Comprehensive Assessment of Soil Health

From the Cornell Soil Health Laboratory, Department of Soil and Crop Sciences
School of Integrative Plant Science, Cornell University, Ithaca, NY 14853
https://soilhealthlab.cals.cornell.edu

Grower:
Carlos Aguilera
27 Rachel Carson Way
Ithaca, NY 14850
farmers@westhavenfarm.net

Agricultural Service Provider:
Jenna DeRario
Cornell
jd965@cornell.edu

Sample ID: AA2716
Field ID: ~~A5~~ CONVENTIONAL
Date Sampled: 03/22/2024
Given Soil Type: Howard Gravelly Loam
Crops Grown: MIX/MIX/MIX
Tillage: 1-7 inches
Coordinates: Latitude: 42.444835600000
Longitude: -76.536486600000

Measured Soil Textural Class: **loam**

Sand: **42%** - Silt: **44%** - Clay: **13%**

Group	Indicator	Value	Rating	Constraints
physical	Predicted Available Water Capacity	0.22	83	
physical	Surface Hardness	132	64	
physical	Subsurface Hardness	300	50	
physical	Aggregate Stability	15.0	18	Aeration, Infiltration, Rooting, Crusting, Sealing, Erosion, Runoff
biological	Organic Matter Soil Organic Carbon: 2.21 / Total Carbon: 2.23 / Total Nitrogen: 0.23	3.5	69	
biological	Predicted Soil Protein	7.10	57	
biological	Soil Respiration	0.6	45	
biological	Active Carbon	759	91	
chemical	Soil pH	6.6	100	
chemical	Extractable Phosphorus	29.0	100	
chemical	Extractable Potassium	129.9	100	
chemical	Additional Nutrients Ca: 1336.6 / Mg: 149.3 / S: 3.5 Al: 7.8 / B: 0.21 / Cu: 0.20 Fe: 1.0 / Mn: 1.9 / Zn: 0.7		100	

Overall Quality Score: **73** / High