2023 Cornell Assessment of Soil Health Submission Form - PRINTABLE spreadsheet

1. **Double bag each sample.**
2. **Enter your information into this form, preferably electronically. IMPORTANT - complete all fields where possible. Print two copies.**
3. **Save one copy of the form for your records.**
4. **Place second copy into a plastic bag for protection and put it into the box with your samples.**
5. **Send Excel file of this form via email.**
6. **We will contact you in ~8-10 weeks for billing. Allow 6-8 weeks for results.**

Video for how to package and ship samples:
https://tinyurl.com/vkf2x55

IMPORTANT Information Regarding Shipping Soils:

+ NOTE: We require **state** and **county** of origin be included on this form.
+ All samples must be double bagged and secured in the shipping box.
+ Soil samples from USDA-APHIS Regulated counties will incur a 15% surcharge as they require Quarantined treatment upon arrival to us.
https://www.aphis.usda.gov/plant_health/permits/organism/soil/downloads/Fed-SoilRegs.pdf
❖ Some counties within the US are **PROHIBITED** meaning you cannot bag, box or ship from these areas.
❖ Visit https://bit.ly/3cR4ra9 for a list of current **PROHIBITED COUNTIES.**

For Lab Use Only

Mail Samples To:

Cornell Soil Health Lab
804 Bradfield Hall
306 Tower Rd
Ithaca, NY 14853 USA
Email:
soilhealth@cornell.edu

1 **State** (sample origin)	1 **County** (sample origin)	2 **Out-side U.S.?**	3 **Who is paying for the samples?** (Name or Email)	4 **NRCS project? check here** ☐ **Grower Name & Mailing Address**	4 **Grower Email Address**	5 **Ag Service Provider Name**	5 **Ag Service Provider Email Address**	5 **Ag Service Provider Phone Number**
REQUIRED	REQUIRED		☐ check enclosed					

6 **SAMPLE NUMBER**	7 **FIELD I.D. OR SAMPLE NAME** (WRITTEN ON SAMPLE BAG)	8 **DATE SAMPLED** (mm/dd/yy)	9 **TESTING PACKAGE** Basic or Standard or Standard **PLUS** (**S+**) or NRCS **216**	10 ***ADD-ON TESTS** *(see page 2)* *Available Water Capacity **(AWC),** *ACE Protein **(PRO),** *Soluble Salts (**SS**), *Heavy Metals **(HM)** *Bulk Density **(BD)**	11 **GPS COORDINATES** for Field or Sample *online help at* https://tinyurl.com/wyr6qd5		12 **SOIL NAME** (IF KNOWN)	13 **TILLAGE TYPE 2020** 1 = no till 2 = 1-7" 3 = 7-9" 4 = > 9"	14 **CROP INFORMATION** Find Crop Codes at: https://dairyone.com/download/crop-codes-for-agro-one-nutrient-guidelines/		
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BASIC Soil Health Analysis Package $90/sample (sample size 4 cups)

Recommended for: field crops, dairy, lawns

> Soil pH, Organic Matter, Modified Morgan Extractable P, K, Ca, Mg, S, Al, B, Cu, Fe, Mn, Zn
> Wet Aggregate Stability
> **Active Carbon** ***replaced Soil Respiration 2020**
> **Total Carbon and Total Nitrogen and Soil Organic Carbon**
> Surface & sub-surface hardness (optional--*you provide the penetrometer readings*)

STANDARD Soil Health Analysis Package $130/sample (sample size 5 cups)

Recommended for: organic production, veg crops, problem diagnosis, home gardens

> Soil pH, Organic Matter, Modified Morgan Extractable P, K, Ca, Mg, S, Al, B, Cu, Fe, Mn, Zn
> Wet Aggregate Stability
> Soil Texture
> Active Carbon
> Soil Respiration
> **Total Carbon & Total Nitrogen & Soil Organic Carbon** ***replaced ACE Protein 2020**
> **Surface & subsurface hardness (optional-you provide the penetrometer readings**
> *Predicted* ACE Protein (Lab test available as Add-On) *info here:* https://bit.ly/2KDTLQe
> *Predicted* Available Water Capacity (Lab test available as Add-On) *info here:* https://bit.ly/2KDTLQe

STANDARD PLUS Soil Health Package $150/sample (sample size 5 cups)

> **STANDARD Package** (above) **plus** lab measured Soil Protein "bioavailable N"

NRCS 216 Soil Health Package $165/sample (sample size 5 cups)

Recommended for: USDA-NRCS Projects, CIG Soil Health Demo Trials

> **STANDARD PLUS Package** (above) **plus** EC electrical conductivity (soluble salts)

Cornell users with campus R+B account receive ~15% discount. See website. Public prices posted here

Add-on Tests for the Soil Health Analysis Packages

Choose *ADD-ON test in zone 10 (page 1)

***Available Water Capacity (Lab Analysis) $30/sample**

Recommended applications: projects where measured data is required

***ACE Soil Protein (Lab Analysis) $30/ sample**

Recommended applications: research projects where measured "bioavailable nitrogen" data is required

***Soluble Salts $15/sample**

Recommended applications: high tunnels, lawns, urban areas, composted areas, home gardens, landscaped areas

***Heavy metals $30/sample**

Recommended applications: urban gardens, contaminated areas

*** Bulk Density $30/sample**

Recommended applications: A fixed-volume cylinder is repeatedly used to collect soil volumes into a separate BD sample bag. Data used to convert % carbon to tons carbon per acre

*Many of the soil analyses in the CASH packages are available as individual tests. Submission form and details about tests at:
https://cornell.app.box.com/s/7xjlv2miq21nfmgb70xroxdtduy9hrf9
https://soilhealthlab.cals.cornell.edu/testing-services/individual-soil-analyses/

15 **Soil penetrometer data-** record the highest number (PSI) encountered in the 0-6" and the 6-18" depth for each subsample location

Sample #	location 1		location 2		location 3		location 4		location 5		location 6		location 7		location 8		location 9		location 10	
	0-6"	6-18"	0-6"	6-18"	0-6"	6-18"	0-6"	6-18"	0-6"	6-18"	0-6"	6-18"	0-6"	6-18"	0-6"	6-18"	0-6"	6-18"	0-6"	6-18"
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