

Synonymy of Vermont Natural Community Types with National Vegetation Classification Associations

Eric Sorenson and Bob Zaino

Natural Heritage Inventory

Vermont Fish and Wildlife Department

October 17, 2019

Vermont Natural Community Type	Patch Size	State Rank	National and International Vegetation Classification. NatureServe. 2019. NatureServe Explorer: An online encyclopedia of life. NatureServe, Arlington, Virginia.
Spruce-Fir-Northern Hardwood Forest Formation			
Subalpine Krummholz	S	S1	<i>Picea mariana</i> - <i>Abies balsamea</i> / <i>Sibbaldiopsis tridentata</i> Shrubland (CEGL006038); (<i>Picea mariana</i> , <i>Abies balsamea</i>) / <i>Kalmia angustifolia</i> - <i>Ledum groenlandicum</i> Dwarf-shrubland
Montane Spruce-Fir Forest	L-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)
Variant: Well-Drained Lowland Spruce-Fir Forest	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>Betula alleghaniensis</i> - <i>Picea rubens</i> / <i>Dryopteris campyloptera</i> Forest (CEGL006267)
Variant: Montane Yellow Birch-Sugar Maple-Red Spruce Forest	L	S3	
Red Spruce-Northern Hardwood Forest	M	S5	<i>Betula alleghaniensis</i> - <i>Picea rubens</i> / <i>Dryopteris campyloptera</i> Forest (CEGL006267)
Red Spruce-Heath Rocky Ridge	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)
Northern Hardwood Forest Formation			
Northern Hardwood Forest	M	S5	<i>Acer saccharum</i> - <i>Betula alleghaniensis</i> - <i>Fagus grandifolia</i> / <i>Viburnum lantanoides</i> Forest (CEGL006631); <i>Betula papyrifera</i> / <i>Acer saccharum</i> Mixed Hardwoods Forest (CEGL002464); <i>Populus (tremuloides, grandidentata)</i> - <i>Betula (populifolia, papyrifera)</i> Woodland (CEGL006303)
Variant: Beech-Red Maple-Hemlock Hardwood Forest	L	S5	
Variant: Sugar Maple-White Ash-Jack-in-the-pulpit 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>Acer spicatum</i> / <i>Caulophyllum thalictroides</i> Forest (CEGL006636)
Variant: Dry Rich Northern Hardwood Forest	S	S3	
Red Oak-Northern Hardwood Forest	L	S4	<i>Quercus rubra</i> - <i>Acer saccharum</i> - <i>Fagus grandifolia</i> / <i>Viburnum acerifolium</i> Forest (CEGL006633)
Hemlock Forest	S	S4	<i>Tsuga canadensis</i> - (<i>Betula alleghaniensis</i>) - <i>Picea rubens</i> / <i>Cornus canadensis</i> Forest (CEGL006129)
Variant: Hemlock-Red Spruce Forest	S	S4	<i>Pinus strobus</i> - <i>Tsuga canadensis</i> - <i>Picea rubens</i> Forest (CEGL006324)
Hemlock-Northern Hardwood Forest	L-M	S5	<i>Tsuga canadensis</i> - (<i>Betula alleghaniensis</i>) - <i>Picea rubens</i> / <i>Cornus canadensis</i> Forest (CEGL006129); <i>Tsuga canadensis</i> - <i>Betula alleghaniensis</i> - <i>Acer saccharum</i> / <i>Dryopteris intermedia</i> Forest (CEGL006638)

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Variant: Hemlock-White Pine-Northern Hardwood Forest	L	S5	
Variant: Hemlock-Yellow Birch Forest	L	S5	
Red Pine Forest	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)
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 (CEGL006584) (acidic)
Oak-Pine-Northern Hardwood Forest Formation			
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)
Dry Oak-Maple Limestone Forest	S	S3	<i>Acer saccharum</i> - <i>Quercus muehlenbergii</i> / <i>Carex platyphylla</i> Forest (CEGL006162)
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	
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)
Red Cedar Woodland	S	S1	<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 Chestnut Oak Woodland	S	S2	<i>Quercus prinus</i> - <i>Quercus (rubra, velutina)</i> / <i>Vaccinium (angustifolium, pallidum)</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 (alba, rubra, velutina)</i> / <i>Carya</i> spp. / <i>Viburnum acerifolium</i> Forest (CEGL006336)
Dry Red Oak-White Pine Forest	S	S3	<i>Pinus strobus</i> - <i>Quercus (rubra, velutina)</i> - <i>Fagus grandifolia</i> Forest (CEGL006293)
Variant: Dry Red Oak-White Pine Woodland	S	S3	
Dry Transition Hemlock Forest	S-L	S4	<i>Pinus strobus</i> - <i>Tsuga canadensis</i> Lower New England-Northern Piedmont Forest (CEGL006328)
Dry Hemlock-Oak Forest	L	S3	<i>Tsuga canadensis</i> - <i>Fagus grandifolia</i> - <i>Quercus rubra</i> Forest (CEGL006088)
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 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	
Dry 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)
Mesic Pine-Oak Sandplain Forest	L	S2	<i>Pinus strobus</i> - <i>Quercus (rubra, velutina)</i> - <i>Fagus grandifolia</i> Forest (CEGL006293)
Oak-Black Birch Talus Woodland	S	S3	<i>Quercus rubra</i> - <i>Betula lenta</i> / <i>Polypodium virginianum</i> Woodland (CEGL006585); <i>Quercus montana</i> / <i>Rhus</i> spp. / <i>Deschampsia flexuosa</i> Woodland (CEGL006074)

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Oak-Maple Limestone Talus Woodland	S	S3	<i>Acer saccharum</i> - <i>Fraxinus americana</i> - <i>Juglans cinerea</i> / <i>Staphylea trifolia</i> / <i>Adlumia fungosa</i> Forest (CEGL006577); <i>Thuja occidentalis</i> Carbonate Talus Woodland (CEGL005172)
Upland Shores			
Riverside Outcrop	S	S3	<i>Andropogon gerardii</i> - <i>Campanula rotundifolia</i> - <i>Solidago simplex</i> Riverscour Sparse Vegetation (CEGL006284); <i>Vaccinium</i> spp. / <i>Danthonia spicata</i> - <i>Solidago puberula</i> Riverscour Sparse Vegetation (CEGL006531) (acidic); <i>Campanula rotundifolia</i> - <i>Packera paupercula</i> - (<i>Aquilegia canadensis</i>) Riverscour Sparse Vegetation (CEGL006532) (calcareous)
Erosional Bluff	S	S2	Midwest Eroding Bluff Sparse Vegetation (CEGL002315)
Lake Shale or Cobble Beach	S	S3	Limestone Cobble - Gravel Great Lakes Shore Sparse Vegetation (CEGL005169); <i>Dasiphora fruticosa</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>) Grassland (CEGL005098); <i>Populus deltoides</i> - (<i>Juniperus virginiana</i>) Dune Woodland (CEGL005119)
Outcrops and Upland Meadows			
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)
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); <i>Vaccinium angustifolium</i> - <i>Sorbus americana</i> / <i>Sibbaldiopsis tridentata</i> Dwarf-shrubland (CEGL005094)
Temperate Calcareous Outcrop	S	S3	<i>Thuja occidentalis</i> / <i>Oligoneuron album</i> Rocky Outcrop (CEGL006093)
Cliffs and Talus			
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); Great Lakes Limestone - Dolostone Cliff Sparse Vegetation (CEGL002504); <i>Thuja occidentalis</i> Cliff Woodland (CEGL002451)
Open Talus	S	S2	<i>Polypodium (virginianum, appalachianum)</i> / Lichen Nonvascular Vegetation (CEGL006534); Central Midwest-Interior Limestone - Dolostone Talus Vegetation (CEGL002308)
Variant: Shale Talus	S	S2	<i>Penstemon hirsutus</i> Sparse Vegetation (CEGL006535)
Variant: Boreal Calcareous Talus	S	S1	

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Floodplain Forests			
Boreal 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> Floodplain Forest (CEGL006432)
Silver Maple-Ostrich Fern Floodplain Forest	L	S3	<i>Acer saccharinum</i> - (<i>Populus deltoides</i>) / <i>Matteuccia struthiopteris</i> - <i>Laportea canadensis</i> Floodplain Forest (CEGL006147)
Silver Maple-Sensitive Fern Floodplain Forest	L	S3	<i>Acer saccharinum</i> / <i>Onoclea sensibilis</i> - <i>Boehmeria cylindrica</i> Floodplain Forest (CEGL006176)
Sugar Maple Floodplain Forest	S	S2	<i>Acer saccharum</i> - <i>Fraxinus</i> spp. - <i>Tilia americana</i> / <i>Matteuccia struthiopteris</i> - <i>Ageratina altissima</i> Floodplain Forest (CEGL006114); <i>Acer saccharum</i> / <i>Ostrya virginiana</i> / <i>Brachyletrum erectum</i> Floodplain Forest (CEGL006504); <i>Acer rubrum</i> - <i>Prunus serotina</i> / <i>Cornus amomum</i> Floodplain Forest (CEGL006503)
Lakeside Floodplain Forest	S	S3	<i>Acer saccharinum</i> / <i>Onoclea sensibilis</i> - <i>Boehmeria cylindrica</i> Floodplain Forest (CEGL006176)
Hardwood Swamps			
Calcareous Red Maple-Tamarack Swamp	S	S2	<i>Acer rubrum</i> - <i>Fraxinus nigra</i> - (<i>Larix laricina</i>) / <i>Rhamnus alnifolia</i> Swamp Forest (CEGL006009)
Red Maple-Northern White Cedar Swamp	L	S3	<i>Thuja occidentalis</i> - <i>Acer rubrum</i> / <i>Cornus sericea</i> Swamp Forest (CEGL006199)
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> Swamp Forest (CEGL006502); <i>Acer rubrum</i> / <i>Carex stricta</i> - <i>Onoclea sensibilis</i> Wet Woodland (CEGL006119)
Maple-Green Ash Swamp	L	S3	<i>Acer</i> (<i>rubrum</i> , <i>saccharinum</i>) - <i>Fraxinus pennsylvanica</i> / <i>Ilex verticillata</i> / <i>Osmunda regalis</i> Floodplain Forest (CEGL006630)
Red Maple-Sphagnum Basin Swamp	S	S3	<i>Acer rubrum</i> / <i>Ilex mucronata</i> - <i>Vaccinium corymbosum</i> Swamp Forest (CEGL006220)
Red Maple-Black Gum Basin Swamp	S	S2	<i>Acer rubrum</i> - <i>Nyssa sylvatica</i> - <i>Betula alleghaniensis</i> / <i>Sphagnum</i> spp. Swamp Forest (CEGL006014)
Red Maple-White Pine-Huckleberry Swamp	S	S1	
Wet Clayplain Forest	S	S2	<i>Acer</i> (<i>rubrum</i> , <i>saccharinum</i>) - <i>Fraxinus</i> spp. - <i>Ulmus americana</i> Forest (CEGL005038)
Wet Sand-Over-Clay Forest	S	S2	
Northern Hardwood Seepage Forest	S	S3	<i>Betula alleghaniensis</i> - <i>Acer rubrum</i> - (<i>Tsuga canadensis</i> , <i>Abies balsamea</i>) / <i>Osmunda cinnamomea</i> Swamp Forest (CEGL006380)
Variant: Montane Seepage Forest	S	S3	
Variant: Hemlock Seepage Forest	S	S3	
Variant: Black Ash Seepage Woodland	S	S3	
Softwood Swamps			
Northern White Cedar Swamp	S	S3	<i>Thuja occidentalis</i> / <i>Sphagnum</i> (<i>girgensohnii</i> , <i>warnstorffii</i>) Forest (CEGL006007)
Northern White Cedar Seepage Forest	S	S3	<i>Thuja occidentalis</i> - (<i>Picea rubens</i>) / <i>Tiarella cordifolia</i> Forest (CEGL006175)
Boreal Cedar-Sphagnum Basin Swamp	S	S2	<i>Thuja occidentalis</i> - <i>Abies balsamea</i> / <i>Ledum groenlandicum</i> / <i>Carex trisperma</i> Woodland (CEGL006507)
Red Spruce-Cinnamon Fern Swamp	S	S3	<i>Picea rubens</i> - <i>Acer rubrum</i> / <i>Ilex mucronata</i> Forest (CEGL006198)
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)
Black Spruce Swamp	S	S2	<i>Picea mariana</i> - (<i>Larix laricina</i>) / <i>Ledum groenlandicum</i> / <i>Sphagnum</i> spp. Forest (CEGL005271)
Hemlock-Balsam Fir-Black Ash Seepage Swamp	S	S3	<i>Acer rubrum</i> - <i>Fraxinus nigra</i> - (<i>Tsuga canadensis</i>) / <i>Tiarella cordifolia</i> Swamp Forest (CEGL006502)

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Woodland Seeps and Vernal Pools			
Woodland Seep	S	S4	<i>Onoclea sensibilis</i> - (<i>Adiantum pedatum</i>) - <i>Impatiens capensis</i> - <i>Carex plantaginea</i> Seepage Meadow (CEGL006409); <i>Chrysosplenium americanum</i> Herbaceous Vegetation (CEGL006193)
Variant: High Elevation Seep	S	S3	<i>Prunus virginiana</i> - <i>Acer spicatum</i> - <i>Ribes triste</i> / <i>Angelica atropurpurea</i> - <i>Heracleum maximum</i> Seepage Shrubland (CEGL006583)
Vernal Pool	S	S3	Eastern Woodland Vernal Pool (CEGL006453)
Open Peatlands			
Dwarf Shrub Bog	S	S2	<i>Kalmia angustifolia</i> - <i>Chamaedaphne calyculata</i> - (<i>Picea mariana</i>) / <i>Cladina</i> spp. Acidic Peatland (CEGL006225) (ombrotrophic); <i>Rhododendron canadense</i> - <i>Chamaedaphne calyculata</i> Acidic Peatland (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. Open Bog Woodland (CEGL002485); <i>Picea mariana</i> / (<i>Vaccinium corymbosum</i> , <i>Gaylussacia baccata</i>) / <i>Sphagnum</i> spp. Swamp Woodland (CEGL006098)
Pitch Pine Woodland Bog	S	S1	<i>Pinus rigida</i> / <i>Chamaedaphne calyculata</i> / <i>Sphagnum</i> spp. Swamp 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); <i>Trichophorum cespitosum</i> - <i>Calamagrostis pickeringii</i> Alpine Snowbed (CEGL006423)
Poor Fen	S	S2	<i>Chamaedaphne calyculata</i> / <i>Eriophorum virginicum</i> / <i>Sphagnum rubellum</i> Acidic Peatland (CEGL006513) (shrubby); <i>Carex (oligosperma, exilis)</i> - <i>Chamaedaphne calyculata</i> Shrub Acidic Peatland (CEGL006524) (sedgy); <i>Carex limosa</i> - <i>Rhynchospora alba</i> / <i>Sphagnum pulchrum</i> - <i>Odontoschisma</i> sp. Fen (CEGL006522) (wet lawns); <i>Sphagnum (cuspidatum, torreyanum)</i> - <i>Vaccinium macrocarpon</i> Fen (CEGL006394) (wet moss lawn); <i>Sphagnum rubellum</i> - <i>Vaccinium oxycoccos</i> Fen (CEGL006135) (moss lawn)
Intermediate Fen	S	S2	<i>Myrica gale</i> - <i>Chamaedaphne calyculata</i> / <i>Carex (lasiocarpa, utriculata)</i> - <i>Utricularia</i> spp. Medium Shrub Fen (CEGL006302); <i>Myrica gale</i> - <i>Dasiphora fruticosa</i> / <i>Carex lasiocarpa</i> - <i>Cladium mariscoides</i> Medium Graminoid Fen (CEGL006068)
Rich Fen	S	S2	<i>Carex (interior, hystericina, flava)</i> - <i>Trichophorum alpinum</i> Fen (CEGL006331); <i>Dasiphora fruticosa</i> - <i>Carex lasiocarpa</i> / <i>Campylium stellatum</i> Fen (CEGL006525); <i>Dasiphora fruticosa</i> / <i>Carex (sterilis, hystericina, flava)</i> Fen (CEGL006326)
Marshes and Sedge Meadows			
Shallow Emergent Marsh	S	S4	<i>Calamagrostis canadensis</i> - <i>Scirpus</i> spp. - <i>Dulichium arundinaceum</i> Wet Meadow (CEGL006519); <i>Calamagrostis canadensis</i> - <i>Carex</i> spp. Laurentian & Northeast Wet Meadow (CEGL005448)
Sedge Meadow	S	S4	<i>Carex stricta</i> - <i>Carex vesicaria</i> Wet Meadow (CEGL006412)
Cattail Marsh	S-L	S4	<i>Typha (angustifolia, latifolia)</i> - (<i>Schoenoplectus</i> spp.) Eastern Marsh (CEGL006153); <i>Typha</i> spp. - <i>Schoenoplectus tabernaemontani</i> - Mixed Herbs Southern Great Lakes Shore Marsh (CEGL005112)
Deep Broadleaf Marsh	S	S4	<i>Pontederia cordata</i> - <i>Peltandra virginica</i> - <i>Sagittaria latifolia</i> Marsh (CEGL006191)
Wild Rice Marsh	S	S3	<i>Zizania (aquatica, palustris)</i> Marsh (CEGL002382)
Deep Bulrush Marsh	S-L	S4	<i>Schoenoplectus (tabernaemontani, acutus)</i> Eastern Marsh (CEGL006275)

Synonymy of Vermont Natural Community Types with National Vegetation Classification Associations

Eric Sorenson and Bob Zaino

Natural Heritage Inventory

Vermont Fish and Wildlife Department

October 17, 2019

Vermont Natural Community Type	Patch Size	State Rank	National and International Vegetation Classification. NatureServe. 2019. NatureServe Explorer: An online encyclopedia of life. NatureServe, Arlington, Virginia.
Wet Shores			
Outwash Plain Pondshore	S	S1	<i>Rhynchospora capitellata</i> - <i>Cyperus dentatus</i> - <i>Rhexia virginica</i> - <i>Xyris difformis</i> Marsh (CEGL006210); <i>Lysimachia terrestris</i> - <i>Dulichium arundinaceum</i> - <i>Rhexia virginica</i> Marsh (CEGL006035); <i>Eleocharis (obtusata, flavescens)</i> - <i>Erocaulon aquaticum</i> Marsh (CEGL006261)
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> - <i>Cyperus</i> spp. Riverbed Vegetation (CEGL006536)
River Cobble Shore	S	S2	<i>Prunus pumila</i> var. <i>depressa</i> / <i>Deschampsia caespitosa</i> Riverscour Wet Meadow (CEGL006437); <i>Carex torta</i> - <i>Apocynum cannabinum</i> - <i>Cyperus</i> spp. Riverbed Vegetation (CEGL006536)
Calcareous Riverside Seep	S	S1	<i>Triantha glutinosa</i> - <i>Carex garberi</i> Riverscour Wet Meadow (CEGL006142)
Rivershore Grassland	S	S3	<i>Prunus pumila</i> / <i>Andropogon gerardii</i> - <i>Sorghastrum nutans</i> Riverscour Wet Meadow (CEGL006518); <i>Calamagrostis canadensis</i> - <i>Doellingeria umbellata</i> - <i>Spartina pectinata</i> Riverscour Wet Meadow (CEGL006427)
Lakeshore Grassland	S	S2	<i>Spartina pectinata</i> North Atlantic Coast Marsh (CEGL006095)
Shrub Swamps			
Alluvial Shrub Swamp	L	S3	<i>Alnus incana</i> - <i>Cornus (amomum, sericea)</i> / <i>Clematis virginiana</i> Shrub Swamp (CEGL006062); <i>Salix nigra</i> / <i>Carex torta</i> - <i>Apocynum cannabinum</i> Wet Shrubland (CEGL006065)
Alder Swamp	S-L	S4	<i>Alnus incana</i> Northeast Shrub Swamp (CEGL006839)
Variant: Alder Peatland	S	S3	<i>Alnus incana</i> ssp. <i>rugosa</i> - <i>Ilex mucronata</i> / <i>Sphagnum</i> spp. Acidic Peatland (CEGL006158)
Sweet Gale Shoreline Swamp	S	S3	<i>Myrica gale</i> - <i>Spiraea alba</i> - <i>Chamaedaphne calyculata</i> Fen (CEGL006512)
Lakeside Buttonbush Swamp	S	S2	<i>Cephalanthus occidentalis</i> - <i>Decodon verticillatus</i> Shrub Swamp (CEGL006069)
Basin Shrub Swamp	S	S2	<i>Cephalanthus occidentalis</i> - <i>Decodon verticillatus</i> Shrub Swamp (CEGL006069); <i>Vaccinium corymbosum</i> / <i>Sphagnum</i> spp. Acid Peatland (CEGL006190)
Variant: Buttonbush Basin Swamp	S	S2	<i>Cephalanthus occidentalis</i> - <i>Decodon verticillatus</i> Shrub Swamp (CEGL006069)
Variant: Highbush Blueberry-Winterberry Holly Basin Swamp	S	S2	<i>Vaccinium corymbosum</i> / <i>Sphagnum</i> spp. Acid Peatland (CEGL006190)