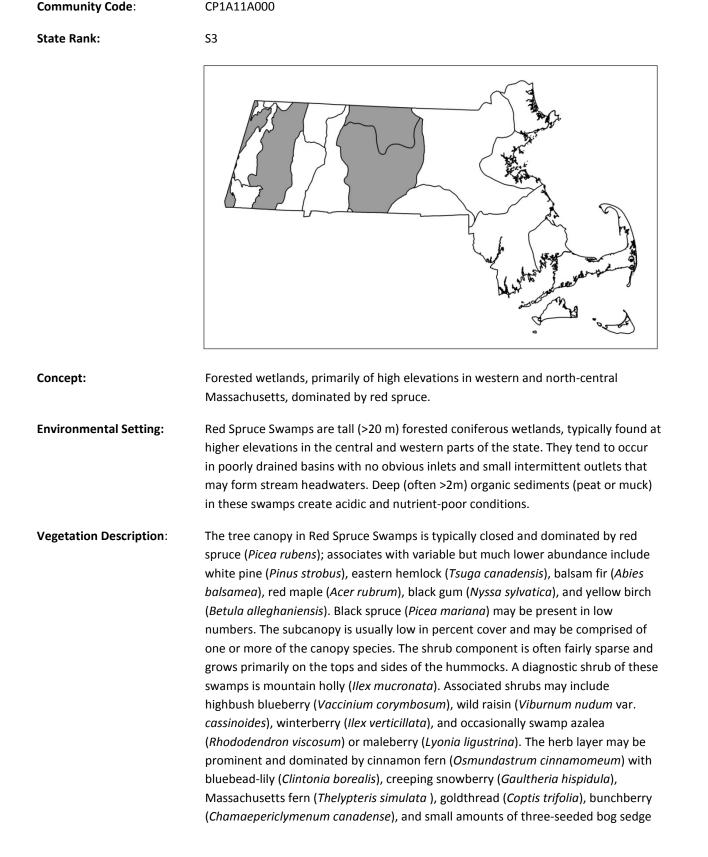


Red Spruce Swamp



	(<i>Carex trisperma</i>). On the drier hummocks, starflower (<i>Lysimachia borealis</i>) and wild sarsaparilla (<i>Aralia nudicaulis</i>) may occur in small amounts. The ground is often a carpet dominated by sphagnum moss and the liverwort <i>Bazzania trilobata</i> .
Differentiating Occurrences:	Red Spruce Swamps have tall, large-diameter trees, dominated by red spruce, generally with an open understory. Creeping snowberry (<i>Gaultheria hispidula</i>) and twinflower (<i>Linnaea borealis</i> ssp. <i>americana</i>) are good indicators of Red Spruce Swamps but do not occur in all examples. Rich Conifer Swamps are characterized by a canopy of mixed red spruce and hemlock, with balsam fir and deciduous trees including black ash (<i>Fraxinus nigra</i>), and species such as spicebush (<i>Lindera benzoin</i>) that indicate less acidic conditions, and pockets of moss rather than sphagnum lawns. Hemlock Swamps are dominated by generally short (<40' tall) black spruce (<i>P. mariana</i>) and tamarack (<i>Larix laricina</i>), with bog-indicator species such as Labrador tea (<i>Rhododendron groenlandicum</i>) and bog laurel (<i>Kalmia polifolia</i>) in the often dense shrub layer.
Associated Fauna:	Red Spruce Swamps are part of the habitat of large mobile animals. Conifer swamps tend to have dense shade and are relatively cool in the summer, making them preferred areas for animals that get hot, such as moose (<i>Alces alces</i>). Red Spruce Swamps can function as vernal pool habitat for amphibian breeding if water remains standing for 2-3 months and they lack fish. Also expected would be northern bird species that use conifer forests such as the declining Rusty Blackbird (<i>Euphagus carolinus</i>).
Public Access:	Greylock State Reservation, Williamstown; Chalet WMA, Dalton; October Mountain State Forest, Washington; Cookson State Forest, New Marlborough; Warwick State Forest, Warwick; Tully Lake Reservation (US Army Corps of Engineers) and Birch Hill WMA, Royalston; Phillipston WMA, Phillipston; Ashburnham State Forest, Ashburnham.
Threats:	Climate change; altered hydrology.
Management Needs:	Timber harvesting should be prohibited at some sites to allow old-growth characteristics to develop.
USNVC/NatureServe:	Picea rubens - Abies balsamea Saturated Forest Alliance Picea rubens-Abies balsamea/Gaultheria hispidula/Sphagnum spp. [CEGL006312]; Picea rubens - Acer rubrum/Nemopanthus mucronatus Forest [CEGL006198].