

AGENT: Keep bottom copy

Plant Diagnostic Checksheet

COUNTY _____

COLLECTION DATE _____

Plant Diagnostic Laboratory
Extension Plant Pathology
Extension Agronomy
4032 Throckmorton Hall
Kansas State University
Manhattan, KS 66506-5504
Phone (785) 532-5810

Lab. No. _____
Received _____
Condition on arrival
Excellent _____ Fair _____ Good _____
Poor _____

FOR LAB USE ONLY

SUBMITTED BY _____
(Agents - name is sufficient)
CITY, STATE, ZIP _____
PHONE # _____
E-MAIL _____

SUBMITTED FOR _____
STREET ADDRESS _____
CITY, STATE, ZIP _____
PHONE # _____
E-MAIL _____

Sample from	_____ Farmer	_____ KSU campus faculty
	_____ Consultant/Ag. Business	_____ Other government personnel
	_____ Commercial Horticulture	_____ Homeowner

PLANT _____	Location _____ field	_____ commercial interiorscape
Cultivar _____	_____ orchard	_____ landscape
Acreage/# affected _____	_____ golf course/park	_____ garden
Date planted _____	_____ greenhouse	_____ windbreak

SYMPTOMS PRESENT:

___ Wilt ___ Yellowing ___ Scorch ___ Leaf Mottle or Mosaic ___ Tip Die Back
___ Galls ___ Stunting ___ Fruit Rot ___ Abnormal or Twisted Growth
___ Canker ___ Leaf Spot ___ Root Rot ___ Premature Leaf Fall ___ Other _____

Date symptoms first appeared _____ Have you had this problem before? _____

OTHER INJURIES: ___ Hail ___ Wind ___ Freeze or frost ___ Sun ___ Insects: _____

DISTRIBUTION OF DISEASE: ___ One or few plants ___ Spots or patches ___ Edge of field only
___ Upland, dry areas ___ Low, wet areas ___ Shaded areas ___ Entire crop

Weather last **two weeks** _____

Watering or Irrigation: ___ Furrow ___ Overhead ___ Trickle ___ None ___ How Often: _____

CHEMICALS APPLIED TO CROPS (rate and type of application):

Soil: Type _____ pH _____ Drainage: ___ Good ___ Moderate ___ Poor
Last two crops planted on this site _____

COMMENTS:

SHIPPING GUIDELINES

These guidelines should be followed for all types of plant samples.

- 1) Fill out the accompanying Plant Diagnostic Checksheet as completely as possible
- 2) Send a plentiful amount of **FRESH** plant material, it is best to include the entire plant when possible. Dig (do not pull) up the plant and ship as soon as possible.
- 3) Send a sample characteristic of the problem that exhibits a range of symptoms.
- 4) **DO NOT ADD WATER OR WET PAPER TOWELS TO THE SAMPLE!**
- 5) Seal the plant material in a plastic bag and pack in a crush-proof container.
- 6) Send only one type of sample in each bag.
- 7) Send information in a separate plastic bag.
- 8) Include necessary payment with sample.
- 9) Send samples on or before Wednesday in order to avoid weekend storage at the post office.

SPECIFIC COLLECTION GUIDELINES

(All samples should be sent in a plastic bag with a few air holes cut in it).

Crops/Annual plants: Send entire plants, including roots and soil. Carefully dig the plants up. Send several plants showing a range of symptoms. Seal the roots in a plastic bag and place the entire sample in a larger plastic bag. **DO NOT ADD WATER.**

Tree wilt diseases: Collect several branches ½ to 1 inch in diameter and about 12 inches long. The samples should be in the process of wilting but not dead.

Trees/shrubs (foliage diseases, cankers, and fruit rots): Collect several branches 10-12 inches long (or fruit) showing a range of symptoms.

Turf: Samples should be 6 inches square by 4 inches deep. Collect the sample near the margin of the affected area so that a range of diseased and healthy tissue is included.

NEMATODE COLLECTION GUIDELINES

- Diagnostic sampling for initial detection of a nematode problem:
Separate samples from healthy and affected areas are essential for a reliable diagnosis of nematode damage. Collect several soil and root cores to a depth of 6 to 8 inches from the margin of the affected area. The soil cores should be bulked, mixed, and subsampled. Repeat the sampling process nearby in the healthy area. Submit 1 pint of soil and roots. Include the plants if possible.
- Advisory sampling for management purposes (for soybean cyst):
Collect samples prior to planting. Divide the field into sections based on soil type and cropping history. From each section collect at least five soil cores taken at a depth of 6 to 8 inches. The soil cores should be bulked, mixed, and subsampled. Submit 1 pint of soil.
- **Sampling for pine wilt:**
Collect a branch at least 2 inches in diameter and 6 to 8 inches long from adjacent to the trunk of the tree.
- Place sample in plastic bag immediately after collection and keep cool until shipping. Do not add water to the sample. Mail early in the week (Monday – Wednesday).
- Allow 1-2 weeks for a reply.