

# Synonymy of Vermont Natural Community Types with International Vegetation Classification Associations

## Nongame and Natural Heritage Program

### Vermont Fish and Wildlife Department

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Natural Community Type, Wetland, Woodland, Wildland, Thompson and Sorenson 2005	Patch Size	State Rank	NatureServe. 2007. International Ecological Classification Standard: Terrestrial Ecological Classifications. NatureServe Central Databases. Arlington, VA. U.S.A.
<b>Spruce-Fir-Northern Hardwood Forest Formation</b>			
Subalpine Krummholz	S-L	S1	<i>Picea mariana</i> - <i>Abies balsamea</i> / <i>Sibbaldiopsis tridentata</i> Shrubland (CEGL006038) (highest elevation); <i>Picea mariana</i> / <i>Kalmia angustifolia</i> Dwarf-shrubland (CEGL006031) (subalpine)
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			
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	L	S2	<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 (CEGL006267)
Variant: Montane Yellow Birch-Sugar Maple-Red Spruce Forest	L	S3	
Red Spruce-Northern Hardwood Forest	M	S4	<i>Picea rubens</i> - <i>Betula alleghaniensis</i> / <i>Dryopteris campyloptera</i> Forest (CEGL006267)
Red Spruce-Heath Rocky Ridge Forest	S-L	S3	<i>Picea rubens</i> / <i>Vaccinium angustifolium</i> / <i>Sibbaldiopsis tridentata</i> Woodland (CEGL006053)
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)
<b>Northern Hardwood Forest Formation</b>			
Northern Hardwood Forest	M	S5	<i>Acer saccharum</i> - <i>Betula alleghaniensis</i> - <i>Fagus grandifolia</i> / <i>Viburnum lantanoides</i> Forest (CEGL006252) (dominant type); <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	L	S5	
Variant: Sugar Maple-White Ash-Jack-in-the-pulpit Northern Hardwood Forest	S-L	S4	<i>Acer saccharum</i> - ( <i>Fraxinus americana</i> ) / <i>Arisaema triphyllum</i> Forest (CEGL006211)
Variant: Yellow Birch-Northern Hardwood Forest	L	S5	
Variant: White Pine-Northern Hardwood Forest	L	S4	<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	S	S3	
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)
Variant: Hemlock-Red Spruce Forest	S	S4	<i>Pinus strobus</i> - <i>Tsuga canadensis</i> - <i>Picea rubens</i> Forest (CEGL006324)
Variant: Temperate Hemlock Forest	S-L	S4	<i>Pinus strobus</i> - <i>Tsuga canadensis</i> Lower New England / Northern Piedmont Forest (CEGL006328)

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	L	S4	
Variant: Yellow Birch-Hemlock Forest	L	S4	
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)
<b>Oak-Pine-Northern Hardwood Forest Formation</b>			
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); <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		S3	
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	S	S3	<i>Acer saccharum</i> - <i>Quercus muehlenbergii</i> / <i>Carex platyphylla</i> Forest (CEGL006162)
Mesic 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)
Sand-Over-Clay Forest	L	S2	
White Pine-Red Oak-Black Oak Forest	L	S3	<i>Pinus strobus</i> - <i>Quercus (rubra, velutina)</i> - <i>Fagus grandifolia</i> Forest (CEGL006293)
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	S	S3	<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)
<b>Upland Shores</b>			
Acidic Riverside Outcrop	S	S3	<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)
Calcareous Riverside Outcrop	S	S2	<i>Campanula rotundifolia</i> - <i>Packera paupercula</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)
<b>Outcrops and Upland Meadows</b>			
Alpine Meadow	S	S1	<i>Vaccinium uliginosum</i> - <i>Rhododendron lapponicum</i> / <i>Juncus trifidus</i> Dwarf-shrubland (CEGL006298) (dominant type); <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)
Temperate Acidic Outcrop	S	S4	( <i>Pinus strobus</i> , <i>Quercus rubra</i> ) / <i>Danthonia spicata</i> Acid Bedrock Wooded Herbaceous Vegetation (CEGL005101)
Temperate Calcareous Outcrop	S	S3	<i>Thuja occidentalis</i> / <i>Solidago ptarmicoides</i> Woodland (CEGL006093) (includes openings)
<b>Cliffs and Talus</b>			
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</i> - <i>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)</i> / Lichen spp. Nonvascular Vegetation (CEGL006534)
Variant: Shale Talus		S2	<i>Penstemon hirsutus</i> Sparse Vegetation (Provisional) (CEGL006535)
<b>Floodplain Forests</b>			
Silver Maple-Ostrich Fern Riverine Floodplain Forest	L	S3	<i>Acer saccharinum</i> - ( <i>Populus deltoides</i> ) / <i>Matteuccia struthiopteris</i> - <i>Laportea canadensis</i> Forest (CEGL006147)
Northern Conifer Floodplain Forest	S	S2	<i>Acer rubrum</i> - <i>Abies balsamea</i> / <i>Viburnum nudum</i> var. <i>cassinoides</i> Floodplain Forest (CEGL006501); <i>Populus balsamifera</i> - <i>Fraxinus nigra</i> / <i>Matteuccia struthiopteris</i> Forest (CEGL006432)
Silver Maple-Sensitive Fern Riverine Floodplain Forest	L	S3	<i>Acer saccharinum</i> / <i>Onoclea sensibilis</i> - <i>Boehmeria cylindrica</i> Forest (CEGL006176)
Sugar Maple-Ostrich Fern Riverine Floodplain Forest	S	S2	<i>Acer saccharum</i> - <i>Fraxinus</i> spp. - <i>Tilia americana</i> / <i>Matteuccia struthiopteris</i> - <i>Ageratina altissima</i> Forest (CEGL006114); <i>Acer saccharum</i> / <i>Ostrya virginiana</i> / <i>Brachyletrum erectum</i> Floodplain Forest (CEGL006504)
Lakeside Floodplain Forest	S	S3	<i>Acer saccharinum</i> / <i>Onoclea sensibilis</i> - <i>Boehmeria cylindrica</i> Forest (CEGL006176)
<b>Hardwood Swamps</b>			
Red Maple-Black Ash Seepage Swamp	S-L	S4	<i>Acer rubrum</i> - <i>Fraxinus nigra</i> - ( <i>Tsuga canadensis</i> ) / <i>Tiarella cordifolia</i> Forest (CEGL006502) (dominant seepage type); <i>Acer rubrum</i> / <i>Carex stricta</i> - <i>Onoclea sensibilis</i> Woodland (CEGL006119) (more spring flooding)
Red Maple-Sphagnum Acidic Basin Swamp	S	S3	<i>Acer rubrum</i> / <i>Nemopanthus mucronatus</i> - <i>Vaccinium corymbosum</i> Forest (CEGL006220)

Red or Silver Maple-Green Ash Swamp	L	S3	<i>Acer (rubrum, saccharinum) - Fraxinus</i> spp. - <i>Ulmus americana</i> Forest (CEGL005038) (STL); <i>Acer rubrum - Fraxinus (pennsylvanica, americana) / Linder a bezoin / Symplocarpus foetidus</i> Seasonally Flooded Forest (CEGL006406) (LNE)
Calcareous Red Maple-Tamarack Swamp	S	S2	<i>Fraxinus nigra - Acer rubrum - (Larix laricina) / Rhamnus alnifolia</i> Saturated Forest (CEGL006009)
Red Maple-Black Gum Swamp	S	S2	<i>Acer rubrum - Nyssa sylvatica - Betula alleghaniensis / Sphagnum</i> spp. Forest (CEGL006014)
Red Maple-Northern White Cedar Swamp	L	S3	<i>Thuja occidentalis - Acer rubrum / Cornus sericea</i> Forest (CEGL006199)
Wet Clayplain Forest	S	S2	
Wet Sand-Over-Clay Forest	S	S2	
Red Maple-White Pine-Huckleberry Swamp	S	S1	
<b>Softwood Swamps</b>			
Northern White Cedar Swamp	S	S3	<i>Thuja occidentalis / Sphagnum (girgensohnii, warnstorffii)</i> Forest (CEGL006007)
Variant: Northern White Cedar Sloping Seepage Forest	S	S3	<i>Thuja occidentalis - (Picea rubens) / Tiarella cordifolia</i> Forest (CEGL006175)
Variant: Boreal Acidic Northern White Cedar Swamp	S	S3	<i>Thuja occidentalis - Abies balsamea / Ledum groenlandicum / Carex trisperma</i> Woodland (CEGL006507)
Variant: Hemlock-Northern White Cedar Swamp	S	S3	
Spruce-Fir-Tamarack Swamp	L	S3	<i>Picea rubens - Abies balsamea / Gaultheria hispidula / Osmunda cinnamomea / Sphagnum</i> spp. Forest (CEGL006312)
Red Spruce-Cinnamon Fern Swamp	S	S3	<i>Picea rubens - Acer rubrum / Nemopanthus mucronatus</i> Forest (CEGL006198)
Black Spruce Swamp	S	S2	<i>Picea mariana - (Larix laricina) / Ledum groenlandicum / Sphagnum</i> spp. Forest (CEGL005271)
Hemlock-Sphagnum Acidic Basin Swamp	S	S2	<i>Tsuga canadensis - Betula alleghaniensis / Ilex verticillata / Sphagnum</i> spp. Forest (CEGL006226)
Hemlock-Balsam Fir-Black Ash Seepage Swamp	S	S3	<i>Betula alleghaniensis - Acer rubrum - (Tsuga canadensis, Abies balsamea) / Osmunda cinnamomea</i> Forest (CEGL006380)
<b>Seeps and Vernal Pools</b>			
Seep	S	S4	<i>Chrysosplenium americanum</i> Herbaceous Vegetation (CEGL006193)
Vernal Pool	S	S3	Eastern Woodland Vernal Pool Sparse Vegetation (CEGL006453)
<b>Open Peatlands</b>			
Dwarf Shrub Bog	S	S2	<i>Kalmia angustifolia - Chamaedaphne calyculata - (Picea mariana) / Cladina</i> spp. Dwarf-shrubland (CEGL006225) (ombrotrophic); <i>Rhododendron canadense - Chamaedaphne calyculata</i> Dwarf-shrubland (CEGL006514) (weakly minerotrophic bog - most VT bogs)
Black Spruce Woodland Bog	S	S2	<i>Picea mariana / Ledum groenlandicum / Carex trisperma / Sphagnum</i> spp. Forest (CEGL002485) (NAP); <i>Picea mariana / (Vaccinium corymbosum, Gaylussacia baccata) / Sphagnum</i> spp. Woodland (CEGL006098) (LNE)
Pitch Pine Woodland Bog	S	S1	<i>Pinus rigida / Chamaedaphne calyculata / Sphagnum</i> spp. Woodland (CEGL006194)
Alpine Peatland	S	S1	<i>Empetrum nigrum - Vaccinium uliginosum - Vaccinium oxycoccos / Rubus chamaemorus</i> Dwarf-shrubland (CEGL006140)
Poor Fen	S	S2	<i>Chamaedaphne calyculata / Eriophorum virginicum / Sphagnum rubellum</i> Dwarf-shrubland (CEGL006513) (shrubby); <i>Carex (oligosperma, exilis) - Chamaedaphne calyculata</i> Shrub Herbaceous Vegetation (CEGL006524) (sedgy); <i>Carex limosa - Rhynchospora alba / Sphagnum pulchrum - Cladopodiella</i> sp. Herbaceous Vegetation (CEGL006522) (mud-bottoms and hollows); <i>Sphagnum (cuspidatum, torreyanum) - Vaccinium macrocarpon</i> Nonvascular Vegetation (CEGL006394) (moss lawn); <i>Sphagnum rubellum - Vaccinium oxycoccos</i> Nonvascular Vegetation (CEGL006135) (moss lawn)
Intermediate Fen	S	S2	<i>Myrica gale - Chamaedaphne calyculata / Carex (lasiocarpa, utriculata) - Utricularia</i> spp. Shrub Herbaceous Vegetation (CEGL006302) (weakly minerotrophic); <i>Myrica gale - Dasiphora fruticosa ssp. floribunda / Carex lasiocarpa - Cladium mariscoides</i> Shrub Herbaceous Vegetation (CEGL006068)

Rich Fen	S	S2	<i>Carex (interior, hystericina, flava)</i> - <i>Eriophorum alpinum</i> Shrub Herbaceous Vegetation (CEGL006331) (NAP, sedgy); <i>Dasiphora fruticosa</i> ssp. <i>floribunda</i> - <i>Carex lasiocarpa</i> / <i>Campyllum stellatum</i> Shrub Herbaceous Vegetation (CEGL006525) (NAP, shrubby); <i>Cornus racemosa</i> / <i>Carex (sterilis, hystericina, flava)</i> Shrub Herbaceous Vegetation (CEGL006123) (LNE)
<b>Marshes and Sedge Meadows</b>			
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)
<b>Wet Shores</b>			
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)
River Sand or Gravel Shore	S	S3	<i>Carex torta</i> - <i>Apocynum cannabinum</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 cannabinum</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)
<b>Shrub Swamps</b>			
Alluvial Shrub Swamp	L	S3	<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	S	S2	

**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 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