# **4-H Forestry Project**

Decide which fair class you are going to compete in by looking at the forestry department in the fair book. Our rules are the same as the state fair.

### **Selecting Leaves**

Collect leaves early summer to avoid defects – leaves collected mid-summer might be drier and easier to press but there is an increased risk of leaf imperfections later in summer.

- Choose leaves that are relatively flat, not curled.
- Look for leaves that are not spotted or bumpy.
- Do not be afraid to pick leaves in various stages of changing colors (fall) but be sure to choose a mature leaf.
- It is recommended to take a small twig that contains at least two leaves then pick the best one to press.
- As you pick leaves be sure to document: what tree the leaf came from, city and/or county collected from and date collected. You will need this information later.
- Drier leaves press well. More supple leaves, like magnolia and rhododendron, might need to be dried via a silica gel method rather than the pressing method described below

### **Pressing Leaves with Weight**

To press leaves, choose leaves with low moisture content to avoid molding. Next, sandwich leaves between newspaper or waxed paper.

- Place the leaves wrapped in wax paper or newspaper inside a heavy book. You can also place more books, a weight, or rock on top of the book to add more weight. Or wrapped leaves in wax paper or newspaper and stack weight on top of the leaves.
- Keep your press in a dry location. Check the pressing after about one week. Make sure the leaves are drying and not rotting. If leaves were damp you may need to change the newspaper so it continues to absorb the moisture from the leaf and put it back in or under something heavy. You will probably need to leave the leaves under the book for another one to two weeks before they are completely dry and ready to use.

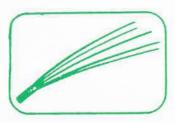
**I've never tried this but you could experiment:** (If you would like a more supple leaf, soak the leaves in diluted fabric softener before pressing. Or you can try coating the surface of the leaf with a light layer of petroleum jelly.)

# **4-H Forestry Project**

## **Putting your Forestry Book Together**

- Each specimen shall be dried and individually mounted on cardstock or heavy duty 8 1/2" x 11" paper. The specimens may be mounted on self-adhering transparent plastic sheets or other similar material. Gluing the specimen directly to heavy paper or using photo adhesive is also acceptable.
- Pages should be labeled with: proper common name (as listed in 4H334 publication, attached), location collected (city and/or county), and (day, month, year) or (month, day, year) collected.
- Paper with leaves can be slid into clear plastic page protectors and displayed in a conventional three ring binder or similar ringed folder.
- Front of binder should display name, club, age and year in project in a prominent location.
- Pages in binder should be sorted by native and non-native Kansas trees

#### NEEDLE-LIKE OR EVERGREEN LEAVES

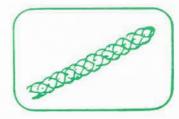


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1. Needle Shaped

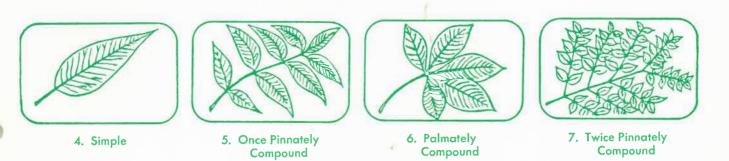


2. Awl Shaped



3. Scale Shaped

**Deciduous Leaves** 



### Leaf Shapes



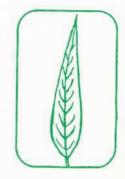
8. Ovate



9. Heart



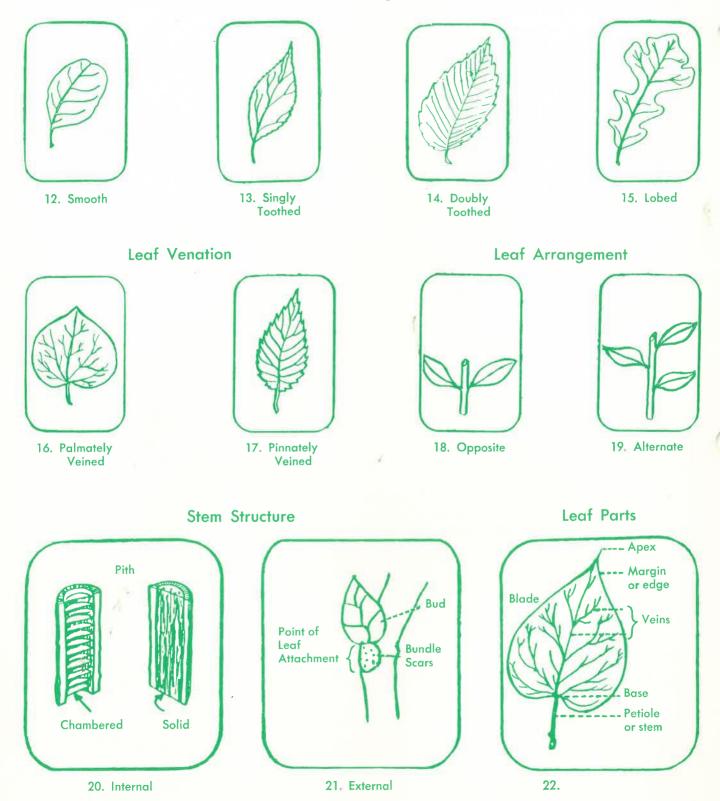
10. Triangle



11. Lanceolate

## Leaf Margins

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This publication constitutes the 4-H Forestry Project Guide for the nomenclature of "Kansas Native Forest Trees." Use this list to determine whether a tree species is in the native forest or ornamental category. The list consists of only those trees that are readily distinguishable from each other. Where separation by species is difficult, for example Hawthorn, only one listing is provided.

Trees not included in this list are considered

nonnative and should be placed in the "Ornamental Trees" category. Forest trees collected outside of Kansas and not used as ornamentals, for example redwood, may be placed in a separate group entitled, "Forest Trees not Native to Kansas."

"Horticultural Fruit and Nut Trees" is considered a separate category and should be labeled as such in the collection. Check species against this list to prevent duplication.

# **List of Kansas Native Forest Trees**

Ash, blue Fraxinus quadrangulata Michx. Ash, green Fraxinus pennsylvanica Marsh. Ash, wafer — see Hop tree Ash, white Fraxinus americana L. Basswood, American Tilia americana L. Birch, river Betula nigra L. Boxelder Acer negundo L. Buckeye, western Aesculus glabra Willd. var. arguta (Buckl.) Robinson Buckthorn, woolly Bumelia languinosa (Michx.) Pers.

\*Catalpa, spp. — northern and southern Catalpa not readily distinguishable *Catalpa* spp.
Cherry, black *Prunus serotina* Ehrh.
Chinaberry — see Soapberry
Coffeetree, Kentucky *Gymnocladus dioica* (L.) K. Koch Cottonwood, eastern *Popular deltoides* Marsh. Cottonwood, western — not readily distinguishable, list as Cottonwood, eastern. Crabapple — see Wild crabapple

Dogwood, flowering *Cornus florida* (L.) Raf.

Elm, American *Ulmus americana* L. Elm, red *Ulmus rubra* Muhl. \*Elm, Siberian *Ulmus pumila* L. Elm, slippery — see Elm, red Elm, white — see Elm, American

Hackberry *Celtis occidentalis* L. Hackberry, dwarf *Celtis tenuifolia* Nutt. Haw, southern black — see Hawthorn spp. Haw, red — see Hawthorn spp. Hawthorn spp. *Crataegus* spp. (Several species, not readily distinguishable.)

\*Hedge — see Osage-orange Hickory, bitternut Carya cordiformis (Wang.) K. Koch Hickory, black *Carya texana* Buckl. Hickory, kingnut — see Hickory, shellbark Hickory, mockernut Carya tomentosa Nutt. Hickory, shagbark Carya ovata (Mill.) K. Koch Hickory, shellbark Carya laciniosa (Michx.) Loud. Honeylocust *Gleditsia triacanthos* L. Holly, deciduous Ilex decidua Walt. Hophornbeam - see Ironwood Hop tree Ptelea trifoliata L. Ironwood

*Ostrya virginiana* (Mill.) K. Koch

June berry — see Serviceberry, downy

\*Introduced and naturalized.

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Linden — see Basswood, American \*Locust, black *Robinia pseudoacacia* L. Locust, honey — see Honeylocust

Maple, black — not readily distinguishable; list as Maple, sugar.
Maple, hard — see Maple, sugar
Maple, silver Acer saccharinum L.
Maple, soft — see Maple, silver
Maple, sugar Acer saccharum Marsh
Mulberry, red Morus rubra L.

\*Mulberry, white — not readily distinguishable; list as Mulberry, red

Oak, black Quercus velutina Lam. Oak, blackjack Quercus marilandica Muenchh. Oak, bur Quercus macrocarpa Michx. Oak, chestnut — see Oak, chinkapin Oak, chinkapin Quercus muehlenbergii Engelm. Oak, pin Quercus palustris Muenchh. Oak, post Quercus stellata Wang. Oak, northern red *Quercus rubra* L. Oak, shingle *Quercus imbricaria* Michx.

Oak, Shumard *Quercus shumardii* Buckl. Oak, white *Quercus alba* L.

\*Olive, Russian Elaeagnus angustifolia L.

\*Osage-orange *Maclura pomifera* (Raf.) Schneid.

Pawpaw Asimina triloba (L.) Dunal. Pecan Carya illinoensis (Wang.) K. Koch Persimmon Diospyros virginiana L. Poplar, silver — see Poplar, white \*Poplar, white Populus alba L. Possumhaw — See Holly, deciduous

Redbud, eastern *Cercis canadensis* L. Redcedar, eastern *Juniperus virginiana* L.

Sassafras Sassafras albidum (Nutt.) Nees. Serviceberry, downy Amelanchier arborea (Michx. f.) Fern. Soapberry Sapindus drummondii Hook. & Arn. Sugarberry Celtis laevigata Willd.

Sycamore, American Platanus occidentalis L. \*Tree-of-heaven *Ailanthus altissima* (Mill.) Swingle

Walnut, black Juglans nigra L. Wild crabapple Pyrus ioensis (Wood) Bailey Willow, black Salix nigra Marsh.

Willow, Carolina Salix caroliniana Michx.

Willow, dwarf prairie Salix humilis Marsh.

Willow, peachleaf Salix amygdaloides Anderss. Willow, sandbar Salix interior Rowlee

\*Introduced and naturalized.

#### **References:**

Little, E.L. National Audubon Society Field Guide to North American Trees: Eastern Region. Knopf. 1980.

Stephens, H.A. *Trees, Shrubs* and Woody Vines in Kansas. University Press of Kansas. Lawrence. 1969.

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