*Add rows as necessary and duplicate the feature class table if you are including multiple feature classes.*

*https://www.deeproot.com/blog/blog-entries/13-simple-steps-to-evaluate-trees*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Feature Class: Trees** | | | | | |
| **Field Name** | **Alias** | **Type** | **Length** | **Domain** | **Notes** |
| Location | Location | Text | 50 | N/A | This is XY Coordinates |
| TrunkWounds | Trunk Wounds | Text | 100 | TrunkWounds | What percentage of the trunk is intact? |
| Mushrooms | Mushrooms | Text | 50 | Mushrooms | Are mushrooms visible? |
| Co-dominantBranches | Co-dominant Branches | Text | 50 | Co-dominantBranches | Are co-dominant branches present? |
| AnnualBranchExtension | Annual Branch Extension | Text | 50 | AnnualBranchExtension | Every branch contains a small scar that indicates how much it grew the previous year. Measure between terminal bud scars to determine annual growth. |
| AnnualTrunkDiameterGrowth | Annual Trunk Diameter Growth | Text | 50 | AnnualTrunkDiameterGrowth | Using a diameter tape (or the formula diameter = circumference/pi if using a regular tape measure) calculate how much the tree grew (\*this assumes you have made the same measurement in the previous year). |
| TrunkFlare | Trunk Flare | Text | 25 | TrunkFlare | Can you see the trunk flare? |
| SurfaceRoots | Surface Roots | Text | 50 | SurfaceRoots | How do the roots appear at the surface? |
| SoilDrainageRate | Soil Drainage Rate | Text | 50 | SoilDrainageRate | Using a hand spade, take a small hole about the size of a drinking glass in the soil at the base of the tree, taking care not to cut any healthy roots. Fill this hole with water and allow it to drain through. Refill the hole and time how long it takes to drain completely. Divide the number of inches/cm that drained by time in hours to calculate the infiltration rate. |
| DensityOfCanopyLeaves | Density of Canopy Leaves | Text | 25 | DensityOfCanopyLeaves | Can you see through the canopy? |
| CanopyPerimeterShape | Canopy Perimeter Shape | Text | 50 | CanopyPerimeterShape | What is the shape of the canopy? |
| LeafColorAndAppearance | Leaf Color and Appearance | Text | 25 | LeafColorAndAppearance | How do the leaves appear? |
| TrunkAndTrunkBaseBranches | Trunk and Trunk Base Branches | Text | 100 | TrunkAndTrunkBaseBranches | Are there branches sprouting from the base or lower trunk? |
| Mulch | Mulch | Text | 100 | Mulch | If mulch is present, how does it appear? |

|  |  |
| --- | --- |
| **Domain Name** | **Domain List** |
| TrunkWounds | 100% of the trunk bark is present and firm, ~80-90% of the trunk diameter is missing, ~40%-80% of the trunk diameter is missing, Spiral of bark missing from the trunk from high up in the tree, Numerous woodpecker holes on trunk |
| Mushrooms | None visible, Visible on large branches, Visible on main trunk |
| Co-dominantBranches | Strong central leader (no co-dominants), 1-2 co-dominant branches, >3 co-dominant branches |
| AnnualBranchExtension | >10” (25cm) per year, <2” (5cm) per year |
| AnnualTrunkDiameterGrowth | > ¾” (2 cm) per year, <1/4” (0.63cm) per year |
| TrunkFlare | Visible, Buried |
| SurfaceRoots | Radiate from trunk like spokes on a wheel, Wrap around trunk and each other |
| SoilDrainageRate | 1/2” to 3” (1.2cm to 7.5cm) per hour, <1/8” (.3cm) per hour |
| DensityOfCanopyLeaves | Cannot see through, Can see through |
| CanopyPerimeterShape | Continuous round or oval, Large holes (almost like bites) |
| LeafColorAndAppearance | Dark green (large), Yellow and small, >50% leaf scorch |
| TrunkAndTrunkBaseBranches | No small branches visible on main trunk or base of tree, Small branches sprouting from the trunk that are relatively new, Small branches sprouting from the base of the trunk (looks almost like a shrub) |
| Mulch | Mulch forms a dish with thin layer (<2”/5cm) over main roots, Mulch forms a thick mound and touches trunk |