Hatch (Reza) – Integrated Cropping Systems (ICS)

- Practical approaches for reduced tillage and soil improvement
  - Continues work on reduced tillage in furrow-irrigated systems (John Deere NT Planter, Truax NT Grain Drill, Orthman, biochar, grazing)

- Cover cropping strategies appropriate for western CO crop systems

- Evaluate potential of high value new crops for western CO
  - Pulse crops (winter pea, lentils, chickpea, mung bean, faba bean, cowpea)
  - Oilseed crops (safflower, camelina, sunflower, hemp)

- Double cropping systems in western Colorado
  - wheat-sorghum, wheat-millet, wheat-forage brassicas (turnip)
Hatch (Perry) – Irrigation and Water Resources (IWR)

- Evaluation, Improvement and Adoption of Efficient Irrigation Tech
  - Nonstructural (WISE) and Structural (Drip Irrigation)
- Improvement of Furrow Irrigation on the Western Slope
  - Soil Moisture Monitoring and AutoFlood to reduce tailwater
- Evaluation of practices to sustainably develop conserved consumptive use (CCU) in Western CO
  - CU rates of hay/forage crops under deficit/split-season irrigation
- Development of multi-spectral and remote sensing approaches to estimate actual ET (AET) – MSR5, remote-sensing
Other Priority Areas for Research and Engagement

- Climate-Smart Agriculture (Necessarily another Hatch Project)
  - Oilseed crops to produce SVO feedstock for diesel substitute
  - Mobile oilseed crushing press operational again
  - Looking for other opportunities … solar, carbon sequestration
- Farm management software (FarmLogic)
- Participatory Research and Engagement
  - Seth Urbanowitz (Extension Agronomist Office at WCRC)
  - Advisory Council Meeting in February 2018