

Pine Tree Identification

The two key elements used to identify a pine tree are its cones and its needles. Other helpful characteristics to examine are the shape of the tree and the bark's texture and color.



Serotinous vs Non-Serotinous

Serotinous cones are those that remain entirely closed and only open to release their seeds after a natural fire has taken place. This ensures that new trees will grow after a wild fire occurs.

Some cones are semi-serotinous, which means the cones will only remain partially closed but they still need heat to open.

The most common cones are those that open once they reach maturity and release their seeds in warm weather, when it is ideal for seeds to germinate.



Cone Size

Pine cones vary greatly in size. The largest cones grow up to 24 inches in length, while most cones are around 3-5 inches tall.

Some pine species produce cones that weigh up to 10 pounds, while most cones weigh less than 1 pound.



Needle Fascicles

Pine needles are clustered in groups called fascicles. Different species of pines have different numbers of needles per fascicle. Above are illustrations of needles with two, three, and five needles per fascicle.



Length and Structure

Pine needles are diverse in size and structure. The longest pine needles can grow up to 18 inches in length, while the shortest are only 1 inch long. All needles of true pine trees attach directly to the tree branch, but they differ in structure and arrangement, as seen in the illustrations above.

Pine Tree Field Guide

S Marginson



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