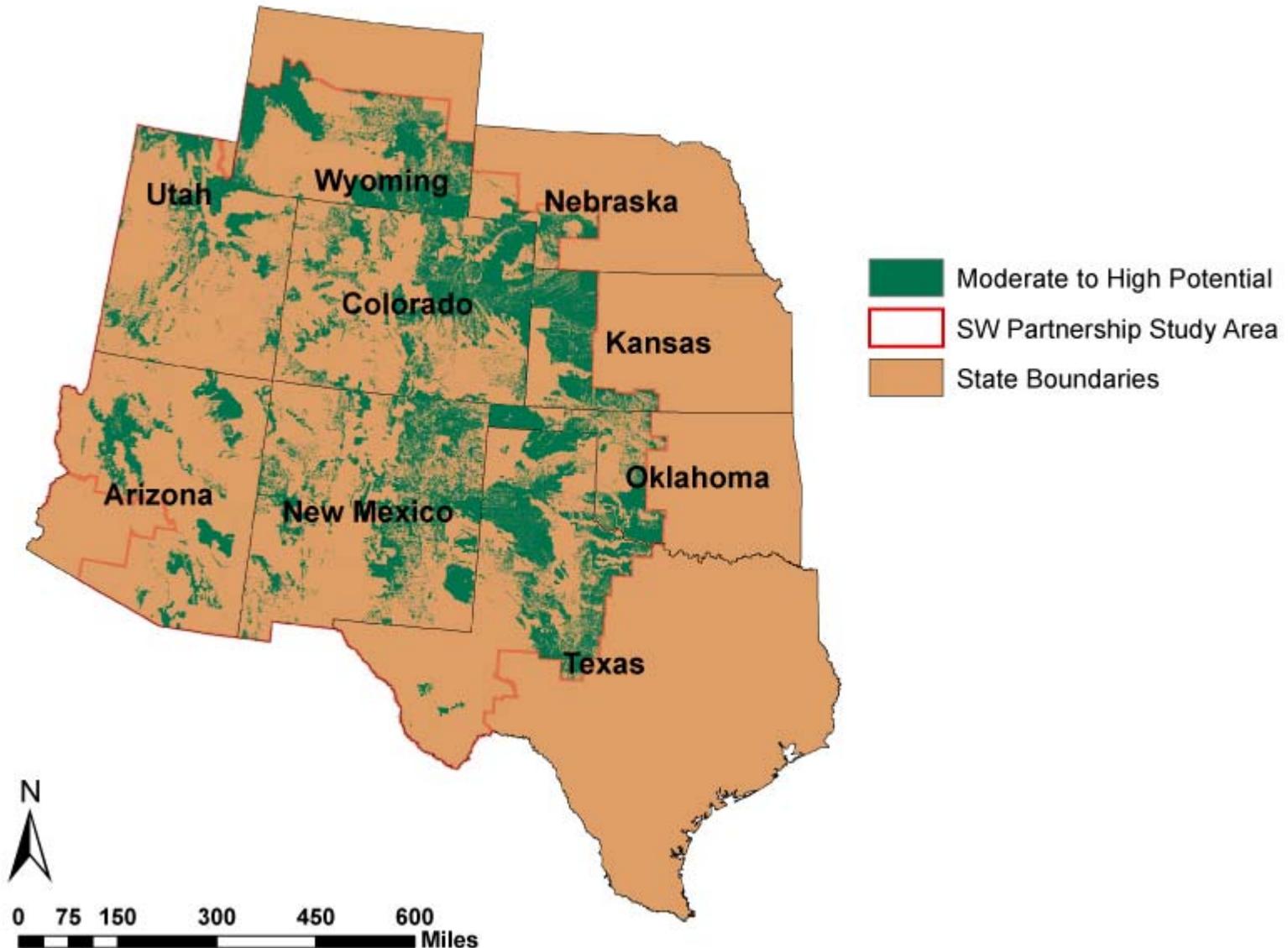


SOIL CARBON MANAGEMENT IN THE SOUTHWEST REGION

PITTSBURGH PA
4 OCTOBER 2006

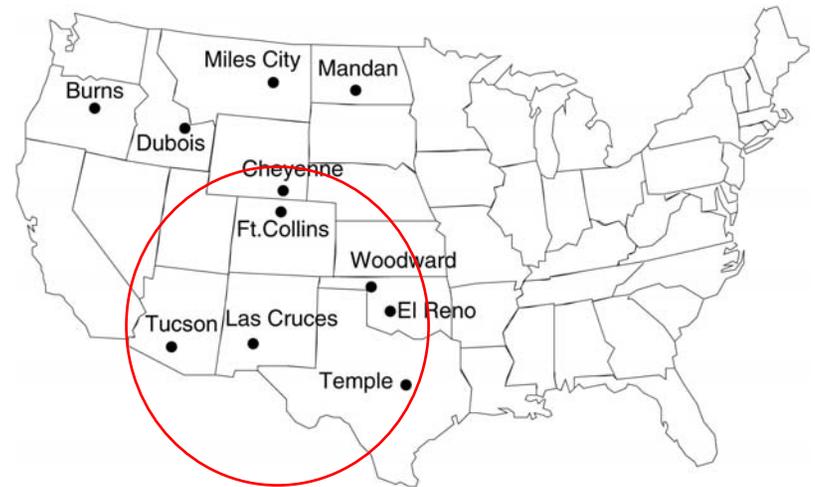
JOEL BROWN and JAY ANGERER
USDA NRCS JORNADA EXPERIMENTAL RANGE
TEXAS A&M UNIVERSITY

Sequestration Potential for SW Region



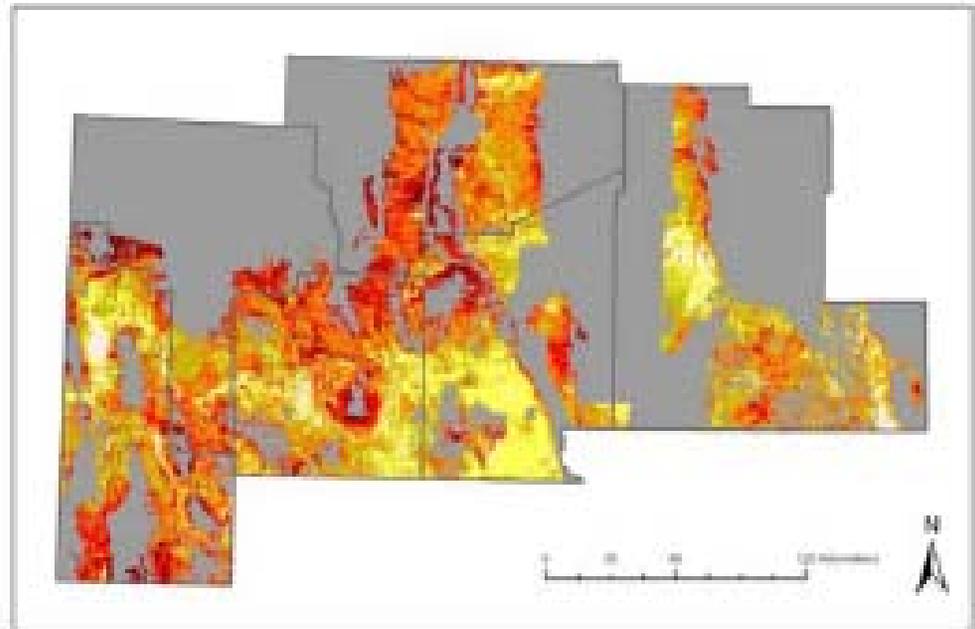
Objectives

- **Objective 1:** Develop improved technologies and systems for direct measurements of soil and vegetation carbon at reference sites selected within Southwest Carbon Partnership region
 - LIBS, NIRS
 - EXISTING LONG-TERM STUDY SITES
 - CORRELATION WITH OTHER TECHNOLOGIES
 - PRINCIPLES FOR COST EFFECTIVE SAMPLING



Objectives

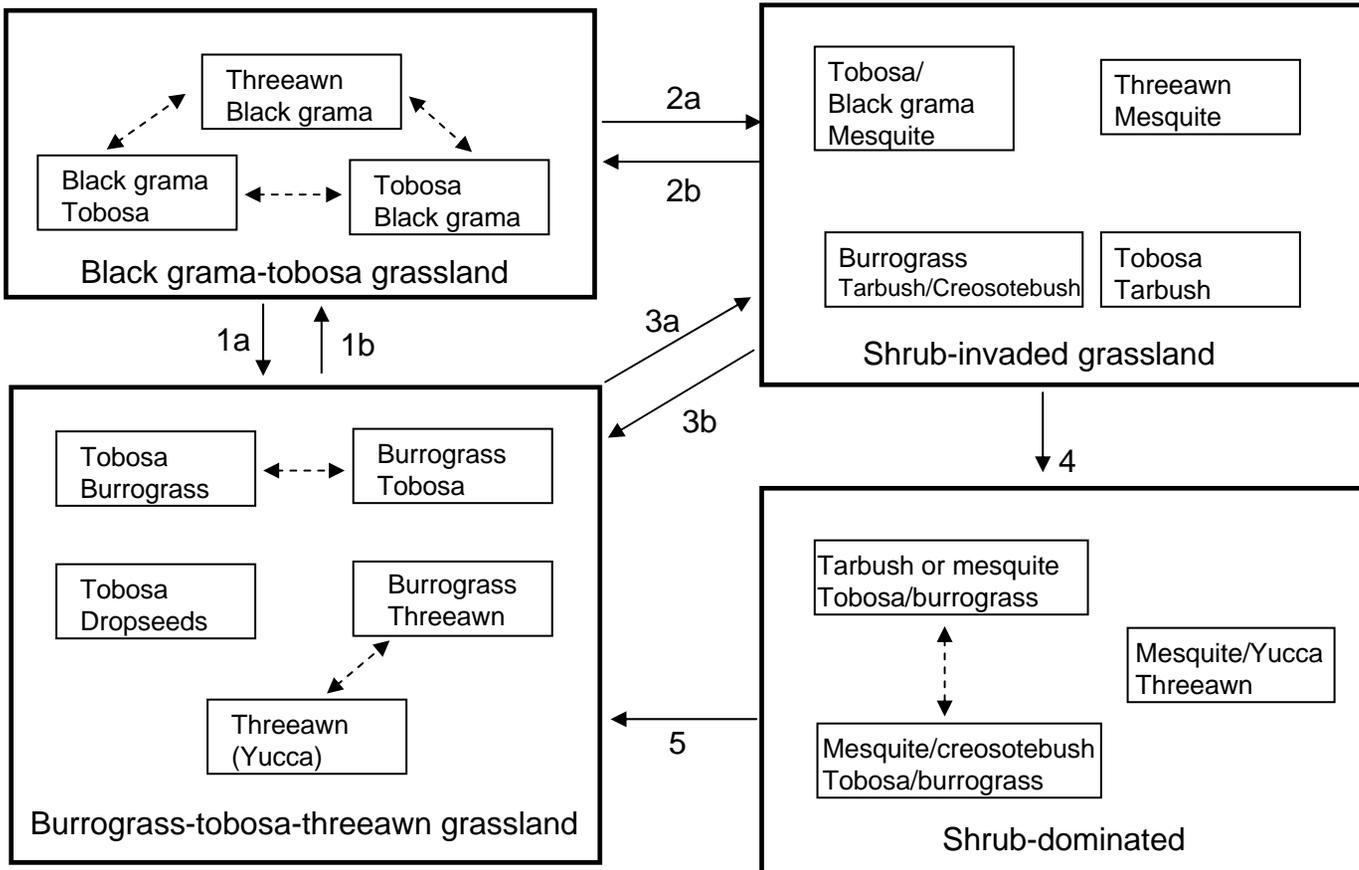
- **Objective 2:** Develop remote sensing and classification protocols to improve mesoscale (km^2) soil and vegetation carbon estimates



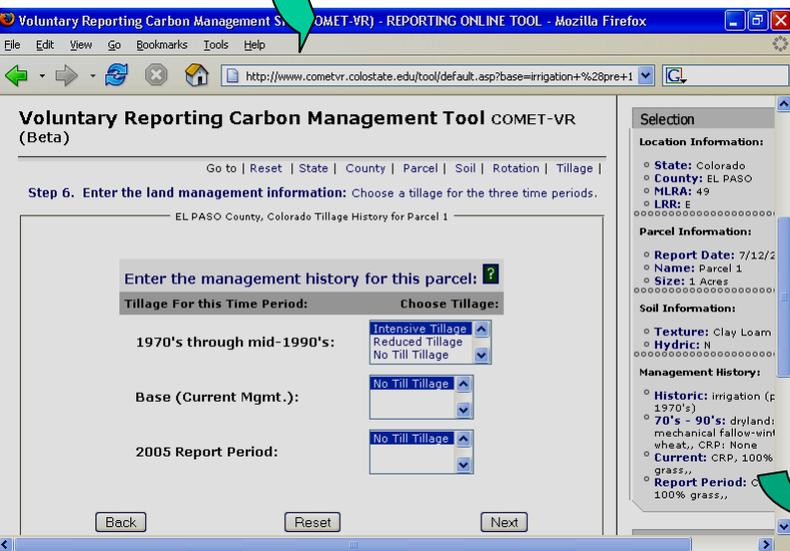
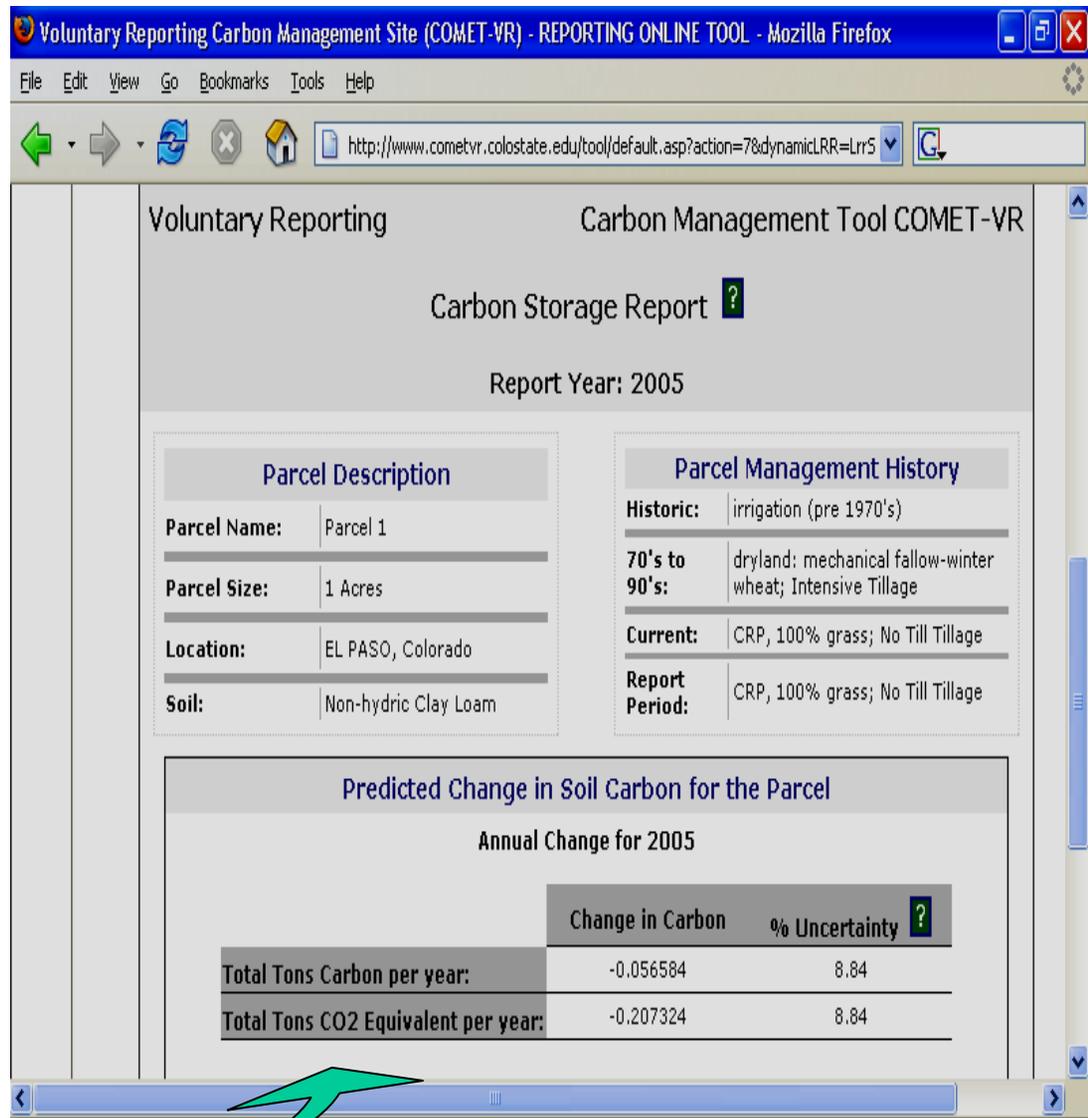
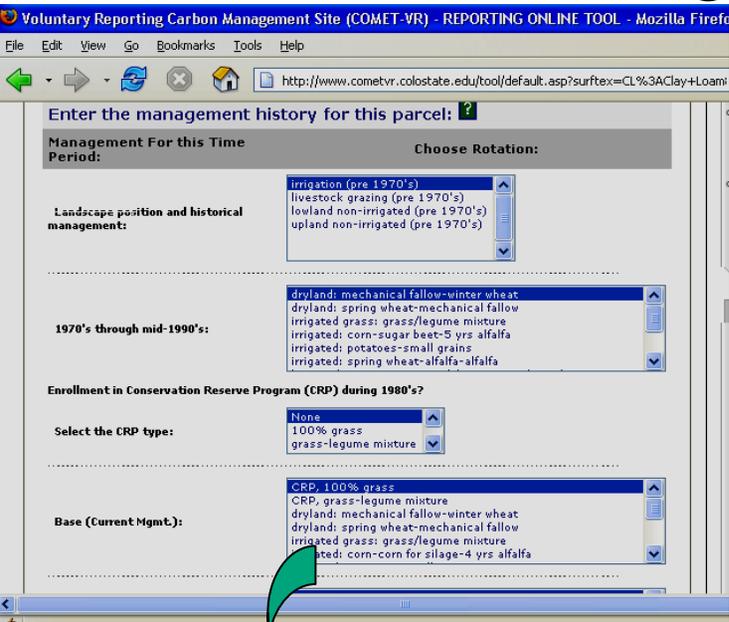
Objectives

- **Objective 3:** Construct ecological process (State and Transition) models that reflect soil/vegetation changes resulting from current land use and land use associated with implementation of programs to sequester carbon or reduce carbon losses

Loamy SD-2



COMET VR



RIPARIAN RESTORATION



- Develop guidelines for management of the landscape matrix that contains wells

RIPARIAN RESTORATION

- DEVELOP A LANDSCAPE SCALE CARBON INVENTORY TO DEFINE CARBON STORAGE POTENTIAL

