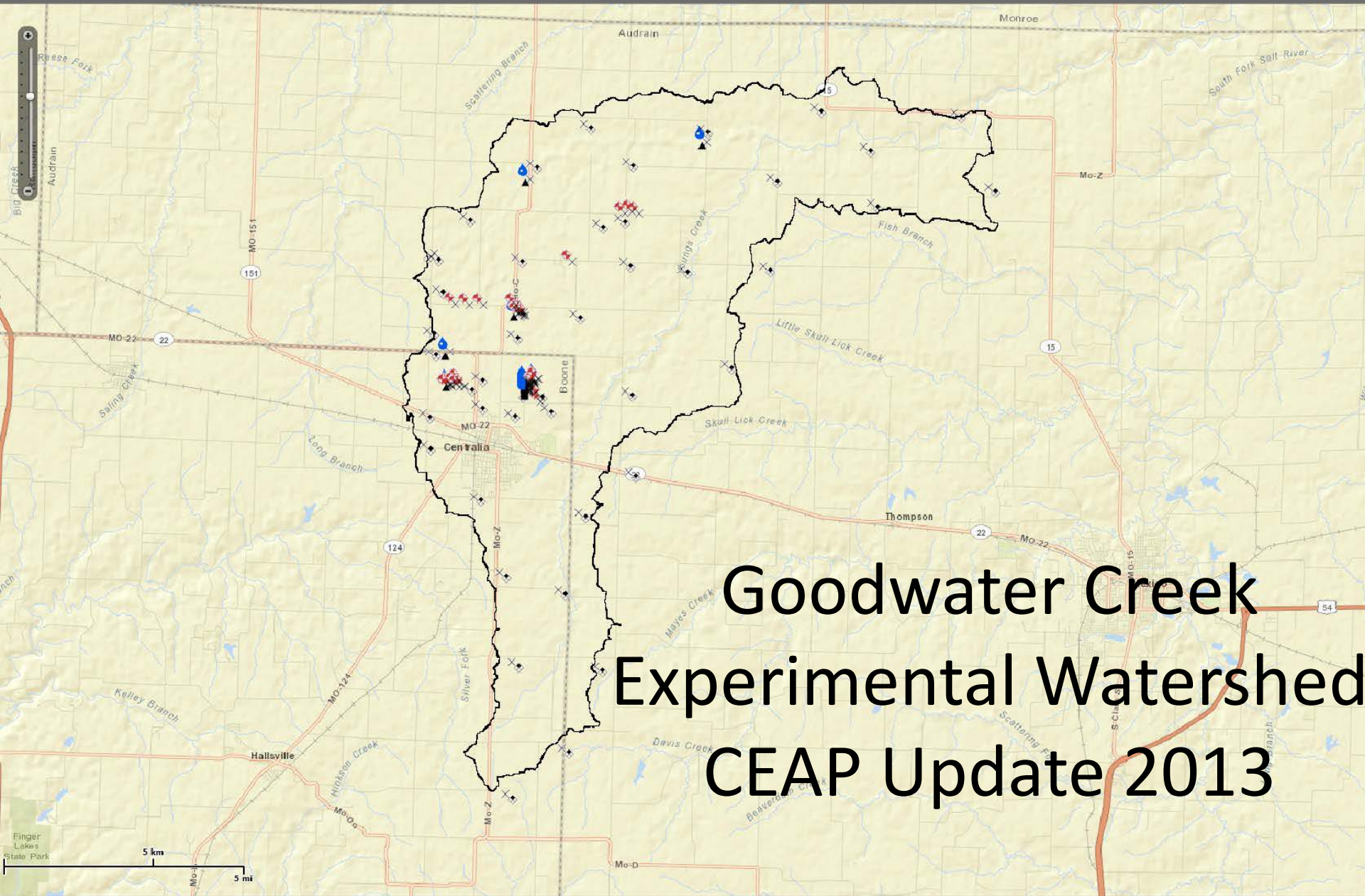


USDA/ARS STEWARDS

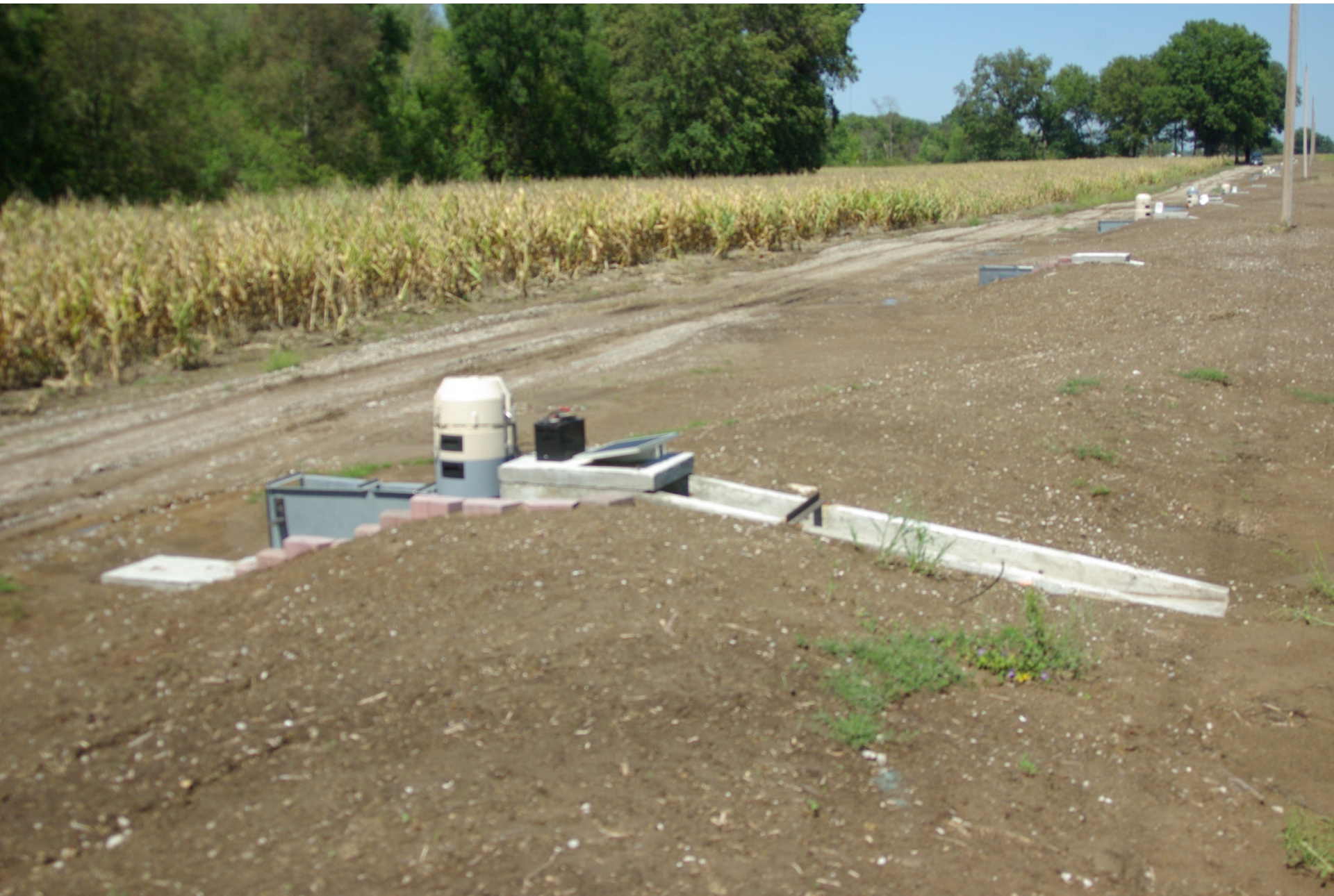
CEAP Research Data



Goodwater Creek
Experimental Watershed
CEAP Update 2013

Outline

- Watershed data series
- 18 plot infrastructure
 - Berms & road earthwork
 - Approach structures & flumes
 - Sampler and stage measurements, QA, data mgt
 - Treatments with perennials
- Telemetry
- SCAN
- SEEP in CEAP – interflow site

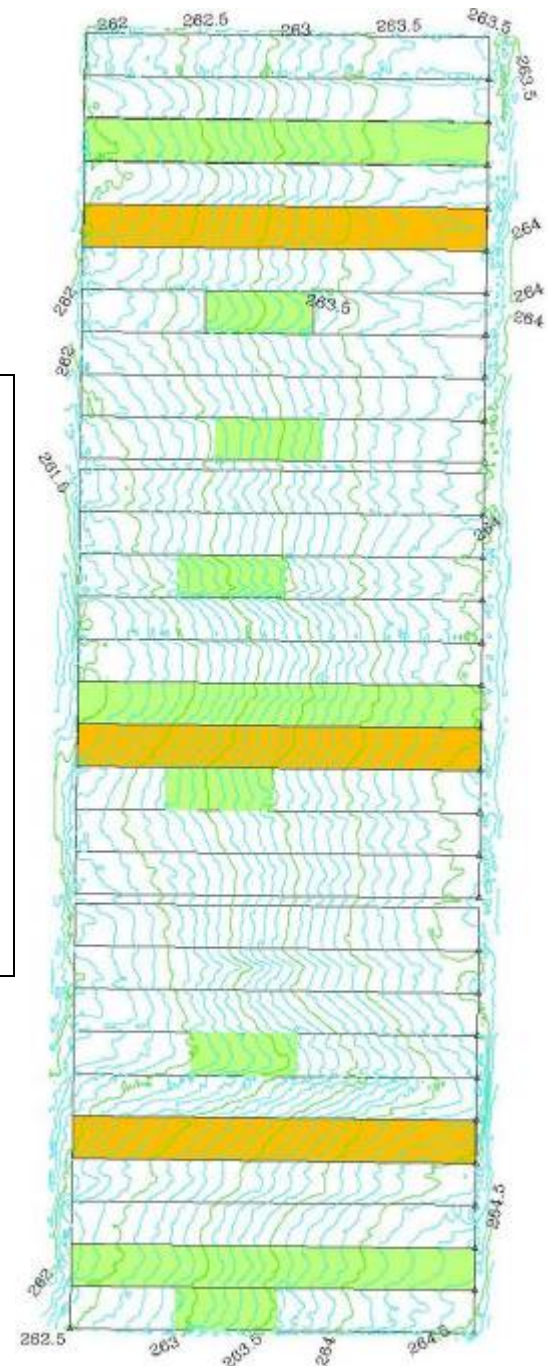


Conversion of Cropping Systems Plots to Include Bioenergy Treatments



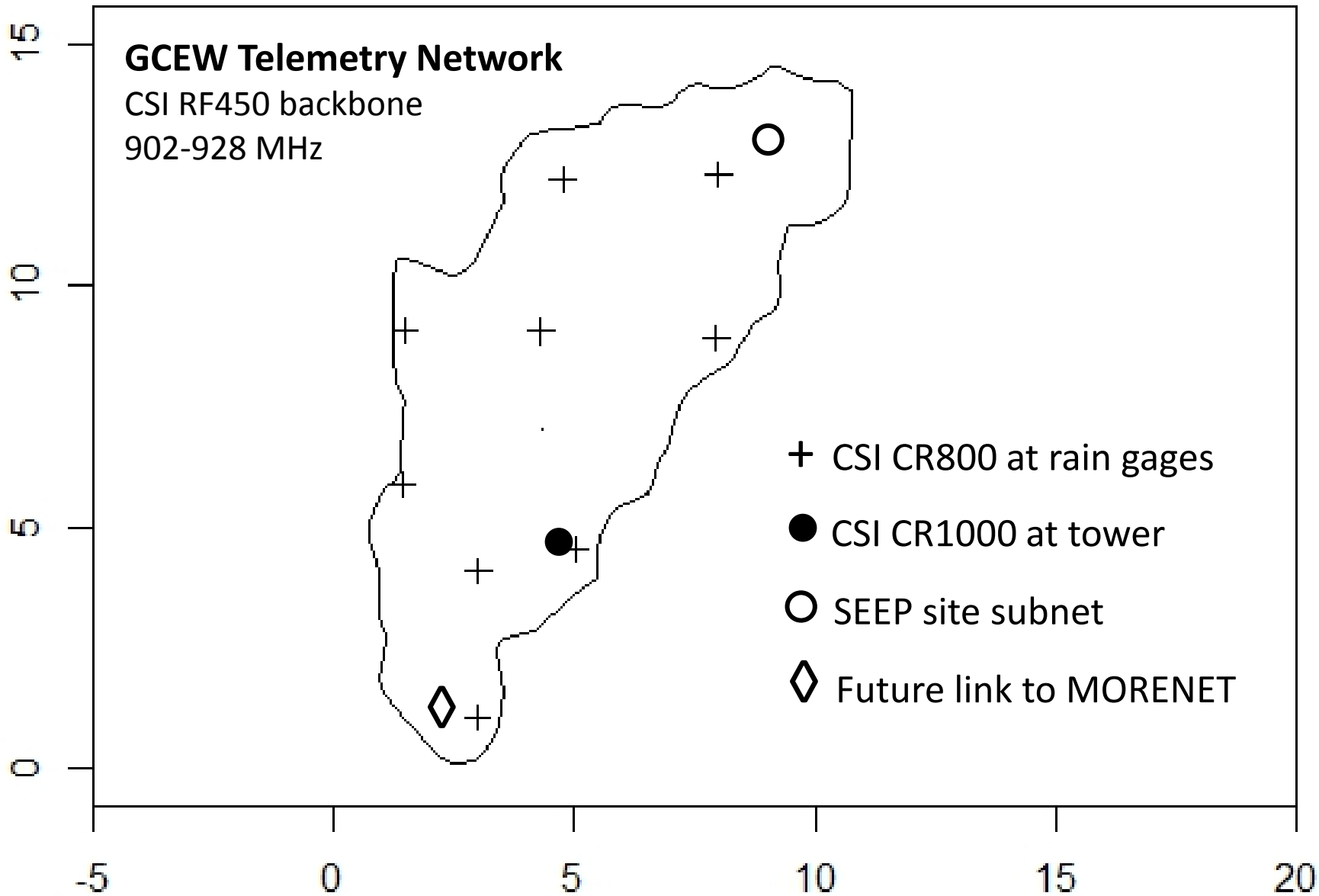
New CS (2010)

- Switchgrass (green)
- Miscanthus (orange)
- Landscape-targeted switchgrass



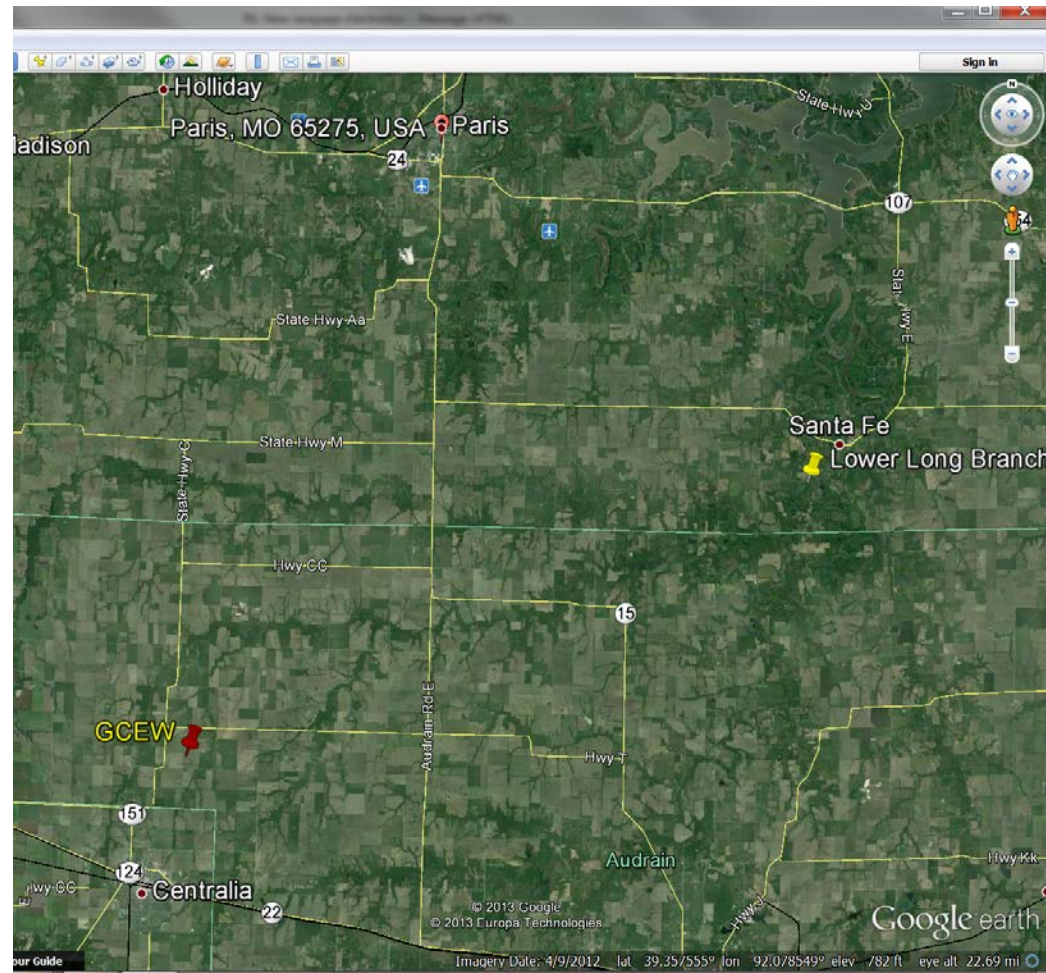






SCAN installation

- Site selected with NRCS and MU Extension
 - Paris HS is option
- Scheduled 1st week of September
- Standard SCAN site
- Plus programming and radio to link to MU's Ag weather network



SEEP Interflow site

- Natural resurgence site in landform
- Seasonal outflow
- Cattails and other wetland plants
- Measuring water flow and quality, soil moisture
- Using interflow WQ with rain and GCEW outlet WQ to infer source ratios by conservative tracer mixing methods

Ongoing work

- Adapting QA
- Modifying stilling wells
- Taking ownership of depth measurements
- Still working on freeze protection

