	5928	0.807	11155
IL12	163	262852	229727	33125	0.874	18906	25654	49763	33792	10581	15094	8760	2.090	171275	86914	0.663	11916
IL12	181	17619	4805	12814	0.273	2375	1951	3698	1906	847	831	484	1.946	12695	3950	0.763	10180
IL12	199	10711	3630	7081	0.339	694	833	1769	1448	532	936	557	2.232	7797	2914	0.728	11333
IL16	7	30806	15958	14848	0.518	1950	2777	7720	3495	1011	1510	809	2.061	23203	7234	0.762	14355
IL16	85	21821	6250	15571	0.286	1848	1885	6217	2094	628	1243	494	2.019	16851	4814	0.778	12497
IL16	111	183241	138746	44495	0.757	6299	11474	37319	27445	8125	16697	7362	2.264	153389	28348	0.844	17271
IL16	141	34655	12660	21995	0.365	1942	2995	8633	4246	1471	1869	813	2.084	25294	8978	0.738	13002
IL16	177	48052	28497	19555	0.593	3310	4045	12369	5558	1980	3068	1225	2.081	35210	12159	0.743	13156
IL16	201	252913	221063	31850	0.874	12982	25666	56826	30639	9779	18706	8449	2.137	180780	67745	0.727	14516
IA5	15	25186	12392	12794	0.492	1683	1596	6953	3026	1472	1762	583	2.114	17651	6457	0.732	12031
IA5	21	19965	8769	11196	0.439	1177	1069	5042	2195	1140	1457	448	2.141	13240	5494	0.707	11423

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IA5	25	11508	0	11508	0.000	930	764	3459	1261	691	684	248	2.066	8086	2987	0.730	11405
IA5	27	21423	9579	11844	0.447	2312	1130	5587	1885	1096	1123	404	2.005	16437	4467	0.786	11301
IA5	35	14098	6026	8072	0.427	912	849	4351	1561	737	769	246	2.072	9504	4144	0.696	10909
IA5	41	17585	11066	6519	0.629	651	1092	4727	2216	1123	1382	279	2.162	12161	5180	0.701	12314
IA5	47	16775	6604	10171	0.394	1776	1212	4908	1281	631	782	288	1.964	11629	4583	0.717	10056
IA5	59	14909	3871	11038	0.260	675	995	4103	1836	1061	1323	520	2.207	11252	3216	0.778	13639
IA5	63	11569	6720	4849	0.581	728	888	2952	1184	872	636	182	2.075	8337	2763	0.751	10402
IA5	69	11364	4133	7231	0.364	904	697	3042	1427	757	696	260	2.090	8137	3020	0.729	11691
IA5	73	10045	4292	5753	0.427	529	786	3096	1078	545	715	241	2.117	7178	2701	0.727	11164
IA5	79	16071	7894	8177	0.491	948	1293	4402	1877	1015	1080	315	2.100	11551	4260	0.731	11879
IA5	81	12638	3271	9367	0.259	948	832	3237	1323	1062	623	227	2.070	9261	3158	0.746	11064
IA5	83	19094	8462	10632	0.443	1465	1292	4947	2266	1245	1174	419	2.085	13155	4993	0.725	11356
IA5	91	10756	4438	6318	0.413	661	814	3219	1185	650	626	227	2.086	7849	2740	0.741	12167
IA5	93	8365	0	8365	0.000	810	526	2449	789	362	516	94	2.002	6129	2031	0.751	10993
IA5	109	18591	6015	12576	0.324	1490	1090	4988	2067	1275	1108	354	2.076	13661	4562	0.750	11247
IA5	119	11952	2601	9351	0.218	1691	538	2964	1032	527	594	174	1.934	9042	2721	0.769	9871
IA5	133	10034	2936	7098	0.293	900	1002	3139	890	388	561	166	1.987	7038	2714	0.722	10584
IA5	141	15444	4866	10578	0.315	1723	999	3793	1669	807	920	379	2.027	11315	3576	0.760	10842
IA5	143	7267	2815	4452	0.387	850	486	1941	663	379	298	180	1.983	5189	1965	0.725	11508
IA5	147	10669	3940	6729	0.369	868	757	2654	1221	624	706	194	2.066	7524	2831	0.727	10749
IA5	149	23388	8454	14934	0.361	1928	1283	5885	2288	1013	1584	612	2.090	17614	5063	0.777	11507
IA5	151	9525	0	9525	0.000	701	612	2675	1048	710	638	206	2.100	6908	2408	0.742	11531
IA5	161	12324	0	12324	0.000	881	1010	3497	1223	668	827	233	2.066	8712	3383	0.720	10852
IA5	167	29903	12583	17320	0.421	3482	1372	5965	2583	1292	1626	855	2.027	22496	5244	0.811	10411
IA5	187	40342	25894	14448	0.642	2390	3339	9986	4736	2405	2618	1019	2.113	28433	10551	0.729	11358
IA5	189	12122	4073	8049	0.336	1008	683	2729	1502	866	902	205	2.098	8827	2625	0.771	10775
IA5	193	98276	83277	14999	0.847	5308	7962	23182	10458	4179	7249	2971	2.140	69143	26308	0.724	12218
IA5	197	14269	8874	5395	0.622	1076	1138	3818	1858	883	842	276	2.066	9963	3998	0.714	11969
KS3	45	78932	71734	7198	0.909	1542	2921	9928	8536	1655	8957	6918	2.562	40921	29255	0.583	11923
KS3	91	355054	333721	21333	0.940	5175	11309	49958	56078	14811	64739	28662	2.575	267984	84275	0.761	20592
KS3	121	23466	9288	14178	0.396	1318	1941	6192	2825	871	1295	702	2.102	18015	4414	0.803	12563
KS3	209	161993	160189	1804	0.989	11056	19232	36022	18598	5223	6726	3676	2.007	104982	55164	0.656	10656
KY1	1	15307	3845	11462	0.251	3597	1695	2709	820	287	449	275	1.685	12093	2783	0.813	8600
KY1	3	14628	4278	10350	0.292	3043	1585	3445	764	188	273	165	1.689	10780	3703	0.744	8361
KY1	7	7902	0	7902	0.000	894	1016	2061	678	213	248	218	1.917	6573	1225	0.843	10262
KY1	31	11245	0	11245	0.000	2532	1343	2236	638	134	171	198	1.668	8839	2189	0.802	8108
KY1	33	13232	6940	6292	0.524	1693	1705	3223	1300	274	339	394	1.893	9420	3568	0.725	9658
KY1	35	30735	14439	16296	0.470	2919	2817	5425	3263	522	1822	1774	2.114	20601	6620	0.757	10434
KY1	39	5238	0	5238	0.000	675	646	1439	401	117	140	90	1.852	4413	825	0.842	9735
KY1	47	68941	51534	17407	0.748	5489	5264	13537	8041	2346	2457	1559	2.016	30821	28229	0.522	9708

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KY1	53	9135	0	9135	0.000	2279	1051	1732	404	127	138	256	1.668	6993	2066	0.772	6838
KY1	55	9196	3320	5876	0.361	1489	979	2493	679	149	174	139	1.790	7318	1718	0.810	9807
KY1	57	6784	0	6784	0.000	1999	775	1146	283	99	129	152	1.600	4966	1742	0.740	6858
KY1	75	8271	5861	2410	0.709	1378	1134	1554	806	73	412	155	1.821	5382	2794	0.658	9820
KY1	83	33550	9935	23615	0.296	4252	4363	8146	3162	769	1285	705	1.887	26712	6372	0.807	10784
KY1	101	43044	26506	16538	0.616	3961	4739	9823	4540	1498	1739	1343	1.999	29435	13058	0.693	12042
KY1	105	5566	0	5566	0.000	887	777	1323	486	85	152	142	1.825	4273	1144	0.789	9777
KY1	107	46126	19329	26797	0.419	6251	4947	10576	4187	1070	1694	1171	1.896	35078	10344	0.772	10751
KY1	139	9062	0	9062	0.000	1312	973	2533	860	189	194	139	1.836	7675	1272	0.858	10123
KY1	141	24416	7454	16962	0.305	3946	2760	5664	1896	312	750	528	1.818	18365	5830	0.759	9907
KY1	143	6624	0	6624	0.000	926	1008	1635	771	169	228	222	1.903	4601	821	0.849	10081
KY1	145	62879	43746	19133	0.696	4975	6483	14047	8075	2867	3703	2381	2.087	44364	17575	0.716	12460
KY1	149	9628	0	9628	0.000	1481	1131	2413	651	220	241	179	1.814	7739	1766	0.814	9599
KY1	157	27205	6419	20786	0.236	3043	3064	6766	3248	889	982	832	1.964	22743	4042	0.849	11374
KY1	171	11401	2861	8540	0.251	2894	1105	2421	495	116	257	265	1.672	8475	2792	0.752	8347
KY1	177	31318	9668	21650	0.309	5007	4079	7120	2132	548	638	609	1.782	25184	5452	0.822	9779
KY1	183	21105	5429	15676	0.257	3462	2892	4630	1402	335	475	366	1.765	16033	4777	0.770	8056
KY1	207	14716	0	14716	0.000	3222	1676	2796	1197	339	335	274	1.725	11860	2738	0.812	8967
KY1	213	15145	7607	7538	0.502	2127	1876	3410	1102	361	460	394	1.860	10662	4334	0.711	10635
KY1	219	10940	0	10940	0.000	2105	1364	2146	676	236	259	242	1.750	8306	2542	0.766	9227
KY1	221	10361	0	10361	0.000	1617	1349	2182	978	270	510	317	1.894	8397	1844	0.820	10124
KY1	225	16557	3776	12781	0.228	1178	1826	3687	1317	563	498	339	1.968	11523	3249	0.780	11080
KY1	233	13955	4123	9832	0.295	1810	1766	3478	1127	367	283	258	1.843	11006	2744	0.800	10263
KY2	1	53	0	53	0.000	21	0	13	7	5	7	0	1.816	53	0	1.000	7285
KY2	9	34001	12351	21650	0.363	6508	3794	7431	2443	578	1042	831	1.788	24645	8719	0.739	9876
KY2	27	16312	0	16312	0.000	2984	1611	4130	991	225	328	346	1.773	13204	2997	0.815	9157
KY2	29	47567	22330	25237	0.469	4286	5815	11471	3848	1369	922	885	1.900	40951	6523	0.863	10907
KY2	45	14211	0	14211	0.000	3533	1671	2505	734	118	307	284	1.645	11442	2651	0.812	7719
KY2	59	87189	60580	26609	0.695	6934	8334	20204	9349	2473	4645	3109	2.061	62156	23115	0.729	11456
KY2	61	10357	0	10357	0.000	2111	1265	2100	581	159	166	188	1.699	8605	1551	0.847	7181
KY2	85	21050	4965	16085	0.236	4350	2685	4170	1249	328	416	417	1.709	16488	4348	0.791	8767
KY2	87	10371	0	10371	0.000	2737	883	2144	663	181	253	232	1.689	8126	2091	0.795	9177
KY2	91	7864	0	7864	0.000	837	648	2217	558	249	201	134	1.912	6472	1316	0.831	10891
KY2	93	89240	56932	32308	0.638	5993	6274	17923	10224	2804	3734	2691	2.079	52606	29149	0.643	10624
KY2	99	14890	0	14890	0.000	3346	1940	2800	867	201	224	281	1.667	11174	3668	0.753	8142
KY2	111	51671	40284	11387	0.780	2972	5076	12074	5596	2001	3085	1583	2.097	42071	9334	0.818	14008
KY2	123	11679	2756	8923	0.236	1898	1309	2715	931	325	291	345	1.849	9177	2361	0.795	10129
KY2	137	4326	0	4326	0.000	1053	571	848	111	42	53	85	1.614	3507	819	0.811	7719
KY2	155	16499	5695	10804	0.345	2404	1842	4145	951	338	306	353	1.816	12421	3309	0.790	9121
KY2	163	24170	6088	18082	0.252	1893	1653	5623	2508	595	1038	480	2.015	14354	9732	0.596	9234

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KY2	169	8963	0	8963	0.000	2340	877	1722	501	137	123	173	1.640	6871	1961	0.778	7542
KY2	179	29710	6801	22909	0.229	3073	2839	7530	2252	768	925	772	1.941	23489	5676	0.805	10165
KY2	215	6801	0	6801	0.000	1127	717	1466	435	170	276	152	1.836	4875	1869	0.723	10502
KY2	217	21146	9577	11569	0.453	3781	2090	4400	1691	437	766	627	1.843	15399	5320	0.743	9848
KY2	227	76673	40641	36032	0.530	6936	6479	13750	8216	1897	5173	3710	2.117	50065	22534	0.690	11819
KY2	229	10441	2878	7563	0.276	1746	1068	2377	735	240	256	247	1.816	8187	2043	0.800	9559
KY5	13	31506	11328	20178	0.360	6571	3895	5121	1843	389	984	841	1.735	20814	10154	0.672	7037
KY5	25	15703	0	15703	0.000	3295	1642	2581	895	233	437	372	1.726	11154	4288	0.722	6905
KY5	51	21746	0	21746	0.000	5570	2265	2900	919	210	464	490	1.616	15621	5958	0.724	6084
KY5	71	43586	3558	40028	0.082	8328	4735	7296	3161	1074	1170	802	1.752	33049	10159	0.765	7922
KY5	95	36574	5897	30677	0.161	7131	4242	6594	2411	690	730	708	1.726	26193	10126	0.721	7502
KY5	109	11955	0	11955	0.000	3193	1323	1843	478	125	212	150	1.568	9365	2525	0.788	7097
KY5	115	23248	4354	18894	0.187	4090	2515	4597	1547	466	744	612	1.811	17572	5358	0.766	8492
KY5	119	17906	0	17906	0.000	3817	2012	2664	1002	256	480	388	1.700	13892	3542	0.797	6753
KY5	121	29676	5006	24670	0.169	6318	3256	4884	1713	321	714	728	1.711	19984	9149	0.686	7776
KY5	125	43438	5757	37681	0.133	7458	5341	8228	3064	723	1326	897	1.782	33625	9275	0.784	8879
KY5	127	3140	0	3140	0.000	782	367	541	120	38	12	38	1.563	2256	884	0.718	6599
KY5	129	7422	0	7422	0.000	1753	880	1279	409	65	156	112	1.639	5543	1772	0.758	6869
KY5	131	13642	0	13642	0.000	3061	1735	1982	632	110	223	305	1.642	10486	3067	0.774	7190
KY5	133	27000	2751	24249	0.102	5594	3460	4631	1414	430	646	470	1.689	21244	5608	0.791	7340
KY5	147	15603	0	15603	0.000	3592	1865	2427	704	108	166	256	1.603	11217	4117	0.732	5153
KY5	153	13077	0	13077	0.000	3059	1616	1740	716	88	172	176	1.588	10004	2892	0.776	6289
KY5	159	12526	0	12526	0.000	2547	1462	2023	631	112	271	162	1.657	10033	2481	0.802	8190
KY5	165	5092	0	5092	0.000	1085	600	1038	234	12	70	83	1.653	3996	929	0.811	6911
KY5	175	11648	0	11648	0.000	2861	1232	1860	710	174	248	240	1.661	8625	2579	0.770	6871
KY5	189	5036	0	5036	0.000	1566	491	601	196	21	150	162	1.599	3642	1288	0.739	5791
KY5	193	30283	5416	24867	0.179	5974	3651	5207	1828	466	649	587	1.712	22566	7463	0.751	7914
KY5	195	72583	6324	66259	0.087	14139	8262	13351	4593	1119	1951	1526	1.743	56724	15105	0.790	8674
KY5	199	49489	10733	38756	0.217	9273	4967	10520	3562	1206	1726	1258	1.815	37233	11161	0.769	9209
KY5	203	14803	2654	12149	0.179	3504	1595	2810	652	144	261	283	1.650	11525	3110	0.787	7630
KY5	231	17468	5357	12111	0.307	4342	1770	3450	653	208	267	340	1.636	13357	3957	0.771	6550
KY5	235	33326	11299	22027	0.339	5826	3667	5596	2346	485	1171	1104	1.829	23019	9257	0.713	8028
KY5	237	6503	0	6503	0.000	1573	744	969	347	108	192	119	1.661	4756	1680	0.739	5998
LA2	51	146764	144866	1898	0.987	12960	16770	27727	15099	3306	5765	2163	1.930	91107	54525	0.626	8907
LA2	71	456010	455810	200	1.000	38328	54481	65608	50066	10749	33089	21727	2.105	199357	240266	0.453	10074
LA4	5	9853	0	9853	0.000	553	1117	2284	958	205	396	233	2.016	8572	1281	0.870	11490
LA4	9	4864	1770	3094	0.364	819	641	801	260	21	163	42	1.703	2865	1911	0.600	5821
LA4	15	8104	2998	5106	0.370	1145	962	1679	593	116	271	74	1.793	5044	2952	0.631	7144
LA4	17	82543	80736	1807	0.978	9408	12181	14810	6524	1178	2013	1377	1.821	45848	35006	0.567	5936
LA4	27	12306	5863	6443	0.476	1573	1802	2622	1036	192	531	223	1.857	7761	3231	0.706	7782

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LA4	29	13341	7829	5512	0.587	1709	1780	2353	991	288	447	221	1.831	9692	3526	0.733	8080
LA4	33	168091	158931	9160	0.946	11933	18497	27143	17256	2186	9600	6485	2.073	95382	66611	0.589	8540
LA4	35	9709	5380	4329	0.554	1329	1336	1294	644	91	381	159	1.791	5823	3548	0.621	6059
LA4	37	19211	3891	15320	0.203	2179	2688	4097	1474	173	682	356	1.856	13316	3657	0.785	7746
LA4	47	17677	2442	15235	0.138	2200	2403	3585	1337	219	601	266	1.828	11651	4432	0.724	9116
LA4	55	24508	24015	493	0.980	4206	3436	3390	1583	260	728	473	1.735	13607	9564	0.587	5850
LA4	61	19955	14913	5042	0.747	1257	1491	1967	1946	238	987	1323	2.243	9342	7350	0.560	7487
LA4	63	14024	2364	11660	0.169	975	1719	3175	1252	137	445	129	1.904	11738	2286	0.837	9642
LA4	65	8134	6267	1867	0.770	1235	1017	1026	420	76	199	122	1.717	4133	3854	0.517	4965
LA4	67	14358	7530	6828	0.524	1939	1887	2575	743	116	514	252	1.798	9304	4749	0.662	6646
LA4	73	43982	40907	3075	0.930	4971	5525	6180	3457	554	1276	700	1.827	23259	19064	0.550	5517
LA4	77	7963	2756	5207	0.346	1397	1029	1391	365	19	111	192	1.708	5689	2228	0.719	5024
LA4	79	23124	18710	4414	0.809	3416	3623	3736	1579	260	489	237	1.720	12843	9438	0.576	5622
LA4	91	7304	0	7304	0.000	812	1042	1472	499	48	176	126	1.819	6302	1002	0.863	6791
LA4	97	25243	12800	12443	0.507	4453	2671	4376	1263	322	783	588	1.768	16043	8705	0.648	6653
LA4	99	7848	3720	4128	0.474	996	1066	1432	475	75	165	64	1.747	6030	1645	0.786	6398
LA4	105	19900	7843	12057	0.394	2451	3021	3259	1106	240	689	373	1.809	13264	6182	0.682	5969
LA4	107	7103	0	7103	0.000	978	819	1374	542	76	313	189	1.878	5175	1804	0.742	7896
LA4	111	6330	0	6330	0.000	846	815	1399	492	73	173	107	1.819	5206	1053	0.832	7528
LA4	119	7768	4005	3763	0.516	1030	1103	1630	705	113	332	163	1.864	5448	2183	0.714	10301
LA4	121	5321	3856	1465	0.725	652	748	905	333	46	156	132	1.832	3527	1678	0.678	7407
LA4	123	1593	0	1593	0.000	242	267	382	59	6	70	35	1.795	1253	340	0.787	8159
LA4	125	12915	0	12915	0.000	1560	2390	2970	1376	214	470	246	1.855	5749	2158	0.727	6796
LA6	9	34295	11400	22895	0.332	5672	4802	6894	2020	409	1041	538	1.755	24477	8120	0.751	7023
LA6	21	9810	0	9810	0.000	1190	1445	2020	811	105	431	142	1.847	7559	2015	0.790	8308
LA6	25	11065	2720	8345	0.246	1563	1541	2158	757	129	382	206	1.809	8639	2253	0.793	7862
LA6	29	7487	1232	6255	0.165	768	1171	1639	610	150	255	223	1.912	6124	1217	0.834	8945
LA6	33	212014	185409	26605	0.875	3788	9306	35519	31341	4972	29871	15495	2.482	143732	62176	0.698	16763
LA6	39	5613	0	5613	0.000	924	644	1110	342	83	183	50	1.749	4440	1173	0.791	7286
LA6	43	17526	0	17526	0.000	1797	2168	3916	1485	268	684	336	1.904	13806	3511	0.797	8330
LA6	47	12318	4744	7574	0.385	1372	1422	2692	901	149	551	198	1.885	9730	2415	0.801	9804
LA6	59	13662	2733	10929	0.200	1400	2014	3549	905	192	497	195	1.863	10469	2950	0.780	9015
LA6	63	27240	12222	15018	0.449	1378	2841	6754	2912	549	1179	508	2.025	22056	4875	0.819	10901
LA6	77	14577	2547	12030	0.175	1728	1499	3597	1109	214	694	324	1.918	11395	2958	0.794	10722
LA6	79	108432	67101	41331	0.619	8206	9564	22562	12789	2561	6938	3993	2.096	73263	29984	0.710	10951
LA6	85	22646	3126	19520	0.138	2666	2777	5697	1677	287	710	483	1.873	17587	4522	0.795	8539
LA6	97	20425	5351	15074	0.262	3180	1576	4379	1560	317	878	454	1.868	15660	4484	0.777	9062
LA6	115	61961	25382	36579	0.410	2646	4410	12156	6850	1277	2303	851	2.049	26747	28004	0.489	8414
LA6	121	14098	2865	11233	0.203	1137	1402	3608	1400	202	647	206	1.962	11483	2549	0.818	11330
LA6	127	8960	2334	6626	0.260	993	1092	2268	637	90	477	287	1.951	7257	1448	0.834	9962

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MD2	3	45276	43850	1426	0.969	1470	3963	8961	6364	1831	4621	2384	2.285	41102	4174	0.908	19450
MD2	5	370042	321547	48495	0.869	22670	38137	77639	46057	12167	34211	22787	2.219	261422	100627	0.722	18394
MD2	25	182132	126975	55157	0.697	7677	13495	36025	25390	7844	16217	8551	2.253	138930	39687	0.778	16612
MD3	3	63874	62106	1768	0.972	2720	5429	12787	8858	2301	4392	2052	2.167	36529	24750	0.596	14418
MD3	5	194647	187121	7526	0.961	8906	16648	36690	25715	7170	22386	15930	2.352	138464	54554	0.717	20206
MD3	27	87725	85876	1849	0.979	1648	2893	8667	10837	3673	17367	12225	2.755	62754	23583	0.727	21874
MD3	510	251466	251466	0	1.000	25781	35856	46108	23569	5887	18568	16230	2.094	155012	89994	0.633	15327
MD4	31	159267	159267	0	1.000	5758	7118	19058	20742	6092	26846	22382	2.653	88369	69500	0.560	20677
MD4	33	438524	434675	3849	0.991	15012	36883	85483	63917	15168	36265	19787	2.242	254405	178381	0.588	16007
MD7	5	127445	122612	4833	0.962	5639	10418	23124	18770	5530	14328	8652	2.327	84865	38543	0.688	17064
MD7	510	470256	470256	0	1.000	42798	77796	81129	43005	10471	21269	17030	1.965	210533	245658	0.462	10269
MA1	3	139352	85841	53511	0.616	7823	12686	32126	14014	6599	11903	7458	2.210	94900	38332	0.712	14857
MA1	11	70092	22538	47554	0.322	2589	5623	15456	7870	3747	6733	4541	2.306	48988	19938	0.711	13944
MA1	13	123792	112785	11007	0.911	7555	11750	26885	12507	6029	9445	4501	2.142	73204	46091	0.614	13598
MA1	15	86616	46211	40405	0.534	2555	4505	11954	7107	3691	8377	8246	2.510	50701	22430	0.693	14034
MA1	17	11213	0	11213	0.000	204	593	2278	1505	618	1212	387	2.319	10112	1101	0.902	15916
MA1	27	170656	117955	52701	0.691	11824	16234	37176	17606	8906	12228	6444	2.127	113508	52447	0.684	14177
MA6	9	530732	472652	58080	0.891	22523	39775	106616	63843	30196	62311	34295	2.332	367172	151604	0.708	18301
MA6	17	71079	68714	2365	0.967	1518	4258	14280	7861	4488	9396	5459	2.442	61861	7880	0.887	20397
MI1	3	8972	2783	6189	0.310	705	916	2507	903	287	461	230	2.021	6923	1511	0.821	9669
MI1	7	30605	11354	19251	0.371	2578	2746	7166	3857	1516	1449	853	2.046	24729	5610	0.815	10930
MI1	9	18185	0	18185	0.000	977	1901	4793	2194	651	1058	611	2.101	14505	3506	0.805	10856
MI1	13	7954	0	7954	0.000	784	741	2172	716	325	254	174	1.959	5954	1747	0.773	9021
MI1	19	12200	0	12200	0.000	615	1331	3107	1495	527	868	390	2.121	10010	2043	0.830	10415
MI1	29	21468	6594	14874	0.307	961	1874	5275	2690	924	1532	707	2.156	16970	4357	0.796	11632
MI1	31	21398	4999	16399	0.234	1371	2388	6082	2285	667	986	428	2.013	17314	3866	0.817	9568
MI1	33	34604	14689	19915	0.424	2062	3707	8090	4288	1342	1527	832	2.047	22049	7450	0.747	9468
MI1	39	3262	0	3262	0.000	172	424	789	405	135	109	60	2.007	2462	332	0.881	7896
MI1	41	37780	18224	19556	0.482	2610	3047	9565	4625	1870	1896	863	2.065	30139	7196	0.807	10810
MI1	43	26831	16767	10064	0.625	1573	2287	7700	2742	1330	1657	683	2.092	21981	4495	0.830	12338
MI1	47	25040	6056	18984	0.242	960	2077	5657	3334	1259	2093	1068	2.225	19707	4904	0.801	12606
MI1	53	18052	6849	11203	0.379	1186	1779	4981	1905	1219	1008	419	2.069	14205	3140	0.819	9481
MI1	55	64273	15116	49157	0.235	1974	4247	13213	8931	3666	6176	2887	2.290	49933	12824	0.796	13289
MI1	61	35446	12045	23401	0.340	2562	2818	7214	2939	1393	2207	1513	2.130	23784	8401	0.739	9012
MI1	71	13175	0	13175	0.000	1075	1518	4222	1296	522	646	315	2.003	10553	2312	0.820	9077
MI1	79	13497	0	13497	0.000	812	1766	3734	1201	366	404	202	1.952	11047	2324	0.826	9502
MI1	83	1701	0	1701	0.000	230	229	496	146	43	97	46	1.924	1488	213	0.875	8620
MI1	89	16527	41	16486	0.002	634	1024	3532	2310	941	1767	919	2.315	13589	2845	0.827	13307
MI1	95	5763	0	5763	0.000	485	674	1548	555	185	237	127	1.974	4412	1130	0.796	9264
MI1	97	10674	2568	8106	0.241	852	1196	2943	1071	349	546	199	1.991	8171	2383	0.774	9751

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MI1	103	70887	40375	30512	0.570	2851	4875	15144	8172	2755	5707	2882	2.227	45894	20493	0.691	11025
MI1	109	24920	9398	15522	0.377	1776	2471	7655	2121	960	1093	438	1.998	20338	4226	0.828	10336
MI1	119	8936	0	8936	0.000	787	1248	2538	861	296	376	173	1.948	7263	1583	0.821	9307
MI1	131	8854	0	8854	0.000	760	816	2797	836	418	406	165	1.998	7311	1397	0.840	10939
MI1	137	17957	3256	14701	0.181	982	1352	4619	2131	714	1056	504	2.114	14557	3162	0.822	11366
MI1	141	13743	3642	10101	0.265	1568	1619	3554	1254	478	508	304	1.924	11551	2093	0.847	9654
MI1	153	8302	3456	4846	0.416	689	914	2397	821	322	344	156	1.978	6628	1593	0.806	9740
MI14	163	580977	580977	0	1.000	30956	75797	100538	75641	20103	27044	16135	2.056	383939	192424	0.666	11462
MS1	3	31722	11820	19902	0.373	4443	4627	6123	2810	761	1383	599	1.851	24568	6808	0.783	9301
MS1	9	8046	0	8046	0.000	1301	1294	1352	417	102	250	127	1.734	7261	765	0.905	6982
MS1	13	14908	0	14908	0.000	1913	2551	2804	1121	291	556	217	1.812	11745	2972	0.798	8806
MS1	17	18085	7170	10915	0.396	2073	3038	3123	1296	294	784	253	1.831	14299	3649	0.797	8725
MS1	19	9071	0	9071	0.000	1020	1337	1737	708	154	419	183	1.883	7681	1185	0.866	8076
MS1	33	67910	36018	31892	0.530	4556	7387	14929	8655	2081	2763	1162	2.001	56506	11183	0.835	12509
MS1	43	1377	0	1377	0.000	136	183	315	133	43	22	21	1.873	1245	132	0.904	9064
MS1	57	20017	3387	16630	0.169	2987	3547	3286	1595	530	626	236	1.766	16656	2762	0.858	9476
MS1	71	31826	9984	21842	0.314	2242	2644	3496	2541	680	2473	2311	2.275	18251	9148	0.666	9196
MS1	81	65581	34842	30739	0.531	5277	7837	11400	7901	2224	4118	2018	2.050	47763	17035	0.737	11702
MS1	93	30361	7261	23100	0.239	3968	4539	4932	2165	369	1105	551	1.813	24030	5537	0.813	7599
MS1	95	36582	13930	22652	0.381	4490	5425	6691	3146	725	1351	523	1.836	28897	7346	0.797	8979
MS1	97	3747	2019	1728	0.539	518	569	783	340	71	145	44	1.818	2802	812	0.775	7552
MS1	105	2128	0	2128	0.000	284	332	448	162	41	72	60	1.859	1868	260	0.878	8363
MS1	107	17557	5267	12290	0.300	1917	2276	3222	1479	539	682	326	1.896	13573	3459	0.797	8604
MS1	115	22237	4570	17667	0.206	2471	3469	4477	1939	474	822	302	1.853	18357	3753	0.830	9143
MS1	117	23278	9672	13606	0.415	2984	3784	3618	2050	730	723	485	1.840	18471	4254	0.813	8947
MS1	135	7785	0	7785	0.000	1201	1157	1248	573	149	243	78	1.750	5872	1845	0.761	6795
MS1	137	21432	4772	16660	0.223	2182	2717	3635	1908	637	946	528	1.941	15567	4981	0.758	9212
MS1	139	19523	5371	14152	0.275	2678	2864	3421	1492	613	736	352	1.836	15270	3935	0.795	8747
MS1	141	17683	3122	14561	0.177	2703	2613	3582	1634	488	534	249	1.803	13930	3578	0.796	8735
MS1	145	22085	6775	15310	0.307	2772	3250	4510	1709	449	927	497	1.871	17713	4234	0.807	9735
MS1	155	10222	0	10222	0.000	1284	1390	2064	829	201	441	255	1.889	7869	2199	0.782	8354
MS1	161	12033	3610	8423	0.300	1729	1669	2364	938	208	466	292	1.847	9602	2335	0.804	8049
MS2	7	6781	1571	5210	0.232	1017	1127	950	367	84	222	85	1.726	5110	1650	0.756	5960
MS2	11	41875	20785	21090	0.496	5247	4577	4439	3408	796	2128	1182	1.918	23193	16942	0.578	6889
MS2	15	9237	0	9237	0.000	1332	1324	1651	672	199	392	205	1.840	7317	1897	0.794	8241
MS2	21	11370	0	11370	0.000	1061	1182	1175	866	273	498	377	1.991	7223	2190	0.767	5932
MS2	27	31665	19717	11948	0.623	4228	3828	3194	2658	1025	1940	637	1.900	16763	14139	0.542	7197
MS2	43	20178	10864	9314	0.538	2549	2892	3453	1776	340	995	394	1.871	14073	5750	0.710	9129
MS2	49	51149	36186	14963	0.707	5086	6451	5765	5251	2148	2699	1711	2.007	36786	13953	0.725	7697
MS2	51	21604	2841	18763	0.132	2982	3057	2515	1438	500	721	410	1.797	14651	6546	0.691	5969

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MS2	53	12134	2536	9598	0.209	1906	1636	1336	776	265	438	248	1.778	6388	5705	0.528	7201
MS2	55	1909	0	1909	0.000	338	281	250	129	39	46	16	1.683	1336	573	0.700	6412
MS2	63	8653	0	8653	0.000	1160	1063	1197	710	110	257	232	1.844	6695	1955	0.774	5349
MS2	79	4363	1263	3100	0.289	616	638	701	278	46	173	94	1.811	3556	807	0.815	5833
MS2	83	37341	18906	18435	0.506	4930	4436	4558	2987	740	2149	1141	1.924	18650	17286	0.519	9003
MS2	89	27797	10062	17735	0.362	3611	3810	3592	1957	585	1174	550	1.839	19341	8136	0.704	7036
MS2	97	8641	3686	4955	0.427	934	1329	1557	682	205	371	170	1.883	6355	2286	0.735	7707
MS2	107	12439	1136	11303	0.091	1855	1845	1676	699	278	299	188	1.738	8232	4207	0.662	6030
MS2	119	10490	0	10490	0.000	1738	1503	1164	729	280	393	141	1.749	6586	3819	0.633	6450
MS2	125	7066	0	7066	0.000	995	793	957	418	55	360	94	1.806	4111	2907	0.586	6032
MS2	133	32867	15029	17838	0.457	4762	4532	3633	2479	626	1569	698	1.829	17514	12014	0.593	7067
MS2	135	7425	0	7425	0.000	1278	807	880	505	97	257	102	1.734	4272	3139	0.576	5537
MS2	143	8164	0	8164	0.000	1226	999	981	431	122	253	98	1.730	4229	3910	0.520	6449
MS2	149	47880	20908	26972	0.437	3999	5483	7020	5567	1656	3522	2064	2.107	34150	13250	0.720	10861
MS2	151	67935	55168	12767	0.812	7613	8031	9640	5566	1684	3527	1893	1.945	40333	27061	0.598	8704
MS2	163	25506	12430	13076	0.487	3212	3774	3583	2061	555	1233	558	1.869	16702	8430	0.665	7786
MO1	189	346739	342252	4487	0.987	20780	31569	63889	47091	11803	30668	19528	2.226	253288	86709	0.745	14810
MO1	510	221733	221733	0	1.000	21407	31717	33113	22186	4894	11601	8263	1.991	95730	118697	0.446	9228
MO2	183	127395	121399	5996	0.953	5587	7248	24948	18150	4993	13064	4777	2.260	99288	26459	0.790	15492
MO2	189	441054	428914	12140	0.972	14502	23315	68328	63621	16778	70318	36917	2.484	357270	76023	0.825	22145
NM2	1	3266	0	3266	0.000	298	384	649	246	74	41	31	1.833	2877	389	0.881	5790
NM2	3	2563	0	2563	0.000	197	262	536	324	77	194	127	2.139	1680	883	0.655	8537
NM2	5	57849	44654	13195	0.772	5725	5643	9479	6987	1937	3055	1897	2.029	39613	16762	0.703	10550
NM2	6	21776	8626	13150	0.396	1651	2417	4902	1849	649	691	408	1.955	16428	4621	0.780	7026
NM2	11	2252	0	2252	0.000	311	266	522	239	43	129	49	1.913	1568	639	0.710	8896
NM2	13	135510	100206	35304	0.739	13718	8558	18144	14962	3509	10308	6168	2.135	90445	40978	0.688	9374
NM2	15	48605	35506	13099	0.731	4698	5188	9994	5723	1327	2105	1181	1.976	34838	13149	0.726	10490
NM2	17	27676	13138	14538	0.475	2586	2370	4728	3716	651	1596	1164	2.084	19406	7693	0.716	9381
NM2	19	4156	0	4156	0.000	585	498	1060	209	56	105	51	1.787	2899	1234	0.701	6529
NM2	23	5958	2922	3036	0.490	523	461	1323	582	167	243	163	2.013	3743	2091	0.642	10092
NM2	25	55765	41113	14652	0.737	5439	6298	8875	6405	1642	2467	1257	1.963	40831	14364	0.740	10025
NM2	27	12219	4600	7619	0.376	794	1110	2694	2065	322	909	427	2.131	8554	3333	0.720	10701
NM2	29	18110	10970	7140	0.606	2541	2238	3594	1581	359	691	599	1.897	12399	5510	0.692	8116
NM2	35	51928	36102	15826	0.695	2288	3287	9971	8182	1981	2655	1875	2.182	31988	18363	0.635	10053
NM2	51	9912	6184	3728	0.624	1286	1428	2603	1275	257	386	247	1.910	7129	2444	0.745	10124
NM2	53	14764	8135	6629	0.551	1443	1387	2640	1423	251	844	631	2.052	10451	3874	0.730	9154
NM2	61	32458	24878	7580	0.766	2227	3262	7024	4163	857	1326	962	2.043	25598	5511	0.823	10373
NY6	81	581812	581812	0	1.000	42219	72367	115045	65237	20720	35356	18775	2.057	360423	211252	0.630	13150
NY18	5	21103	21103	0	1.000	1609	2209	5601	2292	488	1495	1280	2.144	15028	4908	0.754	18262
NY18	81	170326	170326	0	1.000	12038	14607	32985	19928	7238	20706	15576	2.334	74393	93496	0.443	17416

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NY18	119	389592	389592	0	1.000	22229	28968	71972	39669	14973	52621	46840	2.458	255899	124506	0.673	27774
NC1	13	19669	9055	10614	0.460	2434	2513	4290	1820	583	915	347	1.897	12799	6435	0.665	9979
NC1	15	20388	0	20388	0.000	2565	3233	4241	1236	539	759	275	1.821	15300	5023	0.753	8392
NC1	17	16165	3704	12461	0.229	2082	2481	2974	1357	602	565	206	1.834	12262	3575	0.774	9489
NC1	41	13506	5268	8238	0.390	1602	1715	2837	1176	610	790	318	1.952	9536	3690	0.721	10606
NC1	47	15079	3173	11906	0.210	1600	2167	3151	1346	373	588	319	1.902	11186	3765	0.748	8619
NC1	49	24782	13991	10791	0.565	2223	3067	4985	2787	1035	1218	477	1.977	16318	8067	0.669	9786
NC1	51	34061	28245	5816	0.829	2827	3804	5899	3390	1206	1995	907	2.026	17357	14961	0.537	8942
NC1	61	14354	2886	11468	0.201	1631	2332	2717	1247	608	411	148	1.838	10668	3222	0.768	9542
NC1	65	31133	18765	12368	0.603	3469	5036	6044	1945	776	939	298	1.807	17931	12949	0.581	8104
NC1	73	9305	0	9305	0.000	1026	1356	2070	791	394	315	133	1.880	7073	2157	0.766	11561
NC1	79	15384	0	15384	0.000	1866	2252	3100	1437	541	623	273	1.882	9687	4974	0.661	9567
NC1	83	33378	7328	26050	0.220	5374	5581	5567	1923	897	1083	287	1.731	19875	12276	0.618	7223
NC1	91	22523	7041	15482	0.313	2610	3293	4169	1788	729	1024	492	1.898	14945	6681	0.691	9016
NC1	103	4307	0	4307	0.000	371	567	929	391	251	250	117	2.018	3488	819	0.810	9834
NC1	107	26755	17118	9637	0.640	3040	4067	4968	2506	875	808	237	1.835	14571	11689	0.555	8595
NC1	117	17640	5503	12137	0.312	2458	2580	3145	1363	637	884	280	1.855	11184	6192	0.644	9091
NC1	127	15898	9426	6472	0.593	2094	2468	2908	1228	325	439	145	1.778	8020	7489	0.517	8918
NC1	129	22814	22549	265	0.988	2094	3540	3787	2161	810	1069	415	1.927	9581	12798	0.428	7895
NC1	131	20798	0	20798	0.000	3316	3176	4002	1384	669	885	322	1.804	15040	5006	0.750	8244
NC1	139	15976	9737	6239	0.609	1522	1941	2431	1638	476	985	232	1.957	8399	6327	0.570	9015
NC1	141	6755	16	6739	0.002	806	1163	1552	365	174	147	51	1.774	5795	915	0.864	8190
NC1	143	10447	0	10447	0.000	1086	1652	2314	1021	364	415	206	1.908	7736	2567	0.751	9821
NC1	147	60076	30980	29096	0.516	6120	7457	9931	5973	2148	3032	1625	1.972	33849	25240	0.573	9593
NC1	181	20429	11984	8445	0.587	2836	3333	3806	1307	520	805	211	1.790	11604	8550	0.576	8915
NC1	185	17265	0	17265	0.000	2590	2782	3661	1253	485	555	273	1.800	12425	4533	0.733	8502
NC1	187	13997	4328	9669	0.309	1789	1685	3086	1067	428	626	146	1.860	9894	3872	0.719	9827
NC1	191	101	0	101	0.000	25	8	38	12	10	0	0	1.774	73	28	0.723	44202
NC1	195	30441	20806	9635	0.683	4185	4912	5269	1753	582	989	310	1.761	13570	15429	0.468	7584
NC2	63	87323	77234	10089	0.884	2680	4715	11569	9129	4551	13434	10805	2.608	49982	31522	0.613	17474
NC2	65	25425	9444	15981	0.371	2854	3286	5659	2184	1162	1243	364	1.916	17031	7998	0.680	11277
NC2	69	36414	3122	33292	0.086	4013	4890	7817	3035	1740	1600	586	1.913	27083	8152	0.769	10959
NC2	77	31207	12592	18615	0.403	3722	3732	6292	3306	1602	1486	651	1.944	20420	7854	0.722	11163
NC2	83	22138	14051	8087	0.635	2244	3004	4445	1841	1261	1166	472	1.962	15501	6443	0.706	11629
NC2	85	67822	15793	52029	0.233	6468	8498	14021	5931	2687	2638	1326	1.937	45914	19411	0.703	10053
NC2	101	81306	19296	62010	0.237	9185	9723	17540	7130	3932	4335	1594	1.948	58703	21645	0.731	11839
NC2	105	41374	14475	26899	0.350	3127	4292	8654	4566	2405	2810	1021	2.072	30272	10382	0.745	12042
NC2	125	43870	16932	26938	0.386	2440	3913	8036	6653	2664	5274	2223	2.267	33961	9211	0.787	16253
NC2	127	60779	27905	32874	0.459	5978	6864	12827	5790	2516	4823	1426	2.024	41354	18571	0.690	13668
NC2	181	18463	3777	14686	0.205	1926	2367	3534	1610	817	940	358	1.944	13774	4115	0.770	12163

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NC2	183	788	0	788	0.000	95	99	195	66	23	53	16	1.942	633	155	0.803	14183
NC2	195	35620	16124	19496	0.453	2866	3882	7057	3559	1837	3454	1295	2.127	26111	9283	0.738	15109
NC3	13	22614	3905	18709	0.173	1935	2603	5032	2539	1059	1229	528	2.014	18860	3661	0.837	11367
NC3	29	5904	16	5888	0.003	543	812	1312	699	241	274	130	1.970	4949	920	0.843	10465
NC3	31	52556	12423	40133	0.236	3396	5372	11068	7558	2606	3964	1832	2.132	39545	12015	0.767	13227
NC3	49	56831	27919	28912	0.491	2411	4106	10429	8039	2436	4067	1620	2.183	34073	19560	0.635	12418
NC3	53	13736	0	13736	0.000	1196	1748	3351	1688	383	519	232	1.948	11173	2325	0.828	12630
NC3	55	22746	4238	18508	0.186	956	2052	4720	3794	922	2418	961	2.238	15555	6983	0.690	15107
NC3	61	25641	2915	22726	0.114	3013	4232	5265	1975	990	769	374	1.842	19491	6008	0.764	9329
NC3	95	5411	0	5411	0.000	534	908	1271	414	199	182	97	1.887	3954	1426	0.735	9434
NC3	103	5107	0	5107	0.000	513	848	1042	464	239	120	10	1.826	3965	1142	0.776	7987
NC3	107	30519	10982	19537	0.360	3395	3343	6016	3465	1322	2306	921	2.029	21577	7784	0.735	12446
NC3	117	7438	0	7438	0.000	857	855	1667	724	343	287	90	1.904	6133	1292	0.826	10424
NC3	133	57318	35148	22170	0.613	2916	4636	11171	7580	2537	2601	1073	2.082	35692	21062	0.629	10256
NC3	137	11372	0	11372	0.000	930	1743	2419	1252	578	636	276	1.999	9302	1950	0.827	10665
NC3	139	15322	4526	10796	0.295	1390	1436	3021	1878	757	999	556	2.085	11290	3854	0.746	12495
NC3	141	15837	0	15837	0.000	1541	2305	3407	1644	641	739	295	1.940	12570	2945	0.810	10652
NC3	147	47848	33800	14048	0.706	1815	2665	5427	4949	2184	5451	3548	2.450	29161	14330	0.671	14215
NC3	163	47297	8204	39093	0.173	5109	6705	10032	4167	2024	1686	773	1.896	34495	12263	0.738	9480
NC3	177	3856	0	3856	0.000	555	504	838	318	115	151	40	1.826	3048	808	0.790	7884
NC3	191	104565	64565	40000	0.617	8536	10508	20811	12737	5045	5837	2591	2.044	62649	34908	0.642	10811
NC4	37	38759	4808	33951	0.124	3542	4504	8113	3536	1895	3280	1957	2.120	29738	8581	0.776	13321
NC4	135	91090	55436	35654	0.609	3627	4953	9543	6652	3256	12153	12782	2.659	50630	31264	0.618	15862
NC4	183	422592	322129	100463	0.762	14705	24838	57722	54496	23395	66218	29466	2.455	271616	135701	0.667	17200
NC5	5	9590	0	9590	0.000	1751	1467	1797	852	308	363	247	1.814	7408	1969	0.790	10237
NC5	9	22209	0	22209	0.000	3720	3161	4880	1822	641	786	476	1.820	18405	3558	0.838	9545
NC5	23	44653	15155	29498	0.339	5165	5930	8068	4580	2353	2462	1285	1.974	31808	10613	0.750	11785
NC5	27	21325	10781	10544	0.506	3161	3572	3844	1876	504	764	268	1.791	15016	5981	0.715	10185
NC5	33	20693	0	20693	0.000	2993	3282	4394	1604	750	606	311	1.811	16248	3804	0.810	9817
NC5	67	154766	124171	30595	0.802	8958	12844	29415	18819	7178	17815	8937	2.275	98914	49823	0.665	16613
NC5	77	7138	0	7138	0.000	1000	1266	1440	531	240	231	78	1.792	5234	1709	0.754	9959
NC5	81	3820	0	3820	0.000	396	505	864	358	149	159	62	1.919	3280	460	0.877	11413
NC5	145	30180	7332	22848	0.243	3308	4068	6964	2565	1632	1121	395	1.902	22471	7382	0.753	11158
NC5	157	86064	27421	58643	0.319	10754	12713	17482	8305	3160	3533	1547	1.881	64757	20495	0.760	11546
NC5	169	37223	4059	33164	0.109	4285	4814	9670	2485	1409	1383	392	1.869	30439	6408	0.826	12181
NC5	171	61704	10876	50828	0.176	9077	8647	11768	5870	2246	2677	1217	1.863	47958	13014	0.787	11342
NC5	189	36952	12915	24037	0.350	2794	2772	4572	3231	1084	3063	2389	2.252	22599	9895	0.695	10628
NC5	193	16020	5907	10113	0.369	2455	1944	2427	1691	628	1108	572	1.960	11071	4507	0.711	12757
NC6	1	83936	57981	25955	0.691	6561	9732	16539	9392	4382	7109	2536	2.094	60437	20875	0.743	14134
NC6	57	103208	21121	82087	0.205	9492	14231	23258	10191	4579	5049	1822	1.955	82671	19436	0.810	12894

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NC6	59	15579	3399	12180	0.218	1534	2035	3912	1441	565	851	243	1.946	12306	2991	0.804	12083
NC6	81	207725	141707	66018	0.682	9459	16207	34875	27041	8996	30089	12617	2.352	148312	52841	0.737	18295
NC6	151	106546	33212	73334	0.312	11317	15336	24660	8733	3765	4776	1639	1.902	84741	20756	0.803	12102
NC6	159	35669	3055	32614	0.086	2429	4322	7821	3848	1829	2248	896	2.057	28996	5134	0.850	12974
NC7	17	12498	0	12498	0.000	1539	1914	2328	1137	561	453	190	1.865	10110	2201	0.821	9508
NC7	19	50985	6625	44360	0.130	4013	6701	11581	6268	2460	2657	1075	2.007	41266	9241	0.817	11688
NC7	47	34508	1905	32603	0.055	4654	4537	6995	2861	1319	1361	618	1.868	25857	8170	0.760	9359
NC7	51	176224	146736	29488	0.833	6719	12023	30612	22845	7593	11148	5148	2.190	91081	65767	0.581	11594
NC7	129	97470	84047	13423	0.862	3185	8227	18791	13599	5235	10866	4191	2.280	67010	27532	0.709	15259
NC7	133	92520	66020	26500	0.714	1396	3402	15659	11209	2542	4555	1547	2.214	26609	31937	0.454	10996
NC7	141	6263	0	6263	0.000	360	659	1295	863	307	674	341	2.230	5489	774	0.876	17029
NC7	155	81569	18760	62809	0.230	9043	11308	13199	6173	2462	3870	1646	1.900	58149	21552	0.730	9145
NC8	7	23474	3645	19829	0.155	2576	3264	5701	1527	752	760	334	1.864	17630	5473	0.763	9402
NC8	25	98935	58673	40262	0.593	8865	12354	19797	11121	4987	5822	2193	2.007	73822	23405	0.759	13552
NC8	51	64281	62914	1367	0.979	1359	3112	10766	10221	3882	4332	1636	2.260	40757	23524	0.634	10889
NC8	93	22856	3394	19462	0.148	2492	3385	3726	1888	667	861	248	1.848	16528	5056	0.766	8688
NC8	97	11061	5119	5942	0.463	837	1429	2383	1303	475	531	230	2.000	8010	2810	0.740	12646
NC8	119	3193	1254	1939	0.393	76	137	370	507	105	578	492	2.705	2532	416	0.859	20035
NC8	123	23346	3404	19942	0.146	3010	3672	4407	1835	861	734	428	1.842	17126	5130	0.770	10695
NC8	125	15143	0	15143	0.000	1875	2333	3183	1121	653	458	222	1.844	12421	2388	0.839	11114
NC8	153	44518	19753	24765	0.444	4866	6357	9315	3669	1892	1510	721	1.886	32443	11087	0.745	9841
NC8	155	23610	3746	19864	0.159	2757	3314	4180	1721	600	853	388	1.851	16998	6406	0.726	7953
NC8	159	51892	30287	21605	0.584	5636	7616	11114	4975	2281	2280	904	1.915	38384	12874	0.749	11581
NC8	165	33754	11636	22118	0.345	3486	4390	5978	2413	1048	2033	703	1.944	23564	9099	0.721	9768
NC8	167	51765	14939	36826	0.289	5066	7727	10917	4745	2110	2349	820	1.920	39305	11419	0.775	11265
NC8	179	84211	29970	54241	0.356	5690	10384	17011	8787	3221	4770	2063	2.035	63855	18805	0.773	13135
NC9	45	42539	8067	34472	0.190	4599	5751	8851	3524	1912	1717	774	1.913	33211	8237	0.801	11495
NC9	71	163463	110242	53221	0.674	17341	22963	28541	17175	7397	8597	3175	1.944	117633	43837	0.729	12745
NC9	119	346488	299666	46822	0.865	7913	19445	48132	53544	21090	60451	20390	2.466	249231	91187	0.732	20057
NC10	3	27544	3200	24344	0.116	3270	4058	6313	1799	1018	1024	383	1.857	22833	4416	0.838	11624
NC10	11	14867	0	14867	0.000	1794	1777	2811	1484	416	725	445	1.948	11625	2277	0.836	9729
NC10	21	15480	5446	10034	0.352	880	1178	2980	2078	1000	1640	826	2.269	13146	2168	0.858	15573
NC10	23	31091	9114	21977	0.293	4248	4673	6164	2627	1089	1077	502	1.838	24504	6411	0.793	11343
NC10	27	49384	16928	32456	0.343	5822	7581	9678	4539	1886	2072	1030	1.896	38687	10290	0.790	12099
NC10	35	118412	70668	47744	0.597	10001	15879	23284	11684	5850	8410	2602	2.020	88819	27560	0.763	13764
NC10	59	12280	0	12280	0.000	944	1264	2522	1381	608	1265	432	2.143	10561	1694	0.862	17902
NC10	67	57809	31656	26153	0.548	2263	3656	10798	7183	3268	8447	3923	2.395	48580	8829	0.846	20317
NC10	89	6841	2787	4054	0.407	391	761	1472	909	421	642	179	2.140	5521	1204	0.821	13440
NC10	97	60536	13257	47279	0.219	4941	7519	13121	6765	3130	3978	1608	2.043	47650	12379	0.794	14299
NC10	109	50319	6847	43472	0.136	5169	7215	9650	4993	2149	2529	912	1.936	40183	9597	0.807	12440

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District	County	Population	Urban	Rural	Percent	Less than	Some	High Sch.	Some	Associate	Bachelor	Graduate	Education	Owner	Renter	% Owner	Per Capita
					Urban	9 Years	High Sch.	Diploma	College	Degree	Degree	School	Quotient	Occupied	Occupied	Occupied	Income
NC10	111	8746	0	8746	0.000	872	1329	2128	667	371	319	101	1.885	7212	1386	0.839	10213
NC10	121	14433	0	14433	0.000	2497	1977	2875	1266	476	597	328	1.832	12084	2210	0.845	10219
NC10	149	1329	0	1329	0.000	132	149	358	90	24	14	55	1.942	1078	251	0.811	9111
NC10	161	9371	0	9371	0.000	1151	1354	1899	954	348	385	182	1.894	7478	1834	0.803	11528
NC10	193	43373	90	43283	0.002	6727	7002	8227	3503	1463	1241	547	1.781	37014	6212	0.856	10099
NC10	197	30488	2525	27963	0.083	4109	4478	6686	2621	1496	1062	420	1.854	24651	5416	0.820	11843
NC11	21	159341	102425	56916	0.643	11112	17381	32743	19316	8238	13294	7149	2.153	112629	41800	0.729	12981
NC11	39	20170	2551	17619	0.126	2604	2937	4544	1878	750	708	403	1.876	16351	3546	0.822	9258
NC11	43	7155	0	7155	0.000	951	906	1606	663	249	409	219	1.947	6167	988	0.862	9456
NC11	45	42175	14609	27566	0.346	3987	5797	8380	3977	2208	2511	1133	2.000	29995	11544	0.722	12259
NC11	75	7196	0	7196	0.000	1176	886	1521	498	222	266	212	1.855	5983	1195	0.834	8877
NC11	87	46942	10566	36376	0.225	5229	5368	10730	4992	2550	2810	1428	2.008	36356	9797	0.788	11731
NC11	89	62444	10534	51910	0.169	4500	6161	13995	8276	3079	5918	2946	2.175	48113	13378	0.782	13730
NC11	99	26846	4029	22817	0.150	2399	2657	4641	2473	817	1693	1489	2.122	18863	4942	0.792	10326
NC11	111	26935	4765	22170	0.177	3595	4112	5593	2257	1039	915	589	1.863	20458	6021	0.773	10614
NC11	113	23499	2835	20664	0.121	2538	3140	5473	2576	1092	1511	738	2.004	19441	3550	0.846	11017
NC11	115	16953	0	16953	0.000	2522	2348	3318	1252	463	789	475	1.874	12718	3396	0.789	9149
NC11	149	13087	0	13087	0.000	1472	1455	2497	1734	534	1354	697	2.128	10612	2255	0.825	14731
NC11	161	47547	15132	32415	0.318	5459	7209	9261	4344	1741	2125	989	1.903	34594	12283	0.738	11239
NC11	173	11268	0	11268	0.000	1395	1638	2134	994	496	488	244	1.900	8358	2345	0.781	8922
NC11	175	25520	5388	20132	0.211	2093	2749	5632	2833	926	2091	1020	2.106	19621	4713	0.806	12737
NC11	199	15419	0	15419	0.000	2219	1944	3476	1256	636	739	319	1.888	12476	2777	0.818	9462
NC12	1	24277	13308	10969	0.548	2767	4204	5224	2237	805	738	186	1.827	17858	6081	0.746	10375
NC12	57	23469	18981	4488	0.809	2686	3585	4348	2253	748	1161	334	1.887	12282	10981	0.528	11289
NC12	63	94512	77523	16989	0.820	7030	10102	14153	9863	3807	8748	5923	2.216	50560	41358	0.550	12772
NC12	67	53303	43432	9871	0.815	4681	7149	10993	5085	1677	2603	810	1.942	28192	23145	0.549	10289
NC12	71	11630	11630	0	1.000	1495	2084	1882	857	258	281	84	1.749	5956	5367	0.526	8261
NC12	81	135875	131249	4626	0.966	10597	16817	23763	15221	4487	9419	3566	2.043	66699	63730	0.511	11017
NC12	97	21334	8508	12826	0.399	2345	3556	4265	1607	561	680	230	1.826	13931	7325	0.655	9498
NC12	119	161752	159707	2045	0.987	11246	22089	27803	18934	5579	8899	2823	1.998	71081	85482	0.454	10107
NC12	135	2761	0	2761	0.000	168	250	586	308	195	193	113	2.166	2184	577	0.791	12940
NC12	159	23044	12324	10720	0.535	1881	3045	4665	2187	1126	1564	707	2.045	14143	7586	0.651	11524
OH6	9	59549	28475	31074	0.478	2455	5207	9638	4082	1732	3430	3635	2.249	33159	17862	0.650	9170
OH6	27	35415	18067	17348	0.510	1954	3685	9415	3452	911	1723	829	2.041	24661	9903	0.713	11736
OH6	53	30954	4831	26123	0.156	3235	3781	7396	2249	795	1283	847	1.939	22586	7296	0.756	9711
OH6	71	35728	11407	24321	0.319	3018	4619	9570	2772	929	1308	568	1.924	26010	9245	0.738	9848
OH6	73	25533	6725	18808	0.263	1659	3604	6979	2022	771	889	444	1.952	19467	5441	0.782	10265
OH6	79	30230	12193	18037	0.403	3042	4444	7510	2038	598	939	565	1.875	21888	7996	0.732	9228
OH6	87	61834	33792	28042	0.546	5180	8202	16074	4975	1553	2001	1234	1.929	45511	15591	0.745	9336
OH6	105	22987	2737	20250	0.119	2258	3056	6368	1365	651	722	352	1.885	18232	4501	0.802	8644

			Place of Residence			EDUCATIONAL ATTAINMENT (universe: 25 yrs. and older)								Housing Status			
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					Urban	9 Years	High Sch.	Diploma	College	Degree	Degree	School	Quotient	Occupied	Occupied	Occupied	Income
OH6	131	24249	4477	19772	0.185	2719	3204	5645	1652	678	712	489	1.876	16830	6966	0.707	8958
OH6	141	41816	19846	21970	0.475	3159	6151	10758	3313	1074	1676	853	1.945	29368	11951	0.711	10947
OH6	145	80327	34127	46200	0.425	8456	10240	18029	7753	2727	2742	1638	1.917	54609	22278	0.710	9253
OH6	163	11098	0	11098	0.000	1147	1729	2917	619	215	227	109	1.813	8823	2162	0.803	8826
OH6	165	48830	29255	19575	0.599	3295	4292	10342	5447	1895	4075	2070	2.162	37100	10980	0.772	15309
OH6	167	62254	24598	37656	0.395	3214	5876	17557	6082	2336	3586	1760	2.090	47694	13057	0.785	11438
OK1	143	503341	481303	22038	0.956	17401	41540	89073	77103	21077	53656	22782	2.282	321952	170533	0.654	14742
OK1	145	20794	12227	8567	0.588	768	1601	4265	3338	761	1329	518	2.160	16419	4300	0.792	13564
OK6	3	6416	0	6416	0.000	401	642	1752	804	203	583	212	2.128	4509	1232	0.785	9999
OK6	7	6023	0	6023	0.000	418	561	1380	843	148	455	157	2.090	4596	1363	0.771	11910
OK6	9	18812	13308	5504	0.707	1662	2424	3947	2054	594	877	627	2.006	12612	5862	0.683	10400
OK6	11	11470	3408	8062	0.297	812	1345	2984	1133	291	525	402	2.036	8578	2626	0.766	9787
OK6	15	29550	6586	22964	0.223	2955	3371	6971	2851	382	1329	841	1.961	21023	7950	0.726	8735
OK6	17	33026	25994	7032	0.787	1837	3042	7049	5156	1432	1679	749	2.087	23005	7989	0.742	11817
OK6	25	3301	0	3301	0.000	347	289	707	473	46	225	107	2.040	2384	877	0.731	9929
OK6	39	26897	19418	7479	0.722	1657	2207	4599	3216	648	1717	1443	2.192	16696	8584	0.660	10461
OK6	43	5551	0	5551	0.000	531	666	1397	562	159	305	150	1.990	4441	1019	0.813	9726
OK6	45	4497	0	4497	0.000	422	390	1155	630	67	287	145	2.049	3508	923	0.792	10082
OK6	47	56735	45036	11699	0.794	3080	5674	13587	6900	1592	4444	2017	2.136	38123	16894	0.693	11564
OK6	53	5689	0	5689	0.000	326	546	1445	801	214	447	169	2.125	4239	1348	0.759	11255
OK6	55	6559	3344	3215	0.510	743	893	1465	876	195	326	136	1.941	4175	1539	0.731	9089
OK6	57	3793	2554	1239	0.673	554	481	733	370	71	153	105	1.877	2501	1129	0.689	7817
OK6	59	4063	0	4063	0.000	334	339	1098	549	117	290	94	2.060	3079	905	0.773	11752
OK6	73	13212	4095	9117	0.310	896	1130	3379	1601	364	832	311	2.068	10200	2805	0.784	11141
OK6	75	11347	4305	7042	0.379	1193	1457	2477	1371	227	524	318	1.960	8289	2754	0.751	9213
OK6	93	8055	2805	5250	0.348	834	724	2025	887	190	555	147	1.994	6323	1621	0.796	10745
OK6	109	209556	209399	157	0.999	12401	25990	39965	30498	6201	10163	4973	2.042	128131	75889	0.628	10377
OK6	129	4147	0	4147	0.000	285	468	1069	517	105	154	104	2.009	3168	950	0.769	9886
OK6	139	16419	7803	8616	0.475	960	1518	3527	2118	467	1162	370	2.093	11514	4473	0.720	11096
OK6	149	11441	2903	8538	0.254	1063	1482	2764	1252	228	515	326	1.972	8182	3024	0.730	9642
OK6	151	9103	5492	3611	0.603	694	734	1563	1416	161	901	502	2.214	6542	2045	0.762	12261
OK6	153	18976	12340	6636	0.650	1239	1976	4587	2319	385	1144	427	2.045	13553	4659	0.744	11000
PA8	17	541174	440554	100620	0.814	18319	42154	120890	60131	23998	57504	30133	2.298	435987	97070	0.818	18292
PA8	91	24646	22475	2171	0.912	490	1257	5040	3181	1372	3390	1804	2.445	18596	5652	0.767	20187
PA9	9	47919	3137	44782	0.065	4170	5776	15229	2760	1159	1655	806	1.920	38263	9362	0.803	9954
PA9	13	130542	84835	45707	0.650	7621	14117	42396	9677	3961	5780	3318	2.025	97286	30348	0.762	11233
PA9	27	14643	3048	11595	0.208	1203	1599	4668	808	356	686	386	1.983	11966	2470	0.829	11008
PA9	33	78038	17843	60195	0.229	6647	8698	24870	4414	2377	2928	1496	1.946	62336	14632	0.810	10432
PA9	55	121082	34980	86102	0.289	10621	13806	34056	8263	3102	5861	4019	2.000	90010	28431	0.760	13060
PA9	57	13837	0	13837	0.000	1363	1816	4062	669	263	411	239	1.877	11035	2726	0.802	10267

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District	County	Population	Urban	Rural	Percent Urban	Less than 9 Years	Some High Sch.	High Sch. Diploma	Some College	Associate Degree	Bachelor Degree	Graduate School	Education Quotient	Owner Occupied	Renter Occupied	% Owner Occupied	Per Capita Income
PA9	61	44164	9721	34443	0.220	3393	4843	13918	2546	1198	1662	1038	1.971	31432	8557	0.786	10471
PA9	67	20625	0	20625	0.000	2269	2406	6219	1047	504	626	347	1.878	16218	4053	0.800	10759
PA9	87	46197	9341	36856	0.202	4380	5266	14749	2232	1070	1623	1019	1.926	34677	11025	0.759	10609
PA9	99	12131	0	12131	0.000	879	1384	3635	668	327	463	266	1.968	10075	1847	0.845	11464
PA9	109	36680	5384	31296	0.147	4123	3932	9799	1575	812	1422	975	1.915	27470	7066	0.795	10859
PA11	25	56846	29795	27051	0.524	4657	7286	18535	3475	1812	2005	1279	1.950	45593	10566	0.812	11729
PA11	37	63202	23418	39784	0.371	4020	6622	17843	4400	1762	3044	1898	2.038	45691	13874	0.767	10959
PA11	79	328149	239215	88934	0.729	25672	37779	92893	28017	12627	18621	10954	2.041	236420	81074	0.745	12002
PA11	89	54019	15938	38081	0.295	2594	5574	14281	5014	1708	4106	2186	2.147	41027	11097	0.787	13820
PA11	93	17735	7968	9767	0.449	1233	1738	4920	1169	667	1089	1151	2.160	12936	3577	0.783	13769
PA11	97	45851	25208	20643	0.550	5354	6336	14658	2280	1143	1555	854	1.872	36778	8468	0.813	10150
SC1	15	110408	83910	26498	0.760	4485	8723	22120	14369	4907	5745	2061	2.113	75657	34256	0.688	11486
SC1	19	210566	195549	15017	0.929	7542	15416	33550	28693	9704	22981	12290	2.341	124882	73298	0.630	15132
SC1	35	70116	55421	14695	0.790	2866	5279	13150	9210	3078	5288	2700	2.217	49818	18388	0.730	12444
SC1	43	46302	16142	30160	0.349	4832	5444	8381	4041	1287	2973	1473	2.001	36709	9392	0.796	11084
SC1	51	144053	85807	58246	0.596	8899	15509	30078	19024	6224	10610	4564	2.115	98195	42321	0.699	12385
SC2	3	17691	828	16863	0.047	1542	2067	3910	1468	604	746	244	1.936	14296	2942	0.829	10504
SC2	5	11722	4410	7312	0.376	1722	1567	2058	575	314	462	192	1.803	7415	3258	0.695	7458
SC2	11	20293	11041	9252	0.544	2280	2596	3831	1466	545	1031	411	1.911	14782	5227	0.739	10611
SC2	13	83231	58201	25030	0.699	2699	5044	13801	11694	3299	9583	4168	2.343	49208	27187	0.644	15509
SC2	17	9410	0	9410	0.000	874	1318	2006	704	393	447	211	1.951	7586	1725	0.815	9947
SC2	29	13839	2576	11263	0.186	989	1978	3094	1105	550	738	202	1.967	10784	2927	0.787	10156
SC2	49	18191	3072	15119	0.169	2160	2218	3745	1201	397	630	308	1.857	13510	4608	0.746	8578
SC2	53	15487	0	15487	0.000	1982	2180	3210	974	369	223	217	1.783	11992	3248	0.787	7984
SC2	63	167611	99361	68250	0.593	8995	15232	32295	19179	8532	14965	7365	2.208	130996	35233	0.788	14259
SC2	75	35250	8973	26277	0.255	2970	4305	6640	3135	1592	2016	1304	2.049	27305	7572	0.783	10852
SC2	79	187899	158451	29448	0.843	4497	9599	25881	25016	10450	26472	14375	2.494	115371	54527	0.679	15704
SC5	21	44506	16423	28083	0.369	6412	5651	9044	3160	1296	1804	811	1.845	33070	10924	0.752	10406
SC5	23	32170	7040	25130	0.219	4049	4603	6625	2099	874	1191	630	1.854	24518	7523	0.765	9806
SC5	25	38577	8526	30051	0.221	5540	5570	7452	2512	1169	1336	521	1.804	28980	9232	0.758	9455
SC5	31	49767	15521	34246	0.312	5303	6372	10164	3479	1813	2763	1129	1.945	38289	10541	0.784	10894
SC5	33	29114	6829	22285	0.235	3870	4279	5218	1635	682	884	580	1.812	19688	9137	0.683	8077
SC5	39	22295	3600	18695	0.161	2725	2993	4555	1467	598	995	309	1.858	17351	4519	0.793	9011
SC5	55	43599	9865	33734	0.226	3788	5272	10142	3820	1595	2344	1162	2.000	36319	6855	0.841	11937
SC5	57	54516	11579	42937	0.212	5859	7922	11475	4163	1696	2127	1175	1.900	40862	13266	0.755	11041
SC5	61	10768	1960	8808	0.182	1355	1620	2189	668	125	303	177	1.801	8523	2127	0.800	8254
SC5	69	29361	12030	17331	0.410	4347	4421	5375	1750	570	970	441	1.777	19607	9060	0.684	7948
SC5	71	33172	10539	22633	0.318	3649	4410	7121	2166	1280	1883	766	1.941	24551	7839	0.758	10487
SC5	85	61832	38193	23639	0.618	3246	4430	10600	8903	3204	4664	2517	2.215	36819	18887	0.661	11875
SC5	91	131497	74824	56673	0.569	11353	15191	22217	13420	5765	9334	4473	2.068	94658	33148	0.741	13306

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					Urban	9 Years	High Sch.	Diploma	College	Degree	Degree	School	Quotient	Occupied	Occupied	Occupied	Income
SC6	9	16902	7383	9519	0.437	1889	1999	2704	1284	577	609	460	1.921	11523	4398	0.724	8438
SC6	13	3194	0	3194	0.000	360	570	490	239	93	69	16	1.762	2751	443	0.861	7488
SC6	15	18368	0	18368	0.000	2148	2621	3702	1053	462	521	137	1.796	16165	1560	0.912	7677
SC6	17	3343	0	3343	0.000	472	442	654	212	126	237	61	1.901	2654	689	0.794	10084
SC6	19	84473	64029	20444	0.758	9104	11941	13455	7324	2521	3111	1726	1.890	45860	34859	0.568	7924
SC6	27	28450	4428	24022	0.156	3662	4216	5234	1846	734	1292	483	1.846	21850	6349	0.775	8181
SC6	29	20538	2916	17622	0.142	2441	2781	3991	1694	695	794	310	1.870	17060	3340	0.836	8543
SC6	31	12084	4968	7116	0.411	1241	1608	2449	899	391	611	266	1.935	9158	2782	0.767	8926
SC6	35	12944	0	12944	0.000	1686	1727	2899	821	306	329	271	1.836	10880	1974	0.846	8854
SC6	41	114344	59855	54489	0.523	11001	13980	21073	9524	4065	7165	3193	2.000	81477	30247	0.729	11007
SC6	61	7669	1600	6069	0.209	1055	1065	1465	447	143	306	30	1.770	5911	1729	0.774	6607
SC6	67	33899	13568	20331	0.400	3935	5160	6663	1883	866	1283	572	1.844	23634	10006	0.703	8185
SC6	75	49553	16314	33239	0.329	5638	5984	8236	3173	1678	2188	1353	1.926	32582	13716	0.704	7689
SC6	79	97821	83228	14593	0.851	8844	12975	15573	9318	3464	5431	2594	1.989	53661	36038	0.598	8515
SC6	85	40805	22292	18513	0.546	4922	5851	6646	2922	1193	1355	603	1.831	25765	13615	0.654	7152
SC6	89	36815	3862	32953	0.105	4367	5047	6770	2129	779	1500	607	1.846	29125	7541	0.794	7632
TN7	21	27140	2552	24588	0.094	2364	3631	5951	2693	696	1298	502	1.950	23029	3784	0.859	11868
TN7	23	12819	4760	8059	0.371	1872	1650	2304	936	314	398	279	1.826	9266	2500	0.788	8281
TN7	39	10472	0	10472	0.000	1917	1449	2479	798	166	235	110	1.734	8469	1863	0.820	9345
TN7	43	35061	8791	26270	0.251	4115	4415	8311	2642	641	1296	741	1.884	27137	7412	0.785	11162
TN7	47	25559	0	25559	0.000	3549	3408	5000	2032	397	805	439	1.817	18793	6333	0.748	9627
TN7	69	23377	5969	17408	0.255	3192	3650	4622	1602	394	729	376	1.798	16588	6020	0.734	8650
TN7	77	21844	5810	16034	0.266	3592	2881	4573	1905	498	699	285	1.789	17743	3887	0.820	9564
TN7	81	16754	3616	13138	0.216	2639	2338	3671	1492	269	523	284	1.803	13195	2476	0.842	9723
TN7	101	9247	3760	5487	0.407	1634	1231	1962	624	159	172	124	1.730	7057	2050	0.775	8180
TN7	109	22422	3838	18584	0.171	3404	3033	5859	1645	379	489	296	1.786	17811	4376	0.803	9185
TN7	119	54812	32434	22378	0.592	5820	6522	11460	5699	1720	2755	1539	1.973	39174	14954	0.724	11942
TN7	125	100498	75857	24641	0.755	5521	7314	19149	13384	3134	6544	3021	2.143	60315	33153	0.645	11056
TN7	135	6612	0	6612	0.000	1167	929	1489	424	115	187	121	1.766	5564	904	0.860	9260
TN7	147	6824	1891	4933	0.277	397	993	1792	616	181	333	145	1.994	5674	1150	0.831	14247
TN7	157	168829	160646	8183	0.952	2418	6539	23622	28619	7082	26620	11863	2.518	129072	38593	0.770	20833
TN9	157	541710	540868	842	0.998	38238	63728	91476	69372	13394	36574	21343	2.099	311696	214795	0.592	11296
TX1	37	81665	50184	31481	0.615	5015	9593	16285	10987	3029	4842	2654	2.088	56929	22463	0.717	11846
TX1	63	9904	4007	5897	0.405	1080	1289	2146	1103	273	400	252	1.938	7030	2769	0.717	9936
TX1	67	29982	6118	23864	0.204	2534	3965	7024	3309	810	1124	631	1.954	22919	6664	0.775	9391
TX1	119	4857	0	4857	0.000	451	717	1009	554	127	178	229	2.009	3517	1195	0.746	9859
TX1	159	7802	605	7197	0.078	726	1116	1570	1010	226	369	225	1.981	5573	2091	0.727	12370
TX1	183	34016	30449	3567	0.895	2148	3735	5562	5065	1332	3159	1595	2.189	20880	12190	0.631	13899
TX1	203	57483	25343	32140	0.441	4118	6486	11942	7008	1690	2962	1575	2.038	42047	14043	0.750	10173
TX1	223	28833	14062	14771	0.488	2475	4427	6288	2876	440	1196	891	1.959	20099	8336	0.707	11049

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					Urban	9 Years	High Sch.	Diploma	College	Degree	Degree	School	Quotient	Occupied	Occupied	Occupied	Income
TX1	231	35718	17866	17852	0.500	2700	4715	6807	3963	751	1899	1536	2.057	24091	10402	0.698	10726
TX1	277	43949	24702	19247	0.562	3837	5403	8341	5515	1491	2282	1378	2.022	30285	12713	0.704	10511
TX1	315	9984	0	9984	0.000	952	1796	2232	1106	288	350	177	1.895	7928	1992	0.799	9197
TX1	343	13200	2572	10628	0.195	918	1804	2807	1775	445	588	320	2.009	9574	3394	0.738	10344
TX1	347	43355	21938	21417	0.506	2394	3695	5741	4741	1051	3124	2065	2.207	25765	13286	0.660	10327
TX1	365	22035	6496	15539	0.295	1984	2557	4301	2787	688	981	704	2.012	17612	4082	0.812	10695
TX1	387	14317	4311	10006	0.301	1821	2340	3191	1357	257	450	260	1.839	10370	3643	0.740	8482
TX1	401	43735	14000	29735	0.320	3734	5703	8432	5532	1819	1850	1168	1.996	33794	9328	0.784	10127
TX1	449	24009	12291	11718	0.512	1942	3213	4800	2559	559	1134	693	1.993	16824	6679	0.716	11163
TX1	459	31370	7104	24266	0.226	2305	4224	6418	3926	1210	1152	603	1.976	24464	6118	0.800	10254
TX1	499	29380	6445	22935	0.219	2558	4322	6615	3874	757	1214	709	1.963	22701	5741	0.798	10937
TX10	453	566357	521406	44951	0.921	24948	32528	66343	81840	17981	76470	41551	2.433	284680	262433	0.520	14978
TX11	27	191088	153911	37177	0.805	9272	13377	32798	26042	8315	12472	6134	2.179	99769	82065	0.549	10908
TX11	35	15125	3195	11930	0.211	1586	2206	3399	1817	395	799	345	1.948	10881	3844	0.739	10992
TX11	99	64213	54136	10077	0.843	2258	4250	11330	9015	2619	2636	997	2.115	24407	24838	0.496	8924
TX11	145	17712	6386	11326	0.361	2386	2385	3805	1687	348	549	437	1.866	11480	4965	0.698	8600
TX11	193	7733	2937	4796	0.380	891	1160	1735	874	186	456	231	1.956	5542	1926	0.742	11193
TX11	217	27146	7072	20074	0.261	2814	4128	5412	2923	829	1264	658	1.936	18868	7410	0.718	10703
TX11	281	13521	6382	7139	0.472	1086	1456	2605	1960	462	819	289	2.035	9971	3385	0.747	10586
TX11	307	7741	5100	2641	0.659	1191	826	1469	784	136	405	191	1.889	5314	2300	0.698	8495
TX11	309	189123	151543	37580	0.801	13042	19044	31394	23101	7503	12166	6547	2.108	111120	70347	0.612	11185
TX11	331	22946	10815	12131	0.471	2927	2826	4819	2111	583	992	483	1.894	16230	6430	0.716	10341
TX11	333	4531	0	4531	0.000	571	667	962	465	146	235	176	1.960	3156	1067	0.747	10374
TX11	411	5401	2675	2726	0.495	720	684	1175	523	125	344	91	1.906	3766	1451	0.722	10785
TX14	7	17892	5651	12241	0.316	1717	2256	3466	2413	503	1164	586	2.029	12882	4797	0.729	11394
TX14	15	4095	264	3831	0.064	524	422	992	323	125	147	96	1.904	3395	700	0.829	11571
TX14	21	38263	14794	23469	0.387	3713	4045	7851	4426	1147	2343	912	2.005	28359	8630	0.767	10300
TX14	31	5972	0	5972	0.000	558	705	1300	862	108	367	162	2.012	4261	1554	0.733	12388
TX14	39	59405	33702	25703	0.567	4644	6269	11118	7609	1932	2498	1028	1.990	39375	18675	0.678	11628
TX14	51	13625	3181	10444	0.233	1774	1909	2980	1067	247	574	264	1.860	10402	2982	0.777	9354
TX14	55	26392	13866	12526	0.525	3297	2877	4623	2534	529	1237	463	1.892	16651	8071	0.674	9242
TX14	57	19053	10886	8167	0.571	2150	2087	3824	2113	472	812	388	1.929	14036	4833	0.744	10374
TX14	89	18383	6918	11465	0.376	2934	2233	3844	1480	473	856	441	1.861	13595	4457	0.753	10379
TX14	149	20095	3951	16144	0.197	3716	2228	4545	1818	429	955	314	1.816	14680	5003	0.746	10769
TX14	177	17205	6527	10678	0.379	2990	1838	3415	1350	330	652	266	1.795	11188	5672	0.664	9252
TX14	209	65614	28743	36871	0.438	4115	3861	8078	7903	1450	5980	3142	2.258	38141	21348	0.641	11422
TX14	239	13039	5343	7696	0.410	1807	1891	2515	1132	305	598	271	1.862	9499	3415	0.736	10225
TX14	285	18690	6196	12494	0.332	3147	2523	4132	1485	430	815	262	1.806	14530	3810	0.792	10294
TX14	287	12854	4093	8761	0.318	1730	1420	2466	1271	284	634	283	1.904	9273	3050	0.752	10252
TX14	321	36928	22682	14246	0.614	3751	3556	6836	4399	1067	2010	823	1.989	24397	12268	0.665	11374

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					Urban	9 Years	High Sch.	Diploma	College	Degree	Degree	School	Quotient	Occupied	Occupied	Occupied	Income
TX14	391	7976	3158	4818	0.396	1039	893	1435	862	263	354	221	1.932	5834	2079	0.737	10496
TX14	453	10050	3810	6240	0.379	110	425	1510	2158	353	2113	879	2.565	7559	2456	0.755	23327
TX14	469	74361	55036	19325	0.740	6637	6855	12712	9761	2865	4515	1861	2.045	49319	24291	0.670	12196
TX14	473	19277	11322	7955	0.587	1524	1660	2792	1841	488	1013	792	2.094	10696	5754	0.650	9946
TX14	481	39955	19496	20459	0.488	5189	4340	6578	4187	1384	2000	907	1.927	26716	12606	0.679	10911
TX14	491	26884	16173	10711	0.602	3781	2534	5235	2544	520	1298	582	1.898	18218	7317	0.713	10146
TX15	25	25135	13547	11588	0.539	3017	2086	3296	3147	1192	1300	550	1.981	15950	8626	0.649	8619
TX15	47	8204	5658	2546	0.690	1617	957	1016	712	114	192	121	1.698	5990	2165	0.735	6623
TX15	123	18840	8854	9986	0.470	3301	2324	3731	1721	310	750	406	1.815	13189	5178	0.718	9564
TX15	175	5980	0	5980	0.000	934	561	1124	787	195	257	137	1.903	4282	1645	0.722	10875
TX15	215	383545	293332	90213	0.765	81842	24535	39072	25493	5497	15352	7471	1.726	274518	105289	0.723	6630
TX15	249	10629	4995	5634	0.470	1350	913	1625	1125	319	664	306	1.986	8247	2242	0.786	10815
TX15	255	12455	6679	5776	0.536	2568	1168	1952	1015	287	530	151	1.749	8884	3333	0.727	8229
TX15	273	19363	17239	2124	0.890	2207	1599	2131	2142	303	1130	912	2.061	11126	7223	0.606	9537
TX15	297	9556	2586	6970	0.271	1389	1055	1657	1127	272	545	204	1.913	7488	1979	0.791	10055
TX15	409	58749	38353	20396	0.653	7688	5814	9073	6286	1672	2621	1143	1.904	39669	18526	0.682	9425
TX15	489	14349	8921	5428	0.622	3659	877	1563	774	150	509	226	1.630	10671	3558	0.750	6077
TX16	141	566238	556403	9835	0.983	75602	39822	71606	63267	15764	33604	14966	1.974	344011	210638	0.620	9195
TX17	33	799	0	799	0.000	61	92	156	109	22	69	23	2.087	530	269	0.663	17533
TX17	49	34371	18387	15984	0.535	2952	4223	6839	3783	1022	2045	931	2.014	23754	9082	0.723	9797
TX17	59	11859	3002	8857	0.253	804	1660	2906	1430	298	476	292	1.991	9205	2536	0.784	10353
TX17	81	3424	0	3424	0.000	296	567	748	446	98	212	74	1.976	2565	746	0.775	10220
TX17	83	9710	5410	4300	0.557	1242	1544	2189	975	196	431	221	1.882	7010	2478	0.739	9353
TX17	93	13381	4087	9294	0.305	1940	1930	3119	1081	268	550	292	1.851	9962	3092	0.763	9679
TX17	95	3044	0	3044	0.000	594	360	591	260	62	179	36	1.795	1832	838	0.686	8126
TX17	115	14349	10813	3536	0.754	2357	1647	2557	1193	156	597	188	1.789	10456	3786	0.734	9535
TX17	133	18488	10306	8182	0.557	1826	2738	3619	2261	577	860	500	1.961	12841	4667	0.733	8729
TX17	143	27991	16692	11299	0.596	1814	2918	4313	3610	476	2059	1284	2.151	17525	8980	0.661	10832
TX17	151	4842	0	4842	0.000	670	541	1130	427	128	273	104	1.912	3578	1199	0.749	9760
TX17	207	6820	3374	3446	0.495	956	1023	1449	694	206	275	152	1.871	5089	1603	0.760	10099
TX17	221	28981	4045	24936	0.140	1679	3354	5962	4884	964	2192	821	2.110	23000	5662	0.802	14961
TX17	227	32343	23093	9250	0.714	3302	3950	5850	4009	1267	1500	961	1.989	21500	8689	0.712	10644
TX17	237	6981	3350	3631	0.480	643	1115	1362	830	190	386	126	1.944	5124	1749	0.746	11010
TX17	253	16490	10010	6480	0.607	1825	2398	3285	1803	292	805	364	1.917	12398	3706	0.770	9910
TX17	263	1010	0	1010	0.000	112	143	256	99	15	54	18	1.912	665	320	0.675	10087
TX17	317	4956	2504	2452	0.505	795	500	780	392	177	142	47	1.780	3448	1459	0.703	9867
TX17	335	8016	4749	3267	0.592	1213	938	1596	840	135	400	162	1.871	5999	1840	0.765	9581
TX17	353	16594	11967	4627	0.721	1898	2060	3223	1602	449	875	379	1.936	11531	4498	0.719	9738
TX17	363	25055	14388	10667	0.574	2297	3451	5359	2923	568	1205	611	1.965	17345	7149	0.708	9979
TX17	399	11294	6880	4414	0.609	1522	1657	2061	1104	278	556	183	1.862	8239	2879	0.741	9602

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					Urban	9 Years	High Sch.	Diploma	College	Degree	Degree	School	Quotient	Occupied	Occupied	Occupied	Income
TX17	415	18634	12195	6439	0.654	1633	2433	3348	2179	648	773	367	1.958	12976	4749	0.732	10333
TX17	417	3316	0	3316	0.000	323	439	647	388	113	248	89	2.016	2306	951	0.708	11487
TX17	425	5360	0	5360	0.000	552	518	951	628	134	302	143	2.000	3493	1722	0.670	11892
TX17	429	9010	5665	3345	0.629	712	1224	2056	997	266	450	250	2.001	6850	2027	0.772	10343
TX17	433	2013	0	2013	0.000	246	232	531	175	53	108	26	1.904	1497	459	0.765	10240
TX17	441	119655	107052	12603	0.895	7696	9853	20383	15357	3324	10101	4706	2.174	72150	40741	0.639	11791
TX17	447	1880	0	1880	0.000	154	248	441	213	72	142	61	2.057	1380	466	0.748	10505
TX17	451	52784	49370	3414	0.935	7171	6101	8908	5792	1194	2022	778	1.856	33402	17684	0.654	8415
TX17	497	34679	8791	25888	0.253	2885	4334	7406	4371	764	1656	546	1.962	26461	7259	0.785	11307
TX17	503	18126	12505	5621	0.690	1860	2883	3308	2285	387	954	394	1.934	13136	4685	0.737	11368
TX18	201	564708	559357	5351	0.991	44513	70659	90684	65119	13762	39721	20868	2.072	277895	271080	0.506	11091
TX19	3	14338	10678	3660	0.745	1461	1721	2274	1601	332	543	260	1.915	10992	3243	0.772	10361
TX19	17	7064	4624	2440	0.655	1038	922	1275	731	98	247	79	1.804	5019	2001	0.715	10043
TX19	79	4377	2589	1788	0.592	590	485	720	359	99	181	85	1.864	2919	1334	0.686	8533
TX19	111	5461	4001	1460	0.733	467	710	1317	632	89	214	35	1.903	3496	1946	0.642	9250
TX19	117	19153	14745	4408	0.770	2668	1883	2727	1905	347	876	305	1.862	12619	6298	0.667	9296
TX19	135	84615	81527	3088	0.964	4498	8393	15349	13492	2793	5210	2119	2.107	60516	23768	0.718	12897
TX19	165	14123	6342	7781	0.449	2211	1415	1871	1246	241	561	206	1.805	10248	3845	0.727	9204
TX19	195	5848	3197	2651	0.547	466	560	1045	776	219	474	80	2.053	4181	1589	0.725	12136
TX19	205	3634	2239	1395	0.616	152	216	868	600	77	319	150	2.230	2770	770	0.782	14254
TX19	219	24199	13986	10213	0.578	2443	2513	3414	2917	769	1051	654	1.984	17270	6377	0.730	10648
TX19	303	179371	153204	26167	0.854	7689	11971	25312	25097	5550	18983	9849	2.326	110470	60717	0.645	13468
TX19	329	50073	48041	2032	0.959	1436	3292	7371	8261	1910	6621	2374	2.362	32936	16746	0.663	17548
TX19	341	17865	12871	4994	0.720	1829	2078	3079	1798	375	816	288	1.918	12112	5584	0.684	11195
TX19	357	9128	7607	1521	0.833	650	972	1896	1176	164	620	159	2.032	6673	2411	0.735	13325
TX19	359	2278	0	2278	0.000	112	211	362	293	21	182	47	2.116	1134	743	0.604	10577
TX19	369	9863	3688	6175	0.374	1541	1027	1541	965	211	349	168	1.824	6624	3116	0.680	9087
TX19	381	89673	77604	12069	0.865	2007	5975	13768	15444	3927	10590	4170	2.354	64108	24007	0.728	15369
TX19	421	2858	0	2858	0.000	260	269	554	422	50	198	39	2.007	1897	926	0.672	10396
TX19	445	13218	9560	3658	0.723	1713	1437	2266	1345	294	550	209	1.875	9213	3861	0.705	10859
TX19	501	8786	5183	3603	0.590	1027	777	1632	836	210	378	145	1.913	6623	2123	0.757	10592
TX20	29	564865	549470	15395	0.973	57628	45196	80391	73411	17698	33692	17173	2.046	299814	244421	0.551	9672
TX21	19	10562	0	10562	0.000	651	1098	2455	1716	326	878	392	2.140	8060	2233	0.783	12798
TX21	29	165637	164615	1022	0.994	2662	5231	21244	30610	7135	28094	16353	2.600	106719	55862	0.656	21093
TX21	53	22677	7392	15285	0.326	1742	3098	4973	3013	663	1534	660	2.041	16662	5702	0.745	11530
TX21	91	38698	25190	13508	0.651	2084	2742	7822	6605	1367	4450	2142	2.280	30278	7651	0.798	15385
TX21	171	17204	6934	10270	0.403	2299	1527	3468	2296	517	1511	574	2.035	13434	3072	0.814	12046
TX21	173	1447	0	1447	0.000	166	120	273	148	26	64	16	1.902	852	592	0.590	16219
TX21	187	38713	17126	21587	0.442	2743	3130	8145	5657	1330	2691	1364	2.127	30070	8251	0.785	12723
TX21	235	1629	0	1629	0.000	147	157	371	193	20	97	45	2.019	1162	467	0.713	11659

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					Urban	9 Years	High Sch.	Diploma	College	Degree	Degree	School	Quotient	Occupied	Occupied	Occupied	Income
TX21	259	14589	4274	10315	0.293	992	926	2821	2536	492	1289	646	2.207	10602	3613	0.746	13426
TX21	265	36304	17384	18920	0.479	2711	3405	7387	5661	1091	3305	1815	2.177	23828	10536	0.693	12899
TX21	267	4122	2574	1548	0.624	493	515	935	480	76	265	89	1.948	2857	1200	0.704	11372
TX21	299	11631	5911	5720	0.508	978	1643	3117	1912	350	841	384	2.050	8740	2615	0.770	12448
TX21	307	1037	846	191	0.816	53	97	181	195	51	161	40	2.275	802	179	0.818	11477
TX21	319	3423	0	3423	0.000	444	394	733	419	101	187	124	1.979	2583	777	0.769	8575
TX21	327	2252	0	2252	0.000	396	263	485	223	24	135	43	1.848	1542	683	0.693	9318
TX21	329	30999	21457	9542	0.692	898	1665	4194	4436	964	5387	1781	2.456	23571	7294	0.764	19177
TX21	385	2412	0	2412	0.000	344	315	437	309	86	112	54	1.903	1831	477	0.793	8184
TX21	413	2990	0	2990	0.000	359	333	489	368	45	189	58	1.942	2170	776	0.737	10615
TX21	431	1438	0	1438	0.000	155	120	279	141	55	83	34	1.999	943	477	0.664	12698
TX21	451	45674	36065	9609	0.790	1636	2396	7172	7454	1656	5169	2151	2.338	27443	14370	0.656	15027
TX21	491	112667	92004	20663	0.817	3666	5609	16486	17988	4708	13891	4799	2.355	75297	36402	0.674	14288
TX24	113	233482	231725	1757	0.992	24181	21882	33715	26699	6071	16135	6930	2.034	152614	78757	0.660	12372
TX24	139	57348	27437	29911	0.478	4856	6593	11631	6247	1348	2543	1059	1.963	41136	15140	0.731	10879
TX24	349	39926	22897	17029	0.573	3838	5148	7232	4551	1378	1938	1291	1.997	27483	11217	0.710	10468
TX24	439	235023	233406	1617	0.993	13142	24266	38125	32899	7580	15711	5420	2.097	122875	107805	0.533	11042
TX26	85	74045	70658	3387	0.954	1288	1612	5917	10899	2504	18392	7262	2.727	49958	23959	0.676	27927
TX26	113	293173	293173	0	1.000	10095	16117	40593	46751	11930	48647	19995	2.454	161915	129835	0.555	20824
TX26	121	195355	172014	23341	0.881	4493	8395	25287	32830	8785	30295	9745	2.448	134231	59680	0.692	17750
TX26	439	4149	4121	28	0.993	120	364	694	687	206	532	181	2.311	2948	1074	0.733	18390
TX28	13	30533	14105	16428	0.462	4365	2907	5553	2640	697	1020	466	1.838	22094	8038	0.733	8447
TX28	29	359553	330433	29120	0.919	42232	35790	60945	40980	10754	11737	6074	1.901	237292	117777	0.668	8487
TX28	91	13134	12033	1101	0.916	2310	1332	2072	1136	265	326	131	1.740	7748	5323	0.593	7549
TX28	131	12918	7380	5538	0.571	2511	1383	2053	806	242	272	208	1.707	10458	2414	0.812	7126
TX28	163	13472	9556	3916	0.709	2458	1244	2141	798	225	366	193	1.728	8882	4325	0.673	6629
TX28	187	26160	14970	11190	0.572	3449	2868	4611	2166	594	1091	468	1.868	17204	8083	0.680	9268
TX28	247	5109	4405	704	0.862	962	549	733	365	18	199	133	1.773	3945	1164	0.772	6852
TX28	249	27050	18556	8494	0.686	4627	2888	4229	2179	575	678	402	1.759	19990	6701	0.749	7005
TX28	283	5254	3711	1543	0.706	1298	460	601	386	123	227	120	1.719	3679	1512	0.709	8130
TX28	311	817	0	817	0.000	116	82	172	93	15	64	18	1.953	608	209	0.744	13485
TX28	427	40518	17950	22568	0.443	11050	2375	3288	1287	297	817	502	1.493	32089	8240	0.796	4152
TX28	493	22650	5247	17403	0.232	3138	2201	4482	2254	452	872	344	1.863	18166	4281	0.809	9728
TX28	505	9279	7185	2094	0.774	1743	824	1277	790	156	184	170	1.736	7535	1728	0.813	6541
TX30	85	7147	7147	0	1.000	856	749	1027	611	153	328	98	1.875	1874	5167	0.266	8690
TX30	113	557811	557811	0	1.000	42033	61246	87402	68371	17382	38275	16232	2.072	233073	312418	0.427	11476
TX30	439	2019	2019	0	1.000	168	321	278	170	16	8	29	1.786	803	1216	0.398	4315
VT0	1	32953	8585	24368	0.261	1818	1769	7221	2777	1296	2985	2008	2.284	24143	6370	0.791	12717
VT0	3	35845	9532	26313	0.266	2368	2833	7419	3494	1828	3602	1908	2.231	25801	8712	0.748	13543
VT0	5	27846	6424	21422	0.231	1864	2081	6873	2310	1012	2151	1174	2.153	20544	6404	0.762	11425

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VT0	7	131761	86873	44888	0.659	4648	5880	22228	12582	7016	16444	10571	2.462	87756	36554	0.706	16096
VT0	9	6405	0	6405	0.000	699	674	1807	582	158	260	105	1.920	4800	1319	0.784	9854
VT0	11	39980	7339	32641	0.184	3324	2911	10200	3141	1634	2530	1003	2.055	30223	9228	0.766	11678
VT0	13	5318	0	5318	0.000	376	361	1221	546	292	457	255	2.198	4235	1083	0.796	13940
VT0	15	19735	0	19735	0.000	1197	1233	4249	1752	917	1910	1027	2.248	14171	4795	0.747	12519
VT0	17	26149	0	26149	0.000	1314	1925	6410	2226	1052	2169	1461	2.235	20522	4858	0.809	11898
VT0	19	24053	4434	19619	0.184	2352	2106	5767	1969	873	1535	630	2.021	18063	5593	0.764	10458
VT0	21	62142	18230	43912	0.293	3543	4786	14483	6616	2768	5794	2535	2.197	44568	15241	0.745	12780
VT0	23	54928	17729	37199	0.323	2827	3825	12782	4913	2559	5441	3256	2.273	39661	12785	0.756	13547
VT0	25	41588	15060	26528	0.362	2078	2961	9648	4286	1578	4393	2546	2.283	27932	12570	0.690	13134
VT0	27	54055	6698	47357	0.124	2537	4347	13122	5400	2747	5449	3255	2.271	39415	13836	0.740	14262
VA2	710	179717	179717	0	1.000	5726	14355	31416	21956	4788	12341	6637	2.212	70738	79167	0.472	12843
VA2	810	383072	379536	3536	0.991	7044	20695	65809	60389	15962	40203	17348	2.354	239205	132368	0.644	15266
VA3	36	6282	0	6282	0.000	786	1067	1319	572	147	272	84	1.844	5433	849	0.865	11384
VA3	57	8689	0	8689	0.000	1000	1095	1863	799	206	719	255	1.997	7167	1378	0.839	11529
VA3	87	53708	49978	3730	0.931	3371	6567	10579	7265	1571	3313	1503	2.066	34064	19352	0.638	13162
VA3	95	6938	6127	811	0.883	203	409	1213	1103	238	1028	635	2.473	5766	1089	0.841	23058
VA3	97	6289	0	6289	0.000	756	1019	1390	595	110	224	91	1.843	5287	1002	0.841	11278
VA3	101	10913	2938	7975	0.269	1153	1101	2376	1255	334	602	324	2.004	9100	1730	0.840	13294
VA3	127	10445	0	10445	0.000	637	1262	2422	1305	407	607	330	2.076	9402	874	0.915	14993
VA3	149	1836	188	1648	0.102	45	56	413	293	53	156	118	2.369	1334	502	0.727	14810
VA3	159	7273	0	7273	0.000	1213	951	1454	623	180	427	162	1.862	5428	1493	0.784	11036
VA3	181	6145	0	6145	0.000	883	813	1159	617	119	297	149	1.881	4682	1455	0.763	11495
VA3	650	64769	64769	0	1.000	3499	6413	11311	8925	2355	4023	1874	2.117	35149	26236	0.573	11453
VA3	670	3418	3418	0	1.000	413	539	634	253	23	44	32	1.742	1452	1966	0.425	8570
VA3	700	81540	81540	0	1.000	4723	8426	14654	10335	2956	3822	1909	2.059	34797	43114	0.447	10068
VA3	710	81512	81512	0	1.000	6983	12478	13058	7943	1712	3669	1711	1.931	32167	45992	0.412	8995
VA3	730	24587	24587	0	1.000	3516	3845	3831	2416	546	924	451	1.824	11078	11802	0.484	8302
VA3	740	38579	38579	0	1.000	4379	5736	5821	4507	762	1228	704	1.866	19790	17436	0.532	8761
VA3	760	144689	144689	0	1.000	14517	23607	23398	14319	3506	8038	3830	1.942	63837	73712	0.464	9865
VA3	800	3028	3028	0	1.000	145	285	598	471	82	191	58	2.097	1438	1590	0.475	11684
VA4	7	8787	0	8787	0.000	1206	1323	2007	639	194	279	140	1.818	6987	1776	0.797	11605
VA4	25	15987	0	15987	0.000	2487	2566	2786	1228	428	462	253	1.777	10804	3903	0.735	8872
VA4	41	26271	13562	12709	0.516	1402	2049	5019	2876	985	1974	1138	2.197	20789	4021	0.838	13823
VA4	53	20960	3521	17439	0.168	2462	3254	4732	1854	518	806	376	1.871	16636	4040	0.805	12212
VA4	75	14163	0	14163	0.000	1500	1833	2751	1629	369	1275	654	2.076	11329	1826	0.861	18312
VA4	81	8853	0	8853	0.000	1696	1126	1867	516	139	205	92	1.704	6621	2193	0.751	9504
VA4	93	25053	4686	20367	0.187	2730	2948	4824	3163	1023	1302	408	1.952	20156	4692	0.811	12274
VA4	109	20325	0	20325	0.000	2692	2728	4671	1685	537	718	452	1.871	16826	3328	0.835	12390
VA4	135	14993	3497	11496	0.233	2719	2100	2773	1464	334	602	304	1.803	10014	3629	0.734	10036

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VA4	145	15328	0	15328	0.000	1350	2156	3529	1610	496	824	441	1.993	11759	1577	0.882	15683
VA4	149	25558	9875	15683	0.386	1330	2193	5110	3108	1140	1731	649	2.128	15024	7343	0.672	12563
VA4	175	17550	0	17550	0.000	2687	2110	3029	1833	545	996	323	1.881	11854	4302	0.734	10948
VA4	183	10248	0	10248	0.000	1879	1207	2053	778	237	407	173	1.790	7015	3089	0.694	9856
VA4	550	151976	146527	5449	0.964	7471	14034	28888	22274	5406	11083	4790	2.154	111998	37334	0.750	13817
VA4	570	16064	16064	0	1.000	966	1494	4064	2090	622	1208	642	2.145	12000	3862	0.757	15639
VA4	595	5306	5306	0	1.000	883	609	927	506	156	270	208	1.917	2646	2458	0.518	10478
VA4	620	7864	7864	0	1.000	1143	821	1353	793	308	431	311	1.971	4439	3306	0.573	11212
VA4	670	19683	19683	0	1.000	1444	2391	4651	2247	624	971	426	2.004	12101	7275	0.625	12475
VA4	730	13799	13799	0	1.000	828	1227	2730	2038	582	1368	633	2.212	8623	4856	0.640	14547
VA4	740	65328	65328	0	1.000	3787	7692	13239	9292	1990	3738	1851	2.075	37737	26454	0.588	12573
VA4	800	49113	36048	13065	0.734	5763	5929	8782	5831	1581	2717	1151	1.954	34310	14149	0.708	11840
VA4	810	9997	9997	0	1.000	89	225	1456	1462	565	1338	553	2.508	8957	1040	0.896	14306
VA6	5	13176	0	13176	0.000	1527	1362	3291	1420	442	488	336	1.947	10731	2239	0.827	11606
VA6	9	28578	12240	16338	0.428	4183	3519	5724	2521	784	1295	719	1.883	21298	4985	0.810	11185
VA6	15	54677	11896	42781	0.218	4989	6309	13986	5158	1762	2814	1443	1.993	43820	9229	0.826	12751
VA6	17	4799	0	4799	0.000	527	571	1250	432	147	266	162	1.988	3451	1293	0.727	11369
VA6	19	12212	16	12196	0.001	1349	1609	2815	1365	507	519	260	1.938	10795	1326	0.891	13468
VA6	23	24992	2866	22126	0.115	2293	2346	5879	3082	1181	1656	676	2.053	21588	2799	0.885	13810
VA6	91	2635	0	2635	0.000	420	313	692	198	47	182	67	1.902	2174	461	0.825	10828
VA6	161	67221	55647	11574	0.828	4132	4946	12432	10199	3796	7263	3305	2.254	52813	12530	0.808	16788
VA6	163	18350	0	18350	0.000	2589	2109	4047	1544	515	837	763	1.949	13640	4509	0.752	11287
VA6	165	50832	3904	46928	0.077	5755	5692	11037	4348	1291	3236	1862	2.003	39858	9460	0.808	12783
VA6	530	6406	6406	0	1.000	1149	716	1334	465	164	296	71	1.792	4377	1711	0.719	10241
VA6	560	4679	4679	0	1.000	520	515	1243	538	230	203	94	1.959	2800	1600	0.636	11562
VA6	580	6991	6991	0	1.000	854	868	1856	673	266	218	121	1.892	4940	2022	0.710	10814
VA6	660	30707	30707	0	1.000	1496	1868	3864	2479	657	2381	1786	2.308	11201	13404	0.455	11607
VA6	678	6959	6959	0	1.000	481	394	617	497	194	546	488	2.331	2925	1780	0.622	10077
VA6	680	66049	66049	0	1.000	5557	6903	10204	6926	2358	5482	3393	2.151	36918	23203	0.614	12657
VA6	770	96397	96397	0	1.000	8930	12162	19103	11714	3640	6842	3464	2.053	57100	37359	0.604	12513
VA6	775	23756	23756	0	1.000	1685	2183	5228	3223	968	1806	1081	2.153	15531	6162	0.716	14467
VA6	790	24461	24322	139	0.994	2297	2530	5078	2987	996	1883	1121	2.107	14120	7596	0.650	12912
VA6	820	18549	18549	0	1.000	1769	1859	3956	2020	694	1695	594	2.082	11954	6203	0.658	13469
VA7	3	35935	15278	20657	0.425	1775	1838	4672	4235	1445	5673	4439	2.566	25361	9947	0.718	19621
VA7	41	183003	161253	21750	0.881	5412	11739	28980	26444	7081	24697	10210	2.384	149459	32552	0.821	17940
VA7	47	27791	8581	19210	0.309	2898	3040	5841	2558	848	1747	905	2.011	19396	7882	0.711	14122
VA7	79	10297	0	10297	0.000	1383	1043	2197	831	352	566	278	1.940	7969	2328	0.774	12268
VA7	85	28247	13495	14752	0.478	1579	2707	6588	3731	1021	2185	757	2.119	24599	3618	0.872	16191
VA7	87	164173	151404	12769	0.922	5889	11689	28107	24730	6198	24787	11674	2.404	114622	47084	0.709	19608
VA7	113	11949	0	11949	0.000	1582	1390	2405	1031	339	907	321	1.962	8796	2926	0.750	11145

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VA7	137	21421	2582	18839	0.121	2170	2774	4527	2130	557	1523	802	2.026	17014	4176	0.803	13545
VA7	177	21546	2725	18821	0.126	1576	2415	4725	2090	565	1260	597	2.036	18974	2542	0.882	14443
VA7	760	58367	58367	0	1.000	1901	2917	6858	8874	2056	12611	8144	2.664	33507	20895	0.616	24227
VA8	13	170936	170936	0	1.000	7210	8487	18579	20196	5527	35629	30148	2.734	77929	88777	0.467	25633
VA8	59	271111	269565	1546	0.994	5901	12162	36087	35718	10901	46179	34677	2.649	188145	74633	0.716	23915
VA8	510	111183	111183	0	1.000	4923	5818	12812	14410	4247	23980	15844	2.653	45957	62914	0.422	25509
VA8	610	9578	9578	0	1.000	211	396	1050	1311	359	1918	1802	2.798	6476	3063	0.679	26709
VA9	21	6514	0	6514	0.000	924	766	1607	704	305	152	56	1.842	5113	828	0.861	9765
VA9	27	31333	0	31333	0.000	7074	4120	4518	1895	606	774	480	1.660	25112	5941	0.809	9621
VA9	35	26594	0	26594	0.000	5394	3805	5234	1749	919	726	467	1.741	22114	4123	0.843	9693
VA9	45	4372	0	4372	0.000	482	461	1311	323	178	172	57	1.914	3695	651	0.850	11186
VA9	51	17620	0	17620	0.000	3771	2153	3168	1157	274	456	210	1.683	14071	3422	0.804	8067
VA9	63	12005	0	12005	0.000	2100	1177	2853	905	352	571	282	1.860	10419	1528	0.872	10532
VA9	71	16366	0	16366	0.000	2008	1969	4328	1376	522	588	408	1.912	13261	2982	0.816	11462
VA9	77	16278	0	16278	0.000	3309	2205	3570	1304	401	348	130	1.709	13415	2642	0.835	8966
VA9	105	24496	0	24496	0.000	5398	2912	4223	1927	483	606	434	1.709	18527	5787	0.762	7837
VA9	121	73913	49662	24251	0.672	5088	4917	8007	5820	2105	5850	6153	2.346	38839	26310	0.596	10979
VA9	155	34496	9985	24511	0.289	4708	4699	6377	3370	1442	1760	914	1.918	24999	8491	0.746	11074
VA9	161	12111	2503	9608	0.207	1085	1043	2332	1422	725	1251	476	2.158	10632	1097	0.906	15735
VA9	167	28667	3810	24857	0.133	5849	3454	5346	2073	852	866	402	1.737	22666	5662	0.800	8753
VA9	169	23204	4165	19039	0.179	4869	2898	5214	1591	390	667	275	1.717	17908	5095	0.779	9100
VA9	173	32370	6630	25740	0.205	5226	4915	6449	2255	1169	1112	590	1.805	23305	7866	0.748	9613
VA9	185	45960	16342	29618	0.356	7533	5316	8559	4306	1645	1927	810	1.842	35268	10121	0.777	9995
VA9	191	45887	7218	38669	0.157	6887	5435	8403	4418	2136	2487	1316	1.926	34987	9647	0.784	11057
VA9	195	39573	7941	31632	0.201	7126	4805	6790	3109	960	1381	760	1.785	30463	8327	0.785	9392
VA9	197	25466	8038	17428	0.316	3593	2941	5374	2329	1154	1103	615	1.908	19919	5212	0.793	10404
VA9	520	18426	18426	0	1.000	2584	2317	3177	1962	746	1241	492	1.948	11559	6107	0.654	10290
VA9	640	6670	6670	0	1.000	1196	826	1206	591	274	315	204	1.870	4339	2038	0.680	10490
VA9	720	4247	4247	0	1.000	722	508	615	444	90	199	112	1.852	2660	1570	0.629	9214
VA9	750	15940	15940	0	1.000	748	804	1247	1159	525	962	874	2.334	6303	6587	0.489	9704
WA4	1	215	0	215	0.000	25	5	38	10	0	11	8	2.021	80	135	0.372	7650
WA4	5	112560	98156	14404	0.872	4263	6942	19221	16877	6015	10770	5423	2.304	74616	37381	0.666	14027
WA4	7	52250	27337	24913	0.523	3537	5274	9746	7138	2808	4063	1653	2.128	33864	17497	0.659	12533
WA4	17	26205	15240	10965	0.582	1838	2131	5091	3616	1530	1691	590	2.099	18269	7659	0.705	12071
WA4	21	37473	27247	10226	0.727	3760	2871	5904	3845	1628	2073	714	2.004	21561	15462	0.582	10407
WA4	25	54758	23999	30759	0.438	4276	5109	10191	7527	1962	2878	1049	2.031	34872	19242	0.644	10376
WA4	37	26725	12361	14364	0.463	995	1865	4589	3361	1035	2312	1077	2.256	14874	9440	0.612	10781
WA4	39	8342	3319	5023	0.398	411	1006	1845	1134	352	485	98	2.042	5811	2429	0.705	10803
WA4	47	33350	4117	29233	0.123	2638	3512	6866	4608	1226	1823	754	2.033	21159	11599	0.646	10346
WA4	77	188823	120416	68407	0.638	19685	18738	30712	22076	6746	10819	4716	2.001	118090	66955	0.638	10735

			Place of Residence			EDUCATIONAL ATTAINMENT (universe: 25 yrs. and older)								Housing Status			
District	County	Population	Urban	Rural	Percent Urban	Less than 9 Years	Some High Sch.	High Sch. Diploma	Some College	Associate Degree	Bachelor Degree	Graduate School	Education Quotient	Owner Occupied	Renter Occupied	% Owner Occupied	Per Capita Income
WA5	1	13388	4638	8750	0.346	1554	1074	2298	1406	524	698	254	1.965	8675	4596	0.654	10122
WA5	3	17605	13498	4107	0.767	906	1699	3830	2647	932	947	464	2.109	11355	5958	0.656	11379
WA5	13	4024	0	4024	0.000	402	383	795	497	286	298	121	2.077	2423	1437	0.628	11108
WA5	19	6295	0	6295	0.000	332	703	1305	776	205	294	160	2.060	4256	1816	0.701	9860
WA5	23	2248	0	2248	0.000	100	188	543	339	195	167	50	2.161	1468	741	0.665	12209
WA5	43	8864	0	8864	0.000	409	701	1938	1616	493	764	221	2.179	6267	2500	0.715	11977
WA5	51	8915	0	8915	0.000	440	1028	2016	1240	394	469	227	2.082	6425	2415	0.727	9556
WA5	63	361364	300970	60394	0.833	11926	23666	63659	59009	22997	32025	15071	2.283	242284	108180	0.691	12804
WA5	65	30948	4360	26588	0.141	1380	2315	7393	4426	1455	1614	718	2.122	23611	7105	0.769	10584
WA5	71	48439	35745	12694	0.738	2772	3587	8122	7520	2697	3860	1842	2.204	29035	14950	0.660	11508
WA5	75	38775	26192	12583	0.675	672	987	3858	3846	1262	4107	3785	2.654	16609	15741	0.513	10653
WV1	1	15699	3132	12567	0.200	2233	1792	3758	908	296	636	378	1.864	11948	3203	0.789	8036
WV1	9	26992	14613	12379	0.541	2298	2824	7332	2578	771	1215	986	2.028	21210	4785	0.816	11656
WV1	17	6994	0	6994	0.000	928	697	1835	498	161	318	156	1.904	5772	1222	0.825	8297
WV1	23	10428	0	10428	0.000	1723	992	2701	607	209	358	230	1.832	8642	1635	0.841	10394
WV1	29	35233	21479	13754	0.610	3072	3576	10688	3357	1369	1364	792	1.984	27748	7218	0.794	12464
WV1	33	69371	27355	42016	0.394	5619	8046	17869	6696	1951	4070	2197	2.032	52600	15686	0.770	10281
WV1	49	57249	20210	37039	0.353	4824	6062	14794	5877	1780	3178	1590	2.023	44118	12147	0.784	10328
WV1	51	37356	18632	18724	0.499	3178	4116	10803	3335	1193	1508	912	1.981	29327	7089	0.805	10946
WV1	57	26697	8876	17821	0.332	2062	2599	7449	2333	904	1017	758	2.012	20865	5401	0.794	10398
WV1	61	75509	37908	37601	0.502	4545	6044	13098	5773	1408	5616	6475	2.306	48538	21301	0.695	11772
WV1	69	50871	40595	10276	0.798	3780	4805	12544	5324	1661	3917	2441	2.139	35690	12885	0.735	12348
WV1	73	7546	0	7546	0.000	888	661	2246	534	202	247	172	1.921	5649	1597	0.780	9958
WV1	77	29037	3243	25794	0.112	3792	3165	7648	1918	561	910	634	1.869	23674	5007	0.825	9158
WV1	85	10233	0	10233	0.000	1337	1295	2714	775	305	278	130	1.839	8226	1884	0.814	9117
WV1	91	15144	5524	9620	0.365	1775	1626	4387	1072	335	543	268	1.893	11619	3255	0.781	8746
WV1	93	7728	0	7728	0.000	904	959	2229	512	128	252	194	1.893	6246	1331	0.824	8978
WV1	95	9796	911	8885	0.093	1085	934	2719	871	259	381	202	1.935	8151	1589	0.837	9692
WV1	103	19258	8611	10647	0.447	1810	1935	5512	1483	502	835	468	1.969	15231	3842	0.799	10454
WV1	107	86915	57320	29595	0.659	6900	8632	21088	10174	3390	4952	2852	2.063	66294	19715	0.771	12011
WV3	5	25870	3051	22819	0.118	3717	3874	5934	1610	336	637	426	1.783	19907	5905	0.771	9189
WV3	11	96827	69797	27030	0.721	7592	10180	19980	10788	2843	6966	4984	2.132	64705	28707	0.693	12068
WV3	19	47952	6812	41140	0.142	6904	6550	10673	3446	999	1849	922	1.836	36041	10631	0.772	8653
WV3	25	34693	6377	28316	0.184	4398	4340	8358	2966	819	1479	1232	1.938	26290	7864	0.770	10057
WV3	43	21382	0	21382	0.000	4023	2792	4739	1021	193	365	268	1.689	16967	4359	0.796	7224
WV3	45	43032	3295	39737	0.077	6680	5980	8912	3021	884	869	846	1.783	32315	10475	0.755	8786
WV3	47	35233	3069	32164	0.087	7048	5718	6248	1755	351	605	410	1.645	27756	7269	0.792	6961
WV3	55	64980	19799	45181	0.305	7390	8393	14363	5856	1814	3143	1822	1.943	50450	13164	0.793	10405
WV3	59	33739	4154	29585	0.123	5434	4511	6318	1931	523	719	604	1.750	25186	8387	0.750	8328
WV3	63	12406	0	12406	0.000	1851	1295	3458	804	224	418	245	1.846	10023	2203	0.820	8959

			Place of Residence			EDUCATIONAL ATTAINMENT (universe: 25 yrs. and older)								Housing Status			
District	County	Population	Urban	Rural	Percent	Less than	Some	High Sch.	Some	Associate	Bachelor	Graduate	Education	Owner	Renter	% Owner	Per Capita
					Urban	9 Years	High Sch.	Diploma	College	Degree	Degree	School	Quotient	Occupied	Occupied	Occupied	Income
WV3	75	9008	0	9008	0.000	1531	925	2419	587	176	426	177	1.843	6952	1886	0.787	8860
WV3	81	76819	21235	55584	0.276	9057	9526	17179	6982	2316	3339	2067	1.932	58786	17029	0.775	10316
WV3	89	14204	3433	10771	0.242	2294	1833	3514	1072	267	504	331	1.833	10333	2852	0.784	8203
WV3	99	41636	12048	29588	0.289	4957	4986	10125	3633	782	1369	1059	1.901	32375	9109	0.780	9430
WV3	101	10729	0	10729	0.000	2354	1333	2128	580	116	261	122	1.665	8424	2242	0.790	6793
WV3	109	28990	0	28990	0.000	4492	4007	6421	1650	394	615	499	1.764	23415	5500	0.810	8268
WI6	1	15682	0	15682	0.000	1614	2143	4534	1673	572	570	272	1.924	11829	2767	0.810	10926
WI6	9	1607	0	1607	0.000	120	78	504	67	67	52	10	1.959	1435	172	0.893	11606
WI6	15	30976	16285	14691	0.526	2405	1676	8844	2446	1289	1760	561	2.047	25887	4813	0.843	12837
WI6	39	89256	52007	37249	0.583	6356	6276	24007	7846	4246	5475	2074	2.075	66040	20337	0.765	12578
WI6	47	18651	5304	13347	0.284	1647	1522	5364	1765	735	1005	415	2.019	14075	4315	0.765	11840
WI6	57	21650	3439	18211	0.159	2007	2173	5929	2056	823	870	352	1.958	16987	4411	0.794	10304
WI6	71	79655	48084	31571	0.604	6545	6194	22713	6487	3588	4752	1504	2.030	61570	16605	0.788	12250
WI6	77	12321	0	12321	0.000	1193	1381	3503	1232	440	531	219	1.955	9873	2312	0.810	10652
WI6	81	23890	7570	16320	0.317	1980	1614	6689	2144	914	1185	415	2.015	17871	5291	0.772	10900
WI6	87	19576	18356	1220	0.938	1156	1238	6050	1520	860	803	235	2.026	16478	2989	0.846	12689
WI6	117	24458	6933	17525	0.283	1747	1802	6809	2271	1151	1477	413	2.051	19538	3873	0.835	12997
WI6	135	46104	14629	31475	0.317	4184	4205	13149	3588	1677	2361	945	1.990	36015	8565	0.808	11455
WI6	137	19385	81	19304	0.004	1940	2054	5539	1777	680	977	349	1.962	15588	3603	0.812	10408
WI6	139	140320	114658	25662	0.817	6979	10262	35255	14228	6074	11127	5035	2.176	96125	37945	0.717	13696

Appendix F: T-test Data by Congressional District and Results by Comparison Group						
	Equal Population	Political Boundary	Ed. Attainment	Percent Urban	Housing Status	Per Cap. Income
District	Relative Deviation	Pop in Nest Cnty	Std. Deviation	Std. Deviation	Std. Deviation	Std. Deviation
Group	Mean or t	Mean or t	Mean or t	Mean or t	Mean or t	Mean or t
North Carolina's Twelfth Congressional District						
NC12	0.0000018	0	0.113915483	0.170614636	0.07411	1049.58
North Carolina Comparison Group						
NC1	0.0000144	0.29071	0.08446	0.27754	0.10062	1005.68
NC2	0.0000144	0.35925	0.23905	0.23480	0.05105	2519.05
NC3	0.0000144	0.35796	0.15318	0.23922	0.06998	1667.27
NC4	0.0000144	0.20175	0.12085	0.16600	0.03502	1052.63
NC5	0	0.56144	0.19203	0.27985	0.05761	2525.16
NC6	0.0000018	0.17978	0.18880	0.23157	0.03803	2672.72
NC7	0	0.10865	0.14649	0.32070	0.11852	2014.90
NC8	0.0000018	0.63271	0.13271	0.25090	0.04575	1774.10
NC9	0.0000018	0.00000	0.25544	0.18466	0.01881	3673.67
NC10	0	0.40825	0.17130	0.22366	0.03307	2866.85
NC11	0.0000018	0.49441	0.11500	0.22932	0.03898	1500.46
Group Mean	5.89091E-06	0.32681	0.16357	0.23984	0.05522	2115.68
Group t	-1.999040691	-5.57254	-3.14423	-5.31680	2.06707	-4.32
Southern Black-majority Comparison Group						
AL7	0.0000005	0.46699	0.06962	0.32135	0.07934	994.37
DCdel	0	1.00000	0.00000	0.00000	0.00000	0.00
FL3	0.0000008	0.00000	0.04496	0.23372	0.05835	1236.75
FL17	0.0000008	1.00000	0.00000	0.00000	0.00000	0.00
FL23	0.0000008	0.00000	0.07241	0.09587	0.03841	1004.08
GA2	0.0047039	0.55842	0.10755	0.32025	0.14401	1037.75
GA5	0.0041494	0.00000	0.09663	0.01053	0.01853	1937.71

	Equal Population	Political Boundary	Ed. Attainment	Percent Urban	Housing Status	Per Cap. Income
District	Relative Deviation	Pop in Nest Cnty	Std. Deviation	Std. Deviation	Std. Deviation	Std. Deviation
Group	Mean or t	Mean or t	Mean or t	Mean or t	Mean or t	Mean or t
GA11	0.0046418	0.45328	0.17585	0.36938	0.09200	2209.75
LA2	0.0002725	0.00000	0.07505	0.00536	0.07387	500.86
MD4	0.0000108	0.00000	0.27864	0.27603	0.06725	5297.35
MD7	0.0000058	1.00000	0.14827	0.01553	0.09264	2783.14
MS2	0.0003921	0.69820	0.09924	0.24871	0.08071	1408.77
NC1	0.0000144	0.29071	0.08446	0.27754	0.10062	1005.68
SC6	0.0000031	0.35450	0.06940	0.26740	0.09130	1267.26
TN9	0.000132	1.00000	0.00000	0.00000	0.00000	0.00
TX18	0	1.00000	0.00000	0.00000	0.00000	0.00
TX30	0	0.00000	0.01716	0.00000	0.00177	429.27
VA3	0.0000997	0.00000	0.10547	0.27339	0.12567	2078.18
Group Mean	0.000801578	0.43456	0.08026	0.15084	0.05914	1288.38
Group t	-1.986888515	-4.36428	2.00210	0.57800	1.35945	-0.78
Southern Comparison Group						
AL1	0.0000012	0.83154	0.07775	0.22528	0.05458	1024.92
AL5	0.0000005	0.92423	0.17922	0.17640	0.03896	1954.37
AR1	0.0015429	1.00000	0.09642	0.20290	0.08993	1351.93
AR4	0.0042186	1.00000	0.07563	0.19558	0.04781	1080.29
DE0	0	1.00000	0.11185	0.30446	0.02122	2229.22
FL2	0.0000008	0.80013	0.26675	0.31680	0.07287	2043.82
FL3	0.0000008	0.00000	0.04496	0.23372	0.05835	1236.75
FL4	0.0000009	0.13906	0.10703	0.18810	0.02925	1510.00
FL6	0.0000009	0.15412	0.07891	0.26519	0.02695	990.82
FL8	0.0000009	0.00000	0.06757	0.01022	0.01561	1356.02
FL9	0.0000009	0.00000	0.11997	0.21790	0.04568	2048.74
FL10	0.0000009	1.00000	0.00000	0.00000	0.00000	0.00
FL11	0.0000008	1.00000	0.00000	0.00000	0.00000	0.00
FL12	0.0000008	0.20521	0.07229	0.14303	0.03742	1091.58
FL17	0.0000008	1.00000	0.00000	0.00000	0.00000	0.00

	Equal Population	Political Boundary	Ed. Attainment	Percent Urban	Housing Status	Per Cap. Income
District	Relative Deviation	Pop in Nest Cnty	Std. Deviation	Std. Deviation	Std. Deviation	Std. Deviation
Group	Mean or t	Mean or t	Mean or t	Mean or t	Mean or t	Mean or t
GA3	0.0040739	0.46578	0.13960	0.34650	0.08379	2345.38
GA4	0.0010794	0.17097	0.12018	0.16351	0.07810	1927.73
GA5	0.0041494	0.00000	0.09663	0.01053	0.01853	1937.71
KY1	0.0000065	0.97141	0.13320	0.24742	0.09081	1319.34
KY2	0.0015759	0.88923	0.15535	0.24913	0.07294	1555.59
KY5	0.0003858	0.97892	0.06867	0.10887	0.03630	975.12
LA2	0.0002725	0.00000	0.07505	0.00536	0.07387	500.86
MD3	0.0000058	0.00000	0.22528	0.01692	0.04872	2848.86
MS1	0.0001849	0.86479	0.12804	0.16284	0.04828	1585.81
MS2	0.0003921	0.69820	0.09924	0.24871	0.08071	1408.77
NC1	0.0000137	0.29071	0.08446	0.27754	0.10062	1005.68
NC9	0.000001	0.00000	0.25544	0.18466	0.01881	3673.67
OK1	0.0000003	0.73005	0.02376	0.07187	0.02708	229.93
OK6	0.0000003	0.72734	0.06226	0.32441	0.05748	833.21
SC1	0.0000134	0.36378	0.11645	0.17466	0.04870	1578.60
SC2	0.0000106	0.42801	0.22021	0.25220	0.06043	2447.93
SC5	0.0000238	0.77937	0.13022	0.16082	0.04651	1679.59
TN7	0.0000508	0.77158	0.29484	0.34071	0.06196	4874.02
TX10	0	1.00000	0.00000	0.00000	0.00000	0.00
TX14	0	0.78047	0.14563	0.15588	0.04606	1857.75
TX16	0	1.00000	0.00000	0.00000	0.00000	0.00
TX17	0	0.93780	0.11954	0.26570	0.05372	1492.72
TX18	0	1.00000	0.00000	0.00000	0.00000	0.00
TX19	0	0.64741	0.19299	0.15630	0.03962	2244.25
TX21	0	0.45050	0.20105	0.26903	0.05559	3642.52
TX26	0	0.00000	0.09396	0.05446	0.06698	3141.70
TX28	0	0.47027	0.11251	0.20681	0.05276	1271.24
VA2	0.0003751	0.00000	0.06642	0.00430	0.08013	1129.65
VA4	0.0000373	0.65511	0.14636	0.40887	0.08432	1721.73
VA6	0.0001511	0.80909	0.12100	0.40875	0.11515	1624.88

	Equal Population	Political Boundary	Ed. Attainment	Percent Urban	Housing Status	Per Cap. Income
District	Relative Deviation	Pop in Nest Cnty	Std. Deviation	Std. Deviation	Std. Deviation	Std. Deviation
Group	Mean or t	Mean or t	Mean or t	Mean or t	Mean or t	Mean or t
VA7	0.0002773	0.26350	0.19180	0.30461	0.07500	2925.95
VA8	0.0000053	0.63429	0.04131	0.00285	0.13357	865.66
VA9	0.0001902	0.96761	0.21479	0.29615	0.08995	1264.07
WV1	0.0003852	1.00000	0.12474	0.21198	0.03875	1190.74
WV3	0.0005447	1.00000	0.14019	0.22722	0.03541	1502.51
Group mean	0.00039956	0.59601	0.11279	0.17598	0.05119	1530.43
Group t	-2.762436918	-11.01554	0.11029	-0.31507	5.18071	-3.36
United States Comparison Group						
AR2	0.0004581	1.00000	0.14368	0.26745	0.06580	1836.83
CA22	0.0010185	0.43953	0.00989	0.06350	0.02779	953.79
CA28	0.0010814	1.00000	0.00000	0.00000	0.00000	0.00
CA36	0.0023674	1.00000	0.00000	0.00000	0.00000	0.00
CO3	0.0000066	0.94032	0.16280	0.30862	0.05733	3314.97
CT4	0.0001596	1.00000	0.00000	0.00000	0.00000	0.00
DE1	0	1.00000	0.11185	0.30446	0.02122	2229.22
FL6	0.0000009	0.15413	0.07891	0.26519	0.02695	990.82
FL17	0.0000008	1.00000	0.00000	0.00000	0.00000	0.00
ID1	0.0000347	0.83621	0.15006	0.26166	0.05047	1471.25
IL5	0.0000001	1.00000	0.00000	0.00000	0.00000	0.00
IL8	0.0000001	0.00000	0.03687	0.06760	0.04290	312.89
IL12	0.0000001	0.76558	0.12210	0.20852	0.06165	878.41
IL16	0.0000001	0.88631	0.07661	0.16997	0.05183	1592.30
IA5	0.0001908	1.00000	0.05727	0.23034	0.02772	747.40
KS3	0.0000734	0.81129	0.25431	0.10875	0.06803	4666.72
LA2	0.0002725	0.00000	0.07505	0.00536	0.07387	500.86
LA6	0.0000011	0.28982	0.26284	0.28847	0.08837	3658.02
MD2	0.0000008	0.31903	0.02107	0.08797	0.05096	915.42
MA1	0.0000008	0.34073	0.12965	0.19254	0.04673	491.07
MA6	0.0000008	0.00000	0.03526	0.02458	0.05785	676.46

	Equal Population	Political Boundary	Ed. Attainment	Percent Urban	Housing Status	Per Cap. Income
District	Relative Deviation	Pop in Nest Cnty	Std. Deviation	Std. Deviation	Std. Deviation	Std. Deviation
Group	Mean or t	Mean or t	Mean or t	Mean or t	Mean or t	Mean or t
MI1	0.0000001	0.97938	0.11042	0.19000	0.04575	1390.52
MI14	0.0000001	1.00000	0.00000	0.00000	0.00000	0.00
MO1	0.0004901	1.00000	0.11423	0.00631	0.14561	2722.69
NM2	0.0004531	0.00000	0.21055	0.18293	0.06221	5875.77
NY6	0.0000004	1.00000	0.00000	0.00000	0.00000	0.00
NY18	0.0000004	0.00000	0.07617	0.00000	0.10747	4827.04
NC1	0.0000137	0.29071	0.08446	0.27754	0.10062	1005.68
NC7	0.0000007	0.10865	0.14649	0.32070	0.11852	2014.90
OH6	0.0000003	0.84910	0.12168	0.14255	0.04168	1775.87
OK1	0.0000003	0.73005	0.02376	0.07187	0.02708	229.93
OK6	0.0000003	0.41559	0.06226	0.32441	0.05748	833.21
PA8	0.0000097	0.72825	0.02994	0.01997	0.01041	386.79
PA9	0.0000185	0.77106	0.04526	0.20988	0.02368	1029.99
PA11	0.0002129	0.74500	0.06763	0.16091	0.02653	903.41
SC1	0.0000134	0.36378	0.11645	0.17466	0.04870	1578.60
SC5	0.0000238	0.77937	0.13022	0.16082	0.04651	1679.59
TN7	0.0000508	0.77158	0.29484	0.34071	0.06196	4874.02
TX1	0	0.82064	0.08368	0.19406	0.04868	1098.70
TX11	0	0.95155	0.09482	0.19406	0.07376	813.91
TX14	0	0.78047	0.14563	0.15588	0.04606	1857.75
TX15	0	0.82500	0.10033	0.13114	0.03139	1317.89
TX20	0	1.00000	0.00000	0.00000	0.00000	0.00
TX21	0	0.45050	0.20105	0.26903	0.05559	3642.52
TX24	0	0.16026	0.04448	0.18040	0.07505	716.96
VT1	0	1.00000	0.13209	0.21033	0.03176	1699.06
WA4	0.0000008	0.89205	0.12169	0.18912	0.02670	1406.56
WA5	0.0000008	0.94228	0.13045	0.24582	0.05174	961.56
WI6	0.0002246	0.50210	0.07648	0.26421	0.04223	1052.51
Group mean	0.0001466	0.66613	0.09170	0.15250	0.04544	1447.59
Group t	-2.563716221	-13.41268	2.16481	1.15730	6.26285	-1.98

VITA

Kyle Thomas Rector was born in El Paso, Texas on 3 October 1970. He attended and graduated from Mount Tabor High School in Winston-Salem, North Carolina in June, 1988. He entered The Ohio State University, Columbus, Ohio during September 1988 where in June, 1992 he received the Bachelor of Arts degree with a major in geography. That Autumn he enrolled at the University of Tennessee, Knoxville. In December 1995 he received a Master of Science degree with a major in geography. Currently he is working towards a Doctor of Philosophy degree with a major in geography at the University of Tennessee, Knoxville.