ONLINE TRAINING FOR SOIL AND SITE EVALUATION

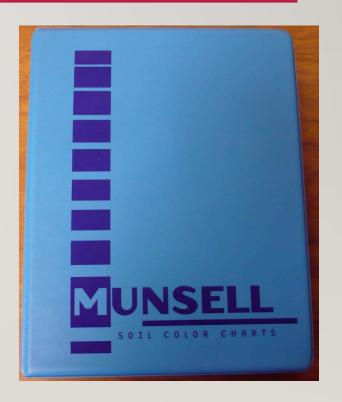
KAREN MANCL, TERESA DE VICTORIA AND BRIAN SLATER

THE OHIO STATE UNIVERSITY

• The materials being presented represent the speaker's own opinions and do NOT reflect the opinions of NOWRA.

SITE AND SOIL EVALUATION

- First step in design
- In Ohio
 - Certified soil scientists
 - Registered sanitarians



SITE AND SOIL EVALUATION

- First step in design
- In Ohio
 - Certified soil scientists not enough
 - Registered sanitarians no soils training required



Registered sanitarians – 18 hours per year

CONTINUING



Onsite installers, pumpers and service providers — 6 hours per year



Engineers –

15 hours per year



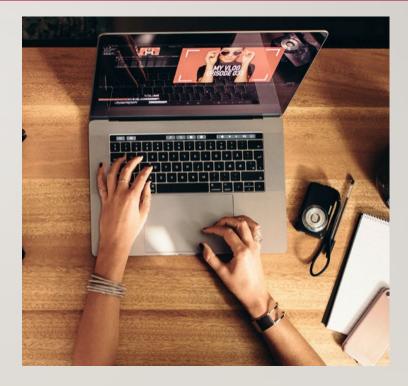
SOIL ENVIRONMENT TECHNOLOGY LEARNING LAB

- 2000 on university farm
- Field instruction for system designers
 - 24 hours over 4 days



PARTICIPATION WAS DECLINING

- Travel cost
- Time away from office
- Asking for an online option



https://digitalmarketinginstitute.com/blog/the-value-and-importance-of-online-learning

OBJECTIVE

- soil's practitioner
- assist soil scientists
- gather background/preliminary information
- identify clearly observable limitations



18 HOURS ONLINE INSTRUCTION

- 3 6-hour segments
 - Soil depth and vertical separation distance
 - Soils in the landscape
 - Water and soils

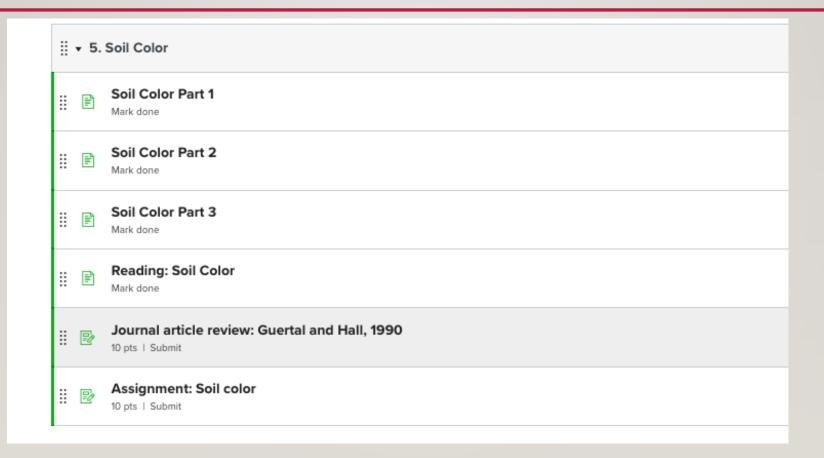


CANVAS INSTRUCTIONAL LEARNING MANAGEMENT SYSTEM

- Branding
- ADA compliance



CANVAS PLATFORM - MODULES



SEGMENTS

- Modules 6 to 9
 - Lectures
 - Demonstrations
 - Readings
 - Assignments

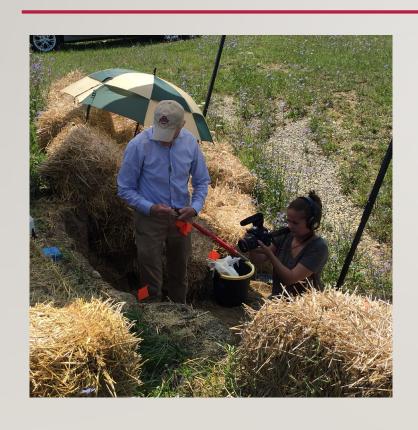


VIDEOS

- Classroom lectures
- Field demonstrations
- 10 minutes or less



FIELD DEMONSTRATIONS

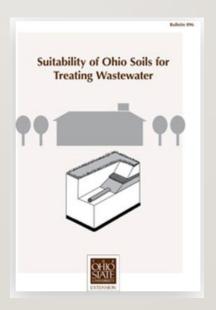


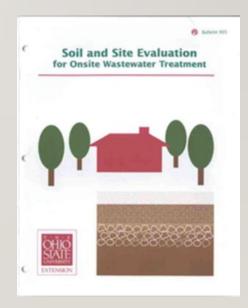


READINGS

• Wetland Soils: Genesis, Hydrology, Landscapes and Classifications.

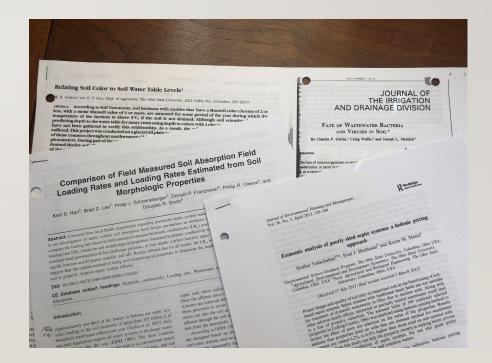
Vepraskas, M. and C. Craft. 2016.





10 JOURNAL ARTICLES

• Scientific research on wastewater treatment



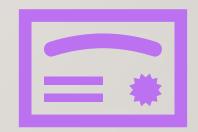
ASSIGNMENTS – HOME AND GARDEN

Soil Color – Using Munsell Color Book

	Hue	Value	Chroma
Coffee			
Chili powder			
Curry powder			
Coco powder			

SEGMENT QUIZ





Must complete assignments before quiz opens

Must pass quiz to receive 6-hour certificate

RESULTS



Pilot offering – 3 sanitarians and I contractor



2021 offering – 10 sanitarians and 2 contractors

FUTURE – AFTER COVID

Following online – 3 6-hour field days

PILOT FIELD DAY

- Students know what to do
- Low confidence
- Repeat field observations with soil scientist

SETLL.OSU.EDU

