

### **AERIAL MAP**





Center: 41.030810, -93.320993

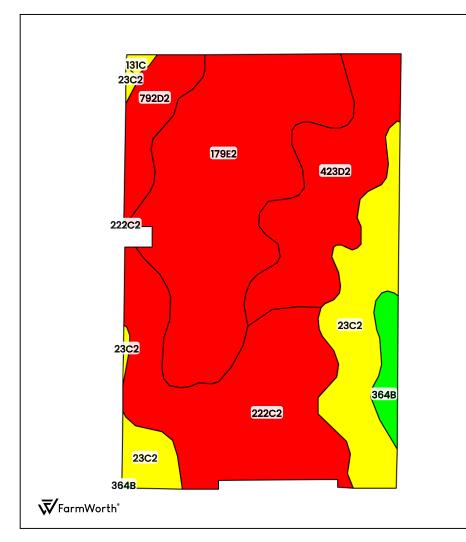
18-72N-21W
Chariton city Township
Lucas County, IA

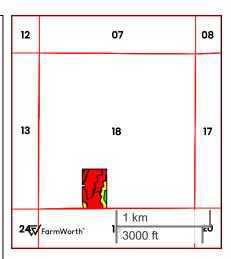
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### **TOTAL SOILS**





County: Lucas County, IA
Location: 18-72N-21W
Township: Chariton city
Acres: 24.72

Date: 09/08/2025



Field borders obtained from Farm Service Agency as of 2008

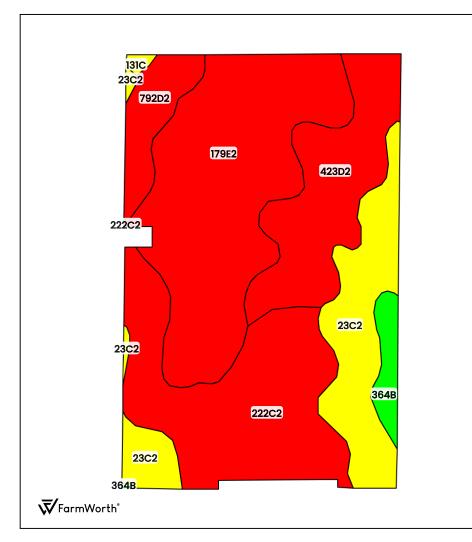
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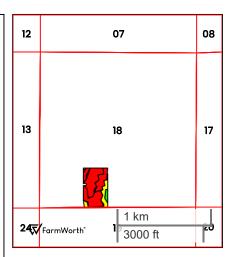
| Code    | Description   | Acres | % of<br>field | IA<br>CSR2 | Overall<br>NCCPI | Soil Class<br>(Irr) | Soil Class<br>(Non-Irr) | Drainage Class          |
|---------|---|-------|---------------|------------|------------------|---------------------|-------------------------|-------------------------|
| 179E2   | Gara clay loam, 14 to 18 percent slopes, moderately eroded          | 8.35  | 33.78 %       | 23         | 62               | -                   | 6                       | Well drained            |
| 222C2   | Clarinda silty clay loam, 5 to 9 percent slopes, moderately eroded  |       |               | 28         | 52               | -                   | 4                       | Poorly drained          |
| 423D2   | Bucknell silty clay loam, 9 to 14 percent slopes, moderately eroded | 4.07  | 16.46 %       | 6          | 62               | -                   | 4                       | Somewhat poorly drained |
| 23C2 🗌  | Arispe silty clay loam, 5 to 9 percent slopes, moderately eroded    | 4.06  | 16.42 %       | 62         | 76               | -                   | 3                       | Somewhat poorly drained |
| 792D2 📕 | Armstrong clay loam, 9 to 14 percent slopes, moderately eroded      | 1.31  | 5.30 %        | 5          | 58               | -                   | 4                       | Somewhat poorly drained |
| 364B    | Grundy silty clay loam, 2 to 5 percent slopes                       | 0.62  | 2.51 %        | 72         | 79               | -                   | 2                       | Somewhat poorly drained |
| 131C 🗌  | Pershing silt loam, 5 to 9 percent slopes                           | 0.09  | 0.36 %        | 65         | 73               | -                   | 3                       | Somewhat poorly drained |
|         |   |       | Average:      | 28.3       | 62.0             |                     |                         |                         |

IA has updated the CSR values for each county to CSR2. Soils data provided by USDA and NRCS.



#### **TILLABLE SOILS**





County: Lucas County, IA
Location: 18-72N-21W
Township: Chariton city

Acres: **24.71** 

Date: 09/08/2025



Field borders obtained from Farm Service Agency as of 2008

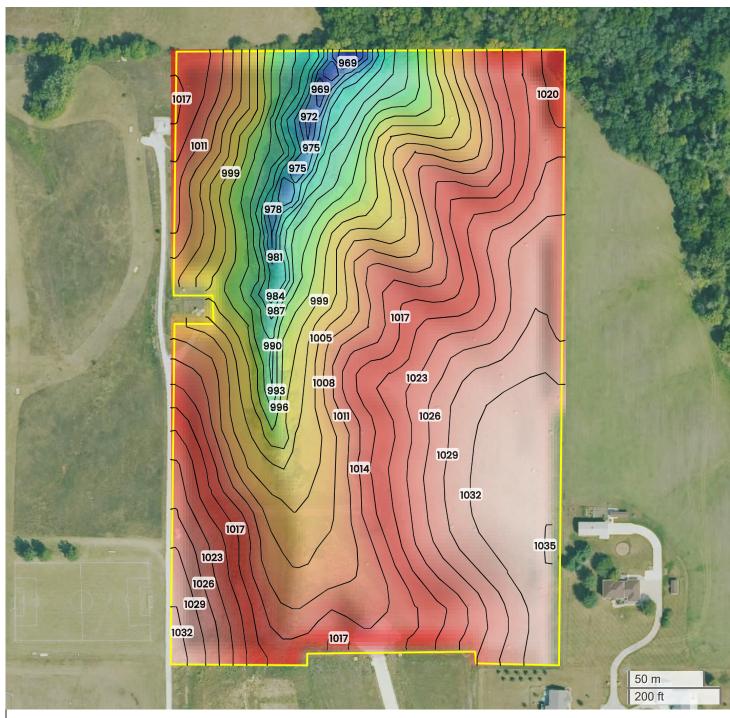
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| Code   | Description   | Acres | % of<br>field | IA<br>CSR2 | Overall<br>NCCPI | Soil Class<br>(Irr) | Soil Class<br>(Non-Irr) | Drainage Class          |
|--|---|-------|---------------|------------|------------------|---------------------|-------------------------|-------------------------|
| 179E2  | Gara clay loam, 14 to 18 percent slopes, moderately eroded          | 8.35  | 33.78 %       | 23         | 62               | -                   | 6                       | Well drained            |
| 222C2 Clarinda silty clay loam, 5 to 9 percent slopes, moderately eroded |   | 6.22  | 25.16 %       | 28         | 52               | -                   | 4                       | Poorly drained          |
| 423D2  | Bucknell silty clay loam, 9 to 14 percent slopes, moderately eroded | 4.07  | 16.46 %       | 6          | 62               | -                   | 4                       | Somewhat poorly drained |
| 23C2 🗌   | Arispe silty clay loam, 5 to 9 percent slopes, moderately eroded    | 4.06  | 16.42 %       | 62         | 76               | -                   | 3                       | Somewhat poorly drained |
| 792D2 📕  | Armstrong clay loam, 9 to 14 percent slopes, moderately eroded      | 1.31  | 5.30 %        | 5          | 58               | -                   | 4                       | Somewhat poorly drained |
| 364B   | Grundy silty clay loam, 2 to 5 percent slopes                       | 0.62  | 2.51 %        | 72         | 79               | -                   | 2                       | Somewhat poorly drained |
| 131C 🗌   | Pershing silt loam, 5 to 9 percent slopes                           | 0.09  | 0.36 %        | 65         | 73               | -                   | 3                       | Somewhat poorly drained |
|  | Average:  |       |               |            |                  |                     |                         |                         |

IA has updated the CSR values for each county to CSR2. Soils data provided by USDA and NRCS.



#### **TOPOGRAPHY**



969 ft 1035 ft



Center: 41.030811, -93.320996

18-72N-21W
Chariton city Township
Lucas County, IA

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 Source:
 USGS 10m DEM

 Interval(ft):
 3

 Max:
 1035.0 ft

 Min:
 969.0 ft

 Range:
 66.0 ft

 Average:
 1002.0 ft





### **CROP HISTORY**



#### **Crop History**

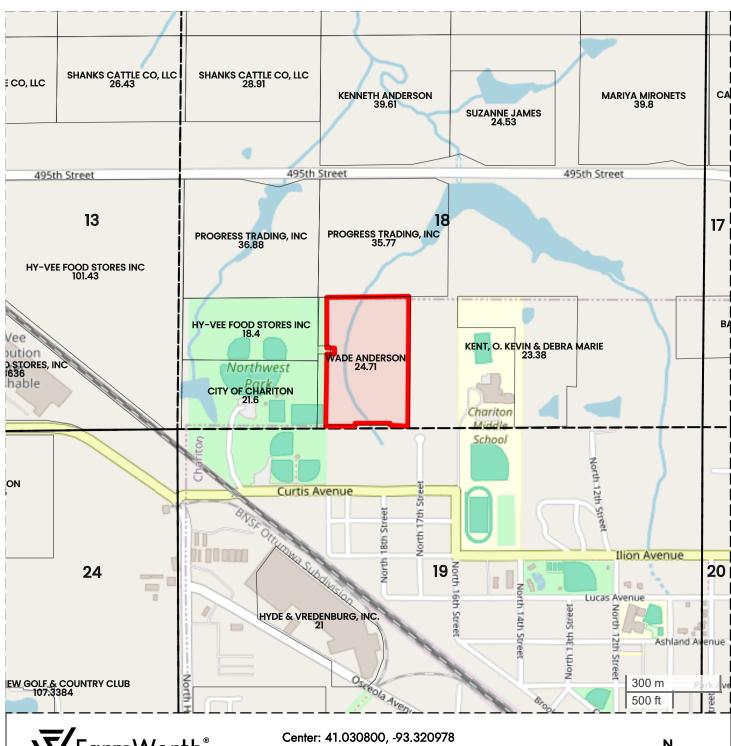
|                       | Percent Area (>0.5 %) |      |      |      |      |      |         |  |
|-----------------------|-----------------------|------|------|------|------|------|---------|--|
| Crop                  | 2024                  | 2023 | 2022 | 2021 | 2020 | 2019 | Average |  |
| Grass/Pasture         | 95.0                  | 79.1 | 83.5 | 79.1 | 70.5 | 62.6 | 78.3    |  |
| Other Hay/Non Alfalfa | 0.0                   | 7.2  | 4.3  | 15.1 | 12.2 | 18.0 | 11.4    |  |
| Deciduous Forest      | 4.3                   | 5.0  | 9.4  | 2.2  | 11.5 | 13.7 | 7.7     |  |
| Mixed Forest          | 0.0                   | 2.9  | 0.0  | 1.4  | 3.6  | 0.7  | 2.2     |  |
| Alfalfa               | 0.0                   | 1.4  | 1.4  | 1.4  | 1.4  | 4.3  | 2.0     |  |
| Soybeans              | 0.0                   | 1.4  | 0.7  | 0.0  | 0.0  | 0.0  | 1.1     |  |

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#### **PLAT MAP**





18-72N-21W

Chariton city Township Lucas County, IA

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# PROXIMITY MAP



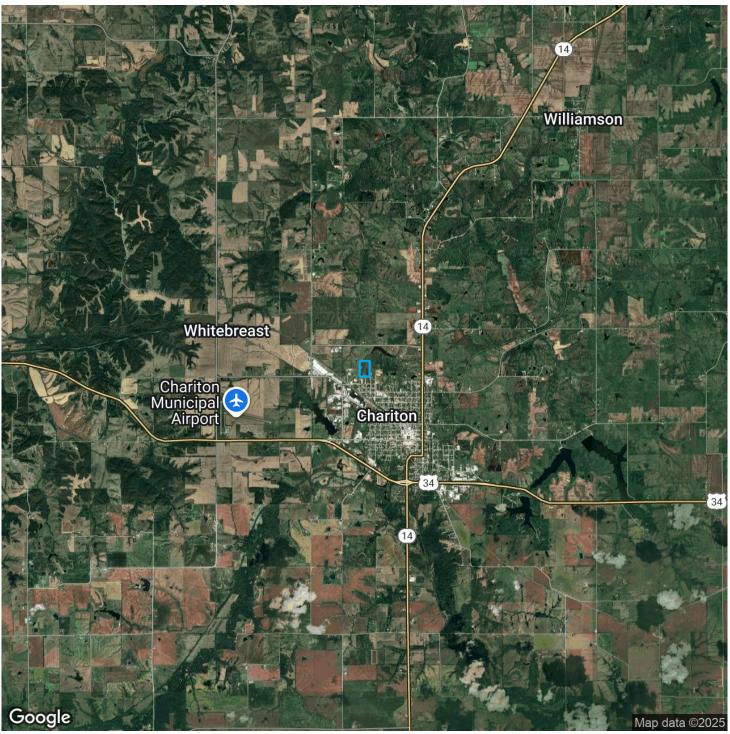
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Get Driving Directions



### **REGIONAL MAP**



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Get Driving Directions

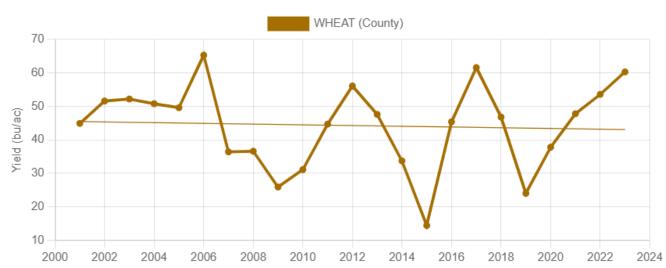
# Farmland Statistics for Lucas County, IA for 2023

|                      | Attribute                                      | Year | Value   |
|----------------------|--|------|---------|
| IA Average           | Farmland Value (\$/ac)                         | 2023 | \$9,410 |
|                      | Cash Rent (\$/ac)                              | 2023 | \$269   |
|                      | Farmland Returns (%)                           | 2023 | 9.05%   |
| Lucas County Average | Price (\$/ac)                                  | 2023 | \$4,346 |
|                      | National Productivity Index (NCCPI3 All Crops) | 2023 | 66      |
|                      | CSR2   | 2023 | 41      |

# RMA Statistics for Lucas County, IA for 2022

| Top Crops | Year | Expected Yield (bu/ac) | APA Trend Adjustment (bu/year) |
|-----------|------|------------------------|--------------------------------|
| Wheat     | 2022 | 41.5                   | 0                              |
| Corn      | 2022 | 138.5                  | 1.68                           |

#### Crop Yields



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