

11/02/2023	143	BACK FIELD	WALDO
PRINT DATE	LAB NO.	SAMPLE IDENTIFICATION	COUNTY

SOIL QUALITY ANALYSIS
REPORT FOR:

MAINE SOIL TESTING SERVICE
UNIVERSITY OF MAINE 
5722 DEERING HALL
ORONO, MAINE 04469-5722

EXAMPLE SOIL HEALTH REPORT

Physical & Biological Factors

BIOLOGICAL & PHYSICAL PARAMETERS
(see Numerical Results section for more information)

<i>Biological factors</i>	Level Found	LOW	OPTIMUM	HIGH
Organic Matter(%)	5.8	+++++		
POXC (active C)	975	+++++		
Respiration(CO2)	80	+++++		
Potential N Min.	60	+++++		
<i>Physical factors</i>				
WS Aggregates (%)	27	+++++		
Available Water(%)	11	+++++		
Pot. Root Depth(in)	18	+++++		

Soil Texture Class: Sandy loam TOC: 3.0 % Total N: .30 % C/N ratio: 9.9

RECOMMENDED ADDITIONS & MANAGEMENT PRACTICES

To Improve Soil Biological Health:

Include green manure crops in rotation to improve OM & biological activity.

Increase use of compost or cover crops to improve OM & biological activity.

To Improve Soil Workability & Water Handling

Include sod or grain cover crops to build/maintain structure, water storage, & drainage.

Manure will also improve soil structure, water storage, & drainage.

Avoid traffic on wet soil to minimize compaction.

Break up traffic pan by mechanical ripping and/or deep rooted crops.

Improve infiltration with surface mulch, zone tillage, or deep-rooted crops.

Suggested Reading & References:

Building Soils for Better Crops - Sustainable Soil Management, USDA-SARE
(sare.org/Learning-Center/Books)

USDA Soil Health website (nracs.usda.gov/wps/portal/nracs/main/soils/health/)

NUMERICAL RESULTS (Test methodology: Biomass by 25C incubation/Solvita, Organic matter by LOI, PMN from 40C incubation, WSA by Eijkelkamp, Available H2O from % SME, Hardness by penetrometer, Rooting depth to 300 psi)

Level Found	5.8	975	80	60	27	11.1	100	250	18
% Organic Matter	Prmanganate Ox. C (ppm)	Soil Res. CO2(ppm)	PMN (ppm)	% Stable Aggregates	% Avail. Water	Topsoil Hardness	Subsoil Hardness	Pot. Root Depth(in)	
Optimum Range	5-8 %	500-800	110-200	50-100	> 40	> 8	< 150	< 250	12-24

Additional Results or Comments: