

<b>TABLE 1 - CRAB MEADOW WATERSHED SOILS, DRAINAGE CHARACTERISTICS, AND ASSOCIATED VEGETATION</b>					
<b>Map Symbol</b>	<b>Soil Name</b>	<b>Profile Description</b>	<b>Native &amp; Adapted Vegetation</b>	<b>Depth to Seasonal High Water Table (feet)</b>	<b>Permeability (In. /hr.)*</b>
Bc	Beaches	Sandy, gravelly, or cobbly areas between water at mean sea level and dunes or escarpments. Slope nearly level in most cases.	Beachgrass, Sea rocket, Seaside goldenrod	NR**	NR**
Bd	Berryland Mucky Sand	Wet soil along margins of tidal marshes, ponds, creeks, and streams. Areas of this soil generally are small and round or long and narrow.	Red maple, Blackgum/Tupelo, Pin Oak, Sweetgum, Tuliptree, Shadbush, Highbush blueberry, Sweet Pepperbush, Swamp Azalea, Pussy Willow, Winterberry; Alders, various ferns & Sphagnum moss is common.	0-½'	>6.3
CpE	Carver & Plymouth Sands	Soils are almost exclusively on moraines except for a few steep areas on side slopes along some of the more deeply cut drainage channels on outwash plains.	Various Hickories & Oaks, Pitch pine, Eastern Redcedar, American Holly, American Beech, Mountain Laurel, Sumacs, Northern Bayberry, Pinxterbloom, Bearberry.	>4'	>6.3
CuB	Cut & Fill Land, Gently Sloping 1 to 8% slopes	Level to gently sloping areas that have been cut and filled for nonfarm uses. Dominantly loamy fine sand or coarser textured material throughout	Cottonwood, Winged Sumac, Gray Birch; however, invasives typically predominate such as Norway Maple, Black Locust, Tree-of-heaven, Mulberry, Russian/Autumn Olives, Barberry, Common Reed, Asiatic Bittersweet, English Ivy, etc.	NR**	NR**
CuC	Cut & Fill Land Sloping 8 to 15% slopes	Moderately sloping areas that have been graded for building sites. Individual areas generally small, often following side slopes of drainage channels. Dominantly loamy fine sand or coarser textured material throughout.	Invasives typically predominate such as White Poplar, Norway Maple, Black Locust, Tree-of-heaven, Mulberry, Princess-tree, Russian/Autumn Olives, Asiatic Bittersweet, English Ivy, Mugwort, etc.	NR**	NR**
CuE	Cut & Fill Land, Steep 15 to 35% slopes	Moderately steep or steep areas that have been graded for building sites or areas where excess soil material from excavations has been stockpiles. Loamy fine sand or coarser textured material.	Invasives typically predominate such as White Poplar, Norway Maple, Black Locust, Tree-of-heaven, Mulberry, Russian/Autumn Olives, English Ivy, etc.	NR**	NR**
Du	Dune Land	Mounds or small hills of sand piled up by wind. Mainly along barrier beaches. Slope ranges from 1 to 35%. Vegetation sparse in some areas, other areas have a thick groundcover.	Northern Bayberry, Beach Plum, Virginia Rose, Beach Heather, Sand Cherry, Shadbush, Winged Sumac, Beachgrass, Sand Bluestem, Atlantic Coastal Panicgrass, Seaside goldenrod, Beach Pea, Virginia Creeper, Bearberry.	NR**	NR**

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Es	Escarpments	Bluffs that have slopes greater than 35%. Most areas are along north shore. Soil horizons have not formed in this actively eroding material. These areas are mostly devoid of vegetation.	Beachgrass, Sand Bluestem, Atlantic Coastal Panicgrass, Switchgrass, Beach Pea, Virginia Creeper, Sweetfern.	NR**	NR**
Fd	Fill Land, Dredged Material	Areas that have been filled with material from hydraulic or mechanical dredging operations; mainly used to widen or deepen boat channels in salt water.	Shadbush, Eastern Redcedar, Pitch Pine, American Holly, Northern Bayberry, American Elderberry, Beach Rose, Chokeberry, Virginia Creeper. Invasives often present including Black Locust, Russian/Autumn Olives, Common Reed, Asiatic Bittersweet, Mugwort, etc.	NR**	NR**
Fs	Fill Land, Sandy	Areas where sandy fill material has been placed on top of somewhat poorly or very poorly drained soils to provide building sites. Thin layers of loam or silt loam soil material are in the sandy fill in some places.	Bristly Locust, Sumacs, Sweetfern, Scotch Broome, Privet, Pasture Rose, Bearberry, Little Bluestem, Indiangrass, Switchgrass, Big bluestem. Invasives often present including Mulberry, Russian/Autumn Olives, Common Reed, Asiatic Bittersweet, Mugwort, etc.	NR**	NR**
Gp	Gravel Pits	Open excavations that have been made for the purpose of mining sand and gravel. Sides of the pits generally are left nearly vertical, and the bottoms are level.	Little Bluestem, Indiangrass, Switchgrass, Big bluestem, Sweetfern, Virginia Creeper.	NR**	NR**
HaA	Haven Loam 0 to 2% slope	Deep, well-drained, medium-textured soils that formed in a loamy or silty mantle over stratified coarse sand and gravel.	American Beech, Black oak, White oak, Red oak, Scarlet Oak, Tuliptree, Scrub oak, Basswood, Pitch pine, Flowering Dogwood, Black Birch, Sweetgum, White Ash, American Hornbeam, White Pine, American Holly, Viburnums, Witch hazel, Fothergilla, Highbush Blueberry, Inkberry, Mountain Laurel, Leucothoe.	>4'	<u>Depth</u> <u>Permeability</u> 0'' - 1-1/2' = 0.63-2.0 1-1/2' - 28'' = >2.0 28'' - 4-1/2' = >6.3
HaB	Haven Loam 2 to 6% slope				
HaC	Haven Loam 6 to 12% slope				
Ma	Made Land	Areas mostly covered with pieces of concrete, bricks, trash, wire, metal, and other non-soil material.	Invasives predominate such as Norway Maple, Black Locust, Tree-of-heaven, Mulberry, Russian/Autumn Olives, Barberry, Asiatic Bittersweet, English Ivy, Mugwort, etc.	NR**	NR**
Mu	Muck	Very poorly drained organic soils that formed in partly decomposed or almost completely decomposed woody or herbaceous plants.	Red Maple, Blackgum/Tupelo, American Hornbeam, Tuliptree, Buttonbush, Alders, Cranberries, various ferns, rushes & sedges.	NR**	NR**

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PIA	Plymouth Loamy Sand 0 to 3% slope	Deep, excessively drained, coarse-textured soils that formed in a mantle of loamy sand and gravel. Nearly level to steep soils are on broad, gently sloping to level outwash plains and on undulating to steep moraines.	Northern Red, White, Black, Chestnut and Scrub oak; Pitch pine, Eastern Redcedar, American Holly, American Beech, Mountain Laurel, Sumacs, Northern Bayberry, Witchhazel, Pinxterbloom.	>4'	>6.3
PIB	Plymouth Loamy Sand 3 to 8% slope				
PIC	Plymouth Loamy Sand 8 to 15% slope				
Ra	Raynham Loam	Nearly level soil in low-lying areas beside marshes and creeks. Forms a transition between poorly drained areas and better drained areas on uplands. It is on outwash plains and moraines. Mapped areas are generally small and irregular.	Red maple, Blackgum/Tupelo, Highbush blueberry, Spicebush, Maleberry, Winterberry, Viburnums.	½-1½'	0.20-2.0
RdA	Riverhead Sandy Loam 0 to 8% slopes	<ul style="list-style-type: none"> <li>RdA: Generally on outwash plains, areas are large and uniform; slopes undulating in places; a few small, irregular areas are on moraines.</li> <li>RdB: Very deep, gently sloping, well-drained soils.</li> <li>RdC: Very deep, strongly sloping, well-drained soils.</li> </ul> Both RdB and RdC have a thin cover of leaf litter and partly decomposed organic material over sandy loam & gravelly sand.	Pin oak, Tulip tree, Northern red oak, American beech, Black birch, Flowering dogwood, Shadbush, Sweetgum, Scarlet oak, White ash, American hornbeam, White fir, Eastern hemlock, White pine, American holly, Red osier dogwood, Winterberry, Viburnum, Deciduous azalea, Witch-hazel, Highbush blueberry, Chokeberry, Inkberry, Mountain laurel.	>4'	<u>Depth</u> <u>Permeability</u> 0" – 2-1/2' = 2.0-6.3 > 2-1/2' = >6.3
RdB	Riverhead Sandy Loam 3 to 3% slopes				
RdC	Riverhead Sandy Loam 8 to 15% slopes				
RhB	Riverhead and Haven Soils, Graded 0 to 8% slopes	Areas of Riverhead sandy loam, of Haven loam, or mix of both. Areas altered by grading operations for housing developments, shopping centers, industrial parks, or nonfarm uses. <ul style="list-style-type: none"> <li>RhB: large acreages often used for housing developments.</li> <li>RhC: most areas are small, along moderate slopes and within larger areas of level Riverhead and Haven soils that are being shaped.</li> </ul>	Red, Pin, Scarlet, White, Black, Scrub oaks; American Beech, Tuliptree, Basswood, Pitch pine, Flowering Dogwood, Black Birch, Sweetgum, White Ash, American Hornbeam, White Pine, American Holly, Viburnums, Witch hazel, Fothergilla, Highbush Blueberry, Inkberry, Mountain Laurel, Leucothoe.	>4'	Varies based on soil fraction From Moderate to Moderately Rapid
RhC	Riverhead and Haven Soils, Graded 8 to 15% slopes				

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SdB	Scio Silt Loam	Typically found on moraines and outwash plains; gentle side slopes of depressions or areas between well-drained Haven soils and lower lying areas of somewhat poorly drained soils.	Pin and Scarlet Oak, Tuliptree, American Beech, Black Birch, Flowering Dogwood, White Pine, American Holly, White Fir, Basswood, American Hornbeam, Shadbush, Sweetgum, Viburnums, Red-osier Dogwood, Witch hazel, Pussy Willow, Highbush Blueberry, Inkberry.	1½-2'	0.63-2.0
Su	Sudbury Sandy Loam	Nearly level soil between areas of more poorly drained soils and adjoining well-drained soils of the Riverhead series.	Pin and Scarlet Oak, Tuliptree, American Beech, Black Birch, Flowering Dogwood, White Pine, American Holly, White Fir, Basswood, American Hornbeam, Shadbush, Sweetgum, Viburnums, Red-osier Dogwood, Witch hazel, Pussy Willow, Highbush Blueberry, Inkberry.	1½-2'	>6.3
Tm	Tidal Marsh	Wet level areas typically bordering embayments and tidal creeks; not inundated by daily tide flow, but are subject to flooding during abnormally high moon or storm tides.	Groundselbush, Marsh Elder, Sea Lavendar, Sea Blites, Glassworts, Spikegrass, Saltmarsh Cordgrass, Smooth Cordgrass	NR**	NR**
Ur	Urban Land	Consists of areas that are more than 80% covered by buildings and pavements; parking lots, business districts of larger villages, and densely developed industrial parks.	Pin, Red and Willow Oak, Hackberry, Green Ash, American Hornbeam; ornamentals including Mulberry, Ginkgo, Pears, Goldenrain tree, Kousa Dogwood, Honeylocust, Zelkova, Kentucky Coffee tree, Cornelian Cherry, Amur Maple, Hawthorns, Fringe tree, etc.	NR**	NR**
Wd	Walpole Sandy Loam	Slopes are 3% or less. On the sides of tidal marshes and creeks, or in low-lying areas between poorly drained and somewhat poorly drained soils and well-drained soils on uplands. Areas are small, and in places they are long and narrow and are parallel to water course they adjoin.	White oak, Pitch pine, Red maple, Blackgum/Tupelo, Pin Oak, Tuliptree, Shadbush, Eastern Arborvitae, Shadbush, Highbush Blueberry, Sweet Pepperbush, Nannyberry, Red-Osier Dogwood, Spicebush, Pussy Willow, Inkberry, Christmas Fern.	½-1½'	2.0-6.3 >6.3
We	Wareham Loamy Sand	Along margins of tidal marshes and creeks or in low-lying positions around marshes and ponds. Slopes are 3% or less. Areas are small, long and narrow in most places. Between areas of very poorly drained marshy soils and well-drained upland soils.	Red maple, Blackgum/Tupelo, Gray Birch, Highbush blueberry; some White oak and Pitch pine.	½-1½'	2.0-6.3 >6.3

\*Permeability classes (inches/hour): Very rapid >20; rapid 6-20; moderately rapid 2-6; moderate 0.6-2; moderately slow 0.2-0.6; slow 0.06-0.2; very slow <0.06

\*\* Not rated (NR)

**Sources:**

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