

Appendix B. Shapefile Standards

State of Minnesota, Department of Natural Resources, Division of Forestry

Standards adapted from Shapefile Standards for Aerial Herbicide & Aerial Seeding Applications (January, 2017)

- Participants in DNR's tree seedling drought relief grant program are required to provide a shapefile that includes a polygon feature for each proposed project site (just one polygon required per site should multiple project activities be proposed for a project site). The shapefile must be submitted at the same time as the grant application.
- Keep the following items in mind when creating your shapefile:
 - The shapefile you provide should include polygons for project activity areas. For a project site with multiple activities, only one polygon is needed. Always use the polygon associated with the planting activity.
 - Provide a shapefile that is "clean." Eliminate "bird nests" and crossings that may occur when using a GPS and gathering track log points while the operator is stationary, or if the GPS's track log is on and the GPS is acquiring satellites.
 - The shapefile should be projected using the DNR standard NAD 83 UTM zone 15N.
 - Name the shapefile with your organization name and "_tree_seedling_drought_relief.shp" (ex: State of Minnesota_tree_seedling_drought_relief.shp)
 - Areas not to be treated inside the project area should be excluded from the feature.
 - Check the acreages of your project polygons and confirm they match the acres listed for planting activities in Attachment A, Tab 1 – Project work plan.
 - Acres should be rounded off to the nearest tenth acre.
- The shapefile attribute table should have the bare minimum information, including:
 - "FID"
 - "Shape"
 - "Project Site Name" (from Attachment A, Tab 1 – Project work plan)
 - "Acres" (with precision to the tenth decimal place)