

PLANT PORTION FOR SAMPLING

FIELD CROPS	WHEN TO SAMPLE	PLANT PART TO SAMPLE	NUMBER OF PLANTS TO SAMPLE
Alfalfa	At pre-bloom stage or before	Top 3 inches of plant	45-55
Cereal Grains (including rice)	Seedling stage	All the above ground portion	50-75
	Prior to heading	First fully opened leaf from top of plant	30-40
Clover	Prior to bloom	Mature leaf blades about 1/3 of the way down the plant	50-60
Corn	Seedling stage	All the above ground portion	25-30
	Prior to tasselling	The fully developed leaf below the whorl	15-20
	From tasselling to silking	The leaf at the ear node or the one above or below it	15-20
Cotton	Any stage	Youngest fully mature leaves or main stem	30-35
Hay, Forage, or Pasture grasses	Before seed head emerges	First fully opened leaf from top or at the stage for best quality	50-60
Milo-sorghum	Before or at heading	First leaf fully out of whorl	20-25
Peanuts	After bloom begins	Fully developed leaves from top of plant	45-50
Soybeans	Seedling stage	All the above ground portion	20-30
	Prior to maturity initial flowering	Fully developed leaves at the top of the plant	20-30
Sugar Beets	All season	Fully mature leaves midway between the younger center leaves and the oldest leaf whorl on the outside	30-35
Sugar Cane	All season	Fourth fully developed leaf from the top	25-30

FRUIT & NUT CROPS	WHEN TO SAMPLE	PLANT PART TO SAMPLE	NUMBER OF PLANTS TO SAMPLE
Apples, Apricots, Almonds, Cherries, Peaches, Pears, Prunes	Mid-season	Leaves near base of current year's growth	75-100
Grapes	End of bloom period	Newest fully mature leaves	75-100
Lemons-Limes	Mid-season	Mature leaves from last flush of growth on non-fruiting terminals	30-40
Oranges, Grapefruit	Mid-season	Spring cycle leaves, 4 to 7 month old from non-fruiting terminals	25-30
Pecans	6-8 weeks after bloom	Leaves from terminal shoots, taking the pair from the middle of the leaf	30-45
Raspberries	Mid-season	Take youngest mature leaves on laterals of primo canes	25-40
Strawberries	Mid-season	Youngest fully expanded mature leaves	50-70
Walnuts	6-8 weeks after bloom	Middle leaflet pairs from last mature shoots	30-40
Beans	Seedling stage, or prior to During initial flowering	Entire above ground portion Two or three mature leaves at the top of the plant	25-30 25-30
Cabbage, etc.(head crops) of whorl	Before heading	First mature leaves from center	10-20
Celery	Mid-growth	Youngest Mature leaf	30-50
Cucumbers	Before fruit set	Mature leaves near base of main stem	20-30
Leaf Crops (Lettuce, spinach, etc.)	Mid-growth	Youngest mature leaf	30-50
Melons	Prior to fruit set	Mature leaves near base of main stem	20-30
Peas	Before or during initial flowering	Leaves from the third node down from the top of the plant	30-50

FRUIT & NUT CROPS	WHEN TO SAMPLE	PLANT PART TO SAMPLE	NUMBER OF PLANTS TO SAMPLE
Potatoes	Before or during early bloom	Third to sixth leaf from growing tip eliminate tip leaflet	20-30
Root Crops (carrots, beets, onions, etc.)	After 8 leaf fern	Center mature leaves	25-35
Sweet Corn	Before tasselling	The entire mature leaf below the whorl	20-25
	At tasselling	The entire leaf at the ear node	20-25
Tomatoes	Before or during	Third or fourth leaf from growing tip early bloom stage	20-25