# Congressional Plan Comparison

| | 2002 Court | 2010 Election | C1101-0 | MACA Example | Draw the Line | Hippert | Martin | Britton | 2012 Court |
|---|---|---|---|---|---|---|---|---|---|
| **Population Equality** | | | | | | | | | |
| Overall Range | 1 | 144,854 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| | | | | | | | | | |
| **Minority Districts -Voting Age Population** | | | | | | | | | |
| Districts over 30% minority population | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| Largest minority population | 23.1% | 28.8% | 30.5% | 27.0% | 27.7% | 30.5% | 30.8% | 27.2% | 29.0% |
| Largest Black population | 11% | 13% | 14% | 12% | 13% | 14% | 15% | 12% | 14% |
| Largest Asian population | 6% | 9% | 9% | 9% | 8% | 9% | 8% | 9% | 9% |
| Largest Hispanic population | 5% | 8% | 8% | 7% | 7% | 8% | 7% | 7% | 7% |
| Largest American Indian population | 3% | 3% | 5% | 4% | 5% | 5% | 3% | 3% | 3% |
| | | | | | | | | | |
| **Compactness** | | | | | | | | | |
| Reock Mean (higher is better) | .42 | .41 | .37 | .44 | .40 | .37 | .37 | .37 | .41 |
| Polsby-Popper Mean (higher is better) | .31 | .30 | .30 | .37 | .30 | .30 | .31 | .33 | .33 |
| Population Polygon  (higher is better) | .68 | .68 | .66 | .73 | .68 | .66 | .67 | .70 | .71 |
| Population Circle (higher is better) | .34 | .34 | .33 | .34 | .35 | .33 | .30 | .35 | .36 |
| Ehrenburg (higher is better) | .21 | .27 | .21 | .24 | .32 | .21 | .18 | .21 | .32 |
| Schwartzberg  (lower is better) | 1.71 | 1.72 | 1.70 | 1.59 | 1.72 | 1.70 | 1.74 | 1.72 | 1.68 |
| Length-Width (lower is better) | 62.64 | 62.64 | 60.38 | 49.60 | 61.61 | 60.38 | 64.99 | 59.9 | 63.66 |
| Perimeter Length (shorter is better) | 4,226 | 4,232 | 4,333 | 4,116 | 4,415 | 4,333 | 4,205 | 4,429 | 4,243 |
| | | | | | | | | | |
| **Political Subdivision Splits** | | | | | | | | | |
| Counties | | | | | | | | | |
|  Number split | 8 | 8 | 7 | 7 | 18 | 7 | 7 | 7 | 9 |
|  Times split | 13 | 13 | 8 | 8 | 23 | 8 | 9 | 10 | 12 |
| Cities, Townships, Unorganized Territories | | | | | | | | | |
|  Number split | 7 | 20 | 7 | 9 | 42 | 7 | 7 | 10 | 7 |
|  Times split | 7 | 20 | 7 | 9 | 44 | 7 | 7 | 10 | 7 |

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| | 2002 Court | 2010 Election | C1101-0 | MACA Example | Draw the Line | Hippert | Martin | Britton | 2012 Court |
|---|---|---|---|---|---|---|---|---|---|
| **Precincts** | | | | | | | | | |
| Number split | 12 | 26 | 29 | 18 | 51 | 29 | 18 | 10 | 9 |
| Times split | 12 | 26 | 29 | 18 | 53 | 29 | 18 | 10 | 9 |
| **Multicounty Cities** | | | | | | | | | |
| Number split | 11 | 14 | 16 | 18 | 11 | 16 | 23 | 16 | 14 |
| Times split | 11 | 15 | 16 | 19 | 11 | 16 | 23 | 16 | 14 |
| **Communities of Interest Splits** | | | | | | | | | |
| Indian Reservations | | | | | | | | | |
| Number split | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 |
| Times split | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 |
| Prior Districts (2010 election) | | | | | | | | | |
| Average core of prior district | | | 80% | 83% | 89% | 80% | 78% | 82% | 92% |
| **Incumbent Pairs** | | | | | | | | | |
| Incumbents Paired | 2 | 0 | 0 | 2 | 2 | 0 | 2 | 0 | 2 |
| Open Seats | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| Democrat v. Democrat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Republican v. Republican | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Democrat v. Republican | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| **Political Competitiveness** | | | | | | | | | |
| Competitive Districts (not more than 8% difference) | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 5 | 5 |
| Democratic Plurality | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 |
| Republican Plurality | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 |
| Packed Democratic | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Packed Republican | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# Legislative Plan Comparison

| | 2002 Court | 2010 Election | L1101-1 | MACA Example | Draw the Line | Hippert | Martin | Britton | 2012 Court |
|---|---|---|---|---|---|---|---|---|---|
| **Population Equality** | | | | | | | | | |
| SENATE DISTRICTS | | | | | | | | | |
| Overall Range | 1.35% | 52.74% | 1.81% | 0.84% | 1.76% | 1.96% | 1.85% | 0.75% | 1.42% |
| Mean Deviation | 0.28% | 8.82% | 0.41% | 0.16% | 0.40% | 0.46% | 0.40% | 0.17% | 0.21% |
| HOUSE DISTRICTS | | | | | | | | | |
| Overall Range | 1.56% | 51.26% | 1.98% | 1.60% | 1.98% | 2.42% | 1.98% | 0.79% | 1.60% |
| Mean Deviation | 0.32% | 9.35% | 0.57% | 0.27% | 0.55% | 0.59% | 0.51% | 0.23% | 0.29% |
| | | | | | | | | | |
| **Minority Districts -Voting Age Population** | | | | | | | | | |
| SENATE DISTRICTS | | | | | | | | | |
| Districts over 30% minority population | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 |
| Largest minority population | 53.9% | 56.1% | 51.0% | 52.4% | 48.6% | 53.6% | 54.2% | 51.1% | 53.5% |
| Largest Black population | 35.7% | 36.2% | 32.1% | 28.9% | 30.1% | 32.2% | 35.0% | 31.8% | 34.6% |
| Largest Asian population | 11.6% | 18.8% | 24.5% | 19.4% | 18.0% | 23.8% | 19.4% | 19.2% | 19.2% |
| Largest Hispanic population | 18.4% | 22.7% | 20.6% | 11.0% | 14.2% | 20.7% | 20.9% | 21.1% | 20.8% |
| Largest American Indian population | 12% | 14% | 9% | 13% | 18% | 9% | 14% | 16% | 14% |
| HOUSE DISTRICTS | | | | | | | | | |
| Districts over 30% minority population | 9 | 13 | 12 | 13 | 11 | 12 | 12 | 13 | 13 |
| Largest minority population | 66.1% | 65.2% | 61.5% | 54.4% | 62.6% | 59.7% | 54.5% | 55.8% | 56.4% |
| Largest Black population | 45.8% | 40.3% | 34.2% | 33.9% | 33.9% | 34.2% | 35.8% | 34.2% | 35.2% |
| Largest Asian population | 19.8% | 24.9% | 28.8% | 22.5% | 27.9% | 25.8% | 21.8% | 22.9% | 23.1% |
| Largest Hispanic population | 19.0% | 26.1% | 22.7% | 17.8% | 25.2% | 22.8% | 22.2% | 21.5% | 21.5% |
| Largest American Indian population | 15% | 15% | 14% | 16% | 24% | 14% | 25% | 16% | 16% |

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| | 2002 Court | 2010 Election | L1101-1 | MACA Example | Draw the Line | Hippert | Martin | Britton | 2012 Court |
|---|---|---|---|---|---|---|---|---|---|
| **Compactness** | | | | | | | | | |
| SENATE DISTRICTS | | | | | | | | | |
| Reock Mean (higher is better) | .44 | .44 | .42 | .43 | .46 | .42 | .42 | .43 | .45 |
| Polsby-Popper Mean (higher is better) | .41 | .40 | .40 | .44 | .40 | .40 | .40 | .39 | .41 |
| Population Polygon (higher is better) | | .76 | .76 | .80 | .79 | .77 | .76 | .78 | .77 |
| Population Circle (higher is better) | .45 | .45 | .45 | .44 | .47 | .45 | .45 | .44 | .48 |
| Ehrenburg (higher is better) | | .21 | .22 | .22 | .18 | .19 | .20 | .23 | .21 |
| Schwartzberg (lower is better) | | 1.55 | 1.56 | 1.48 | 1.53 | 1.56 | 1.57 | 1.57 | 1.54 |
| Length-Width (lower is better) | | 11.28 | 10.27 | 12.72 | 9.88 | 10.22 | 10.46 | 14.17 | 9.24 |
| Perimeter Length (shorter is better) | 10,111 | 10,184 | 10,084 | 9,470 | 9,575 | 10,161 | 10,085 | 10,067 | 9,948 |
| | | | | | | | | | |
| HOUSE DISTRICTS | | | | | | | | | |
| Reock Mean (higher is better) | .44 | .45 | .44 | .43 | .44 | .44 | .42 | .44 | .44 |
| Polsby-Popper Mean (higher is better) | .42 | .42 | .44 | .43 | .42 | .44 | .41 | .41 | .41 |
| Population Polygon (higher is better) | | .76 | .78 | .78 | .76 | .78 | .75 | .77 | .75 |
| Population Circle (higher is better) | .45 | .45 | .44 | .45 | .44 | .44 | .43 | .45 | .45 |
| Ehrenburg (higher is better) | | .14 | .14 | .22 | .15 | .14 | .17 | .18 | .20 |
| Schwartzberg (lower is better) | | 1.53 | 1.50 | 1.50 | 1.52 | 1.51 | 1.56 | 1.55 | 1.54 |
| Length-Width (lower is better) | | 7.33 | 7.82 | 8.89 | 6.98 | 7.05 | 7.57 | 7.92 | 8.43 |
| Perimeter Length (shorter is better) | 13,605 | 13,708 | 13,074 | 13,203 | 12,877 | 13,142 | 13,577 | 13,483 | 13,421 |

| | 2002 Court | 2010 Election | L1101-1 | MACA Example | Draw the Line | Hippert | Martin | Britton | 2012 Court |
|---|---|---|---|---|---|---|---|---|---|
| **Political Subdivision Splits** | | | | | | | | | |
| SENATE DISTRICTS | | | | | | | | | |
| Counties | | | | | | | | | |
|   Number split | 31 | 31 | 32 | 30 | 51 | 29 | 38 | 41 | 39 |
|   Times split | 76 | 76 | 83 | 67 | 127 | 81 | 91 | 97 | 86 |
| Cities, Townships, Unorganized Territories | | | | | | | | | |
|   Number split | 25 | 29 | 32 | 43 | 101 | 28 | 45 | 59 | 44 |
|   Times split | 36 | 40 | 41 | 52 | 123 | 38 | 60 | 70 | 53 |
| Precincts | | | | | | | | | |
|   Number split | 69 | 0 | 124 | 94 | 210 | 100 | 122 | 90 | 98 |
|   Times split | 70 | 0 | 127 | 94 | 217 | 103 | 125 | 91 | 99 |
| Multicounty Cities | | | | | | | | | |
|   Number split | 19 | 21 | 19 | 30 | 12 | 16 | 21 | 13 | 21 |
|   Times split | 19 | 21 | 19 | 31 | 15 | 16 | 25 | 14 | 24 |
| HOUSE DISTRICTS | | | | | | | | | |
| Counties | | | | | | | | | |
|   Number split | 50 | 50 | 44 | 46 | 60 | 40 | 49 | 52 | 54 |
|   Times split | 148 | 148 | 152 | 138 | 209 | 144 | 163 | 168 | 163 |
| Cities, Townships, Unorganized Territories | | | | | | | | | |
|   Number split | 46 | 55 | 42 | 83 | 145 | 40 | 66 | 86 | 88 |
|   Times split | 77 | 87 | 73 | 115 | 206 | 72 | 104 | 127 | 118 |
| Precincts | | | | | | | | | |
|   Number split | 119 | | 202 | 195 | 321 | 196 | 212 | 168 | 242 |
|   Times split | 121 | | 212 | 200 | 345 | 206 | 222 | 171 | 246 |
| Multicounty Cities | | | | | | | | | |
|   Number split | 22 | 24 | 22 | 34 | 14 | 20 | 25 | 15 | 25 |
|   Times split | 24 | 26 | 22 | 39 | 22 | 20 | 31 | 18 | 29 |

| | 2002 Court | 2010 Election | L1101-1 | MACA Example | Draw the Line | Hippert | Martin | Britton | 2012 Court |
|---|---|---|---|---|---|---|---|---|---|
| **Communities of Interest Splits** | | | | | | | | | |
| SENATE DISTRICTS | | | | | | | | | |
| Indian Reservations | | | | | | | | | |
|   Number split | 6 | 7 | 6 | 7 | 9 | 6 | 6 | 8 | 6 |
|   Times split | 13 | 14 | 12 | 13 | 15 | 12 | 11 | 13 | 12 |
| Minneapolis Neighborhoods | | | | | | | | | |
|   Number split | 11 | 13 | 6 | 11 | 21 | 7 | 10 | 22 | 7 |
|   Times split | 16 | 14 | 6 | 11 | 25 | 8 | 12 | 23 | 8 |
| St. Paul Neighborhoods | | | | | | | | | |
|   Number split | 7 | 7 | 12 | 7 | 10 | 5 | 7 | 6 | 10 |
|   Times split | 9 | 9 | 14 | 8 | 13 | 6 | 8 | 7 | 12 |
| Prior Districts (2010 election) | | | | | | | | | |
|   Average core of prior district | 69% | | 71% | 64% | 70% | 72% | 76% | 70% | 81% |
| | | | | | | | | | |
| HOUSE DISTRICTS | | | | | | | | | |
| Indian Reservations | | | | | | | | | |
|   Number split | 7 | 8 | 8 | 8 | 11 | 9 | 6 | 9 | 7 |
|   Times split | 17 | 18 | 18 | 22 | 22 | 19 | 14 | 17 | 14 |
| Minneapolis Neighborhoods | | | | | | | | | |
|   Number split | 24 | 26 | 13 | 24 | 32 | 12 | 18 | 30 | 20 |
|   Times split | 30 | 28 | 13 | 24 | 39 | 13 | 20 | 31 | 21 |
| St. Paul Neighborhoods | | | | | | | | | |
|   Number split | 10 | 11 | 15 | 12 | 13 | 9 | 11 | 12 | 14 |
|   Times split | 17 | 17 | 24 | 16 | 19 | 12 | 15 | 15 | 23 |
| Prior Districts (2010 election) | | | | | | | | | |
|   Average core of prior district | 66% | | 72% | 65% | 65% | 73% | 71% | 71% | 76% |

| | 2002 Court | 2010 Election | L1101-1 | MACA Example | Draw the Line | Hippert | Martin | Britton | 2012 Court |
|---|---|---|---|---|---|---|---|---|---|
| **Incumbent Pairs** | | | | | | | | | |
| SENATE DISTRICTS | | | | | | | | | |
| Incumbents Paired | 18 | 0 | 6 | 26 | 26 | 4 | 13 | 18 | 16 |
| Open Seats | 9 | 0 | 3 | 13 | 13 | 2 | 7 | 9 | 8 |
| Democrat v. Democrat | 2 | 0 | 2 | 4 | 5 | 1 | 0 | 2 | 2 |
| Republican v. Republican | 3 | 0 | 0 | 7 | 6 | 0 | 3 | 5 | 4 |
| Democrat v. Republican | 4 | 0 | 1 | 2 | 2 | 1 | 3 | 2 | 2 |
| HOUSE DISTRICTS | | | | | | | | | |
| Incumbents Paired | 34 | 0 | 20 | 57 | 54 | 16 | 35 | 39 | 30 |
| Open Seats | 17 | 0 | 10 | 29 | 27 | 8 | 18 | 20 | 15 |
| Democrat v. Democrat | 5 | 0 | 5 | 9 | 11 | 3 | 0 | 4 | 6 |
| Republican v. Republican | 5 | 0 | 1 | 13 | 11 | 1 | 11 | 11 | 6 |
| Democrat v. Republican | 7 | 0 | 4 | 6 | 5 | 4 | 6 | 4 | 3 |
| | | | | | | | | | |
| **Political Competitiveness** | | | | | | | | | |
| SENATE DISTRICTS | | | | | | | | | |
| Competitive Districts (not more than 8% difference) | 27 | 24 | 20 | 24 | 27 | 21 | 21 | 25 | 23 |
| Democratic Plurality | 28 | 29 | 27 | 32 | 30 | 27 | 33 | 30 | 29 |
| Republican Plurality | 39 | 38 | 40 | 35 | 37 | 40 | 34 | 37 | 38 |
| Packed Democratic (over 60%) | 2 | 13 | 13 | 11 | 10 | 13 | 11 | 12 | 11 |
| Packed Republican (over 60%) | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| HOUSE DISTRICTS | | | | | | | | | |
| Competitive Districts (not more than 8% difference) | 51 | 47 | 47 | 40 | 51 | 47 | 39 | 42 | 44 |
| Democratic Plurality | 58 | 65 | 56 | 60 | 60 | 56 | 62 | 59 | 59 |
| Republican Plurality | 76 | 69 | 78 | 74 | 74 | 78 | 72 | 75 | 75 |
| Packed Democratic (over 60%) | 5 | 24 | 24 | 24 | 22 | 22 | 23 | 24 | 21 |
| Packed Republican (over 60%) | 0 | 2 | 3 | 1 | 3 | 4 | 1 | 2 | 3 |

Peter S. Wattson