

# NEW YORK SOIL HEALTH

## *Current Priorities and Plans for 2018-2019*

### New York Soil Health for Healthy Food, Profitable Farms, and Protection of Natural Resources

#### Poor soil health has economic and environmental costs

Loss of soil organic matter leads to unhealthy soils, which become less resilient to weeds, pests, and drought, and more prone to flooding and soil erosion. Rebuilding soil organic matter increases farm profitability, and has environmental co-benefits, such as reducing chemical runoff into waterways, and storing carbon in soils that otherwise would be in the air as the greenhouse gas, carbon dioxide.



#### Partnerships addressing constraints to improved soil health practices

Interest in soil health practices such as reducing tillage, planting winter cover crops, and using compost amendments has expanded greatly in recent years, yet constraints to adoption persist. This state-funded project facilitates collaboration among the many on-going efforts across the state to implement research, outreach, and policy solutions to address these constraints.



#### Plans and Key Accomplishments

- **Quantifying economic and environmental benefits.** A statewide survey has been completed to identify costs and benefits of soil health practices. Publication expected late 2018. Results will inform a more detailed analysis in collaboration with USDA-NRCS economists, farmers, and others.
- **Strengthen partnerships and outreach.** Since April 2017 through August 2018 we participated in 34 events reaching almost 2000 farmers and other stakeholders. In addition to field days and workshops, this included Empire Farm Days, the NE Cover Crops Annual Conference, and the New York Soil Health Summit. A website has been established, and new curricula, resources, and a statewide communication strategy are being developed.
- **Soil Health Roadmap and Summit.** Farmers and other stakeholders from over 10 organizations and businesses are participating in the visionary "Roadmap" document. The first statewide Soil Health Summit was held July 18, 2018.
- **Innovative cropping systems research.** Soil health and productivity effects of a long-term organic systems project, and results of an apple orchard ground cover study, are being analyzed and prepared for publication. Future research plans include: evaluation of perennial grains; co-benefits of cover crops for white mold disease suppression; addressing unique challenges for vegetable crops; and key soil health indicators for apple orchard management.
- **Evaluation of composts and biochar soil amendments.** These studies involve optimizing compost mixes to remediate degraded soils, and upscaling a process for nutrient fortification of biochar with dairy manure waste.
- **Soil health and natural climate solutions.** An analysis of potential climate change mitigation benefits associated with improved soil carbon and nitrogen management is underway and will be completed by March 2019.



**For more information: [newyorksoilhealth.org](http://newyorksoilhealth.org)**