

GIS and Mapping Projects Update

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Monroe County Land Conservation Department

Current Projects

Open Space
Property
Mapping

Floodzone
Structures
Inventory

Land Cover
Assessment

Open Space Properties

Open Space Management Plan Map Series

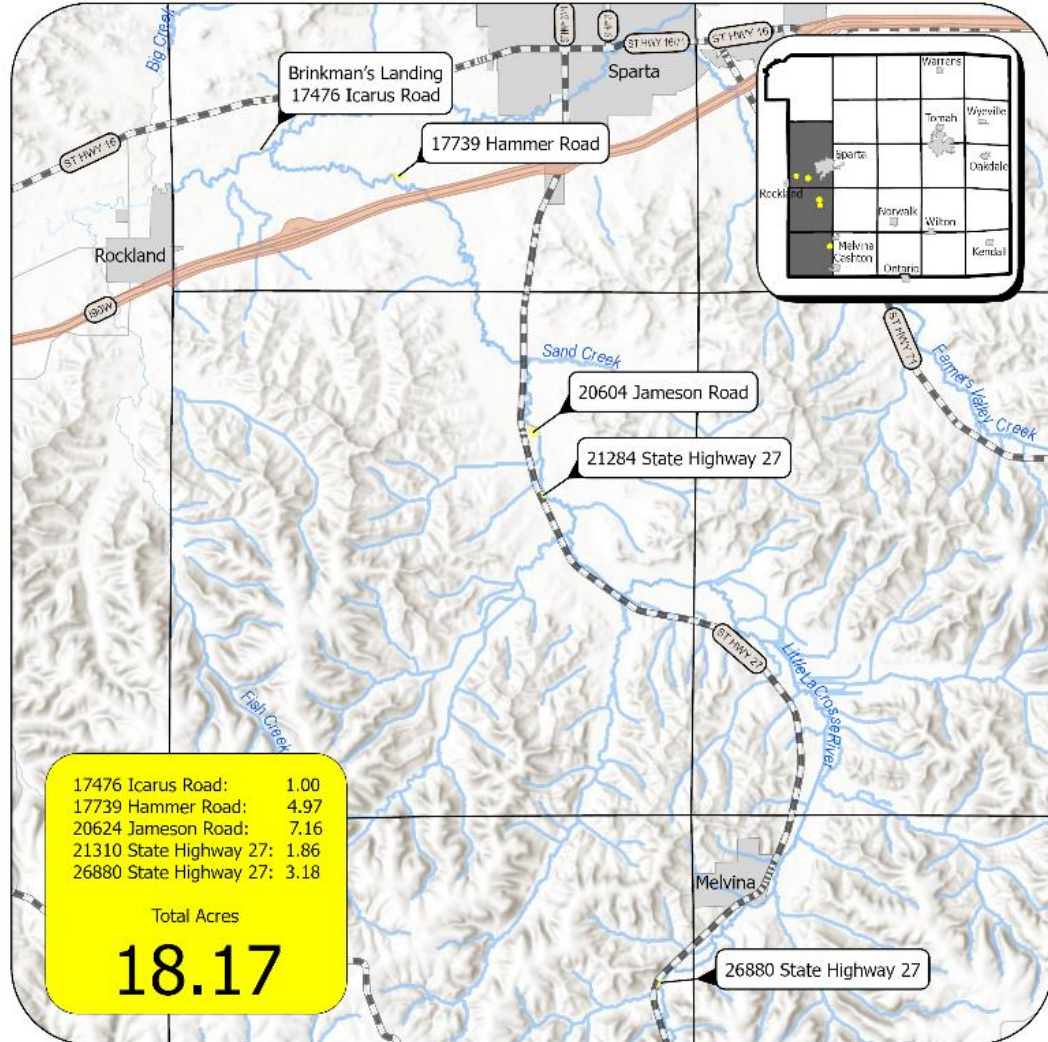
- ▶ Property Location Overview
- ▶ Property Boundary and surrounding land use/land cover
- ▶ Flood zones map
- ▶ Past Conditions
- ▶ Current Conditions



FEMA Voluntary Buyout Project - Monroe County , WI

In late 2018, Monroe County applied for FEMA Grant Funding to provide relief to property owners impacted by severe flooding events.

Open Space Property Locations



Open Space Property

26880 State Highway 27



Monroe County LCD
 Created: June 2023
 Created By: D. Lueck
 Data Sources:
 Monroe County LIO,
 Esri, NASA, NGA, USGS, Esri,
 HERE, Garmin, SafeGraph,
 GeoTechnologies, Inc, METI/
 NASA, USGS, EPA, NPS, USDA

0 12.5 25 50 Mi

This map shows the approximate location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes. This product may not reflect current information. Produced by the Monroe County Land Conservation Department.



Monroe County LCD
 Created: June 2023
 Base Imagery: 08-30-2022
 Township: Portland
 Tract: 12-15N-04W SW SE
 Created By: D. Lueck
 Data Sources:
 Monroe County LIO
 Maxar, Microsoft

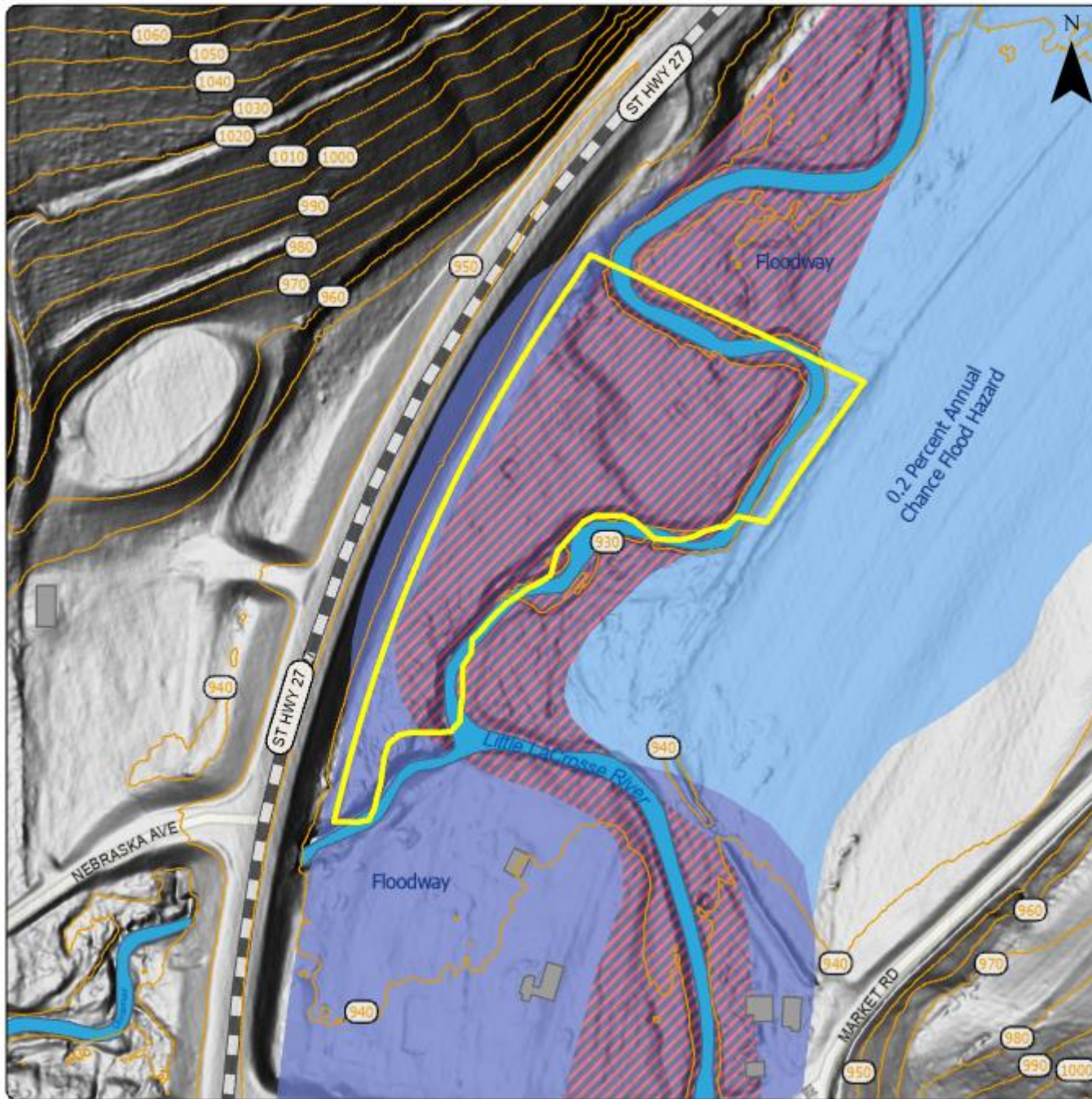
0 250 500 ft.

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Total Acres
3.18





Open Space Properties Flood Zones

26880 State Highway 27

-  0.2% Annual Chance Flood Hazard
-  1% Annual Chance Flood Hazard
-  Regulatory Floodway
-  Streams/Rivers
-  Buildings
-  Contour Lines (ft)



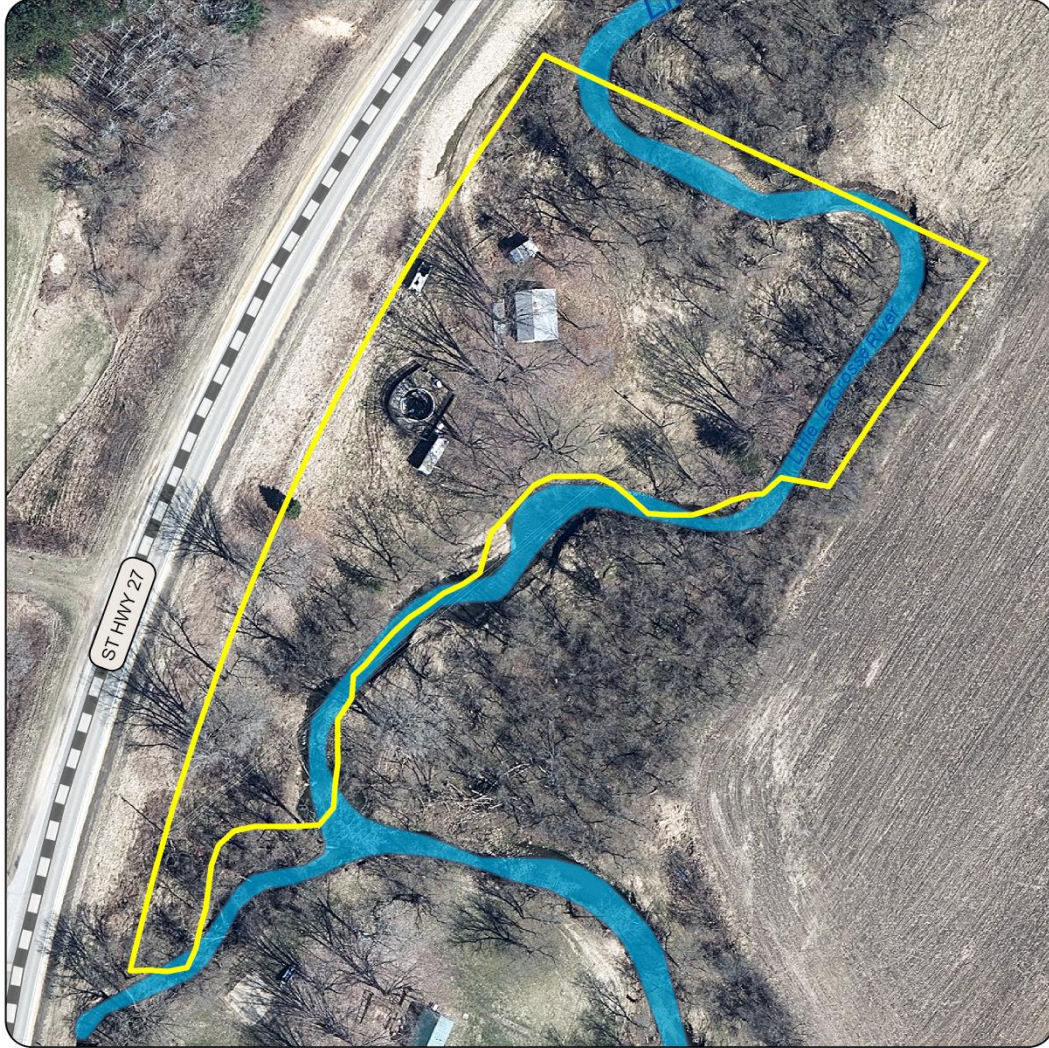
Monroe County LCD
 Created: June 2023
 Created By: D. Lueck
 Township: Sparta
 Imagery: 2019

Data Sources:
 Monroe County LIO

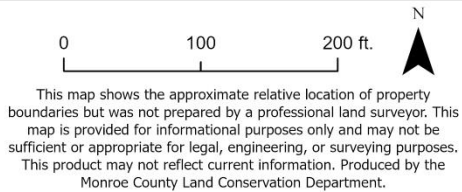
This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. It is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes. This product may not reflect current information. FEMA's National Flood Hazard Layer (NFHL) data is updated as studies become effective. This data (map) was created 7-1-2023 and does not reflect changes or amendments subsequent to this date. This map is for general reference only and should not be used for official National Flood Insurance Program purposes

Open Space Property Past Conditions

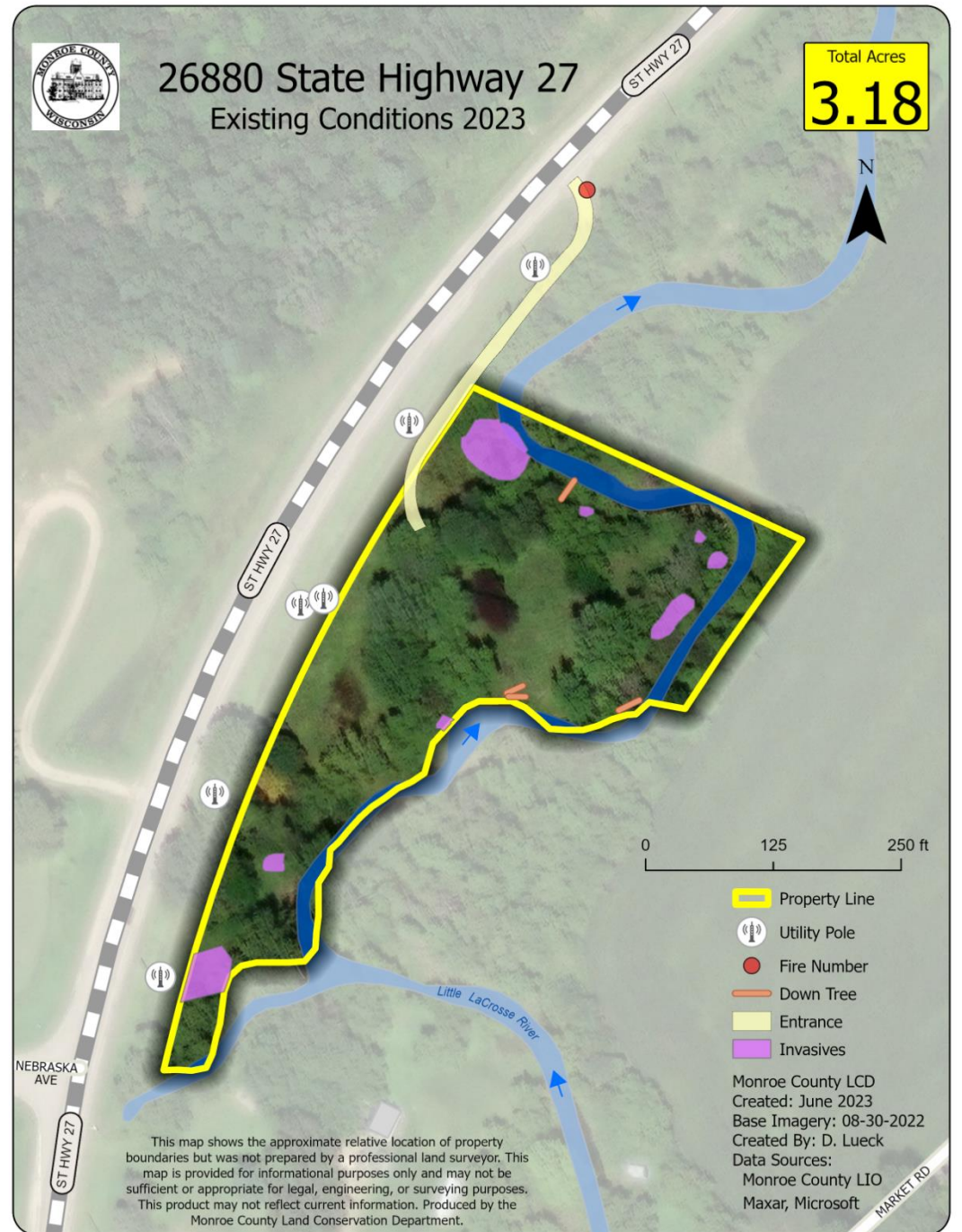
26880 State Highway 27



Monroe County LCD
 Created: June 2023
 Base Imagery: April 2020
 Township: Portland
 Tract: 12-15N-04W SW SE
 Created By: D. Lueck
 Data Sources:
 Monroe County LIO
 Maxar



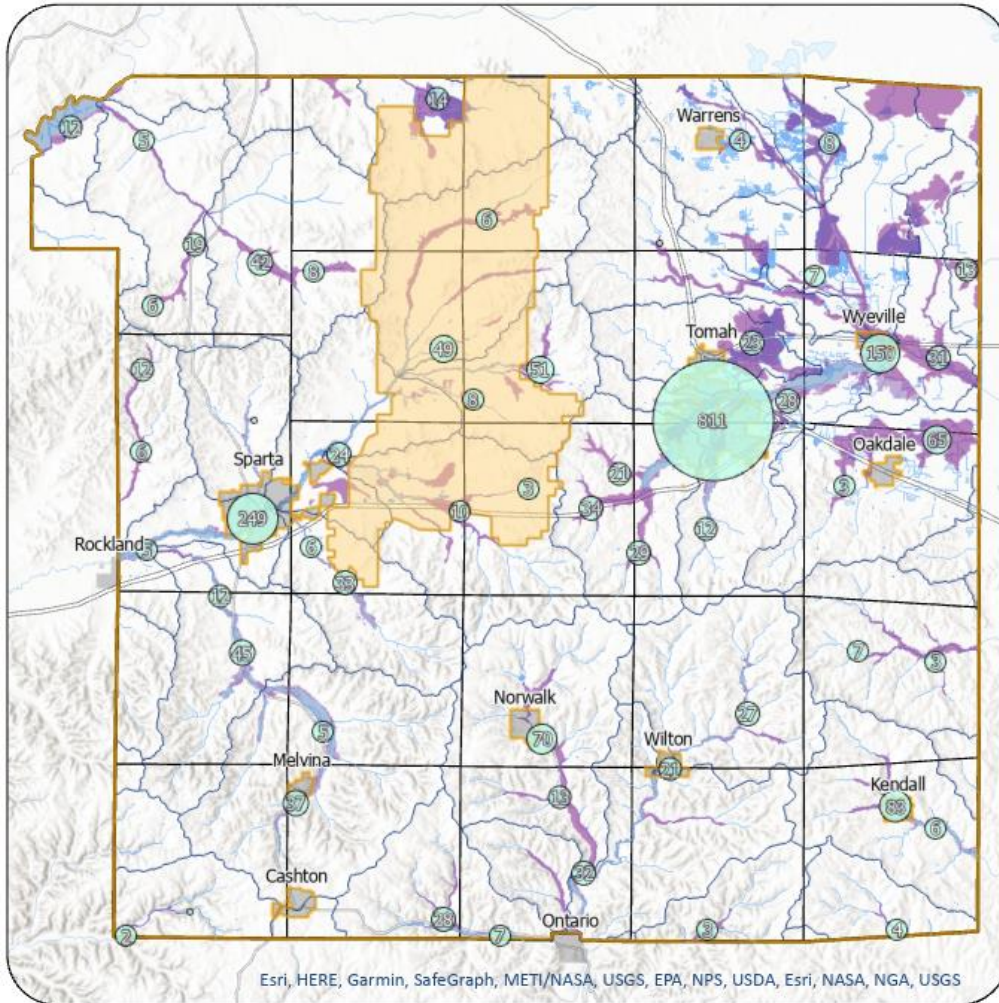
Total Acres
3.18



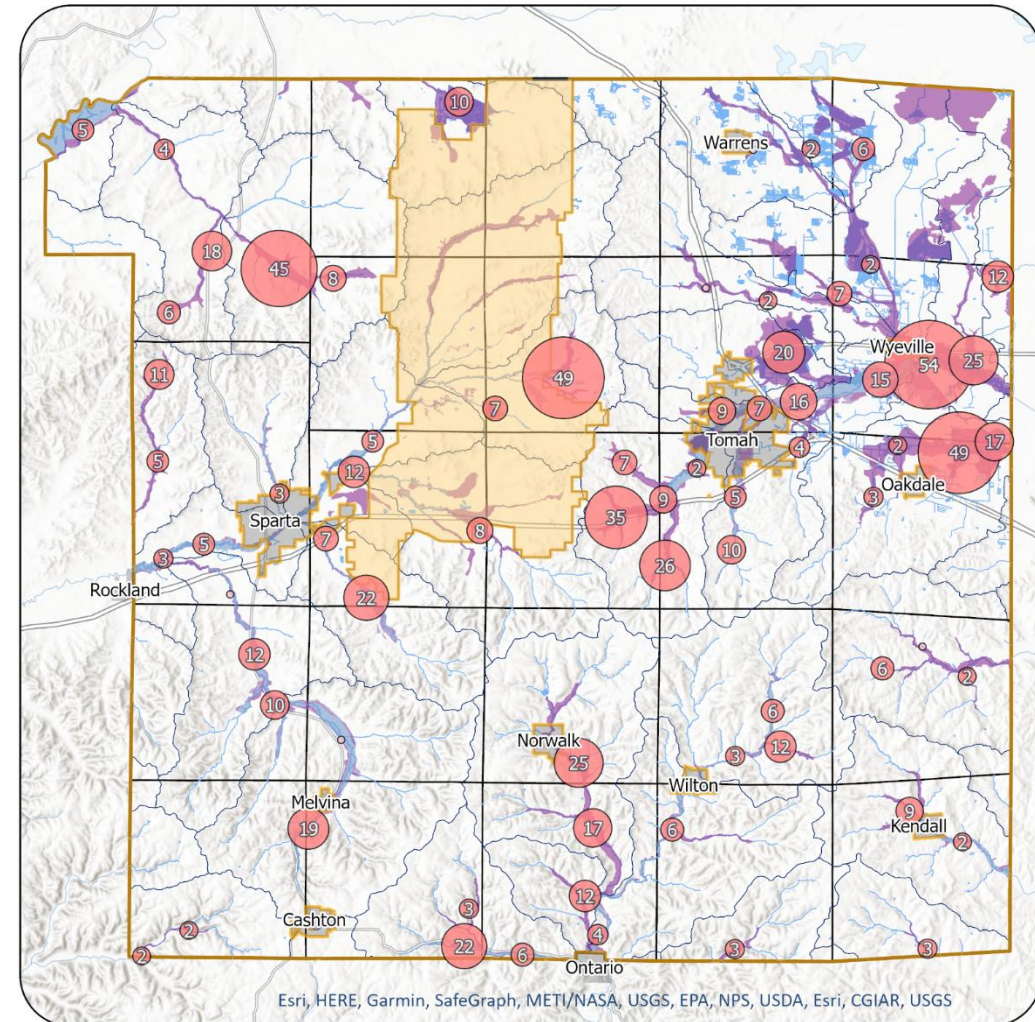
Structures Inventory

- ▶ How many structures are there within flood zones?
- ▶ How many structures are within unincorporated county?
- ▶ How many parcels are impacted by flood zones?
- ▶ How many properties have approved Letters of Map Amendments (LOMAs) or Letters of Map Revisions (LOMRs)
- ▶ Interactive Online Map will be a tool for Emergency Management and County Zoning

Structures in Flood Zones

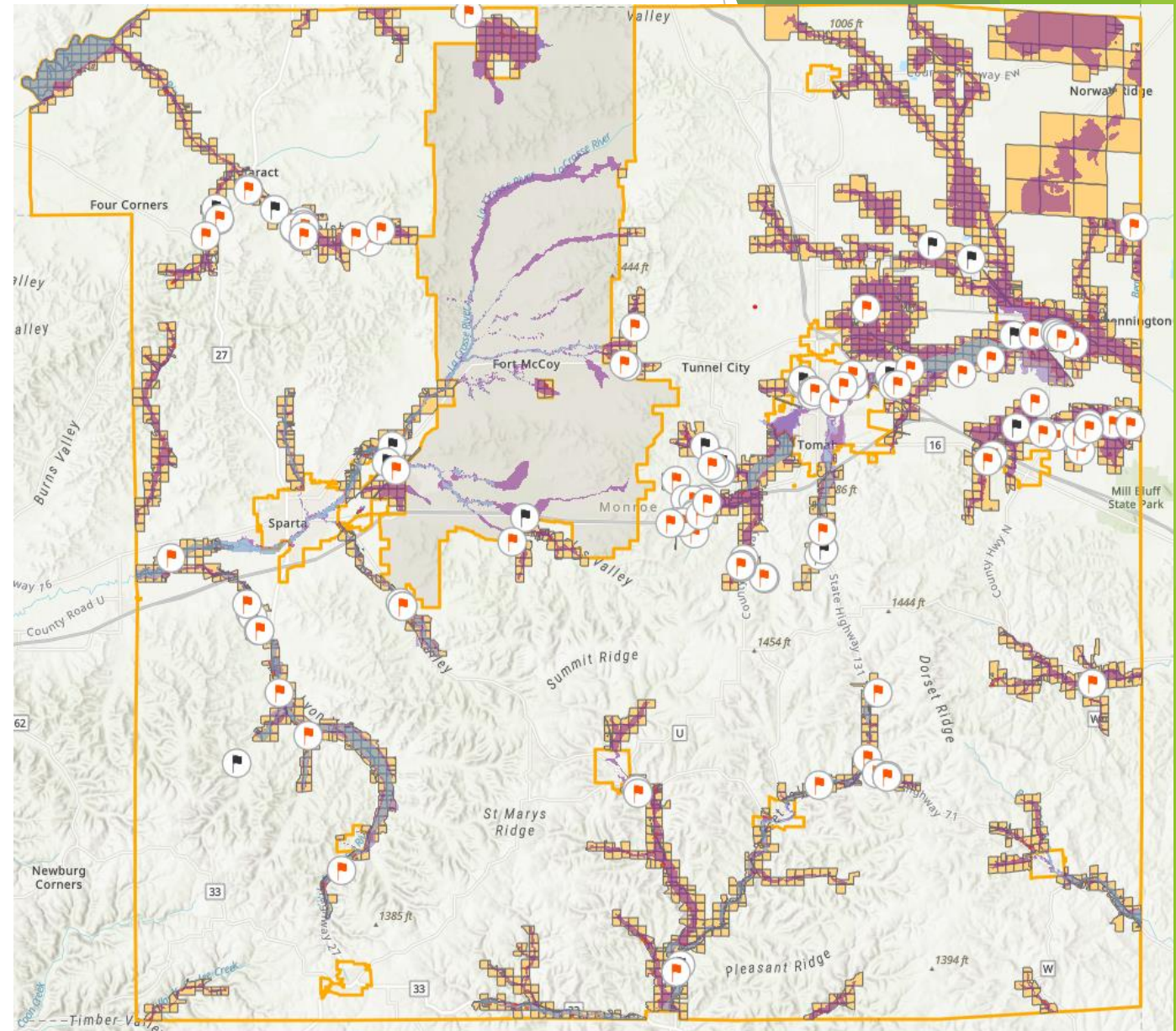


Structures in Flood Zones within unincorporated County

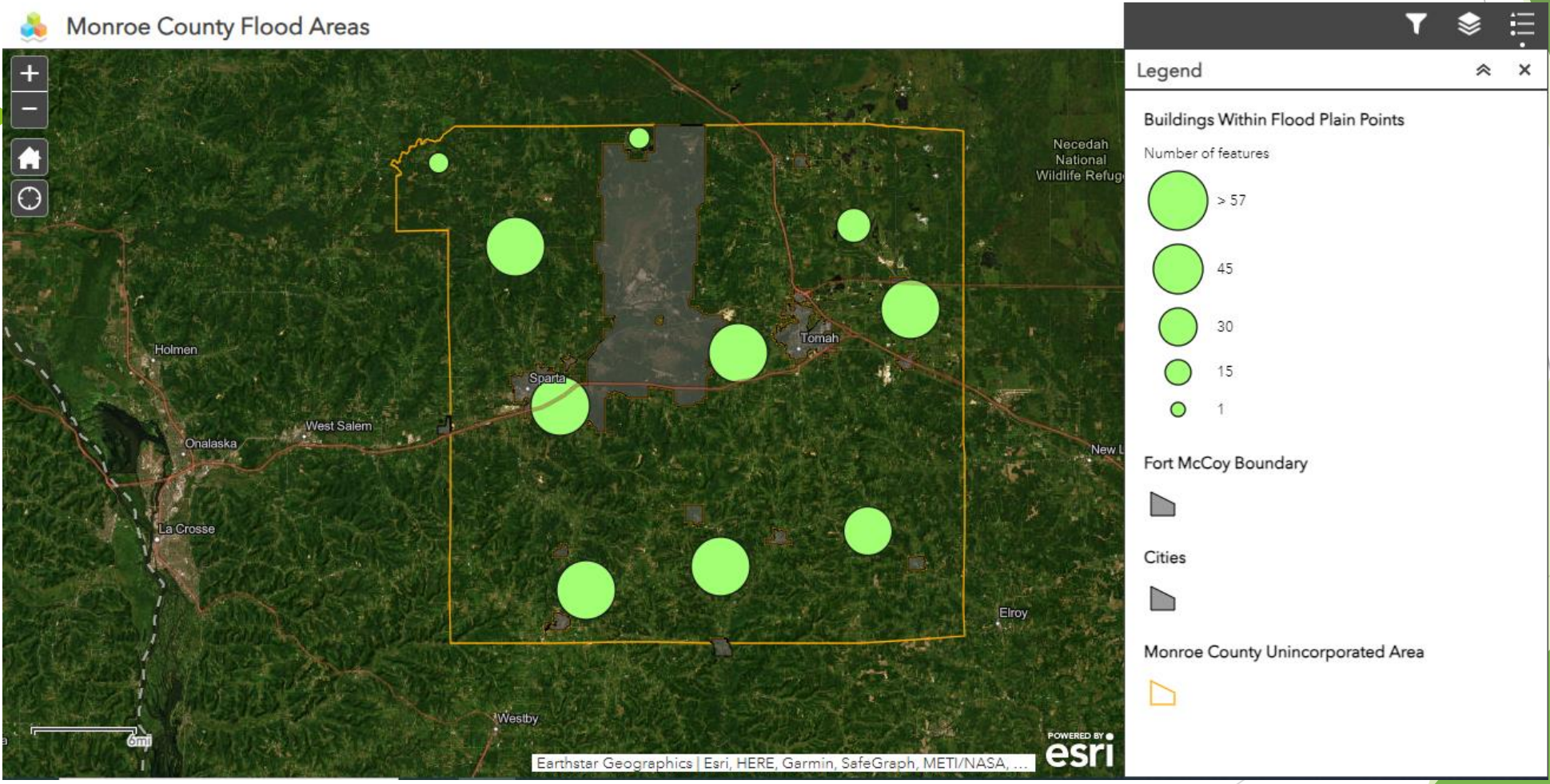


- ▶ Land Information Office 2019 LiDAR data building footprints
- ▶ FEMA's National Flood Hazard Layer

Parcels Impacted by FEMA Flood Zones and LOMA/LOMR

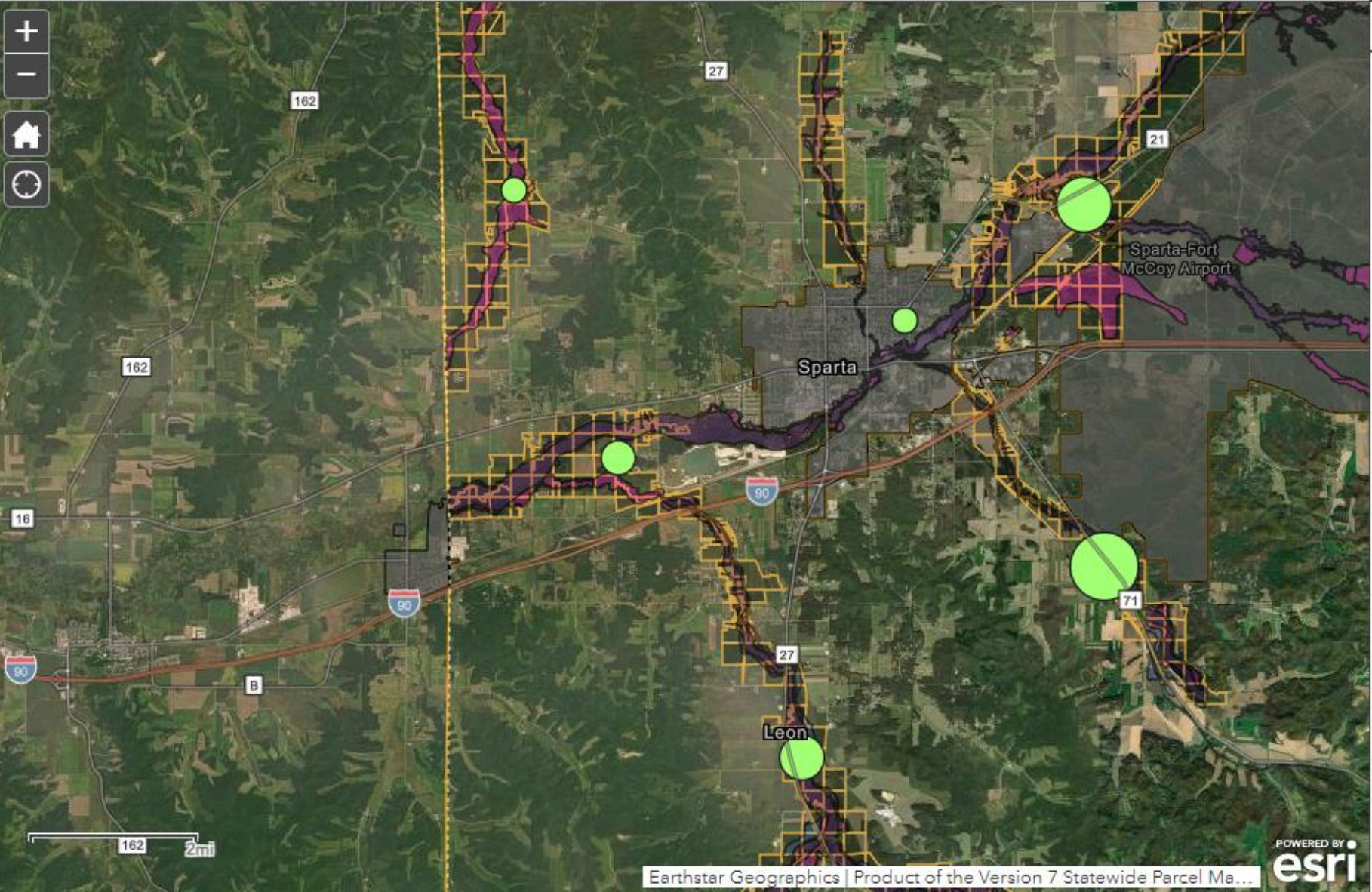


Interactive Flood Zone Structures Map





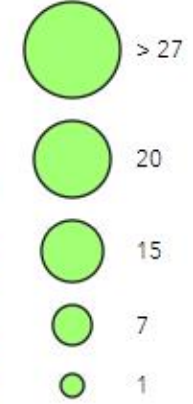
Monroe County Flood Areas



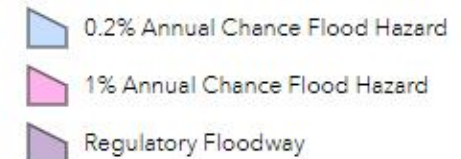
Legend

Buildings Within Flood Plain

Number of features



USA Flood Hazard



Buildings Within Flood Plain

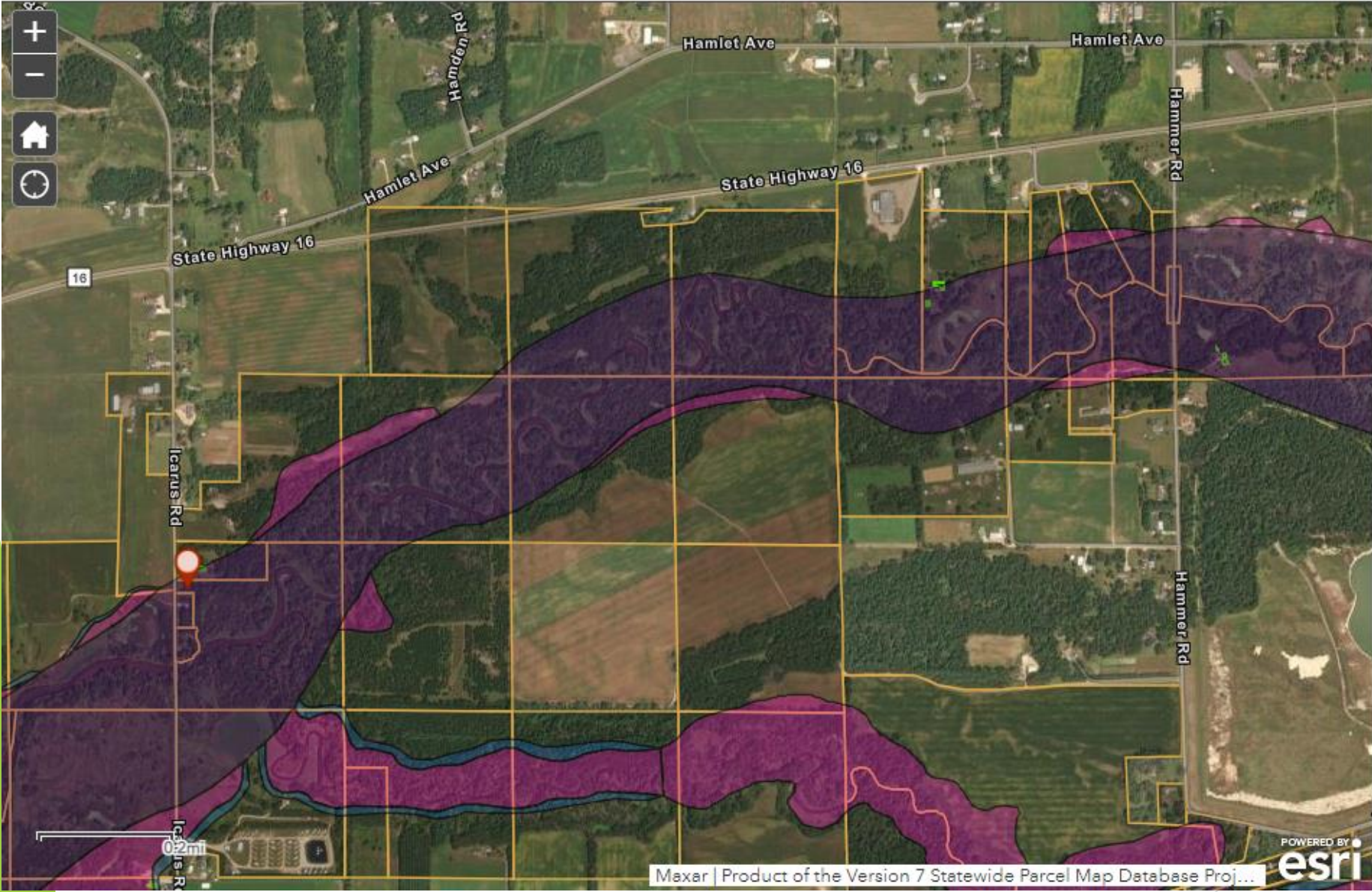


Parcels Within Flood Plain





Monroe County Flood Areas



Mexar | Product of the Version 7 Statewide Parcel Map Database Proj...

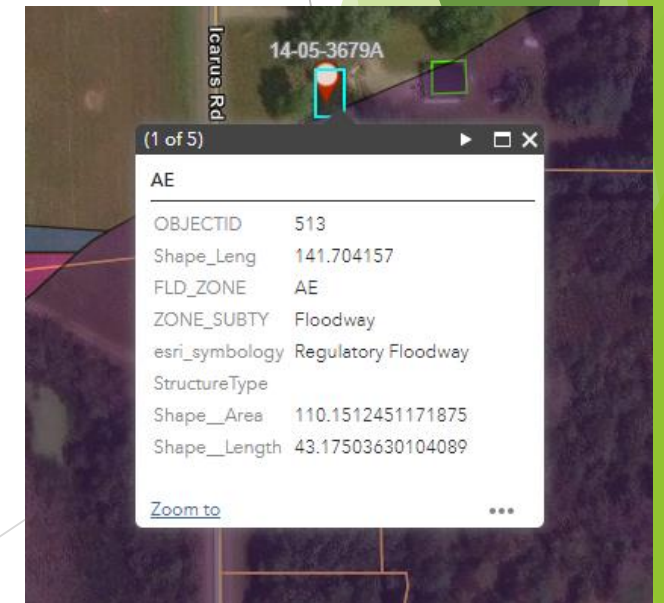
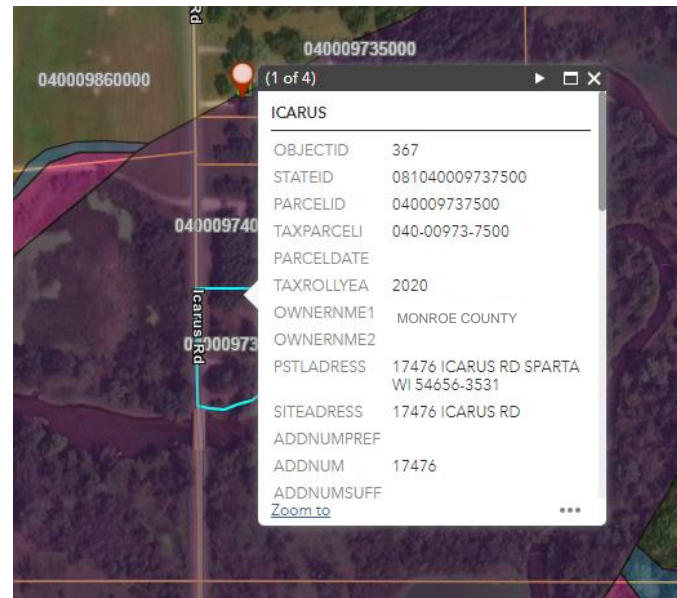
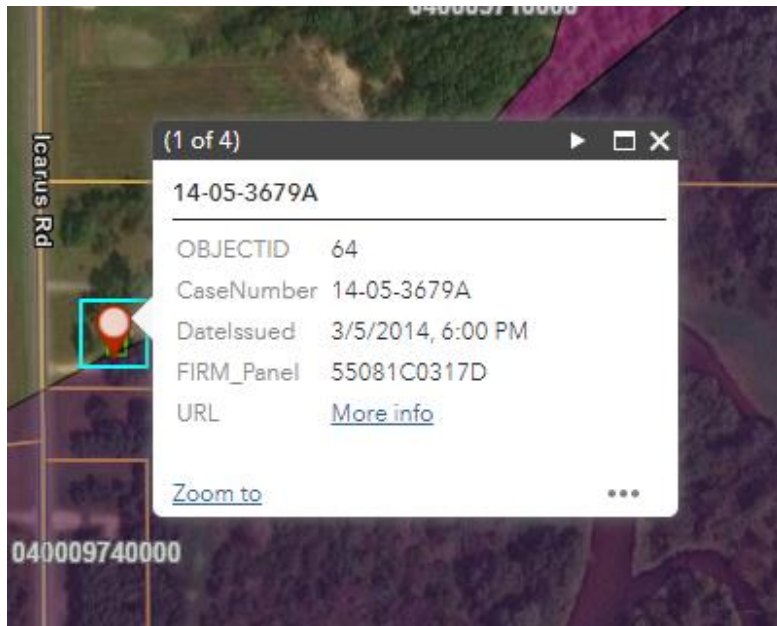
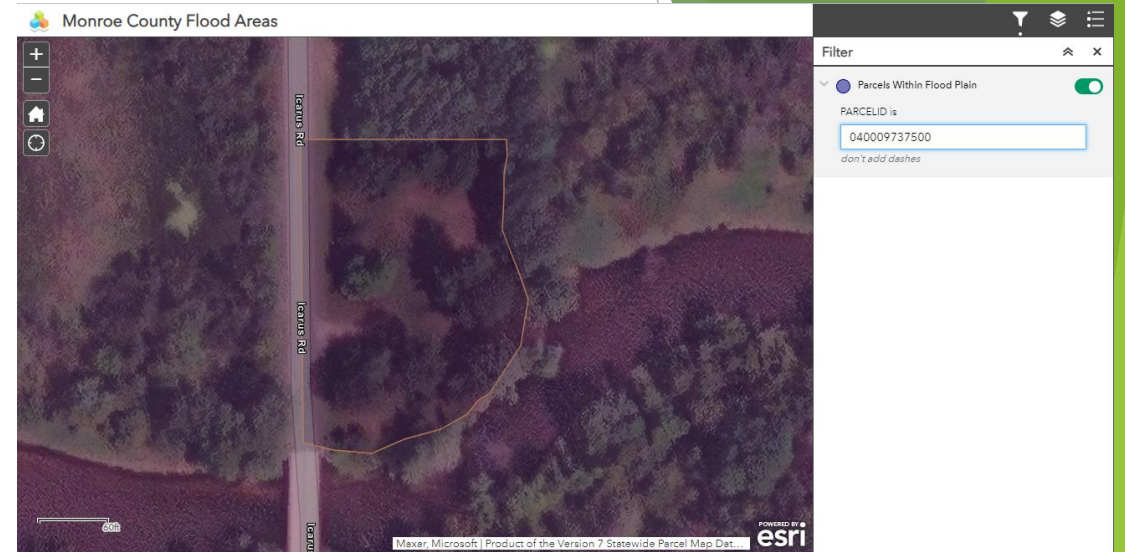


Legend

- FEMA 550571 Effective LOMA
 -
- FEMA 550571 Historic LOMA
 -
- USA Flood Hazard
 - 0.2% Annual Chance Flood Hazard
 - 1% Annual Chance Flood Hazard
 - Regulatory Floodway
- Buildings Within Flood Plain
 -
- Parcels Within Flood Plain
 -
- Fort McCoy Boundary
 -
- Cities
 -

Interactive Functions

- Search by Parcel
- Get info additional information
 - LOMA/LOMR
 - Parcels
 - Structures (flood zone and sq. m)

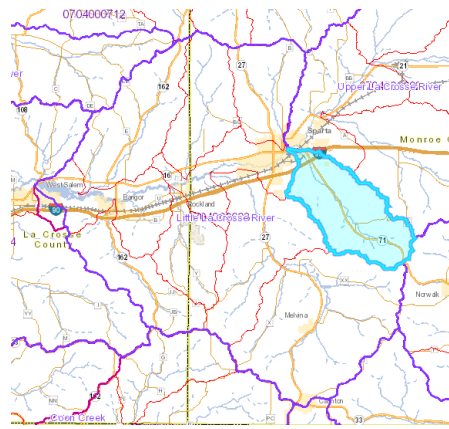


Watershed Land Cover and Structure Assessment Goals

- ▶ To build on the Green Fire Project
- ▶ Update the county's landcover data
- ▶ Identify vulnerabilities and risks within watersheds
- ▶ Inform planning and land use decisions
- ▶ Guide implementation of goals and policies



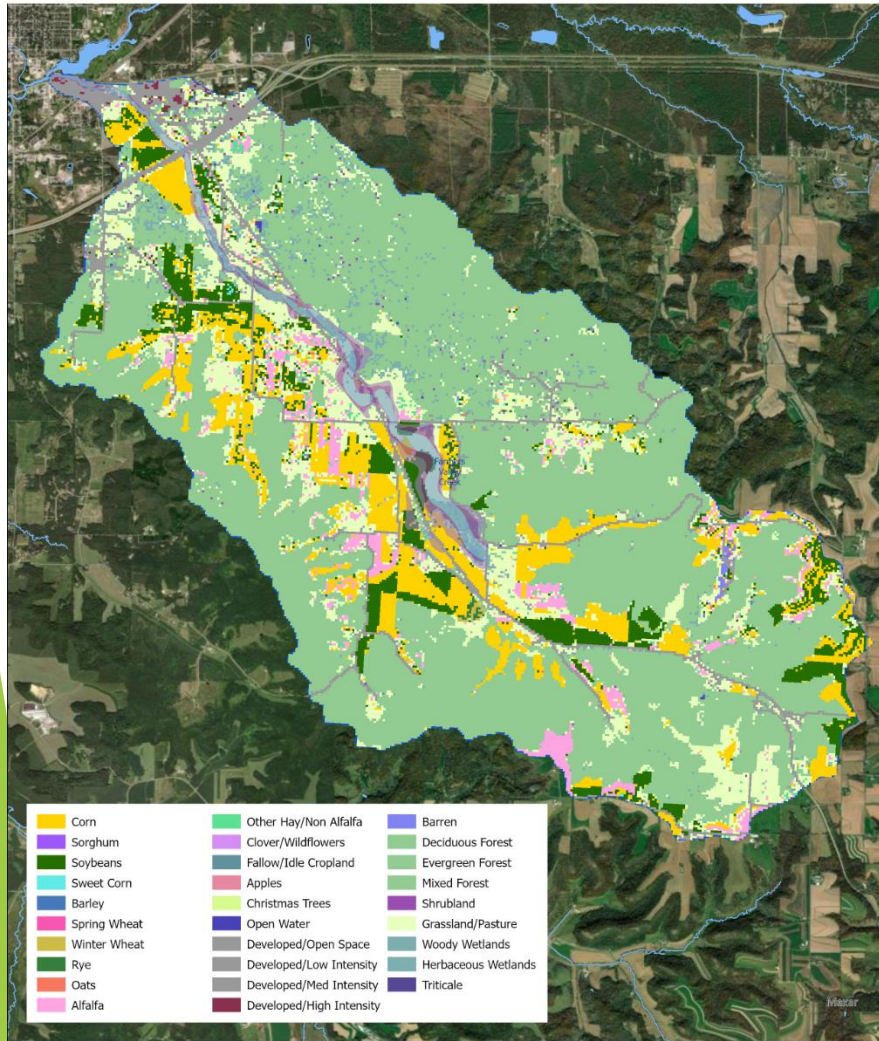
MONROE COUNTY READINESS & RURAL
ECONOMIC OPPORTUNITY ASSESSMENT



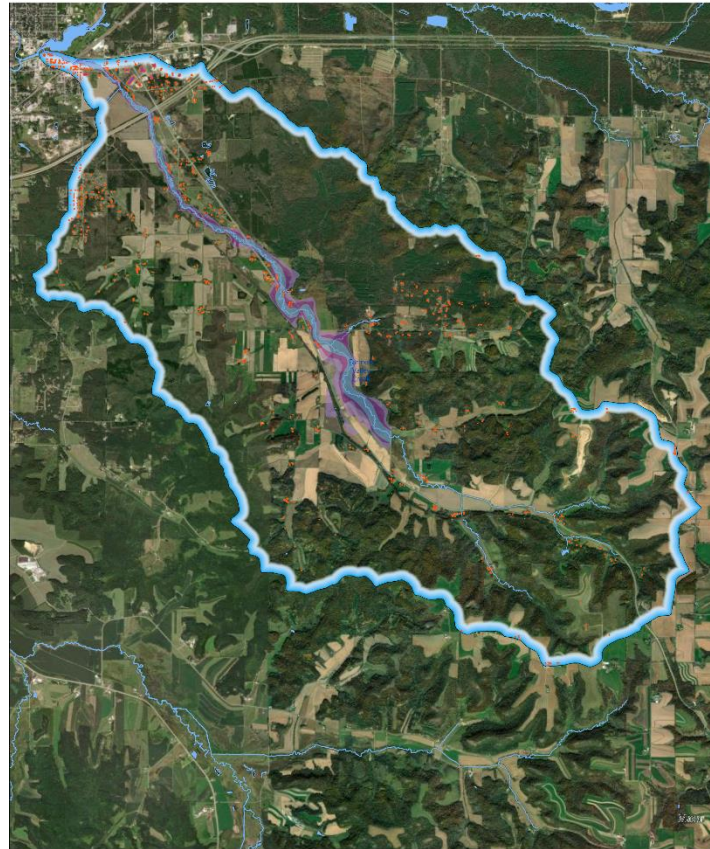
- ▶ USGS HUC12 watersheds
- ▶ FEMA's National Flood Hazard Layer
- ▶ Land Information Office 2019 LiDAR data building footprints
- ▶ USDA 2022 Cropland Data Layer

| | A | B | C | D | E | F | G | H |
|----|---|-------------|-------------|------------------|------------------|----------------------------|-----------------------|---------------------------------------|
| 1 | HUC12_NAME | HUC12_CODE | Total_Acres | Floodplain_Acres | Total_Structures | Large_Structures (>55sq m) | Floodplain_Structures | Floodplain_Large_Structures (>55sq m) |
| 2 | Headwaters Little LaCrosse River | 70400060303 | 33338.3 | 1549.3 | 1936 | 1561 | 47 | 35 |
| 3 | Moore Creek | 70700060102 | 25357.9 | 1352.6 | 1398 | 1071 | 91 | 61 |
| 4 | Headwaters La Crosse River | 70400060202 | 24893.5 | 1561.2 | 1242 | 871 | 52 | 39 |
| 5 | Silver Creek | 70400060203 | 24657.6 | 1558.8 | 825 | 598 | 25 | 11 |
| 6 | Rathbone Creek-Soper Creek | 70400071201 | 24049.6 | 1018.6 | 1196 | 894 | 54 | 38 |
| 7 | Kreyer Creek-South Fork Lemonweir River | 70700031504 | 23680.4 | 4698.5 | 4767 | 3859 | 865 | 666 |
| 8 | Sleighton Creek-Kickapoo River | 70700060101 | 22413.8 | 579.6 | 1658 | 1316 | 43 | 28 |
| 9 | Brandy Creek-East Fork Lemonweir River | 70700031507 | 21553.6 | 4374.51 | 496 | 355 | 33 | 18 |
| 10 | Indian Creek-Bear Creek | 70700031601 | 21440.2 | 3113.3 | 1289 | 993 | 71 | 54 |
| 11 | Poe Creek-Kickapoo River | 70700060104 | 20665.8 | 903.6 | 884 | 674 | 18 | 7 |
| 12 | Indian Creek-Little Lemonweir River | 70700031603 | 20623.3 | 777.9 | 918 | 706 | 10 | 5 |
| 13 | Little LaCrosse River | 70400060304 | 19628.6 | 1002.6 | 1424 | 1163 | 52 | 39 |
| 14 | Lake Tomah-South Fork Lemonweir River | 70700031501 | 19365.3 | 2368.3 | 2798 | 2273 | 132 | 90 |
| 15 | Headwaters Baraboo River | 70700040102 | 19023 | 758.59 | 1158 | 941 | 89 | 67 |
| 16 | Spencer Creek-Big Creek | 70400071202 | 18199.2 | 853.1 | 823 | 610 | 26 | 17 |
| 17 | Bailey Creek-La Crosse River | 70400060204 | 17352.1 | 1186.9 | 2330 | 1761 | 36 | 25 |
| 18 | Water Mill Pond-Mill Creek | 70700031503 | 16085.8 | 1288.8 | 1147 | 921 | 21 | 16 |
| 19 | Farmers Valley Creek | 70400060301 | 14331.4 | 533.3 | 1018 | 789 | 50 | 36 |
| 20 | Clear Creek | 70400071005 | 14003.8 | 1490 | 77 | 51 | 14 | 12 |
| 21 | Tarr Creek | 70400060201 | 13707.5 | 1014.8 | 1182 | 740 | 62 | 43 |
| 22 | Brush Creek | 70700060301 | 13415.1 | 568.4 | 784 | 604 | 35 | 17 |
| 23 | Sand Creek | 70700031505 | 12258 | 953.4 | 1389 | 995 | 4 | 0 |
| 24 | Dandy Creek-Lemonweir River | 70700031508 | 11832.3 | 3370.8 | 487 | 356 | 78 | 50 |
| 25 | Beaver Creek | 70400060302 | 11292.5 | 281.3 | 1963 | 1570 | 22 | 9 |
| 26 | Mud Creek | 70700031502 | 11048.4 | 2030.5 | 1405 | 1136 | 19 | 12 |
| 27 | Town of Sparta-La Crosse River | 70400060306 | 9629.3 | 908.5 | 3915 | 3194 | 202 | 160 |
| 28 | Big Creek | 70400060305 | 9177.1 | 591.8 | 434 | 336 | 18 | 12 |
| 29 | Timber Coulee Creek | 70600010101 | 8561.8 | 103.64 | 430 | 335 | 3 | 2 |
| 30 | Jay Creek-East Fork Lemonweir River | 70700031506 | 7944.4 | 1242.96 | 128 | 92 | 8 | 5 |
| 31 | Seymour Creek | 70700040103 | 7838.3 | 80.95 | 343 | 284 | 4 | 3 |
| 32 | Billings Creek | 70700060302 | 7727.1 | 159.7 | 349 | 251 | 3 | 0 |
| 33 | Stony Creek-Robinson Creek | 70400071007 | 7655.3 | 262.4 | 209 | 160 | 0 | 0 |
| 34 | Roaring Creek-Black River | 70400071205 | 7320.8 | 1512.7 | 214 | 154 | 12 | 6 |
| 35 | Eagle Nest Flowage-Beaver Creek | 70700031402 | 6183.7 | 1698 | 150 | 107 | 11 | 8 |
| 36 | Cook Creek | 70700060103 | 5769.4 | 324.7 | 276 | 208 | 11 | 4 |
| 37 | Fish Creek | 70400060307 | 5255.6 | 0 | 204 | 163 | 0 | 0 |
| 38 | Glenn Creek-Robinson Creek | 70400071006 | 4715.7 | 0 | 263 | 180 | 0 | 0 |
| 39 | Sand Creek | 70400071204 | 4528.6 | 0 | 181 | 127 | 0 | 0 |
| 40 | Upper Coon Creek | 70600010102 | 3741.1 | 0 | 147 | 117 | 0 | 0 |
| 41 | Cutler Ditch-Lemonweir River | 70700031602 | 3264.1 | 11.8 | 133 | 102 | 0 | 0 |
| 42 | Cleaver Creek | 70700040101 | 2029.1 | 0 | 64 | 56 | 0 | 0 |
| 43 | Knapp Creek-West Fork Kickapoo River | 70700060202 | 1775.2 | 0 | 439 | 360 | 0 | 0 |
| 44 | Dutch Creek | 70400060308 | 908.3 | 0 | 33 | 25 | 0 | 0 |
| 45 | Hills Creek | 70700040106 | 411.7 | 0 | 16 | 13 | 0 | 0 |
| 46 | Fountain Creek-Little Lemonweir River | 70700031604 | 256.6 | 0 | 6 | 4 | 0 | 0 |
| 47 | Plum Run-Kickapoo River | 70700060307 | 139.7 | 0 | 6 | 6 | 0 | 0 |
| 48 | Burns Creek | 70400060309 | 19.1 | 0 | 0 | 0 | 0 | 0 |

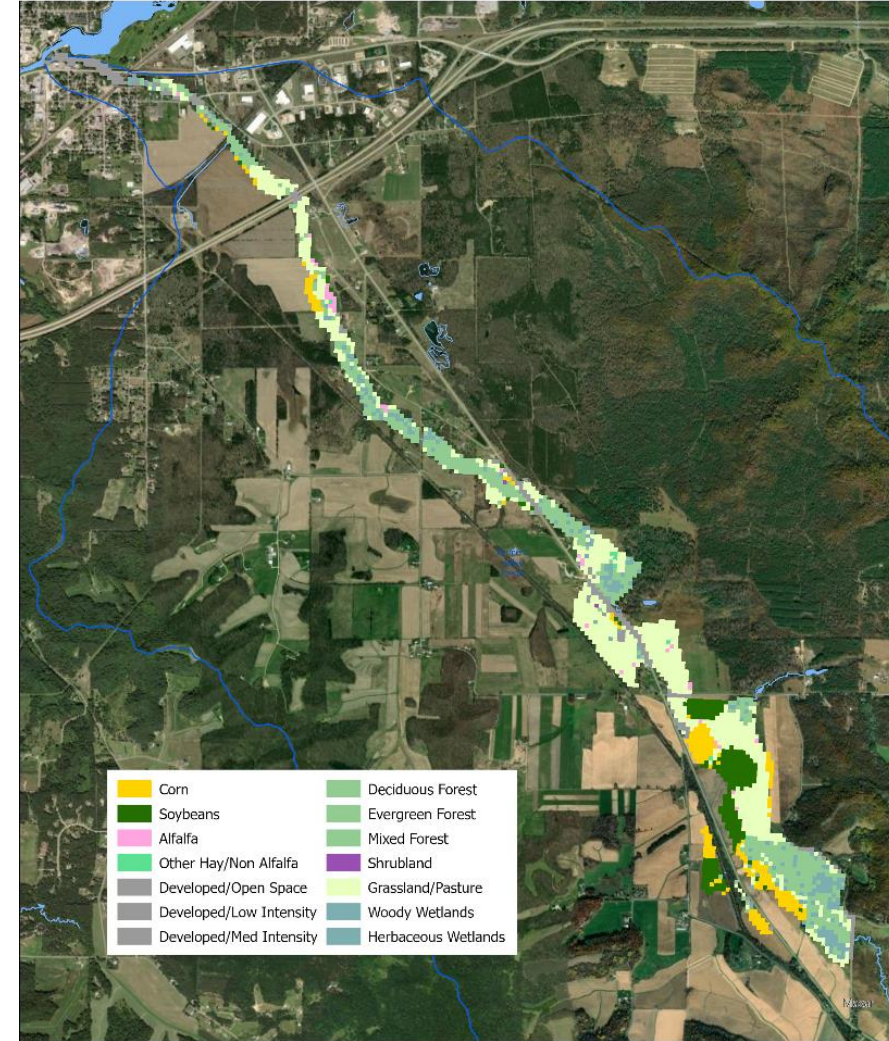
Farmers Valley Creek Watershed FEMA Flood Plain



Farmers Valley Creek Watershed FEMA Flood Plain



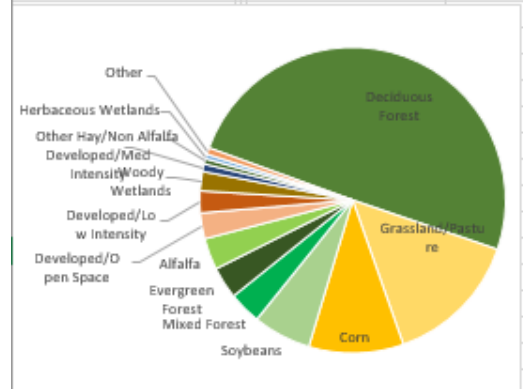
Farmers Valley Creek Watershed FEMA Flood Plain



| | | | | | | | |
|----------------|----------------------|-------------------|----------|------------------------|------|--------------------------------------|-----|
| Watershed Name | Farmers Valley Creek | Total Acres | 14931.37 | Total Structures | 1018 | Structures Over 600sq ft | 789 |
| HUC12 Code | 70400060301 | Flood Plain Acres | 533.30 | Flood Plain Structures | 50 | Flood Plain Structures Over 600sq ft | 36 |

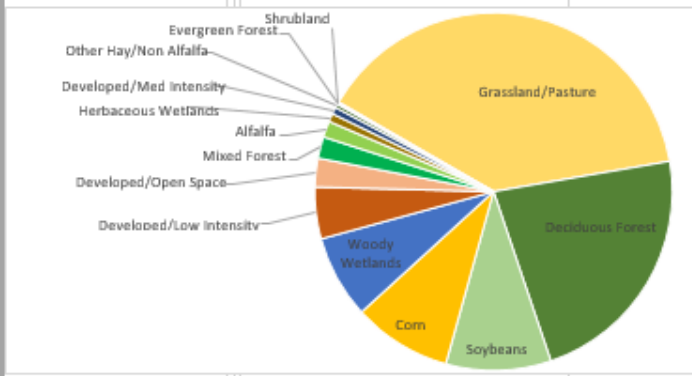
| Watershed Land Cover | | |
|--------------------------|--------|--------|
| Class_Names | Acres | % |
| Deciduous Forest | 7414.6 | 49.66% |
| Grassland/Pasture | 2151.2 | 14.41% |
| Corn | 1496.3 | 10.02% |
| Soybeans | 917.8 | 6.15% |
| Mixed Forest | 513.1 | 3.44% |
| Evergreen Forest | 503.7 | 3.37% |
| Alfalfa | 497.7 | 3.33% |
| Developed/Open Space | 408.3 | 2.73% |
| Developed/Low Intensity | 345.8 | 2.32% |
| Woody Wetlands | 303.6 | 2.03% |
| Developed/Med Intensity | 119.4 | 0.80% |
| Other Hay/Non Alfalfa | 83.4 | 0.56% |
| Herbaceous Wetlands | 74.5 | 0.50% |
| Other | 101.9 | 0.68% |
| Shrubland | 20.9 | 0.14% |
| Barren | 18.7 | 0.13% |
| Developed/High Intensity | 16.9 | 0.11% |
| Rye | 11.3 | 0.08% |
| Oats | 9.3 | 0.06% |
| Winter Wheat | 9.1 | 0.06% |
| Open Water | 5.3 | 0.04% |
| Fallow/Idle Cropland | 3.8 | 0.03% |
| Sweet Corn | 3.6 | 0.02% |
| Sorghum | 0.9 | 0.01% |
| Apples | 0.7 | 0.00% |
| Triticale | 0.4 | 0.00% |
| Barley | 0.2 | 0.00% |
| Spring Wheat | 0.2 | 0.00% |
| Clover/Wildflowers | 0.2 | 0.00% |
| Christmas Trees | 0.2 | 0.00% |

14931.36739
Total Acres



| Flood Plain Land Cover | | |
|-------------------------|-------|--------|
| Class_Names | Acres | % |
| Grassland/Pasture | 207.7 | 38.95% |
| Deciduous Forest | 120.1 | 22.52% |
| Soybeans | 50.7 | 9.51% |
| Corn | 47.6 | 8.92% |
| Woody Wetlands | 40.0 | 7.51% |
| Developed/Low Intensity | 24.9 | 4.67% |
| Developed/Open Space | 13.8 | 2.59% |
| Mixed Forest | 10.5 | 1.96% |
| Alfalfa | 7.8 | 1.46% |
| Herbaceous Wetlands | 4.0 | 0.75% |
| Developed/Med Intensity | 3.3 | 0.63% |
| Other Hay/Non Alfalfa | 1.8 | 0.33% |
| Evergreen Forest | 0.7 | 0.13% |
| Shrubland | 0.4 | 0.08% |

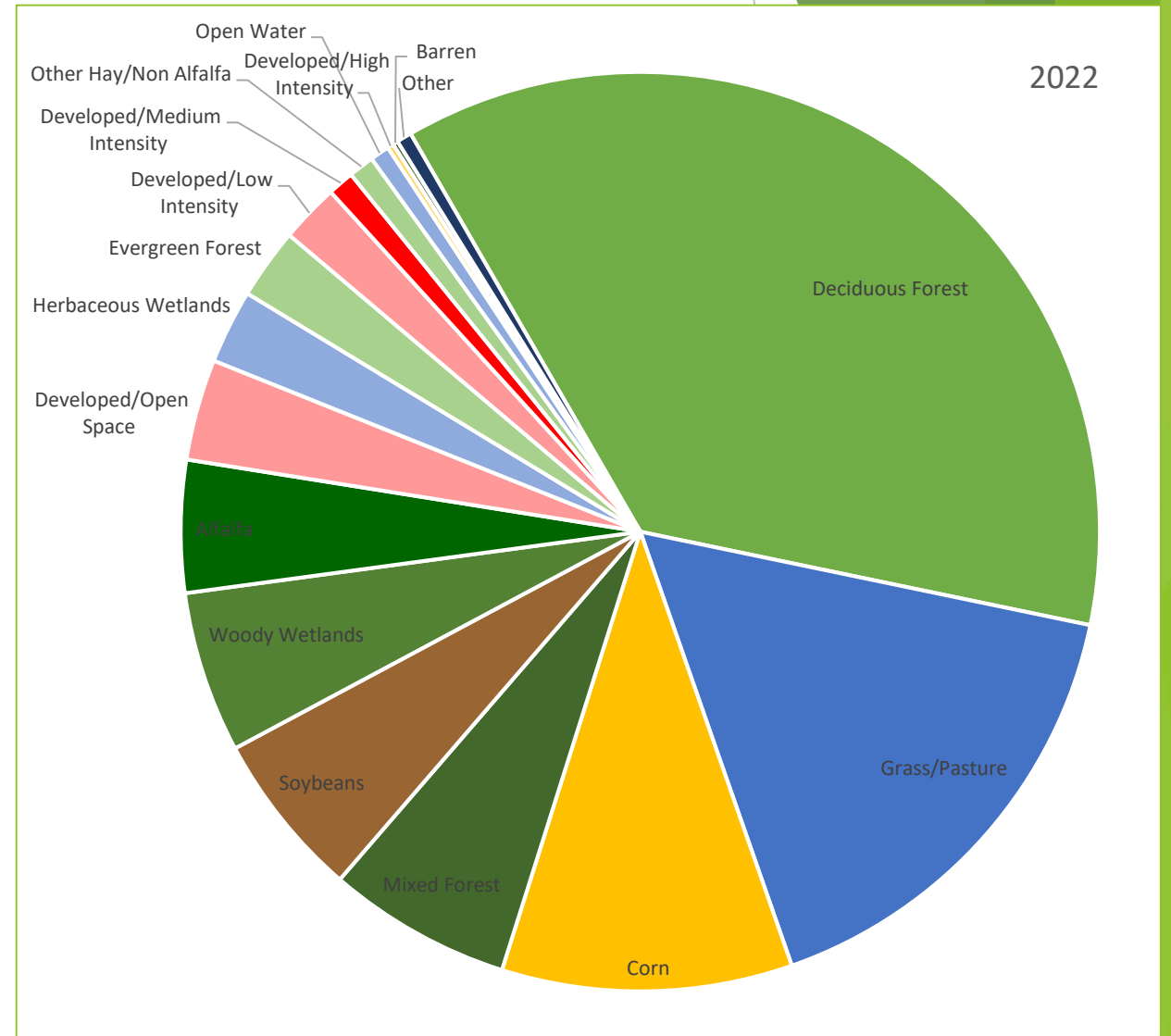
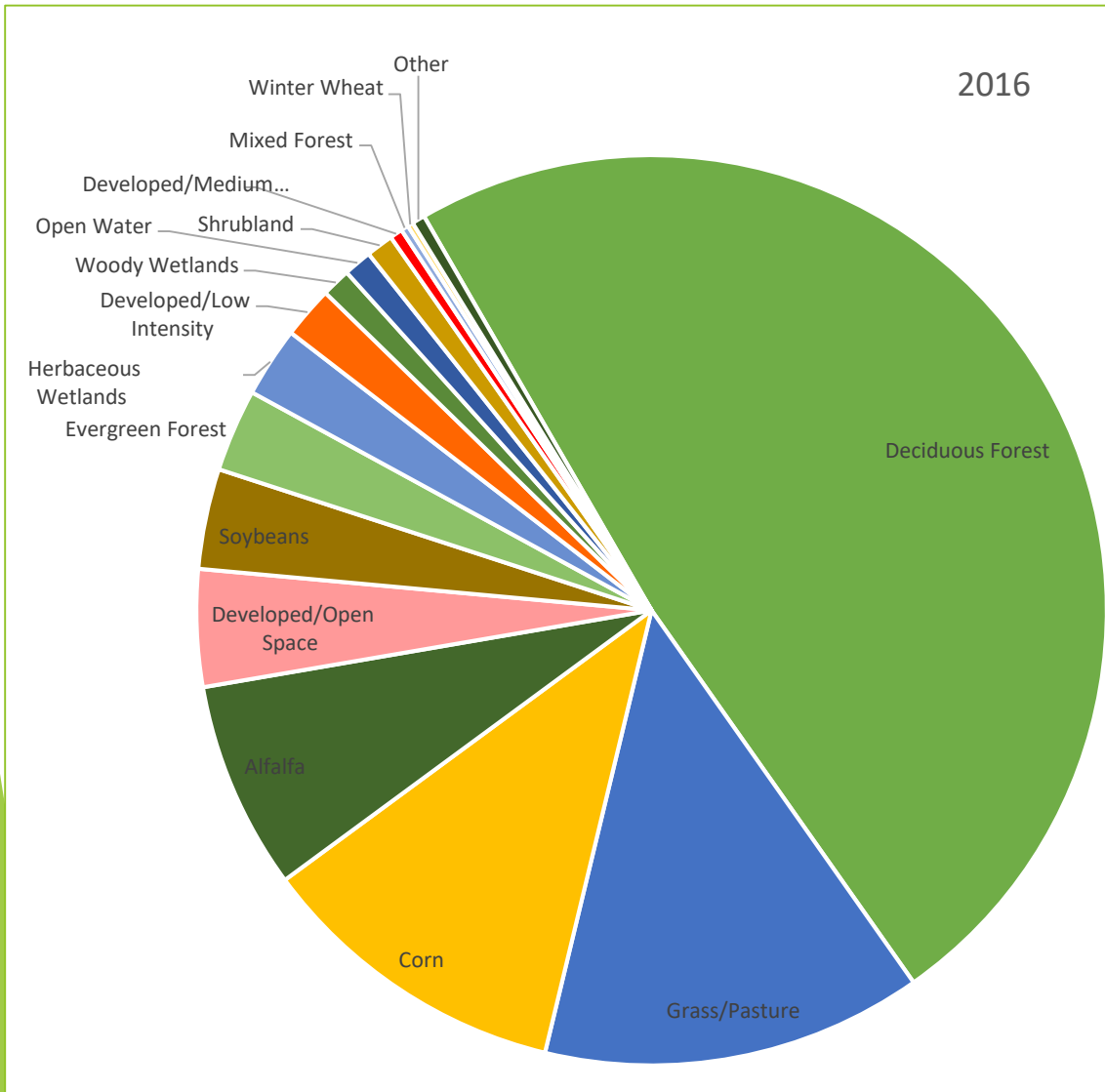
Total Acres 533.30



Structures

1018 Buildings in Farmers Valley Watershed
(789 are over 600sq ft)
50 are within flood plains
(36 of which are over 600sq ft)

Monroe County Land Cover Change 2016 to 2022



Monroe County Land Cover Change 2016 to 2022

| Cover Type | Acres 2016 | Acres 2022 | Change In Acreage |
|---------------------|------------|------------|-------------------|
| Row Crop | 87,626 | 95,214 | 7,588 |
| Pasture | 122,094 | 127,811 | 5,717 |
| Developed | 38,097 | 39,361 | 1,264 |
| Herbaceous Wetlands | 14,503 | 15,129 | 627 |
| Barren | 532 | 1,047 | 514 |
| Other | 42 | 126 | 84 |
| Open Water | 5,845 | 3,949 | (1,895) |
| Shrubland | 5,639 | 811 | (4,828) |
| Forest | 306,897 | 297,827 | (9,070) |

Next Projects

Land use change trends.

Flood Monitoring stations interactive map