

BIA: Belgrade and Eldridge soils, 0 to 3 percent slopes

The Belgrade 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 moderately low. This component is on terraces on lake plains. The parent material consists of coarse-silty glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches.

The Eldridge 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 moderately low. This component is on terraces on lake plains. The parent material consists of sandy glaciolacustrine deposits over loamy glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: Prime	Land capability: 2 w	Vermont Agricultural Value Group: 1
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIc

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 depth to the seasonal high water table in association with the minimal slope is the major limitation. A detailed, site-specific analysis is generally required. On-site groundwater level monitoring and determination of induced groundwater mounding is often necessary to establish the suitability of this unit. Curtain drains may help lower the water table to an acceptable level, however, the minimal slope may prevent their use in many areas.

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
Belgrade	0-7	VFSL	4-15	4.5 - 7.3	0.6-2	1.0-5.0	.32	.32	5
	7-23	VFSL	4-15	4.5 - 7.3	0.6-2	0.5-3.0	.49	.49	
	23-60	VFSL	2-20	6.1 - 7.8	0.06-6	0.0-1.0	.55	.55	
Eldridge	0-9	LFS	1-5	5.1 - 7.3	6-20	2.0-4.0	.20	.20	5
	9-27	LFS	1-5	5.1 - 7.3	6-20	0.5-2.0	.32	.32	
	27-60	SIL	3-18	5.1 - 7.3	0.06-0.6	0.0-0.5	.55	.55	

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		
Belgrade	B/D	1.5-3.5	None		None		No	---
Eldridge	C/D	1.0-2.0	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Belgrade	Dwellings with basements:	Very limited	Depth to saturated zone	Grass-legume hay	3.5 Tons
Eldridge	Dwellings with basements:	Very limited	Depth to saturated zone	Alfalfa hay	4 Tons
Belgrade	Pond reservoir areas:	Somewhat limited	Seepage	Corn silage	16 Tons
Eldridge	Pond reservoir areas:	Very limited	Seepage	Grass-clover	5.6 AUM
				Grass hay	3 Tons
				Grass-legume hay	4 Tons
				Grass-clover	7.5 AUM
				Corn silage	24 Tons
				Alfalfa hay	4.5 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Belgrade	Harvest equip operability:	Moderately suited	30-60cm to water table + >=6mos	Northern Hardwood Forest, Rich Northern Hardwood Forest,
Eldridge	Harvest equip operability:	Moderately suited	30-60cm to water table + >=6mos	Sugar Maple-Ostrich Fern Riverine Floodplain Forest

Belgrade	Road suitability:	Moderately suited	Wetness
Eldridge	Road suitability:	Moderately suited	Wetness
Belgrade	Erosion hazard (off-road):	Slight	
Eldridge	Erosion hazard (off-road):	Slight	