What is the Irrigated Lands Designation Dataset?

- GIS Layer delineates all land use in the Valley and designates irrigated lands in a given year
- Used in conjunction with METRIC ET data to determine ET coming from irrigated lands vs natural or non-irrigated ET
8 Years of data across a 30 year span to be digitized
Two primary components to the process

Land Use Delineation

Irrigation Status Designation
Land Use Delineation

• Gather pertinent data
  – NAIP or other aerial Imagery
  – FSA Common Land Use (CLU) data
  – Tax lot data

• Digitize line work delineation based on land use type
Irrigation Status Designation

- Landsat Imagery (LS 7 and LS 8 for 2015)
- USDA Cropland Data Layer (CDL)
- Active Water Rights data
Landsat data offers temporal images throughout the growing season:
- Each satellite circles past every 16 days.
  Data is represented in 30m pixels.

- The number of images available is limited by two main factors:
  - How many satellites operating in a given year.
  - Cloud cover on days satellites pass over.
Irrigation Status Designation

3 Status Designation Categories
- Irrigated
- Semi-irrigated
- Non-irrigated
Acres of Irrigated Land Use for 2015

• Irrigated - 422,857 Acres
• Semi-irrigated - 193,788 Acres
• Non-irrigated - 837,519 Acres
Pivot Transitions
Questions?