

**Environmental & Earth Sciences
(Forestry)
Division 320**

Pay Category 6

General Information - The official reference for all forestry projects is The Tree Identification Manual (4-H 332). Other helpful forestry references include Trees of Nebraska (EC 92 -1774 -X), Leafing Out (4-H 431) and Plant a Tree (EC 17-11-80).

Display "boards" must be made from wood or wood composite, i.e., plywood, fiberboard or masonite, 1/4" to 1/2" thick and no larger than 24" x 24". Display boards may be coated, e.g., painted or varnished to prevent warping.

Display "posters" must be made from a material, e. g. foam board or poster board, that will stand upright without buckling, and be no larger than 24"x24".

Display "books" must measure no more than 16"x16".

At least 5 of the 10 samples in Class 2, 3, 4, and 6, exhibits must be from the list of 60 species described in 4-H 332. If more than 10 samples are included in a display, only the first 10 samples of the current year will be judged. All samples must be from trees, NO shrubs. The 10 samples to be judged must be from 10 different species, e.g. Emerald Queen Maple and Crimson King Maple are both Norway Maples.

Remember that other general labeling standards apply, i.e. scientific name are always italicized or underlined. When required, always indicate complete scientific names and common names, even when "variety names" are included. For example, the scientific name of Emerald Queen Maple is *Acer platanoides* and the common name is Norway maple. "Emerald Queen" may be included as the variety name, but variety names one not required.

Tree Identification

Refer to the TREE IDENTIFICATION MANUAL (4-H 332) for detailed instructions of all forestry projects (except "Living Tree Display" described below). Leaf Print Display and Champion Tree Display were both deleted in 2008.

1. **Design -Your -Own Exhibit**
2. **Leaf Display**
3. **Twig Display**
4. **Seed and Fruit Display**
6. **Wood identification display**
8. **Cross Section of a Tree.** The diagram in the Tree Identification Manual (4-H 332, page 8) is incorrect. Please consult Trees of Nebraska (EC92-1774-x) or other references or contact the Superintendent for correct labeling information.
9. **Parts of a tree**

10. **Living Tree Display** - A live tree seedling, 60 days to 2 years old (on State Fair judging day), grown from seed in the display container by the exhibitor. The container must have drainage holes, a drain pan to catch drainage water, and contain at least 8" of soil. Soil should be a potting mix or natural soil high in organic matter. The waterproof label must include the tree's common name, scientific name (underlined), date of planting, seed treatments (if any), date of emergence, and exhibitor's name. Supporting information, such as where the seed was collected, growth measurements, uses of the species, etc. may be included on the label or in an attached notebook, poster, etc. Supporting information will be an important factor in judging.