



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