

PLANT TISSUE SAMPLING GUIDE

Crop & Stage of Growth	Number of Plants to Sample	Plant Part to Sample
CORN		
Seedling stage (less than 12")	20 – 30	All of the above ground portion
Prior to tasseling	15 – 25	First fully developed leaf below whorl
From tasseling & shooting to silking	15 – 25	Entire leaf at the ear node (immediately above or below it)
<i>Sampling after silking is not recommended</i>		
SMALL GRAINS		
Seedling stage (less than 12")	40 – 50	All of the above ground portion
Prior to heading	40 - 50	The four uppermost leaves
<i>Sampling after heading is not recommended</i>		
SOYBEANS & DRY BEANS		
Seedling stage	20 - 30	All of the above ground portion
Prior to or during initial flowering	20 - 30	Uppermost fully developed trifoliolate leaf
<i>Sampling after pods begin to set is not recommended</i>		
SUGAR BEETS		
Mid-season	30 - 40	Center fully-expanded leaf
ALFALFA		
Prior to initial flowering	20 - 30	Top six inches of plant
ASPARAGUS		
Prior to August 1	15	Top 6 inches of fronds
August - September	10	Top 20 inches of fronds
BEANS, SNAP		
	20	Most recently fully developed trifoliolate leaves
BEET, TABLE		
	20	Most recent fully developed leaf
BROCCOLI		
	15	Most recent fully developed leaf
CABBAGE		
Prior to heading	15	Most recent fully developed leaf
Heading	15	Wrapper leaf
CANTALOUPE – MUSKMELON		
	15	5 TH leaf from growing tip
CARROT		
	20	Most recent fully developed leaf

Crop & Stage of Growth	Number of Plants to Sample	Plant Part to Sample
CELERY		
First 6 weeks of growth	15	Whole plant
6 weeks to harvest	15	Most recent fully elongated petioles
CORN, SWEET		
Prior to tasseling	15	5 th leaf from growing tip
Tasseling to end of silking	15	5 th leaf from growing tip <u>or</u> ear leaf
CUCUMBER	15	5 th leaf from growing tip
LETTUCE, HEADING TYPES		
Prior to heading	15	Most recent fully developed leaf
Heading	15	Most recent fully developed leaf
LETTUCE, LEAF TYPES	15	Most recent fully developed leaf
Up to 5 leaf stage	20	Whole plant tops
Beyond 5 leaf stage	20	2 most recent fully developed leaves
PEA	30	Most recent fully developed leaf
PEPPER	20	Most recent fully developed leaf
POTATO	30	Petiole of most recent fully developed leaf
PUMPKIN	15	Leaf blade & mid-rib from most recent fully developed leaf (remove petiole)
RADISH	30	Whole plant tops or most recent fully developed leaf
SPINACH	20	Most recent fully developed leaf
SQUASH	20	Most recent fully developed leaf (remove petiole)
TOMATO		
Prior to bloom	20	Most recent fully developed leaf
Blooming	20	Fully developed leaf adjacent to the top bloom
TURNIP	20	Most recent fully developed leaf
WATERMELON	15	5 th leaf from growing tip

Crop & Stage of Growth	Number of Plants to Sample	Plant Part to Sample
APPLE, APRICOT, ALMOND, PRUNE, PEACH, PEAR, CHERRY		
Mid-season	50 - 100	Leaves near base of current year's growth or from spurs
WALNUT		
6 – 8 weeks after bloom	30 - 35	Middle leaflet pairs from mature shoots
GRAPES	60 - 100	Petioles from leaves adjacent to fruit clusters
RASPBERRY	20 – 40	Youngest mature leaves on laterals or "primo canes"
Strawberry		
Mid-season	50 - 75	Youngest fully expanded leaves
ORNAMENTAL TREES		
Current year's growth	30 - 100	Fully developed leaves
ORNAMENTAL SHRUBS		
Current year's growth	30 - 100	Fully developed leaves
TURF		
During normal growing season	½ pint	Leaf blades. Clip by hand to avoid contamination with soil/other materials
ROSES		
During flower production	20 - 30	Upper leaves on flowering stem
CHRYSANTHEMUMS		
Prior to or at flowering	20 - 30	Upper fully expanded leaves on flowering stem
POINSETTIAS		
Prior to or at flowering	15 - 20	Most recently fully expanded leaves