

Checklist for Tree Damage

Before determining what is causing problems with your trees or shrubs, conduct a thorough inspection of the site and surrounding area, identifying tree and shrub species.

Go through this checklist to identify the cause of insect and disease problems with your trees and find a possible solution.

1. Conduct a thorough site inspection

- ☐ Check the surrounding area for:
 - O Power lines improper pruning
 - O Water and sewer lines and out flow area nutrient and flooding issues
 - O Sidewalks, pathways and vehicle parking areas compaction and salt issues
 - O Mechanical damage lawnmowers and rotor tillers
 - O Livestock and wildlife issues, causing
 - Barking peeling the outer protective layers away
 - Browsing eating buds, foliage and shoots
 - Budding feeding on buds and emerging foliage
 - Clipping severing shoots, stems and roots
 - Pulling extracting seedlings from the ground
 - Rubbing damaging the branches or main stem tree
 - Trampling bruising or crushing seedlings and compaction
 - Soil compaction and root damage
 - Nutrient issues urine can easily kill trees

| ☐ Consid | der environmental conditions for | problem | s with t | rees: |
|--------------|---|-------------|---------------|----------------------------|
| 0 | Soil Clay – roots can't go thr Peat – too acidic Loam – great for growin Dry soil or sand –drough Wet area – waterlogged | g nt | | |
| 0 | Light – low light, shade, full sun | light - iss | ues wit | h growth |
| 0 | Prevailing wind direction – poss | sible wind | d dama | ge |
| 0 | Topographic features - hills, slo | pes, depr | ession | - issues with drainage |
| 0 | Drainage and ponding – how lo or heavy rains | ng does a | an area | stay wet after spring melt |
| ☐ Munic | ipal and provincial roads and pov | wer line i | ssues | |
| 0 | Weed spreading issues via railw | /ay | | |
| 0 | Road and culvert building – roo | ts damag | e durin | g construction |
| 0 | Tree pruning under power line | – potenti | al disea | ase spreading |
| 0 | Dust issues and salt use on road | ds | | |
| 2. Insect of | lamage thorough inspec | tion: | | |
| ☐ Trunk | Damage | | ☐ Leaf Damage | |
| 0 | Boring | | 0 | Leaf defoliation |
| 0 | Bark peeling | | 0 | Discoloration |
| 0 | Discoloration | | 0 | Wilting |
| 0 | Sawdust | | 0 | Deformation and |
| 0 | Oozing | | | stunting |
| □ Sood [| Damage | | | Galls |
| | Debris and sawdust | | 0 | Chewing, piercing, holes |
| 0 | Boring | | Root D | amage |
| 0 | Discoloration | | 0 | Basal sawdust |
| | Deformation & Stunting | | 0 | Root loss |
| J | Deformation & Stanting | | 0 | Bark loss |

| 3. | Di | sease | damage thorough insp | ection: | | | | |
|----|----|--|----------------------------------|-------------|-------------------------------|--|--|--|
| | | Fungu | s on trunk, roots, branches | | Dieback | | | |
| | | Discolo | oration | | Wilt | | | |
| | | Galls, | swelling and knots | | Rots and decays | | | |
| | | Distort | tion of leaves | | Fruiting bodies on needles or | | | |
| | | Blight | - oozing | | leaves | | | |
| 4. | En | nvironmental damage thorough inspection: | | | | | | |
| | | Chemical damage | | | | | | |
| | | 0 | Wilting and spot damage | | | | | |
| | | 0 | Wavy or curled leaf margins | | | | | |
| | | 0 | Chlorosis | | | | | |
| | | 0 | Abnormal swelling and twistin | g | | | | |
| | | 0 | Redding, browning and casting | g on conife | erous | | | |
| | | 0 | Premature defoliation | | | | | |
| | | 0 | Killing portion or whole tree in | short per | riod of time | | | |
| | | Frost - | patchy leaf on aspen or sudder | n wilting o | n coniferous | | | |
| | | Drougl | ht – not watering, sandy soil | | | | | |
| | | Winter | r Desiccation – top tree brown v | while bott | om alive | | | |
| | | Salt –p | hysical damage due to particles | s or absor | ption through roots | | | |
| | | Polluti | on near large industrial areas o | r oil wells | | | | |
| | | Fertiliz | er –either by livestock manure | or from fi | eld or over fertilizing | | | |
| | | Soil Co | mpaction – clay and in urban a | rea | | | | |
| | | Frost c | damage on trunk | | | | | |
| | | Lightin | g | | | | | |

| Weed | control systems issues | | | | |
|--------|--|--|--|--|--|
| 0 | Plastic mulch – overheating and chocking | | | | |
| 0 | Organic mulch – wood chips, flax shives, slough hay – not properly installed or leaching issues with fresh organic mulch | | | | |
| 0 | Shale or rock- physical damage during construction | | | | |
| 0 | Woven cloth – not properly installed | | | | |
| 0 | Cultivation – root and stem damage with equipment | | | | |
| 0 | Herbicides - not properly used | | | | |
| 0 | Combination of all above | | | | |
| Water | ring issues | | | | |
| 0 | Too much water or improper watering | | | | |
| 0 | Water quality never tested – salt issues | | | | |
| 0 | Soil moisture never tested | | | | |
| 0 | Late fall watering is never done | | | | |
| 0 | Improperly installed sprinkler system | | | | |
| Prunin | g issues | | | | |
| | Trees improperly pruned | | | | |
| | Pruning during rain or wet day – ideal for disease spreading | | | | |
| 0 | Unsterilized pruning tools | | | | |
| 0 | Damage from rubbing due to no pruning | | | | |
| 0 | Suckers never removed | | | | |
| 0 | Cavities, dead and diseased branches | | | | |
| 0 | Improperly balanced tree | | | | |
| 0 | Prune lower branches of conifers to avoid fire hazard | | | | |
| 0 | Replace dead trees – ASAP so that gaps don't form in the shelterbelt | | | | |