Notes Feb 22, 2023

[NCERA-13 Soil and Plant Analyst's Workshop](https://agext-northdakotastate-ndus.nbsstore.net/soil-testing-laboratory-workshop)

Coralville, IA

Morning committee meeting: 8.00 - 11.30a

Present (alphabetical)

1. Sylvie Brouder (virtually) (Purdue University)
2. Francis Casey (NSDU; liaison)
3. Jason Clark (SDSU)
4. Dave Franzen (NDSU)
5. Dan Kaiser (University of Minnesota)
6. Sunjeong Park (The Ohio State University)
7. Bijesh Maharjan (University of Nebraska)
8. Antonio Mallarino (Iowa State University)
9. Andrew Margenot (University of Illinois)
10. Manjula Nathan (University of Missouri)
11. Andrew Stammer (Wisconsin)

**Discussion**

* Website for soil fertility NCERA-13
  + Make permanent?
  + To have more impact – showcase updated products/deliverables
* Consolidating data for regional recommendations
  + Pursuing outside (e.g., NIFA) funds for postdoc(s) to aggregate data and organize, and then to analyze
  + Do we recruit agronomist or data science person?
  + Topics to reconcile data on:
    - CTSV
    - Removal rates

**Organization**

* Revisit the secretary 🡪 chair model
* Dan K. to chair for new year (March ’23 – Feb ’24)
* Andrew M. to secretary for new year (March ’23 – Feb ’24)
  + Andrew M. to be chair for March ’24 – Feb ’25

**State reports**

* State manuals: where to host? Which server?
  + Editable files for the 2021 publication
  + Dan: keeping in word file lets us edit
* About 13 chapters that serve as references – manuals
* What is the role of NCERA-13 now that we don’t have land grant university labs?
  + E.g., methodological development
* Iowa (Antonio)
  + 10-year release of P, K and liming recs released in 2023
* Missouri (Manjula)
  + State Fertility Working Group applied for a grant to look at soil health related parameters – how this impacts N recommendations
  + Jordon Wade, Director of SHAC
  + Are SHI related to N fertilizer recommendations?
  + USDA Partnerships grant –
  + Gurbir’s hires
  + Testing recommendations
  + Increasing emphasis on soil health at MO
  + Discussion: positions not being filled
* Wisconsin (Andrew S.)
  + New location for testing lab
  + Upgrades on nutrient quantification
  + Forage testing by NIR, except for protein, DM and starch
  + Offering most of the same soil tests; lead method has been modified to be more complete digestion
    - Working with another lab inside of the Wisconsin State Lab of Hygiene (also part of UW-Madison) for heavy metal digestion
  + New projects: soil fertility and C baseline testing in public lands, deep cores
  + CN analyzer; POXC
  + Discussion:
    - Soil health testing, how to standardize – POXC as “active C” in particular
    - Soil C stocks
* Sylvie (Indiana)
  + Archived samples and legacy data
  + There is a role for NCERA-13 in the translation of science to practice (e.g., statistical power)
* Sunjeong (Ohio)
  + Small-scale testing lab run by Sunjeong
  + Began as extension lab (unclear if this is true or not), but University didn’t want to compete with commercial labs and so was turned into research lab 🡪 clientele today is largely faculty and students
  + Diverse analyses; 50% is water, the other half is 50% soils and tissues (even animal samples)
  + 100% self-earning operation, plus grants (internal and external) for equipment replacement
* Bijesh (Nebraska)
  + Sugar beet headway – recs have not been revised in a while
  + Stakeholders not always happy with MRTN recs
* Andrew M. (Illinois)
  + CSTV for P and K being updated over next 4 years
  + P and K rate trials starting next year
  + New agronomist (replacement for Emerson), Giovani Preza Fontes
* Jason (South Dakota)
  + Soil testing lab has been closed for a while
  + P in omission plots to reevaluate CTSV; mostly Olsen; still appears to be about 16 ppm
  + K omission and rates; hard to find responsive sites
  + Soil health
  + N rates, compared to MRTN
* End: Dan’s summary
  + 13 chapters/manuals need to be updated
  + Add/heavily modify on organic matter
* Dorivar via Andrew S (Kansas)
  + Updating N recommendations by refining the mechanistic model they use rather than switching to MRTN