

20B: Buckland loam, 3 to 8 percent slopes

The Buckland component makes up 84 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 hills on glaciated uplands. The parent material consists of loamy lodgment till derived from mica schist and/or loamy lodgment till derived from limestone and/or loamy lodgment till derived from phyllite. Depth to a root restrictive layer, densic material, is 20 to 40 inches.

Important farmland classification: Prime

Land capability: 2 w

Vermont Agricultural Value Group: 3

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 |
| Buckland | 0-8 | L | 2-20 | 5.6 - 7.3 | 0.1-14 | 2.0-8.0 | .32 | .32 | 3 |
| | 8-14 | FSL | 2-20 | 5.6 - 7.3 | 0.1-14 | 0.5-3.0 | .55 | .55 | |
| | 14-21 | SIL | 2-20 | 5.6 - 7.3 | 0.1-14 | 0.2-2.0 | .64 | .64 | |
| | 21-25 | FSL | 2-20 | 5.6 - 7.3 | 0.1-14 | 0.2-2.0 | .64 | .64 | |
| | 25-65 | L | 2-20 | 5.6 - 7.3 | 0.01-1 | 0.0-0.3 | .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 | | |
| Buckland | 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 |
| Buckland | Dwellings with basements: | Very limited | Depth to saturated zone | Grass-clover | 5.6 AUM |
| Buckland | Pond reservoir areas: | Somewhat limited | Seepage | Grass-legume hay | 3.5 Tons |
| | | | | Corn silage | 22 Tons |

| WOODLAND MANAGEMENT | | | | |
|---------------------|----------------------------|-------------------|------------------------------------|--|
| Soil name | Management concern | Rating | Reason | Vermont natural communities |
| Buckland | Harvest equip operability: | Moderately suited | 30-60cm to water table f >=6mos | Northern Hardwood Forest, Rich Northern Hardwood Forest, Sugar Maple-White Ash Northern Hardwood Forest Variant |
| Buckland | Road suitability: | Moderately suited | Wetness | |
| Buckland | Erosion hazard (off-road): | Slight | | |