

**DdC: Duane and Deerfield soils, 12 to 20 percent slopes**

The Deerfield component makes up 43 percent of the map unit. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is high. This component is on deltas on river valleys, terraces on river valleys. The parent material consists of sandy glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

The Duane component makes up 43 percent of the map unit. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is high. This component is on terraces on river valleys, deltas on river valleys. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

**Important farmland classification:** NPSL

**Land capability:** 3 e

**Vermont Agricultural Value Group:** 8

**Vermont Residential Onsite Waste Disposal Group and Subgroup:** 1Ih

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 the seasonal high water table is the primary concern. Mound system construction and other site modifications are often necessary. On sloping sites, curtain drains can help lower the water table to an acceptable level. In some cases, a detailed, site-specific analysis with groundwater level monitoring and determination of induced groundwater mounding may be required to establish the suitability of this unit.

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
Deerfield	0-6	FSL	2-7	4.5 - 6.5	6-20	1.0-4.0	.24	.24	5
	6-22	LS	1-7	4.5 - 6.5	6-20	0.5-2.0	.24	.24	
	22-65	S	0-5	4.5 - 6.5	20-100	0.0-0.5	.02	.02	
Duane	0-4	FSL	1-5	3.6 - 6.0	2-6	3.0-8.0	.20	.20	5
	4-11	GR-LFS	0-5	4.5 - 6.0	6-20	0.5-2.0	.15	.20	
	11-15	GR-LFS	0-5	4.5 - 6.0	6-20	0.5-2.0	.10	.20	
	15-52	GRV-S	0-3	4.5 - 6.0	6-20	0.0-0.5	.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		
Deerfield	A	1.5-3.0	None		None		No	---
Duane	A/D	1.5-2.0	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Duane	Dwellings with basements:	Very limited	Depth to saturated zone	Alfalfa hay	3 Tons
Deerfield	Dwellings with basements:	Very limited	Depth to saturated zone	Corn silage	14 Tons
Duane	Pond reservoir areas:	Very limited	Seepage	Grass-clover	4.7 AUM
Deerfield	Pond reservoir areas:	Very limited	Seepage	Grass-legume hay	2.5 Tons
				Pasture	5.5 AUM
				Grass-legume hay	2.5 Tons
				Corn silage	12 Tons
				Alfalfa hay	3 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Duane	Harvest equip operability:	Well suited		Hemlock-Northern Hardwood Forest, Hemlock-White Pine-Northern Hardwood Forest Variant, Lowland Spruce-Fir Forest, well drained phase, Hemlock Forest
Deerfield	Harvest equip operability:	Well suited		
Duane	Road suitability:	Poorly suited	Slope	
Deerfield	Road suitability:	Poorly suited	Slope	

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Duane	Erosion hazard (off-road):	Moderate	Slope/erodibility
Deerfield	Erosion hazard (off-road):	Moderate	Slope/erodibility