

StB: Stetson gravelly fine sandy loam, 5 to 12 percent slopes

The Stetson component makes up 90 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 terraces on river valleys. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

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| Important farmland classification: Statewide | Land capability: 3 e | Vermont Agricultural Value Group: 7 |
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Vermont Residential Onsite Waste Disposal Group and Subgroup: Ia

This unit is well 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 rapid permeability in the substratum is a concern. Backfilling absorption trenches with at least one foot of finer textured material or other site modifications may be necessary to slow the percolation rate enough to allow for thorough filtering of effluent.

| 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 |
| Stetson | 0-8 | GR-FSL | 4-9 | 4.5 - 6.5 | 0.6-6 | 1.0-5.0 | .15 | .24 | 3 |
| | 8-16 | GR-FSL | 2-8 | 4.5 - 6.5 | 0.6-6 | 1.0-4.0 | .15 | .28 | |
| | 16-25 | GRV-LCOS | 0-7 | 4.5 - 6.5 | 0.6-6 | 0.5-2.0 | .05 | .15 | |
| | 25-65 | GRV-COS | 0-2 | 4.5 - 7.8 | 6-20 | 0.0-0.5 | .02 | .02 | |

| 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 | | |
| Stetson | A | --- | None | | None | | No | --- |

| LAND USE LIMITATIONS | | | | AGRICULTURAL YIELD DATA | |
|----------------------|---------------------------|------------------|-----------|-------------------------|--------------|
| Soil name | Land use | Rating | Reason ** | Crop name | Yield / acre |
| Stetson | Dwellings with basements: | Somewhat limited | Slope | Grass-legume hay | 3 Tons |
| Stetson | Pond reservoir areas: | Very limited | Seepage | Grass hay | 3 Tons |
| | | | | Corn silage | 14 Tons |
| | | | | Alfalfa hay | 4 Tons |
| | | | | Pasture | 5.7 AUM |

| WOODLAND MANAGEMENT | | | | |
|---------------------|----------------------------|-------------------|--------|--|
| Soil name | Management concern | Rating | Reason | Vermont natural communities |
| Stetson | Harvest equip operability: | Well suited | | Hemlock-Northern Hardwood Forest, Hemlock-White Pine-Northern Hardwood Forest Variant, Lowland Spruce-Fir Forest, well drained phase, Hemlock Forest |
| Stetson | Road suitability: | Moderately suited | Slope | |
| Stetson | Erosion hazard (off-road): | Slight | | |