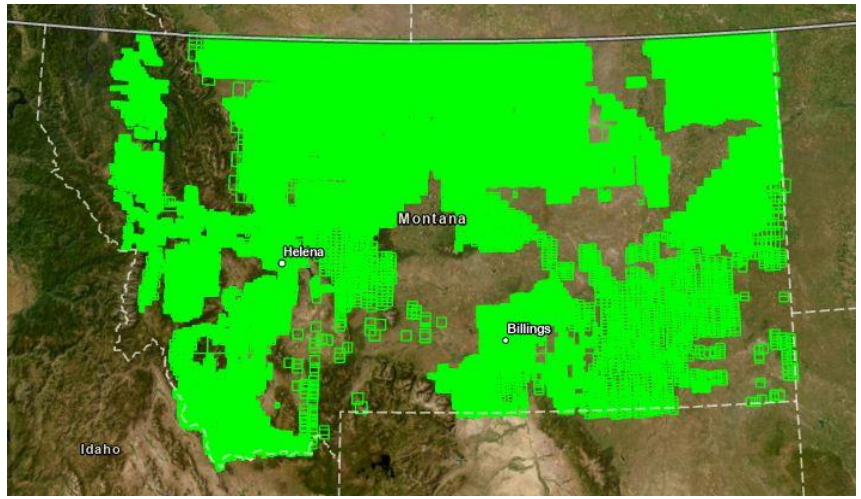
Montana Department of Natural Resources and Conservation

Q1. Describe the aerial imagery your agency has and how it is made available

DNRC

- Water Resources Survey (WRS) Imagery (Late 1930s – 1970s) ~36,000 images
- USDA 1979 Imagery ~7,500 images
- UAS-Derived Orthomosaics ~ 500 images



Historic Imagery

- WRS and 1979 Imagery Web Services
  https://gis.dnrc.mt.gov/imagery/rest/services/Historic
- Largescale public requests by ext. hard drive.

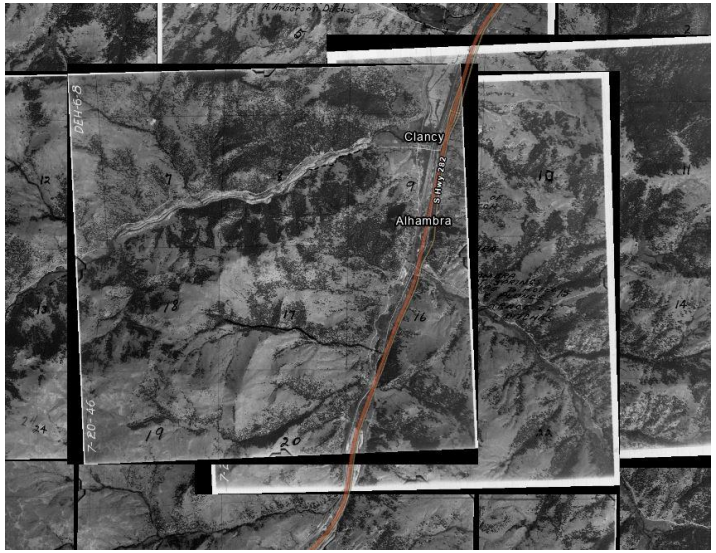
UAS

- Currently almost entirely internal use. Pix4D(Web) or direct connects to .tifs

Q2. What are your top 2 to 3 business uses for imagery?

Historic Imagery

1. Water Rights Adjudication
2. Trust Lands -Historic Land Use for internal purposes (Roads, Bridges, Dams, Easement)



UAS

1. Dam inspections
2. Volume Calculations of material
3. Forestry applications
4. Documenting Cultural Resources

Q3. What are your agency's challenges with imagery (top 2 to 3 pain points)?

1. Volume of imagery size and number of images (40,000 +)

2. Data inconsistency (naming, years, lack of attributes)

3. Older technology. Image Server serving out mosiac dataset, internal file server storage.

Q4. What would you want to see out of a state imagery program (your vision)?

- Single access point for acquisition– could seaerch many different imagery datasets based on intersection with their footprints
- Storage with room to grow. We are currently about to dive into cloud storage for our GIS imagery/other media. If something analagous but centralized existed that the right contributors had access to, that would be powerful
- Simple flexibility for recognized contributors. (Not too many hoops to jump through to get one's data into the common pile)

Thank you!