Agriculture: Irrigation

CRAC Meeting
December 17, 2014

What Is Included?

- Hardware (nozzles, gaskets, hubs, etc)
  - Primarily based on RTF work
- SIS
  - BPA & RTF working on standard protocol for Jan meeting
- LESA – Low Energy Spray Application
  - Formerly known as Low Energy Precision Application
  - New measure for 7th Power Plan
What is LESA?

- Applying water 12-18” above ground surface
- Low nozzle pressure (~6 psig)
- Water savings 15% average over season compared to MESA
- Complementary to SIS

Expected Costs & Savings

- Could potentially replace all center pivot irrigation systems on flat-slope field
- Preliminary analysis from BPA & WSU
  - Per center pivot system - ~20 MWh
  - Regional potential – ~20 aMW
  - Incremental cost - $2500/system