

**41E: Buxton silt loam, 25 to 45 percent slopes**

The Buxton component makes up 85 percent of the map unit. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. This component is on dissected lake plains, lake plains. The parent material consists of clayey glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches.

|   |                      |                                      |
|---|----------------------|--------------------------------------|
| Important farmland classification: NPSL | Land capability: 7 e | Vermont Agricultural Value Group: 11 |
|---|----------------------|--------------------------------------|

Vermont Residential Onsite Waste Disposal Group and Subgroup: IVd

This unit is generally not 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. Steep slopes in association with the slowly permeable substratum is the limiting condition. Cut and fill site modifications that reduce the slope gradient are not generally effective due to the slowly permeable substratum.

| 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 |
| Buxton                           | 0-1        | SPM             | ---        | 3.2 - 5.7          | 2-6                  | 25-95                | ---             | --- | 5 |
|                                  | 1-3        | SIL             | 20-60      | 5.1 - 6.5          | 0.2-2                | 3.0-8.0              | .32             | .32 |   |
|                                  | 3-13       | SIL             | 20-60      | 5.6 - 7.3          | 0.06-0.6             | 0.5-3.0              | .43             | .43 |   |
|                                  | 13-26      | SICL            | 30-60      | 5.6 - 7.3          | 0.001-0.2            | 0.0-1.0              | .43             | .43 |   |
|                                  | 26-66      | SIC             | 30-60      | 5.6 - 7.3          | 0.001-0.2            | 0.0-0.5              | .32             | .32 |   |

| 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      |              |                                    |
| Buxton         | D                | 1.5-3.0                                   | None      |          | None      |               | No           | ---                                |

| LAND USE LIMITATIONS |                           |              |           | AGRICULTURAL YIELD DATA |              |
|----------------------|---------------------------|--------------|-----------|-------------------------|--------------|
| Soil name            | Land use                  | Rating       | Reason ** | Crop name               | Yield / acre |
| Buxton               | Dwellings with basements: | Very limited | Slope     |                         |              |
| Buxton               | Pond reservoir areas:     | Very limited | Slope     |                         |              |

| WOODLAND MANAGEMENT |                            |               |                   |  |
|---------------------|----------------------------|---------------|-------------------|--|
| Soil name           | Management concern         | Rating        | Reason            | Vermont natural communities                                      |
| Buxton              | Harvest equip operability: | Poorly suited | Slope             | Northern Hardwood Forest,<br>Red Spruce-Northern Hardwood Forest |
| Buxton              | Road suitability:          | Poorly suited | Slope             |  |
| Buxton              | Erosion hazard (off-road): | Severe        | Slope/erodibility |  |