LEGISLATIVE
SERVICES AGENCY

October 21, 2021

## SECOND REDISTRICTING PLAN

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## I. INTRODUCTION.

Pursuant to Iowa Code section 42.3, the Legislative Services Agency, on October 21, 2021, delivered to the Secretary of the Senate and the Chief Clerk of the House of Representatives identical bills embodying a plan of legislative and Congressional districting prepared in accordance with lowa Code section 42.4.

Iowa Code section 42.3 further provides that upon delivery to the General Assembly of the identical bills, copies of the identical bills, maps illustrating the plan, a summary of the standards prescribed by lowa Code section 42.4 for development of the plan, and a statement of the population of each district included in the plan and the relative deviation of each district population from the ideal district population shall be made available to the public at the earliest feasible time. To fulfill these requirements, this memorandum, the identical bills, as well as maps illustrating the plan, will be made available to the lowa General Assembly and the public on the 2021 lowa Redistricting Link on the lowa General Assembly's website: www.legis.iowa.gov/.

## II. GLOSSARY OF TERMS.

To assist in the understanding of this report and the attached statistical data, the following terms were used to describe various aspects of measuring compactness and the population equality between districts:

Absolute deviation: The difference, expressed as a positive number, between the actual population in a district and the ideal population for that district.

Absolute mean deviation: The sum of the absolute deviations of all districts in a plan divided by the number of districts.

Average length-width compactness: The total length-width compactness for all districts in a redistricting plan, divided by the number of districts to be created.

Ideal population: The total population of the state as reported in the federal decennial census divided by the number of districts to be created.

Length-width compactness: The absolute difference in miles between the width (east-west) and the height (north-south) of a district. A lower number indicates better length-width compactness.

Mean deviation percentage variance: The absolute mean deviation of a plan divided by the ideal population for districts in that plan, and expressed as a percentage.

Overall range: The difference between the most populous and least populous districts in a proposed redistricting plan.

Overall range percentage variance: The absolute overall range for a plan, divided by the ideal population for a district, and expressed as a percentage.

Overall range ratio: The ratio calculated by dividing the population of the most populous district by the least populous district.

Perimeter compactness: The distance, in miles, needed to traverse the perimeter of a district in a redistricting plan. A lower number indicates better perimeter compactness.

Total perimeter compactness: The distance, in miles, needed to traverse the perimeters of all districts in a redistricting plan.

## III. STANDARDS FOR REDISTRICTING.

The following is a summary of the standards applicable to congressional and legislative redistricting in lowa as provided by the United States Constitution, the Iowa Constitution, and lowa Code section 42.4. The plan prepared and submitted is in strict adherence to these standards as required by law.

## A. Population Equality

Congressional districts:
lowa Code section $42.4(1)$ provides that each congressional district in the plan shall have a population as nearly equal as practicable to the ideal population and each district shall not have a population which varies by more than 1 percent from the ideal district population. The U.S. Supreme Court has determined that, pursuant to the U.S. Constitution, the "as nearly equal as practicable" standard that is required for congressional districts means that the difference between the ideal population and the actual population of a proposed congressional district should be as close to zero as practicable.

Table I includes population statistics for the congressional districts proposed in Plan I.
Senate and House districts:
Iowa Code section 42.4(1) provides that the mean deviation percentage variance for a proposed state senatorial or state representative redistricting plan shall not exceed 1 percent. In addition, a Senate or House district shall not have a population which exceeds that of any other Senate or House district by more than 5 percent. Finally, the most restrictive requirement in lowa Code section 42.4(1) provides
that the General Assembly has the burden of proof to justify any Senate or House district that deviates from the ideal population for that district by more than 1 percent.

Tables 2 and 3 include population statistics for the Senate and House districts proposed in Plan I.

## B. Respect for Political Subdivisions:

## Congressional districts:

Article III, section 37, of the Constitution of the State of lowa, provides, in part, that, " ... no county shall be divided in forming a congressional district."

Senate and House Districts:
Iowa Code section $42.4(2)$ provides that, to the extent consistent with the population equality standard, the number of counties and cities divided among more than one Senate or House district shall be as small as possible. When there is a choice between dividing local political subdivisions, the more populous subdivisions shall be divided before the less populous, except when a county line divides a city.

Tables 4-7 provide information relating to the number of cities and counties kept whole and divided for the Senate and House districts proposed in Plan I.

## C. Contiguity:

Congressional districts:
Article III, section 37, of the Constitution of the State of lowa, provides, in part, that, "When a congressional district is composed of two or more counties it shall not be entirely separated by a county belonging to another district ..." In addition, lowa Code section 42.4(3) provides that all districts shall be composed of convenient contiguous territory and areas of a district which meet only at the points of adjoining corners are not contiguous.

Senate and House districts:
Article III, section 35, of the Constitution of the State of lowa provides that districts for Senators and Representatives "... shall be of compact and contiguous territory." In addition, lowa Code section $42.4(3)$ provides that all districts shall be composed of convenient contiguous territory and areas of a district which meet only at the points of adjoining corners are not contiguous.

## D. Compactness:

Congressional districts:
Iowa Code section $42.4(4)$ provides that all districts shall be reasonably compact in form, to the extent consistent with the population equality, respect for political subdivisions, and contiguity standards. In general, reasonably compact districts are those which are square, rectangular, or hexagonal in shape, and not irregularly shaped, to the extent permitted by natural or political
boundaries. Methods for determining compactness are provided by law and include a length-width compactness test and a perimeter compactness test.

Table 1 provides statistical information relating to the length-width compactness test and the perimeter compactness test for the congressional districts proposed in Plan I.

Senate and House districts:
Article III, section 35, of the Constitution of the State of lowa provides that districts for Senators and Representatives "... shall be of compact and contiguous territory." In addition, lowa Code section 42.4(4) provides that all districts shall be reasonably compact in form, to the extent consistent with the population equality, respect for political subdivisions, and contiguity standards. In general, reasonably compact districts are those which are square, rectangular, or hexagonal in shape, and not irregularly shaped, to the extent permitted by natural or political boundaries. Methods for determining compactness are provided by law and include a length-width compactness test and a perimeter compactness test.

Tables 2-3 provide statistical information relating to the length-width compactness test and the perimeter compactness test for the Senate and House districts proposed in Plan I.

## E. Prohibited Factors:

Congressional, Senate, and House districts:
Iowa Code section $42.4(5)$ provides that a district shall not be drawn for the purpose of favoring a political party, incumbent legislator or member of Congress, or other person or group, or for the purpose of augmenting or diluting the voting strength of a language or racial minority group. Data that shall not be used in establishing districts include addresses of incumbent legislators or members of Congress, political affiliations of registered voters, previous election results, and any demographic information, other than population head counts, except as required by the Constitution and the laws of the United States.

The Legislative Services Agency did not consider the addresses of incumbents, the political affiliations of registered voters, previous election results, or demographic information other than population headcounts in the development of congressional, senatorial, and representative districts. Following the development of proposed Senate and House districts, the Legislative Services Agency reviewed information indicating which districts in the proposed plan incumbent Senators elected from an evennumbered or odd-numbered district resided for purposes of numbering Senate districts in accordance with lowa law.

## F. District Nesting:

Senate and House districts:
Iowa Code section $42.4(6)$ provides that each state representative district shall be wholly included within a single state senatorial district and, so far as possible, each representative and each senatorial district shall be included within a single congressional district. All other standards take precedence
where a conflict arises between those standards and the requirement, so far as possible, of including a senatorial or representative district within a single congressional district.

Proposed Plan 2 contains 12 Senate and 25 House districts within each congressional district, and two Senate districts, districts 24 and 33 , contained within two congressional districts.

## G. Numbering of Senate Districts and Incumbent Senators:

Article III, section 6, of the Constitution of the State of lowa provides that "as nearly as possible, onehalf of the members of the Senate shall be elected every two years." lowa Code section 42.4(8) provides that each bill embodying a plan shall include provisions for election of senators to the General Assemblies which take office in 2023 and 2025, which shall be in conformity with Article III, section 6, of the Constitution of the State of lowa. The lowa Code section further provides that if an incumbent senator was elected from an even-numbered district and resides in a newly created even-numbered district with no other incumbent senator residing in that district, that incumbent senator can serve until January 2025 without an election in 2022.

Following the development of proposed Senate and House districts, the Legislative Services Agency reviewed information concerning the location of senators in the proposed state senatorial district plan for purposes of numbering Senate districts. The information reviewed indicated only which districts in the proposed plan incumbent senators elected from an even-numbered or odd-numbered district resided. If an incumbent senator resided in a new district without another incumbent senator, that new Senate district was given an odd or even number based upon whether that senator's current district was an odd or even number. If an incumbent senator from a current even-numbered district resided in a new district with or without another incumbent senator, that new Senate district was given an even number.

## IV. IOWA SUPREME COURT ORDER.

On September 14, 2021, the Iowa Supreme Court issued an order entitled "In the Matter of Reapportionment of State Senatorial Representative Districts." The Supreme Court order provided that "Pursuant to its constitutional authority to "cause the state to be apportioned," the supreme court permits the parties identified in lowa Code chapter 42 (2021) to prepare an apportionment in accord with lowa Code chapter 42 (2021) by December 1, 2021." Parties identified in lowa Code chapter 42 to which the Supreme Court order pertains includes the Governor, the General Assembly, the Temporary Redistricting Advisory Commission, and the Legislative Services Agency. Pursuant to the Supreme Court order, all plans of reapportionment of state senatorial and representative districts submitted by the Legislative Services Agency will be in accord with all requirements specified in lowa Code chapter 42 as contained in the 2021 lowa Code.

## V. SENATE RESOLUTION 9.

Iowa law provides that the selection of the second proposed redistricting plan must consider the reasons, if any, provided for the rejection of the first proposed redistricting plan by the General Assembly insofar as they are consistent with lowa Code section 42.4. Following disapproval of Senate File 620 containing the first proposed redistricting plan, the lowa Senate adopted Senate Resolution 9 advising the Legislative Services Agency of the reasons for the Senate's rejection of Senate File 620.

## 1. Iowa Constitution.

## a. Resolution language.

BE IT RESOLVED BY THE SENATE, That Article III, section 34 of the Constitution of the State of lowa states that "Each district so established shall be of compact and contiguous territory. The state shall be apportioned into senatorial and representative districts on the basis of population"; and

## b. Legislative Services Agency response.

The Legislative Services Agency notes that Article III, section 34 of the Constitution of the State of lowa is only applicable to the establishment and apportionment of lowa Senate and House of Representatives districts. All plans of legislative redistricting submitted by the Legislative Services Agency consider and comply with this constitutional provision.

## 2. Compactness.

## a. Resolution language.

BE IT FURTHER RESOLVED, That lowa Code section 42.4(4) requires that districts shall be reasonably compact in form to the extent consistent with the requirements of population, district boundaries coinciding with political subdivisions, and be of convenient contiguous territory; and

## b. Legislative Services Agency response.

The Legislative Services Agency notes that the compactness provision in lowa Code section 42.4 excerpted in the resolution applies to both legislative and congressional redistricting. While compactness is a criteria in establishing proposed congressional and legislative districts, the statute provides, as noted in the resolution, that compactness is a lesser standard in developing proposed districts than population equality, respect for political subdivisions, and having districts composed of convenient contiguous territory. The Legislative Services Agency further notes that the statute specifies that if it is necessary to compare the relative compactness of two or more districts or alternative districting plans, the length-width compactness and perimeter compactness tests shall be used. As such, the tables attached to this report include information on both compactness tests as to each district in the proposed plan as well as for the proposed combined plan for congressional, state Senate, and state House districts.

## 3. Compactness and population equality balance.

## a. Resolution language.

BE IT FURTHER RESOLVED, That the Senate requests a second plan implementing the criteria established in Article III, section 34 of the Constitution of the State of Iowa and Iowa Code section 42.4(4), by submitting a plan that better balances compactness with the legally mandated population deviation.

## b. Legislative Services Agency response.

The Legislative Services Agency agrees that both population equality and compactness are to be considered in developing a proposed redistricting plan for congressional and legislative districts.

However, the resolution infers that both standards should be granted equal weight or that compactness should be granted more importance, relative to population equality, so long as "the legally mandated population deviation" is satisfied. The Legislative Services Agency contends that this inference, if it accurately reflects the intent of the resolution, is not consistent with lowa Code section 42.4, the United States Constitution, or the Iowa Constitution.

Iowa Code section 42.4(1) provides, in general, that the legally mandated population deviation for both congressional and legislative districts are districts with a population as nearly equal as practicable to the ideal district population for such districts. While the lowa Code section also provides a specified allowable deviation for congressional districts, numerous United States Supreme Court decisions have specifically rejected establishing an acceptable percentage deviation for congressional redistricting. Instead, the United States Supreme Court has consistently applied the "as nearly equal as practicable" standard, allowing only minor population deviations from congressional districts of nearly equal population for consistently applied traditional redistricting principles, such as, for example, lowa's whole county constitutional provision. Similarly, the lowa Code section provides several allowable population deviation percentages for legislative districts. However, the Legislative Services Agency, since 1981, has consistently applied the strictest statutory deviation percentage, establishing legislative districts that do not vary from the ideal population of that district in excess of 1 percent. Reliance on this strict requirement is consistent with the decision of the lowa Supreme Court in 1972 which rejected establishing an acceptable deviation percentage for legislative districts but instead required legislative districts to be as nearly equal in population as practicable.

Iowa Code chapter 42 provides that the selection of a proposed redistricting plan be based on all of the criteria specified in lowa Code section 42.4. However, population equality is the most important factor and is specifically given greater weight by lowa Code section 42.4 than compactness as previously noted. While lowa Code Chapter 42 contains no provision mandating a certain population equality standard for the second or third congressional plan different from that prescribed for the first, the requirements of the United States Constitution, as interpreted by the United States Supreme Court, mandate that a second proposed congressional redistricting plan must have equal or lower population deviations than the first plan submitted. However, consideration of population equality alone is not required based on the United States Constitution and is also not consistent with the requirements of lowa Code chapter 42 or lowa law in general. The second congressional redistricting plan selected must be the one that best meets all the requirements of lowa law, including the standard of compactness, while providing for equal or better population equality amongst districts. Since 1981, the Legislative Services Agency has followed this standard when submitting a second, and a third, plan of congressional redistricting. For 2021, the Legislative Services Agency followed this constitutionally directed mandate by submitting a second plan of congressional districting to the General Assembly of equal or better population equality amongst districts than the first plan submitted.

## VI. ATTACHMENTS.

Attached to this Report are the following:

## MAPS

Map 1 - Map of proposed congressional districts.
Map 2 - Map of proposed Senate districts.
Map 3 - Map of proposed House districts.
Map 4 - Map of Ames Area
Map 5 - Map of Cedar Rapids Area
Map 6 - Map of Council Bluffs Area
Map 7 - Map of Davenport-Bettendorf Area
Map 8 - Map of Dubuque Area
Map 9 - Map of Iowa City Area
Map 10 - Map of Sioux City Area
Map 11 - Map of Waterloo-Cedar Falls Area
Map 12 - Map of Polk County Area
Map 13 - Map of Ankeny Area
Map 14 - Map of Des Moines Area

## TABLES

Table 1 - Populations, population variance, and compactness statistics for each congressional district.

Table 2 - Populations, population variance, and compactness statistics for each Senate district.
Table 3 - Populations, population variance, and compactness statistics for each House district.
Table 4 - Counties kept whole in Senate and House districts.
Table 5 - Dividable precincted cities over 20,000 persons located within a single county kept whole in Senate and House districts.

Table 6 - Number of Senate and House districts contained wholly or partially within each county.
Table 7 - Number of Senate and House districts contained wholly or partially within each dividable precincted city over 20,000 persons.

Doc ID: 1,230,998

MAPS

## SECOND REDISTRICTING PLAN

## Legislative Services Agency

October 21, 2021

Proposed October 21, 2021
Prepared by the lowa Legislative Services Agency
PROPOSED PLAN 2: IOWA HOUSE DISTRICTS
To Be Effective Beginning with the Elections in 2022 for the 90th General Assembly

Proposed October 21, 2021
Prepared by the lowa Legislative Services Agency

## PROPOSED PLAN 2: AMES AREA

To Be Effective Beginning with the Elections in 2022 for the 90th General Assembly
Proposed October 21, 2021 - Prepared by the lowa Legislative Services Agency
City Boundary
House District
$\square$ Senate District (color-fill areas)


## PROPOSED PLAN 2: CEDAR RAPIDS AREA

To Be Effective Beginning with the Elections in 2022 for the 90th General Assembly
Proposed October 21, 2021 - Prepared by the lowa Legislative Services Agency

City Boundary House District Senate District (color-fill areas)


## PROPOSED PLAN 2: COUNCIL BLUFFS

To Be Effective Beginning with the Elections in 2022 for the 90th General Assembly Proposed October 21, 2021 - Prepared by the lowa Legislative Services Agency

City Boundary
House District Senate District




## PROPOSED PLAN 2: IOWA CITY AREA

To Be Effective Beginning with the Elections in 2022 for the 90th General Assembly Proposed October 21, 2021 - Prepared by the lowa Legislative Services Agency

City Boundary
House District Senate District (color-fill areas)


## PROPOSED PLAN 2: SIOUX CITY AREA

To Be Effective Beginning with the Elections in 2022 for the 90th General Assembly
Proposed October 21, 2021 - Prepared by the lowa Legislative Services Agency




## PROPOSED PLAN 2: ANKENY AREA

To Be Effective Beginning with the Elections in 2022 for the 90th General Assembly
Proposed October 21, 2021 - Prepared by the lowa Legislative Services Agency

City Boundary House District Senate District (color-fill areas)

To Be Effective Beginning with the Elections in 2022 for the 90th General Assembly
Proposed October 21, 2021 - Prepared by the lowa Legislative Services Agency


## TABLES

## SECOND REDISTRICTING PLAN

## Legislative Services Agency

October 21, 2021

TABLE 1

## CONGRESSIONAL PLAN SUMMARY

| DISTRICT <br> NUMBER | TOTAL <br> POPULATION | \% DEVIATION <br> FROM IDEAL <br> DISTRICT POP. | DEVIATION <br> FROM IDEAL <br> DISTRICT POP. | PERIMETER <br> DISTANCE IN <br> MILES | LENGTH-WIDTH <br> COMPACTNESS <br> IN MILES |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 797,584 | $-0.001 \%$ | -8 | 696.48 | 51.25 |
| 2 | 797,589 | $-0.00037 \%$ | -3 | 624.17 | 17.01 |
| 3 | 797,551 | $-0.00514 \%$ | -41 | 619.72 | 53.55 |
| 4 | 797,645 | $0.00664 \%$ | 53 | 991.50 | 2.30 |

Ideal Congressional District Population: 797,592

Lowest Population: District 3 Highest Population: District 4

Absolute Mean Deviation: 26.25 persons

Mean Deviation Percentage Variance: 0.00329\%

Total Perimeter Score: 2,931.87 miles

Average Length-Width Compactness: 31.03 miles

## Overall Range

|  | LOWEST DISTRICT POP. | HIGHEST DISTRICT POP. | OVERALL |
| :---: | :---: | :---: | :---: |
| ABSOLUTE | -41 | 53 | 94 |
| \% VARIANCE | $-0.0051 \%$ | $0.0066 \%$ | $0.012 \%$ |
| RATIO | 1.0001178 |  |  |

TABLE 2
SENATE PLAN SUMMARY

| $\begin{aligned} & \text { DISTRICT } \\ & \text { NUMBER } \end{aligned}$ | TOTAL POPULATION | \% DEVIATION FROM IDEAL DISTRICT POP. | DEVIATION FROM IDEAL DISTRICT POP | PERIMETER DISTANCE IN MILES | LENGTH-WIDTH COMPACTNESS IN MILES |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 63,991 | 0.29\% | 184 | 56.53 | 14.22 |
| 2 | 63,661 | -0.23\% | -146 | 252.46 | 19.27 |
| 3 | 63,782 | -0.04\% | -25 | 237.83 | 16.86 |
| 4 | 63,818 | 0.02\% | 11 | 245.44 | 25.96 |
| 5 | 63,895 | 0.14\% | 88 | 284.49 | 54.52 |
| 6 | 63,807 | 0.00\% | 0 | 277.28 | 21.6 |
| 7 | 63,700 | -0.17\% | -107 | 288.1 | 25.37 |
| 8 | 63,575 | -0.36\% | -232 | 327.51 | 37.44 |
| 9 | 63,507 | -0.47\% | -300 | 271.65 | 7.13 |
| 10 | 63,666 | -0.22\% | -141 | 44.97 | 1.21 |
| 11 | 63,559 | -0.39\% | -248 | 158.54 | 17.64 |
| 12 | 63,604 | -0.32\% | -203 | 337.82 | 12.74 |
| 13 | 63,740 | -0.11\% | -67 | 187.43 | 8.32 |
| 14 | 63,822 | 0.02\% | 15 | 63.61 | 0.78 |
| 15 | 63,743 | -0.10\% | -64 | 35.16 | 3.8 |
| 16 | 64,223 | 0.65\% | 416 | 26.92 | 1.09 |
| 17 | 63,990 | 0.29\% | 183 | 25.2 | 2.02 |
| 18 | 63,978 | 0.27\% | 171 | 29.76 | 1.55 |
| 19 | 63,733 | -0.12\% | -74 | 227.42 | 11.73 |
| 20 | 64,031 | 0.35\% | 224 | 78.36 | 0.39 |
| 21 | 63,965 | 0.25\% | 158 | 48.86 | 2.32 |
| 22 | 63,809 | 0.00\% | 2 | 73.87 | 1.08 |
| 23 | 63,308 | -0.78\% | -499 | 241.72 | 10.9 |
| 24 | 63,865 | 0.09\% | 58 | 244.56 | 11.36 |
| 25 | 63,738 | -0.11\% | -69 | 58.1 | 3.33 |
| 26 | 63,918 | 0.17\% | 111 | 187.34 | 24 |
| 27 | 63,643 | -0.26\% | -164 | 305.2 | 16.42 |
| 28 | 64,060 | 0.40\% | 253 | 304.21 | 6.01 |
| 29 | 64,103 | 0.46\% | 296 | 188.5 | 2.61 |
| 30 | 63,993 | 0.29\% | 186 | 178.89 | 6.82 |


| DISTRICT <br> NUMBER | TOTAL <br> POPULATION | \% DEVIATION <br> FROM IDEAL <br> DISTRICT POP. | DEVIATION <br> FROM IDEAL <br> DISTRICT POP. | PERIMETER <br> DISTANCE IN <br> MILES | LENGTH-WIDTH <br> COMPACTNESS <br> IN MILES |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 31 | 64,306 | $0.78 \%$ | 499 | 47.08 | 0.89 |
| 32 | 63,793 | $-0.02 \%$ | -14 | 299.48 | 18.84 |
| 33 | 63,743 | $-0.10 \%$ | -64 | 289.99 | 11.77 |
| 34 | 63,469 | $-0.53 \%$ | -338 | 251.92 | 25.94 |
| 35 | 63,807 | $0.00 \%$ | 0 | 147.96 | 2.54 |
| 36 | 64,299 | $0.77 \%$ | 492 | 72.22 | 7.09 |
| 37 | 63,393 | $-0.65 \%$ | -414 | 48.43 | 0.27 |
| 38 | 63,383 | $-0.66 \%$ | -424 | 146.09 | 5.02 |
| 39 | 63,936 | $0.20 \%$ | 129 | 73.37 | 1.33 |
| 40 | 64,145 | $0.53 \%$ | 338 | 63.73 | 3.41 |
| 41 | 63,802 | $-0.01 \%$ | -5 | 194.78 | 8.24 |
| 42 | 63,363 | $-0.70 \%$ | -444 | 287.6 | 17.8 |
| 43 | 64,185 | $0.59 \%$ | 378 | 77.23 | 0.66 |
| 44 | 63,655 | $-0.24 \%$ | -152 | 259.62 | 3.41 |
| 45 | 63,987 | $0.28 \%$ | 180 | 40.42 | 0.55 |
| 46 | 63,909 | $0.16 \%$ | 102 | 252.22 | 0.04 |
| 47 | 63,863 | $0.09 \%$ | 56 | 64.79 | 5.43 |
| 48 | 63,720 | $-0.14 \%$ | -87 | 254.54 | 10.13 |
| 49 | 63,449 | $-0.56 \%$ | -358 | 47.02 | 4.69 |
| 50 | 63,935 | $0.20 \%$ | 128 | 148.56 | 2.52 |

Ideal Senate District Population: 63,807
Lowest Population: District 23 Highest Population: District 31
Absolute Mean Deviation: 185.94 persons
Mean Deviation Percentage Variance: 0.29141\%
Total Perimeter Score: 8,354.78 miles
Average Length-Width Compactness: 9.98 miles

Overall Range

|  | LOWEST DISTRICT POP. | HIGHEST DISTRICT POP. | OVERALL |
| :---: | :---: | :---: | :---: |
| ABSOLUTE | -499 | 499 | 998 |
| \% VARIANCE | $-0.78 \%$ | $0.78 \%$ | $1.56 \%$ |
| RATIO | 1.0157642 |  |  |

TABLE 3
HOUSE PLAN SUMMARY

| DISTRICT <br> NUMBER | TOTAL POPULATION | \% DEVIATION FROM IDEAL DISTRICT POP. | DEVIATION FROM IDEAL DISTRICT POP. | PERIMETER DISTANCE IN MILES | LENGTH-WIDTH COMPACTNESS IN MILES |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 32,022 | 0.37\% | 118 | 22.38 | 0.65 |
| 2 | 31,969 | 0.20\% | 65 | 53.97 | 12.27 |
| 3 | 31,928 | 0.08\% | 24 | 184.52 | 3.59 |
| 4 | 31,733 | -0.54\% | -171 | 155.48 | 5.97 |
| 5 | 31,904 | 0.00\% | 0 | 201.61 | 28.85 |
| 6 | 31,878 | -0.08\% | -26 | 156.4 | 19.91 |
| 7 | 31,944 | 0.13\% | 40 | 255.27 | 23.67 |
| 8 | 31,874 | -0.09\% | -30 | 101.37 | 9.89 |
| 9 | 31,980 | 0.24\% | 76 | 239.12 | 30.63 |
| 10 | 31,915 | 0.03\% | 11 | 227.64 | 18.73 |
| 11 | 31,989 | 0.27\% | 85 | 205.84 | 9.77 |
| 12 | 31,818 | -0.27\% | -86 | 201.72 | 32.76 |
| 13 | 31,807 | -0.30\% | -97 | 281.71 | 25.37 |
| 14 | 31,893 | -0.03\% | -11 | 42.47 | 4.53 |
| 15 | 31,749 | -0.49\% | -155 | 198.55 | 15.5 |
| 16 | 31,826 | -0.24\% | -78 | 223.92 | 25.52 |
| 17 | 31,748 | -0.49\% | -156 | 222.9 | 24.63 |
| 18 | 31,759 | -0.45\% | -145 | 211.41 | 28.1 |
| 19 | 31,784 | -0.38\% | -120 | 45.11 | 0.56 |
| 20 | 31,882 | -0.07\% | -22 | 21.58 | 0.68 |
| 21 | 31,787 | -0.37\% | -117 | 146.05 | 14.69 |
| 22 | 31,772 | -0.41\% | -132 | 131.46 | 0.15 |
| 23 | 31,838 | -0.21\% | -66 | 208.49 | 7.2 |
| 24 | 31,766 | -0.43\% | -138 | 188.67 | 13.53 |
| 25 | 31,972 | 0.21\% | 68 | 77.17 | 0.1 |
| 26 | 31,768 | -0.43\% | -136 | 216.2 | 8.34 |
| 27 | 31,685 | -0.69\% | -219 | 39.31 | 1.29 |
| 28 | 32,137 | 0.73\% | 233 | 79.51 | 0.78 |
| 29 | 31,865 | -0.12\% | -39 | 24.63 | 0.69 |
| 30 | 31,878 | -0.08\% | -26 | 23.52 | 1.98 |


| DISTRICT <br> NUMBER | TOTAL POPULATION | \% DEVIATION FROM IDEAL DISTRICT POP. | DEVIATION FROM IDEAL DISTRICT POP. | PERIMETER DISTANCE IN MILES | LENGTH-WIDTH COMPACTNESS IN MILES |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 31 | 32,047 | 0.45\% | 143 | 27.49 | 0.35 |
| 32 | 32,176 | 0.85\% | 272 | 21.97 | 2.61 |
| 33 | 32,104 | 0.63\% | 200 | 19.06 | 0.61 |
| 34 | 31,886 | -0.06\% | -18 | 12.84 | 0.08 |
| 35 | 32,015 | 0.35\% | 111 | 16.03 | 0.53 |
| 36 | 31,963 | 0.18\% | 59 | 16.77 | 2.11 |
| 37 | 31,835 | -0.22\% | -69 | 213.3 | 0.64 |
| 38 | 31,898 | -0.02\% | -6 | 134.02 | 6.16 |
| 39 | 31,995 | 0.29\% | 91 | 56.82 | 2.49 |
| 40 | 32,036 | 0.41\% | 132 | 56.77 | 3.02 |
| 41 | 32,054 | 0.47\% | 150 | 30.02 | 2.18 |
| 42 | 31,911 | 0.02\% | 7 | 40.84 | 0.28 |
| 43 | 32,052 | 0.46\% | 148 | 65.03 | 1.07 |
| 44 | 31,757 | -0.46\% | -147 | 29.95 | 5.99 |
| 45 | 31,630 | -0.86\% | -274 | 201.94 | 1.12 |
| 46 | 31,678 | -0.71\% | -226 | 69.36 | 2.06 |
| 47 | 31,831 | -0.23\% | -73 | 185.43 | 6.74 |
| 48 | 32,034 | 0.41\% | 130 | 118.97 | 6.16 |
| 49 | 31,961 | 0.18\% | 57 | 51.65 | 3.3 |
| 50 | 31,777 | -0.40\% | -127 | 21.52 | 0.68 |
| 51 | 31,906 | 0.01\% | 2 | 193.77 | 23.98 |
| 52 | 32,012 | 0.34\% | 108 | 54.4 | 2.33 |
| 53 | 31,781 | -0.39\% | -123 | 157.21 | 30.13 |
| 54 | 31,862 | -0.13\% | -42 | 183.98 | 25.43 |
| 55 | 32,027 | 0.39\% | 123 | 208.69 | 5.92 |
| 56 | 32,033 | 0.40\% | 129 | 192.27 | 0.2 |
| 57 | 31,918 | 0.04\% | 14 | 120.56 | 11.83 |
| 58 | 32,185 | 0.88\% | 281 | 176.31 | 8.43 |
| 59 | 32,090 | 0.58\% | 186 | 86.36 | 5.98 |
| 60 | 31,903 | 0.00\% | -1 | 215.25 | 6.86 |
| 61 | 32,126 | 0.70\% | 222 | 34.77 | 2.05 |


| DISTRICT <br> NUMBER | TOTAL POPULATION | \% DEVIATION FROM IDEAL DISTRICT POP. | $\begin{gathered} \text { DEVIATION } \\ \text { FROM IDEAL } \\ \text { DISTRICT POP. } \end{gathered}$ | PERIMETER DISTANCE IN MILES | LENGTH-WIDTH COMPACTNESS IN MILES |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 62 | 32,180 | 0.87\% | 276 | 35.53 | 2.93 |
| 63 | 31,873 | -0.10\% | -31 | 166.52 | 12.74 |
| 64 | 31,920 | 0.05\% | 16 | 203.74 | 28.94 |
| 65 | 31,763 | -0.44\% | -141 | 166.03 | 7.49 |
| 66 | 31,980 | 0.24\% | 76 | 189.72 | 32.12 |
| 67 | 31,722 | -0.57\% | -182 | 165.72 | 31.22 |
| 68 | 31,747 | -0.49\% | -157 | 180.49 | 0.2 |
| 69 | 32,007 | 0.32\% | 103 | 68.92 | 5.94 |
| 70 | 31,800 | -0.33\% | -104 | 136.64 | 6.36 |
| 71 | 32,131 | 0.71\% | 227 | 35.36 | 3.08 |
| 72 | 32,168 | 0.83\% | 264 | 66.71 | 4.1 |
| 73 | 31,680 | -0.70\% | -224 | 49.27 | 1.3 |
| 74 | 31,713 | -0.60\% | -191 | 22.57 | 0.97 |
| 75 | 31,757 | -0.46\% | -147 | 25.48 | 0.68 |
| 76 | 31,626 | -0.87\% | -278 | 135.22 | 0.99 |
| 77 | 31,963 | 0.18\% | 59 | 50.55 | 1.83 |
| 78 | 31,973 | 0.22\% | 69 | 36.31 | 2.48 |
| 79 | 32,066 | 0.51\% | 162 | 27.84 | 1.81 |
| 80 | 32,079 | 0.55\% | 175 | 42.74 | 3.59 |
| 81 | 32,052 | 0.46\% | 148 | 35.36 | 1.39 |
| 82 | 31,750 | -0.48\% | -154 | 174.6 | 1.7 |
| 83 | 31,736 | -0.53\% | -168 | 180.61 | 5.88 |
| 84 | 31,627 | -0.87\% | -277 | 180.7 | 5.92 |
| 85 | 32,115 | 0.66\% | 211 | 78.63 | 1.58 |
| 86 | 32,070 | 0.52\% | 166 | 33.93 | 0.53 |
| 87 | 31,811 | -0.29\% | -93 | 145.5 | 3.38 |
| 88 | 31,844 | -0.19\% | -60 | 199.06 | 18.08 |
| 89 | 32,071 | 0.52\% | 167 | 29.21 | 1.46 |
| 90 | 31,916 | 0.04\% | 12 | 24.91 | 1.35 |
| 91 | 32,036 | 0.41\% | 132 | 152.64 | 17.95 |
| 92 | 31,873 | -0.10\% | -31 | 159.86 | 6.01 |


| DISTRICT <br> NUMBER | TOTAL <br> POPULATION | \% DEVIATION <br> FROM IDEAL <br> DISTRICT POP. | DEVIATION <br> FROM IDEAL <br> DISTRICT POP. | PERIMETER <br> DISTANCE IN <br> MILES | LENGTH-WIDTH <br> COMPACTNESS <br> IN MILES |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 93 | 31,949 | $0.14 \%$ | 45 | 32.47 | 2.07 |
| 94 | 31,914 | $0.03 \%$ | 10 | 54.58 | 0.38 |
| 95 | 31,942 | $0.12 \%$ | 38 | 230.04 | 13.82 |
| 96 | 31,778 | $-0.39 \%$ | -126 | 67.85 | 1.44 |
| 97 | 31,753 | $-0.47 \%$ | -151 | 19.84 | 0.21 |
| 98 | 31,696 | $-0.65 \%$ | -208 | 39.39 | 4.58 |
| 99 | 32,064 | $0.50 \%$ | 160 | 91.19 | 3.28 |
| 100 | 31,871 | $-0.10 \%$ | -33 | 105.96 | 5.92 |

Ideal House District Population: 31,904

Lowest Population: District 76 Highest Population: District 58

Absolute Mean Deviation: 116.33 persons

Mean Deviation Percentage Variance: 0.36462\%

Total Perimeter Score: 11,243.02 miles

Average Length-Width Compactness: 7.87 miles

Overall Range

|  | LOWEST DISTRICT POP. | HIGHEST DISTRICT POP. | OVERALL |
| :---: | :---: | :---: | :---: |
| ABSOLUTE | -278 | 281 | 559 |
| \% VARIANCE | $-0.87 \%$ | $0.88 \%$ | $1.75 \%$ |
| RATIO | 1.0176753 |  |  |

TABLE 4
COUNTIES KEPT WHOLE IN A SENATE DISTRICT
(Total: 74)

| Adair | Davis | Jefferson | Pocahontas |
| :--- | :--- | :--- | :--- |
| Adams | Decatur | Jones | Poweshiek |
| Allamakee | Delaware | Keokuk | Ringgold |
| Audubon | Dickinson | Kossuth | Sac |
| Boone | Emmet | Lee | Shelby |
| Bremer | Franklin | Louisa | Sioux |
| Buchanan | Fremont | Lucas | Taylor |
| Buena Vista | Greene | Lyon | Van Buren |
| Butler | Grundy | Madison | Wapello |
| Calhoun | Guthrie | Marshall | Warren |
| Carroll | Hamilton | Mills | Washington |
| Cass | Hancock | Mitchell | Wayne |
| Cedar | Hardin | Monona | Webster |
| Cerro Gordo | Harrison | Monroe | Winnebago |
| Chickasaw | Howard | Montgomery | Winneshiek |
| Clarke | Humboldt | O'Brien | Worth |
| Clayton | Ida | Osceola | Wright |
| Clinton | Iowa | Page |  |
| Crawford | Jasper | Palo Alto |  |

## COUNTIES KEPT WHOLE IN A HOUSE DISTRICT

(Total: 56)

| Adair | Delaware | Iowa | Pocahontas |
| :--- | :--- | :--- | :--- |
| Adams | Dickinson | Jones | Poweshiek |
| Allamakee | Emmet | Keokuk | Ringgold |
| Audubon | Franklin | Louisa | Sac |
| Boone | Fremont | Lucas | Taylor |
| Butler | Greene | Lyon | Van Buren |
| Calhoun | Grundy | Madison | Washington |
| Carroll | Guthrie | Mills | Wayne |
| Cass | Hamilton | Mitchell | Winnebago |
| Cedar | Hancock | Monona | Winneshiek |
| Chickasaw | Hardin | Monroe | Worth |
| Clayton | Harrison | Montgomery |  |
| Crawford | Howard | O'Brien |  |
| Davis | Humboldt | Osceola |  |
| Decatur | Ida | Palo Alto |  |

TABLE 5
DIVIDABLE PRECINCTED CITIES ABOVE 20,000 PERSONS LOCATED WITHIN A SINGLE COUNTY AND KEPT WHOLE IN SENATE AND HOUSE DISTRICTS (21 cities)

## CITIES KEPT WHOLE IN SENATE DISTRICTS

| Bettendorf | Johnston |
| :---: | :---: |
| Burlington | Marion |
| Cedar Falls | Marshalltown |
| Clinton | Mason City |
| Coralville | Muscatine |
| Dubuque | Ottumwa |
| Fort Dodge | Waukee |

## CITIES KEPT WHOLE IN HOUSE DISTRICTS

Burlington

Clinton
Coralville
Fort Dodge
Johnston
Marshalltown
Mason City
Muscatine
Ottumwa
Waukee

TABLE 6

## LEGISLATIVE DISTRICTS PER COUNTY

|  | $\mathbf{4 / 1 / 2 0 2 0}$ | Senate | Senate | House | House |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Census <br> Population | Districts <br> Required | Districts in | Plan 2 | Dequired |
| Ristricts in |  |  |  |  |  |
| County | 7,496 | 1 | 1 | 1 | Plan 2 |
| Adair | 3,704 | 1 | 1 | 1 | 1 |
| Adams | 14,061 | 1 | 1 | 1 | 1 |
| Allamakee | 12,317 | 1 | 2 | 1 | 2 |
| Appanoose | 5,674 | 1 | 1 | 1 | 1 |
| Audubon | 25,575 | 1 | 2 | 1 | 2 |
| Benton | 131,144 | 3 | 4 | 5 | 6 |
| Black Hawk | 26,715 | 1 | 1 | 1 | 1 |
| Boone | 24,988 | 1 | 1 | 1 | 2 |
| Bremer | 20,565 | 1 | 1 | 1 | 2 |
| Buchanan | 20,823 | 1 | 1 | 1 | 2 |
| Buena Vista | 14,334 | 1 | 1 | 1 | 1 |
| Butler | 9,927 | 1 | 1 | 1 | 1 |
| Calhoun | 20,760 | 1 | 1 | 1 | 1 |
| Carroll | 13,127 | 1 | 1 | 1 | 1 |
| Cass | 18,505 | 1 | 1 | 1 | 1 |
| Cedar | 43,127 | 1 | 1 | 2 | 2 |
| Cerro Gordo | 11,658 | 1 | 2 | 1 | 2 |
| Cherokee | 12,012 | 1 | 1 | 1 | 1 |
| Chickasaw | 9,748 | 1 | 1 | 1 | 2 |
| Clarke | 16,384 | 1 | 2 | 1 | 2 |
| Clay | 17,043 | 1 | 1 | 1 | 1 |
| Clayton | 46,460 | 1 | 1 | 2 | 2 |
| Clinton | 16,525 | 1 | 1 | 1 | 1 |
| Crawford | 99,678 | 2 | 5 | 4 | 6 |
| Dallas | 9,110 | 1 | 1 | 1 | 1 |
| Davis | 7,645 | 1 | 1 | 1 | 1 |
| Decatur | 17,488 | 1 | 1 | 1 | 1 |
| Delaware | 38,910 | 1 | 2 | 2 | 2 |
| Des Moines | 17,703 | 1 | 1 | 1 | 1 |
| Dickinson | 99,266 | 2 | 4 | 4 | 5 |
| Dubuque | 9,388 | 1 | 1 | 1 | 1 |
| Emmet | 19,509 | 1 | 2 | 1 | 2 |
| Fayette | 15,627 | 1 | 2 | 1 | 2 |
| Floyd | 10,019 | 1 | 1 | 1 | 1 |
| Franklin | 6,605 | 1 | 1 | 1 | 1 |
| Fremont | 8,771 | 1 | 1 | 1 | 1 |
| Greene | 12,329 | 1 | 1 | 1 | 1 |
| Grundy |  |  |  |  |  |
|  | 1 | 1 | 1 | 1 | 1 |
|  | 1 | 1 | 1 | 1 | 1 |
|  | 1 | 1 | 1 | 1 | 1 |
|  | 1 | 1 | 1 | 1 | 1 |
|  | 1 | 1 | 1 | 1 | 1 |


|  | 4/1/2020 | Senate | Senate | House | House |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Census | Districts | Districts in | Districts | Districts in |
| County | Population | Required | Plan 2 | Required | Plan 2 |
| Guthrie | 10,623 | 1 | 1 | 1 | 1 |
| Hamilton | 15,039 | 1 | 1 | 1 | 1 |
| Hancock | 10,795 | 1 | 1 | 1 | 1 |
| Hardin | 16,878 | 1 | 1 | 1 | 1 |
| Harrison | 14,582 | 1 | 1 | 1 | 1 |
| Henry | 20,482 | 1 | 2 | 1 | 2 |
| Howard | 9,469 | 1 | 1 | 1 | 1 |
| Humboldt | 9,597 | 1 | 1 | 1 | 1 |
| Ida | 7,005 | 1 | 1 | 1 | 1 |
| Iowa | 16,662 | 1 | 1 | 1 | 1 |
| Jackson | 19,485 | 1 | 2 | 1 | 2 |
| Jasper | 37,813 | 1 | 1 | 2 | 2 |
| Jefferson | 15,663 | 1 | 1 | 1 | 2 |
| Johnson | 152,854 | 3 | 3 | 5 | 6 |
| Jones | 20,646 | 1 | 1 | 1 | 1 |
| Keokuk | 10,033 | 1 | 1 | 1 | 1 |
| Kossuth | 14,828 | 1 | 1 | 1 | 2 |
| Lee | 33,555 | 1 | 1 | 2 | 2 |
| Linn | 230,299 | 4 | 4 | 8 | 8 |
| Louisa | 10,837 | 1 | 1 | 1 | 1 |
| Lucas | 8,634 | 1 | 1 | 1 | 1 |
| Lyon | 11,934 | 1 | 1 | 1 | 1 |
| Madison | 16,548 | 1 | 1 | 1 | 1 |
| Mahaska | 22,190 | 1 | 2 | 1 | 2 |
| Marion | 33,414 | 1 | 2 | 2 | 2 |
| Marshall | 40,105 | 1 | 1 | 2 | 2 |
| Mills | 14,484 | 1 | 1 | 1 | 1 |
| Mitchell | 10,565 | 1 | 1 | 1 | 1 |
| Monona | 8,751 | 1 | 1 | 1 | 1 |
| Monroe | 7,577 | 1 | 1 | 1 | 1 |
| Montgomery | 10,330 | 1 | 1 | 1 | 1 |
| Muscatine | 43,235 | 1 | 2 | 2 | 3 |
| O'Brien | 14,182 | 1 | 1 | 1 | 1 |
| Osceola | 6,192 | 1 | 1 | 1 | 1 |
| Page | 15,211 | 1 | 1 | 1 | 2 |
| Palo Alto | 8,996 | 1 | 1 | 1 | 1 |
| Plymouth | 25,698 | 1 | 2 | 1 | 2 |
| Pocahontas | 7,078 | 1 | 1 | 1 | 1 |
| Polk | 492,401 | 8 | 8 | 16 | 16 |
| Pottawattamie | 93,667 | 2 | 3 | 3 | 5 |
| Poweshiek | 18,662 | 1 | 1 | 1 | 1 |
| Ringgold | 4,663 | 1 | 1 | 1 | 1 |


|  | 4/1/2020 | Senate | Senate | House | House |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Census <br> Districts | Districts in | Districts | Districts in |  |
| County | 9,814 | 1 | 1 | 1 | 1 |
| Sac | 174,669 | 3 | 4 | 6 | 7 |
| Scott | 11,746 | 1 | 1 | 1 | 2 |
| Shelby | 35,872 | 1 | 1 | 2 | 2 |
| Sioux | 98,537 | 2 | 4 | 4 | 5 |
| Story | 17,135 | 1 | 2 | 1 | 2 |
| Tama | 5,896 | 1 | 1 | 1 | 1 |
| Taylor | 12,138 | 1 | 2 | 1 | 2 |
| Union | 7,203 | 1 | 1 | 1 | 1 |
| Van Buren | 35,437 | 1 | 1 | 2 | 2 |
| Wapello | 52,403 | 1 | 1 | 2 | 2 |
| Warren | 22,565 | 1 | 1 | 1 | 1 |
| Washington | 6,497 | 1 | 1 | 1 | 1 |
| Wayne | 36,999 | 1 | 1 | 2 | 2 |
| Webster | 10,679 | 1 | 1 | 1 | 1 |
| Winnebago | 20,070 | 1 | 1 | 1 | 1 |
| Winneshiek | 105,941 | 2 | 2 | 4 | 4 |
| Woodbury | 7,443 | 1 | 1 | 1 | 1 |
| Worth | 12,943 | 1 | 1 | 1 | 2 |
| Wright |  |  |  |  | 2 |

TABLE 7

## LEGISLATIVE DISTRICTS PER DIVIDABLE PRECINCTED CITY ABOVE 20,000 PERSONS

|  | $\mathbf{4 / 1 / 2 0 2 0}$ | Senate | Senate | House | House |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Census | Districts | Districts in | Districts | Districts in |
| City | Population | Required | Plan 2 | Required | Plan 2 |
|  |  |  |  |  |  |
| Ames | 66,427 | 2 | 2 | 3 | 3 |
| Ankeny | 67,887 | 2 | 2 | 3 | 3 |
| Bettendorf/Riverdale/Panorama Park | 39,620 | 1 | 1 | 2 | 2 |
| Burlington | 23,982 | 1 | 1 | 1 | 1 |
| Cedar Falls | 40,713 | 1 | 1 | 2 | 2 |
| Cedar Rapids | 137,710 | 3 | 3 | 5 | 5 |
| Clinton | 24,469 | 1 | 1 | 1 | 1 |
| Coralville | 22,318 | 1 | 1 | 1 | 1 |
| Council Bluffs/Carter Lake | 66,590 | 2 | 2 | 3 | 3 |
| Davenport | 101,724 | 2 | 3 | 4 | 4 |
| Des Moines (Polk Co) | 213,921 | 4 | 4 | 7 | 8 |
| Dubuque | 59,667 | 1 | 1 | 2 | 2 |
| Fort Dodge | 24,871 | 1 | 1 | 1 | 1 |
| Iowa City/University Heights | 76,056 | 2 | 2 | 3 | 4 |
| Johnston | 24,064 | 1 | 1 | 1 | 1 |
| Marion | 41,535 | 1 | 1 | 2 | 2 |
| Marshalltown | 27,591 | 1 | 1 | 1 | 1 |
| Mason City | 27,338 | 1 | 1 | 1 | 1 |
| Muscatine | 23,797 | 1 | 1 | 1 | 1 |
| Ottumwa | 25,529 | 1 | 1 | 1 | 1 |
| Sioux City (Woodbury Co) | 85,791 | 2 | 2 | 3 | 3 |
| Urbandale (Polk Co) | 33,804 | 1 | 1 | 2 | 2 |
| Urbandale (Polk and Dallas Co) | 45,580 | 1 | 2 | 2 | 3 |
| Waterloo | 67,314 | 2 | 2 | 3 | 3 |
| Waukee | 23,940 | 1 | 1 | 1 | 1 |
| West Des Moines (Polk Co) | 45,582 | 1 | 1 | 2 | 2 |
| West Des Moines (Polk and Dallas Co) | 68,494 | 2 | 2 | 3 | 3 |
|  |  |  |  |  |  |

