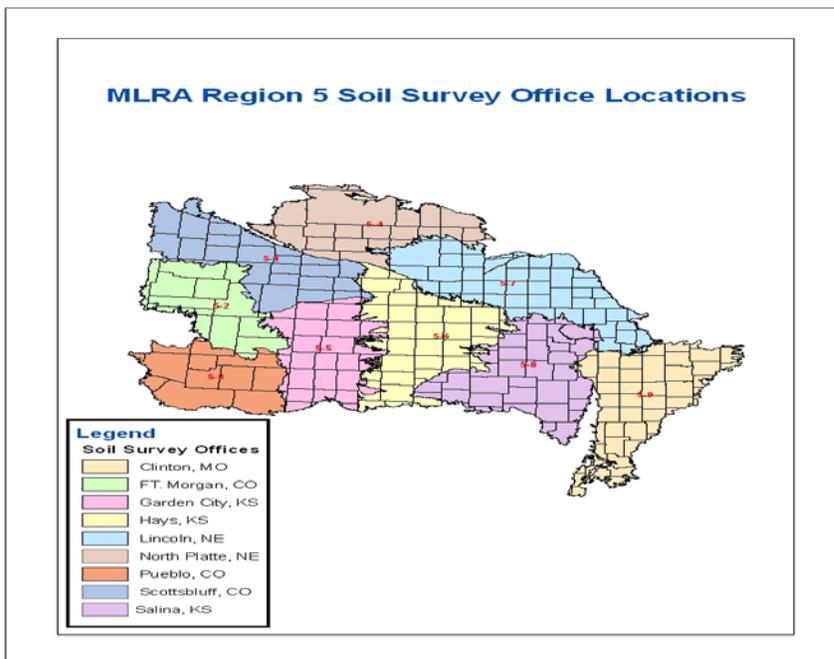


MO 5 Region Report

MLRA Office Region 5 report will consist of discussing staffing, soil survey office projects, soil investigation and ecological site description. MO office consists of MO Leader, regional senior soil scientist soil data quality specialist and cartographer.

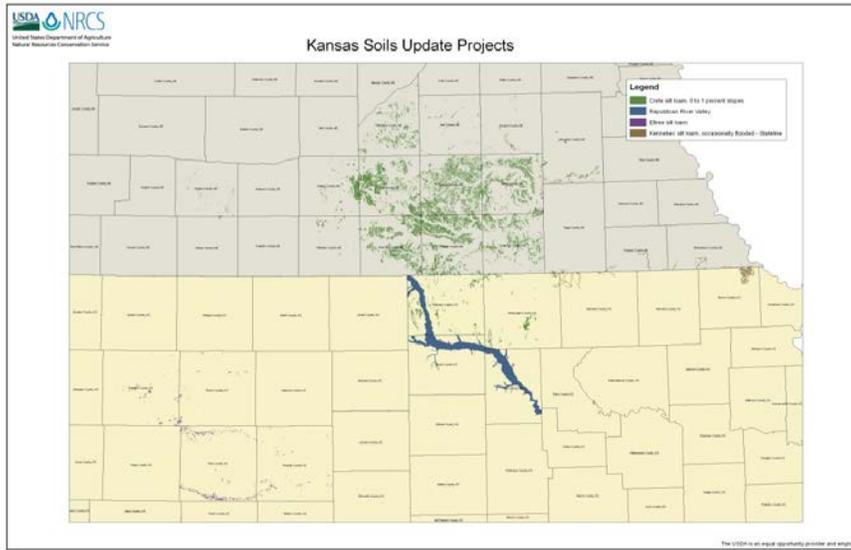
MO 5 has offices in Clinton in Missouri; Lincoln, North Platte and Scottsbluff in Nebraska; Ft. Morgan and Pueblo in Colorado and Garden City, Hays and Salina in Kansas. See map below.



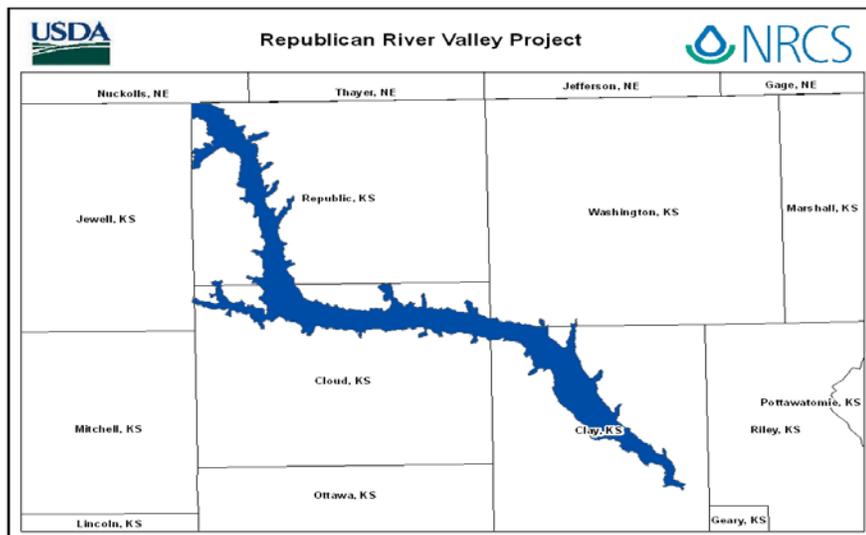
Below is a list of project that have been completed or initiated in MO 5

- Completed mine land area updating in the eastern portion of MLRA 112
- Completed the Pawnee eroded project in MLRA 106
- Completed Roxbury frequently and occasionally flooded project in MLRA 73
- Continue to work on multi-county project in the NE sandhills
- Completed Republic River Valley Project in MLRA 74
- Completed Etree silt loam project in MLRA 73
- Completed Crete silt loam project in MLRA 75.
- Completed Dalhart-Satana Project in MLRA 72
- Completed Rapid Carbon Assessment Project
- Seven of the nine soil survey offices are working on SDJR project.
- Approximately 15 project have been correlated

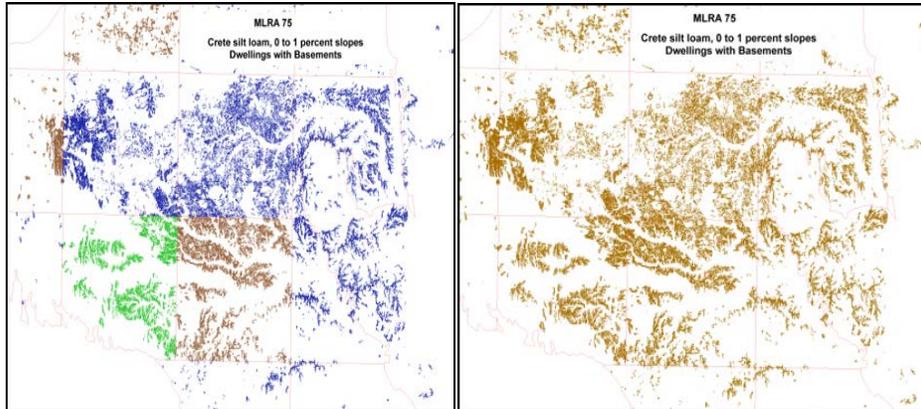
The map below shows the extent of the FY 2011 projects.



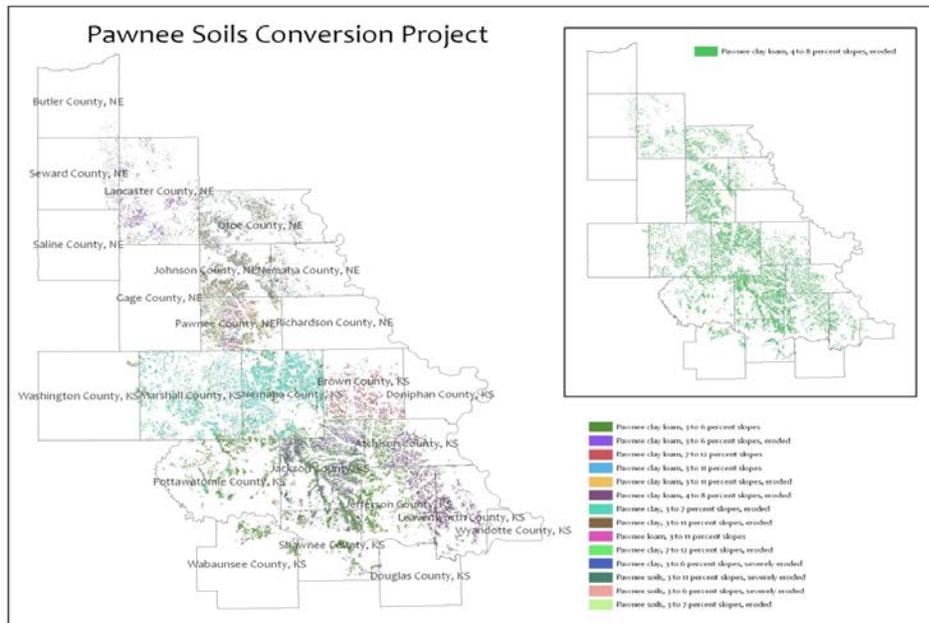
Below is the Republican River Valley Project. This project was a total remap that was done over a three year period. Five new series was established as result of this update. The evaluation that prompted this update was done in the late ninety. Unfortunate, at that time there were not staff to initiate this update. The update covered 6 counties and 2 states.



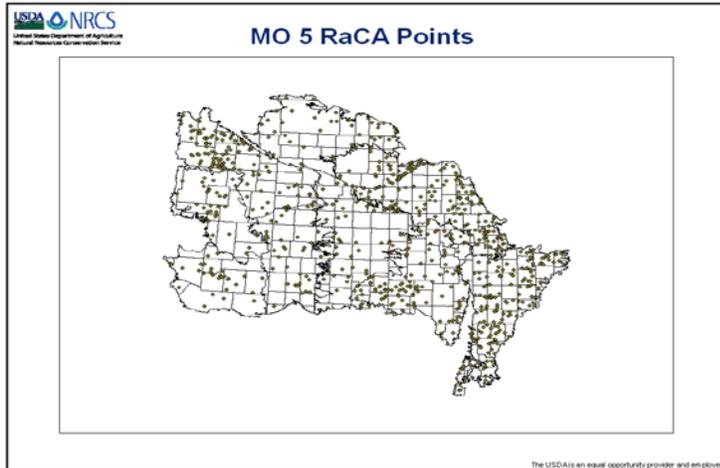
Below is a completed Soil Data Join Recorrelation (SDJR) process. This was a SDJR of Crete silt loam 0 to 1 percent slopes. The left side show the area prior to SDJR and the right sides is after SDJR.



Standardized Pawnee eroded across county and state lines. Two methods were used for project. In the southern part of the project area extensive field work conducted. In the northern part of the area limited field work was done with the use of GIS technology.



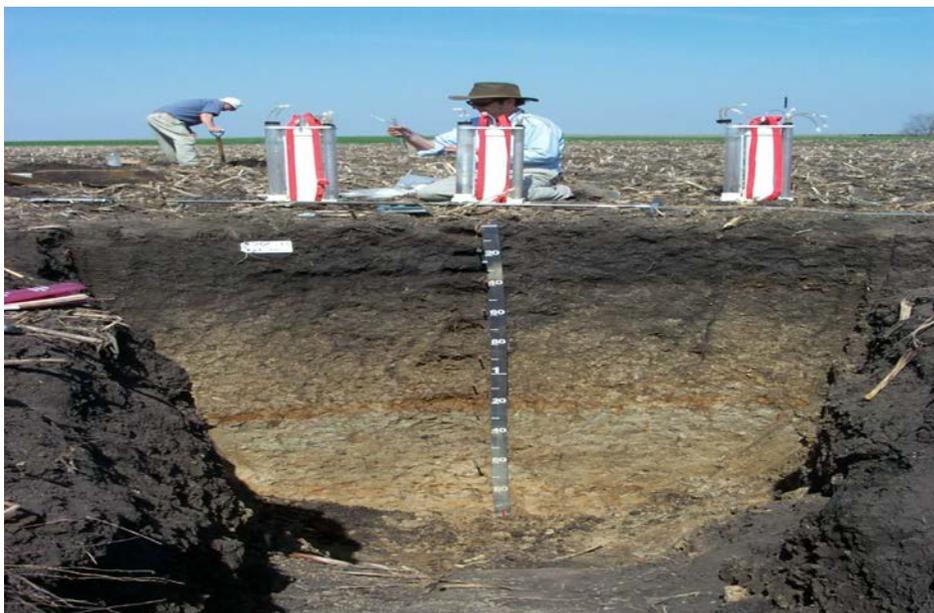
During the fiscal year 380 Rapid Carbon Assessment sites was sampled. VNIR analyses were completed on all sites. All points were entered into NASIS. Required sampled was submitted to the National Soil Survey Lab. The figure below shows the extent of the point within in MO 5 Region.



The MO has an aggressive investigation program. Below are some the investigations that are ongoing in the region.

- Continue sampling benchmark soils and new series
- Continue monitoring and evaluating scan site data
- Continue monitoring and evaluating global water data logger sites
- Aggressively collect KSAT data throughout the MO.

The MO has an aggressive program to collect hydraulic conductivity data on benchmark and major soils in the region. We have a trailer that houses 30 Amoozemeters with 200 gallon water tank. We are conduct Amoozemeters study at each site when we collect characterization samples. Below is an example of a typical Amoozemeters set up.



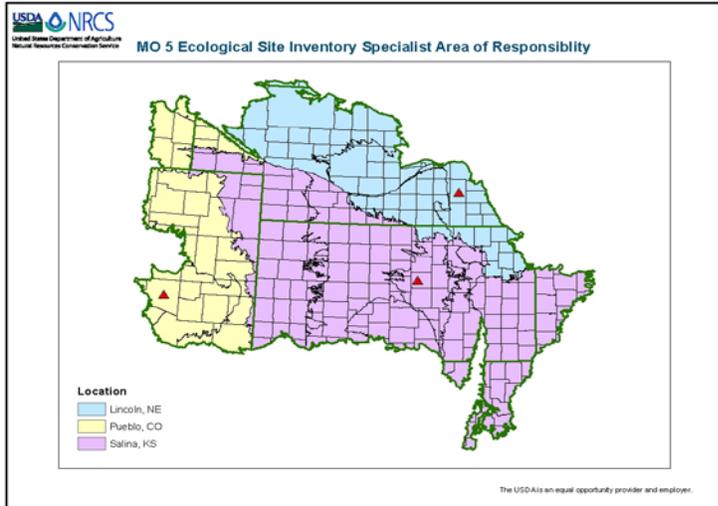
Water table data is being collected on several soils through the MO using global water monitoring instrumentation. This data have been collected for about 5 years. There are 6 sites in Kansas, 1 site in Missouri and 4 sites are in Kansas. The data for the sites are downloaded every 3 to 4 months. The data is housed on MO 5 share drive. Below is an example of typical set up for the study.



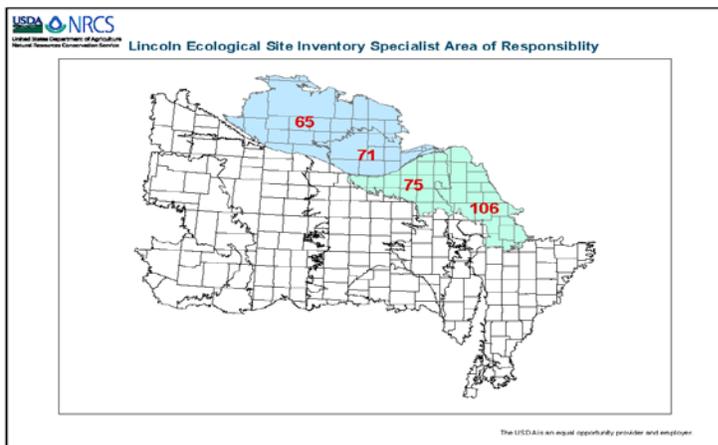
All project offices have lab that are conducting basic analysis such as particle size analyses, ph, salinity etc.



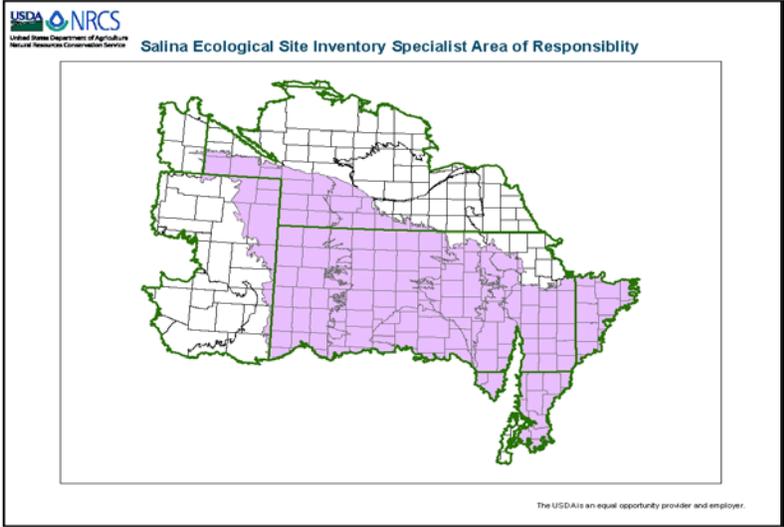
Ecological Site Inventory Specialist (ESIS) is located at soil survey project offices at Lincoln, NE, Salina, KS and Pueblo, CO. The area of responsibility for ESIS original was to be for one soil survey project office (SSPO). In MO 5 since we felt that there would not be funds to support an ESIS position in each SSPO the decision was made by the State Soil Scientists in the MO to assign each ESIS to multi SSPO. The map below shows the division of area of responsibility for the three MO5 ESIS.



The ESIS in Lincoln, NE is responsible for developing ESDs in MLRA 65, 71, 75 and 106 as depicted in the figure below. The ESIS have formed an ESD technical team that have met and developed and prioritized project plans. The ESIS is in the process of reviewing and modifying existing ESD for submission for quality assurance review and certification. Priority will be to focus on ESD that was labeled as draft.



The ESIS in Salina, KS is responsible for developing ESDs in MLRA 72, 73, 74 75 and 76 as depicted in the figure below. The ESIS have formed an ESD technical team for MLRA 76, developed a long range plan that had been signed by board of directors. Three ESD project plans is developed and approved. These plans will be completed before the end of the fiscal year and submitted for quality assurance review and certification.



The ESIS in Pueblo, CO is responsible for developing ESDs in MLRA 67A, 67B, and 69 as depicted in the figure below.

