

**359C: Cabot silt loam, 0 to 15 percent slopes, extremely bouldery**

The Cabot, extremely bouldery component makes up 83 percent of the map unit. The natural drainage class is poorly drained. Water movement in the most restrictive layer is low. This component is on mountains on glaciated uplands, hills on glaciated uplands. The parent material consists of loamy lodgment till derived from mica schist and/or loamy lodgment till derived from limestone. Depth to a root restrictive layer, densic material, is 10 to 20 inches.

Important farmland classification: NPSL

Land capability: 7 s

Vermont Agricultural Value Group: 11

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIId

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 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.

| 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 |
| Cabot, extremely bouldery        | 0-1        | SPM             | ---        | 3.2 - 5.7          | 1-14                 | 35-95                | ---             | --- | 2 |
|                                  | 1-9        | SIL             | 1-15       | 5.1 - 7.3          | 0.1-14               | 3.5-20               | .49             | .49 |   |
|                                  | 9-14       | SIL             | 1-15       | 5.1 - 7.3          | 0.1-14               | 0.3-4.0              | .55             | .55 |   |
|                                  | 14-17      | CN-SIL          | 1-15       | 5.1 - 7.3          | 0.1-14               | 0.2-2.0              | .43             | .64 |   |
|                                  | 17-22      | CN-FSL          | 1-15       | 5.1 - 7.3          | 0.001-1              | 0.1-1.0              | .32             | .49 |   |
|                                  | 22-65      | CN-SIL          | 1-15       | 5.6 - 7.8          | 0.001-1              | 0.1-1.0              | .37             | .64 |   |

| 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      |              |                                    |
| Cabot, extremely bouldery | D                | 0.0-1.5                                   | None      |          | None      |               | Yes          | ---                                |

| LAND USE LIMITATIONS      |                           |              |                         | AGRICULTURAL YIELD DATA |              |
|---------------------------|---------------------------|--------------|-------------------------|-------------------------|--------------|
| Soil name                 | Land use                  | Rating       | Reason **               | Crop name               | Yield / acre |
| Cabot, extremely bouldery | Dwellings with basements: | Very limited | Depth to saturated zone |                         |              |
| Cabot, extremely bouldery | Pond reservoir areas:     | Very limited | Slope                   |                         |              |

| WOODLAND MANAGEMENT |                            |               |                                 |                                                                                                                                                               |
|---------------------|----------------------------|---------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Soil name           | Management concern         | Rating        | Reason                          | Vermont natural communities                                                                                                                                   |
| Cabot               | Harvest equip operability: | Poorly suited | <30cm to water table for >=6mos | Red Maple-Black Ash Swamp, Spruce-Fir-Tamarack Swamp, Lowland Spruce-Fir Forest, Alder Swamp, Northern White Cedar Swamp, Calcareous Red Maple-Tamarack Swamp |
| Cabot               | Road suitability:          | Poorly suited | Rock fragments                  |                                                                                                                                                               |
| Cabot               | Erosion hazard (off-road): | Slight        |                                 |                                                                                                                                                               |