

## AUTUMN NEEDLE CAST OF CONIFERS

- Natural range -** Worldwide, wherever conifers are found.
- Species affected -** All conifers but most conspicuous on pines, spruce, Douglas-fir, and true fir.
- Symptoms -** Older needles turn yellow and drop from tree
- Remarks -** This is part of the normal physiology of conifers. After a given number of years, they cast their oldest needles. The numbers of years needles are retained varies by tree species. If trees are under stress, they may shed their oldest needles several years earlier than normal, giving the tree a tufted appearance.



Normal autumn needle cast on ponderosa pine.