Highlights of MO9

James Gordon
State Soil Scientist
Temple, Texas

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United States Department of Agriculture
NRCS Natural Resources Conservation Service
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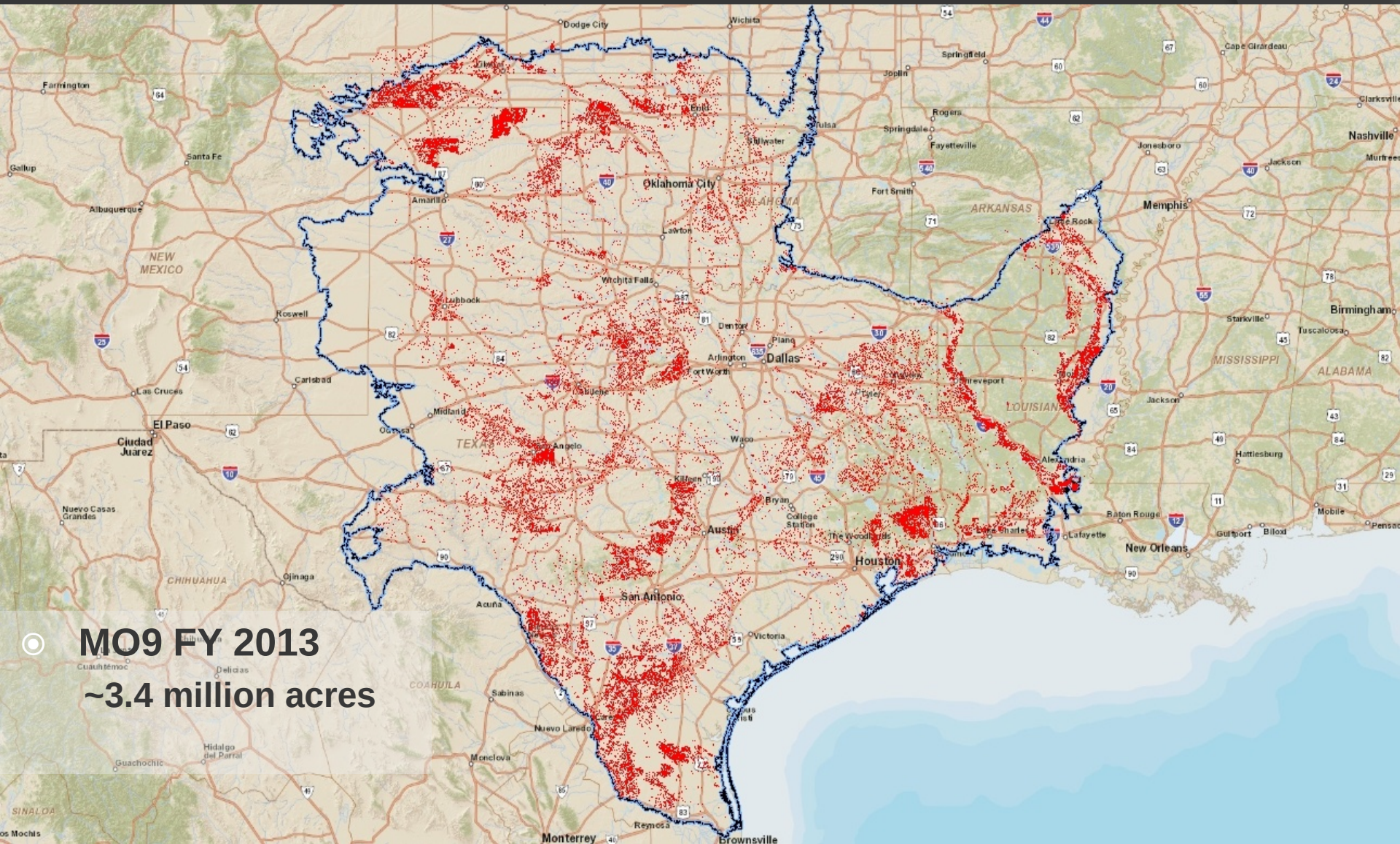
Soil Data Join Recorrelation (SDJR)

- OBJECTIVES
  - Create a continuous and joining coverage with the attribute database through data harmonization.
    - Uniform map unit database
  - Soil survey information consistent across political boundaries will expedite the conservation planning process

MO-9 SDJR Project Areas



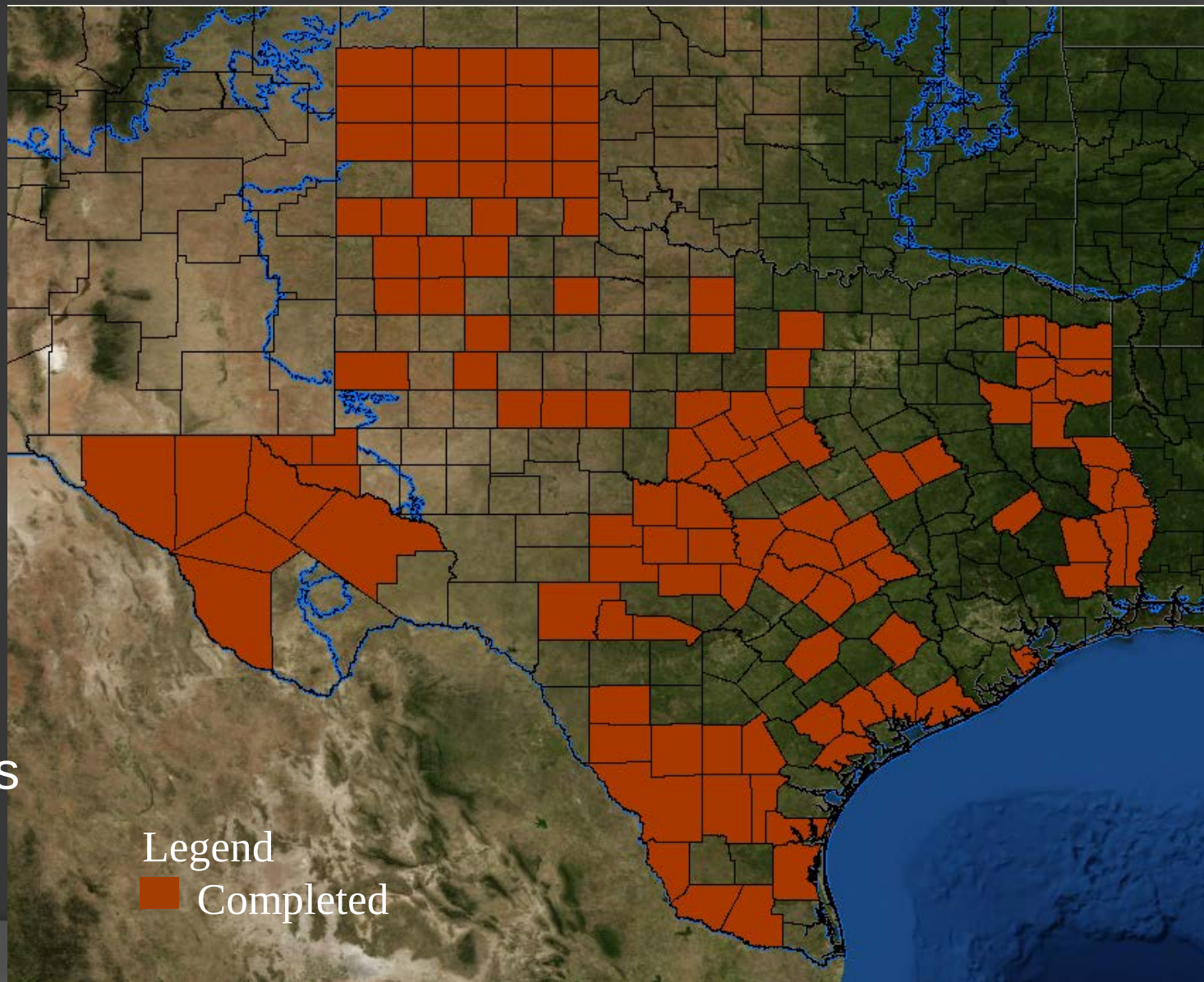
- **MO9 FY 2013**
  ~3.4 million acres

Manuscript Modal Pedons Entered into NASIS

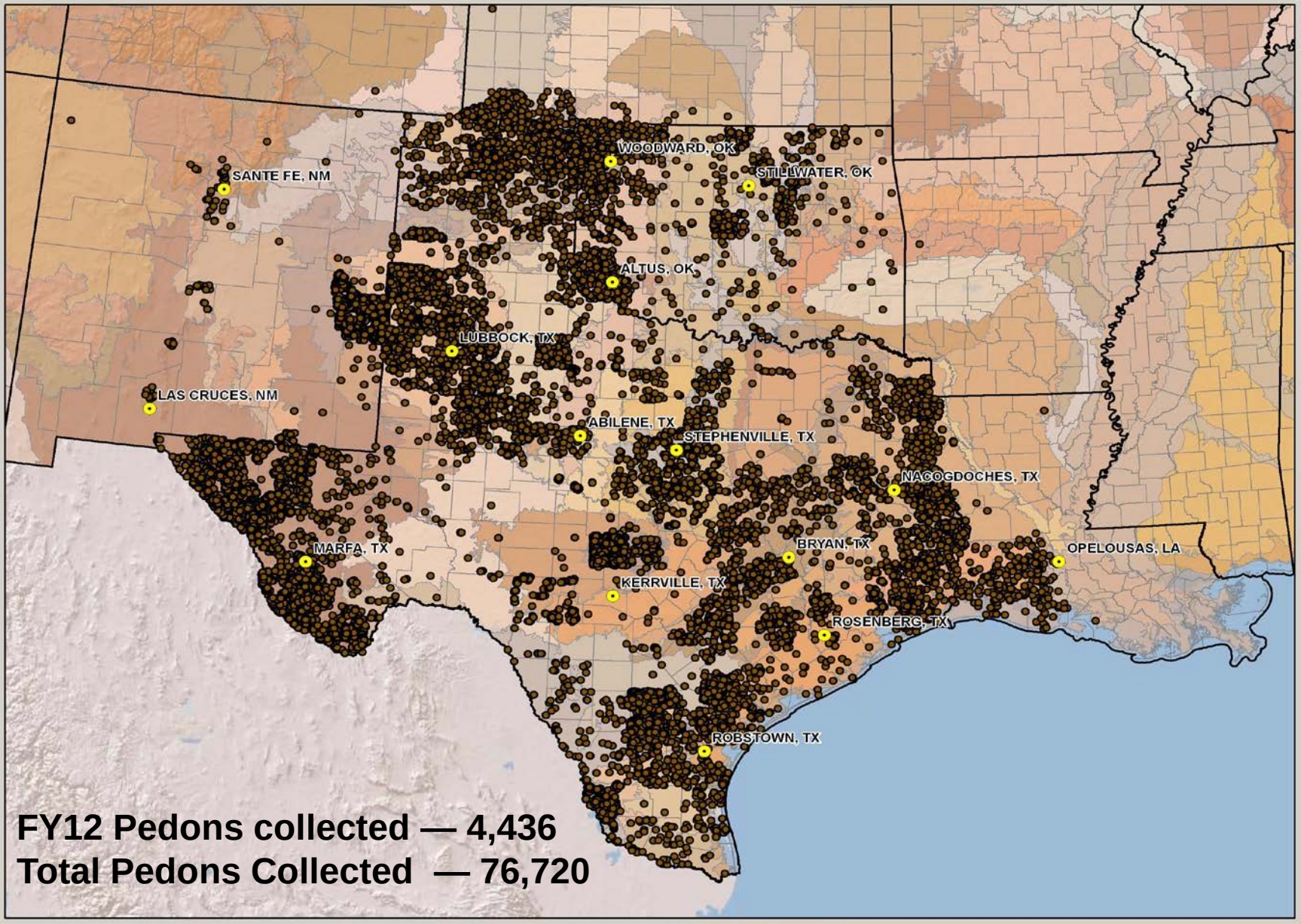
- 232 Soil Survey Areas
  - 118 input

- Pedons will be used in the Soil Data Join Recorrelation (SDJR)

- 1 individual entering pedons



Texas and MO9 Pedons Collected



USDA-NRCS National Cooperative Soil Characterization Database (June 2012) Mer…

https://www.google.com/fusiontables/DataSource?docid=1V5ncRehDPFD2kGis6xsk1j99wHFUnpYHWyyIOwE

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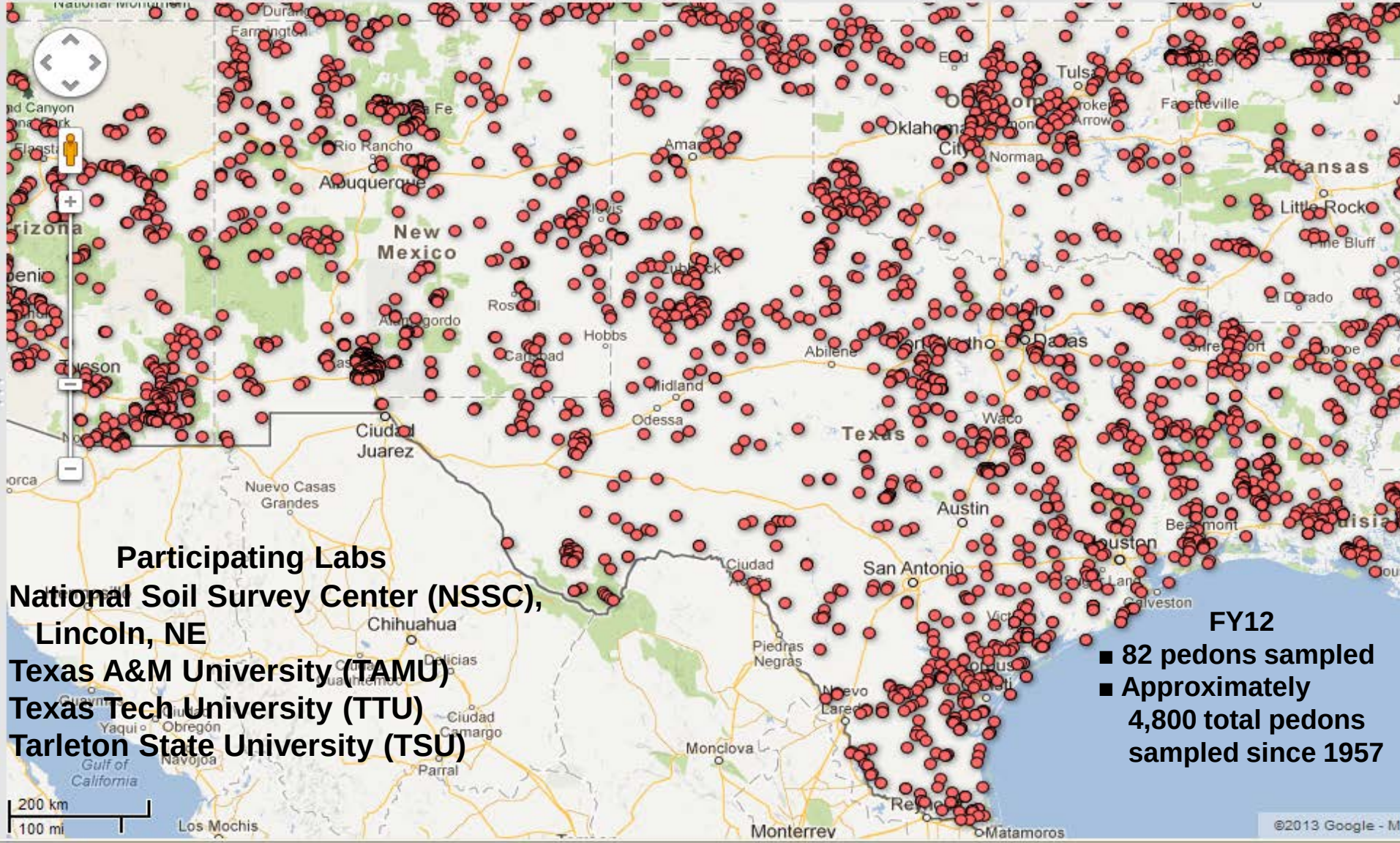


Participating Labs

National Soil Survey Center (NSSC), Lincoln, NE

Texas A&M University (TAMU)

Texas Tech University (TTU)

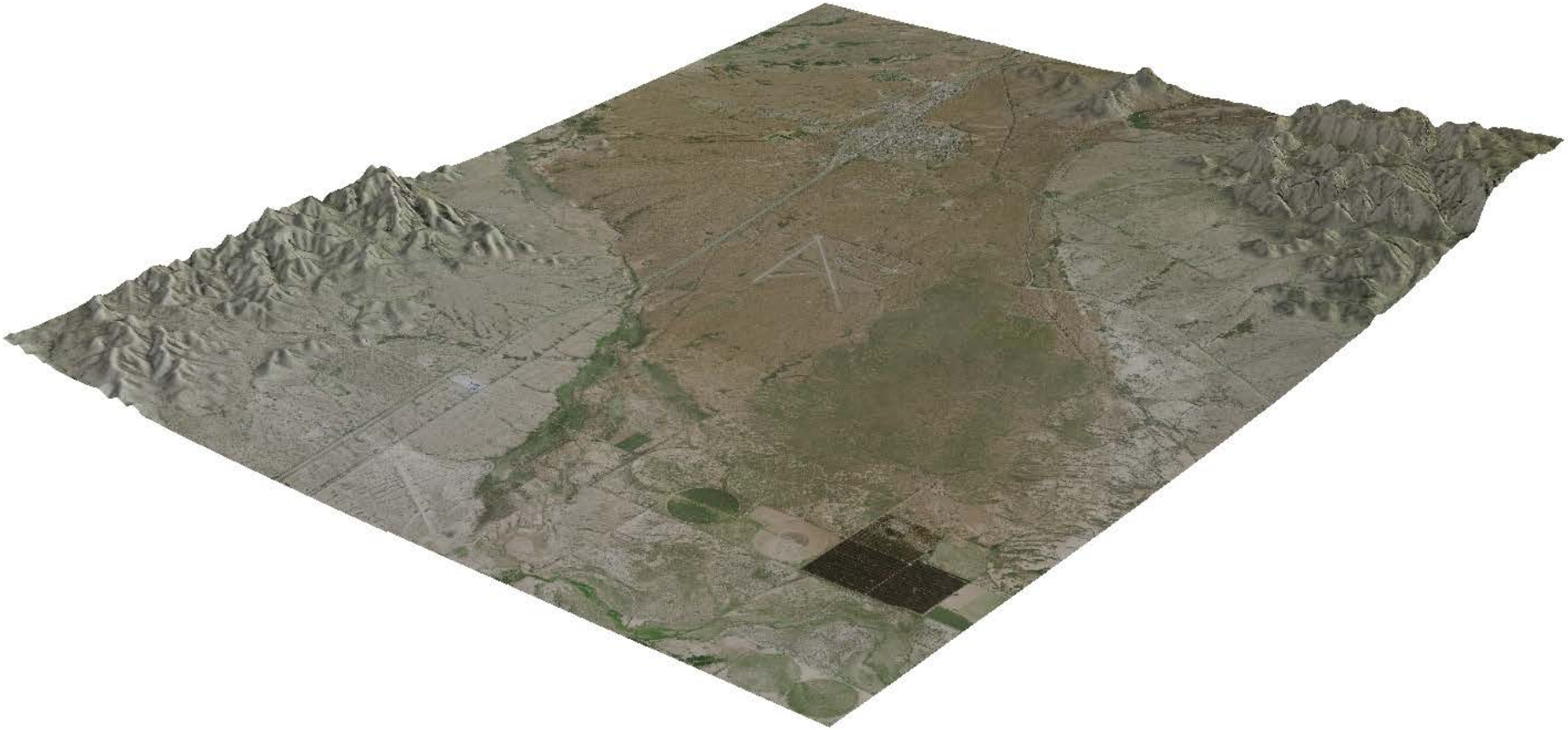
Tarleton State University (TSU)

FY12

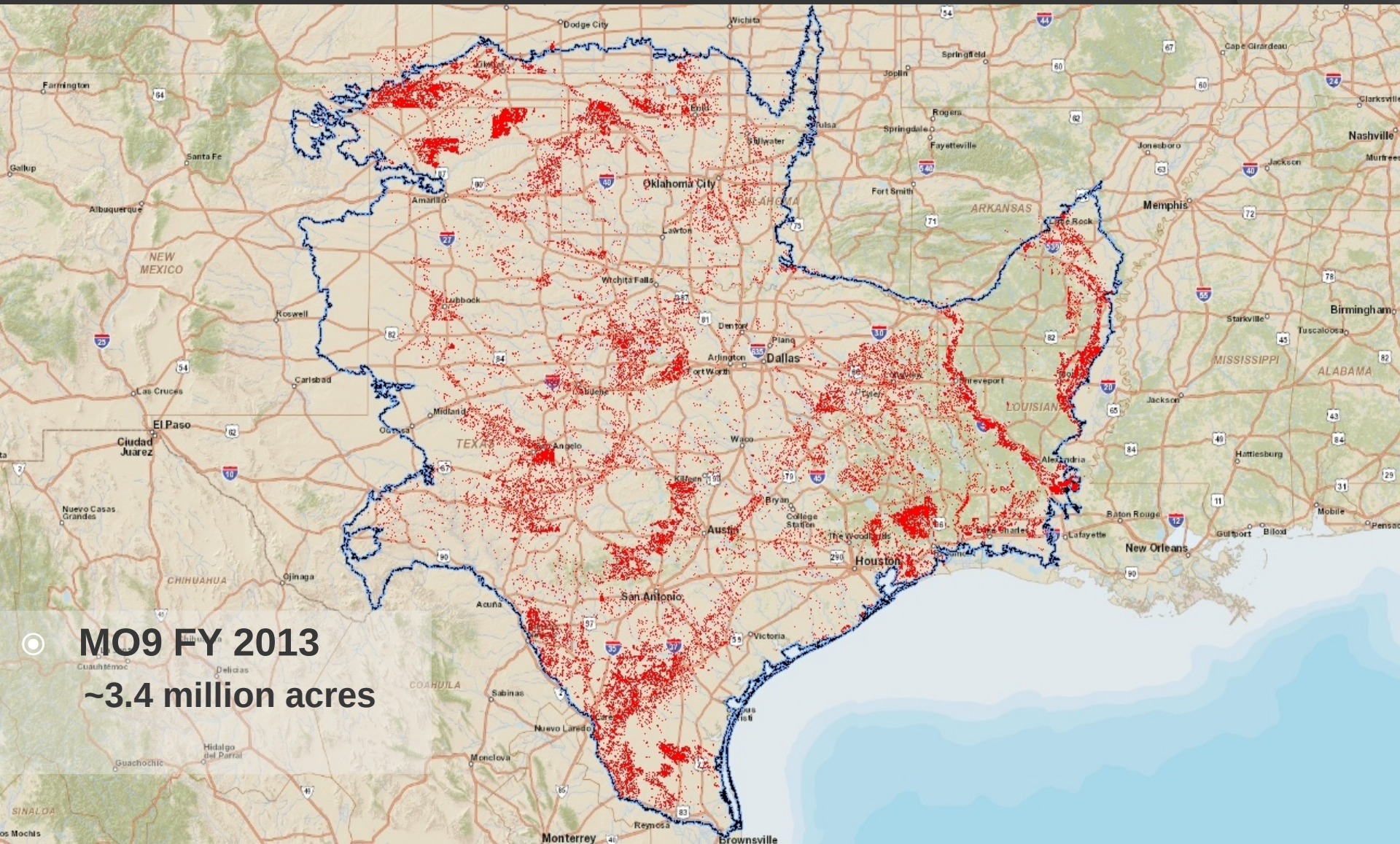
- **82 pedons sampled**
- **Approximately 4,800 total pedons sampled since 1957**

Technology in Soil Survey

- **Using IFSAR or LIDAR with ortho imagery**

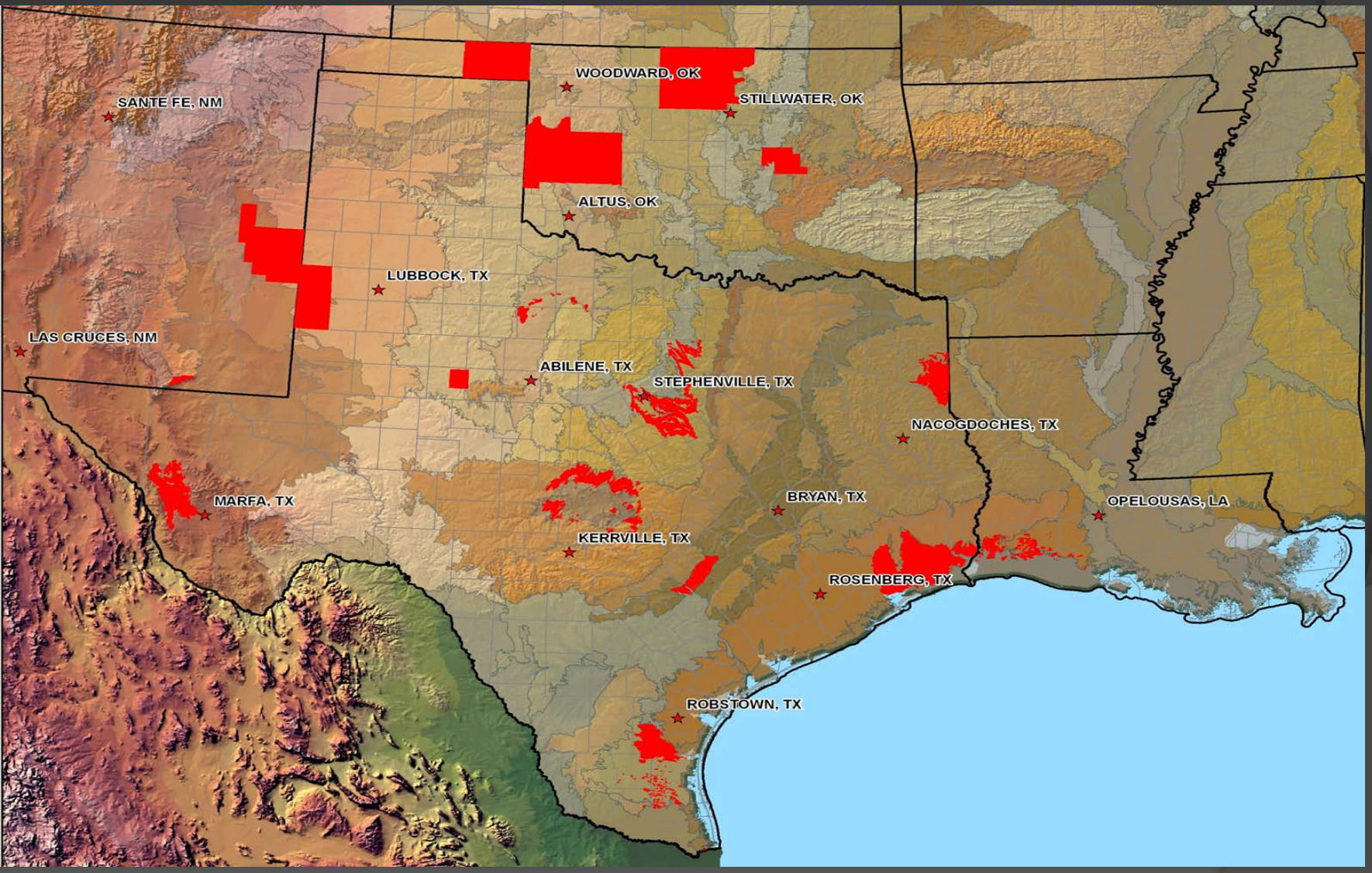


MO-9 SDJR Project Areas

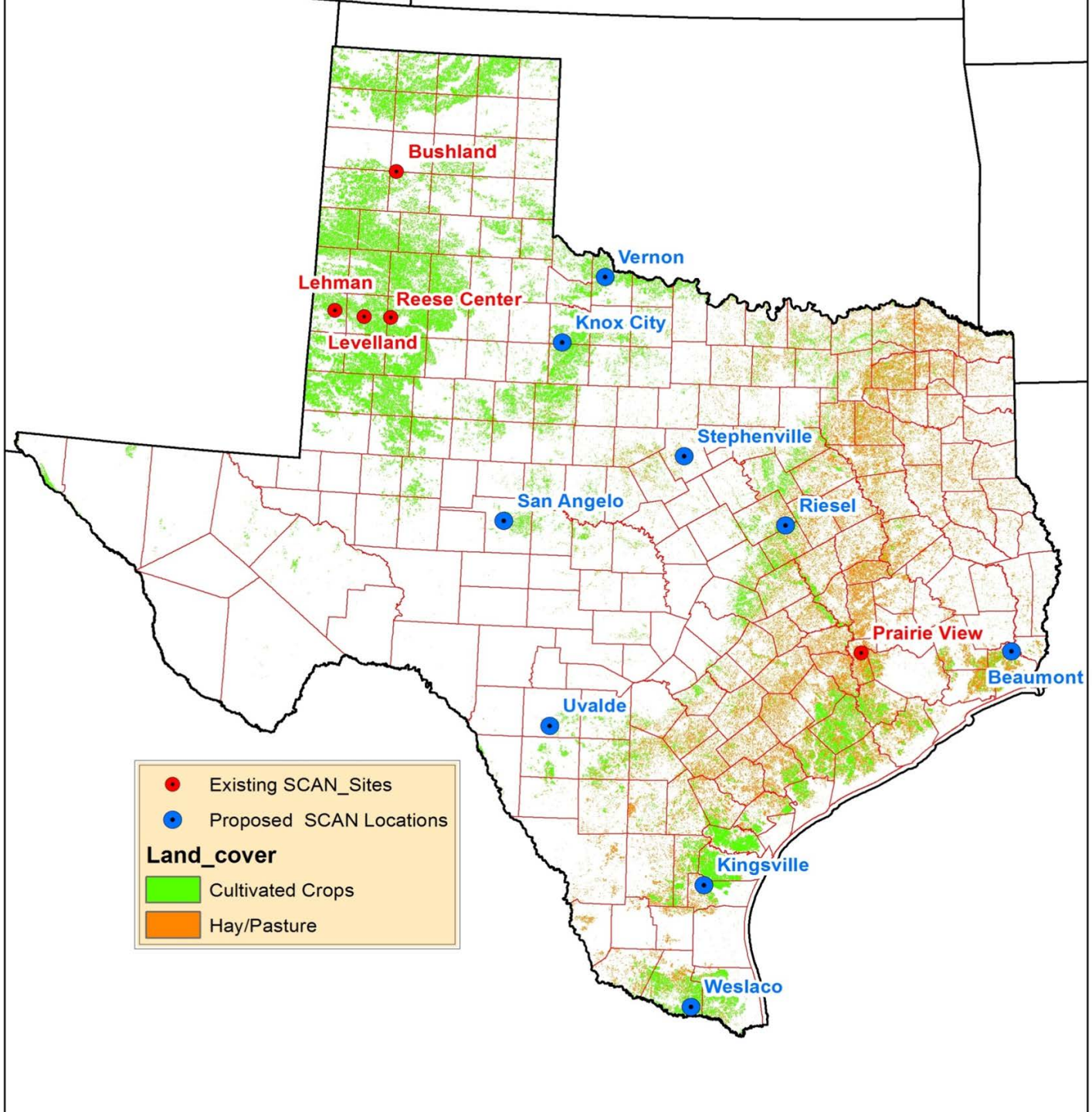


- **MO9 FY 2013**
  ~3.4 million acres

Areas of update mapping

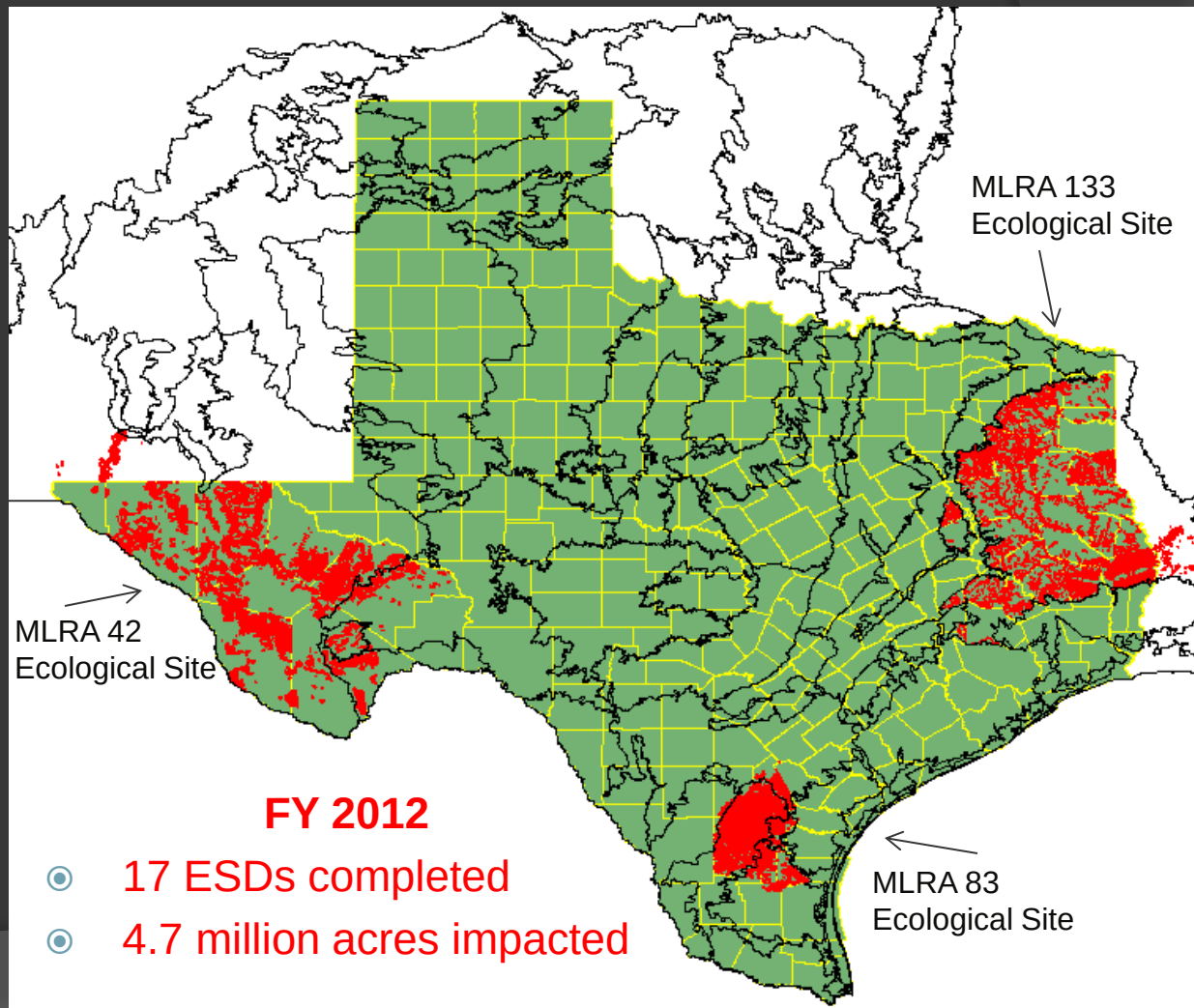


Texas SCAN Sites in Progress



Ecological Site Description Phase 1

- **MLRA 42 Ecological Site**
  - Basalt Hill, Mixed Prairie
  - Loamy Slope, Mixed Prairie
  - Clay Loam, Mixed Prairie
  - Clay Flat, Desert Grassland
  - Gyp Breaks, Desert Grassland
  - Limestone Hill and Mountain, Desert Grassland
  - Loamy Bottomland, Desert Shrub
  - Salty Clay Hill, Desert Shrub
  - Arroyo, Desert Shrub
  - Salty Clay Flat, Hot Desert Shrub
- **MLRA 83 Ecological Site**
  - Gray Sandy Loam
  - Sandy Loam
  - Shallow Ridge
  - Tight Sandy Loam
- **MLRA 133 Ecological Site**
  - Deep Sandy Upland
  - Sandy Upland
  - Loamy Bottomland

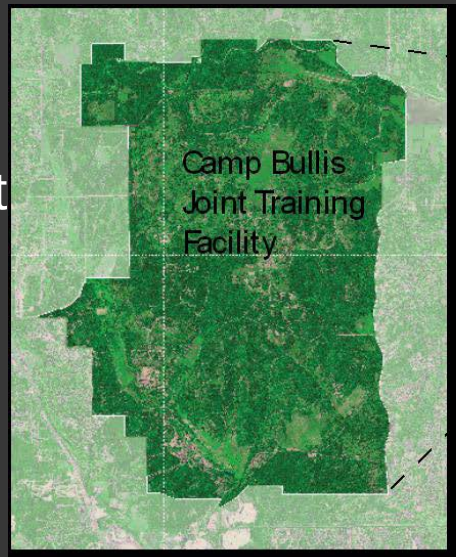


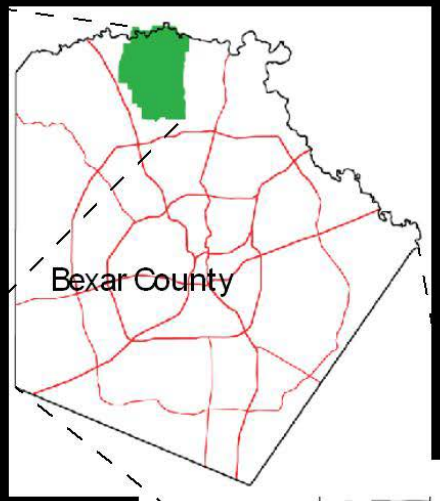
FY 2012

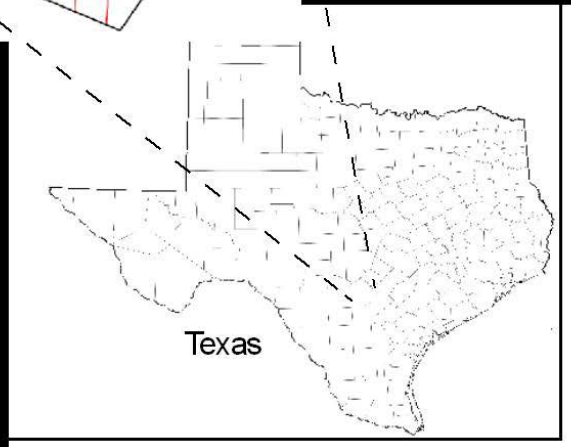
- 17 ESDs completed
- 4.7 million acres impacted

Camp Bullis, Bexar County, Texas Ecological Site Descriptions

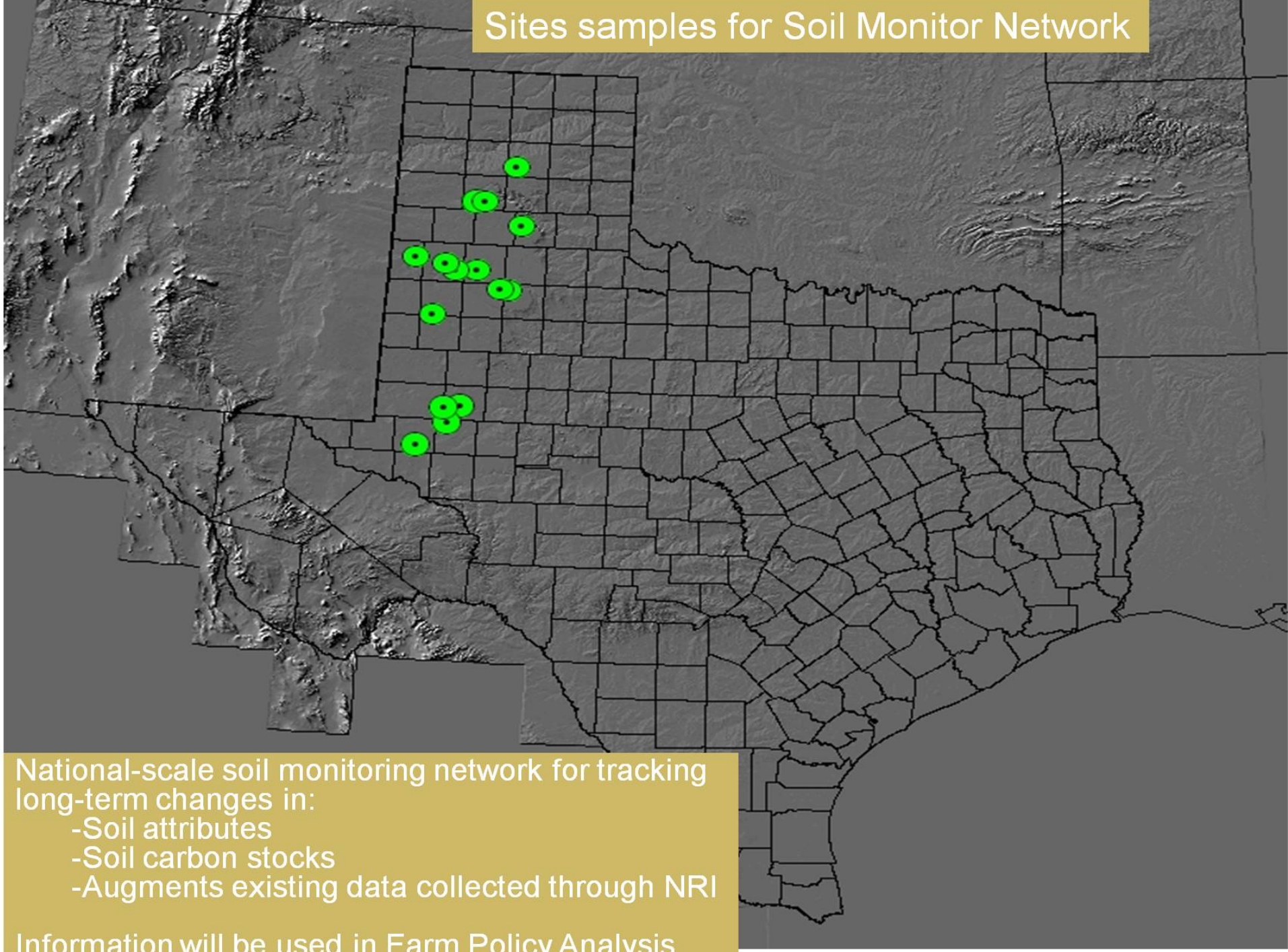
- Conduct a long-term vegetation inventory and monitoring network on Camp Bullis
  - 100 points used to characterize the plant communities
  - Points will be used to monitor changes by inventorying every 5 years
- Sampling assists with management intervention decisions to maintain the desired plant community for training missions







Sites samples for Soil Monitor Network



National-scale soil monitoring network for tracking long-term changes in:

- -Soil attributes
- -Soil carbon stocks
- -Augments existing data collected through NRI

Information will be used in Farm Policy Analysis

FY2012
Texas CESU Agreements

- 2D and 3D Maps of Near-Surface Water Tables and Nearly Saturated Soils
  - AgriLife – Dr. Cristine Morgan
- Selected Properties for Soil Characterization of National Water Quality Initiative Sites
  - AgriLife – Dr. Donald McGahan
- Soil Characterization of National Water Quality initiative Sites
  - AgriLife – Dr. Sam Feagley

uston Black soil

-USDA-ARS Station Riesel, Texas
-CESU agreement with NRCS Texas and TAMU

-Plant Material Center Nacogdoches, TX
-NRCS Texas and MO9 joint effort
-Soil Health Study

State and MO Reorganization

- NRCS TEXAS State Staff
  - State Soil Scientist – James Gordon
  - GIS Specialist – Drew Kinney
  - GIS Staff (5)
  - NRI Specialist -- Micki Yoder
  - NRI Staff (3)

- NRCS MO9 Staff
  - Soil Survey Regional Director – Levi Steptoe
  - Soil Data Quality Specialists (5)
  - Editor (1)
  - ESI/QA Specialist - Mark Moseley
    - ESI/QC (4)
  - MLRA Soil Survey Offices (13)
    - TX (8)
    - OK (3)
    - LA (1)
    - AR (1)

QUESTIONS???

Thank You

Contact James Gordon at 254-742-9856 for more information.

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