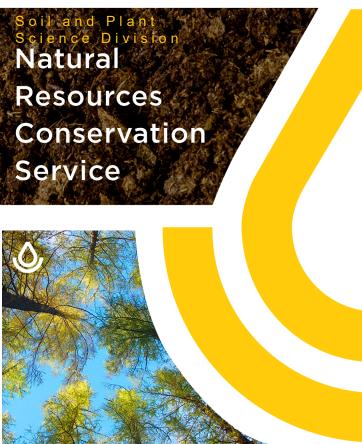


#### **United States Department of Agriculture**





# **Soil Survey Interpretations Team, Report to Leadership**

November 4, 2020 Robert R. Dobos

Natural Resources Conservation Service

### Overview of the team:

- A science group handles the literature review and any other research required to develop the criteria needed to create the model
- A model design, development and maintenance group works in the NASIS client environment to assemble the properties, evaluations, and rules needed to make the model work
- A testing group examines the outputs generated from the interpretations that are being developed to assess the accuracy of the results and suggest ways to improve the predictions.
- A documentation group is tasked with assembling and publishing the metadata for each interpretation







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# What have we done? $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$

#### COVID-19 Response

- \* Supply chain disruptions necessitated depopulation of livestock and dumping of milk
- \* Developed and deployed interpretations for shallow burial of depopulated mortalities and emergency milk disposal
  - \* These are available on Web Soil Survey







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# What have we done? $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$

#### Training

- \* Provided a session of "Science of Interpretations", which acts a science group meeting to develop the criteria new interpretations
- \* Collaborated on a session of "Designing and Developing Interpretations", which acts as the model design and development group activity







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# What have we done? $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$

\* Developed the html and report scripting to allow anyone to interact with new interpretations to facilitate the initiation of the testing group

https://nasis.sc.egov.usda.gov/NasisReportsWebSite/limsreport.a spx?report\_name=Interpretations\_testing

- \* Brought on a detail to work on some persistent problems in providing excellent documentation of interpretations
- \* Collaborated with the Database Team to identify data voids that adversely affected data supplied to FSA









# Support of Agency Goals 🔘 🔘 🔘 🔘









- Continued creation of interpretations for conservation practice standards as screening tools
  - Currently, there are ten screening available for review and testing on the Interpretations Focus Team worksite
  - The most frequently use practice standards are modelled
  - Focus team activities, such as training sessions, are used to gather criteria and construct models
- Continued support of rapidly developing situations, such as the COVID-19 response, natural disasters, and anything else that can be informed with interpreted information







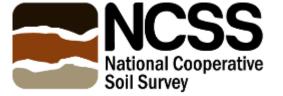


## Present and Future Collaboration \( \rightarrow \)

- \* Working with the Digital Soil Mapping Team to develop an interpretation calculator using raster-based data, along with New Mexico State University and USGS staff
- \* Working with CDC staff on a publication about using soil survey data to map habitat for the fungi that cause Valley fever
- \* Continued interagency and interdisciplinary work on updating forestry interpretations
- \* Introducing temporal aspects to soil survey interpretations, for example, monthly rutting hazard, that will be enhanced by Dynamic Soil Survey









### Present and Future Collaboration (

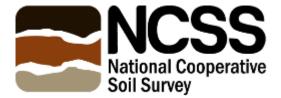




- \* Work with the Research Team because many interpretations are worthy of a refereed journal article, but we need help with writing
- \* Work with the Soil Survey Regions to use some of the dedicated TSS time to work on the designing and developing of interpretations
- \* Work with the Training Team to promote learning about soil survey interpretations
- \* Work with the Database Team to identify data voids and peculiarities
- \* Work with the Dynamic Soil Properties team to explore ways of expediting the incorporation of DSPs into interpretations









## Present and Future Collaboration 🔷 🔾

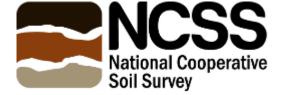




- \* Continue to work with the states to develop and maintain state and regional interpretations
- \* Working with NASIS Modernization to help in the creation of the enhanced Soil Interpretation Generator
- \* Work with the Initial Mapping Team to identify interpretation products to address unique problems in these areas









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