Web GIS Project: Montana Water Usage

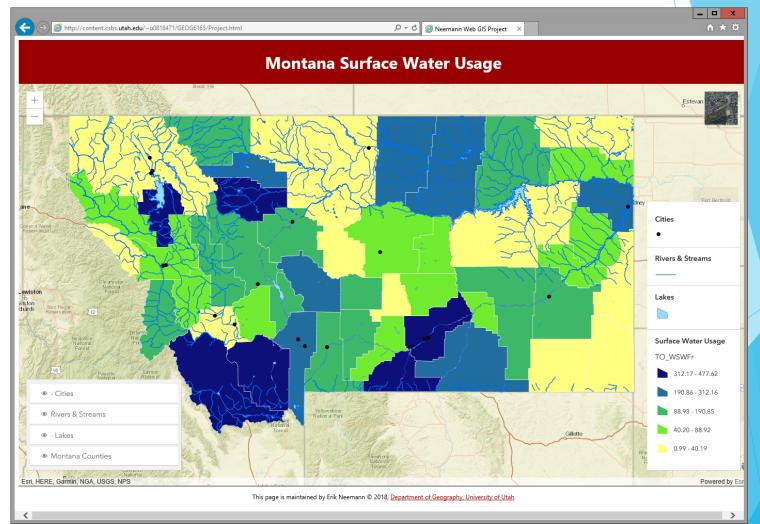
Erik Neemann 18 Apr 2018

Overview

- Geographic Area
- Service Types and Functionality
- Implementation Challenges
- Lessons Learned

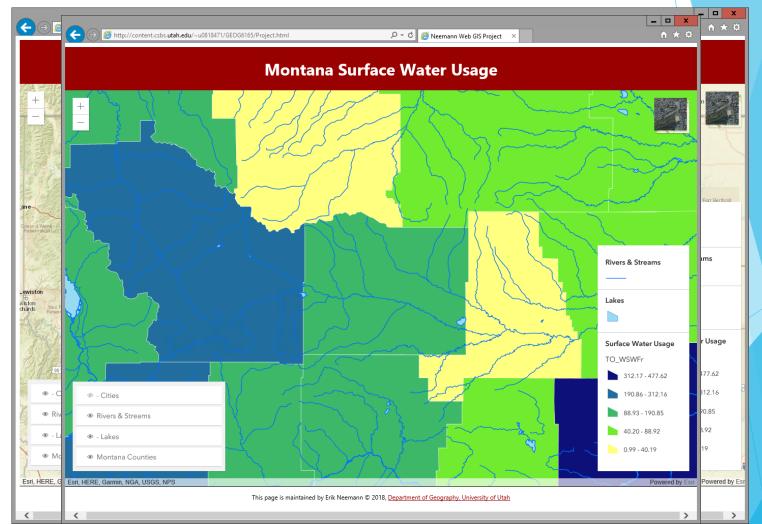
Geographic Area

- Encompasses the state of Montana
- County boundaries outlined within the state
- Zoom-in/out to desired level



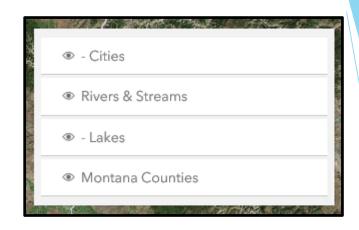
Geographic Area

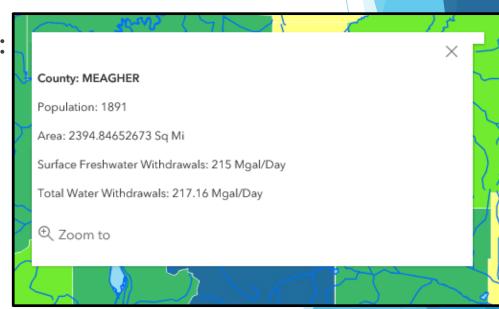
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Services Types and Functionality

- 4 Map Services
 - Montana Counties
 - ► Montana Streams & Rivers
 - Montana Lakes
 - Montana Cities
- Query Function
 - Pop-up window on-click provides:
 - County Name
 - Population
 - Area
 - Surface Freshwater Withdrawals
 - ► Total Water Withdrawals
- Layer List on/off capability
- Basemap toggle from "Streets" to "Satellite"

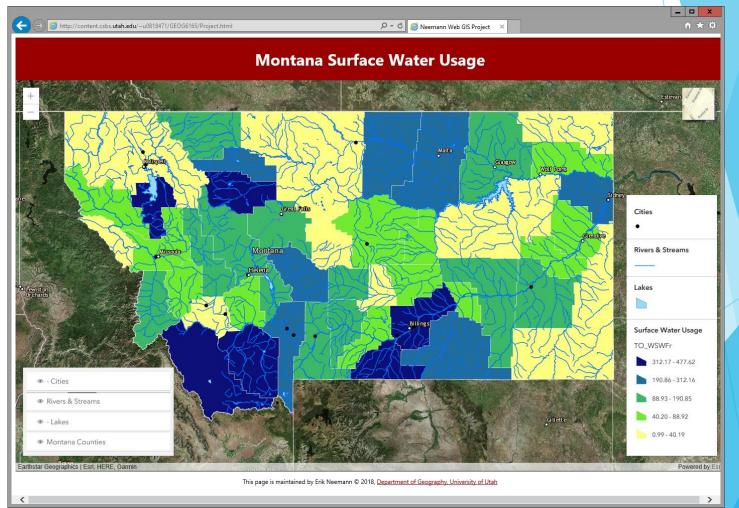




- Formatting header/footer with CSS
- Failed addition of live-updating radar layer
 - Confusion on layer type???:
 - FeatureLayer
 - DynamicFeatureLayer
 - MosaicLayer
 - RasterLayer
 - WMSLayer
- Labels not displaying on Cities or Counties
- More sophisticated query function

Lessons Learned

- Keep it simple
- It takes time to troubleshoot, format, clean up
- Expect unexpected problems



Questions?

Sources:

- Montana County Borders: http://ftp.geoinfo.msl.mt.gov/Data/Spatial/MSDI/Ad ministrativeBoundaries/
- Montana Towns:
 <a href="https://mslservices.mt.gov/Geographic_Information/Data/DataList/datalist_Details.aspx?did={81C76ED6-OA8E-4F08-A210-C92C67A8F859}</p>
- Montana Streams & Lakes:
 <a href="https://mslservices.mt.gov/Geographic_Information/Data/DataList/datalist_Details.aspx?did={4F05B659-42F2-4F61-8D36-F132FC9AF99B}</p>