

Appendix C

Synonymy of Natural Community Types in *Wetland, Woodland, Wildland* and Other Classification Systems

Patch Size: these categories describe the typical size of individual contiguous occurrences of the community type, and the specificity with which the community type is associated with particular environmental conditions and ecological processes.

Matrix: a natural community type that is dominant in the landscape, occupying 1,000 to 100,000 contiguous acres. Matrix communities have broad ecological amplitude, occurring across a wide range of soil and bedrock types, slopes, slope aspects, and landscape positions. Regional scale processes such as climate typically determine their range and distribution.

Large Patch: a natural community type that occurs in the landscape on a scale of 50 to 1,000 acres and is usually associated with a single dominant ecological process or environmental condition such as fire or hydrology.

Small Patch: a natural community type that occurs in the landscape as small, discrete areas typically less than 50 acres, and for some types, consistently under an acre in size. Small patch communities occur where several ecological processes and environmental conditions come together in a very precise way.

State Rank: these ranks indicate the relative rarity of natural community types and are assigned by the Vermont Nongame and Natural Heritage Program.

S1: very rare in the state, generally with fewer than five high quality occurrences.

S2: rare in the state, occurring at a small number of sites or occupying a small total area in the state.

S3: high quality examples are uncommon in the state, but not rare; the community is restricted in distribution for reasons of climate, geology, soils, or other physical factors, or many examples have been severely altered.

S4: widespread in the state, but the number of high quality examples is low or the total acreage occupied by the community type is relatively small.

S5: common and widespread in the state, with high quality examples easily found.

Natural Community Type, Wetland, Woodland, Wildland, Thompson and Sorenson 2000	Patch Size	State Rank	NatureServe. 2004. International Ecological Classification Standard: Terrestrial Ecological Classifications. NatureServe Central Databases. Arlington, VA. U.S.A.
Subalpine Krummholz	S-L	S1	<i>Picea mariana</i> - <i>Abies balsamea</i> / <i>Sibbaldiopsis tridentata</i> Shrubland (CEGL006038); <i>Picea mariana</i> / <i>Kalmia angustifolia</i> Dwarf-shrubland (CEGL006031)
Montane Spruce-Fir Forest	M	S3	<i>Picea rubens</i> - <i>Abies balsamea</i> - <i>Sorbus americana</i> Forest (CEGL006128)
Variant: Montane Fir Forest	L-M	S3	<i>Abies balsamea</i> - (<i>Betula papyrifera</i> var. <i>cordifolia</i>) Forest (CEGL006112)
Variant: Montane Spruce Forest	L-M	S3	
Lowland Spruce-Fir Forest	L-M	S3	<i>Picea mariana</i> - <i>Picea rubens</i> / <i>Pleurozium schreberi</i> Forest (CEGL006361); <i>Picea rubens</i> - <i>Betula</i> spp. - <i>Acer rubrum</i> Forest (CEGL006505) (mid-successional)
Variant: Lowland Spruce-Fir Forest, well drained phase			<i>Picea rubens</i> - <i>Abies balsamea</i> - <i>Betula papyrifera</i> Forest (CEGL006273); <i>Picea mariana</i> - <i>Picea rubens</i> / <i>Rhododendron canadense</i> / <i>Cladina</i> spp. Woodland (CEGL006421)
Montane Yellow Birch-Red Spruce Forest	M	S3	<i>Picea rubens</i> - <i>Betula alleghaniensis</i> / <i>Dryopteris campyloptera</i> Forest (CEGL0006267)
Variant: Montane Yellow Birch-Sugar Maple-Red Spruce Forest			
Red Spruce-Northern Hardwood Forest	M	S4	<i>Picea rubens</i> - <i>Betula alleghaniensis</i> / <i>Dryopteris campyloptera</i> Forest (CEGL006267)
Boreal Talus Woodland	S	S3	<i>Picea rubens</i> / <i>Ribes glandulosum</i> Woodland (CEGL006250)
Cold Air Talus Woodland	S	S1	<i>Picea mariana</i> / <i>Ledum groenlandicum</i> - <i>Empetrum nigrum</i> / <i>Cladina</i> spp. Dwarf-shrubland (CEGL006268)
Northern Hardwood Forest	M	S5	<i>Acer saccharum</i> - <i>Betula alleghaniensis</i> - <i>Fagus grandifolia</i> / <i>Viburnum lantanoides</i> Forest (CEGL006252); <i>Betula papyrifera</i> / <i>Acer saccharum</i> Mixed Hardwoods Forest (CEGL002464) (early-successional); <i>Populus (tremuloides, grandidentata)</i> - <i>Betula (populifolia, papyrifera)</i> Forest (CEGL006303) (early-successional)
Variant: Beech-Red Maple-Hemlock Northern Hardwood Forest			

Vermont Nongame and Natural Heritage Program, Thompson 1996	Society of American Foresters, Eyre 1980	U.S. Fish and Wildlife Service, Cowardin et al. 1979
Subalpine Heath/Krummholz Community	Balsam Fir (Type 5); Black Spruce (Type 12)	
Montane Spruce-Fir Forest	Red Spruce-Balsam Fir (Type 33); Paper Birch-Red Spruce-Balsam Fir (Type 35)	
Montane Spruce-Fir Forest	Balsam Fir (Type 5)	
Montane Spruce-Fir Forest	Red Spruce (Type 32)	
Lowland Spruce-Fir Forest	Red Spruce-Balsam Fir (Type 33); Black Spruce (Type 12); White Spruce (Type 107)	
Lowland Spruce-Fir Forest	Balsam Fir (Type 5, subtype 1); Black Spruce (Type 12, subtype a)	
High-Elevation Hardwoods-Spruce Forest	Red Spruce-Yellow Birch (Type 30); Paper Birch (Type 18); Paper Birch-Red Spruce-Balsam Fir (Type 35)	
High-Elevation Hardwoods-Spruce Forest	Sugar Maple (Type 27, subtype 2)	
High-Elevation Hardwoods-Spruce Forest	Red Spruce-Yellow Birch (Type 30); Red Spruce-Sugar Maple-Beech (Type 31)	
Northern/High-Elevation Talus Woodland	Paper Birch (Type 18)	
Cold-air Talus Woodland	Black Spruce (Type 12)	
Mesic Northern Hardwood Forest (Beech-Birch-Maple Forest)	Sugar Maple-Beech-Yellow Birch (Type 25); Sugar Maple (Type 27); Beech-Sugar Maple (Type 60)	
Mesic Northern Hardwood Forest (Beech-Birch-Maple Forest)	Beech-Sugar Maple (Type 60); Red Maple (Type 108)	

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Variant: Sugar Maple-White Ash-Jack-in-the-pulpit Northern Hardwood Forest			<i>Acer saccharum</i> - (<i>Fraxinus americana</i>) / <i>Arisaema triphyllum</i> Forest (CEGL006211)
Variant: Yellow Birch-Northern Hardwood Forest			
Variant: White Pine-Northern Hardwood Forest			<i>Acer saccharum</i> - <i>Pinus strobus</i> / <i>Acer pensylvanicum</i> Forest (CEGL005005)
Rich Northern Hardwood Forest	S-L	S4	<i>Acer saccharum</i> - <i>Fraxinus americana</i> - <i>Tilia americana</i> / <i>Acer spicatum</i> / <i>Caulophyllum thalictroides</i> Forest (CEGL005008)
Variant: Northern Hardwood Limestone Forest			
Mesic Red Oak-Northern Hardwood Forest	L	S4	<i>Quercus rubra</i> - <i>Acer saccharum</i> - <i>Fagus grandifolia</i> / <i>Viburnum acerifolium</i> Forest (CEGL006173)
Hemlock Forest	S	S4	<i>Tsuga canadensis</i> - (<i>Betula alleghaniensis</i>) - <i>Picea rubens</i> / <i>Cornus canadensis</i> Forest (CEGL006129) (NAP); <i>Pinus strobus</i> - <i>Tsuga canadensis</i> Lower New England / Northern Piedmont Forest (CEGL006328)
Variant: Hemlock-Red Spruce Forest			<i>Pinus strobus</i> - <i>Tsuga canadensis</i> - <i>Picea rubens</i> Forest (CEGL006324)
Hemlock-Northern Hardwood Forest	L-M	S4	<i>Tsuga canadensis</i> - (<i>Betula alleghaniensis</i>) - <i>Picea rubens</i> / <i>Cornus canadensis</i> Forest (CEGL006129) (NAP); <i>Tsuga canadensis</i> - <i>Betula alleghaniensis</i> Lower New England / Northern Piedmont Forest (CEGL006109) (mesic); <i>Tsuga canadensis</i> - <i>Fagus grandifolia</i> - <i>Quercus rubra</i> Forest (CEGL006088) (LNE, dry)
Variant: Hemlock-White Pine-Northern Hardwood Forest			
Variant: Yellow Birch-Hemlock Forest			
Northern Hardwood Talus Woodland	S	S3	<i>Acer saccharum</i> - <i>Tilia americana</i> - <i>Fraxinus americana</i> / <i>Ostrya virginiana</i> / <i>Geranium robertianum</i> Woodland (CEGL005058) (calcareous); <i>Betula alleghaniensis</i> - <i>Quercus rubra</i> / <i>Polypodium virginianum</i> Woodland (CEGL006320) (acidic)

Vermont Nongame and Natural Heritage Program, Thompson 1996	Society of American Foresters, Eyre 1980	U.S. Fish and Wildlife Service, Cowardin et al. 1979
Mesic Northern Hardwood Forest (Beech-Birch-Maple Forest)	Sugar Maple (Type 27, subtype 3)	
Mesic Northern Hardwood Forest (Beech-Birch-Maple Forest)	Sugar Maple (Type 27, subtype 2)	
Mesic Northern Hardwood Forest (Beech-Birch-Maple Forest)	Eastern White Pine (Type 21)	
Rich Northern Hardwood Forest	Sugar Maple-Basswood (Type 26); Sugar Maple (Type 27, subtype 3)	
Rich Northern Hardwood Forest	Sugar Maple (Type 27, subtype 3)	
Mesic Red Oak-Northern Hardwood Forest	Northern Red Oak (Type 55)	
Hemlock Forest	Eastern Hemlock (Type 23); White Pine-Hemlock (Type 22)	
Hemlock Forest	White Pine-Hemlock (Type 22)	
Hemlock Forest	Eastern Hemlock (Type 23); Hemlock-Yellow Birch (Type 24)	
Hemlock Forest	White Pine-Hemlock (Type 22)	
Hemlock Forest	Hemlock-Yellow Birch (Type 24)	
Northern Hardwoods Talus Woodland		

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Red Pine Forest or Woodland	S	S2	<i>Pinus resinosa</i> / <i>Gaylussacia baccata</i> - <i>Vaccinium angustifolium</i> Woodland (CEGL006010); <i>Pinus strobus</i> - <i>Pinus resinosa</i> / <i>Cornus canadensis</i> Forest (CEGL006253)
Pitch Pine-Oak-Heath Rocky Summit	S	S1	<i>Pinus rigida</i> / (<i>Quercus illicifolia</i>) / <i>Photinia melanocarpa</i> / <i>Deschampsia flexuosa</i> Woodland (CEGL006116)
Limestone Bluff Cedar-Pine Forest	S	S2	<i>Thuja occidentalis</i> / <i>Carex eburnea</i> Forest (CEGL006021); <i>Thuja occidentalis</i> Limestone Bedrock Woodland (CEGL005050) (pavement woodland)
Red Cedar Woodland	S	S2	<i>Juniperus virginiana</i> - <i>Fraxinus americana</i> / <i>Danthonia spicata</i> - <i>Poa compressa</i> Woodland (CEGL006002) (acidic); <i>Juniperus virginiana</i> - <i>Ostrya virginiana</i> / <i>Carex eburnea</i> Woodland (CEGL006180) (calcareous)
Dry Oak Woodland	S	S2	<i>Quercus prinus</i> - <i>Quercus (rubra, velutina)</i> / <i>Gaylussacia baccata</i> Forest (CEGL006282)
Dry Oak Forest	S	S3	<i>Quercus rubra</i> - (<i>Quercus prinus</i>) / <i>Vaccinium</i> spp. - <i>Deschampsia flexuosa</i> Woodland (CEGL006134); <i>Quercus rubra</i> - <i>Acer rubrum</i> - <i>Betula</i> spp. - <i>Pinus strobus</i> Forest (CEGL006506) (successional)
Dry Oak-Hickory-Hophornbeam Forest	S-L	S3	<i>Quercus rubra</i> - <i>Carya (glabra, ovata)</i> / <i>Ostrya virginiana</i> / <i>Carex lucorum</i> Forest (CEGL006301)
Variant: Sugar Maple-Hophornbeam Forest			
Mesic Maple-Ash-Hickory-Oak Forest	L	S3	<i>Acer saccharum</i> - <i>Quercus rubra</i> / <i>Hepatica nobilis</i> var. <i>obtusa</i> Forest (CEGL006046) (mesic, calcareous); <i>Quercus (alba, rubra, velutina)</i> / <i>Cornus florida</i> / <i>Viburnum acerifolium</i> Forest (CEGL006336) (dry, acidic); <i>Carya (glabra, ovata)</i> - <i>Fraxinus americanus</i> - <i>Quercus</i> spp. Forest (CEGL006236) (dry, calcareous)
Variant: Transition Hardwoods Limestone Forest			<i>Acer saccharum</i> - <i>Quercus muehlenbergii</i> / <i>Carex platyphylla</i> Forest (CEGL006162)
Valley Clayplain Forest	L-M	S2	<i>Quercus alba</i> - <i>Acer rubrum</i> - <i>Carya ovata</i> / <i>Viburnum acerifolium</i> / <i>Waldsteinia fragaroides</i> Forest (CEGL006122)
Variant: Wet Clayplain Forest			
White Pine-Red Oak-Black Oak Forest	L	S3	<i>Pinus strobus</i> - <i>Quercus (rubra, velutina)</i> - <i>Fagus grandifolia</i> Forest (CEGL006293)

Vermont Nongame and Natural Heritage Program, Thompson 1996	Society of American Foresters, Eyre 1980	U.S. Fish and Wildlife Service, Cowardin et al. 1979
Red Pine Forest/Woodland	Red Pine (Type 15)	
Pitch Pine-Oak-Heath Rocky Summit	Pitch Pine (Type 45)	
Lake Bluff Cedar-Pine Forest (Northern White Cedar Forest)	Northern White Cedar (Type 37)	
Red Cedar Woodland	Eastern Redcedar (Type 46)	
Dry Oak Woodland	Chestnut Oak (Type 44); Northern Red Oak (Type 55)	
Dry Oak-Hickory Hophornbeam Forest; Dry Oak Woodland	Chestnut Oak (Type 44); Northern Red Oak (Type 55)	
Dry Oak-Hickory-Hophornbeam Forest	Northern Red Oak (Type 55); Sugar Maple (Type 27, subtype 1)	
Dry Oak-Hickory-Hophornbeam Forest		
Mesic Transition Hardwood Forest (Mesic Oak-Hickory-Northern Hardwood Forest)	Northern Red Oak (Type 55); Sugar Maple (Type 27, subtype 4); White Oak-Black Oak-Northern Red Oak (Type 52)	
Mesic Transition Hardwood Forest (Mesic Oak-Hickory-Northern Hardwood Forest)		
Lake Plain Bottomland Forest (Clay Plain Forest)		
Lake Plain Bottomland Forest (Clay Plain Forest)		
Mesic Pine-Oak Forest	White Pine-Northern Red Oak-Red Maple (Type 20); Eastern White Pine (Type 21); White Oak-Black Oak-Northern Red Oak (Type 52)	

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Pine-Oak-Heath Sandplain Forest	L	S1	<i>Pinus rigida</i> - <i>Quercus (velutina, prinus)</i> Forest (CEGL006290); <i>Pinus rigida</i> / <i>Vaccinium</i> spp. - <i>Gaylussacia baccata</i> Woodland (CEGL005046)
Transition Hardwood Talus Woodland	S	S3	<i>Betula alleghaniensis</i> - <i>Quercus rubra</i> / <i>Polypodium virginianum</i> Woodland (CEGL006320) (acidic)
Variant: Transition Hardwood Limestone Talus Woodland			<i>Acer saccharum</i> - <i>Fraxinus americana</i> - <i>Juglans cinerea</i> / <i>Staphylea trifolia</i> Forest (CEGL006020); <i>Thuja occidentalis</i> Carbonate Talus Woodland (CEGL005172)
Riverside Outcrop	S	S4	<i>Andropogon gerardii</i> - <i>Campanula rotundifolia</i> - <i>Solidago simplex</i> Sparse Vegetation (CEGL006284) (LNE); <i>Vaccinium</i> spp. / <i>Danthonia spicata</i> - <i>Solidago puberula</i> Sparse Vegetation (CEGL006531) (NAP, acidic); <i>Campanula rotundifolia</i> - <i>Packera pauperula</i> - (<i>Aquilegia canadensis</i>) Sparse Vegetation (CEGL006532) (NAP, calcareous)
Erosional River Bluff	S	S2	Small Eroding Bluffs Midwestern Sparse Vegetation (CEGL002315)
Lake Shale or Cobble Beach	S	S3	Limestone Cobble - Gravel Great Lakes Shore Sparse Vegetation (CEGL005169); <i>Dasiphora fruticosa</i> ssp. <i>floribunda</i> / <i>Clinopodium arkansanum</i> - <i>Argentina anserina</i> - <i>Primula mistassinica</i> Sparse Vegetation (CEGL002506) (calcareous bedrock shores)
Lake Sand Beach	S	S2	Inland Freshwater Strand Beach Sparse Vegetation (CEGL002310); <i>Cakile edentula</i> Great Lakes Shore Sparse Vegetation (CEGL005162) (Lake Champlain)
Sand Dune	S	S1	<i>Ammophila breviligulata</i> - (<i>Schizachyrium scoparium</i>) Herbaceous Vegetation (CEGL005098); <i>Populus deltoides</i> - (<i>Juniperus virginiana</i>) Dune Woodland (CEGL005119)
Alpine Meadow	S	S1	<i>Vaccinium uliginosum</i> - <i>Rhododendron lapponicum</i> / <i>Juncus trifidus</i> Dwarf-shrubland (CEGL006298) (dominant); <i>Carex bigelowii</i> Herbaceous Vegetation (CEGL006081) (sedge lawns); <i>Diapensia lapponica</i> Dwarf-shrubland (CEGL006322) (very exposed); <i>Vaccinium uliginosum</i> / <i>Sibbaldiopsis tridentata</i> Sparse Vegetation (CEGL006533) (subalpine, sparsely vegetated)
Boreal Outcrop	S	S4	<i>Vaccinium angustifolium</i> - <i>Sorbus americana</i> / <i>Sibbaldiopsis tridentata</i> Dwarf-shrubland (CEGL005094); <i>Picea rubens</i> / <i>Vaccinium angustifolium</i> - <i>Sibbaldiopsis tridentata</i> Woodland (CEGL006053)
Serpentine Outcrop	S	S1	<i>Adiantum aleuticum</i> - <i>Asplenium</i> spp. - <i>Cerastium arvense</i> Sparse Vegetation (CEGL006104)

Vermont Nongame and Natural Heritage Program, Thompson 1996	Society of American Foresters, Eyre 1980	U.S. Fish and Wildlife Service, Cowardin et al. 1979
Pine-Oak-Heath Sandplain Forest	White Pine-Northern Red Oak-Red Maple (Type 20); Pitch Pine (Type 45)	
Transition Hardwoods Talus Woodland		
Riverside Outcrop Community		
Erosional River Bluff Community		
Lakeshore Dry Shale Cobble Community		Lacustrine Littoral Unconsolidated Cobble/Gravel Shore, Intermittently Flooded (L2US1)
Lake Sand Beach		Lacustrine Littoral Unconsolidated Sand Shore, Intermittently Flooded (L2US2)
Sand Dune Community		
Alpine Tundra Community		
Boreal Outcrop Community		
Serpentine Outcrop Community		

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Temperate Acidic Outcrop	S	S4	<i>(Pinus strobus, Quercus rubra) / Danthonia spicata</i> Acid Bedrock Wooded Herbaceous Vegetation (CEGL005101)
Temperate Calcareous Outcrop	S	S3	<i>Thuja occidentalis / Solidago ptarmicoides</i> Woodland (CEGL006093) (includes openings)
Boreal Acidic Cliff	S	S4	<i>Polypodium (virginianum, appalachianum)</i> Cliff Sparse Vegetation (CEGL006528)
Boreal Calcareous Cliff	S	S2	<i>Carex scirpoidea</i> Alkaline Cliff Sparse Vegetation (CEGL006526)
Temperate Acidic Cliff	S	S4	<i>Juniperus virginiana - Corydalis sempervirens</i> Cliff Sparse Vegetation (CEGL006422)
Temperate Calcareous Cliff	S	S3	<i>Pellaea atropurpurea</i> Cliff Sparse Vegetation (CEGL006527); Limestone - Dolostone Great Lakes Shore Cliff Sparse Vegetation (CEGL002504) (Lake Champlain)
Open Talus	S	S2	Limestone - Dolostone Talus Sparse Vegetation (CEGL002308); <i>Polypodium (virginianum, appalachianum) / Lichen spp.</i> Nonvascular Vegetation (CEGL006534)
Variant: Shale Talus			<i>Penstemon hirsutus</i> Sparse Vegetation (Provisional) (CEGL006535)
Silver Maple-Ostrich Fern Riverine Floodplain Forest	L	S3	<i>Acer saccharinum - (Populus deltoides) / Matteuccia struthiopteris - Laportea canadensis</i> Forest (CEGL006147)
Variant: Northern Conifer Floodplain Forest			<i>Acer rubrum - Abies balsamea / Viburnum nudum var. cassinoides</i> Floodplain Forest (CEGL006501); <i>Populus balsamifera - Fraxinus nigra / Matteuccia struthiopteris</i> Forest (CEGL006432)
Silver Maple-Sensitive Fern Riverine Floodplain Forest	L	S3	<i>Acer saccharinum / Onoclea sensibilis - Boehmeria cylindrica</i> Forest (CEGL006176)
Sugar Maple-Ostrich Fern Riverine Floodplain Forest	S	S2	<i>Acer saccharum - Fraxinus spp. - Tilia americana / Matteuccia struthiopteris - Ageratina altissima</i> Forest (CEGL006114); <i>Acer saccharum / Ostrya virginiana / Brachyletrum erectum</i> Floodplain Forest (CEGL006504)
Lakeside Floodplain Forest	S	S3	<i>Acer saccharinum / Onoclea sensibilis - Boehmeria cylindrica</i> Forest (CEGL006176)
Red Maple-Black Ash Swamp	S-L	S4	<i>Acer rubrum - Fraxinus nigra - (Tsuga canadensis) / Tiarella cordifolia</i> Forest (CEGL006502) (seepage type); <i>Acer rubrum / Nemopanthus mucronatus - Vaccinium corymbosum</i> Forest (CEGL006220) (acidic basin); <i>Acer rubrum / Carex stricta - Onoclea sensibilis</i> Woodland (CEGL006119)

Vermont Nongame and Natural Heritage Program, Thompson 1996	Society of American Foresters, Eyre 1980	U.S. Fish and Wildlife Service, Cowardin et al. 1979
Temperate Acidic Outcrop Community		
Temperate Calcareous Outcrop Community		
Boreal Acidic Cliff Community		
Boreal Calcareous Cliff Community		
Temperate Acidic Cliff Community		
Temperate Calcareous Cliff Community		
Large Open Talus		
Shale Talus		
Riverine Floodplain Forest	Silver Maple-American Elm (Type 62)	Palustrine Broad-leaved Deciduous Forested Wetland, Seasonally Flooded (PF01C)
Riverine Floodplain Forest		Palustrine Broad-leaved Deciduous/Needle-leaved Evergreen Forested Wetland, Seasonally Flooded (PF01C)
Riverine Floodplain Forest	Silver Maple-American Elm (Type 62)	Palustrine Broad-leaved Deciduous Forested Wetland, Seasonally Flooded (PF01C)
Riverine Floodplain Forest	Sugar Maple-Basswood (Type 26)	Palustrine Broad-leaved Deciduous Forested Wetland, Seasonally Flooded (PF01C)
Lakeside Floodplain Forest	Silver Maple-American Elm (Type 62)	Palustrine Broad-leaved Deciduous Forested Wetland, Seasonally Flooded (PF01C)
Red Maple-Black Ash Swamp	Red Maple (Type 108); Black Ash-American Elm-Red Maple (Type 39)	Palustrine Broad-leaved Deciduous Forested Wetlands (PF01)

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Red or Silver Maple-Green Ash Swamp	L	S3	<i>Acer (rubrum, saccharinum)</i> - <i>Fraxinus</i> spp. - <i>Ulmus americana</i> Forest (CEGL005038) (STL); <i>Acer rubrum</i> - <i>Fraxinus (pennsylvanica, americana)</i> / <i>Lindera bezoin</i> / <i>Symplocarpus foetidus</i> Seasonally Flooded Forest (CEGL006406) (LNE)
Calcareous Red Maple-Tamarack Swamp	S	S2	<i>Fraxinus nigra</i> - <i>Acer rubrum</i> - (<i>Larix laricina</i>) / <i>Rhamnus alnifolia</i> Saturated Forest (CEGL006009)
Red Maple-Black Gum Swamp	S	S2	<i>Acer rubrum</i> - <i>Nyssa sylvatica</i> - <i>Betula alleghaniensis</i> / <i>Sphagnum</i> spp. Forest (CEGL006014)
Red Maple-Northern White Cedar Swamp	L	S3	<i>Thuja occidentalis</i> - <i>Acer rubrum</i> / <i>Cornus sericea</i> Forest (CEGL006199)
Red Maple-White Pine-Huckleberry Swamp	S	S1	
Northern White Cedar Swamp	S	S3	<i>Thuja occidentalis</i> / <i>Sphagnum (girgensohnii, warnstorffii)</i> Forest (CEGL006007)
Variant: Northern White Cedar Sloping Seepage Forest			<i>Thuja occidentalis</i> - (<i>Picea rubens</i>) / <i>Tiarella cordifolia</i> Forest (CEGL006175)
Variant: Boreal Acidic Northern White Cedar Swamp			<i>Thuja occidentalis</i> - <i>Abies balsamea</i> / <i>Ledum groenlandicum</i> / <i>Carex trisperma</i> Woodland (CEGL006507)
Variant: Hemlock-Northern White Cedar Swamp			
Spruce-Fir Tamarack Swamp	L	S3	<i>Picea rubens</i> - <i>Abies balsamea</i> / <i>Gaultheria hispida</i> / <i>Osmunda cinnamomea</i> / <i>Sphagnum</i> spp. Forest (CEGL006312)
Variant: Red Spruce-Hardwood Swamp			<i>Picea rubens</i> - <i>Acer rubrum</i> / <i>Nemopanthus mucronatus</i> Forest (CEGL006198)
Black Spruce Swamp	S	S2	<i>Picea mariana</i> - (<i>Larix laricina</i>) / <i>Ledum groenlandicum</i> / <i>Sphagnum</i> spp. Forest (CEGL005271)

Vermont Nongame and Natural Heritage Program, Thompson 1996	Society of American Foresters, Eyre 1980	U.S. Fish and Wildlife Service, Cowardin et al. 1979
Red or Silver Maple-Green Ash Swamp	Silver Maple-American Elm (Type 62)	Palustrine Broad-leaved Deciduous Forested Wetlands (PFO1C)
Calcareous Tamarack-Red Maple Swamp	Red Maple (Type 108); Black Ash-American Elm-Red Maple (Type 39)	Palustrine Broad-leaved and Needle-leaved Deciduous Forested Saturated Wetland (PFO1/2B)
Red Maple-Black Gum Swamp	Black Ash-American Elm-Red Maple (Type 39)	Palustrine Broad-leaved Deciduous Saturated Forested Wetland (PFO1B)
Red Maple-Northern White Cedar Swamp (Hardwood Cedar Swamp)	Northern White Cedar (Type 37); Black Ash-American Elm-Red Maple (Type 39)	Palustrine Broad-leaved Deciduous/Needle-leaved Evergreen Forested Saturated Wetland (PFO1/4B)
	Red Maple (Type 108); Black Ash-American Elm-Red Maple (Type 39)	Palustrine Broad-leaved Deciduous and Needle-leaved Evergreen Saturated Forested Wetland (PFO1/4B)
Northern White Cedar Swamp	Northern White Cedar (Type 37); Balsam Fir (Type 5, subtype 2)	Palustrine Needle-leaved Evergreen Forested Wetland (PFO4)
Northern White Cedar Swamp	Northern White Cedar (Type 37)	Palustrine Needle-leaved Evergreen Forested Wetland (PFO4)
Northern White Cedar Swamp	Northern White Cedar (Type 37); Balsam Fir (Type 5, subtype 2)	Palustrine Needle-leaved Evergreen Forested Wetland (PFO4)
Northern White Cedar Swamp	Northern White Cedar (Type 37)	Palustrine Needle-leaved Evergreen Forested Wetland (PFO4)
Spruce-Fir-Tamarack Swamp	Red Spruce-Balsam Fir (Type 33); Black Spruce-Tamarack (Type 13)	Palustrine Needle-leaved Evergreen and Deciduous Forested Wetland (PFO4/2)
Spruce-Fir-Tamarack Swamp	Red Spruce-Balsam Fir (Type 33)	Palustrine Needle-leaved Evergreen and Deciduous Forested Wetland (PFO4/2)
Black Spruce Swamp	Black Spruce (Type 12, subtypes c and d); Black Spruce-Tamarack (Type 13)	Palustrine Needle-leaved Evergreen Forested Wetland (PFO4)

Natural Community Type, Wetland, Woodland, Wildland, Thompson and Sorenson 2000	Patch Size	State Rank	NatureServe. 2004. International Ecological Classification Standard: Terrestrial Ecological Classifications. NatureServe Central Databases. Arlington, VA. U.S.A.
Hemlock Swamp	S	S2	<i>Tsuga canadensis</i> - <i>Betula alleghaniensis</i> / <i>Ilex verticillata</i> / <i>Sphagnum</i> spp. Forest (CEGL006226)
Variant: Hemlock-Hardwood Swamp			<i>Betula alleghaniensis</i> - <i>Acer rubrum</i> - (<i>Tsuga canadensis</i> , <i>Abies balsamea</i>) / <i>Osmunda cinnamomea</i> Forest (CEGL006380)
Seep	S	S4	<i>Chrysosplenium americanum</i> Herbaceous Vegetation (CEGL006193)
Vernal Pool	S	S3	
Dwarf Shrub Bog	S	S2	<i>Kalmia angustifolia</i> - <i>Chamaedaphne calyculata</i> - (<i>Picea mariana</i>) / <i>Cladina</i> spp. Dwarf-shrubland (CEGL006225) (ombrotrophic); <i>Rhododendron canadense</i> - <i>Chamaedaphne calyculata</i> Dwarf-shrubland (CEGL006514) (weakly minerotrophic)
Black Spruce Woodland Bog	S	S2	<i>Picea mariana</i> / <i>Ledum groenlandicum</i> / <i>Carex trisperma</i> / <i>Sphagnum</i> spp. Forest (CEGL002485) (NAP); <i>Picea mariana</i> / (<i>Vaccinium corymbosum</i> , <i>Gaylussacia baccata</i>) / <i>Sphagnum</i> spp. Woodland (CEGL006098) (LNE)
Pitch Pine Woodland Bog	S	S1	<i>Pinus rigida</i> / <i>Chamaedaphne calyculata</i> / <i>Sphagnum</i> spp. Woodland (CEGL006194)
Alpine Peatland	S	S1	<i>Empetrum nigrum</i> - <i>Vaccinium uliginosum</i> - <i>Vaccinium oxycoccos</i> / <i>Rubus chamaemorus</i> Dwarf-shrubland (CEGL006140)
Poor Fen	S	S2	<i>Chamaedaphne calyculata</i> / <i>Eriophorum virginicum</i> / <i>Sphagnum rubellum</i> Dwarf-shrubland (CEGL006513) (shrubby); <i>Carex oligosperma</i> , <i>exilis</i>) - <i>Chamaedaphne calyculata</i> Shrub Herbaceous Vegetation (CEGL006524) (sedgy); <i>Carex limosa</i> - <i>Rhynchospora alba</i> / <i>Sphagnum pulchrum</i> - <i>Cladopodiella</i> sp. Herbaceous Vegetation (CEGL006522) (mud-bottoms and hollows); <i>Sphagnum cuspidatum</i> , <i>torreyanum</i>) - <i>Vaccinium macrocarpon</i> Nonvascular Vegetation (CEGL006394) (moss lawn); <i>Sphagnum rubellum</i> - <i>Vaccinium oxycoccos</i> Nonvascular Vegetation (CEGL006135) (moss lawn)
Intermediate Fen	S	S2	<i>Myrica gale</i> - <i>Chamaedaphne calyculata</i> / <i>Carex (lasiocarpa, utriculata)</i> - <i>Utricularia</i> spp. Shrub Herbaceous Vegetation (CEGL006302) (weakly minerotrophic); <i>Myrica gale</i> - <i>Dasiphora fruticosa</i> ssp. <i>floribunda</i> / <i>Carex lasiocarpa</i> - <i>Cladium mariscoides</i> Shrub Herbaceous Vegetation (CEGL006068)

Vermont Nongame and Natural Heritage Program, Thompson 1996	Society of American Foresters, Eyre 1980	U.S. Fish and Wildlife Service, Cowardin et al. 1979
Hemlock Swamp	Hemlock-Yellow Birch (Type 24)	Palustrine Needle-leaved Evergreen Forested Wetland (PFO4)
Hemlock Swamp	Hemlock-Yellow Birch (Type 24)	Palustrine Needle-leaved Evergreen Forested Wetland (PFO4)
Woodland Seep/Spring Run		Palustrine Forested Saturated Wetland (PFOB)
Vernal Woodland Pool		
Dwarf Shrub Bog		Palustrine Scrub-Shrub Broad-leaved Evergreen Saturated Acid Wetland (PSS3Ba)
Black Spruce Bog (Woodland)	Black Spruce (Type 12, subtypes c and d)	Palustrine Scrub-Shrub Needle-leaved Evergreen Saturated Wetland (PSS4B)
Pitch Pine Bog		Palustrine Evergreen Forested/Scrub-Shrub Broad-leaved Evergreen Saturated Acid Wetland (PFO4/SS3Ba)
Dwarf Shrub Bog		Palustrine Scrub-Shrub Broad-leaved Evergreen Saturated Acid Wetland (PSS3Ba)
Poor Fen		Palustrine Scrub-Shrub and Emergent Broad-leaved Evergreen Saturated Wetland (PSS3/EMB)
Intermediate Fen		Palustrine Emergent Saturated Wetland (PEMB)

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Rich Fen	S	S2	<i>Carex (interior, hystericina, flava) - Eriophorum alpinum</i> Shrub Herbaceous Vegetation (CEGL006331) (NAP, sedgy); <i>Dasiphora fruticosa</i> ssp. <i>floribunda</i> - <i>Carex lasiocarpa</i> / <i>Campylium stellatum</i> Shrub Herbaceous Vegetation (CEGL006525) (NAP, shrubby); <i>Cornus racemosa</i> / <i>Carex (sterilis, hystericina, flava)</i> Shrub Herbaceous Vegetation (CEGL006123) (LNE)
Shallow Emergent Marsh	S	S4	<i>Calamagrostis canadensis</i> - <i>Scirpus</i> spp. - <i>Dulichium arundinaceum</i> Herbaceous Vegetation (CEGL006519) (broadly defined); <i>Calamagrostis canadensis</i> - <i>Phalaris arundinacea</i> Herbaceous Vegetation (CEGL005174); <i>Phalaris arundinacea</i> Eastern Herbaceous Vegetation (CEGL006044)
Sedge Meadow	S	S4	<i>Carex stricta</i> - <i>Carex vesicaria</i> Herbaceous Vegetation (CEGL006412)
Cattail Marsh	S-L	S4	<i>Typha (angustifolia, latifolia)</i> - (<i>Schoenoplectus</i> spp.) Eastern Herbaceous Vegetation (CEGL006153) (NAP, LNE); <i>Typha</i> spp. - <i>Schoenoplectus tabernaemontani</i> - Mixed Herbs Southern Great Lakes Shore Herbaceous Vegetation (CEGL005112) (STL)
Deep Broadleaf Marsh	S	S4	<i>Pontederia cordata</i> - <i>Peltandra virginica</i> - <i>Sagittaria latifolia</i> Herbaceous Vegetation (CEGL006191)
Wild Rice Marsh	S	S3	<i>Zizania (aquatica, palustris)</i> Herbaceous Vegetation (CEGL002382)
Deep Bulrush Marsh	S-L	S4	<i>Schoenoplectus (tabernaemontani, acutus)</i> Eastern Herbaceous Vegetation (CEGL006275)
Outwash Plain Pondshore	S	S1	<i>Lysimachia terrestris</i> - <i>Dulichium arundinaceum</i> - <i>Rhexia virginica</i> Herbaceous Vegetation (CEGL006035); <i>Eleocharis (obtusata, flavescens)</i> - <i>Erocaulon aquaticum</i> Herbaceous Vegetation (CEGL006261); <i>Rhexia virginica</i> - <i>Panicum verrucosum</i> Herbaceous Vegetation (CEGL006264)
River Mud Shore	S	S3	River Mud Flats Sparse Vegetation (CEGL002314)

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Rich Fen		Palustrine Emergent Saturated Wetland (PEMB)
Shallow Emergent Marsh		Palustrine Persistent Emergent Wetland (PEM1)
Sedge Meadow		Palustrine Persistent Emergent Wetland (PEM1)
Cattail Marsh		Palustrine Narrow-leaved Persistent Emergent Wetland, Permanently Flooded (PEM5H)
Deep Rush Marsh		Palustrine Broad-leaved Nonpersistent Emergent Wetland, Permanently Flooded (PEM4H)
Deep Rush Marsh		Palustrine Narrow-leaved Nonpersistent Emergent Wetland, Permanently Flooded (PEM3H)
Deep Rush Marsh		Palustrine Narrow-leaved Persistent Emergent Wetland, Permanently Flooded (PEM5H)
Outwash Plain Pondshore		Lacustrine Littoral Mud Flat, Intermittently Exposed (L2FL3G)
River Mud Shore Community		Riverine Upper and Lower Perennial Flat, Mud, Seasonally Flooded (R2and3FL3C)

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River Sand or Gravel Shore	S	S3	<i>Carex torta</i> - <i>Apocynum canabinum</i> Sparse Vegetation (Provisional) (CEGL006536)
River Cobble Shore	S	S2	<i>Prunus pumila</i> var. <i>depressa</i> / <i>Deschampsia caespitosa</i> Herbaceous Vegetation (CEGL006437); <i>Carex torta</i> - <i>Apocynum canabinum</i> Sparse Vegetation (CEGL006536)
Calcareous Riverside Seep	S	S1	<i>Triantha glutinosa</i> - <i>Carex garberi</i> Herbaceous Vegetation (CEGL006142)
Rivershore Grassland	S	S3	<i>Andropogon gerardii</i> - <i>Sorghastrum nutans</i> Herbaceous Vegetation (CEGL006518) (LNE); <i>Calamagrostis canadensis</i> - <i>Doellingeria umbellata</i> - <i>Spartina pectinata</i> Herbaceous Vegetation (CEGL006427) (NAP)
Lakeshore Grassland	S	S2	<i>Spartina pectinata</i> North Atlantic Coast Herbaceous Vegetation (CEGL006095)
Alluvial Shrub Swamp	L	S4	<i>Alnus incana</i> - <i>Cornus sericea</i> / <i>Clematis virginiana</i> Shrubland (CEGL006062); <i>Salix nigra</i> / <i>Carex torta</i> Temporarily Flooded Shrubland (CEGL006065)
Alder Swamp	L	S5	<i>Alnus incana</i> Swamp Shrubland (CEGL002381) (NAP); <i>Alnus incana</i> ssp. <i>rugosa</i> - <i>Nemopanthus mucronatus</i> / <i>Sphagnum</i> spp. Shrubland (CEGL006158) (NAP, peaty); <i>Vaccinium corymbosum</i> / <i>Sphagnum</i> spp. Shrubland (CEGL006190) (LNE)
Sweet Gale Shoreline Swamp	S	S3	<i>Myrica gale</i> - <i>Spiraea alba</i> - <i>Chamaedaphne calyculata</i> Shrubland (CEGL006512)
Buttonbush Swamp	S	S2	<i>Cephalanthus occidentalis</i> - <i>Decodon verticillatus</i> Shrubland (CEGL006069) (LNE); <i>Cephalanthus occidentalis</i> / <i>Carex</i> spp. Northern Shrubland (CEGL002190) (NAP)
Variant: Buttonbush Basin Swamp			

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Riverside Sand/Gravel Community		Riverine Upper and Lower Perennial Beach/Bar, Sand, Seasonally Flooded (R2and3BB2C)
River Cobble Shore Community		Riverine Upper and Lower Perennial Beach/Bar, Cobble/Gravel, Seasonally Flooded (R2and3BB1C)
Calcareous Riverside Seep Community		Riverine Lower or Upper Perennial Rocky Shore, Bedrock, Seasonally Flooded (R2or3RS1)
Rivershore Grassland		Riverine Lower Perennial Emergent Wetland, Seasonally Flooded (R2EMC)
Lakeshore Grassland		Lacustrine Littoral Nonpersistent Emergent Wetland, Seasonally Flooded (L2EM2C)
Alluvial Shrub Swamp/Woodland		Palustrine Broad-leaved Deciduous Scrub/Shrub and Forested Wetland, Seasonally Flooded (PSS/FO1C)
Shrub Swamp		Palustrine Broad-leaved Deciduous Scrub/Shrub Wetland (PSS1)
Shrub Swamp		Palustrine Broad-leaved Deciduous Scrub/Shrub Wetland, Seasonally Flooded (PSS1C)
Buttonbush Swamp (Kettle Basin Shrub Swamp)		Palustrine Broad-leaved Deciduous Scrub-Shrub Wetland, Seasonally Flooded (PSS1C)
Kettlebasin Shrub Swamp		Palustrine Broad-leaved Deciduous Scrub-Shrub Wetland, Seasonally Flooded (PSS1C)