

# Tree and Plant Health Monitoring Form

Date: \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_

**PLEASE NOTE:** Monitor/witness information is for data verification **ONLY** and will remain private. **If you have a Gmail account you can upload your form and photos using the online database at: [www.prairierivers.org/report](http://www.prairierivers.org/report) Otherwise, email form and photos to [monitoring@prairierivers.org](mailto:monitoring@prairierivers.org)**

Observer: First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_ Witness: \_\_\_\_\_

Site ID: \_\_\_\_\_ Subunit: \_\_\_\_\_ County: \_\_\_\_\_

Visit Planned? [ ] yes [ ] no Visit #: \_\_\_\_\_ GPS (Lat/Long) in Decimal Degrees: N \_\_\_\_\_ W \_\_\_\_\_

GPS point in relation to sample area: \_\_\_\_\_

**Species and Symptoms Observed:** At least one indicative symptom (**bolded**) under Symptoms must be present (checked), otherwise the symptom level is "0". If multiple species are affected, data from at least two plant families (e.g., oak, redbud) are preferable. Use back of form and notes to record additional affected species.

|  | Species 1 photo { } | Species 2 photo { } | Species 3 photo { } |
|--|---------------------|---------------------|---------------------|
| Common (or scientific) name                    |                     |                     |                     |
| approx. number observed                        |                     |                     |                     |
| % foliage affected: 1-25, 26-50, 51-75, 76-100 |                     |                     |                     |
| average and range of symptoms                  |                     |                     |                     |
| <b>SYMPTOMS – Mark "X" if Present</b>          | -----               | -----               | -----               |
| <b>Leaves:</b> curled or cupped                |                     |                     |                     |
| sideways or upside down (epinasty)             |                     |                     |                     |
| irregular margins                              |                     |                     |                     |
| strapped                                       |                     |                     |                     |
| tattered                                       |                     |                     |                     |
| twisted, deformed, and/or stunted              |                     |                     |                     |
| veins bleached and/or parallel                 |                     |                     |                     |
| <b>Shoots:</b> elongated, coiled, and/or bent  |                     |                     |                     |
| growth suppressed and deformed                 |                     |                     |                     |
| <b>Leaves:</b> chlorotic (yellowed)            |                     |                     |                     |
| necrotic (brown/black areas)                   |                     |                     |                     |
| 2 <sup>nd</sup> growth                         |                     |                     |                     |
| <b>Trees:</b> epicormic branching              |                     |                     |                     |
| dieback  |                     |                     |                     |
| death  |                     |                     |                     |

**Notes:** Any additional notes. (e.g., other affected species, known sensitive species NOT affected, insect damage, severe drought present, etc.)

\_\_\_\_\_  
 \_\_\_\_\_

**Layers:** Check for affected layers, strikethrough if layer is absent: [ ] Overstory [ ] Understory [ ] Ground layer

**Geographic Extent of Observed Symptoms:** (check and complete only one with "best-fit")

[ ] **LARGE** (>1 acre) Type: \_\_\_\_\_ (e.g., upl. forest) Approx: sampled acres \_\_\_\_\_ affected acres \_\_\_\_\_

[ ] **SMALL** (<1 acre) Type: \_\_\_\_\_ (e.g., yard, school, park) Approx. # trees affected \_\_\_\_\_

[ ] **LINEAR** Type: \_\_\_\_\_ (e.g., fencerow, edge of woods) Approx. length \_\_\_\_\_ (indicate ft or miles)

**OPTIONAL Symptom Pattern and Land Use:** Record pattern of symptoms and land use data on Page 2 of form, (see guidelines).

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Date: \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_

## Species and Symptoms Observed Continued:

|  | Species 4 photo { } | Species 5 photo { } | Species 6 photo { } |
|--|---------------------|---------------------|---------------------|
| Common (or scientific) name                    |                     |                     |                     |
| approx. number observed                        |                     |                     |                     |
| % foliage affected: 1-25, 26-50, 51-75, 76-100 |                     |                     |                     |
| average and range of symptoms                  |                     |                     |                     |
| <b>SYMPTOMS – Mark “X” if Present</b>          | -----               | -----               | -----               |
| <b>Leaves:</b> curled or cupped                |                     |                     |                     |
| sideways or upside down (epinasty)             |                     |                     |                     |
| irregular margins                              |                     |                     |                     |
| strapped                                       |                     |                     |                     |
| tattered                                       |                     |                     |                     |
| twisted, deformed, and/or stunted              |                     |                     |                     |
| veins bleached and/or parallel                 |                     |                     |                     |
| <b>Shoots:</b> elongated, coiled, and/or bent  |                     |                     |                     |
| growth suppressed and deformed                 |                     |                     |                     |
| <b>Leaves:</b> chlorotic (yellowed)            |                     |                     |                     |
| necrotic (brown/black areas)                   |                     |                     |                     |
| 2 <sup>nd</sup> growth                         |                     |                     |                     |
| <b>Trees:</b> epicormic branching              |                     |                     |                     |
| dieback  |                     |                     |                     |
| death  |                     |                     |                     |

OPTIONAL Symptom Pattern and Land Use Information: \_\_\_\_\_

GPS Guidance: You can obtain GPS points from a GPS unit in the field or Google Earth later. GPS data in degrees/minutes/seconds format can be converted to decimal degrees using free on-line converters.

**Symptom Ratings**

0 = none observed  
 1, 2 = slight  
 3, 4 = light  
 5, 6 = moderate  
 7, 8 = severe  
 9, 10 = extreme

**Layers**

Overstory = > 30'  
 Understory =  
 10-30' Ground  
 = < 10'

**Symptoms**

- Curling or Cupping (leaf edges up or down)/or whole leaf curled)
- Irregular margins (abnormal scalloped, pointed, or wavy edges)
- Epinasty (leaf petioles twisted; blades sideways or upside down)
- Strapping (abnormal leaf lengthening)
- Tatters (blade tissue missing at edge and/or between veins)
- Twisted, deformed &/or stunted (blade twisted, lobes irregular, surface irregular, or leaf stunted.)
- Shoot elongated, coiled, or bent (generally most visible at leaf out, often many co-occurring leaf symptoms)
- Shoot growth suppressed and deformed (failure to fully develop, usually many co-occurring leaf symptoms)
- Chlorotic (yellowish, whitish leaves)
- Necrotic (browning/blackening - often at leaf edges)
- Epicormic branching (twig bunches sprouting from large branches or trunk)
- Death (whole tree death after leaf out)
- Dieback (whole branches dead after leaf out)
- Second growth (new leaf growth at twig end emerging after 1<sup>st</sup> leaf flush; may be normal or injured, especially oak)