‘Leaves’ of Three, Let It Be Should Be ‘Leaflets’ of Three

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Most gardeners have heard of the wise advice “leaves of three, let it be” referring to the pest plant poison ivy. While not quite as catchy, the saying really should be “leaflets of three, let it be.”

Poison ivy has a compound leaf made of three leaflets. The top leaflet has a long stalk.

Poison ivy leaves are compound rather than simple – a single leaf is divided into three separate portions, called leaflets. Plants with three leaflets are often referred to as being trifoliate. Another key identifying characteristic is that one side of a leaflet may have an irregularly toothed margin, while the opposite edge may be smooth or barely toothed.

Poison ivy is typically a vine that can climb quite high by means of aerial rootlets. But older poison ivy plants, especially those that have been cut back repeatedly, can take the form of a shrub.

Poison ivy flowers are rather inconspicuous and usually not noticed by gardeners. The subsequent fruits are greenish white, smooth berries in clusters about the size of currants. Birds and other wildlife eat the berries and then spread the seed in their droppings. So poison ivy can show just about anywhere.

There are a few look-alike plants that gardeners could mistake for poison ivy. Boston ivy is a common landscape vine that is trifoliate, but only in the very young foliage. In Boston ivy, each leaflet is attached by a stalk. In poison ivy, generally only the top leaflet is attached by a stalk. Mature Boston ivy leaves are three-lobed, but not separated into separate leaflets.

Fragrant sumac, a small shrub, is also trifoliate, but none of the leaflets have stalks. Their fruit are red and slightly fuzzy.

All parts of the poison ivy plant, including the stem and roots, contain and secrete a nonvolatile oil that affects the skin. This oil is insoluble in water. That means if you simply wash with water alone after coming into contact with poison ivy, you may spread the oil to other areas and increase the discomfort.

Once established, the woodiness of the poison ivy plant makes it difficult to control. Repeatedly cutting the plant back to the ground may eventually starve the plant; however, each time you cut it you expose yourself to the oil. You can dig up and discard small plants, but if you leave behind any portion of the root system the plant will likely re-sprout.

Several herbicides are available for poison ivy control. Keep in mind, however, that any herbicide that will kill poison ivy will also kill any desirable plants. So if the poison ivy is growing among shrubs and trees, you must apply chemical controls directly to the poison ivy plant and not to any of the other plants. If the poison ivy growth is severe enough, it may be worth sacrificing some desirable plants to eliminate the poison ivy. Always read and follow the label directions before using any pesticide product.

For more information on Poison Ivy, see Purdue Extension Bulletin...