

Terrestrial & Palustrine Plant Communities Of Pennsylvania

By Jean Fike

Pitch pine - mixed hardwood woodland

This community type occurs on dry, sandy, acidic soils. *Pinus rigida* (pitch pine) contributes between 25% and 75% relative cover. *Pinus pungens* (Table-mountain pine) or *P. resinosa* (red pine) may also occur on some sites.

Hardwood associates include *Quercus montana* (chestnut oak), *Q. coccinea* (scarlet oak), *Q. velutina* (black oak), *Nyssa sylvatica* (black-gum), *Sassafras albidum* (sassafras), *Betula lenta* (sweet birch), *B. populifolia* (gray birch), and *Acer rubrum* (red maple). The shrub layer may be entirely composed of low shrubs like *Vaccinium angustifolium* (low sweet blueberry), *V. pallidum* (lowbush blueberry), *Comptonia perigrina* (sweet-fern), and *Gaylussacia baccata* (black huckle-berry), or may have an additional layer of taller shrubs like *Kalmia latifolia* (mountain laurel), *V. corymbosum* (highbush blueberry), and *Quercus ilicifolia* (scrub oak). Herbaceous species include *Pteridium aquilinum* (bracken fern), *Deschampsia flexuosa* (common hair-grass), *Danthonia spicata* (poverty grass), *Epigaea repens* (trailing arbutus), *Gaultheria procumbens* (teaberry), *Melampyrum lineare* (cow-wheat), *Carex pennsylvanica* (Pennsylvania sedge), *C. communes* (a sedge), *Oryzopsis* spp. (ricegrass), *Aralia nudicaulis* (wild sarsaparilla). Lichens such as *Cladonia* spp. and *Cladina* spp. (reindeer lichens) are abundant in some areas. This community may occur as part of the "Ridgetop acidic barren complex."

Related types: This type is similar to and may grade into the "Pitch pine - scrub oak woodland" community. This type is distinguished from the pine type by having at least 25% of the tree stratum contributed by hardwoods. Likewise, this type is distinguished from the "Dry oak -heath woodland" community by its greater pine component—at least 25% relative cover. The canopy is generally less open than in the "Pitch pine - scrub oak woodland" type, and often occurs adjacent downslope of that type on somewhat less dry or more sheltered sites. See the "Ridgetop acidic barren complex" description for more information.

Range: Glaciated NE, Glaciated NW, Piedmont, 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), TNC's *Quercus (coccinea, velutina) - Pinus rigida* Woodland Alliance, *Quercus (coccinea, velutina) - Pinus rigida - Schizachyrium scoparium* Community, SAF's Pitch pine (45).]