

**27A: Croghan loamy fine sand, 0 to 3 percent slopes**

The Croghan component makes up 79 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 stream terraces, outwash plains. The parent material consists of sandy glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

|                                              |                      |                                     |
|----------------------------------------------|----------------------|-------------------------------------|
| Important farmland classification: Statewide | Land capability: 2 w | Vermont Agricultural Value Group: 6 |
|----------------------------------------------|----------------------|-------------------------------------|

Vermont Residential Onsite Waste Disposal Group and Subgroup: 11h

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 |
| Croghan                          | 0-8        | LFS             | 0-5        | 3.5 - 6.0          | 2-20                 | 1.0-5.0              | .24             | .24 | 5 |
|                                  | 8-30       | LFS             | 0-7        | 4.5 - 6.0          | 6-100                | 0.2-5.0              | .28             | .28 |   |
|                                  | 30-65      | S               | 0-5        | 4.5 - 6.0          | 6-100                | 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      |              |                                    |
| Croghan        | A/D              | 1.5-2.5                                   | None      |          | None      |               | No           | ---                                |

| LAND USE LIMITATIONS |                           |              |                         | AGRICULTURAL YIELD DATA |              |
|----------------------|---------------------------|--------------|-------------------------|-------------------------|--------------|
| Soil name            | Land use                  | Rating       | Reason **               | Crop name               | Yield / acre |
| Croghan              | Dwellings with basements: | Very limited | Depth to saturated zone | Pasture                 | 9 AUM        |
| Croghan              | Pond reservoir areas:     | Very limited | Seepage                 | Grass-legume hay        | 3.5 Tons     |
|                      |                           |              |                         | Corn silage             | 18 Tons      |

| WOODLAND MANAGEMENT |                            |                   |                                    |                                                                                                                                                               |
|---------------------|----------------------------|-------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Soil name           | Management concern         | Rating            | Reason                             | Vermont natural communities                                                                                                                                   |
| Croghan             | Harvest equip operability: | Moderately suited | 30-60cm to water table 1<br>>=6mos | Hemlock-Northern Hardwood Forest,<br>Hemlock-White Pine-Northern Hardwood Forest Variant,<br>Lowland Spruce-Fir Forest, well drained phase,<br>Hemlock Forest |
| Croghan             | Road suitability:          | Moderately suited | Wetness                            |                                                                                                                                                               |
| Croghan             | Erosion hazard (off-road): | Slight            |                                    |                                                                                                                                                               |