2017 ASA, CSSA, and SSSA Annual Meeting (Oct. 22-25) | Tampa, Florida, USA

Healthy Soil Healthy Environment – an Ohio State University Extension Signature Program

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Introduction

Maintaining a healthy and productive soil is the foundation of sustainable agriculture. However, a majority of producers, youth in agriculture, educators, and master gardeners are unaware of the importance and ways to manage soil health. The OSU Healthy Soils – Healthy Environment signature program is intended to bridge this knowledge gap by providing information on tools, and curricula related to soil health, its assessment, and management under different agricultural settings. Program activities, key products, and evaluation

OSU Soil Quality Field Test Kit



Workshops, field days & farm shows

Knowledge assessment

N = 148 (4 events)

Soil Health is an important issue

I can change my soil's productivity

My soil has a compaction problem

Reduce tillage or no-till

Plant cover crops

I have collected standard soil tests in last 3 yrs

I have improved my knowledge on soil health

OSU Soil Organic Matter Calculator



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Paper No. 107100 | Poster No.1305

The signature program intends to serve a variety of clientele including: All farmers (traditional, organic, no-till, sustainable or low-input), landowners, 4-H and youth, urban gardeners (youth and adults), Master Gardeners, consultants, ag retailers and salesmen, underserved population, and the general public. It also provides a source for Extension educators to access research, teaching, and outreach materials needed to deliver educational programming in soil health for producers.

Program goals

The overall goal of the program is to "Improve Ohio's Soil Health". Following specific goals are identified:

(1) To bring together researchers, educators, farmers, 4-H youth, private and public agencies, and the general public through a multi-channel network.

(2) To assimilate research-based knowledge related to soil health using short and long-term studies in Ohio and neighboring states.

(3) To develop educational material, and design curricula for dissemination of knowledge.

Rotation # 1 2 Years 1 1 Crop Corn Soybeans 0-NONE Yield (bu/ac) 120 55 PRE 9240 7331 0 Image: Repeat this Crop Sequence for rest of the period CANCEL Image: Cancel of the definition of the defin

go.osu.edu/SOMcalculator

4-H Youth Education



Feedback infographics

Program promotion



Program outcomes

THE OHIO STATE UNIVER COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

HEALTHY FARMS that are:

 More economically viable due to less chemical and fertilizer inputs

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(4) To organize and facilitate educational and outreach activities related to soil health.

(5) To offer comprehensive soil health assessment, interpretation and management recommendations through OSU's research lab framework.

(6) To build partnership and collaboration for seeking extra-mural for innovative research, Extension and education projects related to soil health and sustainable agriculture.





- More sustainable due to less water and nutrient losses
- **URBAN AGRICULTURE**
- Promoting cover crops, soil tests for toxic contaminants, techniques for sustainable food production, etc.

YOUTH

- Increased awareness of soil health
- Increased knowledge of soil management
- 4-H youth training to improve understanding relationship among soil health, water quality, and healthy food production

Abstract

Healthy Soil Healthy Environment is a new Ohio State University Extension signature program that will create a soil health education and outreach network comprised of Ohio State researchers and OSU Extension faculty and educators. The program's long-term goal is to help improve Ohio's soil health and environment by educating farmers, youth and the general public. The OSU Extension Healthy Soil Healthy Environment signature program is intended to bridge this knowledge gap by providing tools and curricula related to soil health, and its assessment and management in different agricultural settings. The signature program team will develop traditional and electronic educational materials for continued education on soil health. The team will conduct in-service, training and workshops, field days, and radio/TV talk shows focused on sustainable agricultural management practices. The team is also developing curriculum that

Program Highlights

- □ Soil health network
- □ Soil health workshops
- □ Youth education curriculum
- Field Days
- □ Soil health newsletter
- Webinars
- □ Soil health testing protocols
- Soil health test interpretations
- □ SH management recommendations

Program information



could be incorporated into statewide 4-H and other youth education programs such as the Junior

Master Gardener Volunteer program.



OHIO STATE UNIVERSITY SOUTH CENTERS

HEALTHY SOIL HEALTHY ENVIRONMENT EXTENSION SIGNATURE PROGRAM

soilhealth.osu.edu | southcenters.osu.edu

CFAES provides research and related educational programs to clientele on a nondiscriminatory basis. For more information: go.osu.edu/cfaesdiversity.

