



RECOMMENDED SAMPLING INTERVALS				
SEEDLING	SHOOT ELONGATION	VINING	EARLY FLOWER	CONE DEVELOPMENT (EVERY 7-14 DAYS)

Hops Leaf Sampling Instructions:

1. Sample New Leaves and Old Leaves **SEPARATELY** and place into *individually labeled bags*.
 - a. New = newest recently-mature growth from the top of the plant.
 - b. Old = oldest still-viable growth from the bottom of the plant.
2. Select a representative field sample of a new and an old leaf from 20-30 plants of the same cultivar and growing conditions. Each representative sample (new and old) should halfway fill a 1qt plastic bag.
3. Remove petioles, and all other non-leaf plant material from sample leaves.
4. Complete a [Sampling Label](#) (linked), including contact info, crop, cultivar, and new/old leaf. Affix labels to the **outside** of each sealable plastic sample bag. *(Do not use paper bags or include paper in bags)*
5. Cold Packs and/or insulated packaging are recommended when shipping *leaf samples* in warm conditions. Wrap frozen cold-packs in paper to insulate them from direct contact with samples.
6. Mail samples to:

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

Tips for best results:

1. Obtain optimal plant health by conducting **5-7 Leaf Extract Analyses** throughout the growing season (sampling intervals listed in the table above).
2. **Assess and resolve stress, pests, or toxicities** by testing and treating weekly until desired health is achieved.
3. Always sample at a consistent time of day, preferably prior to 10 am to ensure minimal transpiration - about two hours after sunrise is optimal. For indoor, sample within one hour of light cycle start.
4. Ensure samples are as clean as possible - dew, dirt, dust, and fertilizers can affect test accuracy.
 - o If samples are not clean, wash leaves with clean, non-chlorinated cold water.
5. Ensure samples are surface-dry (not dried out) before bagging - dew, rain, and condensation affect accuracy.
 - o If samples are not dry, please dry with paper towel or air dry to ensure leaves are not wet in sample bag.
 - o **Please do NOT leave paper towels (or anything that will dry out leaves) in bags with samples.**