



CORNELL NUTRIENT ANALYSIS LABORATORY

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Instructions for Petiole Sample Collection VINEYARDS

1. Selecting the vines.

Select an area containing about 30 vines of the variety to be sampled. These 30 vines should be representative of a problem area or the average of the vineyard. The final fertilizer suggestions will apply ONLY to the area represented by the selected vines.

Select 30 vines to represent the sample. When sampling more than one area or block, please give each area a reference number and record this number for future reference. If you have fields identified with either a number or a letter, this may be used for the reference number. When the diagnosis sheet is returned, it will refer to the reference number.

2. Collecting petiole samples.

Time of collection: Collect petiole samples during the period of August 15 – Sept 10.

Materials needed: A 2 or 3lb. STAMPED PAPER BAG is provided in the kit.

Procedure: Select the youngest mature leaf from a bearing primary shoot which is well exposed to light. The youngest mature leaf is somewhat difficult to define. It is the youngest leaf on the shoot to obtain full leaf size and is best identified by having brown pubescence on the underside of the leaf instead of white pubescence.

Select two leaves from each plant. REMOVE AND DISCARD the leaf blade and keep ONLY the petiole. The 60 petioles constitute the sample. Place the 60 petioles in the paper bag and mark the IDENTIFICATION NUMBER on the bag.

Wash the petioles: Wash the petioles before they wilt to remove spray residue and dust. This may be done by dipping the petioles in a detergent solution (Dreft, Tide, etc.) and rinse quickly. Don't allow the petioles to remain in the detergent or rinse water for more than one minute. Shake the excess water from the petioles and place them loose back into the bag. With the tops of the bags open, allow the petioles to dry at room temperature until they become crisp.

3. Packaging, payment, and mailing instructions.

Please make check or money order payable to CORNELL NUTRIENT ANALYSIS LAB. Enclose check, information sheet and leaf samples in mailing carton and mail to: Cornell Nutrient Analysis Lab, 804 Bradfield Hall, Cornell University, Ithaca, NY 14853

4. Cost per sample.

\$23.00 (No Nitrogen requested)

\$28.00 (Complete)

5. Submission Form Instructions.

Fill out the information sheet completely using the following suggestions:

Identification of vineyard or area is important. This will be used in making the fertilizer suggestions.

Vine vigor: Estimating the pruning weigh (in pounds) for these vines when dormant and at date of sampling. Estimate the percent of trellis which is filled with foliage.

Leaves: Abnormalities – scorch, interveinal chlorosis, ect. Key in or identify on the basis of page 18 of Extension Bulletin 805, *Cultural Practices of NewYork Vineyards*. Size – estimate the leaf width in inches.

Pruning: Describe the severity.

Yields: Tons per acre for these vines.

Vineyard site: Evidence of poor drainage: mottling at (??) inches; gray layer; hard-pan; bed rock (minimum depth); evidence of erosion, et al.

Additional submission forms for download are available on our website: <http://cna.cals.cornell.edu>.