

175: Wappinger silt loam

The Wappinger component makes up 80 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 flood plains on river valleys. The parent material consists of coarse-loamy alluvium over sandy and gravelly alluvium. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: Prime	Land capability: 1	Vermont Agricultural Value Group: 1
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIg

This unit is marginally 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 hazard of flooding is the major limitation. This unit is on floodplains and typically includes land in the floodway and the special flood hazard area. Consult flood hazard maps prepared by the Federal Emergency Management Agency (FEMA) in local town offices for more information. Wastewater systems must be located, designed and constructed in a manner that avoids impairment to the system and contamination from the system due to flooding.

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
Wappinger	0-10	SIL	5-18	5.6 - 7.3	0.6-2	2.0-6.0	.37	.37	3
	10-30	SIL	5-18	5.6 - 7.3	0.6-2	0.5-3.0	.49	.49	
	30-60	GRV-S	1-8	5.6 - 7.3	2-20	0.0-1.0	.02	.02	

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		
Wappinger	B	3.0-5.0	Occasional	Brief (2 to 7 days)	None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Wappinger	Dwellings with basements:	Very limited	Flooding	Grass hay	3.5 Tons
Wappinger	Pond reservoir areas:	Very limited	Seepage	Corn silage	26 Tons
				Alfalfa hay	4.5 Tons
				Grass-legume hay	3.5 Tons
				Grass-clover	5.6 AUM

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Wappinger	Harvest equip operability:	Well suited		Silver Maple-Ostrich Fern Riverine Floodplain Forest, Sugar Maple-Ostrich Fern Riverine Floodplain Forest, Successional Floodplain Forest Variant
Wappinger	Road suitability:	Poorly suited	Flooding	
Wappinger	Erosion hazard (off-road):	Slight		