Bag #:

Plant Tissue Analysis Questionnaire

Please READ the instructions on the reverse side of this questionnaire.
TAPE QUESTIONNAIRE TO PAPER SAMPLE BAG.
See instructions for PAYMENT on Reverse Side.

(1)_____ (2)_____
Name of Sender Name of Farm/Orchard/Vineyard

(3)_____ (4)_____
Street Address City & State

(5)_____ (6)_____
Zip Code Telephone #

(7)_____ (8)_____ (9)_____
Crop Variety Rootstock (if applicable)

(10)_____ (11)_____ (12)_____
Date Sampled Sample Collected by Soil Type (if known)

(13) Customer Sample ID (block, field name, location, etc.):_____

(13) Stage of growth: (1) Early (2) Mid (3) Mature

(14) Soil Moisture Level: (1) Very Dry (2) Dry (3) Moist (4) Wet

(15) Anticipated Yield: (1) Light (2) Moderate (3) High

(15) Plant Vigor: (1) Weak (2) Moderate (3) Vigorous

(17) Pruning: (1) None (2) Light (3) Moderate (4) Heavy

(18) Plant Age: _____ (19) Plant Spacing: _____

(20) Fertilizer applied last year: _____

(21) Fertilizer applied this year: _____

(22) Purpose of sample: Normal Nutrient Check Problem

(23) Comments: _____

HOW AND WHEN TO SAMPLE: Samples should be taken from the specific plant part, at a specific location on the plant, at a specific stage of growth for which research data has been evaluated. In other words, to assess the nutritional status of your plant tissue one must have data from comparable plants of known nutritional status. Generally the most recently developed mature leaves are sampled, and timing is often critical. See the list below for guidelines for typical crops. Contact the lab for specific procedures for other plant types.

Apples (Pears):	sample fully expanded leaves from mid-shoot of current growth during late July or August
Strawberries:	sample from the first fully expanded new leaves after renovation.
Blueberries:	sample healthy leaves during July or August
Raspberries:	sample healthy leaves on non-fruiting canes in early to mid-August
Grapes:	sample **petioles** from most recently matured leaves on shoots at beginning of verasion in mid-August
Cranberries	sample top 2 inches of at least 50 randomly chosen new upright tips (leaves and twigs, mixed flowering and vegetative) between mid-August and mid-September

PROCEDURE:

1. When there is a plant growth problem, always attempt to sample the problem areas and then take a second sample from the same variety showing satisfactory growth. Send these two samples in separate containers with separate payments.
2. When no plant growth problem exists, but there is interest in assessing the nutritional status, your results will be compared with those in the scientific literature or from previously sampled crops.
3. Remove leaves (or selected plant part) from a representative area. For example, remove leaves from 10-20 plants scattered through the area to be sampled (rather than 10-20 plants from one end of the planting).
4. Make certain management practices have been uniform within the sampling area. If soil characteristics vary significantly over the area, sampling should be refined to reflect these differences.
5. Take 10-50 leaves (or selected plant part), depending on crop, rinse thoroughly with tap water to remove any chemicals, foliar applied fertilizer, and soil particles. Place them on clean paper to air-dry.
6. Once air-dried, carefully place tissue (avoiding contamination with foreign material) in a paper bag (using the one provided if you have a UMass Tissue Kit). Please PRINT (do not write)
7. Answer all questions on the reverse side of this sheet, and enclose questionnaire in an envelope along with your sample to the Soil and Plant Tissue Testing Lab.

PAYMENT PROCEDURE	**FEES:**	**Tissue Analysis without Nitrogen**	**$15.00**
		Tissue Analysis including Nitrogen	**$22.00**

Enclose CHECK made PAYABLE to **University of Massachusetts** along with completed questionnaire. Please DO NOT send cash. If more than one sample is being submitted, please indicate which sample contains payment for the group.

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(Cut at dotted line and save bottom for your records)

Bag #: _____ Your Sample ID: _____ Date Sent: ___/___/_____.