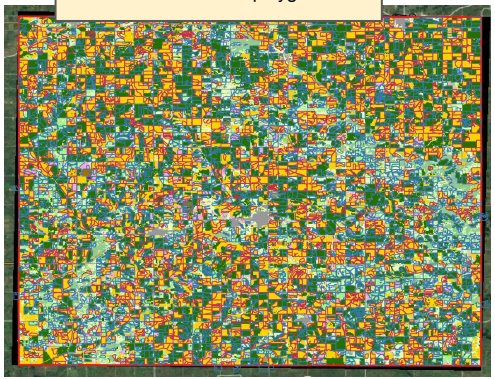
Conceptual Workflow: CLU Data Pre-Processing

This is the conceptual workflow for pre-processing the CLU & CDLS data that will be used in the model.
Adair County, IA

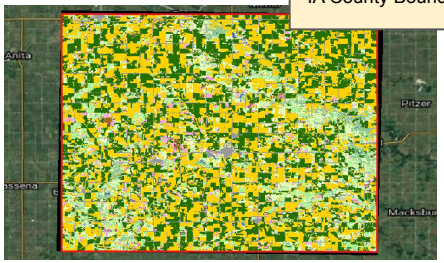
Clip CLU data to Adair, IA County Boundary

Zonal Statistics: summarize majority, & mean crop types from CDLS raster via CLU polygons

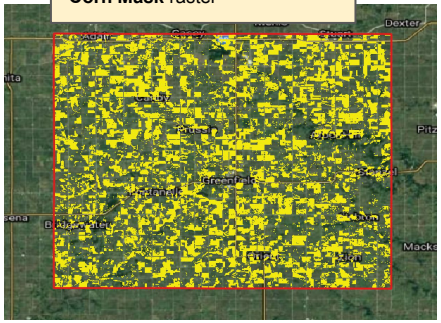


Export **Majority Corn CLU polygons**

Clip 2017 CDLS to Adair, IA County Boundary



Reclassify 2017 CDLS in Adair, IA County to generate a **Corn Mask** raster

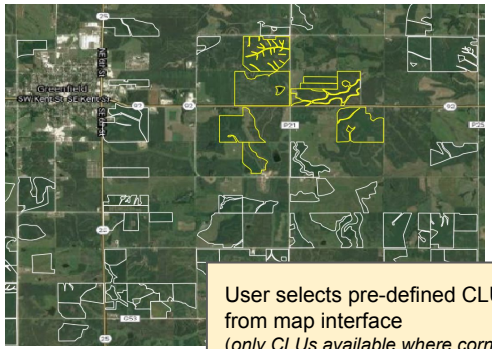


Outputs for Adair County, IA:

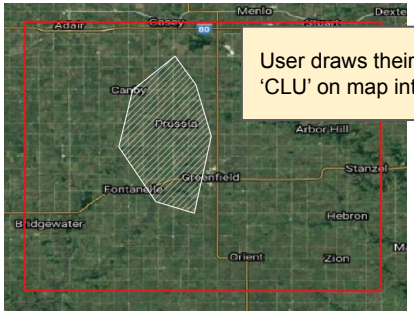
- CLU polygons where corn was the majority crop in 2017
- Corn mask raster

Conceptual Workflow: Define “Area of Interest” (AOI) as Input to Model

This is the conceptual workflow for how an area is defined for input to the analytical model.

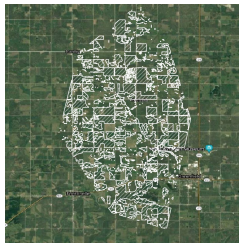


User selects pre-defined CLUs from map interface
(*only CLUs available where corn was majority crop in 2017*)



User draws their own custom ‘CLU’ on map interface

Custom ‘CLU’ is clipped to 2017 Corn Mask



Check for Data Availability @ AOI:

-Sentinel-2
< 20% (?) Cloud Cover

-MODIS Terra Vegetation Indices 16-Day Global 250m (only 500m is available in AWS)

-NAIP

(continued on next slide)