

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

Vermont Residential Onsite Waste Disposal Group and Subgroup: Ilc

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 (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	Kw	Kf	T
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		
Soil name	Hydrologic group	Depth to seasonal high water table (Feet)	Flooding		Ponding		Hydric soil?	Depth to bedrock (range in inches)
			Frequency	Duration	Frequency	Duration		
Macomber	C	---	None		None		No	20-40
Dutchess	B	---	None		None		No	---

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

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

Macomber	Erosion hazard (off-road): Slight	Temperate Acidic Outcrop,
Dutchess	Erosion hazard (off-road): Slight	Temperate Acidic Cliff