

**SbC: St. Albans-Dutchess rocky loams, 8 to 15 percent slopes**

The St. Albans component makes up 50 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is low. This component is on glaciated uplands. The parent material consists of coarse-loamy till. Depth to a root restrictive layer, bedrock, lithic, is 20 to 60 inches.

The Dutchess component makes up 30 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. This component is on glaciated uplands. The parent material consists of coarse-loamy till. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: Statewide

Land capability: 3 e

Vermont Agricultural Value Group: 5e

Vermont Residential Onsite Waste Disposal Group and Subgroup: Ilc

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 bedrock in some areas is the primary concern. A significant percentage of this map unit has sufficient soil depth over bedrock to accept a range of designs. On-site investigations can help avoid areas with limited depth to bedrock. Additional fill material may be needed in some areas in order to meet the separation distance requirement between the bottom of the leachfield and bedrock.

| 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 |
| St. Albans                       | 0-7        | L               | 3-10       | 4.5 - 6.0          | 2-6                  | 3.0-8.0              | .28             | .28 | 2 |
|                                  | 7-20       | CN-FSL          | 3-7        | 4.5 - 6.0          | 2-6                  | 0.5-2.0              | .20             | .49 |   |
|                                  | 20-30      | UWB             | ---        | ---                | 0.01-20              | ---                  | ---             | --- |   |
| Dutchess                         | 0-4        | L               | 4-10       | 4.5 - 6.0          | 0.6-2                | 3.0-8.0              | .32             | .32 | 5 |
|                                  | 4-26       | CN-L            | 4-10       | 4.5 - 6.0          | 0.6-2                | 0.0-1.0              | .24             | .49 |   |
|                                  | 26-65      | CN-FSL          | 4-10       | 5.1 - 6.5          | 0.6-2                | 0.0-1.0              | .15             | .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      |              |                                    |
| St. Albans     | D                | ---                                       | None      |          | None      |               | No           | 20-60                              |
| Dutchess       | B                | ---                                       | None      |          | None      |               | No           | ---                                |

| LAND USE LIMITATIONS |                           |                  |                       | AGRICULTURAL YIELD DATA |              |
|----------------------|---------------------------|------------------|-----------------------|-------------------------|--------------|
| Soil name            | Land use                  | Rating           | Reason **             | Crop name               | Yield / acre |
| St. Albans           | Dwellings with basements: | Very limited     | Depth to hard bedrock | Grass-legume hay        | 4 Tons       |
| Dutchess             | Dwellings with basements: | Somewhat limited | Slope                 | Grass-clover            | 6.4 AUM      |
| St. Albans           | Pond reservoir areas:     | Very limited     | Seepage               | Grass hay               | 4 Tons       |
| Dutchess             | Pond reservoir areas:     | Very limited     | Slope                 | Corn silage             | 21 Tons      |
|                      |                           |                  |                       | Alfalfa hay             | 5 Tons       |
|                      |                           |                  |                       | Grass-clover            | 6.4 AUM      |
|                      |                           |                  |                       | Grass hay               | 4 Tons       |
|                      |                           |                  |                       | Corn silage             | 20 Tons      |
|                      |                           |                  |                       | Alfalfa hay             | 4.5 Tons     |
|                      |                           |                  |                       | Grass-legume hay        | 4 Tons       |

| WOODLAND MANAGEMENT |                            |                   |        |   |
|---------------------|----------------------------|-------------------|--------|---|
| Soil name           | Management concern         | Rating            | Reason | Vermont natural communities                                     |
| St. Albans          | Harvest equip operability: | Well suited       |        | Mesic Maple-Ash-Hickory-Oak Forest,<br>Northern Hardwood Forest |
| Dutchess            | Harvest equip operability: | Well suited       |        |   |
| St. Albans          | Road suitability:          | Moderately suited | Slope  |   |
| Dutchess            | Road suitability:          | Moderately suited | Slope  |   |

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|            |                            |        |
|------------|----------------------------|--------|
| St. Albans | Erosion hazard (off-road): | Slight |
| Dutchess   | Erosion hazard (off-road): | Slight |