

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 |