

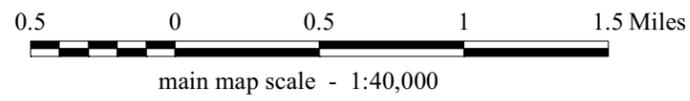
Sources:

- Data on public and conservation lands were obtained from the Vermont Conserved Lands Database, Vermont Land Trust, and WRC mapping.
- Building locations are extracted from the VGIS data layer ESITE, originally captured using Global Positioning System technology for the Vermont Enhanced 9-1-1 project. Data are current to 2018.
- Wetlands data are from the Vermont Significant Wetlands Inventory (VGIS data layer VSWI) as of 2010. These are wetlands in the original VSWI data, as well as those from National Wetlands Inventory (NWI) maps, and show approximate locations of wetlands that are generally 3 acres or larger.
- Forest areas are from the National Land Cover Database, 2011. This is a national level dataset and is used only to give a generalized depiction of forested areas in Wardsboro.

Existing Land Use

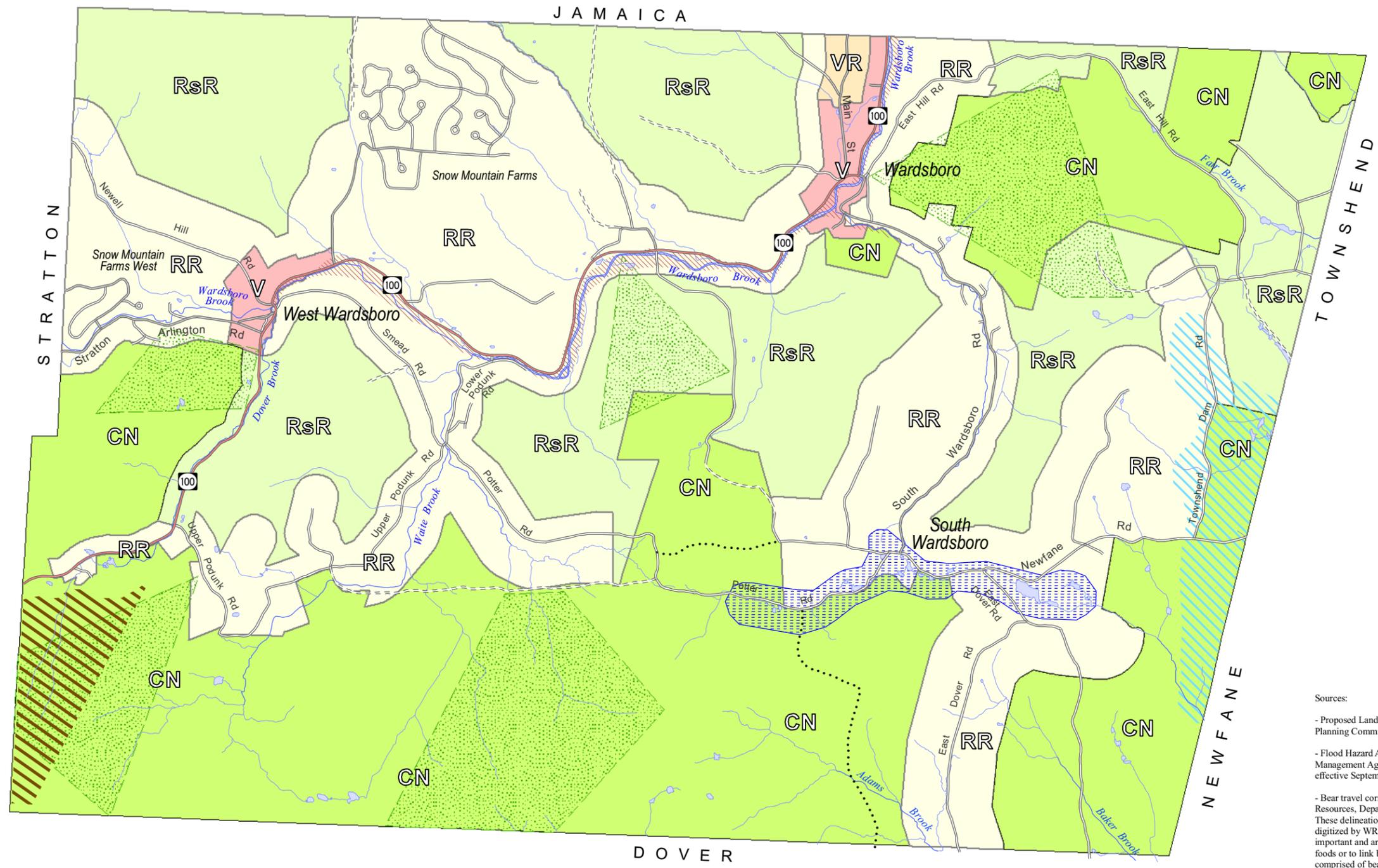
Town of Wardsboro, Vermont

December 2018



- Commercial structure
- Public/Institutional structure
- Residential structure
- Public or conservation land
- Wetlands
- Forest
- Non-forest

- State highway
- Paved town highway
- Unpaved town highway
- Class 4 town highway
- Legal trail
- Stream
- Pond or river



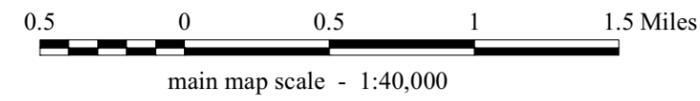
Sources:

- Proposed Land Use districts were defined by the Town of Wardsboro Planning Commission.
- Flood Hazard Area boundaries are from FEMA (Federal Emergency Management Agency) D-FIRM (Digital Flood Insurance Rate Map) data effective September 28, 2007.
- Bear travel corridors were delineated by the Vermont Agency of Natural Resources, Department of Fish and Wildlife in 1992, and updated in 2000. These delineations were done on 1:24,000 topographic maps and then digitized by WRC. Travel corridors are forested habitats that are regionally important and are used by large numbers of bears to access critical seasonal foods or to link bear ranges and sub-populations. Travel corridors are comprised of bear travel routes and may include one or more road crossing areas.
- Surface Water Resource Area, Riparian Corridor, and Scenic Viewsheds were identified by the Wardsboro Planning Commission in 2005.

Proposed Land Use

Town of Wardsboro, Vermont

June 2019



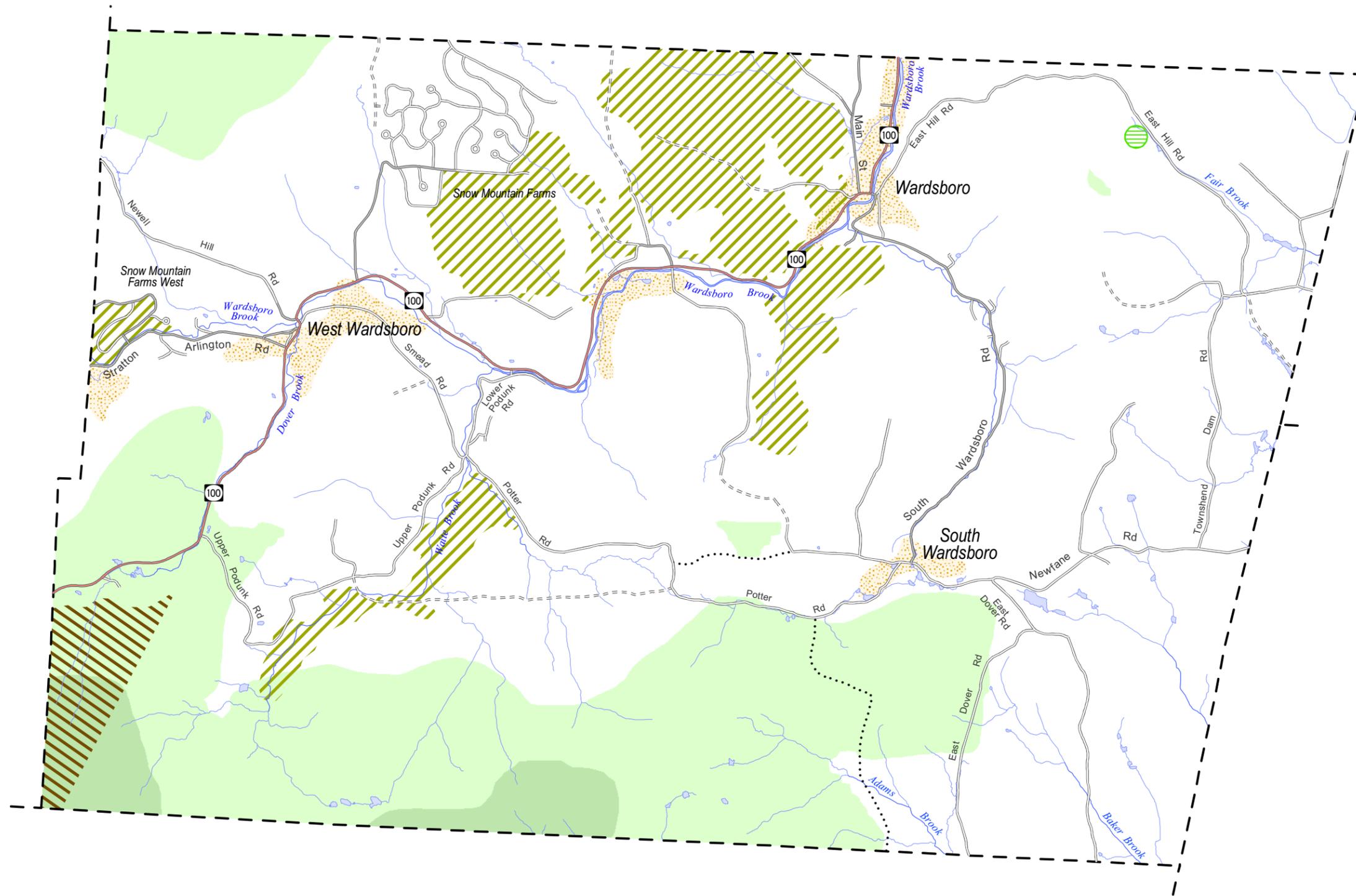
Proposed Land Use areas:

- CN Conservation
- RsR Resource Residential
- RR Rural Residential
- V Village Commercial
- VR Village Residential

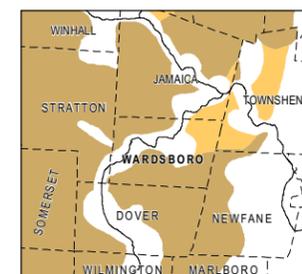
Areas of Special Concern:

- Flood Hazard Area
- Bear Corridor
- Surface Water Resource Area
- Riparian Corridor
- Scenic Viewshed

- State highway
- Paved town highway
- Unpaved town highway
- Class 4 town highway
- Legal trail
- Stream
- Pond or river



Bear habitat in the Wardsboro vicinity



- Bear production habitat
- Seasonal bear habitat

Sources:

- Bear travel corridors were delineated by the Vermont Agency of Natural Resources, Department of Fish and Wildlife in 1992, and updated in 2000. These delineations were done on 1:24,000 topographic maps and then digitized by WRC. Travel corridors are forested habitats that are regionally important and are used by large numbers of bears to access critical seasonal foods or to link bear ranges and sub-populations. Travel corridors are comprised of bear travel routes and may include one or more road crossing areas.
- Bear habitat data are from GIS data provided the University of Vermont's Spatial Analysis Laboratory. This data layer was developed from Vermont Agency of Natural Resources, Department of Fish and Wildlife habitat maps to provide a general overview of bear habitat throughout the state.
- Deer wintering areas are taken from the VGIS data layer DEERWN. They were delineated by VT ANR, Department of Fish and Wildlife, and have been updated to a limited extent through 2010.
- Uncommon plant data are from VT Dept. of Fish and Wildlife, Nongame and Natural Heritage Program's Natural Heritage Inventory Database (VGIS layer UNCOMSPOF). Data current to 2018.
- High elevation areas were digitized by Cartographic Technologies, Inc., Brattleboro, Vt.
- Sand and gravel resources are from the VGIS data layer AGGRES. This data layer was derived from "Geology for Environmental Planning" series, which in turn was derived from U.S. Geological Survey sources.

Natural Resources

Town of Wardsboro, Vermont

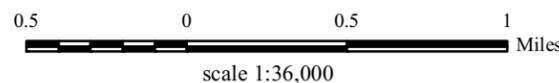
December 2018

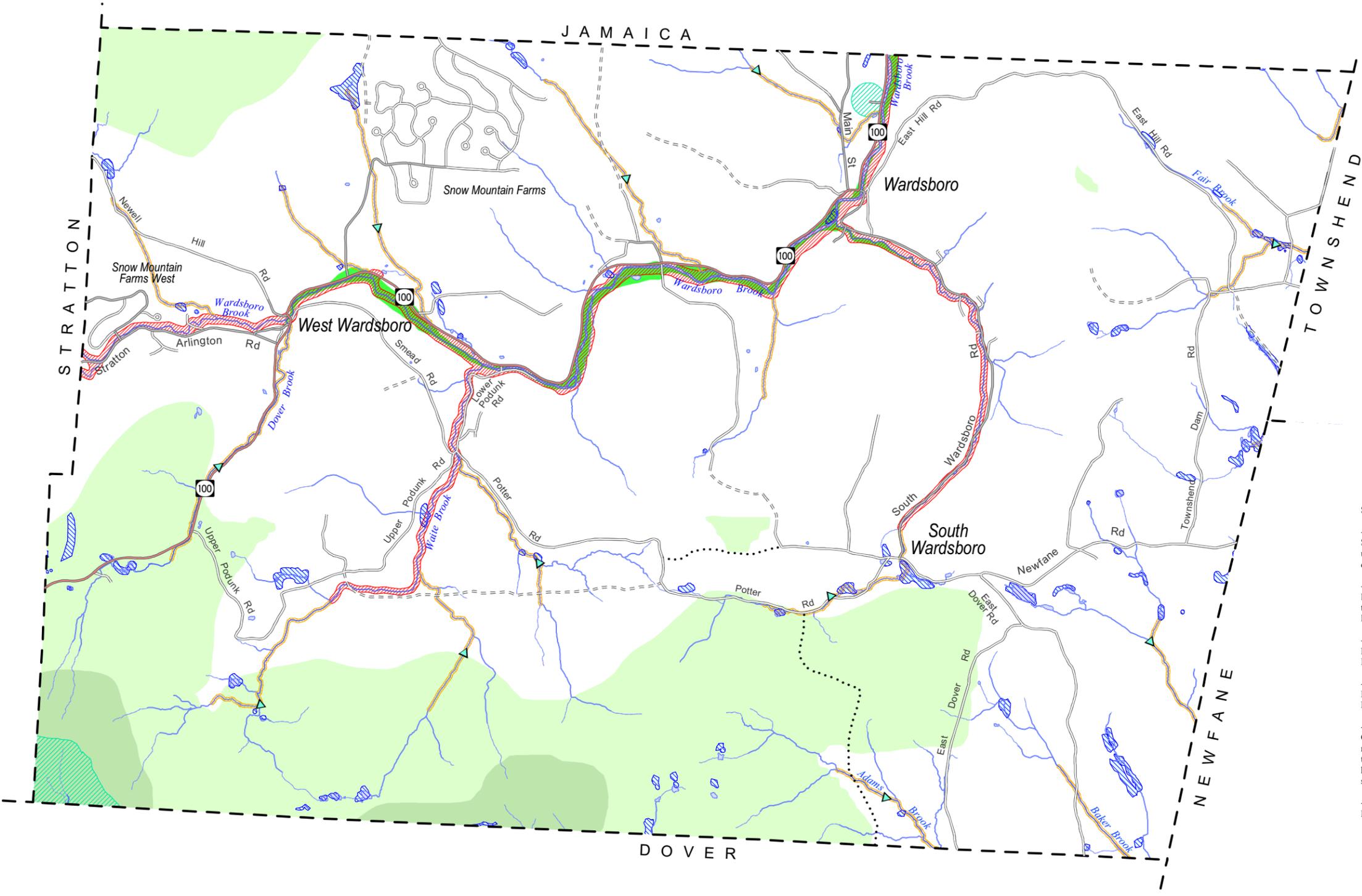


- Uncommon plant
- Bear corridor
- Deer wintering area

- Sand and gravel resources
- Areas 1800-2500 feet in elevation
- Areas above 2500 feet in elevation

- State highway
- Paved town highway
- Unpaved town highway
- Class 4 town highway
- Legal trail
- Stream
- Pond or river





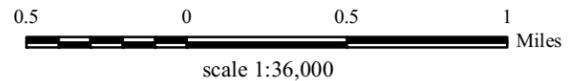
Sources:

- Surface waters are from the Vermont Hydrography Dataset (VGIS data layer SWmmmmnn). The dataset was generated at a scale of 1:5000 and was developed using digital orthophotos, topographic maps, color infra-red aerial photography and other ancillary data sources.
- Wetlands data are from the Vermont Significant Wetlands Inventory (VGIS data layer VSWI) as of 2010. These are wetlands in the original VSWI data, as well as those from National Wetlands Inventory (NWI) maps, and show approximate locations of wetlands that are generally 3 acres or larger.
- Special Flood Hazard Area boundaries (i.e. "the 100-year floodplain") are from FEMA (Federal Emergency Management Agency) D-FIRM (Digital Flood Insurance Rate Map) data effective September 28, 2007.
- Groundwater source protection areas are from the VGIS data layer EnvironSPA_GROUNDWATER, created by the Vermont Agency of Natural Resources.
- Statewide River Corridors are from VT ANR Rivers Program 2015 data. River Corridors encompass the area of land surrounding a river that provides for the meandering, floodplain, and the riparian functions necessary to restore and maintain the naturally stable or least erosive form of a river thereby minimizing erosion hazards over time. Data were developed for streams with a drainage area of 2 square miles and greater.
- High elevation areas were digitized by Cartographic Technologies, Inc., Brattleboro, VT.

Water Resources

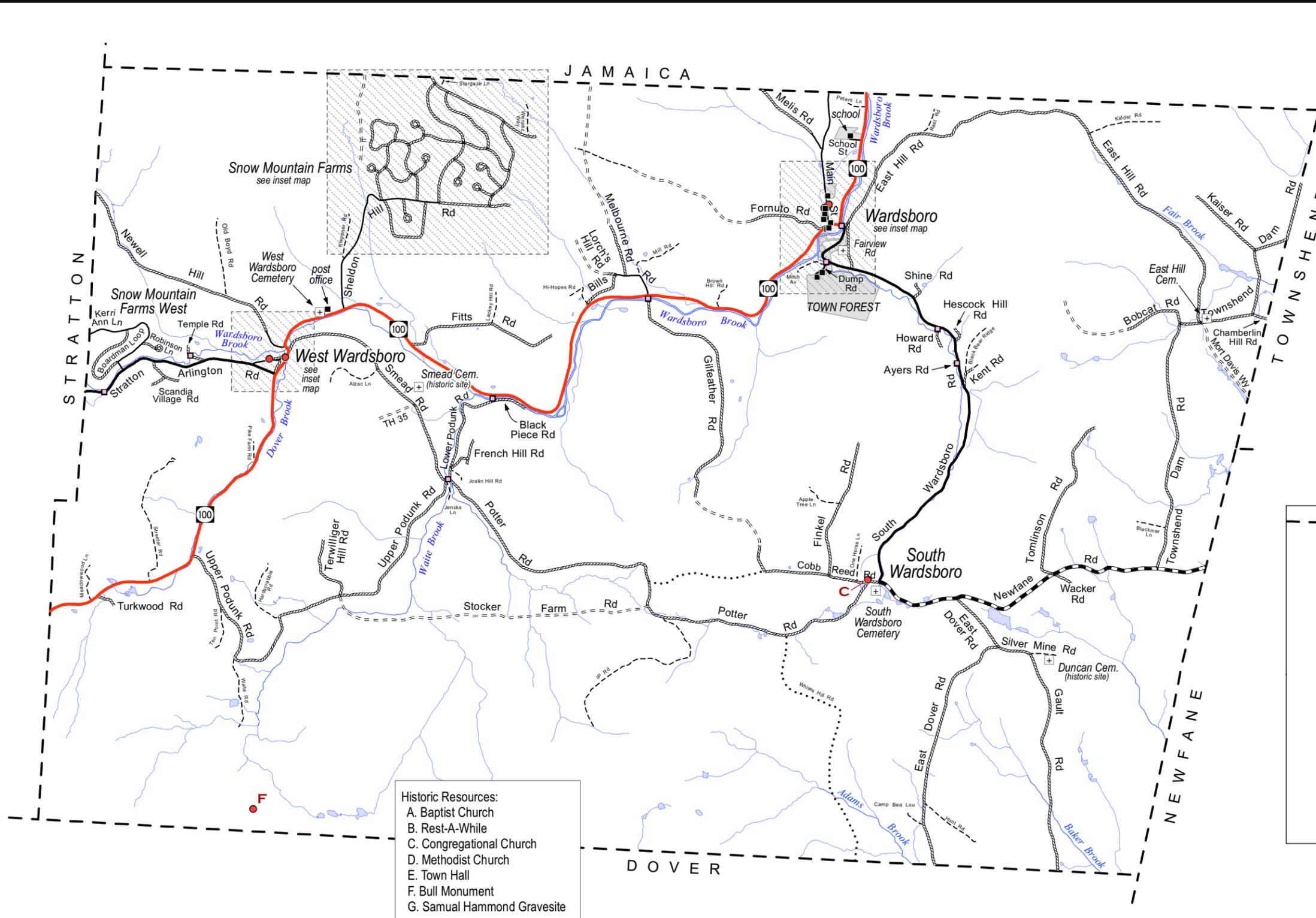
Town of Wardsboro, Vermont

December 2018



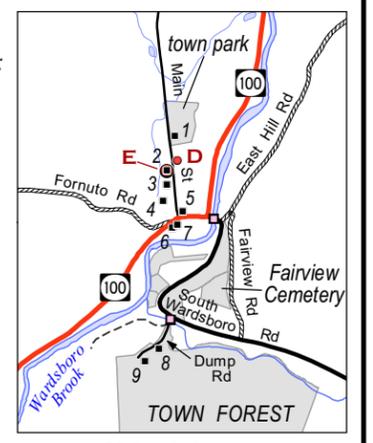
- Perennial stream
- Intermittent stream
- River or pond
- River corridor *
- Streams with a River Corridor 50' setback
- Special Flood Hazard Area
- Areas above 2500 feet in elevation
- Areas 1800-2500 feet in elevation
- Wetland
- Groundwater source protection area
- State highway
- Paved town highway
- Unpaved town highway
- Class 4 town highway
- Legal trail

* - Official source of River Corridor data is tinyurl.com/floodreadyatlas. Where river corridors are not mapped (i.e., a stream with a drainage area of between 0.5 and 2 square miles), the corridor is measured 50 feet horizontally from the top of the stream bank.

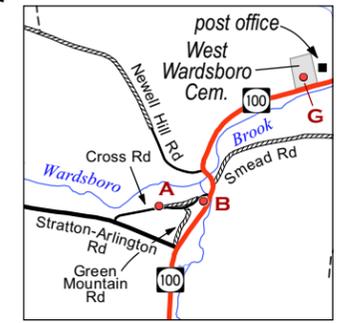


- Historic Resources:
- A. Baptist Church
 - B. Rest-A-While
 - C. Congregational Church
 - D. Methodist Church
 - E. Town Hall
 - F. Bull Monument
 - G. Samuel Hammond Gravesite

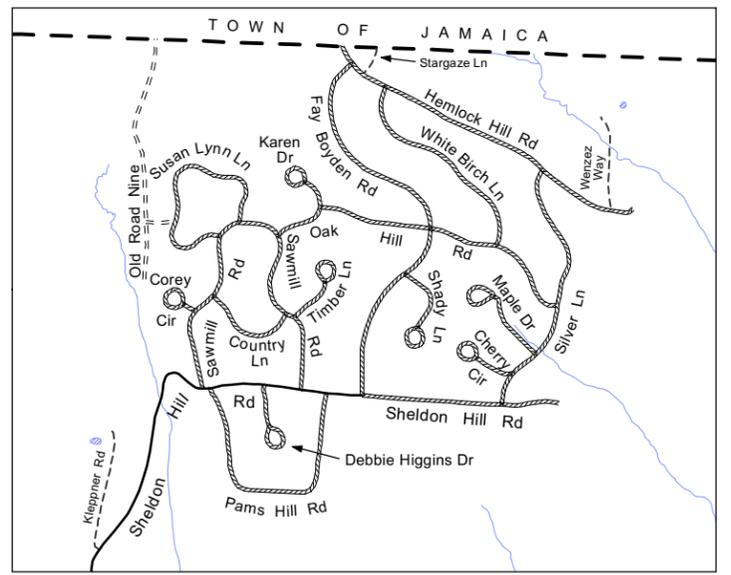
- Facilities in Wardsboro:
1. library
 2. town hall
 3. town office
 4. fire & rescue
 5. town green
 6. post office
 7. history house
 8. transfer station
 9. town garage



Wardsboro



West Wardsboro



Snow Mountain Farms

0.5 0 0.5 Miles

inset map scale - 1:24,000

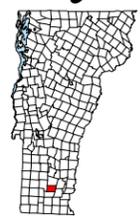
Transportation and Community Facilities

Town of Wardsboro, Vermont

December 2018

0.5 0 0.5 1 1.5 Miles

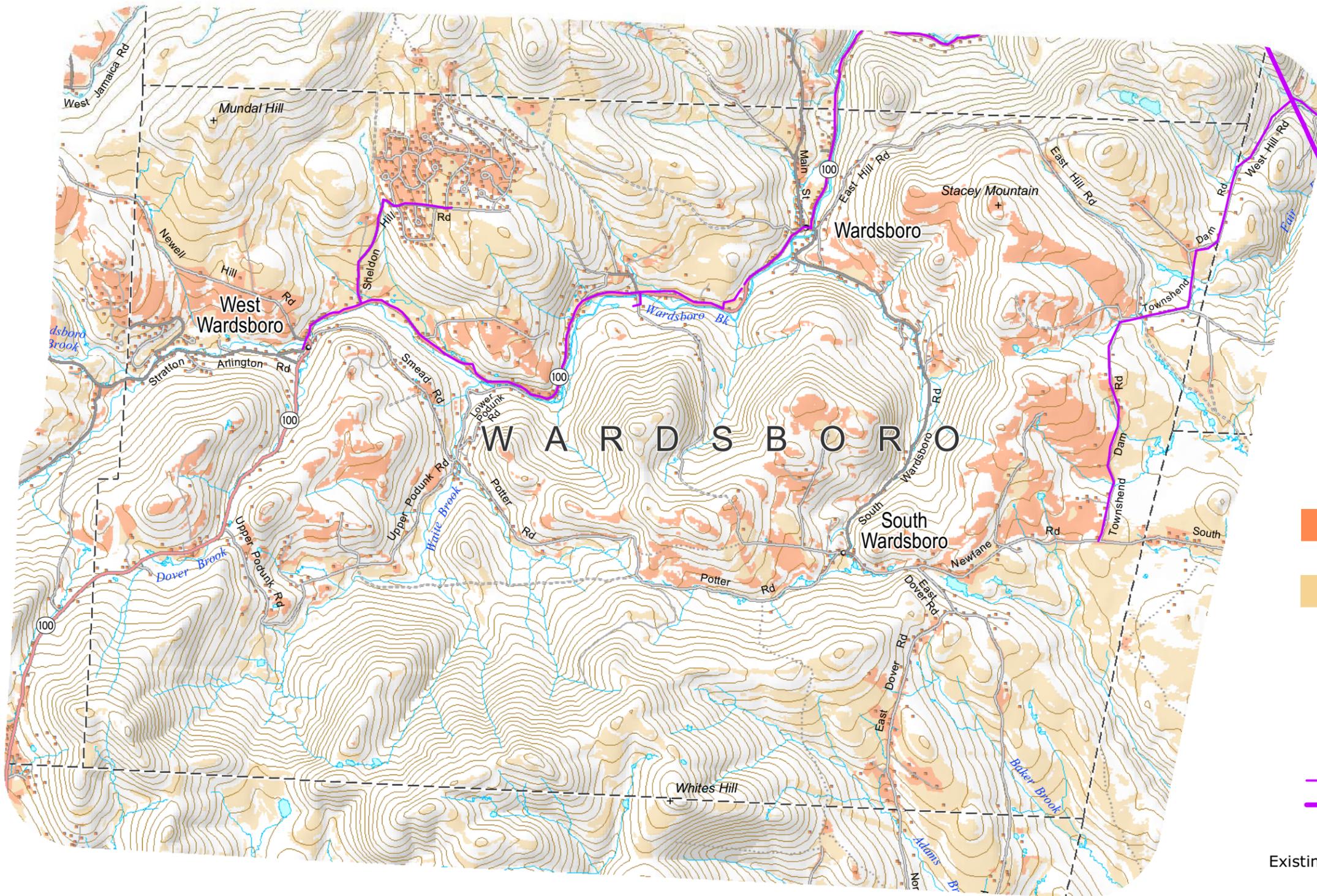
main map scale - 1:40,000



- State highway (paved)
- Class 2 town highway (paved)
- Class 2 town highway (unpaved)
- Class 3 town highway (paved)
- Class 3 town highway (unpaved)
- Class 4 town highway (unpaved)
- Legal Town Trail
- Private road/drive
- Town highway long bridge
- Historic resource
- Community facility
- Town-owned land
- Cemetery
- Stream
- Pond or river

Sources:

- Highway information is from Vt. Agency of Transportation sources (VGIS data layer RDSmnmn). Data were updated by WRC GIS staff in 2002 and 2009 using digital orthophotos and information provided by officials from the Town of Wardsboro. These data are current as of 2018.
- Community facilities were identified by the Wardsboro Planning Commission. Locations are from the VGIS data layer ESITE.
- Town lands used for town operations or open space were extracted from Wardsboro's GIS parcel data, 2017.
- Historic resources were identified by the Wardsboro Planning Commission. All sites with the exception of the Bull Monument are on the State Register of Historic Places.
- Bridge locations are from the VGIS data layer TRANSTRUC.



Town of Wardsboro Solar Energy Potential

- Prime Solar Energy Resource**
generally adequate solar resources and no identified constraints (i.e., no "known" and no "possible" constraints)
- Secondary Solar Energy Resource**
generally adequate solar resources and no "known" constraints, but at least one "possible" constraint

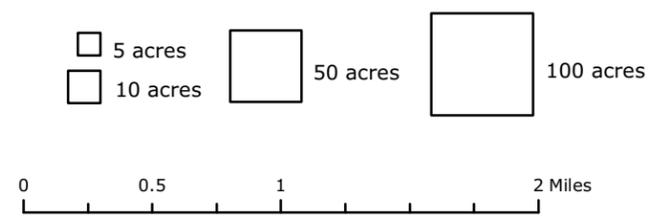
"known" and "possible" constraints are identified by the Vt. Public Service Department in their Act 174 Energy Planning Standards

Note: prime vs. secondary solar energy resource is NOT based on solar intensity.

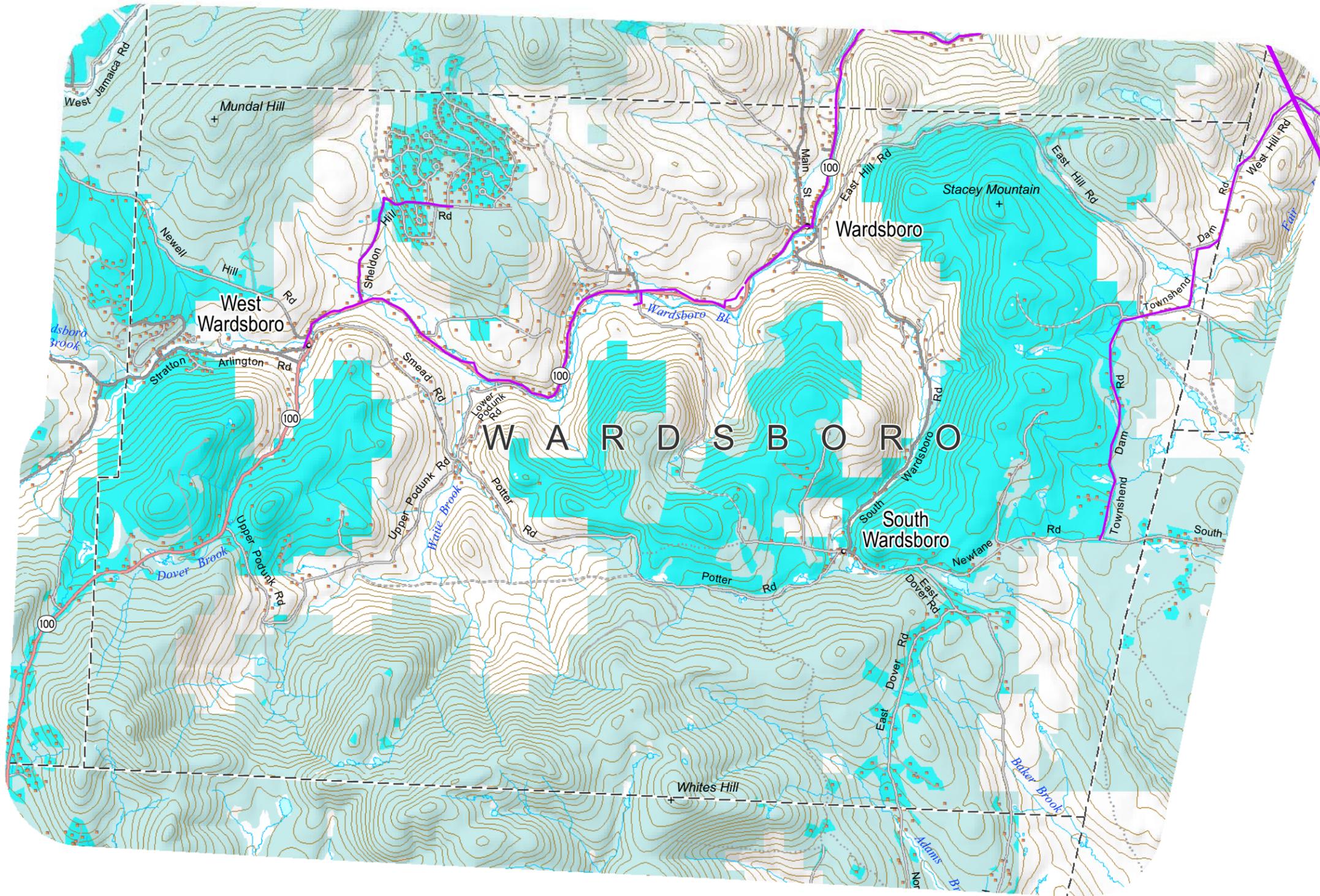
- Substations
- 3 Phase Power Lines
- Transmission Lines

- Existing solar installations:
- 1 - 19 kW (generally smaller-scale on-site)
 - 20 - 70 kW (residence, farm, school, or business)
 - 140 - 150 kW (generally larger-scale)
 - 360 - 2000 kW (commercial/utility solar farms)

Existing solar installations from the Vermont Energy Atlas, developed from Certificates of Public Good; they may correspond to the address of the certificate holder and not the actual location of the installation.



April 2017



Town of Wardsboro Wind Energy Potential

- Existing Small Wind
- Existing Commercial Wind
- Commercial Wind In Development

Existing wind from the Vermont Energy Atlas, developed from Certificates of Public Good. They may correspond to the address of the certificate holder and not the actual location of the installation.

- ⚡ Substations
- 3 Phase Power Lines
- Transmission Lines

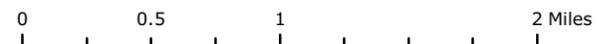
- Existing Small Wind
- existing wind from the Vermont Energy Atlas, developed from Certificates of Public Good

Prime Wind Energy Resource
generally adequate wind resources and no identified constraints (i.e., no "known" and no "possible" constraints)

Secondary Wind Energy Resource
generally adequate wind resources and no "known" constraints, but at least one "possible" constraint

"known" and "possible" constraints are identified by the Vt Public Service Department in their Act 174 Energy Planning Standards

Note: prime vs. secondary wind energy resource is NOT based on wind speed.



April 2017