



**BASIC Soil Health Analysis Package \$60/sample (sample size 3 cups)**

- Recommended applications:** field crops, dairy, lawns
- > Soil pH, Organic Matter, Modified Morgan Extractable P, K, micronutrients
  - > Wet Aggregate Stability
  - > Soil Respiration
  - > Surface , sub-surface Hardness interpretation (optional- *you provide the penetrometer readings*)

**STANDARD Soil Health Analysis Package \$110/sample (sample size 4 cups)**

- Recommended applications:** organic production, veg crops, problem diagnosis, home gardens
- > Soil pH, Organic Matter, Modified Morgan Extractable P, K, micronutrients
  - > Soil Texture
  - > Wet Aggregate Stability
  - > Available Water Capacity
  - > Surface and sub-surface Hardness (optional- *you provide the penetrometer readings*)
  - > Active Carbon
  - > Soil Respiration
  - > Soil Protein

**EXTENDED Soil Health Analysis Package \$170/sample (sample size 6 cups)**

- Recommended applications:** urban/ suburban gardens, problem diagnosis, soil health initializing, home gardens, landscaped areas, corner lots, brownfields
- > Includes the **STANDARD Soil Health Analysis Package PLUS**
  - > Add-on Soluble Salts
  - > Add-on Heavy Metal Screening
  - > Add-on Bean Root Bioassay

**Useful Add-on Tests for the BASIC and STANDARD Package**

- Soluble Salts \$8/sample**  
**Recommended applications:** high tunnels, lawns and urban areas, heavily composted areas, home gardens, landscaped areas
- Heavy Metal Screening \$30/sample**  
**Recommended applications:** urban areas, home gardens, playgrounds, brownfields
- Bean Root Bioassay \$20/sample**  
**Recommended applications:** home gardens, vegetables, problem areas
- Hot Water-soluble Boron \$15/sample**  
**Recommended applications:** small fruits, vegetables, home gardens

15 **Soil penetrometer data-** record the highest number 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	
	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"
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																

16

**All of the soil analyses found in the Packages or the Add-ons listed above are available from the Cornell Nutrient Analysis Lab. Use the Submission form S at this link:**

[http://cna1.cals.cornell.edu/forms/pdfs/CNAL Form S.pdf](http://cna1.cals.cornell.edu/forms/pdfs/CNAL_Form_S.pdf)

## CASH Submission Form Guide

This guide is intended to provide step-by-step directions for submitting the Comprehensive Assessment of Soil Health (CASH) Form to the Cornell Soil Health Laboratory. If you have questions, please contact the lab at [soilhealth@cornell.edu](mailto:soilhealth@cornell.edu) or (607) 227-6055.

CASH submission form:

1. Record sampling location for both State and County.
2. Mark "Y" if samples are from outside the contiguous United States. These soils are considered quarantined and you must contact the Cornell Soil Health Lab prior to shipping – [rrs3@cornell.edu](mailto:rrs3@cornell.edu). Special shipping and lab protocols are in place and they are subject to an additional 15% processing surcharge.
3. Record contact name or email for billing purposes. Checks can be made out to Cornell University. If you pay by check, please indicate you did so by marking the box. If not, you will be contacted in 2-3 weeks with a link to a secure pay-portal. This will enable you to pay by credit card.
4. Record grower name and/or sample location, address and email.
5. Record Ag service provider name, email and phone number, if applicable.
6. Number individual samples sequentially.
7. Record field identification (ID) or sample name for each sample submitted.
8. Record date sampled in mm/dd/yy format.
9. Record the testing analysis package. See page 2 for a list and more details or visit [bit.ly/CSHLPackages](http://bit.ly/CSHLPackages). You can simply put "B" for Basic, "S" for Standard, or "E" for Extended.
10. For Add-on (Additional) testing see page 2 for list and more details or visit [bit.ly/CSHLPackages](http://bit.ly/CSHLPackages).
11. Record GPS coordinates in decimal degrees for each sampling location. (It is not necessary to submit each sub-sample GPS location just the location of the area/field samples have been taken from.) Follow this link to find GPS coordinates: <https://itouchmap.com/latlong.html>
12. Record soil series name. Follow this link for the Web Soil Survey: <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>
13. Record 2017 tillage depth using codes on submission form. No-tillage = 1; 1-7 inches = 2; 7-9 inches = 3; > 9 inches = 4.
14. Enter crop codes for past three years, including the current year. Codes can be found here: [bit.ly/2fjULu1](http://bit.ly/2fjULu1).
15. Record the same sequential number from box 6 on page 1. Then record the highest number encountered in the 0-6" and 6-18" depth of insertion of the penetrometer for each subsample location. For more information on how to take readings visit [bit.ly/SHPenetrometer](http://bit.ly/SHPenetrometer).
16. Email form to [soilhealth@cornell.edu](mailto:soilhealth@cornell.edu) and enclose a copy of submission form in the box with samples.

Additional information on soil sampling, sample submission and sample shipping protocol is available on the CSHL website: [soilhealth.cals.cornell.edu/testing-services/](http://soilhealth.cals.cornell.edu/testing-services/)

### **IMPORTANT - Cornell Soil Health Laboratory Guide to Prohibited Counties**

The Cornell Soil Health Laboratory cannot accept samples from certain counties within the states of **California, Florida, Idaho, Oregon and Texas**. These samples should neither be package nor shipped. Soil received from these counties will be treated as quarantined and destroyed without processing.

For our current list of **prohibited** counties please visit [bit.ly/SoilHealthProhibitedCounties](http://bit.ly/SoilHealthProhibitedCounties).

**NOTE:** Due to APHIS regulations we cannot perform the Root Health Bio-assay in prohibited counties in the country. As with all potentially prohibited soils, please visit [bit.ly/SoilHealthProhibitedCounties](http://bit.ly/SoilHealthProhibitedCounties) for a complete list of states and counties that fall into this category.