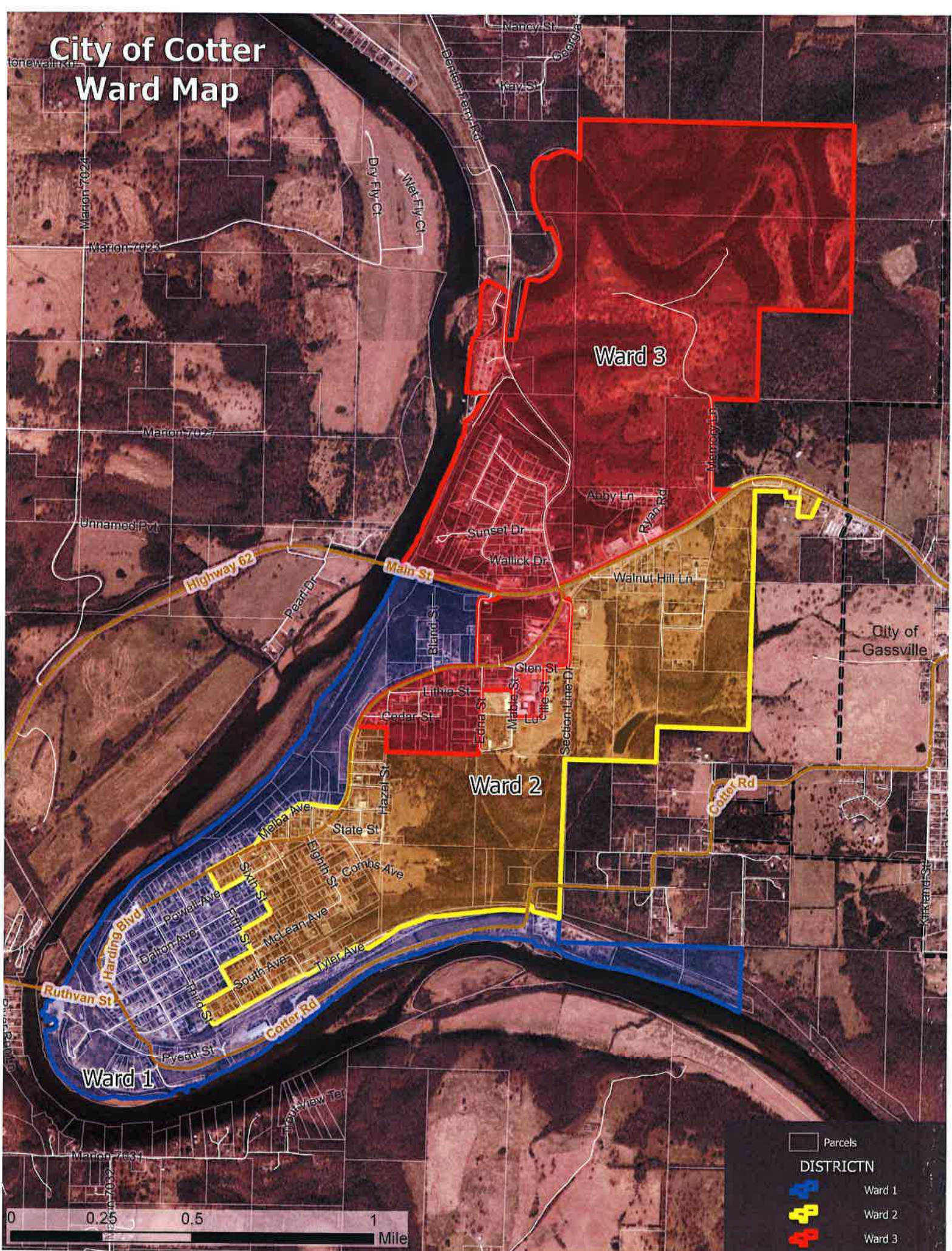


# City of Cotter Ward Map







## **Department of Transformation and Shared Services**

**Governor Asa Hutchinson  
Secretary Amy Fecher  
Director Shelby Johnson**

December 1, 2021

Honorable Mayor Mac Caradine  
PO Box 9  
Cotter, AR 72626

RE: Allocation Method to Split Block 050059509002001

Mayor Caradine,

The Arkansas Geographic Information Systems (GIS) Office is pleased to provide the following report documenting the results and procedures used to estimate the population of Census Block 050059509002001 as manually split according to your request.

Because the boundary for block 050059509002001 does not conform to the desired overall ward boundaries, and because redistricting software does not allow the splitting of blocks, the Arkansas GIS Office was asked to prepare a new map and estimate the population for the split block.

### **Overview**

- The total population reported by the US Census Bureau for Block 050059509002001 is 107 persons.
- The estimated population within the split area is 12 persons.

### **Method**

The estimate contained in this report is informed by the 2020 Decennial Census SF1 block file released on August 12, 2021; physical address data provided by the Baxter County 911 Addressing authority (last updated in November 2020); and the proposed wards provided by your office on November 23, 2021.

The method used to perform this allocation utilizes the number of residential address points from Baxter County 911 compared to the total population for the block. The number of residential addresses was counted in the full block (54). Then, the number of addresses was counted in the split block (6). These values were used to calculate the percentage of addresses inside the split portion of the block. That percentage was then used as the variable to estimate the population for the split block using the original Census population totals.

### **Arkansas Geographic Information Systems**

501 Woodlane Street, Suite G04 \* Little Rock, AR 72201 \* 501.682.2767  
TRANSFORM.AR.GOV

## Results

Step 1) Addresses inside the split block/addresses inside the whole block = Percent of addresses inside the split block ( $6/54 = 11.11\%$ ).

Step 2) Percent of addresses inside split block \* total Census block population = Estimated population in split block ( $0.11 * 107 = 12$  persons)

Sincerely,

A handwritten signature in black ink, appearing to be 'JW' with a stylized flourish.

Jennifer Wheeler  
Sr. GIS Analyst

Attachments: Allocation table, map

# Location of split block

This portion of the block was split and its population allocated into Ward 3.

050059509002001

 Split Area

 Residential Addresses

 block050059509002001

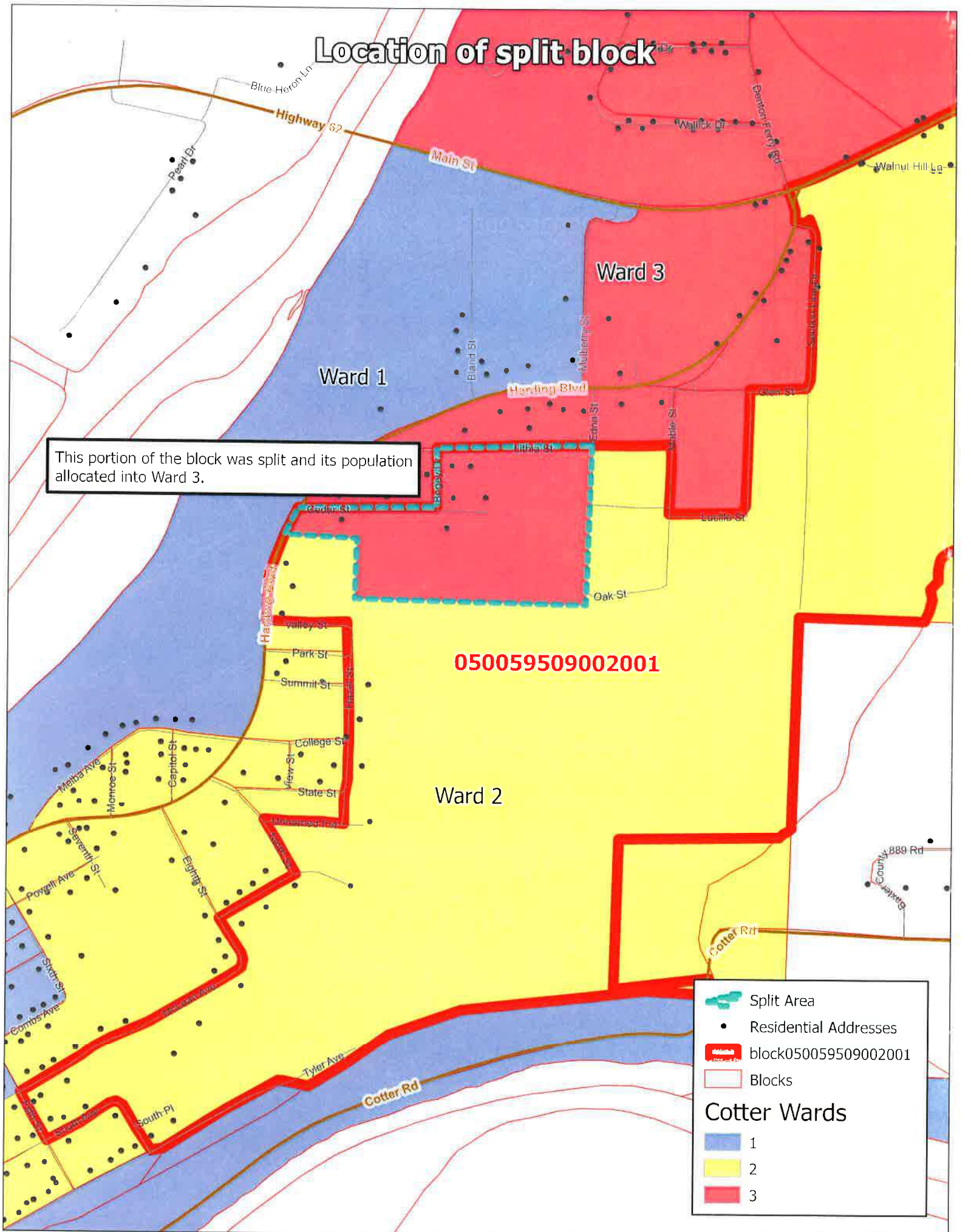
 Blocks

### Cotter Wards

 1

 2

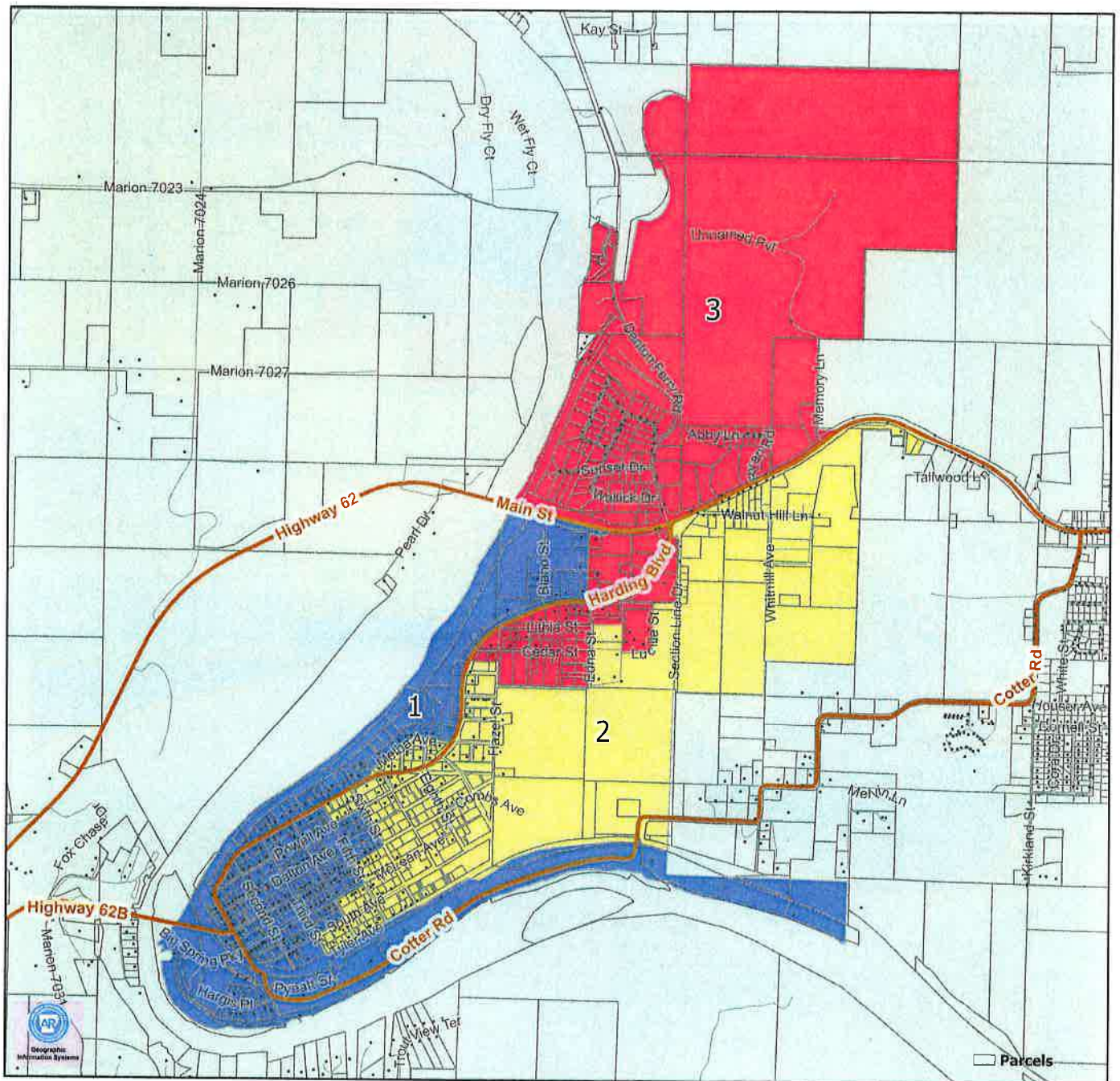
 3



| geoid10         | place | 2020 Block<br>Population | Residential<br>Addresses in Full<br>Block | Residential<br>Addresses in<br>Split Block | % Residential<br>Addresses Inside<br>Split Block | Population to<br>Reallocate to<br>from Ward 2<br>to Ward 3 |
|-----------------|-------|--------------------------|-------------------------------------------|--------------------------------------------|--------------------------------------------------|------------------------------------------------------------|
| 050059509002001 | 15490 | 107                      | 54                                        | 6                                          | 11%                                              | 12                                                         |



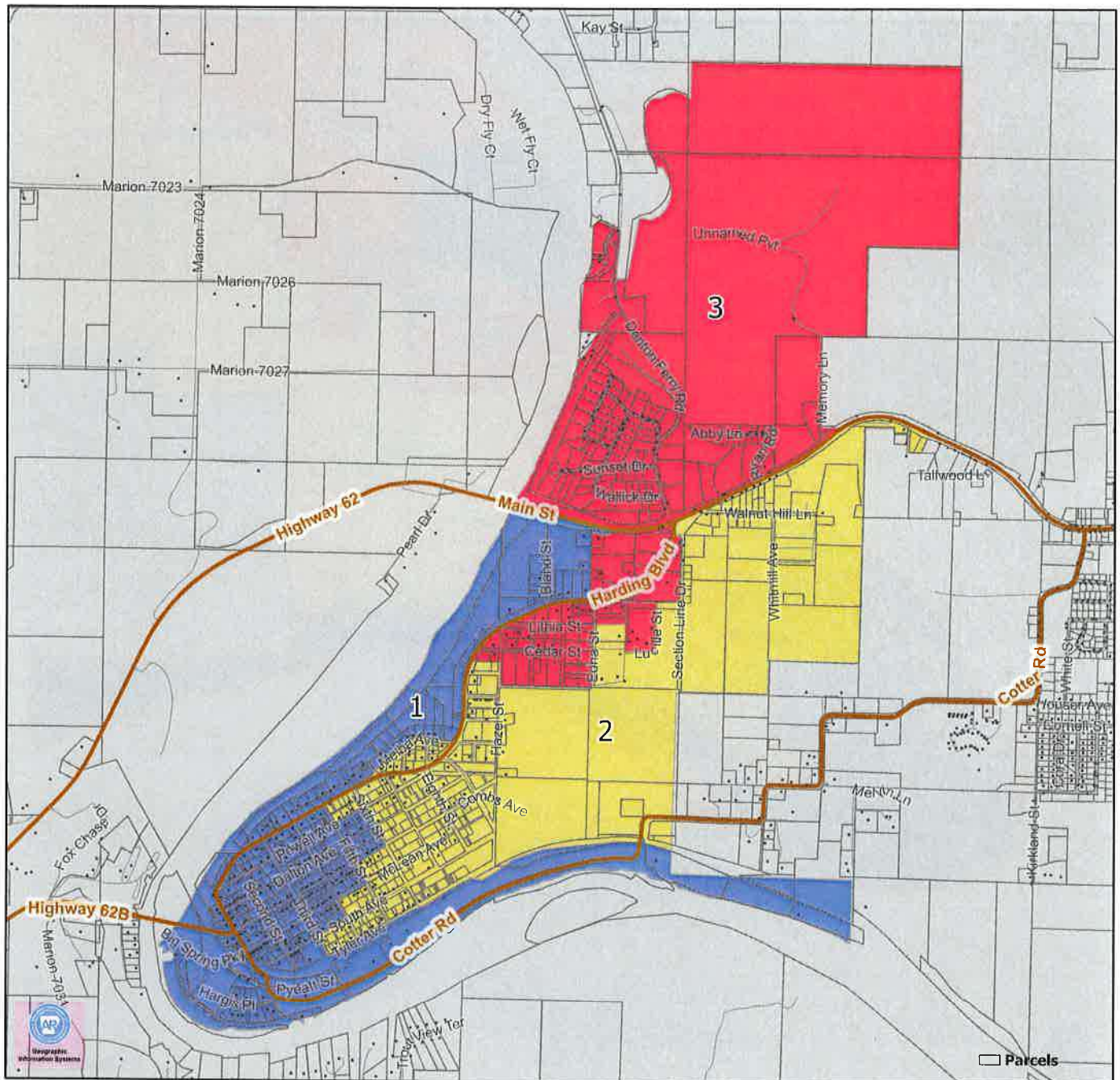
# Exhibit 1 - City of Cotter Wards



| Ward       | Total Population Tabulation |        |        |            | Racial Demographics as a Percent of Total Population |       |          |          |
|------------|-----------------------------|--------|--------|------------|------------------------------------------------------|-------|----------|----------|
|            | All Persons                 | Target | Diff.  | Difference | White                                                | Black | Hispanic | Minority |
| 1          | 298                         | 295    | 0.90%  | 3          | 82.21%                                               | 0.34% | 3.36%    | 17.79%   |
| 2          | 287                         | 295    | -2.82% | -8         | 97.56%                                               | 0.00% | 3.14%    | 2.44%    |
| 3          | 301                         | 295    | 1.92%  | 6          | 88.70%                                               | 0.00% | 1.00%    | 11.30%   |
| Assigned   | 886                         |        |        |            |                                                      |       |          |          |
| Total Pop  | 886                         |        |        |            |                                                      |       |          |          |
| Unassigned | 0                           |        |        |            |                                                      |       |          |          |

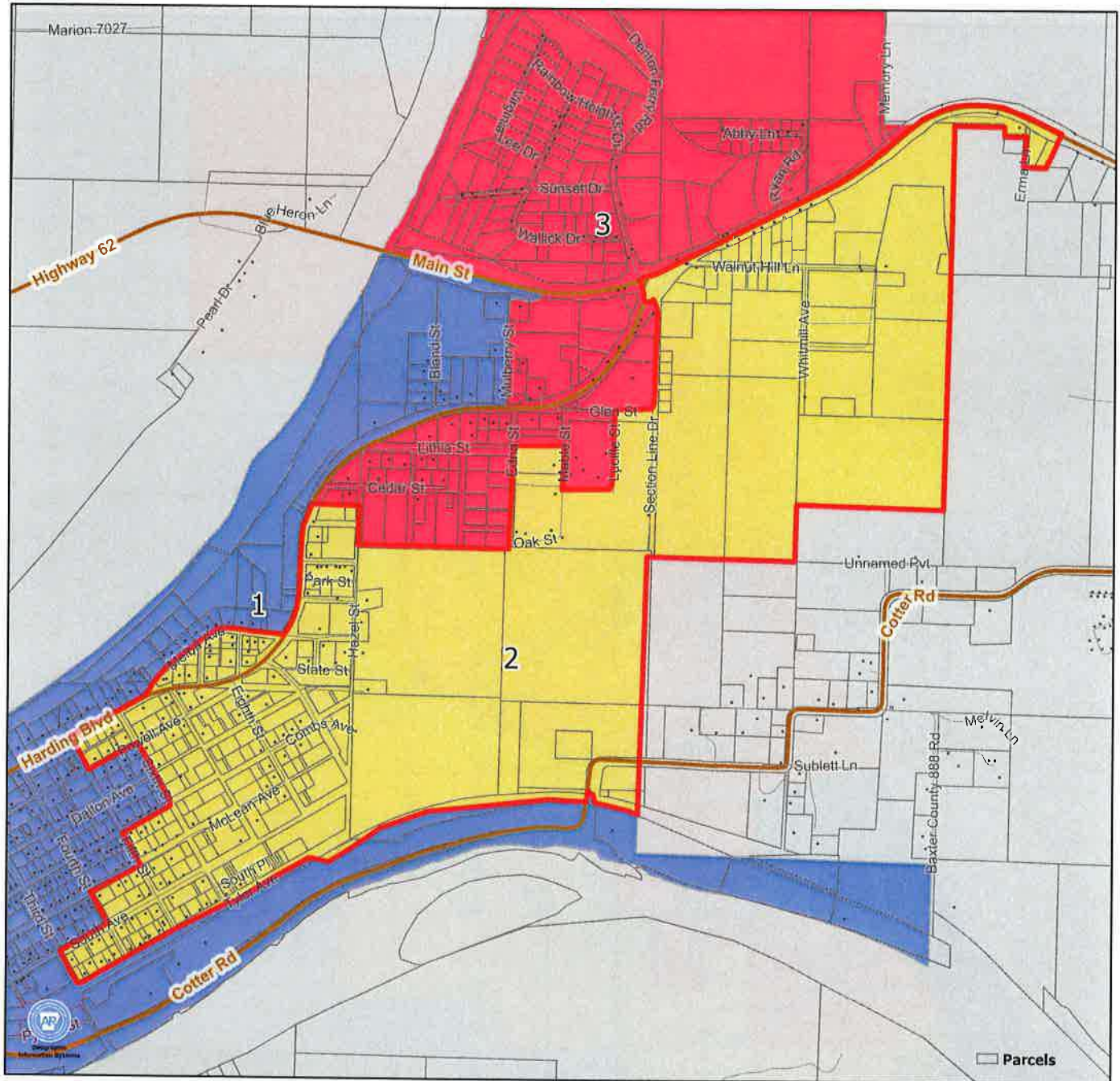


# Exhibit 1 - City of Cotter Wards



| Ward       | Total Population Tabulation |        |         |            | Racial Demographics as a Percent of Total Population |       |          |          |
|------------|-----------------------------|--------|---------|------------|------------------------------------------------------|-------|----------|----------|
|            | All Persons                 | Target | Dev.    | Difference | White                                                | Black | Hispanic | Minority |
| 1          | 298                         | 295    | 0.90%✓  | 3          | 82.21%                                               | 0.34% | 3.36%    | 17.79%   |
| 2          | 287                         | 295    | -2.82%✓ | -8         | 97.56%                                               | 0.00% | 3.14%    | 2.44%    |
| 3          | 301                         | 295    | 1.92%✓  | 6          | 88.70%                                               | 0.00% | 1.00%    | 11.30%   |
| Assigned   | 886                         |        |         |            |                                                      |       |          |          |
| Total Pop  | 886                         |        |         |            |                                                      |       |          |          |
| Unassigned | 0                           |        |         |            |                                                      |       |          |          |

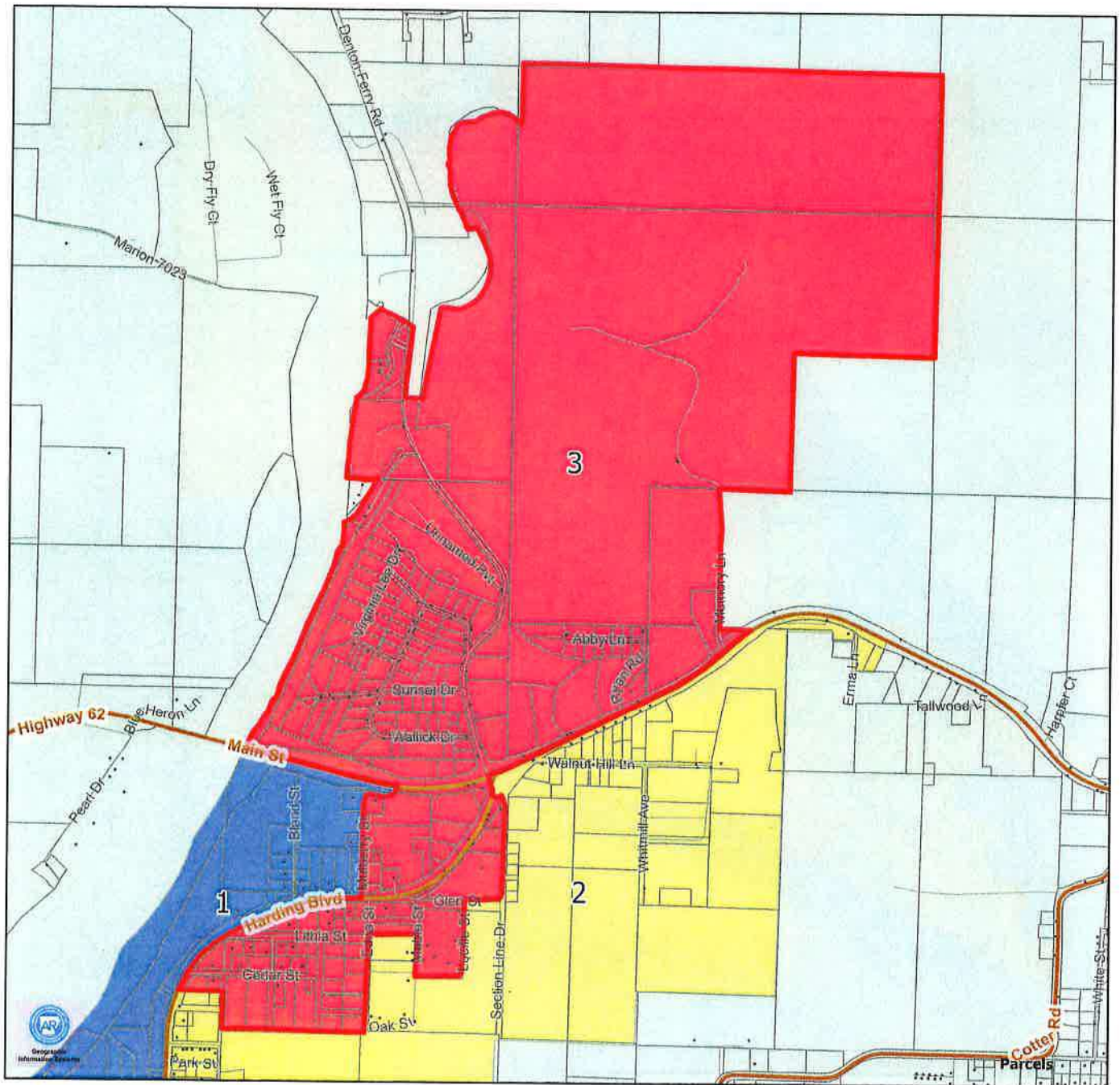
## Exhibit 3 - Ward 2



| Ward       | Total Population Tabulation |        |         |            | Racial Demographics as a Percent of Total Population |       |          |          |
|------------|-----------------------------|--------|---------|------------|------------------------------------------------------|-------|----------|----------|
|            | All Persons                 | Target | Dev.    | Difference | White                                                | Black | Hispanic | Minority |
| 1          | 298                         | 295    | 0.90%✓  | 3          | 82.21%                                               | 0.34% | 3.36%    | 17.79%   |
| 2          | 287                         | 295    | -2.82%✓ | -8         | 97.56%                                               | 0.00% | 3.14%    | 2.44%    |
| 3          | 301                         | 295    | 1.92%✓  | 6          | 88.70%                                               | 0.00% | 1.00%    | 11.30%   |
| Assigned   | 886                         |        |         |            |                                                      |       |          |          |
| Total Pop  | 886                         |        |         |            |                                                      |       |          |          |
| Unassigned | 0                           |        |         |            |                                                      |       |          |          |



## Exhibit 4 - Ward 3



| Ward       | Total Population Tabulation |        |        |        | Racial Demographics as a Percent of Total Population |        |          |          |        |
|------------|-----------------------------|--------|--------|--------|------------------------------------------------------|--------|----------|----------|--------|
|            | All Persons                 | Target | Diff   | % Diff | White                                                | Black  | Hispanic | Minority |        |
| 1          | 298                         | 295    | 0.90%  | ✓      | 3                                                    | 82.21% | 0.34%    | 3.36%    | 17.79% |
| 2          | 287                         | 295    | -2.82% | ✓      | -8                                                   | 97.56% | 0.00%    | 3.14%    | 2.44%  |
| 3          | 301                         | 295    | 1.92%  | ✓      | 6                                                    | 88.70% | 0.00%    | 1.00%    | 11.30% |
| Assigned   | 886                         |        |        |        |                                                      |        |          |          |        |
| Total Pop  | 886                         |        |        |        |                                                      |        |          |          |        |
| Unassigned | 0                           |        |        |        |                                                      |        |          |          |        |

## Census Block Report

**For Ward: 1**      **Population: 298**      **Ideal: 295**      **Deviation:**      **0.90 %**

**Geography Layer: Blocks**

**Ward: 1**

In Baxter County

| Feature Name | Geoid           | Total<br>Persons | Voting<br>Age | White | Black | Hispanic | Asian | American<br>Indian | Hawaiian<br>Pacific<br>Islander |
|--------------|-----------------|------------------|---------------|-------|-------|----------|-------|--------------------|---------------------------------|
| Block 2019   | 050059509002019 | 22               | 14            | 19    | 0     | 0        | 0     | 0                  | 0                               |
| Block 2022   | 050059509002022 | 47               | 42            | 43    | 0     | 0        | 0     | 4                  | 0                               |
| Block 2023   | 050059509002023 | 13               | 6             | 11    | 0     | 2        | 0     | 0                  | 0                               |
| Block 2024   | 050059509002024 | 7                | 2             | 5     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2026   | 050059509002026 | 7                | 7             | 7     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2028   | 050059509002028 | 2                | 2             | 2     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2030   | 050059509002030 | 0                | 0             | 0     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2031   | 050059509002031 | 2                | 2             | 2     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2042   | 050059509002042 | 10               | 10            | 10    | 0     | 0        | 0     | 0                  | 0                               |
| Block 2043   | 050059509002043 | 6                | 4             | 5     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2044   | 050059509002044 | 0                | 0             | 0     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2045   | 050059509002045 | 0                | 0             | 0     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2046   | 050059509002046 | 0                | 0             | 0     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2047   | 050059509002047 | 1                | 1             | 1     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2048   | 050059509002048 | 0                | 0             | 0     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2049   | 050059509002049 | 10               | 5             | 5     | 0     | 2        | 0     | 0                  | 0                               |
| Block 2050   | 050059509002050 | 7                | 4             | 4     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2051   | 050059509002051 | 4                | 4             | 4     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2052   | 050059509002052 | 7                | 5             | 7     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2053   | 050059509002053 | 9                | 9             | 9     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2054   | 050059509002054 | 8                | 7             | 3     | 0     | 2        | 0     | 0                  | 0                               |
| Block 2055   | 050059509002055 | 2                | 2             | 2     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2056   | 050059509002056 | 0                | 0             | 0     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2057   | 050059509002057 | 15               | 15            | 9     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2059   | 050059509002059 | 4                | 3             | 4     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2060   | 050059509002060 | 10               | 8             | 8     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2061   | 050059509002061 | 17               | 12            | 15    | 1     | 1        | 0     | 1                  | 0                               |
| Block 2062   | 050059509002062 | 12               | 10            | 6     | 0     | 2        | 0     | 0                  | 0                               |
| Block 2063   | 050059509002063 | 13               | 8             | 12    | 0     | 0        | 0     | 0                  | 0                               |
| Block 2064   | 050059509002064 | 24               | 17            | 24    | 0     | 0        | 0     | 0                  | 0                               |
| Block 2065   | 050059509002065 | 9                | 9             | 7     | 0     | 0        | 0     | 2                  | 0                               |
| Block 2066   | 050059509002066 | 10               | 9             | 8     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2067   | 050059509002067 | 2                | 2             | 0     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2068   | 050059509002068 | 9                | 8             | 8     | 0     | 1        | 0     | 0                  | 0                               |
| Block 2069   | 050059509002069 | 9                | 5             | 5     | 0     | 0        | 0     | 0                  | 0                               |
| Block 3047   | 050059509003047 | 0                | 0             | 0     | 0     | 0        | 0     | 0                  | 0                               |
| Block 3057   | 050059509003057 | 0                | 0             | 0     | 0     | 0        | 0     | 0                  | 0                               |

Based on: 2020 Census Geography, 2020 PL94-171



## Census Block Report

**For Ward: 2**      **Population: 287**      **Ideal: 295**      **Deviation: -2.82 %**

**Geography Layer: Blocks**  
In Baxter County

**Ward: 2**

| Feature Name | Geoid             | Total Persons | Voting Age | White | Black | Hispanic | Asian | American Indian | Hawaiian Pacific Islander |
|--------------|-------------------|---------------|------------|-------|-------|----------|-------|-----------------|---------------------------|
| Block 2001   | * 050059509002001 | *95           | 95         | *95   | 0     | 0        | 0     | 0               | 0                         |
| Block 2003   | 050059509002003   | 14            | 11         | 13    | 0     | 0        | 0     | 0               | 0                         |
| Block 2005   | 050059509002005   | 10            | 8          | 10    | 0     | 0        | 0     | 0               | 0                         |
| Block 2008   | 050059509002008   | 0             | 0          | 0     | 0     | 0        | 0     | 0               | 0                         |
| Block 2013   | 050059509002013   | 0             | 0          | 0     | 0     | 0        | 0     | 0               | 0                         |
| Block 2014   | 050059509002014   | 16            | 16         | 14    | 0     | 1        | 1     | 0               | 0                         |
| Block 2015   | 050059509002015   | 0             | 0          | 0     | 0     | 0        | 0     | 0               | 0                         |
| Block 2016   | 050059509002016   | 0             | 0          | 0     | 0     | 0        | 0     | 0               | 0                         |
| Block 2018   | 050059509002018   | 21            | 18         | 16    | 0     | 0        | 0     | 0               | 0                         |
| Block 2020   | 050059509002020   | 43            | 43         | 41    | 0     | 4        | 0     | 0               | 0                         |
| Block 2021   | 050059509002021   | 17            | 13         | 17    | 0     | 0        | 0     | 0               | 0                         |
| Block 2025   | 050059509002025   | 13            | 8          | 10    | 0     | 0        | 0     | 0               | 0                         |
| Block 2027   | 050059509002027   | 1             | 1          | 1     | 0     | 0        | 0     | 0               | 0                         |
| Block 2029   | 050059509002029   | 11            | 10         | 9     | 0     | 3        | 0     | 0               | 0                         |
| Block 2032   | 050059509002032   | 3             | 3          | 3     | 0     | 0        | 0     | 0               | 0                         |
| Block 2058   | 050059509002058   | 1             | 1          | 1     | 0     | 0        | 0     | 0               | 0                         |
| Block 2070   | 050059509002070   | 18            | 15         | 16    | 0     | 0        | 0     | 0               | 0                         |
| Block 2071   | 050059509002071   | 8             | 8          | 7     | 0     | 0        | 0     | 1               | 0                         |
| Block 2072   | 050059509002072   | 6             | 4          | 6     | 0     | 0        | 0     | 0               | 0                         |
| Block 2073   | 050059509002073   | 10            | 6          | 9     | 0     | 1        | 0     | 0               | 0                         |
| Block 3045   | 050059509003045   | 0             | 0          | 0     | 0     | 0        | 0     | 0               | 0                         |

\* Block 050059509002001 was manually split to move 12 persons from Ward 2 to Ward 3. Original population for block 2001 is 107.

| Feature Name | Geoid           | Total Persons | Voting Age | White | Black | Hispanic | Asian | American Indian | Hawaiian Pacific Islander |
|--------------|-----------------|---------------|------------|-------|-------|----------|-------|-----------------|---------------------------|
| Block 2006   | 050059509002006 | 0             | 0          | 0     | 0     | 0        | 0     | 0               | 0                         |
| Block 3049   | 050059509003049 | 0             | 0          | 0     | 0     | 0        | 0     | 0               | 0                         |
| Block 3050   | 050059509003050 | 0             | 0          | 0     | 0     | 0        | 0     | 0               | 0                         |

**For Ward: 3**      **Population: 301**      **Ideal: 295**      **Deviation: 1.92%**

**Geography Layer: Blocks**  
In Baxter County

**Ward: 3**

| Feature Name | Geoid           | Total Persons | Voting Age | White | Black | Hispanic | Asian | American Indian | Hawaiian Pacific Islander |
|--------------|-----------------|---------------|------------|-------|-------|----------|-------|-----------------|---------------------------|
| Block 2002   | 050059509002002 | 13            | 9          | 13    | 0     | 0        | 0     | 0               | 0                         |
| Block 2004   | 050059509002004 | 17            | 16         | 12    | 0     | 1        | 0     | 0               | 0                         |
| Block 2009   | 050059509002009 | 20            | 13         | 19    | 0     | 0        | 1     | 0               | 0                         |
| Block 2010   | 050059509002010 | 6             | 6          | 6     | 0     | 0        | 0     | 0               | 0                         |

Based on: 2020 Census Geography, 2020 PL94-171

## Census Block Report

Geography Layer: Blocks  
In Baxter County

Ward: 3

| Feature Name | Geoid             | Total<br>Persons | Voting<br>Age | White | Black | Hispanic | Asian | American<br>Indian | Hawaiian<br>Pacific<br>Islander |
|--------------|-------------------|------------------|---------------|-------|-------|----------|-------|--------------------|---------------------------------|
| Block 2011   | 050059509002011   | 0                | 0             | 0     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2012   | 050059509002012   | 60               | 53            | 58    | 0     | 1        | 2     | 0                  | 0                               |
| Block 2017   | 050059509002017   | 9                | 8             | 6     | 0     | 1        | 0     | 0                  | 0                               |
| Block 2033   | 050059509002033   | 56               | 44            | 53    | 0     | 0        | 0     | 0                  | 0                               |
| Block 2034   | 050059509002034   | 17               | 13            | 15    | 0     | 0        | 0     | 0                  | 0                               |
| Block 2035   | 050059509002035   | 29               | 20            | 27    | 0     | 0        | 0     | 0                  | 0                               |
| Block 2036   | 050059509002036   | 21               | 21            | 21    | 0     | 0        | 0     | 0                  | 0                               |
| Block 3014   | 050059509003014   | 36               | 33            | 35    | 0     | 0        | 0     | 0                  | 0                               |
| Block 3015   | 050059509003015   | 5                | 3             | 2     | 0     | 0        | 0     | 0                  | 0                               |
| Block 3016   | 050059509003016   | 0                | 0             | 0     | 0     | 0        | 0     | 0                  | 0                               |
| Block 4034   | 050059509004034   | 0                | 0             | 0     | 0     | 0        | 0     | 0                  | 0                               |
| Block 2001   | * 050059509002001 | *12              |               |       |       |          |       |                    |                                 |

\* Block 050059509002001 was manually split to move 12 persons from Ward 2 to Ward 3.