

30A: Ondawa-Sunday complex, 0 to 2 percent slopes, occasionally flooded

The Ondawa, flooded component makes up 45 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. The parent material consists of loamy alluvium over sandy and gravelly alluvium. Depth to a root restrictive layer is greater than 60 inches.

The Sunday, flooded component makes up 30 percent of the map unit. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. This component is on flood plains. The parent material consists of sandy alluvium. Depth to a root restrictive layer is greater than 60 inches.

<u>Important farmland classification:</u> Prime	<u>Land capability:</u> 1	<u>Vermont Agricultural Value Group:</u> 3
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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
Ondawa, flooded	0-12	FSL	1-9	4.5 - 6.8	0.6-6	1.0-5.0	.32	.32	3
	12-32	FSL	1-9	4.5 - 6.0	0.6-6	0.1-2.5	.37	.37	
	32-65	FS	0-6	4.5 - 6.0	6-100	0.0-2.0	.10	.10	
Sunday, flooded	0-19	LFS	0-5	3.5 - 6.8	6-20	0.2-5.0	.28	.28	5
	19-26	LFS	0-5	3.5 - 6.8	6-20	0.1-2.5	.37	.37	
	26-65	LFS	0-5	5.1 - 7.3	6-100	0.0-2.0	.28	.28	

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		
Ondawa, flooded	A	---	Occasional	Brief (2 to 7 days)	None		No	---
Sunday, flooded	A	---	Occasional	Brief (2 to 7 days)	None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Ondawa, flooded	Dwellings with basements:	Very limited	Flooding	Pasture	12 AUM
Sunday, flooded	Dwellings with basements:	Very limited	Flooding	Grass-legume hay	5 Tons
Ondawa, flooded	Pond reservoir areas:	Very limited	Seepage	Corn silage	26 Tons
Sunday, flooded	Pond reservoir areas:	Very limited	Seepage	Pasture	3.6 AUM
				Grass hay	2 Tons
				Corn silage	12 Tons
				Alfalfa hay	2.5 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Ondawa	Harvest equip operability:	Well suited		Silver Maple-Ostrich Fern Riverine Floodplain Forest, River Sand or Gravel Shore, Calcareous Riverside Seep, Sugar Maple-Ostrich Fern Riverine Floodplain Forest, River Cobble Shore
Sunday	Harvest equip operability:	Well suited		
Ondawa	Road suitability:	Moderately suited	Flooding	
Sunday	Road suitability:	Moderately suited	Flooding	
Ondawa	Erosion hazard (off-road):	Slight		
Sunday	Erosion hazard (off-road):	Slight		

