

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Chittenden County, Vermont (VT007)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AdA	Adams and Windsor loamy sands, 0 to 5 percent slopes	A	—	—
AdB	Adams and Windsor loamy sands, 5 to 12 percent slopes	A	—	—
AdD	Adams and Windsor loamy sands, 12 to 30 percent slopes	A	—	—
AdE	Adams and Windsor loamy sands, 30 to 60 percent slopes	A	—	—
AgA	Agawam fine sandy loam, 0 to 5 percent slopes	A	—	—
AgD	Agawam fine sandy loam, 12 to 30 percent slopes	A	—	—
AgE	Agawam fine sandy loam, 30 to 60 percent slopes	A	—	—
An	Alluvial land		—	—
Au	Au Gres fine sandy loam	A/D	—	—
Be	Beaches		—	—
BIA	Belgrade and Eldridge soils, 0 to 3 percent slopes	C/D	—	—
BIB	Belgrade and Eldridge soils, 3 to 8 percent slopes	C/D	—	—
BIC	Belgrade and Eldridge soils, 8 to 15 percent slopes	C/D	—	—
BID	Belgrade and Eldridge soils, 15 to 25 percent slopes	C/D	—	—
Bo	Blown-out land		—	—
Br	Borrow pits		—	—
CaA	Cabot silt loam, 0 to 3 percent slopes	D	—	—
CaC	Cabot silt loam, 3 to 15 percent slopes	D	—	—

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CbA	Cabot silt loam, 0 to 3 percent slopes, very stony	D	—	—
CbD	Cabot silt loam, 3 to 25 percent slopes, very stony	D	—	—
CoA	Colton gravelly loamy sand, 0 to 5 percent slopes	A	—	—
CoB	Colton gravelly loamy sand, 5 to 12 percent slopes	A	—	—
CoC	Colton gravelly loamy sand, 12 to 20 percent slopes	A	—	—
CsD	Colton and Stetson soils, 20 to 30 percent slopes	A	—	—
CsE	Colton and Stetson soils, 30 to 60 percent slopes	A	—	—
Cv	Covington silty clay	D	—	—
DdA	Duane and Deerfield soils, 0 to 5 percent slopes	A/D	—	—
DdB	Duane and Deerfield soils, 5 to 12 percent slopes	A	—	—
DdC	Duane and Deerfield soils, 12 to 20 percent slopes	A	—	—
EwA	Enosburg and Whately soils, 0 to 3 percent slopes	C/D	—	—
EwB	Enosburg and Whately soils, 3 to 8 percent slopes	C/D	—	—
FaC	Farmington extremely rocky loam, 5 to 20 percent slopes	D	—	—
FaE	Farmington extremely rocky loam, 20 to 60 percent slopes	D	—	—
FsB	Farmington-Stockbridge rocky loams, 5 to 12 percent slopes	D	—	—
FsC	Farmington-Stockbridge rocky loams, 12 to 20 percent slopes	D	—	—

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FsE	Farmington-Stockbridge rocky loams, 20 to 60 percent slopes	D	—	—
Fu	Fill land	A	—	—
Fw	Fresh water marsh		—	—
GeB	Georgia stony loam, 3 to 8 percent slopes	C	—	—
GeC	Georgia stony loam, 8 to 15 percent slopes	C	—	—
GgC	Georgia extremely stony loam, 0 to 15 percent slopes	C	—	—
GgE	Georgia extremely stony loam, 15 to 60 percent slopes	C	—	—
Gpi	Pits, sand and Pits, gravel		—	—
GrA	Groton gravelly fine sandy loam, 0 to 5 percent slopes	A	—	—
GrB	Groton gravelly fine sandy loam, 5 to 12 percent slopes	A	—	—
GrC	Groton gravelly fine sandy loam, 12 to 20 percent slopes	A	—	—
GrD	Groton gravelly fine sandy loam, 20 to 30 percent slopes	A	—	—
GrE	Groton gravelly fine sandy loam, 30 to 60 percent slopes	A	—	—
Hf	Hadley very fine sandy loam	B	—	—
Hh	Hadley very fine sandy loam, frequently flooded	B	—	—
HIB	Hartland very fine sandy loam, 2 to 6 percent slopes	B	—	—
HIC	Hartland very fine sandy loam, 6 to 12 percent slopes	B	—	—
HID	Hartland very fine sandy loam, 12 to 25 percent slopes	B	—	—
HIE	Hartland very fine sandy loam, 25 to 60 percent slopes	B	—	—

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HnA	Hinesburg fine sandy loam, 0 to 3 percent slopes	A	—	—
HnB	Hinesburg fine sandy loam, 3 to 8 percent slopes	A	—	—
HnC	Hinesburg fine sandy loam, 8 to 15 percent slopes	A	—	—
HnD	Hinesburg fine sandy loam, 15 to 25 percent slopes	A	—	—
HnE	Hinesburg fine sandy loam, 25 to 60 percent slopes	A	—	—
Le	Limerick silt loam	B/D	—	—
Lf	Limerick silt loam, very wet	B/D	—	—
Lh	Livingston clay	C/D	—	—
Lk	Livingston silty clay, occasionally flooded	C/D	—	—
LmB	Lyman-Marlow rocky loams, 5 to 12 percent slopes	D	—	—
LmC	Lyman-Marlow rocky loams, 12 to 20 percent slopes	D	—	—
Lss	Limit of detailed soil survey		—	—
LyD	Lyman-Marlow very rocky loams, 5 to 30 percent slopes	D	—	—
LyE	Lyman-Marlow very rocky loams, 30 to 60 percent slopes	D	—	—
MaB	Marlow fine sandy loam, 5 to 12 percent slopes	C	—	—
MaC	Marlow fine sandy loam, 12 to 20 percent slopes	C	—	—
MaD	Marlow fine sandy loam, 20 to 30 percent slopes	C	—	—
MeC	Marlow fine sandy loam, 5 to 20 percent slopes, very stony	C	—	—
MeE	Marlow fine sandy loam, 20 to 60 percent slopes, very stony	C	—	—

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Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MnC	Massena stony silt loam, 0 to 15 percent slopes	C/D	—	—
MoC	Massena extremely stony silt loam, 0 to 15 percent slopes	C/D	—	—
Mp	Muck and Peat	B/D	—	—
MuD	Munson and Belgrade silt loams, 12 to 25 percent slopes	C/D	—	—
MyB	Munson and Raynham silt loams, 2 to 6 percent slopes	C/D	—	—
MyC	Munson and Raynham silt loams, 6 to 12 percent slopes	C/D	—	—
PaB	Palatine silt loam, 3 to 8 percent slopes	C	—	—
PaC	Palatine silt loam, 8 to 15 percent slopes	C	—	—
PaD	Palatine silt loam, 15 to 25 percent slopes	C	—	—
PaE	Palatine silt loam, 25 to 60 percent slopes	C	—	—
Pc	Peacham mucky peat, 0 to 3 percent slopes	D	—	—
PeA	Peru fine sandy loam, 0 to 5 percent slopes	C/D	—	—
PeB	Peru fine sandy loam, 5 to 12 percent slopes	C/D	—	—
PeC	Peru fine sandy loam, 12 to 20 percent slopes	C/D	—	—
PeD	Peru fine sandy loam, 20 to 30 percent slopes	C/D	—	—
PsC	Peru fine sandy loam, 0 to 20 percent slopes, very stony	D	—	—
PsE	Peru fine sandy loam, 20 to 60 percent slopes, very stony	D	—	—
Qd	Quarries		—	—
Rk	Rock land		—	—
ScA	Scantic silt loam, 0 to 2 percent slopes	C/D	—	—
ScB	Scantic silt loam, 2 to 6 percent slopes	C/D	—	—
Sd	Scarboro loam	A/D	—	—

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Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
StA	Stetson gravelly fine sandy loam, 0 to 5 percent slopes	A	—	—
StB	Stetson gravelly fine sandy loam, 5 to 12 percent slopes	A	—	—
StC	Stetson gravelly fine sandy loam, 12 to 20 percent slopes	A	—	—
SuB	Stockbridge and Nellis stony loams, 3 to 8 percent slopes	C	—	—
SuC	Stockbridge and Nellis stony loams, 8 to 15 percent slopes	C	—	—
SuD	Stockbridge and Nellis stony loams, 15 to 25 percent slopes	C	—	—
SxC	Stockbridge and Nellis extremely stony loams, 3 to 15 percent slopes	C	—	—
SxE	Stockbridge and Nellis extremely stony loams, 15 to 60 percent slopes	C	—	—
TeE	Terrace escarpments, silty and clayey	A	—	—
VeB	Vergennes clay, 2 to 6 percent slopes	D	—	—
VeC	Vergennes clay, 6 to 12 percent slopes	D	—	—
VeD	Vergennes clay, 12 to 25 percent slopes	D	—	—
VeE	Vergennes clay, 25 to 60 percent slopes	D	—	—
W	Water		—	—
Wo	Winooski very fine sandy loam	C	—	—
Totals for Area of Interest			396,197.7	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