

Cover Crop Biomass Analysis

Why test?

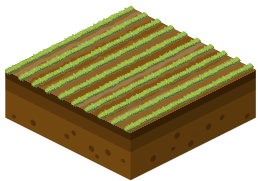
One of the many benefits associated with implementing cover crops is their ability to sequester nutrients out of the soil profile and recycle them back into the soil for future crops. Growers who plant green into a cover crop have noted being able to fix upwards of 100 pounds of nitrogen. But how can you measure nutrient availability to help guide future adjustments?

AgSource Laboratories cover crop biomass analysis helps quantify the amount of nutrients the cover crop was able to sequester.

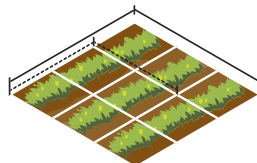
Our analysis includes a measurement of N and other key nutrients taken up by the cover crop and indicates how readily available those nutrients will become in the soil for the next crop. A measure of C:N ratio is used to estimate the rate of decomposition.

Collecting a Cover Crop Biomass Sample

When to Sample: The best time to collect a sample is just before planting or terminating your cover crop. Sample prior to a killing frost if sampling a winter killed species of cover crop in the fall.



1 Find a representative area of the field



2 Mark off an area either 2'x2' or 3'x3' – denote which is used on the submission form



3 Cut all the above ground cover crop plant tissue in the square, brush off any soil residue



4 Determine the wet weight of your sample in the field and record on the submission form



5 Mix up the cuttings and fill a tissue bag with 0.5-1.0 lbs. of sub sample

Shipping Instructions

1. Label the sample bag with your name and identify the sample the same as on the form.
2. Complete the entire Plant Tissue Test submission form, which can be found at agsource.com/submission-forms.
3. Package and send sample to your nearest AgSource Laboratories location:

AgSource's cover crop biomass report displays a complete nutrient analysis of macro, micro and secondary nutrients as well as % carbon and % dry matter.

Cover Crop Analysis Report			
Submitted By: 888888	Submitted For: AgSource EN_PLANT_COVERCROP	Lab: AgSource Laboratories	Lab: AgSource Laboratories
PO Box 7 Bonduel, WI 54107	Client: 888888	Client: 888888	Client: 888888
Date Received: 01/15/2021	Date Reported: 01/15/2021	Field ID: TESTFIELD1	Field ID: TESTFIELD1
Sample ID: Test03	Field ID: TESTFIELD1	Growth Stage: 	Growth Stage:
Crop: RYE WHOLE			
Results of Laboratory Analysis, Dry Sample			
Phosphorus P, %	0.17	Nitrogen N, %	1.4
Potassium K, %	3.88	Phosphorus P2O5, %	0.4
Calcium Ca, %	0.48	Potassium K2O, %	20.2
Magnesium Mg, %	0.68	Calcium Ca, %	10.2
Sulfur S, %	0.41	Magnesium Mg, %	7.2
Zinc Zn, ppm	8.4	Sulfur S, %	0.4
Manganese Mn, ppm	8.4	Zinc Zn, ppm	8.4
Copper Cu, ppm	1.4	Manganese Mn, %	0.11
Iron Fe, ppm	18.4	Copper Cu, ppm	0.01
Boron B, ppm	0.4	Iron Fe, ppm	1.8
Aluminum Al, ppm	18.4	Boron B, ppm	0.05
		Aluminum Al, ppm	1.9
Carbon C, %	43.0	Carbon C, %	46.4
Dry Matter DM, %	88.0	C:N Ratio	3.3
Fresh Weight FW, g	100.00	Total Yield	Tonnes/ha
Area Sampled 10.0 m ²		Fresh Biomass Actual	7.00
		Dry Biomass 100% dry	6.20

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