

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Grand Isle County, Vermont (VT013)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AaA	Amenia silt loam, 0 to 3 percent slopes	C	—	—
AaB	Amenia silt loam, 3 to 8 percent slopes	C	—	—
AaC	Amenia silt loam, 8 to 15 percent slopes	C	—	—
AbA	Amenia very stony silt loam, 0 to 3 percent slopes	C	—	—
AbB	Amenia very stony silt loam, 3 to 8 percent slopes	C	—	—
AbC	Amenia very stony silt loam, 8 to 15 percent slopes	C	—	—
BaA	Balch peat	A/D	—	—
Bb	Beach and Dune sand		—	—
BcA	Benson rocky loam, over massive limestone, 0 to 3 percent slopes	D	—	—
BcB	Benson rocky loam, over massive limestone, 3 to 8 percent slopes	D	—	—
BcC	Benson rocky loam, over massive limestone, 8 to 15 percent slopes	D	—	—
BdA	Benson very rocky loam, over massive limestone, 0 to 3 percent slopes	D	—	—
BdB	Benson very rocky loam, over massive limestone, 3 to 8 percent slopes	D	—	—
BdC	Benson very rocky loam, over massive limestone, 8 to 15 percent slopes	D	—	—
BdD	Benson very rocky loam, over massive limestone, 15 to 25 percent slopes	D	—	—
BdE	Benson very rocky loam, over massive limestone, 25 to 35 percent slopes	D	—	—

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Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BeA	Benson rocky silt loam, over shaly limestone, 0 to 3 percent slopes	D	—	—
BeB	Benson rocky silt loam, over shaly limestone, 3 to 8 percent slopes	D	—	—
BeC	Benson rocky silt loam, over shaly limestone, 8 to 15 percent slopes	D	—	—
BeD	Benson rocky silt loam, over shaly limestone, 15 to 25 percent slopes	D	—	—
BeE	Benson rocky silt loam, over shaly limestone, 25 to 35 percent slopes	D	—	—
BeF	Benson rocky silt loam, over shaly limestone, 35 to 50 percent slopes	D	—	—
BfB	Benson very rocky silt loam, over shaly limestone, 3 to 8 percent slopes	D	—	—
BfC	Benson very rocky silt loam, over shaly limestone, 8 to 15 percent slopes	D	—	—
BfD	Benson very rocky silt loam, over shaly limestone, 15 to 25 percent slopes	D	—	—
BfE	Benson very rocky silt loam, over shaly limestone, 25 to 50 percent slopes	D	—	—
CaA	Carlisle muck	A/D	—	—
CbA	Covington silty clay loam, 0 to 3 percent slopes	D	—	—
CbB	Covington silty clay loam, 3 to 8 percent slopes	D	—	—
EaA	Elmwood fine sandy loam, 0 to 3 percent slopes	B	—	—
EaB	Elmwood fine sandy loam, 3 to 8 percent slopes	B	—	—
FaA	Fresh water marsh		—	—

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Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Gr	Pits, Sand, and Pits, gravel		—	—
KaA	Kars fine sandy loam, 0 to 3 percent slopes	A	—	—
KaB	Kars fine sandy loam, 3 to 8 percent slopes	A	—	—
KaC	Kars fine sandy loam, 8 to 15 percent slopes	A	—	—
KaD	Kars fine sandy loam, 15 to 25 percent slopes	A	—	—
KaE	Kars fine sandy loam, 25 to 50 percent slopes	A	—	—
KbA	Kendaia silt loam, 0 to 3 percent slopes	C/D	—	—
KbB	Kendaia silt loam, 3 to 8 percent slopes	C/D	—	—
KcA	Kendaia very stony silt loam, 0 to 3 percent slopes	C/D	—	—
KcB	Kendaia very stony silt loam, 3 to 8 percent slopes	C/D	—	—
LaA	Livingston silty clay loam, 0 to 3 percent slopes	C/D	—	—
LbA	Lyons silt loam, 0 to 3 percent slopes	C/D	—	—
LcA	Lyons very stony silt loam, 0 to 3 percent slopes	C/D	—	—
MaA	Melrose fine sandy loam, 0 to 3 percent slopes	C	—	—
MaB	Melrose fine sandy loam, 3 to 8 percent slopes	C	—	—
MaC	Melrose fine sandy loam, 8 to 15 percent slopes	C	—	—
MaD	Melrose fine sandy loam, 15 to 25 percent slopes	C	—	—
NaA	Nellis silt loam, 0 to 3 percent slopes	B	—	—
NaB	Nellis silt loam, 3 to 8 percent slopes	B	—	—
NaC	Nellis silt loam, 8 to 15 percent slopes	B	—	—
NaD	Nellis silt loam, 15 to 25 percent slopes	B	—	—

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NbA	Nellis very stony silt loam, 0 to 3 percent slopes	B	—	—
NbB	Nellis very stony silt loam, 3 to 8 percent slopes	B	—	—
NbC	Nellis very stony silt loam, 8 to 15 percent slopes	B	—	—
NbD	Nellis very stony silt loam, 15 to 25 percent slopes	B	—	—
Qu	Pits, quarry		—	—
SaB	St. Albans-Dutchess loams, 3 to 8 percent slopes	A	—	—
SbB	St. Albans-Dutchess rocky loams, 3 to 8 percent slopes	D	—	—
SbC	St. Albans-Dutchess rocky loams, 8 to 15 percent slopes	D	—	—
ScB	St. Albans-Dutchess very rocky loams, 3 to 8 percent slopes	D	—	—
ScD	St. Albans-Dutchess very rocky loams, 15 to 25 percent slopes	D	—	—
SdA	Swanton fine sandy loam, 0 to 3 percent slopes	C/D	—	—
SdB	Swanton fine sandy loam, 3 to 8 percent slopes	C/D	—	—
VaA	Vergennes silty clay loam, 0 to 3 percent slopes	D	—	—
VaB	Vergennes silty clay loam, 3 to 8 percent slopes	D	—	—
W	Water		—	—
WaA	Whately loam, 0 to 3 percent slopes	C/D	—	—
Totals for Area of Interest			126,977.6	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