Dynamic Soil Survey Meeting Notes from July 19, 2021

Attendance: Chad Remley, Suzann Kienast-Brown, Skye Wills, Dylan Beaudette, Alex, Stum, and Stephen Roecker

Opened the meeting with a briefing of status of the Kansas Watershed. All flumes are in as are the water samplers except software has a glitch on sampling. Missed a runoff event as the water was not detected. Climate station is operational. Second climate station is waiting on parts. Soil sensors will be installed in early October.

The group discussed the information received from Carlos during last Friday's meeting. Dylan will be contacting Carlos on a couple of programming issues. Dylan has been working with Carlos on best way to put together the Soil Survey information in R for Coweeta. The process will be able to be repeated for other watersheds.

Announced at this time that SPSD is purchasing soil moisture sensors for Coweeta, Fernow and Hubbard Brook to contribute to documentation of soil moisture at those sites.

There was general discussion on topics until it was pointed out that the new members of the group had not been totally briefed on their role in the DSS project. Chad with supporting input from Suzann and Skye gave a background and overview of DSS plus the current direction of DSS projects.

Group discussed the North Dakota project with the collected field data and spatial data being shared with Dylan, Alex and Stephen. Quite a bit of discussion on goal, and potential products of the project. The North Dakota project has dynamic soil properties and raster spatial data but no soil moisture data. Additional dynamic soil property data may need to be collected. Discussion focused on the site data with land use and management and how to relate to larger area. Similarity matrix or pedotransfer function or both may need to be built to best utilize the DSP data. Discussed comparing NASIS data to site data and developing a correction factor or sliding scale based on land management.

Next meeting is scheduled for August 17 at 3pm CT.