

**259D: Colonel-Cabot complex, 15 to 35 percent slopes, very stony**

The Colonel, very stony component makes up 63 percent of the map unit. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. This component is on hills, mountains. The parent material consists of loamy basal till. Depth to a root restrictive layer, densic material, is 10 to 20 inches.

The Cabot, very stony component makes up 25 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 hills, mountains. The parent material consists of loamy basal till. 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:** 10

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIe

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 and slopes greater than 20 percent in some areas are the major limitations. 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. There may be less-sloping areas within the unit that are suitable for siting a septic system, or, if feasible, cut and fill site modifications may produce an acceptable area within the unit. An erosion prevention and sediment control plan is required by the State for construction on sites over 20 percent slope.

| 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 |
| Colonel, very stony              | 0-1        | HPM             | ---        | 3.5 - 5.5          | 1-14                 | 35-95                | ---             | --- | 2 |
|                                  | 1-2        | FSL             | 1-10       | 3.5 - 6.5          | 0.1-14               | 1.0-6.0              | .43             | .43 |   |
|                                  | 2-3        | FSL             | 1-10       | 3.5 - 6.5          | 0.1-14               | 4.0-18               | .37             | .37 |   |
|                                  | 3-9        | FSL             | 1-10       | 3.5 - 6.5          | 0.1-14               | 2.0-10               | .37             | .37 |   |
|                                  | 9-12       | FSL             | 1-10       | 3.5 - 6.5          | 0.1-14               | 2.0-6.0              | .37             | .37 |   |
|                                  | 12-18      | GR-FSL          | 1-10       | 3.5 - 6.5          | 0.1-14               | 0.5-2.0              | .37             | .55 |   |
|                                  | 18-65      | GR-FSL          | 1-10       | 4.5 - 7.3          | 0.001-1              | 0.0-1.0              | .37             | .49 |   |
| Cabot, very stony                | 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      |              |                                    |
| Colonel, very stony | D                | 0.5-1.5                                   | None      |          | None      |               | No           | ---                                |
| Cabot, very stony   | D                | 0.0-1.5                                   | None      |          | None      |               | Yes          | ---                                |

| LAND USE LIMITATIONS |                           |              |           | AGRICULTURAL YIELD DATA |              |
|----------------------|---------------------------|--------------|-----------|-------------------------|--------------|
| Soil name            | Land use                  | Rating       | Reason ** | Crop name               | Yield / acre |
| Colonel, very stony  | Dwellings with basements: | Very limited | Slope     | Pasture                 | 2 AUM        |
| Cabot, very stony    | Dwellings with basements: | Very limited | Slope     | Pasture                 | 2.7 AUM      |

| WOODLAND MANAGEMENT |                            |               |                                 |                                                                |
|---------------------|----------------------------|---------------|---------------------------------|----------------------------------------------------------------|
| Soil name           | Management concern         | Rating        | Reason                          | Vermont natural communities                                    |
| Colonel             | Harvest equip operability: | Poorly suited | <30cm to water table for >=6mos | Northern Hardwood Forest, Red Spruce-Northern Hardwood Forest, |

## Soil Fact Sheet - Continued

Orleans County, Vermont

|         |                            |               |                                    |                                              |
|---------|----------------------------|---------------|------------------------------------|----------------------------------------------|
| Cabot   | Harvest equip operability: | Poorly suited | <30cm to water table for<br>>=6mos | Lowland Spruce-Fir Forest,<br>Hemlock Forest |
| Colonel | Road suitability:          | Poorly suited | Slope                              |                                              |
| Cabot   | Road suitability:          | Poorly suited | Slope                              |                                              |
| Colonel | Erosion hazard (off-road): | Moderate      | Slope/erodibility                  |                                              |
| Cabot   | Erosion hazard (off-road): | Moderate      | Slope/erodibility                  |                                              |