

# USING GIS PRODUCTS FOR COMMUNITY ENGAGEMENT

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Dodge County Environmental Services  
November 10<sup>th</sup>, 2022



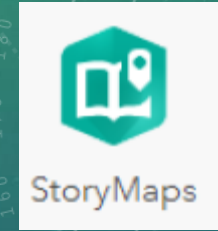
# OVERVIEW

- Dodge County has been able to reach its citizens in new and interactive ways thanks to ESRI products such as StoryMaps, Hub, and Web Maps. This presentation will showcase specific examples of each of these products and how we use them in our county.

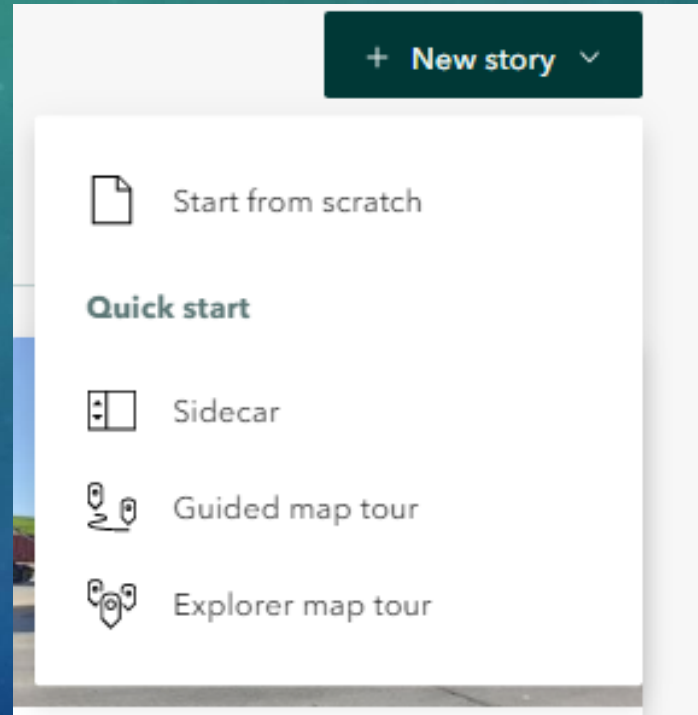
# WHAT IS A STORYMAP?

- An education and outreach tool
- Relunched in July of 2019 as ArcGIS StoryMaps (previously ESRI Story Maps)
- A more interactive version of PowerPoint
- Offers a smoother way to incorporate images, videos, and maps

# STORYMAP CREATION



- Envision your story
  - What are you trying to display?
  - Who is your audience?
- Template selection



# SIDECAR

Hope and Creation, Sacrifice and Loss



## Settlement

In 1856, a lawyer and Mexican War Veteran James George, along with New York financier Curtis Moses platted the Village of Wasioja.



Capt. James George

The two men erected the towns first building, a small, two-room, limestone office. The building would mainly serve as James George law office, but quickly became the center of town affairs.

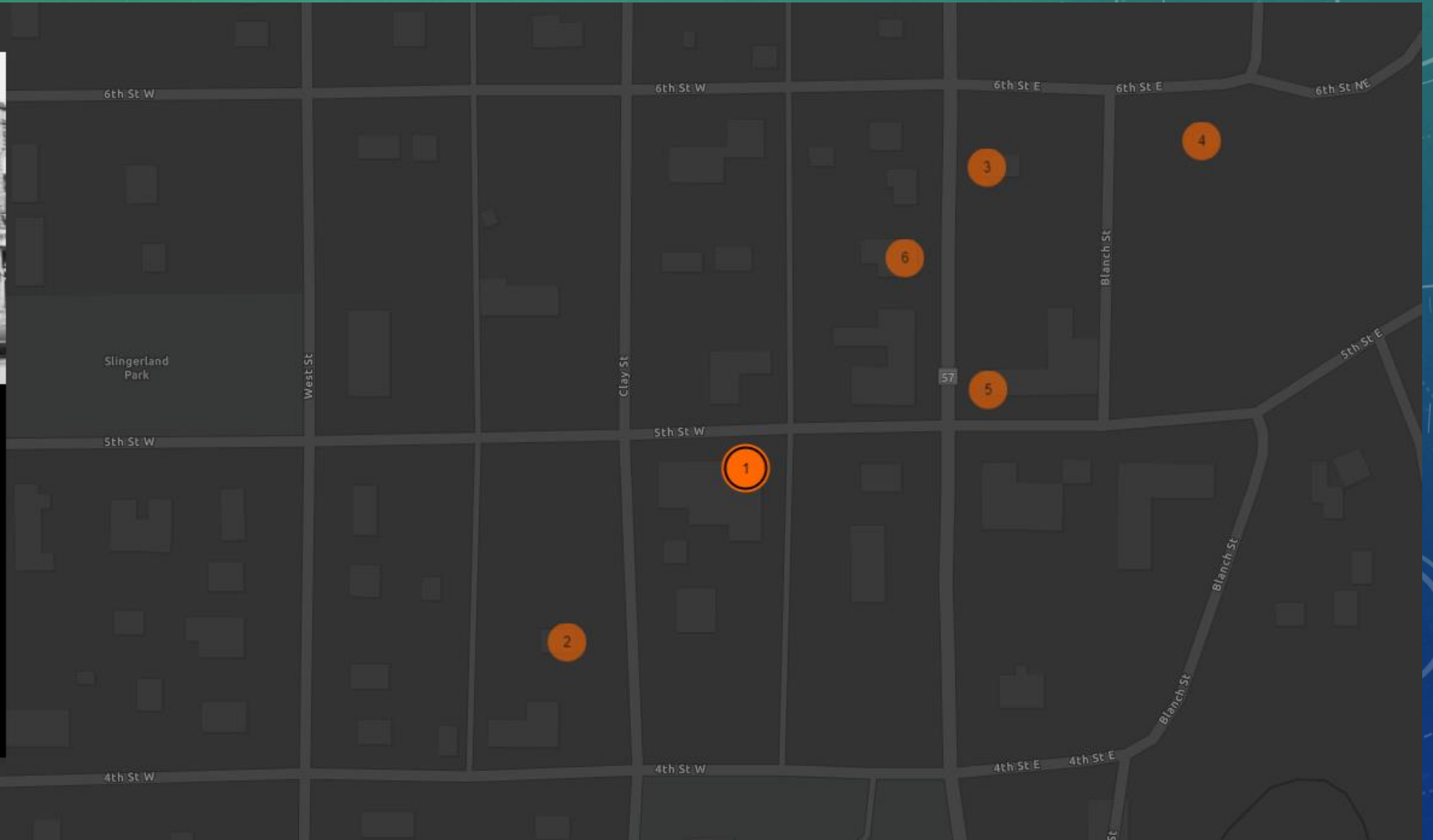


# GUIDED MAP TOUR



## Opera House

Originally built in 1895, this beautiful limestone building has served many purposes for the town. Today, it is home to the melodramas of the Mantorville Theater Company, but the show does not stop once you turn out the lights.



# EXPLORER MAP TOUR



#1 MANTORVILLE WELCOME CENTER



#2 THE ZUMBRO RIVER BRIDGE



#3 THE ZUMBRO RIVER DAM



#4 RIVERSIDE PARK



#5 THE COVERED BRIDGE



#6 GOAT ISLAND



#7 CORDENIO SEVERANCE HOUSE\*



#8 GREEK REVIVAL HOUSE +



#9 SEVERANCE CARRIAGE HOUSE +



#10 MANTOR HOUSE



#11 ROBINSON HOUSE



#12 McDONOUGH HOUSE



#13 ARNOLD BLANCH HOUSE & BARN



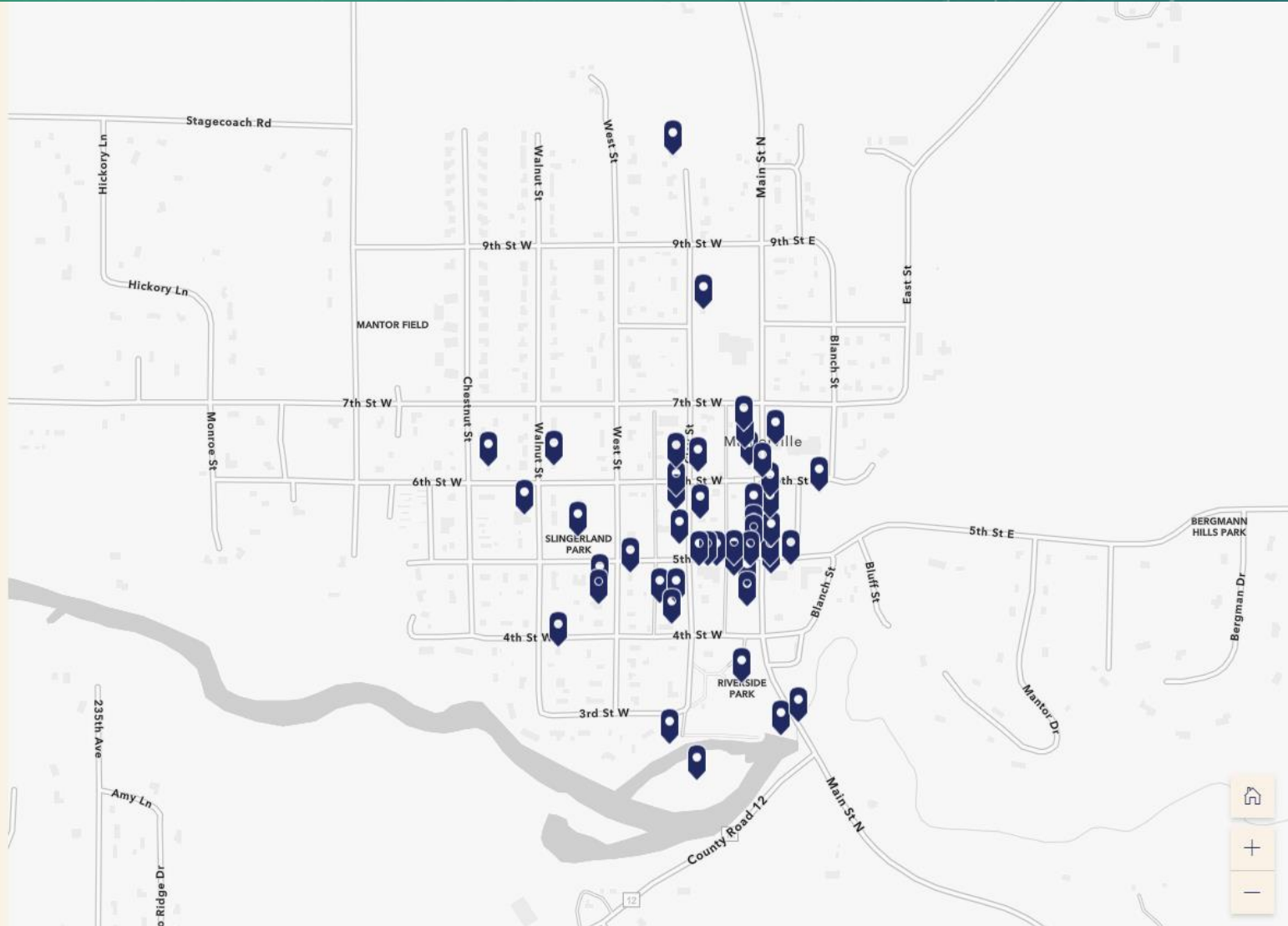
#14 SLINGERLAND PARK



#15 FIRST CONGREGATIONAL CHURCH



#16 PARISH HOUSE



# STORYMAP EXAMPLES AND WHERE TO USE THEM

- Public information on Dodge County website
  - County Facilities:  
<https://storymaps.arcgis.com/stories/eebe6493000942cfb7f10801634e4437>
- Education in schools:
  - Recycling: <https://storymaps.arcgis.com/stories/0a6236f407a8475d93b494abadd700b3>
  - Water Quality:  
<https://storymaps.arcgis.com/stories/7d8f14a56c37468ebc2ebda7a273ab86>
- Preserving and sharing history online:
  - History of Wasioja:  
<https://storymaps.arcgis.com/stories/72099c64a25744ebb729a5e0e771dee2>
  - Mantorville Walking Tour:  
<https://storymaps.arcgis.com/stories/2da0da93288e4076b3116a5f2c079620>
  - Linked on the Dodge County Historical Society website



# Wasioja Historic District

In 1971, Wasioja was designated a state historic district. Four years later, the National Register of Historic Places recognized the district. In total, the district includes the seminary ruins, civil war recruiting station, schoolhouse, church, limestone house, limestone kiln, and creamery.



Wasioja Limestone Kiln

## National Register of Historic Places (...)

The National Register of Historic Places is the official list of the Nation's historic places worth...



▶ 0:02 / 0:11



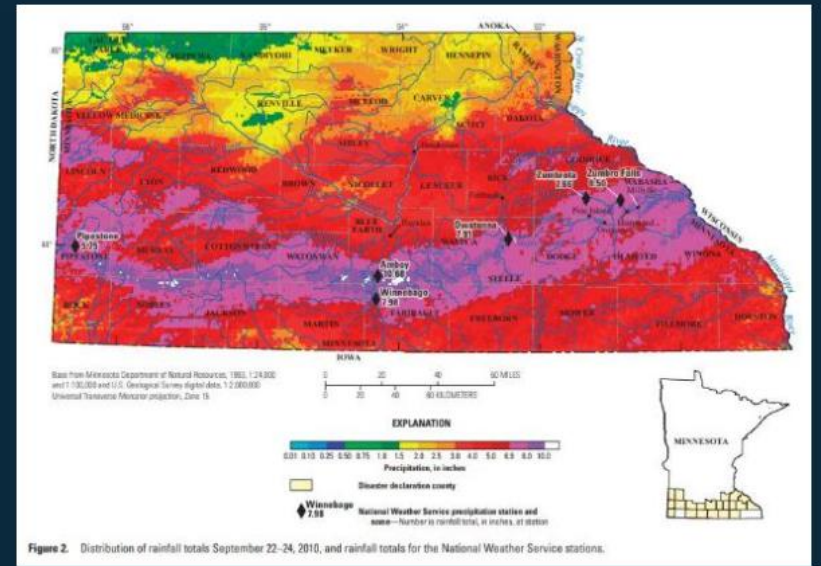
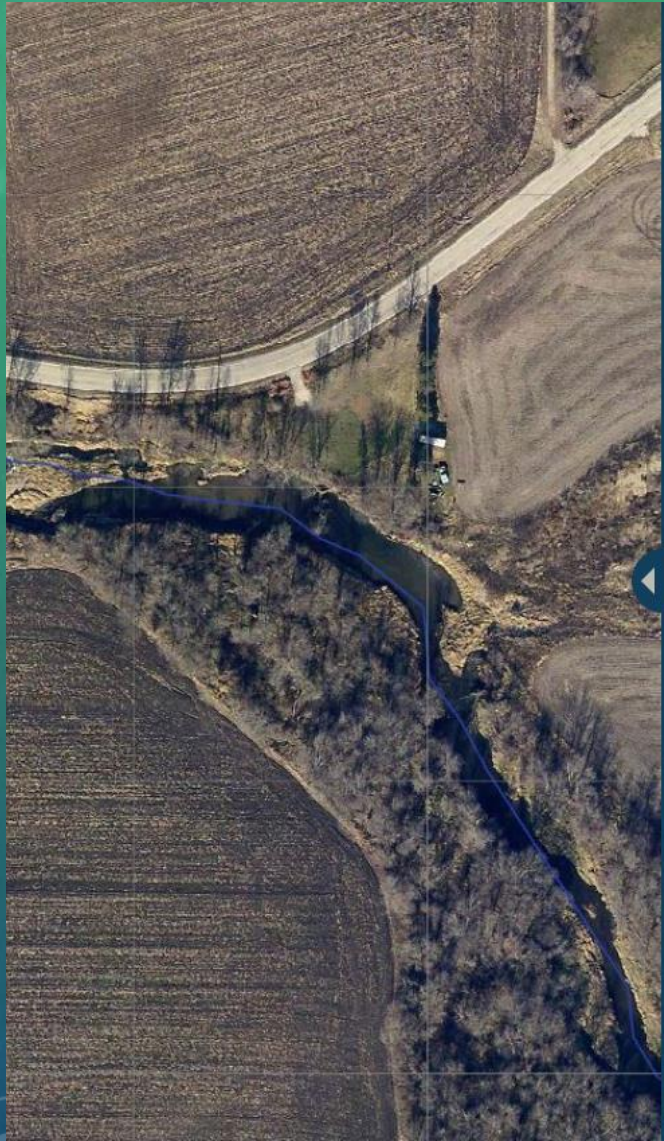


Figure 2. Distribution of rainfall totals September 22–24, 2010, and rainfall totals for the National Weather Service stations.



View from Country Road 24, 2007

# STORYMAPS CONCLUSION

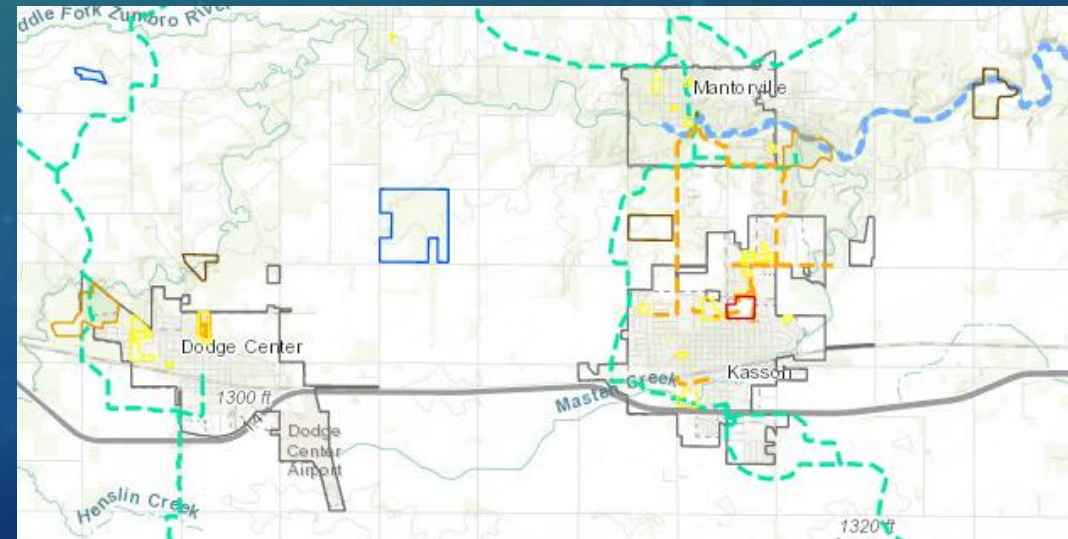
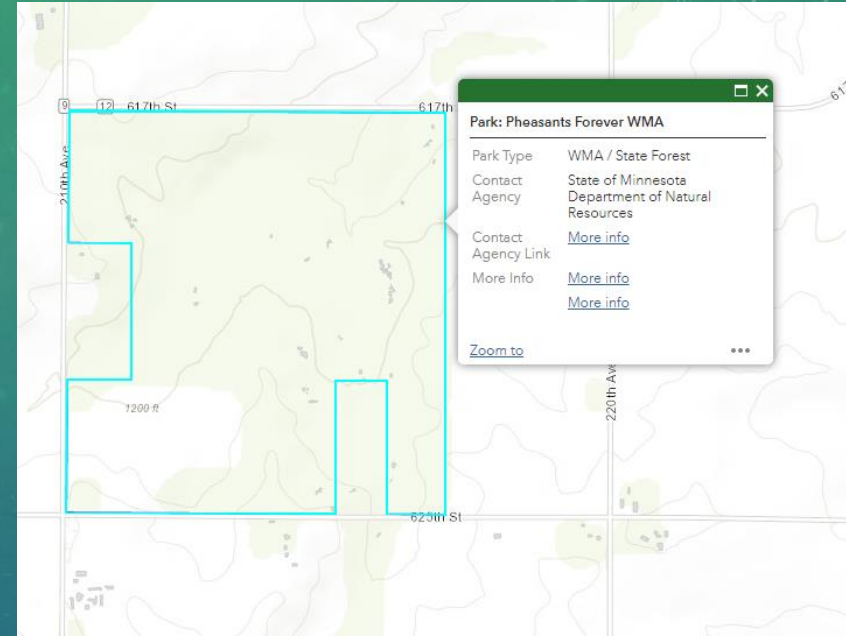
- Pros:
  - Very universal
  - Easy to learn
  - Frequent updates
- Cons:
  - Customizing can be difficult (theme builder)
  - Relies heavily on photographic content

# WHAT IS A WEB MAP?

- An interactive and customizable web based map that is linked directly to your desktop layers.

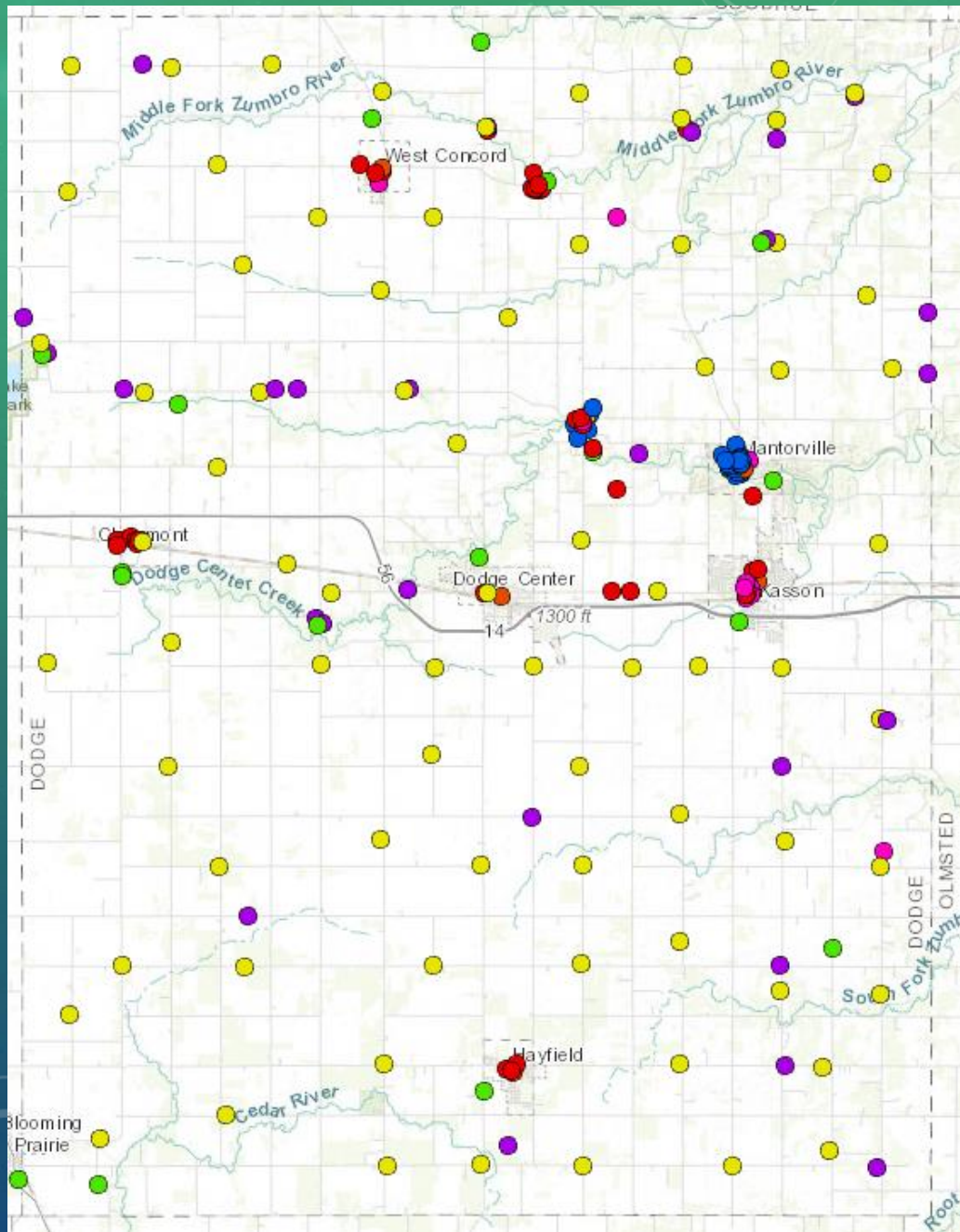
# WEB MAP CREATION

- From our office, we communicate with our GIS specialist to create a web map from an existing layer or layers.
- We highlight what attributes we want visible and send a layer file to preserve symbology



# WEB MAP EXAMPLES

- Historic Places of Dodge County:  
<https://maps.co.goodhue.mn.us/portal/apps/webappviewer/index.html?id=d6f313ce68324bb6a6178cc39cb5b44e>
- Dodge County Recreation:  
<https://maps.co.goodhue.mn.us/portal/apps/webappviewer/index.html?id=50d8b3c424c44430be18eced7259e0df>
- Septic Contractor Map



Prepared in cooperation by the Dodge County Historical Society, Dodge County Environmental Services and the Goodhue County GIS Office

### Hubbell House

**LOCATION:** 502 N Main St, Mantorville, MN 55955

**STATUS:** Public

**TYPE:** Historic, District, Architecture

**PHYSICAL DESCRIPTION:** The present stone building (1857) replaced an earlier log structure (1854) of undistinguished architectural merit. The structure is three stories in height. Originally the building had a two-story piazza on the south and west sides; however, this was destroyed in 1934 and has not been replaced to date. The stone facades are in excellent condition, and are constructed of rectangular blocks of locally quarried limestone. The interior of the building has been modified to serve as a restaurant with living quarters on the second floor. The third floor is presently vacant. Originally the lower floor functioned as lobby and saloon with ten rooms on the second floor and seven on the third floor.

**SIGNIFICANCE:** J.B. Hubbell opened the first hotel, a 16'x24' log structure in 1854. This was replaced by the present stone building in 1854. Now a world-famous hotel, it retains that warmth and charm within its walls that greeted the weary traveler of a century ago. Among the personages who have signed the register are world famous surgeon, Dr. W.W. Mayo, Horace Greeley, and Dwight D. Eisenhower.

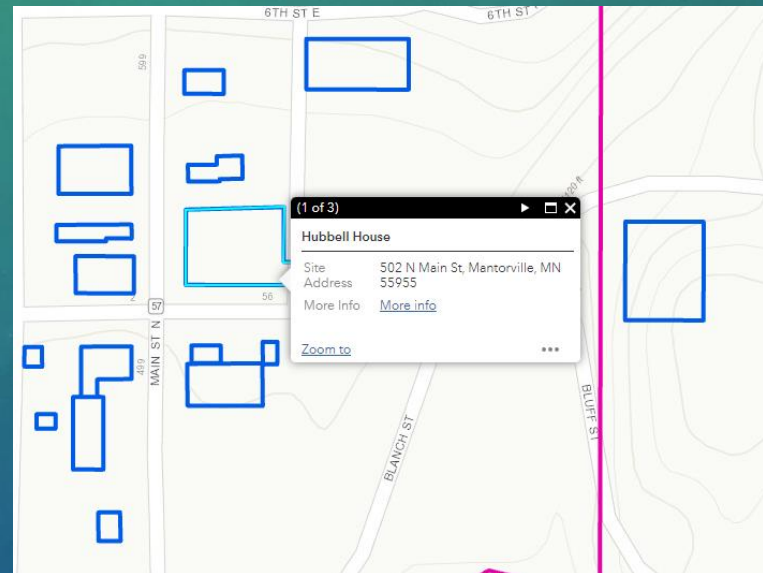
#### OTHER RESOURCES:

<https://catalog.archives.gov/id/93201661>

[http://www.mantorville.com/City/wp-content/uploads/2020/05/Walking-Tour-Booklet\\_original.pdf](http://www.mantorville.com/City/wp-content/uploads/2020/05/Walking-Tour-Booklet_original.pdf)

#### PROPERTY PICTURES:

See the next page for photos...



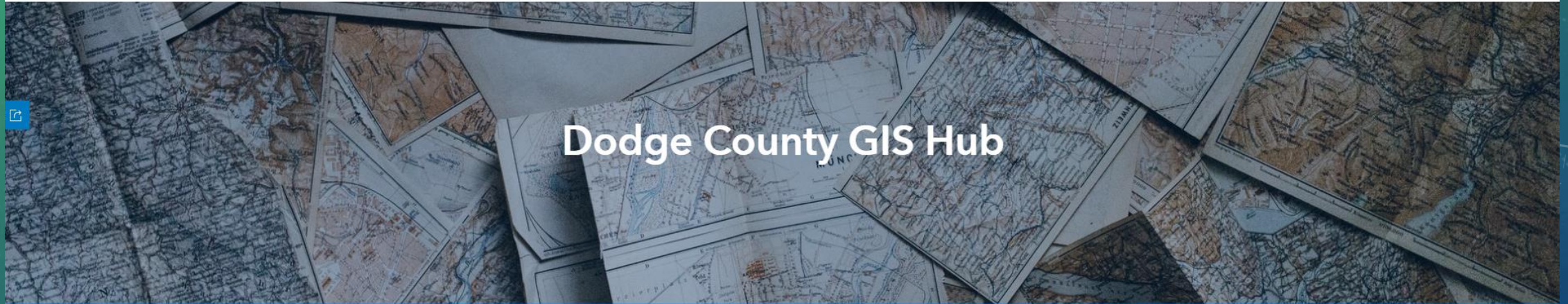
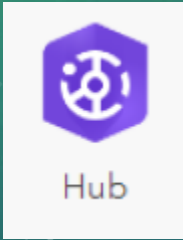
Hubbell House, 2021

# WEB MAP CONCLUSIONS

- Pros
  - PDF Linking
  - External URL Linking
  - Customizable design
  - Ability to have many layers on one map
- Cons
  - Changes made to ArcPro layers will not immediately reflect on web maps
  - Must be knowledgeable in ArcPro



# WHAT IS HUB? • Interactive and customizable website that houses ESRI apps like StoryMaps and Web Maps.



Dodge County GeoHub is a customized website for exploring GIS web mapping applications, link to historic plats, submit data requests, and access County stories through Story Maps.

## Interactive Maps

Click the images below



Parcel Viewer



Public Lands Survey Points



Property Information



Adopt a Highway

# HUB CREATION

- Again, our office worked with our GIS specialist to create a blank hub for us
- During creation think about...
  - What are you trying to display?
  - Will more than one person be able to edit?
  - Who is your audience?
    - Public
    - Internal Staff
    - Non-GIS users

# DODGE COUNTY GIS HUB EXAMPLE

- <https://dodge-county-hub-goodhueco.hub.arcgis.com/>

## Story Maps

ESRI Story Maps combine authoritative maps with narrative text, images, web apps, and multimedia content. Story Maps engage the community, educate decision-makers, and connect with stakeholders.

Click on the links below to learn more about Dodge County Stories



Mantorville's Historic  
Walking Tour  
Trail to the Past, Road to the  
Future

Explore



Hope and Creation,  
Sacrifice and Loss  
The rise and fall of one of SE  
Minnesota's most influential  
settlement towns

Explore



Mantorville's Haunted  
History Tour  
Explore the historic and  
paranormal sites of Mantorville,  
MN

Explore



Dodge County Cemetery  
Tours  
Discover the stories behind the  
people buried in Evergreen,  
Wildwood, and Concord

Explore



# HUB CONCLUSIONS

- Pros
  - Houses all ESRI apps in one place
  - One Hub can serve many functions
  - Easy to navigate for public use
- Cons
  - Moderate learning curve for editing
  - Could be more customizable
  - Particular on linking videos, photos, and ESRI apps

# FINAL THOUGHTS

- I started using these apps on a free trial I created through my personal email. Showed an example from my free trial to our GIS specialist and was given permission to access the AGOL.
- The best way to learn these apps is just by doing it. Click around and figure out what all the buttons do even if you do not have a final idea in mind.
- If you get hung up, ESRI and YouTube have resources, but I encourage troubleshooting on your own.
- You might have to revisit a site or topic many times before you have a final product.
- Inspired by previously existing Olmsted and Goodhue products.

# FINAL THOUGHTS

- ESRI Apps have opened the door to modernizing and digitizing resources we have for the county.
- Creating a final draft for these apps can take time, it usually takes a willing individual to make sure the project is published.
- ESRI has many helpful links to help you while you are creating or editing these apps.

# QUESTIONS?

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