



CORNELL NUTRIENT ANALYSIS LABORATORY

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Field Crops

Crop	When to sample	Where to sample	How many leaves to sample
Alfalfa	Early bloom	Top 6" or upper 1/3 of plant	12-30
Canola	Before seed set	Mature leaf	60-70
Clover	Before bloom	Upper 1/3 of plant	30-40
Corn/sweet corn	Seedling stage or Before tasseling or tasseling to silking	All above ground portions, 1 st fully developed leaf from top, leaf opposite & below ear	15-20 15-20 12-20
Grasses /forage mixes	Before seed	Upper 4 leaves	30-40
Small grains(oats, barley, wheat)	Seedling stage Before heading	All above ground 4 uppermost leaf blades	25-40 25-40
Soybeans	Before or at bloom	Mature, trifoliolate leaves from top of plant	20-30
Sorghum(milo)	Before or at heading	2 nd leaf from top of plant	20-30
Sunflowers	Before heading	Recently mature leaf	20-30

Ornamentals, flowers and turf

Crop	When to sample	Where to sample	Number to sample
Ornamental trees and shrubs	Current year's growth	Fully developed leaves	30-100
Turf	Normal growing	Leaf blades AVOID soil contamination	2 cups
Roses	At bloom	Upper leaves on flowering stem	20-30

Fruit

strawberry	Midseason	Recently mature leaves	25-40
raspberries	Midseason	Recently mature leaves from laterals of primocanes	30-50
Grapes	At bloom	Petioles from leaves adjacent to fruit clusters	50-100

Vegetables Crops

Crop	When to sample	Where to sample	How many to sample
Beans	Seedling stage or Prior to or at bloom	All above ground portions	20-30
		Mature leaf	20-30
Root Crops (carrots ,onions, beets, etc.)	prior to root or bulb enlargement	Center mature leaves	20-30
Leaf crops(lettuce, spinach, etc.)	Midseason	Mature leaves	12-20

Cabbage, Cauliflower	Before heading	Mature leaf at center of whorl	12-20
Potatoes	Before or at bloom	3 rd -6 th leaf from tip	25-30
Tomato (field)	Midbloom	3 rd -4 th leaf from growing tip	15-20
Tomato (greenhouse)	Midbloom	Young plants: Leaves next to 2 nd & 3 rd clusters	20-25
		Older plants: leaves from 4 th -6 th clusters	20-25

- Air dry the samples and enclose in an envelope or paper bag.
*Plastic bags retain moisture and build up static electricity.
- Samples dried and ground to lab specifications can receive a discount
*Dried @70°C and ground to pass a 40 mesh screen. Contact the lab for more information.

Mail samples to:

Cornell Nutrient Analysis Laboratory
 Cornell University
 306 Tower Road
 G01 Bradfield Hall
 Ithaca, New York 14850