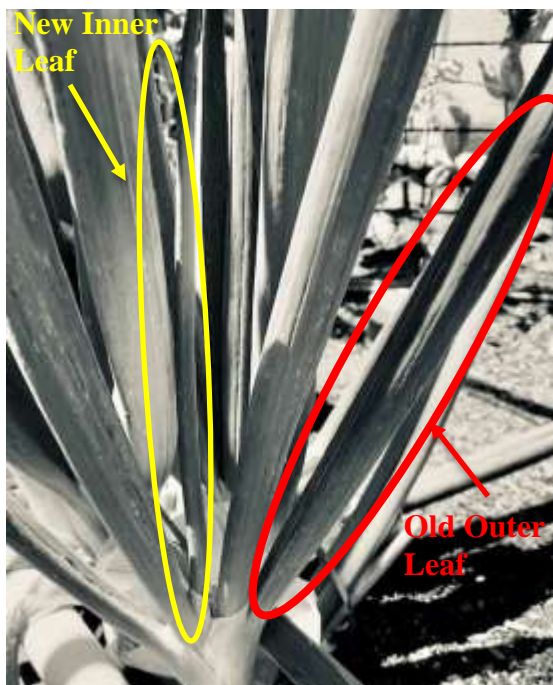


## Bulb Crops: (onion, garlic, leeks) Sampling Guide

**Time of sampling:** Take samples in the morning before 11 am and temperatures less than 80°F to ensure adequate leaf tension and moisture. Avoid sampling in the rain. Store samples in a cooler.

**Sample Size:** Collect 80+ grams of both new (young) and old tube-like leaves for a collected total of 160+ grams per sample set. Collect **whole (entire) new and old leaves separately.** Use gallon-sized bags filled ½ way full.



### Sampling:

**Initial Sample:** sample when young tube-like leaves are 8+ inches long. New leaves only. Place leaves in zip lock bag.

**Consecutive Samples:** New and Old leaf set every 2+ weeks.

**NEW:** sample youngest fully developed leaves from the center of leaf whirl. Place leaves in zip lock bag labeled NEW.

**New leaf = newest yet fully developed leaf**

**OLD:** sample outer leaves that are still functional. Place leaves in separate zip lock bag labeled OLD.

**Old leaf = oldest yet still viable leaf.**

**\*\*Do not mix varieties when sampling as may cause variation in analyses**

### General:

1. Avoid outer rows and 1<sup>st</sup> 20 feet of a row.
2. Sample leaves with average leaf quality. Sample plants of abnormal growth separately.
3. Sample consistently (sunny side of the plant, avoid extreme weather etc.)
4. If leaves are wet at sampling lightly pat dry before shipping (moisture can influence results).
5. Sap analysis data works best when used in progression. The more samples the better crop nutrient uptake can be illustrated and understood.
6. Sample either before or 3+ days after fertilizer/pesticides have been applied.
7. **Keep samples cool.** Bring cooler to fields to store samples. **Ship: overnight or 2-day on M/T (morning arrival time), Fri shipping with Monday morning arrival time. Ship samples with ice packs. Insulate samples so leaves do not come into direct contact with ice packs.**

Sampling & sap analysis questions: contact your distributor or NEW AGE Labs (269) 637-5658