

**MaB: Melrose fine sandy loam, 3 to 8 percent slopes**

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

|                                          |                      |                                     |
|------------------------------------------|----------------------|-------------------------------------|
| Important farmland classification: Prime | Land capability: 2 e | Vermont Agricultural Value Group: 1 |
|------------------------------------------|----------------------|-------------------------------------|

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIa

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 slow permeability in the substratum is the primary concern. Mound system construction and other site modifications may be necessary.

| 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 |
| Melrose                          | 0-7        | FSL             | 5-10       | 5.1 - 6.0          | 2-6                  | 3.0-7.0              | .20             | .20 | 4 |
|                                  | 7-23       | FSL             | 5-10       | 5.1 - 6.0          | 2-6                  | 0.5-3.0              | .37             | .37 |   |
|                                  | 23-65      | SICL            | 30-55      | 5.1 - 7.3          | 0-0.2                | 0.0-0.5              | .37             | .37 |   |

| 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      |              |                                    |
| Melrose        | C                | ---                                       | None      |          | None      |               | No           | ---                                |

| LAND USE LIMITATIONS |                           |                  |              | AGRICULTURAL YIELD DATA |              |
|----------------------|---------------------------|------------------|--------------|-------------------------|--------------|
| Soil name            | Land use                  | Rating           | Reason **    | Crop name               | Yield / acre |
| Melrose              | Dwellings with basements: | Somewhat limited | Shrink-swell | Alfalfa hay             | 4.5 Tons     |
| Melrose              | Pond reservoir areas:     | Very limited     | Seepage      | Pasture                 | 7.6 AUM      |
|                      |                           |                  |              | Grass-legume hay        | 4 Tons       |
|                      |                           |                  |              | Grass hay               | 4 Tons       |
|                      |                           |                  |              | Corn silage             | 24 Tons      |

| WOODLAND MANAGEMENT |                            |             |        |                                                                                                 |
|---------------------|----------------------------|-------------|--------|-------------------------------------------------------------------------------------------------|
| Soil name           | Management concern         | Rating      | Reason | Vermont natural communities                                                                     |
| Melrose             | Harvest equip operability: | Well suited |        | Valley Clayplain Forest,<br>Northern Hardwood Forest,<br>Mesic Red Oak-Northern Hardwood Forest |
| Melrose             | Road suitability:          | Well suited |        |                                                                                                 |
| Melrose             | Erosion hazard (off-road): | Slight      |        |                                                                                                 |