

TREE IDENTIFICATION CHARACTERISTICS OR WHAT AM I SUPPOSED TO LOOK AT?

Trees are cool. Learning how to ID trees and learning about their "personalities" is like making new friends. There's a lot more to know about trees than just how to tell them apart! The more time you spend with trees and in the forest, the more you will understand about some of the neatest places on Earth. But we have to begin somewhere and ID is a great first step.



There are certain parts of a tree that will tell you what species you're looking at. Usually, we think only of leaves. However, this doesn't help us much in winter if the leaves have fallen (not all do!). Leaves on tall trees that are way up in the air don't help us much either. So, we should learn to look at other parts, such as twigs, buds, bud scars, bark, flowers, fruits, branching pattern, tree form, where the tree is growing, and "who" the tree is growing with.



It's not necessary to learn every characteristic of every species (although it's fun). Generally, just one or two features will be enough, but you have to know which ones are important for which tree! That's the hard part. For example, most of us can identify paper birch from just the bark. But how many of us can tell the difference between maples, elms, oaks, and ashes without the leaves? (How many of us can do that even with the leaves!) And, what about all the conifers? Some of the following considerations will help you look in the correct place in a tree ID book or pamphlet.



TWIGS: Slender or chubby? Smooth or hairy? Any spots, ridges, or special colors? Boxelder twigs have a purplish color on the most recent growth. Red maples have reddish twigs.



BUDS: Pointy or blunt? Shiny or dull? Hairy or smooth? Big or small? Colors? Sugar maple have very pointy buds. Oaks have a cluster of "end" buds.



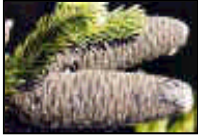
BUD SCARS: These are the places where last year's leaves fell off. They have shapes, sizes, and face patterns unique to each species. This helpful with ashes, butternut, walnut, and hickories because the scars are bigger.



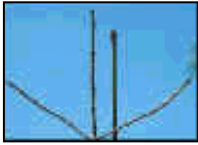
BARK: Rough, smooth, special colors, thickness, patterns, oddities? Bark can be difficult to learn because most trees have bark that changes appearance with age. Only a few trees have really easy bark to recognize, like birches, aspens, or American elm.



FLOWERS: We don't normally think of trees with flowers, but all trees have them. In some cases, the flowers help us with identification. Flowers are also one of the main parts that scientists have used to put trees in categories. Red maple is the first tree to bloom in the spring.



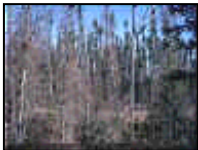
FRUITS: All trees have fruits, too. Cones, nuts, acorns, seeds, and helicopters are just some of the many kinds of fruits that trees produce. A fruit is any kind of organ that hold seeds, not just edible fruits like apples or oranges.



BRANCHING PATTERN: The way in which a tree branches can sometimes be a helpful thing to know. "Opposite" branching occurs only in maples and ashes (at least with U.P. trees). Some shrubs also have opposite branching, so identification of tree saplings may be harder. Most other trees have "alternate" branching. The angle at which branches come off the trunk, or the density of branches in the crown, can be good additional clues in tree ID.



TREE FORM: The overall shape of a tree is the form. Some trees have very distinctive forms. An American elm is shaped like a large flower vase. Or balsam fir has a very pointy crown.



GROWING PLACE or SITE: Some trees, like cedar, black spruce and tamarack, are usually found on wet sites. Yellow birch and hemlock grow in cooler, moister places like ravines and the north side of hills.



TREE ASSOCIATES: Trees, like people, like to "hang" around in certain groups. If you can identify one or two trees in an area, you'll have some clues to what else might grow there. For example, if there is a lot of sugar maple, chances are good that you'll find basswood, beech, and ironwood. Aspen, black ash, and jack pine probably won't be there.



LEAVES: Leaves include needles and scales of conifers. Leaves are one of the best ways to ID a tree, when they are available. Simple or compound? Margins smooth or margins rough? Shape? Size? Color variation? Texture? Any sinuses or lobes? Maples, oaks, beech, and ironwood often keep dry leaves into the winter.

Getting good at identifying trees takes practice. Once you know your trees, it becomes much easier to learn about shrubs, flowers, and wildlife that grow together with the trees. Trees dominate forest ecosystems, so if you have a pretty good idea of what trees are there, you'll have a pretty good idea of what's happening in that environment and what else might be living with those trees.



It's a good thing to know about trees and forests because we need them for many reasons. So, have fun learning to identify trees and discovering how they grow! The forest is a great place to live and work.