

Crop	When to Sample	Where to Sample	Plants to Sample
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FIELD CROPS

Alfalfa	Early bloom set	Upper 1/3 of plant	12-30
Canola	Before seed set	Recently mature leaf	60-70
Clover	Before bloom	Upper 1/3 of plant	30-40
Corn/sweetcorn	Seedling stage	All above-ground portion	15-20
	or		
	Before tasseling	Recently mature leaf	12-20
Corn/sweetcorn	or		
	Tasseling to silking	Leaf opposite/below ear	12-20
Cotton	Full bloom	Recently mature leaf	40-50
Flax	Seedling stage	All above-ground portion	50-60
	or		
	Before heading	Recently mature leaf	50-60
Grasses/forage mixes	Stage of best quality	Upper 4 leaves	30-40
Peanuts	Before/at bloom	Recently mature leaf	40-50
Small Grains (barley, oats, wheat, rye, rice, etc.)	Seedling Stage	All above-ground portion	25-40
	Before Heading	Upper 4 leaves	25-40
Sorghum (milo)	Before/at heading	2nd leaf from top	20-30
Soybeans	Before/at bloom	Recently mature leaf	20-30
Sugarbeets	Midseason	Recently mature leaf at center of whorl	25-30
Sugarcane	Up to 4 months old	4th fully developed leaf from top	15-20
Sunflowers	Before heading	Recently mature leaf	20-30
Tobacco	Before bloom	Recently mature leaf	10-15

ORNAMENTALS AND FLOWERS

Carnations	Newly planted	4th-5th leaf pair from base	20-30
	Established	5th-6th leaf pair from base	20-30

Chrysanthemums	Before/at bloom	Top leaves on flowering stem	20-30
Ornamental trees and shrubs	Current year's growth	Recently mature leaf	30-70
Poinsettias	Before/at bloom	Recently mature leaf	15-20
Roses	At bloom	Recently mature compound leaf on flowering stem	25-30
Turf	Active growth	Leaf blades. Avoid soil contamination	2 cups

VEGETABLE CROPS

Asparagus	Maturity	Fern from 18-30 inches up	10-30
Beans	Seedling stage	All above-ground portion	20-30
	or Before/at bloom	Recently mature leaf	20-30
Broccoli	Before heading	Recently mature leaf	12-20
Brussels Sprouts	Midseason	Recently mature leaf	12-20
Celery	Midseason	Outer petiole of recently mature leaf	12-20
Cucumbers	Before fruit set	Recently mature leaf	12-20
Head Crops (Cabbage, cauliflower, etc.)	Before heading	Recently mature leaf at center of whorl	12-20
Leaf Crops (Lettuce, spinach, etc.)	Midseason	Recently mature leaf	12-20
Melons	Before fruit set	Recently mature leaf	12-20
Peas	Before/at bloom	Leaves from 3rd node from top	40-60
Peppers	Midseason	Recently mature leaf	25-50
Potatoes	Before/at bloom	3rd-6th leaf from growing tip	25-30
Root/bulb crops (Carrots, beets, onions, etc.)	Midseason before root or bulb enlargement	Recently mature leaf	20-30
Tomatoes (field)	Mid-bloom	3rd-4th leaf from growing tip	15-20
Tomatoes (trellis or	Mid-bloom from 1st to 6th	Petiole of leaf below or	12-20

indeterminate)	cluster stage	opposite top cluster
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FRUIT AND NUT CROPS

Apples, pears, almonds, apricots, cherries, prunes, plums	Midseason (June-July)	Leaves from current season's non-fruiting, non-expanding spurs	50-100
Figs, olives, peaches, nectarines	Midseason (June-July)	Basal to mid-shoot leaves from current season's non-fruiting shoots	25-100
Blueberries	2-4- weeks before harvest	Mid-shoot leaves from current season's shoots	50-100
Citrus	Late season (September-October)	Terminal Leaves from current season's non-fruiting shoots	25-40
Grapes	Mid-bloom	Recently mature petioles or leaves adjacent to basal clusters	50-100
Kiwi fruit	Midseason	1st-3rd leaf beyond fruit or mid-cane leaves if non-bearing	50-60
Pecans	Midseason	Paired mid-shoot leaflets from non-fruiting shoots	25-60
Pistachios	Late season (August)	Terminal leaflets from non-fruiting shoots	25-60
Raspberries	Midseason	Recently mature leaves from laterals of primo canes	30-50
Strawberries	Midseason	Recently mature leaves	25-40
Walnuts	Midseason (June-July)	Terminal leaflets from non-fruiting shoots	25-40