

52B: Macomber-Dutchess complex, 3 to 8 percent slopes

The Macomber component makes up 60 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is low. This component is on hills on glaciated uplands, knolls on glaciated uplands, ridges on glaciated uplands. The parent material consists of coarse-loamy till. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches.

The Dutchess component makes up 25 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. This component is on hills on glaciated uplands, knolls on glaciated uplands, ridges on glaciated uplands. The parent material consists of coarse-loamy till. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: Prime	Land capability: 2 e	Vermont Agricultural Value Group: 3
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIc

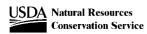
This unit is moderately suited as a site for soil-based residential wastewater disposal systems, based on a review by the Natural Resources Conservation Service of criteria set forth in the Vermont 2007 Environmental Protection Rules. The depth to bedrock in some areas is the primary concern. A significant percentage of this map unit has sufficient soil depth over bedrock to accept a range of designs. On-site investigations can help avoid areas with limited depth to bedrock. Additional fill material may be needed in some areas in order to meet the separation distance requirement between the bottom of the leachfield and bedrock.

PHYSICAL and CHEMICAL PROPERTIES							EROSION FACTORS		
Soil name	Depth	Typical	Clay	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	EROSION FACTORS		
	(ln)	texture	(Pct)				Kw	Kf	Т
Macomber	0-6	CN-SIL	10-27	4.5 - 6.0	0.6-2	2.0-6.0	.17	.28	2
	6-36	CNV-SIL	10-27	4.5 - 6.0	0.6-2	0.0-1.0	.15	.43	
	36-46	UWB			0.01-20				
Dutchess	0-4	SIL	4-10	4.5 - 6.0	0.6-2	3.0-8.0	.43	.43	5
	4-26	CN-SIL	4-10	4.5 - 6.0	0.6-2	0.0-1.0	.28	.64	
	26-60	CNV-FSL	4-10	5.1 - 6.5	0.6-2	0.0-1.0	.15	.37	

WATER FEATURES						SOIL FEATURES		
Hydrologic	Depth to seasonal	Flooding		Ponding		Hydric		
Soil name	, ,	high water table (Feet)	Frequency	Duration	Frequency	Duration	soil?	Depth to bedrock (range in inches)
Macomber	С		None		None		No	20-40
Dutchess	В		None		None		No	

LAND USE LIMITAT	AGRICULTURAL YIELD DATA			
Land use	Rating	Reason **	Crop name	Yield / acre
Dwellings with basements: Dwellings with basements: Pond reservoir areas: Pond reservoir areas:	Very limited Not limited Somewhat limited Somewhat limited	Depth to hard bedrock Seepage Seepage	Grass-legume hay Corn silage Alfalfa hay Grass-clover Grass hay Grass-clover Grass hay Corn silage Alfalfa hay	3.5 Tons 17 Tons 4 Tons 5.6 AUM 3.5 Tons 6.4 AUM 4 Tons 22 Tons 4.5 Tons 4 Tons
	Land use Dwellings with basements: Dwellings with basements: Pond reservoir areas:	Dwellings with basements: Very limited Dwellings with basements: Not limited Pond reservoir areas: Somewhat limited	Land use Rating Reason ** Dwellings with basements: Very limited Depth to hard bedrock Dwellings with basements: Not limited Pond reservoir areas: Somewhat limited Seepage	Land use Rating Reason ** Crop name Dwellings with basements: Very limited Depth to hard bedrock Dwellings with basements: Not limited Pond reservoir areas: Somewhat limited Pond reservoir areas: Somewhat limited Seepage Pond reservoir areas: Somewhat limited Seepage Pond reservoir areas: Somewhat limited Seepage Somewhat limited Seepage Grass-clover Grass hay Grass-clover Grass hay Corn silage

	Management		WOODLAND MANAGEMENT			
Soil name	concern	Rating	Reason	Vermont natural communities		
Macomber	Harvest equip operability:	Well suited		Northern Hardwood Forest,		
Dutchess	Harvest equip operability:	Well suited		Mesic Red Oak-Northern Hardwood Forest, Dry Oak-Hickory-Hophornbeam Forest,		
Macomber	Road suitability:	Well suited		Red Cedar Woodland,		
Dutchess	Road suitability:	Well suited		Mesic Maple-Ash-Hickory-Oak Forest,		



Soil Fact Sheet - Continued

Rutland County, Vermont

Macomber Erosion hazard (off-road): Slight
Dutchess Erosion hazard (off-road): Slight

Temperate Acidic Outcrop, Temperate Acidic Cliff