

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Orleans County, Vermont (VT019)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
2A	Peacham mucky peat, 0 to 8 percent slopes, very stony	D	—	—
3B	Vershire-Lombard complex, 3 to 8 percent slopes, rocky	C	—	—
3C	Vershire-Lombard complex, 8 to 15 percent slopes, rocky	C	—	—
3D	Vershire-Lombard complex, 15 to 25 percent slopes, rocky	C	—	—
5B	Nicholville very fine sandy loam, 3 to 8 percent slopes	B/D	—	—
5C	Nicholville very fine sandy loam, 8 to 15 percent slopes	C	—	—
5D	Nicholville very fine sandy loam, 15 to 25 percent slopes	C	—	—
6B	Vershire-Lombard complex, 3 to 8 percent slopes, very stony	C	—	—
6C	Vershire-Lombard complex, 8 to 15 percent slopes, very stony	C	—	—
6D	Vershire-Lombard complex, 15 to 35 percent slopes, very stony	C	—	—
8A	Roundabout silt loam, 0 to 3 percent slopes	C/D	—	—
12C	Tunbridge-Lyman complex, 8 to 15 percent slopes, very rocky	D	—	—
12D	Tunbridge-Lyman complex, 15 to 35 percent slopes, very rocky	C	—	—
12E	Tunbridge-Lyman complex, 35 to 60 percent slopes, very rocky	C	—	—

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Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
14A	Irasburg loamy fine sand, 0 to 3 percent slopes	B	—	—
14B	Irasburg loamy fine sand, 3 to 8 percent slopes	B	—	—
14C	Irasburg loamy fine sand, 8 to 15 percent slopes	B	—	—
14D	Irasburg loamy fine sand, 15 to 25 percent slopes	B	—	—
14E	Irasburg loamy fine sand, 25 to 50 percent slopes	B	—	—
15B	Peru fine sandy loam, 3 to 8 percent slopes	C/D	—	—
15C	Peru fine sandy loam, 8 to 15 percent slopes	C/D	—	—
15D	Peru fine sandy loam, 15 to 25 percent slopes	C/D	—	—
16B	Peru fine sandy loam, 0 to 8 percent slopes, very stony	D	—	—
16C	Peru fine sandy loam, 8 to 15 percent slopes, very stony	D	—	—
16D	Peru fine sandy loam, 15 to 35 percent slopes, very stony	D	—	—
16E	Peru fine sandy loam, 35 to 60 percent slopes, very stony	D	—	—
17B	Buckland loam, 3 to 8 percent slopes	C/D	—	—
17C	Buckland loam, 8 to 15 percent slopes	C/D	—	—
17D	Buckland loam, 15 to 25 percent slopes	C/D	—	—
18B	Buckland loam, 0 to 8 percent slopes, very stony	D	—	—
18C	Buckland loam, 8 to 15 percent slopes, very stony	D	—	—
18D	Buckland loam, 15 to 35 percent slopes, very stony	D	—	—
18E	Buckland loam, 35 to 60 percent slopes, very stony	D	—	—
21A	Nasmith loamy fine sand, 0 to 3 percent slopes	C/D	—	—

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Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
25	Pits, sand and Pits, gravel		—	—
26A	Adams loamy fine sand, 0 to 3 percent slopes	A	—	—
26B	Adams loamy fine sand, 3 to 8 percent slopes	A	—	—
26C	Adams loamy fine sand, 8 to 15 percent slopes	A	—	—
26D	Adams loamy fine sand, 15 to 25 percent slopes	A	—	—
26E	Adams loamy fine sand, 25 to 60 percent slopes	A	—	—
27A	Croghan loamy fine sand, 0 to 3 percent slopes	A/D	—	—
27B	Croghan loamy fine sand, 3 to 8 percent slopes	A/D	—	—
31A	Sheepscot gravelly fine sandy loam, 0 to 3 percent slopes	A/D	—	—
31B	Sheepscot gravelly fine sandy loam, 3 to 8 percent slopes	A/D	—	—
33A	Moosilauke very fine sandy loam, 0 to 3 percent slopes	A/D	—	—
38A	Colton-Duxbury complex, 0 to 3 percent slopes	A	—	—
38B	Colton-Duxbury complex, 3 to 8 percent slopes	A	—	—
38C	Colton-Duxbury complex, 8 to 15 percent slopes	A	—	—
38D	Colton-Duxbury complex, 15 to 25 percent slopes	A	—	—
38E	Colton-Duxbury complex, 25 to 60 percent slopes	A	—	—
47A	Cabot silt loam, 0 to 3 percent slopes	D	—	—
47B	Cabot silt loam, 3 to 8 percent slopes	D	—	—
47C	Cabot silt loam, 8 to 15 percent slopes	D	—	—

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Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
50A	Scantic silt loam, 0 to 3 percent slopes	D	—	—
54B	Salmon very fine sandy loam, 3 to 8 percent slopes	B	—	—
54C	Salmon very fine sandy loam, 8 to 15 percent slopes	B	—	—
54D	Salmon very fine sandy loam, 15 to 25 percent slopes	B	—	—
54E	Salmon very fine sandy loam, 25 to 50 percent slopes	B	—	—
58B	Lamoine silt loam, 3 to 8 percent slopes	C/D	—	—
58C	Lamoine silt loam, 8 to 15 percent slopes	C/D	—	—
58D	Lamoine silt loam, 15 to 25 percent slopes	C/D	—	—
58E	Lamoine silt loam, 25 to 50 percent slopes	C/D	—	—
59B	Cabot silt loam, 0 to 8 percent slopes, very stony	D	—	—
59C	Cabot silt loam, 8 to 15 percent slopes, very stony	D	—	—
60A	Rumney fine sandy loam, 0 to 3 percent slopes, frequently flooded	B/D	—	—
70A	Bucksport muck, 0 to 2 percent slopes, ponded	A/D	—	—
72A	Charles silt loam, 0 to 2 percent slopes, frequently flooded	B/D	—	—
76A	Podunk fine sandy loam, 0 to 3 percent slopes, occasionally flooded	B/D	—	—
79A	Medomak mucky silt loam, 0 to 2 percent slopes, frequently flooded	B/D	—	—
83A	Wonsqueak and Pondicherry mucks, 0 to 2 percent slopes	A/D	—	—
84A	Bucksport muck, 0 to 2 percent slopes	A/D	—	—

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Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
88D	Lyman-Rock outcrop complex, 15 to 35 percent slopes	D	—	—
88F	Lyman-Rock outcrop complex, 60 to 80 percent slopes	D	—	—
92B	Monadnock fine sandy loam, 3 to 8 percent slopes	B	—	—
92C	Monadnock fine sandy loam, 8 to 15 percent slopes	B	—	—
92D	Monadnock fine sandy loam, 15 to 25 percent slopes	B	—	—
93B	Monadnock fine sandy loam, 3 to 8 percent slopes, very stony	B	—	—
93C	Monadnock fine sandy loam, 8 to 15 percent slopes, very stony	B	—	—
93D	Monadnock fine sandy loam, 15 to 35 percent slopes, very stony	B	—	—
93E	Monadnock fine sandy loam, 35 to 60 percent slopes, very stony	B	—	—
94C	Vershire-Glover complex, 8 to 15 percent slopes, very rocky	C	—	—
94D	Vershire-Glover complex, 15 to 35 percent slopes, very rocky	C	—	—
94E	Vershire-Glover complex, 35 to 60 percent slopes, very rocky	C	—	—
96B	Dummerston very fine sandy loam, 3 to 8 percent slopes	B	—	—
96C	Dummerston very fine sandy loam, 8 to 15 percent slopes	B	—	—
96D	Dummerston very fine sandy loam, 15 to 25 percent slopes	B	—	—
97B	Dummerston very fine sandy loam, 3 to 8 percent slopes, very stony	B	—	—

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97C	Dummerston very fine sandy loam, 8 to 15 percent slopes, very stony	B	—	—
97D	Dummerston very fine sandy loam, 15 to 35 percent slopes, very stony	B	—	—
97E	Dummerston very fine sandy loam, 35 to 60 percent slopes, very stony	B	—	—
100B	Tunbridge-Peru complex, 3 to 8 percent slopes, rocky	C	—	—
100C	Tunbridge-Peru complex, 8 to 15 percent slopes, rocky	C	—	—
100D	Tunbridge-Peru complex, 15 to 25 percent slopes, rocky	C	—	—
101B	Tunbridge-Peru complex, 3 to 8 percent slopes, very stony	C	—	—
101C	Tunbridge-Peru complex, 8 to 15 percent slopes, very stony	C	—	—
101D	Tunbridge-Peru complex, 15 to 35 percent slopes, very stony	C	—	—
101E	Tunbridge-Peru complex, 35 to 60 percent slopes, very stony	C	—	—
104B	Urban land-Adams-Nicholville complex, 0 to 8 percent slopes		—	—
104C	Urban land-Adams-Nicholville complex, 8 to 15 percent slopes		—	—
104D	Urban land-Adams-Nicholville complex, 15 to 25 percent slopes		—	—
105	Dumps, landfill		—	—
106	Pits, quarry-Dumps, mine complex		—	—

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112D	Hogback-Rawsonville complex, 15 to 35 percent slopes, very rocky	D	—	—
112E	Hogback-Rawsonville complex, 35 to 60 percent slopes, very rocky	D	—	—
210E	Ricker-Londonderry-Stratton complex, 35 to 60 percent slopes, very rocky	D	—	—
211F	Ricker-Londonderry-Rock outcrop complex, 60 to 90 percent slopes	D	—	—
247B	Colonel-Cabot complex, 3 to 8 percent slopes	D	—	—
247C	Colonel-Cabot complex, 8 to 15 percent slopes	D	—	—
247D	Colonel-Cabot complex, 15 to 25 percent slopes	D	—	—
259B	Colonel-Cabot complex, 3 to 8 percent slopes, very stony	D	—	—
259C	Colonel-Cabot complex, 8 to 15 percent slopes, very stony	D	—	—
259D	Colonel-Cabot complex, 15 to 35 percent slopes, very stony	D	—	—
260F	Udorthents, 60 to 90 percent slopes, very rubbly		—	—
301C	Tunbridge-Peru complex, 3 to 15 percent slopes, extremely bouldery	C	—	—
301D	Tunbridge-Peru complex, 15 to 35 percent slopes, extremely bouldery	C	—	—
301E	Tunbridge-Peru complex, 35 to 60 percent slopes, extremely bouldery	C	—	—
316C	Peru fine sandy loam, 3 to 15 percent slopes, extremely bouldery	D	—	—

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316D	Peru fine sandy loam, 15 to 35 percent slopes, extremely bouldery	D	—	—
316E	Peru fine sandy loam, 35 to 60 percent slopes, extremely bouldery	D	—	—
359C	Cabot silt loam, 0 to 15 percent slopes, extremely bouldery	D	—	—
393D	Monadnock fine sandy loam, 15 to 35 percent slopes, extremely bouldery	B	—	—
393E	Monadnock fine sandy loam, 35 to 60 percent slopes, extremely bouldery	B	—	—
W	Water		—	—
Totals for Area of Interest			462,291.1	100.0%

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