

**DdA: Duane and Deerfield soils, 0 to 5 percent slopes**

The Deerfield component makes up 45 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. The parent material consists of sandy glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

The Duane component makes up 45 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. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: Statewide

Land capability: 3 w

Vermont Agricultural Value Group: 6

Vermont Residential Onsite Waste Disposal Group and Subgroup: Ilh

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	Corn silage	16 Tons
Deerfield	Dwellings with basements:	Very limited	Depth to saturated zone	Grass-clover	5.8 AUM
Duane	Pond reservoir areas:	Very limited	Seepage	Grass-legume hay	3 Tons
Deerfield	Pond reservoir areas:	Very limited	Seepage	Alfalfa hay	3.5 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:	Moderately suited	Wetness	
Deerfield	Road suitability:	Well suited		

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Duane	Erosion hazard (off-road):	Slight
Deerfield	Erosion hazard (off-road):	Slight