# House Apportionment 2010: States Gaining, Losing, and on the Margin 

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## Summary

On December 21, 2010, the Commerce Department released 2010 Census population figures and the resulting reapportionment of seats in the House of Representatives. The apportionment population of the 50 states in 2010 is $309,183,463$, a figure $9.9 \%$ greater than in 2000 . Just as in the $108^{\text {th }}$ Congress, 12 seats will shift among 18 states in the $113^{\text {th }}$ Congress as a result of the reapportionment. The next census data release will begin February 2011, when the Census Bureau will provide states the small-area data necessary to re-draw congressional and state legislative districts in time for the 2012 elections.

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## Background

The Census Bureau's release of the first figures from the 2010 Census on December 21, 2010, will shift 12 seats among 18 states for the $113^{\text {th }}$ Congress (beginning in January 2013). Illinois, Iowa, Louisiana, Massachusetts, Michigan, Missouri, New Jersey, and Pennsylvania will each lose one seat; New York and Ohio will each lose two seats. Arizona, Georgia, Nevada, South Carolina, Utah, and Washington will each gain one seat; Florida will gain two seats, and Texas will gain four seats. ${ }^{1}$

The reapportionment of House seats in 2010 is based on an apportionment population that is different from the actual resident population of each state. For apportionment purposes since 1970 (with the exception of 1980), the Census Bureau has added to each state's resident population the foreign-based, overseas military and federal employees and their dependents, who are from the state but not residing therein at the time of the census. In 2010, these additional persons increased the census count for the 50 states by $1,042,523$, a little less than twice the number as in 2000. If the foreign-based military and federal employees had not been included in the counts, there would be no change in the apportionment of seats, although the order of seat assignment would change.

## Tables

Table 1 sets out the apportionment population as of April 1, 2000, and April 1, 2010; it also provides the resulting seat assignments of each of the 50 states. The table also illustrates the population change from 2000 (shown by total and percent), the current House seat allocation, and what it will be at the beginning of the $113^{\text {th }}$ Congress, and the average sized congressional district for each state in the $113^{\text {th }}$ Congress. For the $113^{\text {th }}$ Congress, the national average size congressional district will be 710,767, and districts will range in size from 527,624 (for Rhode Island's two congressional districts) to a maximum of 994,416 (for Montana's single district).

[^0]Table I.Apportionment of Seats in the House of Representatives Based on the 2010 Census

| State | 2000 <br> Apportionment Population ${ }^{\text {a }}$ | Seats in 108th Congress | 2010 <br> Apportionment Population ${ }^{\text {b }}$ | 2010 <br> Overseas/ <br> Federalc | Change from 2000 Total | Percentage Change from 2000 | Seats in $113^{\text {th }}$ Congress | Seat Change from 2000 | 2010 Average CD Population ${ }^{\text {d }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AL | 4,461, I30 | 7 | 4,802,982 | 23,246 | 341,852 | 7.66\% | 7 |  | 682,819 |
| AK | 628,933 | 1 | 721,523 | 11,292 | 92,590 | 14.72\% | 1 |  | 710,231 |
| AZ | 5,140,683 | 8 | 6,412,700 | 20,683 | 1,272,017 | 24.74\% | 9 | 1 | 710,224 |
| AR | 2,679,733 | 4 | 2,926,229 | 10,311 | 246,496 | 9.20\% | 4 |  | 728,980 |
| CA | 33,930,798 | 53 | 37,341,989 | 88,033 | 3,411,191 | 10.05\% | 53 |  | 702,905 |
| CO | 4,311,882 | 7 | 5,044,930 | 15,734 | 733,048 | 17.00\% | 7 |  | 718,457 |
| CT | 3,409,535 | 5 | 3,581,628 | 7,531 | 172,093 | 5.05\% | 5 |  | 714,819 |
| DE | 785,068 | 1 | 900,877 | 2,943 | 115,809 | 14.75\% | 1 |  | 897,934 |
| FL | 16,028,890 | 25 | 18,900,773 | 99,463 | 2,871,883 | 17.92\% | 27 | 2 | 696,345 |
| GA | 8,206,975 | 13 | 9,727,566 | 39,913 | 1,520,591 | 18.53\% | 14 | 1 | 691,975 |
| HI | 1,216,642 | 2 | 1,366,862 | 6,561 | 150,220 | 12.35\% | 2 |  | 680,151 |
| ID | 1,297,274 | 2 | 1,573,499 | 5,917 | 276,225 | 21.29\% | 2 |  | 783,791 |
| IL | 12,439,042 | 19 | 12,864,380 | 33,748 | 425,338 | 3.42\% | 18 | -I | 712,813 |
| IN | 6,090,782 | 9 | 6,501,582 | 17,780 | 410,800 | 6.74\% | 9 |  | 720,422 |
| IA | 2,931,923 | 5 | 3,053,787 | 7,432 | 121,864 | 4.16\% | 4 | -1 | 761,589 |
| KS | 2,693,824 | 4 | 2,863,813 | 10,695 | 169,989 | 6.31\% | 4 |  | 713,280 |
| KY | 4,049,431 | 6 | 4,350,606 | 11,239 | 301,175 | 7.44\% | 6 |  | 723,228 |
| LA | 4,480,271 | 7 | 4,553,962 | 20,590 | 73,691 | 1.64\% | 6 | -1 | 755,562 |
| ME | 1,277,731 | 2 | 1,333,074 | 4,713 | 55,343 | 4.33\% | 2 |  | 664,181 |
| MD | 5,307,886 | 8 | 5,789,929 | 16,377 | 482,043 | 9.08\% | 8 |  | 721,694 |
| MA | 6,355,568 | 10 | 6,559,644 | 12,015 | 204,076 | 3.21\% | 9 | -1 | 727,514 |
| MI | 9,955,829 | 15 | 9,911,626 | 27,986 | -44,203 | -0.44\% | 14 | -1 | 705,974 |
| MN | 4,925,670 | 8 | 5,314,879 | 10,954 | 389,209 | 7.90\% | 8 |  | 662,991 |


| State | 2000 <br> Apportionment Population ${ }^{\text {a }}$ | Seats in 108th Congress | 2010 <br> Apportionment Population ${ }^{\text {b }}$ | 2010 <br> Overseas/ Federalc | Change from 2000 Total | Percentage Change from 2000 | Seats in ll3th Congress | Seat Change from 2000 | 2010 Average CD Population ${ }^{\text {d }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MS | 2,852,927 | 4 | 2,978,240 | 10,943 | 125,313 | 4.39\% | 4 |  | 741,824 |
| MO | 5,606,260 | 9 | 6,011,478 | 22,551 | 405,218 | 7.23\% | 8 | -1 | 748,616 |
| MT | 905,316 | 1 | 994,416 | 5,001 | 89,100 | 9.84\% | 1 |  | 989,415 |
| NB | 1,715,369 | 3 | 1,831,825 | 5,484 | 116,456 | 6.79\% | 3 |  | 608,780 |
| NV | 2,002,032 | 3 | 2,709,432 | 8,881 | 707,400 | 35.33\% | 4 | 1 | 675,138 |
| NH | 1,238,415 | 2 | 1,321,445 | 4,975 | 83,030 | 6.70\% | 2 |  | 658,235 |
| NJ | 8,424,354 | 13 | 8,807,501 | 15,607 | 383,147 | 4.55\% | 12 | -I | 732,658 |
| NM | 1,823,821 | 3 | 2,067,273 | 8,094 | 243,452 | 13.35\% | 3 |  | 686,393 |
| NY | 19,004,973 | 29 | 19,421,055 | 42,953 | 416,082 | 2.19\% | 27 | -2 | 717,707 |
| NC | 8,067,673 | 13 | 9,565,78। | 30,298 | 1,498,108 | 18.57\% | 13 |  | 733,499 |
| ND | 643,756 | 1 | 675,905 | 3,314 | 32,149 | 4.99\% | 1 |  | 672,591 |
| OH | 11,374,540 | 18 | 11,568,495 | 31,991 | 193,955 | 1.71\% | 16 | -2 | 721,032 |
| OK | 3,458,819 | 5 | 3,764,882 | 13,531 | 306,063 | 8.85\% | 5 |  | 750,270 |
| OR | 3,428,543 | 5 | 3,848,606 | 17,532 | 420,063 | 12.25\% | 5 |  | 766,215 |
| PA | 12,300,670 | 19 | 12,734,905 | 32,526 | 434,235 | 3.53\% | 18 | -1 | 705,688 |
| RI | 1,049,662 | 2 | 1,055,247 | 2,680 | 5,585 | 0.53\% | 2 |  | 526,284 |
| SC | 4,025,061 | 6 | 4,645,975 | 20,611 | 620,914 | 15.43\% | 7 | 1 | 660,766 |
| SD | 756,874 | 1 | 819,761 | 5,581 | 62,887 | 8.31\% | 1 |  | 814,180 |
| TN | 5,700,037 | 9 | 6,375,431 | 29,326 | 675,394 | 11.85\% | 9 |  | 705,123 |
| TX | 20,903,994 | 32 | 25,268,418 | 122,857 | 4,364,424 | 20.88\% | 36 | 4 | 698,488 |
| UT | 2,236,714 | 3 | 2,770,765 | 6,880 | 534,051 | 23.88\% | 4 | I | 690,971 |
| VT | 609,890 | 1 | 630,337 | 4,596 | 20,447 | 3.35\% | 1 |  | 625,741 |
| VA | 7,100,702 | 11 | 8,037,736 | 36,712 | 937,034 | 13.20\% | 11 |  | 727,366 |
| WA | 5,908,684 | 9 | 6,753,369 | 28,829 | 844,685 | 14.30\% | 10 | 1 | 672,454 |
| WV | 1,813,077 | 3 | 1,859,815 | 6,821 | 46,738 | 2.58\% | 3 |  | 617,665 |

CRS-3

| State | $2000$ <br> Apportionment Population ${ }^{\text {a }}$ | Seats in 108th Congress | $2010$ <br> Apportionment Population ${ }^{\text {b }}$ | 2010 <br> Overseas/ Federal | Change from 2000 Total | Percentage Change from 2000 | Seats in ll3th Congress | Seat Change from 2000 | 2010 Average CD Population ${ }^{\text {d }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WI | 5,371,210 | 8 | 5,698,230 | 11,244 | 327,020 | 6.09\% | 8 |  | 710,873 |
| WY | 495,304 | 1 | 568,300 | 4,674 | 72,996 | 14.74\% | 1 |  | 563,626 |
| Total | 28I,424,177 | 435 | 309,183,463 | 1,039,648 | 27,759,286 | 9.86\% | 435 | Nat. mean: | 708,377 |
|  |  |  |  |  |  |  |  | Minimum: | 526,284 |
| House size: Const, Minimum e: |  |  | 50 |  |  |  |  | Median: | 710,552 |
| House size: Const, Maximum e: |  |  | 10,306 |  |  |  |  | Maximum: | 989,415 |

## Notes:

a. See, "2000 Apportionment Results," table I at http://www.census.gov/population/apportionment/data/2000_apportionment_results.html.
b. See, "A New Portrait of America, First 2010 Census Results," table I at http://20IO.census.gov/news/press-kits/apportionment/apport.html.
c. See, "A New Portrait of America, First 2010 Census Results," table 3 at http://20IO.census.gov/news/press-kits/apportionment/apport.html.
d. The average size congressional district for each state is calculated on the resident population for each state, which is the apportionment population minus the overseas military (and other federal) employees.
e. Article I, Section 2 of the Constitution establishes the minimum size of the House (one Representative per state), and a maximum (one for every 30,000 persons).

## Priority Lists and Seat Assignments

The reapportionment process for the House relies on rounding principles, but the actual procedure involves computing a "priority list" of seat assignments for the states. The Constitution allocates the first 50 seats because each state must have at least one Representative. A priority list assigns the remaining 385 seats for a total of 435 . Table 2 displays the end of the "priority list" that will be used to allocate Representatives based on the 2010 Census apportionment population. The law only provides for 435 seats in the House, but the tables illustrate not only the last seats assigned by the apportionment formula (ending at 435), but the states that would just miss getting additional representation. ${ }^{2}$

Table 2. Population Needed to Gain or Lose a Seat Using the 2010 Census
Apportionment Population

| Seat | Last Seat <br> Allocated | State | 2010 <br> Apportionment Population | Priority Value a | Pop. Needed to Gain or Lose Seat ${ }^{b}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 420 | 26 | FL | 18,900,773 | 741,349.31 | -823,146 |
| 421 | 7 | AL | 4,802,982 | 741,116.21 | -207,729 |
| 422 | 51 | CA | 37,341,989 | 739,481.57 | -1,536,070 |
| 423 | 18 | IL | 12,864,380 | 735,407.66 | -460,846 |
| 424 | 14 | MI | 9,911,626 | 734,698.60 | -345,845 |
| 425 | 27 | NY | 19,421,055 | 733,000.49 | -634,234 |
| 426 | 35 | TX | 25,268,418 | 732,494.84 | -808,318 |
| 427 | 18 | PA | 12,734,905 | 728,006.06 | -331,371 |
| 428 | 52 | CA | 37,341,989 | 725,121.34 | -826,973 |
| 429 | 14 | GA | 9,727,566 | 721,055.17 | -161,785 |
| 430 | 7 | SC | 4,645,975 | 716,889.51 | -50,722 |
| 431 | 27 | FL | 18,900,773 | 713,363.71 | - 1 13,952 |
| 432 | 10 | WA | 6,753,369 | 711,867.60 | -26,608 |
| 433 | 36 | TX | 25,268,418 | 711,857.03 | -99,183 |
| 434 | 53 | CA | 37,341,989 | 711,308.24 | -117,877 |
| 435 | 8 | MN | 5,314,879 | 710,230.58 | -8,738 |
| Last seat assignment by law |  |  |  |  |  |
| 436 | 14 | NC | 9,565,78। | 709,062.86 | 15,753 |
| 437 | 9 | MO | 6,011,478 | 708,459.48 | 15,028 |

[^1]| Seat | Last Seat <br> Allocated | State | 20I0 <br> Apportionment <br> Population | Priority <br> Value $^{\text {a }}$ | Pop. Needed to Gain <br> or Lose Seat ${ }^{\text {b }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 438 | 28 | NY | $19,421,055$ | $706,336.94$ | 107,057 |
| 439 | 13 | NJ | $8,807,501$ | $705,164.44$ | 63,276 |
| 440 | 2 | MT | 994,416 | $703,158.30$ | 10,002 |
| 441 | 7 | LA | $4,553,962$ | $702,691.59$ | 48,858 |
| 442 | 6 | OR | $3,848,606$ | $702,656.11$ | 41,487 |
| 443 | 17 | OH | $11,568,495$ | $701,443.04$ | 144,928 |
| 444 | 12 | VA | $8,037,736$ | $699,595.12$ | 122,192 |
| 445 | 54 | CA | $37,341,989$ | $698,011.59$ | 653,688 |
| 446 | 19 | IL | $12,864,380$ | $695,626.00$ | 270,086 |
| 447 | 37 | TX | $25,268,418$ | $692,350.39$ | 652,566 |
| 448 | 10 | MA | $6,559,644$ | $691,447.19$ | 178,195 |
| 449 | 19 | PA | $12,734,905$ | $688,624.80$ | 399,561 |
| 450 | 28 | FL | $18,900,773$ | $687,414.47$ | 627,339 |

Source: Computations of priority values and populations needed to gain or lose a seat by CRS. See CRS Report R4I357, The U.S. House of Representatives Apportionment Formula in Theory and Practice, by Royce Crocker, for an explanation of formula for allocating House seats.

## Notes:

a. Each state's claim to representation in the House is based on a "priority value" determined by the following formula:
$P V=P /[n(n-I)]^{1 / 2}$; where $P V=$ the state's priority value, $P=$ the state's population, and $n=$ the state's $n^{\text {th }}$ seat in the House. For example, the priority value of Oregon's $6^{\text {th }}$ seat is:

PV OR6 $=3,848,606 /[6(6-1)]^{1 / 2}$
$=3,848,606 /[30]^{1 / 2}$
$=3,848,606 / 5.477225575$
$=702,656.11$
The actual seat assignments are made by ranking all of the states' priority values from highest to lowest until 435 seats are allocated.
b. These figures represent the population a state would either need to lose in order to drop below the 435th seat cutoff, or to gain to rise above the cutoff. If, in the case of Oregon, 41,487 more persons had been counted in the Census, the state's priority value would have been increased to $710,230.56$ which would have resulted in a new sequence number of 435 because Minnesota's $8^{\text {th }}$ seat would have occupied the $4^{436}$ position in the priority list.

## Options for States Losing Seats

The apportionment counts transmitted by the Census Bureau to the President (who then sends them to Congress) are considered final. Thus, most states that will lose seats in the $113^{\text {th }}$ Congress have only one possible option for retaining them: urge Congress to increase the size of the House. Any other option such as changing the formula used in the computations, or changing the components of the apportionment population (such as omitting the foreign-based military and
federal civilian employees) might only affect a small number of states if the House stays at 435 seats. ${ }^{3}$

As noted above, the 435-seat limit was imposed in 1929 by 46 Stat. 21, 26-27. Altering the size of the House would require a new law setting a different limit. Article 1, Section 2 of the Constitution establishes a minimum House size (one Representative for each state), and a maximum House size (one Representative for every 30,000, or 10,306 based on the 2010 Census). In 2013, a House size of 468 would be necessary to prevent states from losing seats they held from the $108^{\text {th }}$ to the $112^{\text {th }}$ Congresses, but, by retaining seats through an increase in the House size, other states would also have their delegations become larger. At a House size of 468, California's delegation size, for example, would be 56 instead of 53 seats.

## The Redistricting Process

The apportionment figures, released on December 21, 2010, are made up of three components: total resident population figures for the 50 states and the District of Columbia, the foreign-based military and other federal employees allocated to each state and DC, and the sum of these numbers, which become the apportionment population.

These numbers (minus DC) are all that is needed to reapportion the House, but most states need figures for very small geographic areas in order to draw new legislative and congressional districts. ${ }^{4}$ The Census Bureau must provide small-area population totals to the legislature and governor of each state by one year after the census (e.g., April 1, 2011).

The Census Bureau data to be delivered by April 1, 2011 (some states will start receiving the information in February 2011), are often referred to as the P.L. 94-171 program data (89 Stat. 1023). This program provides to each state information from the 2010 Census. As such, the information is very limited-including age, race, and Hispanic origin. No other demographic information that might be useful to the persons constructing political jurisdictions, such as income or employment status, are available in the P.L. 94-171 data. Such data, however, are available from the results of the American Community Survey for geographic areas with populations as small as 20,000 persons. ${ }^{5}$

Census data are usually reported by political jurisdictions (states, cities, counties, and towns), and within political jurisdictions by special Census geography (such as Census designated places, tracts, block numbering areas, and blocks). The P.L. 94-171 program allows states, which participate in it (49 in 2010), to request Census data by certain nontraditional Census geography

[^2]such as voting districts (precincts) and state legislative districts. ${ }^{6}$ These special political jurisdiction counts enable the persons drawing the district lines to assess past voting behavior when redrawing congressional and state legislative districts.

In most states, redrawing congressional districts is the responsibility of the state legislature with the concurrence of the governor. In seven states, Arizona, California, Hawaii, Idaho, Montana, New Jersey, and Washington, a non-partisan or bi-partisan commission is responsible for drawing and approving the plans. ${ }^{7}$ Some states have explicit deadlines in law to complete their congressional districting. Most do not, so the effective deadline for the legislatures or commissions to complete their work will be whatever deadlines are established in the states for filing for primaries for the 2012 elections.

Although many states have standards mandating equal populations, compactness, contiguousness, and other goals to not split counties, towns, and cities, federal law controls the redistricting process. Other than a requirement that multi-member states cannot elect Representatives at-large (2 U.S.C. 2c) however, no federal statutory law establishes explicit standards for redistricting. The principal laws that apply are the Supreme Court decisions mandating one person, one vote and the Voting Rights Act.

The fundamental federal rule governing redistricting congressional districts, one person, one vote, was promulgated by the Supreme Court in Wesberry v. Sanders ( 376 U.S. 7, 1964). The Court has refined that ruling in a series of cases culminating in Karcher v. Daggett (462 U.S. 725, 1983) that one person, one vote means that any population deviation among districts in a state must be justified, but the deviations from absolute equality may be permitted if the states strive to make districts more compact, respect municipal boundaries, preserve the cores of prior districts, or avoid contests between incumbents. ${ }^{8}$

Section 2 of the Voting Rights Act (VRA) applies nationwide. It prohibits states or localities from imposing a "voting qualification or prerequisite to voting or standard, practice or procedure ... in a manner which results in the denial or abridgement of the right to vote on account of race or color." Section 5 of the act applies only to certain jurisdictions, which must have their redistricting plans pre-cleared by a court or the Justice Department before they become effective. ${ }^{9}$ The Supreme Court interpreted the VRA's application to redistricting in a series of cases responding, in part, to the extraordinarily complicated districts created by many states in the 1990s to maximize minority representation (beginning with Shaw v. Reno, 509 U.S. 630, 1993). The court ended the decade by establishing new principles concerning such practices: (1) race may be considered in districting to remedy past discrimination; (2) but, states must have a

[^3]compelling state interest to ignore traditional redistricting principles and "gerrymander" to establish majority-minority districts; (3) courts will apply "strict scrutiny" to such assertions that racial "gerrymanders" are necessary to determine whether such plans are narrowly tailored to achieve the compelling state interest.

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[^0]:    ${ }^{1}$ See Table 1 for each state's data. These allocations are based on a 435 seat House of Representatives. The 435 -seat House was established in 1929 by the Permanent Apportionment Act, ( 46 Stat. 21, 26-27) which ended the $19^{\text {th }}$ century practice of increasing the House size after every census but one. There have been no permanent increases in the House size for most of the $20^{\text {in }}$ century.

[^1]:    ${ }^{2}$ The figures in Table $\mathbf{2}$ for the "population needed to gain or lose a seat" are somewhat misleading because it is unlikely that one state's population total would be adjusted without others changing as well. Since the method of equal proportions used to allocate seats in the House uses all state populations simultaneously, changes in several state populations may also result in changes to the "populations needed to gain or lose a seat."

[^2]:    ${ }^{3}$ After the 1990 Census Montana and Massachusetts challenged the apportionment formula, and the inclusion of the foreign-based military and civilians in the apportionment population. The Supreme Court affirmed the constitutionality of the equal proportions formula and the inclusion of the foreign-based military and civilians in the counts in two separate cases: U.S. Dept. of Commerce v. Montana, 112 S. Ct. 1415 (1992) and Franklin v. Massachusetts, 112 S. Ct. 2767 (1992).
    ${ }^{4}$ With respect to single-member states, this information would be used to draw state legislative and local political jurisdictions.
    ${ }^{5}$ For information about the 2005-2009 American Community Survey data, see http://www.census.gov/acs/www/ data_documentation/2009_release/. For information about the American Community Survey, see CRS Report R41532, The American Community Survey: Development, Implementation, and Issues for Congress, by Jennifer D. Williams.

[^3]:    ${ }^{6}$ For a fuller discussion of this topic see the U.S. Census Bureau publication, Strength in Numbers : Your Guide to Census 2010 Redistricting Data From the U.S. Census Bureau, http://www.census.gov/rdo/.
    ${ }^{7}$ National Conference of State Legislatures, Redistricting Law 2010, pp. 143-145. California adopted a redistricting commission initiative in 2008 for state legislative districts, and extended it to U.S. congressional districts in a 2010 initiative vote.
    ${ }^{8}$ For a more thorough discussion of the legal issues, see CRS Report RS22479, Congressional Redistricting: A Legal Analysis of the Supreme Court Ruling in League of United Latin American Citizens (LULAC) v. Perry, by L. Paige Whitaker; CRS Report RS22628, Congressional Redistricting: The Constitutionality of Creating an At-Large District, by L. Paige Whitaker; CRS Report RL30870, Census 2000: Legal Issues re: Data for Reapportionment and Redistricting, by Margaret Mikyung Lee and; CRS Report RS21593, Redistricting and the Voting Rights Act: A Legal Analysis of Georgia v. Ashcroft, by L. Paige Whitaker.
    ${ }^{9}$ Section 2: 42 U.S.C. Section 1973(a) (1996); Section 5: 42 U.S.C. Section 1973(c).

