LEAF SAMPLING GUIDE • *COMMON CROPS*

Sampling Instructions for Common Crops:

Sample Quantities for Common Crops (images on next page):

- **Alfalfa:** 20-30 each of new & old leaves from as many plants as possible
- **Blackberry & Raspberry:** 15-20 each of new & old leaves from as many plants as possible
- **Brassica:** 10-15 each of new & old leaves from as many plants as possible - separate & stack to **fill a 1 gal bag**
- **Citrus:** 20-30 each of new & old leaves from as many plants as possible
- **Coniferous Trees:** 20-30 each of new & old leaves from as many plants as possible - enough to **fill a 1 gal bag**
- **Corn:** 10-15 each of new & old leaves from as many plants as possible - separate & stack to **fill a 1 gal bag**
- **Deciduous Trees:** 20-30 each of new & old leaves from as many plants as possible - enough to **fill a 1 gal bag**
- **Pepper:** 15-20 each of new & old leaves from as many plants as possible
- **Soy:** 20-30 each of new & old leaves from as many plants as possible
- **Potato:** 15-20 each of new & old leaves from as many plants as possible - separate & stack to **fill a 1 gal bag**
- **Strawberry:** 15-20 each of new & old leaves from as many plants as possible
- **Tomato:** 15-20 each of new & old leaves from as many plants as possible

Contact Apical for additional crop-specific sampling instructions.

Submission Instructions

1. **Collect** NEW leaves and OLD leaves SEPARATELY in individually labeled bags:
   - New = newest recently-mature growth from the top of the plant
   - Old = oldest still-viable growth from the bottom of the plant
2. **Gather** a representative sample by following above sampling instructions for the specific crop.
3. **Remove** petioles and all other non-leaf plant material from sample leaves. Ensure leaves are clean of dust, dirt and fertilizer. Rinse with non-chlorinated water if needed and pat dry before bagging.
4. **Order** reports online at https://www.apical-ag.com/grower/order/quick?step=1.
5. **Print** out your order summary and include it with your shipment.
6. **Write** the sample numbers from your order summary on each bag.
7. **Ensure** samples remain viable by minimizing shipping time and using cold packs and/or insulated packaging when shipping in warm conditions. Wrap frozen cold packs in paper to insulate them from direct contact with sample bags.
8. **Mail** samples (including check/money order or paid submission form) to:

Apical Crop Science LLC
1382 SE 3rd Ave, Suite 4
Canby, OR 97013

DO NOT SEND ANY INTERNATIONAL LEAF, SOIL, WATER, OR CNA SAMPLES WITHOUT PRIOR WRITTEN APPROVAL FROM APICAL. SUBMISSIONS THAT DO NOT COMPLY WITH THE ESTABLISHED SAMPLING PROTOCOL WILL BE DEEMED INVALID.

TIPS FOR BEST RESULTS:

1. Achieve optimal plant health by conducting the above LEA sampling process and applying Apical's tailored recommendations consistently throughout the growing season.

2. Always sample at a consistent time of day, preferably prior to 10am to ensure minimal transpiration — about two hours after sunrise is optimal. For indoor plants, sample within one hour of light cycle start.

4. Ensure samples are clean and surface-dry (not dried out) before bagging — dust, fertilizer residue, rain, and condensation affect accuracy.
   - If samples are not dry, please dry with paper towel or air dry to ensure leaves are not wet in sample bags.
   - **Please do NOT leave any paper (labels, paper towels, etc.) in bags with samples.**

apical
Know more.

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• COMMON CROPS

ALFALFA



TRIFOLATE (POST-CUTTING)	EARLY BUD	LATE BUD	FLOWERING	SEEDING (P&P)
ALFALFA: RECOMMENDED SAMPLING INTERVALS				
Samples prior to Early Bud can be of whole plant.				

CORN



VE	V1	V2/V3	V7	V10	VT	R1/R3
CORN: RECOMMENDED SAMPLING INTERVALS						
Samples prior to V3 can be of whole plant or single leaf sets.						

BRASSICA



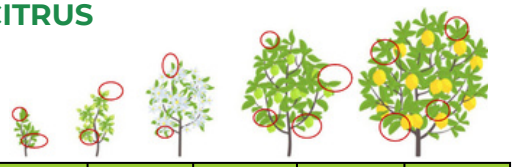
EMERGENCE	EARLY VEG	MID-VEG	HEAD FORMATION
BRASSICA: RECOMMENDED SAMPLING INTERVALS			
Samples at Early Veg and prior can be of whole plant or single leaf sets.			

PEPPERS



EMERGENCE	1ST LEAF	VEGETATIVE	FLOWERING	FRUIT
PEPPERS: RECOMMENDED SAMPLING INTERVALS				
Samples at 1st leaf and prior can be of whole plant or single leaf sets.				

CITRUS



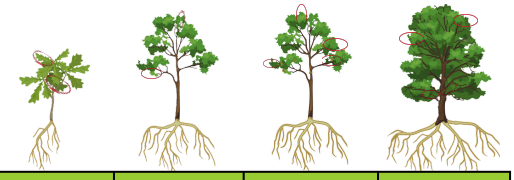
BUD BREAK	BLOOM	PETAL FALL	PRE-COLOR	POST-HARVEST
CITRUS: RECOMMENDED SAMPLING INTERVALS				
TRANSLPANT	SAPLING	YOUNG TREE	MID-SIZED TREE	MATURE TREE
For mid-sized & mature trees, either of the above position pairs is acceptable (New-Old)				

SOY



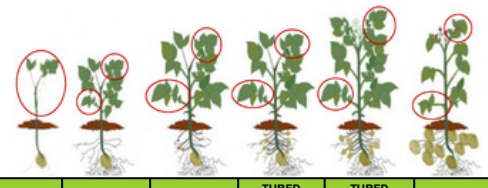
VC	V3/V4	R1/R2	RS	R7	R8 (Phenols/Protein)
SOY: RECOMMENDED SAMPLING INTERVALS					
Samples prior to V3 can be of whole plant.					

DECIDUOUS TREES



PLANTING	PROPOGATION	EARLY GROWTH	MATURITY
DECIDUOUS TREES: RECOMMENDED SAMPLING INTERVALS			
For mid-sized & mature trees, either of the above position pairs is acceptable (New-Old)			

POTATO



SPROUTING	EARLY VEG	LATE VEG	TUBER INITIATION	TUBER BULKING	MATURATION
POTATO: RECOMMENDED SAMPLING INTERVALS					
Samples prior to Early Veg can be of whole plant.					

CONIFEROUS TREES



PLANTING	PROPOGATION	EARLY GROWTH	MATURITY
CONIFEROUS TREES: RECOMMENDED SAMPLING INTERVALS			
For mid-sized & mature trees, either of the above position pairs is acceptable (New-Old)			

TOMATO



EMERGENCE	1ST LEAF	VEGETATIVE	FLOWERING	FRUITING
TOMATO: RECOMMENDED SAMPLING INTERVALS				
Samples at 1st Leaf and prior can be of whole plant or single leaf sets.				