

## Bears



## Forest Pests

Mountain Pine Beetle - Affected species includes Lodgepole Pine, Whitebark Pine, and Limber Pine. Can be identified by the popcorn appearing lumps on the trunk of a tree, and blue staining of wood. Often fatal to affected trees.

Western Spruce Budworm— Affected species includes Douglas-fir, Subalpine Fir, and Engelmann Spruce. Can be identified by silken masses of chewed needles at the ends of branches. Subsequent years of heavy defoliation can reduce the vigor of an affected tree and may lead to mortality.

Whitepine Blister Rust - Affected species includes Whitebark Pine, and Limber Pine. Can be identified by swollen cankers on limbs, limb mortality, and blisters of orange spores on cankers in the spring. Often fatal to affected trees.



More information can be found at  
[www.msuetension.org/gallatin/naturalresources.html](http://www.msuetension.org/gallatin/naturalresources.html)  
[www.gallatinaturalresource.wordpress.com](http://www.gallatinaturalresource.wordpress.com)

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Brad Bauer, Gallatin County MSU Extension Natural Resource Agent

Image Sources:

National Parks Service  
Rocky Mountain Tree Finder  
Montana War on Weeds  
Utah State University

## Concise Guide to Some of Your Southwestern Montana Surroundings.

### Trees

Begin here: { If the tree has needles or scale-like leaves, go to this symbol If the tree has ordinary leaves, go to this symbol

{ If tree has needles, go to this symbol below

If the leaves are scale-like, and bright blue, berry-like fruits, it is  
**Rocky Mountain Juniper**



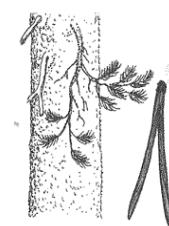
{ If the needles are bundled go to

If they are not bundled together, go to

{ If there are five needles in most bundles, go to

If there are two needles in most bundles, the needles are 1 to 3 inches long and twisted, and cones are prickly, it is

### Lodgepole Pine



If young cones are purple, falling when mature, and cone disintegrates on the ground, it is

**Whitebark Pine**



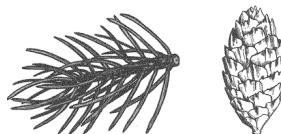
If young cones are green, persist on the tree one year, last several years intact on the ground, it is

**Limber Pine**



If you can easily twirl a needle between thumb and finger, the tips of the cones scales are toothed, notched, or pointed, it is

**Engelmann Spruce**



If you cannot twirl a needle, because it is flattened, go to

If the cones are papery, cones borne upright, leaves usually found on all sides of the stem, it is

**Subalpine Fir**



If the cones are woody, cones hangs downward, cones with prominent three-pointed bracts extending beyond the scales, it is

**Douglas-Fir**



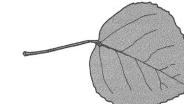
If leaves in pairs directly opposite each other, leaf blade of one part, small tree or shrub, it is

**Rocky Mountain Maple**



If leaves not directly opposite each other, leaves undivided, stems not thorny, it is

**Quacking Aspen**



## Weeds

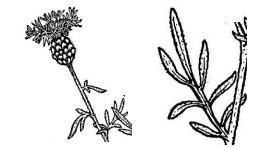
Canada Thistle - Purple flowers fading to white. Spine-tipped leaves.



Houndstongue— Reddish purple flowers. Leaves lack teeth or lobes and are up to 12 inches long. Bur-like adhesive seeds.



Spotted Knapweed - One pinkish-purple flower head on each branch with dark spot on bracts below petals. Deeply lobed, grayish green leaves.



Yellow Toadflax - Yellow, snapdragon-like flowers with orange throat. Numerous pale-green to grey-green leaves.

