



University of Missouri

Soil Health Assessment Center: Report to the Area SWCD's July 31-August 4, 2017

Service in the Land Grant Tradition

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Initial Baseline Data: Cover Crops Cost Share Program 2015-2016

1732 samples; Summarized by State; County; and MLRA: (Covering 83,863 acres)

- Maximum
- Minimum
- Mean

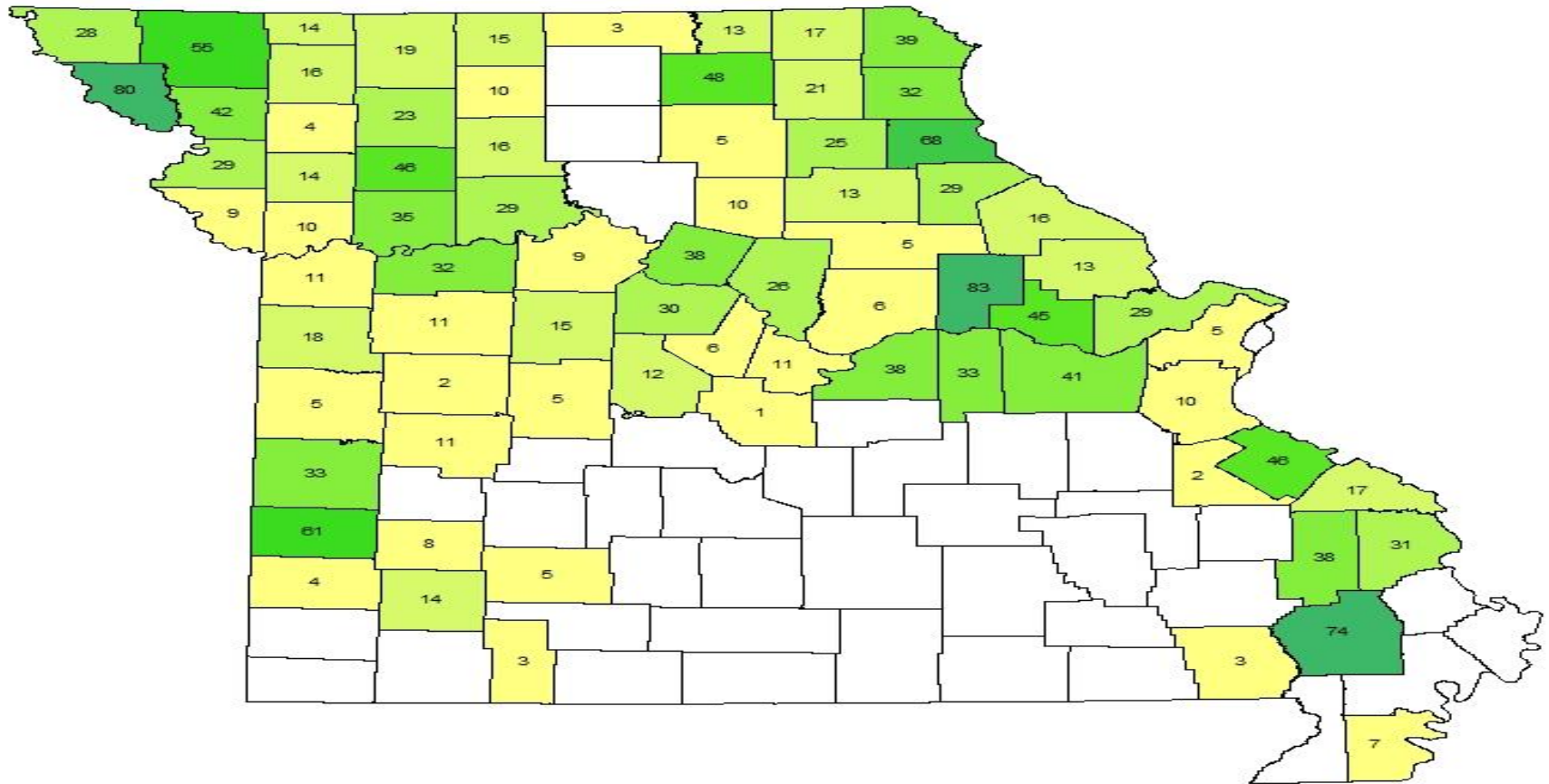
Will start summarizing by Major Land Resource Area (MLRA)

Will post general (aggregate) summary on web site

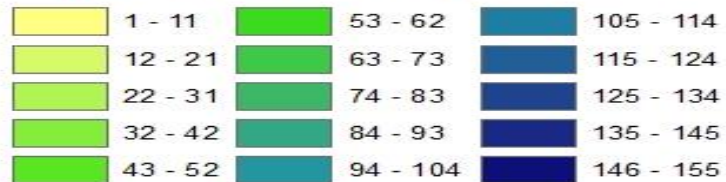
Cover Crops Cost Share Program 2016-2017

- 1744 samples.
- Summarized by State; County; and MLRA
- We have sent out results for the first 997 samples; the next 400 are being checked and set up for reporting.
- We are not sending out the reports by county this year but in the order that they were sent in.
- We are using 2015-2016 descriptive statistics to provide user a reference point for their assessments relative to others in county, state, and (eventually) major land resource areas.

Cover Crop Sample Submissions by County 2015

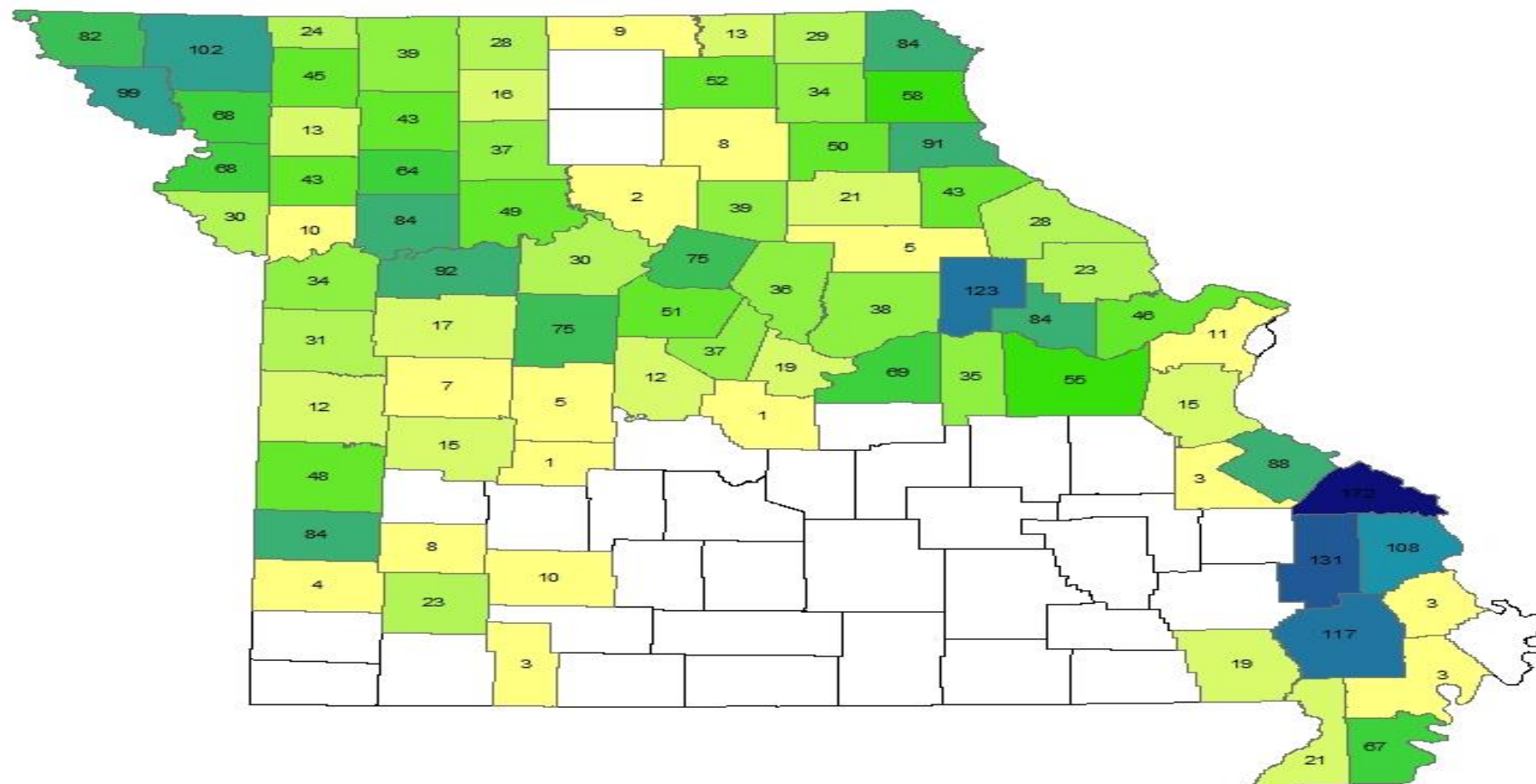


Samples per County

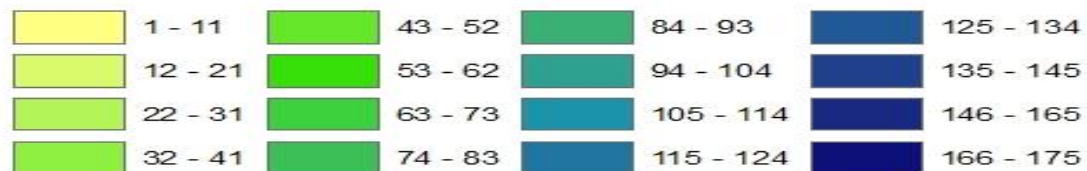


Total Cover Crop Samples per County

(2015, 2016)



Samples per County



SHAC Data in National Data Base: We are Still Seeking Legal Guidance

- Discussion of downloading of Cover Crops Program data base in the NRCS National Soil Information System (NASIS) data base.
- At present could provide location/reference to the landowner/manager.
- Can we do this legally and have little liability?
- Missouri is a leading state in assessment and data base development of the influence of cover crops on soil properties.

SHAC Soil Health and Cover Crops Data and Sanborn Field Soil Health Data

- Regional North-Central Project
- “Assemblage and Analysis of Missouri Soil Health Data” as part of “Manure Application to Crop Land-Comprehensive Review of Science and Policy” project
- Focusing on organic amendment inputs
- Use of manured soil sample submissions (in the aggregate)
- Use of soil health data from long-term manured plots on Sanborn Field

Recent and Upcoming Events/Activities

- 2nd Annual National Soil Health Institute Meeting; St Louis July 12-14
- Randy Miles is member of national soil survey committee for data base of biological soil properties into NASIS (national soil survey data base)
- Randy Miles is sub-committee chair for development and inclusion of Long-Term Experiment data base for Soil Health Institute.
- Donna Brandt and Saranya Norkaew are part of regional project manure data input from SHAC and Sanborn Field

Strengthening the Long-Term Cover Crops Program and Data Base

- Assurance of proper bulk density can sample
- Assurance of proper use of Soil Survey Information and geo-referencing of the sampling cans.
- New information sheets are (or will be) on the SHAC website.
- Proper, complete information for each component of the sample information sheet.

Great News!

- Donna Brandt was recognized as the “Above and Beyond” staff award recipient in CAFNR this past quarter!
- Was unanimous!

The Missouri Cover Crops Program is a Team Effort

- A great BIG THANK YOU to all of you at the county and district level for working with the land owners and “telling the story”!
- Thank you to the MDNR staff!
- Thank you to the Soil and Water Commissioners for their vision for the program!

Summary

- We are adaptable
- We attempt to suit customers' needs
- We provide additional information as needed
- We welcome input

Goals are to be...

- Quantitative
- Soil specific
- Contextual
- Prescriptive
- Evaluative

Thank You for Your Continued
Support!

Questions?