



Dr. Ray R. Weil
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Area of Expertise:

- Soil Fertility
- Soil Ecology
- Agronomy and cropping systems
- Plant nutrition
- Soil-Plant Relationships
- Water Quality

Focus of Research:

- Innovative cover cropping systems
- Soil health impacts of crop and cover crop management
- Nitrogen capture, cycling and efficient utilization
- Phosphorus cycling, soil chemistry and management
- Sulfur cycling and management
- Soil organic matter and carbon management
- Efficient use of nutrient resources

Current Funded Projects (Source):

- Rapid Soil Information – SoilDoc (Columbia University/ DuPont, Inc.)
- Deep Soil Nitrogen: Resource for Sustainability in Mid-Atlantic Using Early Cover Crops (USDA- SARE)
- Deep Soil Nutrients - Neglected Resource for Profitability and Environmental Stewardship (Maryland Soybean Board)
- Sulfur to enhance quality and yield of soybean protein (Maryland Soybean Board)
- Priming for Production: Podcast on Soil (USDA- SARE)
- On-farm and isotopic evaluation of deep soil nitrogen capture and cycling by cover crop mixtures (USDA- SARE)
- Forest Soil Quality Monitoring Internships (DOI-Natl Park Service)
- High Yield Conservation (Farm Journal/Howard Buffett Fnd)