

## Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Essex County, Vermont (VT009)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
3A	Charles silt loam, 0 to 2 percent slopes, frequently flooded	B/D	—	—
6A	Adams loamy fine sand, 0 to 3 percent slopes	A	—	—
6B	Adams loamy fine sand, 3 to 8 percent slopes	A	—	—
6C	Adams loamy fine sand, 8 to 15 percent slopes	A	—	—
6D	Adams loamy fine sand, 15 to 25 percent slopes	A	—	—
6E	Adams loamy fine sand, 25 to 60 percent slopes	A	—	—
8B	Nicholville silt loam, 3 to 8 percent slopes	B/D	—	—
11A	Sheepscot gravelly fine sandy loam, 0 to 3 percent slopes	A/D	—	—
11B	Sheepscot gravelly fine sandy loam, 3 to 8 percent slopes	A/D	—	—
14B	Vershire-Lombard complex, 3 to 8 percent slopes, rocky	C	—	—
14C	Vershire-Lombard complex, 8 to 15 percent slopes, rocky	C	—	—
14D	Vershire-Lombard complex, 15 to 25 percent slopes, rocky	C	—	—
20B	Buckland loam, 3 to 8 percent slopes	C/D	—	—
20C	Buckland loam, 8 to 15 percent slopes	C/D	—	—
20D	Buckland loam, 15 to 25 percent slopes	C/D	—	—
21B	Buckland loam, 0 to 8 percent slopes, very stony	D	—	—
21C	Buckland loam, 8 to 15 percent slopes, very stony	D	—	—

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Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
21D	Buckland loam, 15 to 35 percent slopes, very stony	D	—	—
25A	Kinsman sand, 0 to 3 percent slopes	A/D	—	—
30A	Ondawa-Sunday complex, 0 to 2 percent slopes, occasionally flooded	A	—	—
31A	Podunk fine sandy loam, 0 to 3 percent slopes, occasionally flooded	B/D	—	—
32A	Colton-Duxbury complex, 0 to 3 percent slopes	A	—	—
32B	Colton-Duxbury complex, 3 to 8 percent slopes	A	—	—
32C	Colton-Duxbury complex, 8 to 15 percent slopes	A	—	—
32D	Colton-Duxbury complex, 15 to 25 percent slopes	A	—	—
32E	Colton-Duxbury complex, 25 to 60 percent slopes	A	—	—
38A	Croghan loamy fine sand, 0 to 3 percent slopes	A/D	—	—
38B	Croghan loamy fine sand, 3 to 8 percent slopes	A/D	—	—
56C	Vershire-Glover complex, 8 to 15 percent slopes, very rocky	C	—	—
56D	Vershire-Glover complex, 15 to 35 percent slopes, very rocky	C	—	—
56E	Vershire-Glover complex, 35 to 60 percent slopes, very rocky	C	—	—
100	Pits, sand and Pits, gravel		—	—
104B	Urban land-Adams-Nicholville complex, 0 to 8 percent slopes		—	—

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214B	Vershire-Lombard complex, 3 to 8 percent slopes, very stony	C	—	—
214C	Vershire-Lombard complex, 8 to 15 percent slopes, very stony	C	—	—
214D	Vershire-Lombard complex, 15 to 35 percent slopes, very stony	C	—	—
SIE8	Wonsqueak, Pondicherry, and Bucksport mucks, 0 to 2 percent slopes	A/D	—	—
SIE11	Cabot silt loam, 0 to 8 percent slopes, very stony	D	—	—
SIE11N	Cabot silt loam, 3 to 8 percent slopes	D	—	—
SIE12	Cabot-Colonel complex, 8 to 15 percent slopes, very stony	D	—	—
SIE12N	Cabot-Colonel complex, 8 to 15 percent slopes	D	—	—
SIE21	Wilmington-Colonel complex, 0 to 8 percent slopes, very stony	D	—	—
SIE21N	Wilmington-Colonel complex, 3 to 8 percent slopes	D	—	—
SIE32	Colonel-Peru complex, 8 to 15 percent slopes, very stony	D	—	—
SIE32N	Colonel-Peru complex, 8 to 15 percent slopes	D	—	—
SIE33	Peru-Colonel complex, 15 to 35 percent slopes, very stony	C	—	—
SIE33N	Peru-Colonel complex, 15 to 25 percent slopes	C	—	—
SIE34	Peru fine sandy loam, 35 to 60 percent slopes, very stony	D	—	—
SIE41	Tunbridge-Peru-Wilmington complex, 0 to 8 percent slopes, very stony	D	—	—

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SIE41N	Tunbridge-Peru-Wilmington complex, 3 to 8 percent slopes, rocky	D	—	—
SIE42	Tunbridge-Colonel-Cabot complex, 8 to 15 percent slopes, very stony	D	—	—
SIE42N	Tunbridge-Colonel-Cabot complex, 8 to 15 percent slopes, rocky	D	—	—
SIE43	Tunbridge-Peru-Colonel complex, 15 to 35 percent slopes, very stony	C	—	—
SIE43N	Tunbridge-Peru-Colonel complex, 15 to 25 percent slopes, rocky	C	—	—
SIE44	Tunbridge-Peru complex, 35 to 60 percent slopes, very stony	C	—	—
SIE52	Tunbridge-Lyman complex, 8 to 15 percent slopes, very rocky	D	—	—
SIE53	Tunbridge-Lyman complex, 15 to 35 percent slopes, very rocky	C	—	—
SIE54	Tunbridge-Lyman complex, 35 to 60 percent slopes, very rocky	C	—	—
SIE55	Lyman-Knob Lock-Rock outcrop complex, 60 to 80 percent slopes, very stony	D	—	—
SIE60	Moosilauke very fine sandy loam, 0 to 8 percent slopes, very stony	A/D	—	—
SIE60N	Moosilauke very fine sandy loam, 0 to 3 percent slopes	A/D	—	—
SIE61	Sunapee-Moosilauke complex, 0 to 8 percent slopes, very stony	B/D	—	—
SIE61N	Sunapee-Moosilauke complex, 3 to 8 percent slopes	B/D	—	—

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Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SIE62	Monadnock-Sunapee-Colonel complex, 8 to 15 percent slopes, very stony	B	—	—
SIE62N	Monadnock-Sunapee-Colonel complex, 8 to 15 percent slopes	B	—	—
SIE63	Monadnock-Sunapee complex, 15 to 35 percent slopes, very stony	B	—	—
SIE63N	Monadnock-Sunapee complex, 15 to 25 percent slopes	B	—	—
SIE64	Monadnock fine sandy loam, 35 to 60 percent slopes, very stony	B	—	—
SIE92	Ricker-Londonderry complex, 8 to 15 percent slopes, very rocky	D	—	—
SIE93	Ricker-Londonderry-Saddleback complex, 15 to 35 percent slopes, very rocky	D	—	—
SIE94	Ricker-Saddleback-Rock outcrop complex, 35 to 60 percent slopes, very stony	D	—	—
W	Water		—	—
<b>Totals for Area of Interest</b>			<b>429,357.5</b>	<b>100.0%</b>

## Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

## Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* None Specified

*Tie-break Rule:* Higher