



USDA - ARS (& CSREES)

◆ Current Research

- Process studies on soil carbon dynamics and transformations
- Effects of land and soil management on soil carbon sequestration
- ARS Rangeland CO₂ Flux network
- Development of improved Measurement and Monitoring methods
- Models and decision support systems
 - (e.g., Century, CQESTR)
- CASMGs



USDA - ARS

◆ Plans

- Expanded network of sites and activities for land and soil management studies
- Create Cropland CO₂ flux network and Upgrade Rangeland Network
- Develop management procedures to reduce CH₄ from animals and manure
- More comprehensive GH Gas and biogeochemical interactions
- Improved models and decision support systems at various scales
- Remote Sensing of soil carbon



USDA - NRCS

◆ Current Activities

– Inventories

- NRI (Natural Resources Inventory)
- STATSGO, SSURGO (soil surveys)

◆ Plans

- Pilot studies on land and soil management effects on soil C sequestration



USDA ERS

◆ Current

- Modeling adoption of land management and land use change activities (over short-term, 10 years) with baseline business as usual conditions, and with alternative incentive prices
- Data and Databases (NASS)

◆ Plans

- Expand scope of mitigation options, including bioenergy
- Integrate modeling of ag and forestry land use change and management options on common geographical area (with FS)
- More global modeling, expand time frame (50-100 yrs), incorporate climate change impacts



USDA Contributions to NACP

- ◆ Intensive research sites
- ◆ Data and Databases
- ◆ Human Dimensions Analyses
- ◆ Models
- ◆ Capacity and Capability to be a partner in North American Carbon Project