Terrestrial & Palustrine Plant Communities Of Pennsylvania By Jean Fike

Pitch pine - heath woodland

This is a woodland community type that occurs on rocky ridge-tops, on sandy soils, or both. A similar type occurs on serpentinite-derived soils on the Piedmont (see related types section below). Soils for this community are acidic; conditions are dry. Trees are drought-stressed and of small stature. Pinus rigida (pitch pine) is usually the dominant tree, although in southern Pennsylvania, P. virginiana (Virginia pine), and Pinus pungens (Table-mountain pine) may accompany or replace P rigida. Pinus resinosa (red pine) may also occur on some sites. Hardwoods may be present but do not contribute more than 25% of the tree layer. Hardwood associates include *Nyssa sylvatica* (black-gum), Sassafras albidum (sassafras), Betula lenta (sweet birch), Quercus montana (chestnut oak), Q. coccinea (scarlet oak), Betula populifolia (gray birch), and Acer rubrum (red maple). Pinus strobus (eastern white pine) may also occur but is not common. Various shrubs, mostly ericads, form a low shrub layer. Characteristic species include *Gaylussacia baccata* (black huckleberry), Vaccinium angustifolium (low sweet blueberry), V. pallidum (lowbush blueberry), Aronia melanocarpa (black chokeberry), Comptonia peregrine (sweet-fern), Gaultheria procumbens (tea-berry), and Kalmia angustifolia (sheep laurel). Scattered O. ilicifolia (scrub oak) may be present but is not domi-nant. Herbaceous species include Pteridium aquilinum (bracken fern), Carex pensylvanica (Pennsylvania sedge), Carex communis (a sedge), Schizachyrium scoparium (little bluestem), Deschampsia flexuosa (common hair-grass), Melampyrum lineare (cow-wheat), Danthonia spicata (poverty grass), Lespedeza spp. (bush-clovers), and Aralia nudicaulis (wild sarsaparilla). Cladonia spp. and Cladina spp. (reindeer lichens) are also very common. This community may occur as part of the "Ridgetop acidic barren complex."

Related types: This type may contain scattered *Q. ilicifolia* (scrub oak), but sites where *Q. ilicifolia* becomes the dominant shrub should be classified as "Pitch pine -scrub oak woodland". If the hardwood component of the canopy exceeds 25% relative cover, see the "Pitch pine - mixed hardwood woodland" type. The pine-dominated type here often occurs adjacent to and upslope of the more mixed type. On the Piedmont, on areas of serpentine geology, a similar dry pine type occurs with many of the same dominants. For sites in this ecoregion of unknown geology, please read both descriptions.

Range: Glaciated NE, Pittsburgh Plateau, Pocono Plateau, Ridge and Valley, Unglaciated Allegheny Plateau.

Selected references: Illick and Aughanbaugh 1930, Schweitzer and Rawinski 1987.

[Crosswalk: Smith's "Ridgetop Dwarf-tree Forest" (in part), "Appalachian Sand Barren" (in part), TNC's *Pinus rigida / Vaccinium* Woodland Alliance, SAF's Pitch pine (45).]