

Bristol Town Plan Maps

(in order of Appearance in Town Plan)

THE PEOPLE

Population Density and Housing

THE COMMUNITY

National Historic District

Public and Non-Profit Lands, Town of Bristol

Public and Non-Profit Lands, Bristol Village

Utilities and Facilities, Town of Bristol

Utilities and Facilities, Bristol Village

Septic Suitability and Private Water Yield

Transportation, Town of Bristol

Transportation, Bristol Village

The Environment

Land Cover

Biologically Significant Areas

Priority Forest Blocks and Habitat Connectors

Wildlife Corridors and Connectivity

Watersheds

Flood Hazard Areas, Town of Bristol

Flood Hazard Areas, Bristol Village

Land Use Planning Areas, Town of Bristol

Land Use Planning Areas, Village Planning Area

Designated Downtown District

Aggregate Resource Potential

Enhanced Energy Plan

Transmission and Distribution Resources

Wind Power Resource

Highest Priority Forest Blocks

Potential Solar Resource Siting Areas

Potential Wind Resource Siting Areas

Potential Biomass Resource Siting Areas

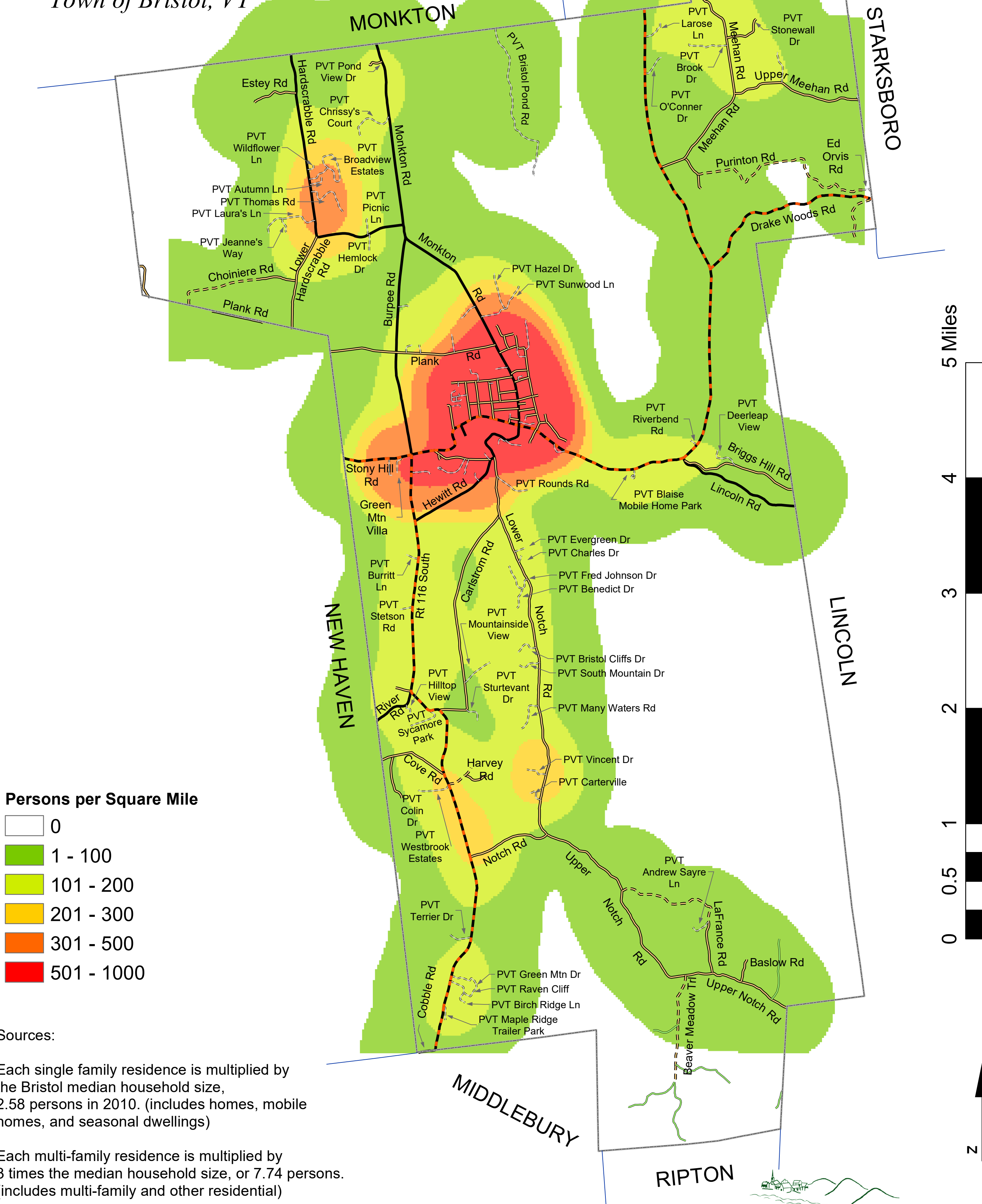
State and Local Known Constraints

State and Local Possible Constraints

Preferred Energy Area

Population Density (persons per sq mile)

Town of Bristol, VT



Persons per Square Mile

- 0
- 1 - 100
- 101 - 200
- 201 - 300
- 301 - 500
- 501 - 1000

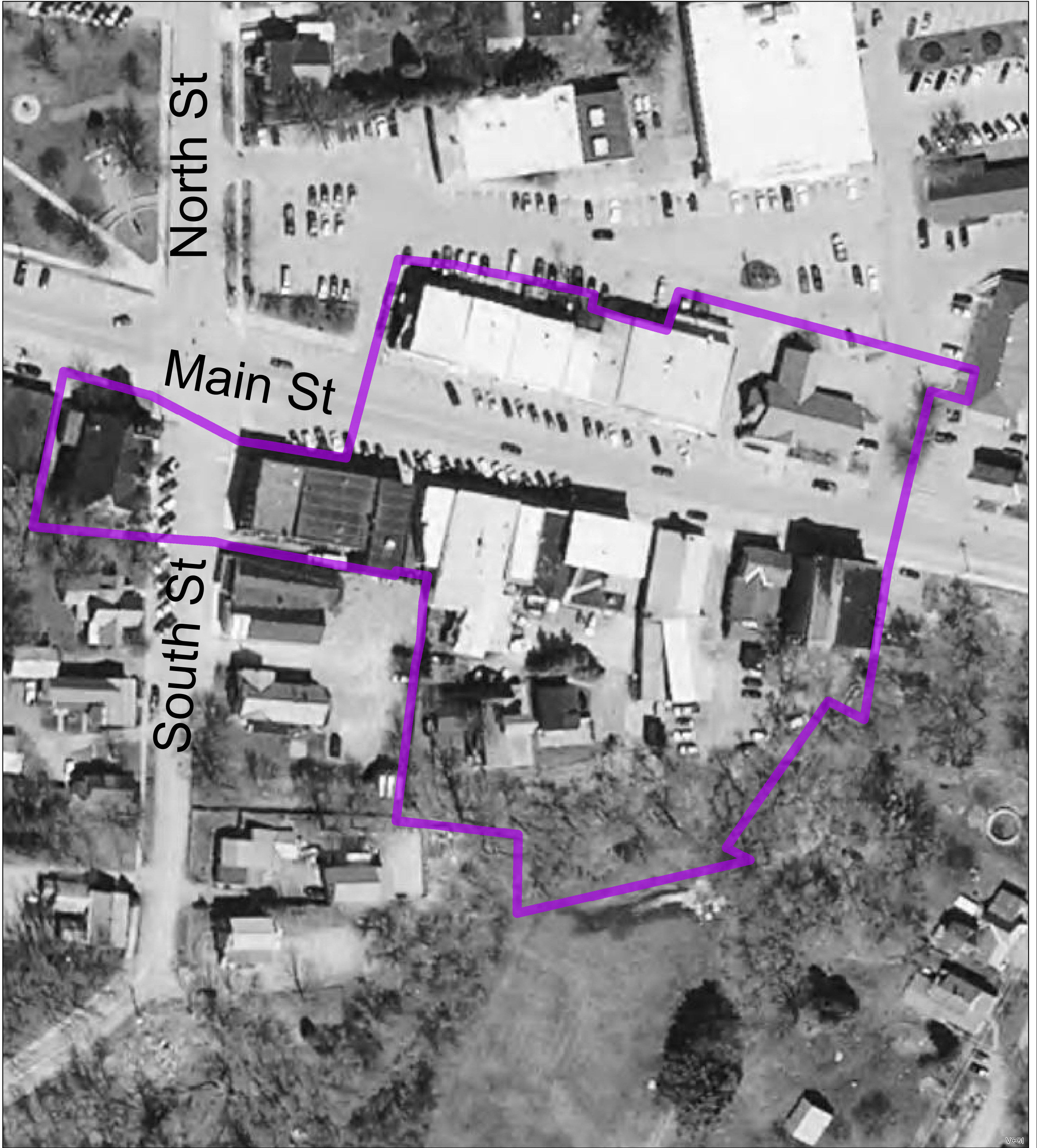
Sources:

Each single family residence is multiplied by the Bristol median household size, 2.58 persons in 2010. (includes homes, mobile homes, and seasonal dwellings)

Each multi-family residence is multiplied by 3 times the median household size, or 7.74 persons. (includes multi-family and other residential)

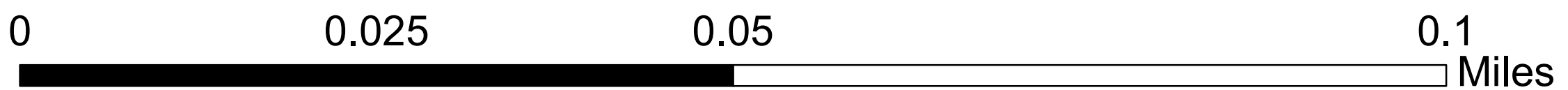
National Historic District

Town of Bristol, VT



Legend

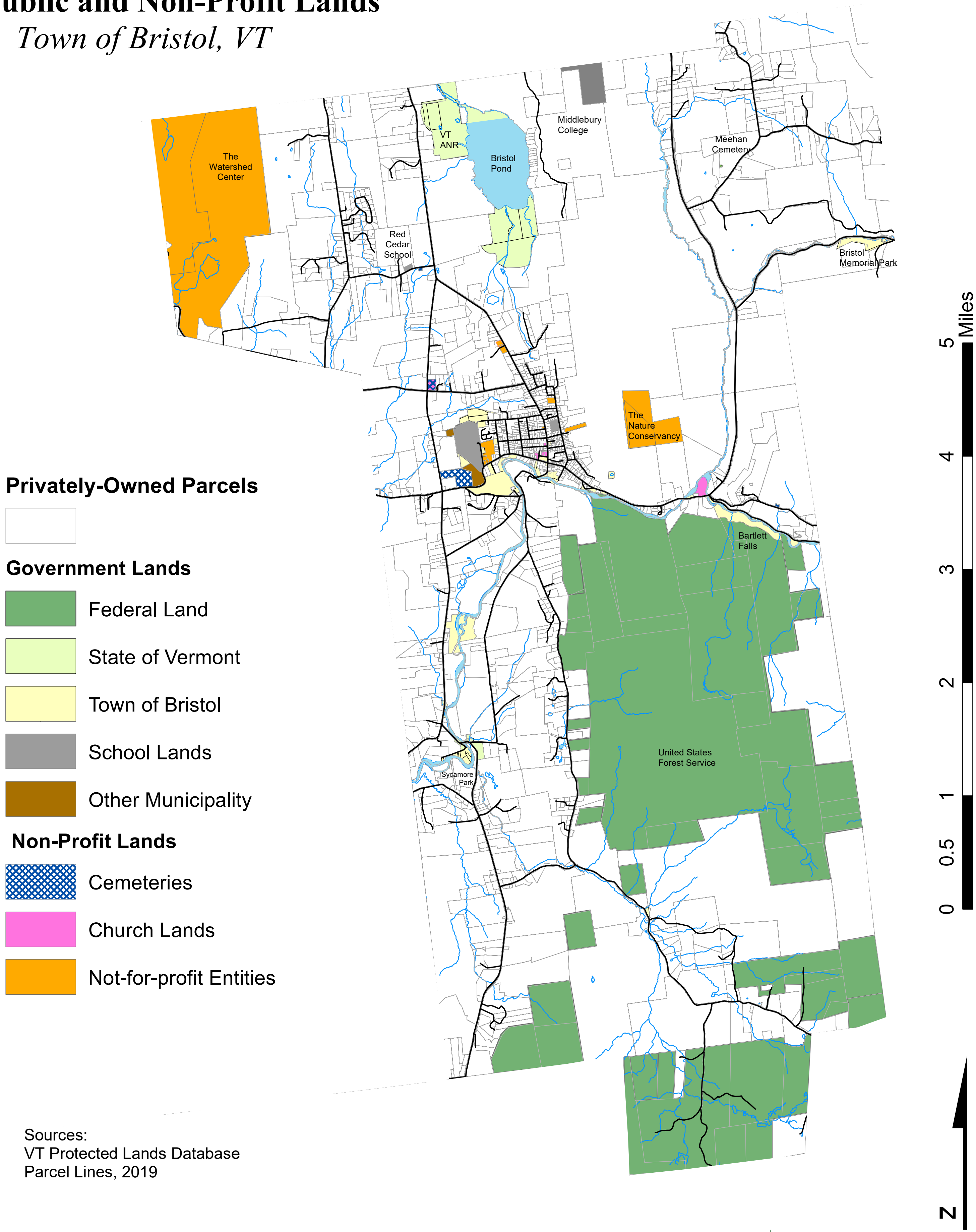
-  National Historic District
-  Tax Parcels (2018)



Imagery: Vermont Orthophotos, 2017-2018

Public and Non-Profit Lands

Town of Bristol, VT


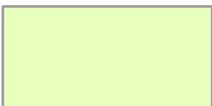
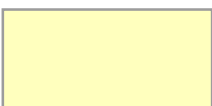




Public and Non-Profit Lands




Town of Bristol, VT



Government Lands

-  Federal Land
-  State of Vermont
-  Town of Bristol
-  School Lands
-  Other Municipality

Non-Profit Lands

-  Cemeteries
-  Church Lands
-  Not-for-profit Entities

Privately-Owned Parcels

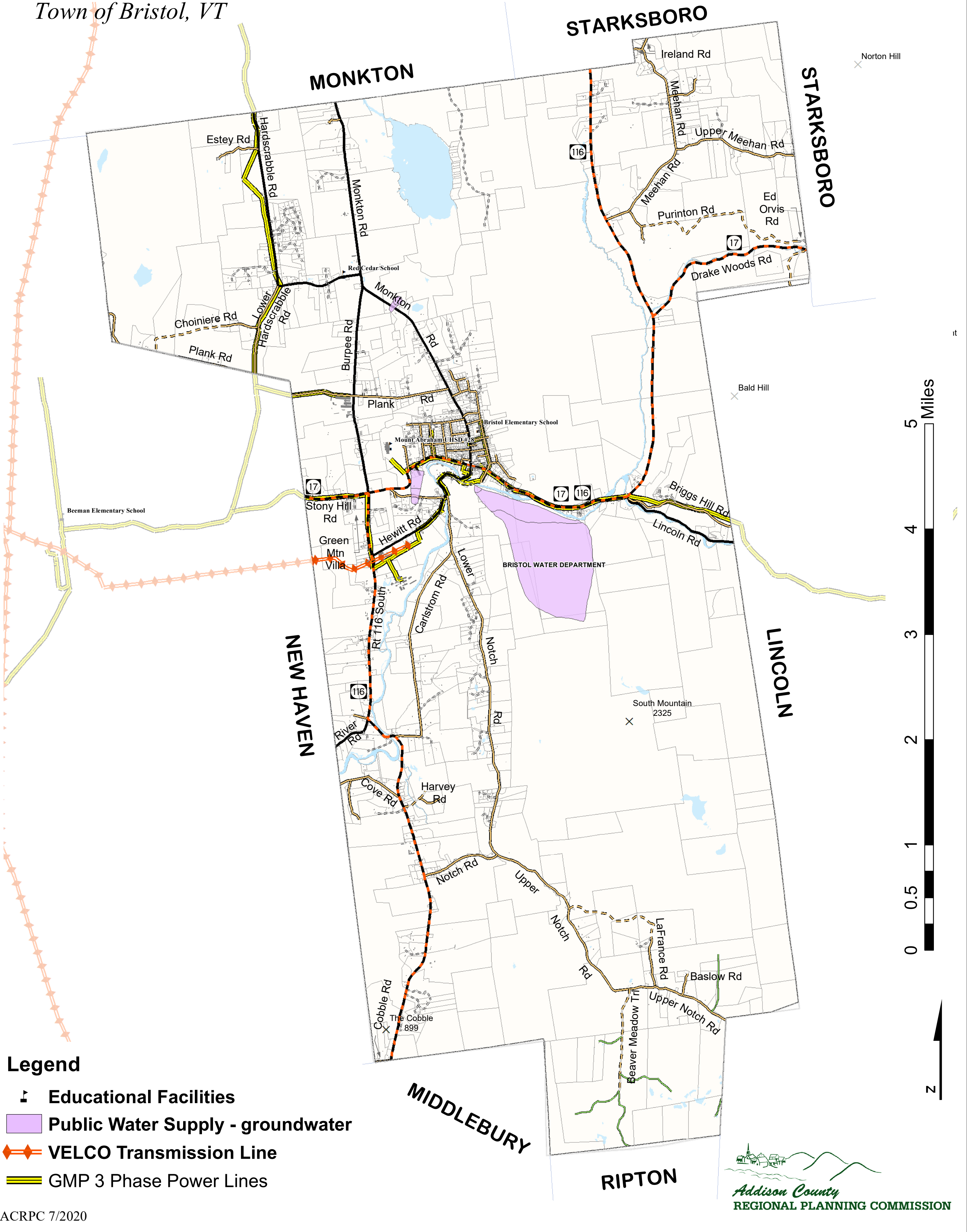


Sources:
VT Protected Lands Database
Parcel Lines, 2019



Utilities and Facilities

Town of Bristol, VT



Legend

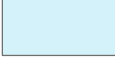


- 📍 Educational Facilities
- 🟪 Public Water Supply - groundwater
- 🔌 VELCO Transmission Line
- 🟡 GMP 3 Phase Power Lines

Utilities and Facilities- Village Area

Town of Bristol, VT



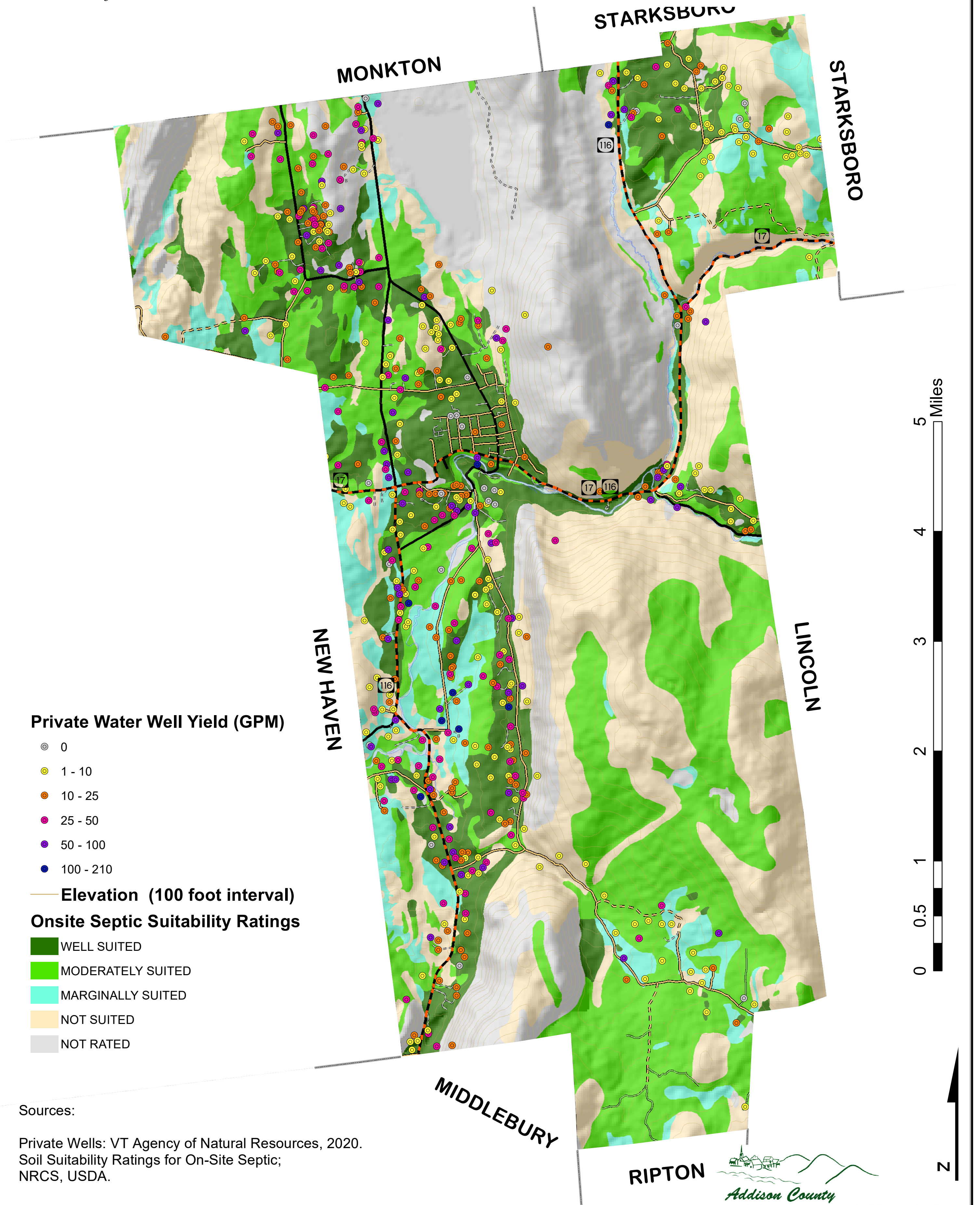
Legend

-  Public Water Supply - groundwater
-  Septic Service Area
-  GMP 3 Phase Power Lines



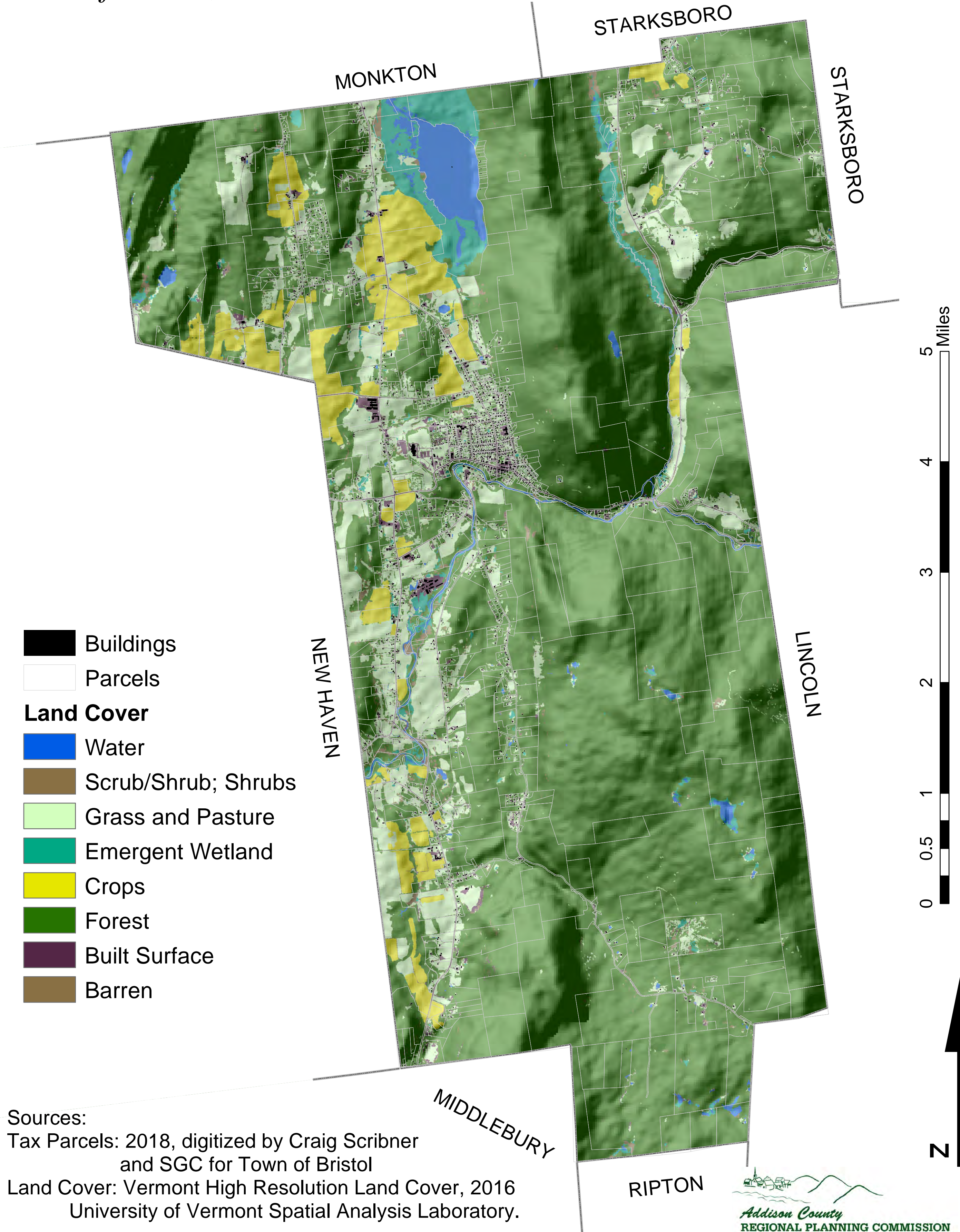
Septic Suitability and Private Water Well Yield

Town of Bristol, VT

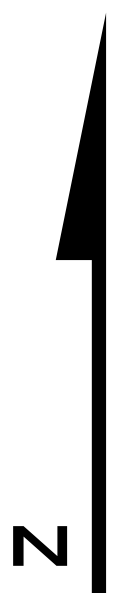
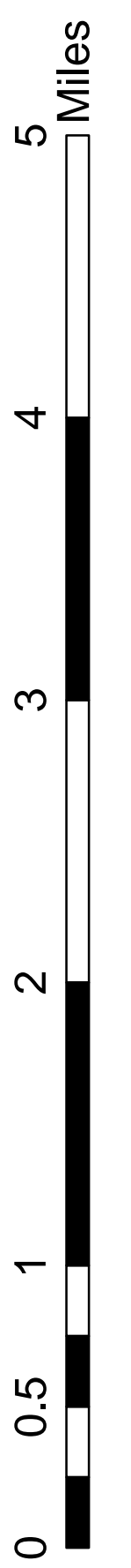


Land Cover

Town of Bristol, VT



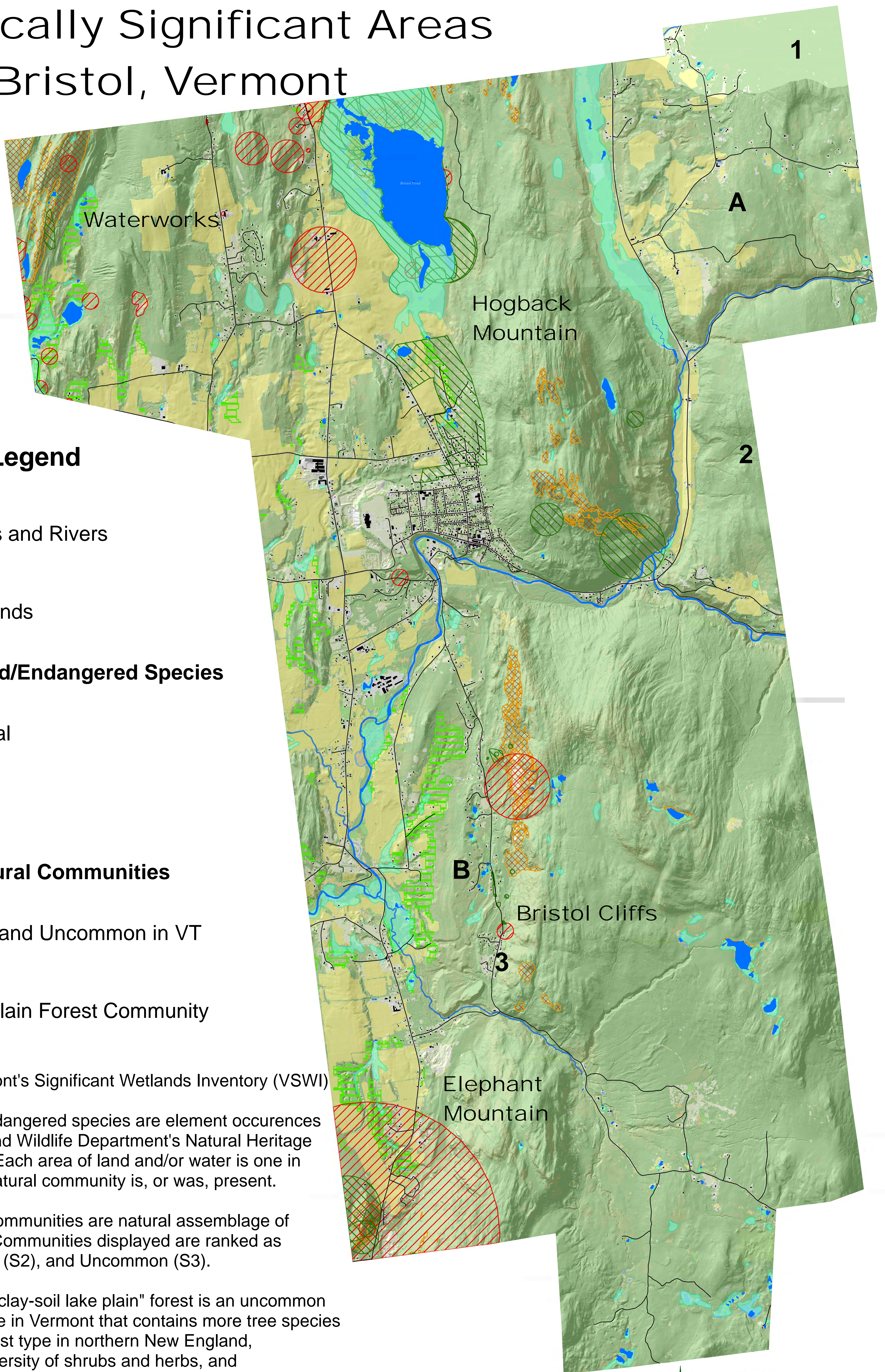
- Buildings
- Parcels
- Land Cover**
- Water
- Scrub/Shrub; Shrubs
- Grass and Pasture
- Emergent Wetland
- Crops
- Forest
- Built Surface
- Barren



Sources:
 Tax Parcels: 2018, digitized by Craig Scribner and SGC for Town of Bristol
 Land Cover: Vermont High Resolution Land Cover, 2016
 University of Vermont Spatial Analysis Laboratory.



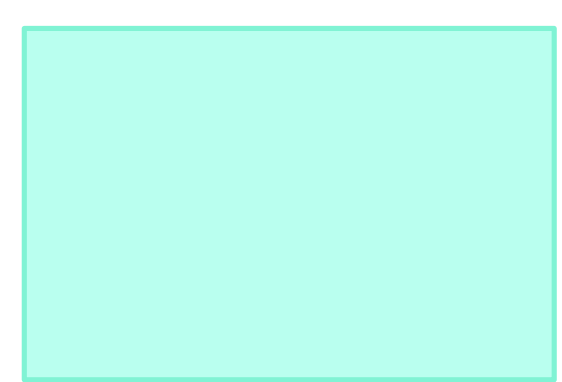
Biologically Significant Areas Bristol, Vermont



Legend

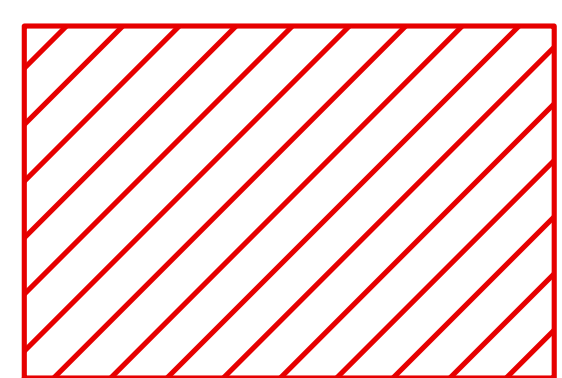


Lakes and Rivers

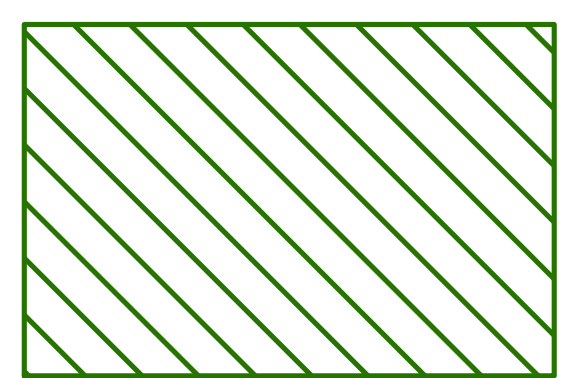


Wetlands

Rare/Threatened/Endangered Species

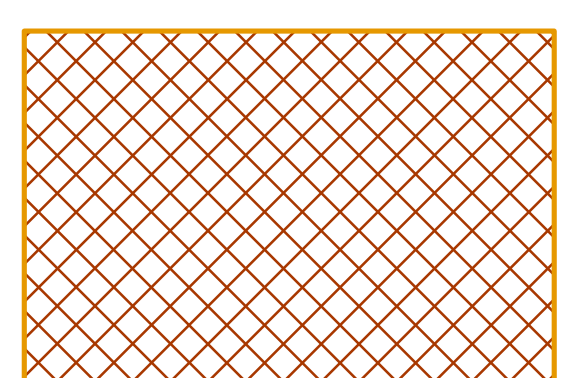


Animal



Plant

Significant Natural Communities



Rare and Uncommon in VT



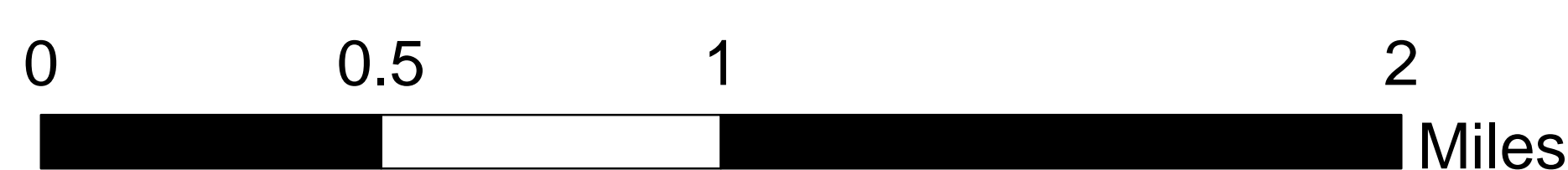
Clayplain Forest Community

Wetlands from Vermont's Significant Wetlands Inventory (VSWI)

Rare/Threatened/Endangered species are element occurrences from Vermont Fish and Wildlife Department's Natural Heritage Inventory database. Each area of land and/or water is one in which a species or natural community is, or was, present.

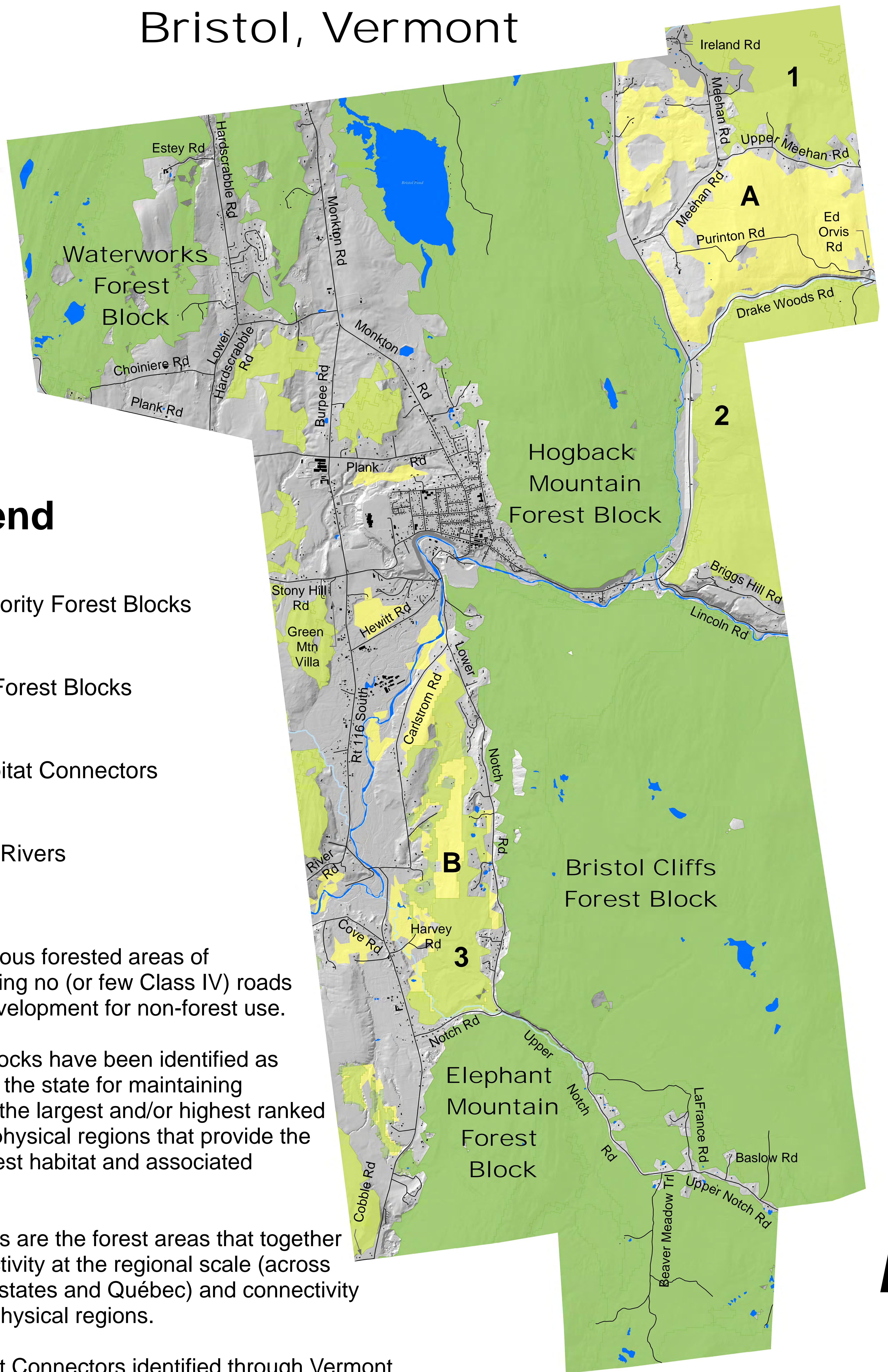
Significant Natural Communities are natural assemblage of plants and animals. Communities displayed are ranked as Very Rare (S1), Rare (S2), and Uncommon (S3).

Clayplain Forest, or "clay-soil lake plain" forest is an uncommon forest community type in Vermont that contains more tree species than in any other forest type in northern New England, as well as a great diversity of shrubs and herbs, and provides excellent wildlife habitat.



Addison County
REGIONAL PLANNING COMMISSION

Forest Blocks and Habitat Connectors Bristol, Vermont



Legend

- Highest Priority Forest Blocks
- Important Forest Blocks
- Forest Habitat Connectors
- Lakes and Rivers

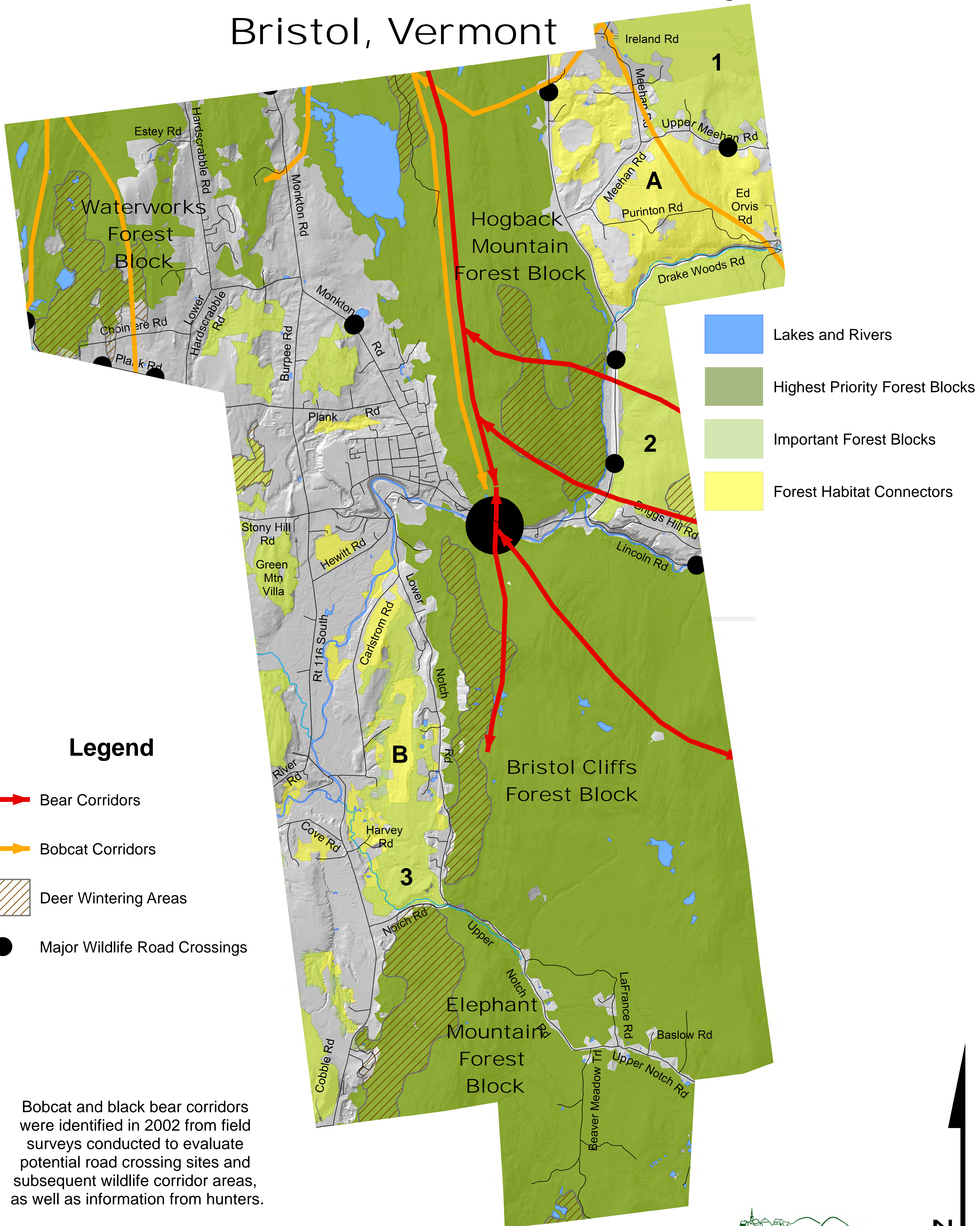
Forest blocks are contiguous forested areas of at least 20 acres, containing no (or few Class IV) roads and little or no human development for non-forest use.

Highest Priority Forest Blocks have been identified as the highest priority across the state for maintaining interior forest. These are the largest and/or highest ranked forest blocks from all biophysical regions that provide the foundation for interior forest habitat and associated ecological functions.

Forest Habitat Connectors are the forest areas that together provide terrestrial connectivity at the regional scale (across Vermont and to adjacent states and Québec) and connectivity between all Vermont biophysical regions.





Forest Blocks and Habitat Connectors identified through Vermont Conservation Design by the VT Agency of Natural Resources

Wildlife Corridors and Connectivity Bristol, Vermont



Legend

-  Bear Corridors
-  Bobcat Corridors
-  Deer Wintering Areas
-  Major Wildlife Road Crossings

-  Lakes and Rivers
-  Highest Priority Forest Blocks
-  Important Forest Blocks
-  Forest Habitat Connectors



Bobcat and black bear corridors were identified in 2002 from field surveys conducted to evaluate potential road crossing sites and subsequent wildlife corridor areas, as well as information from hunters.



Flood Hazard Areas

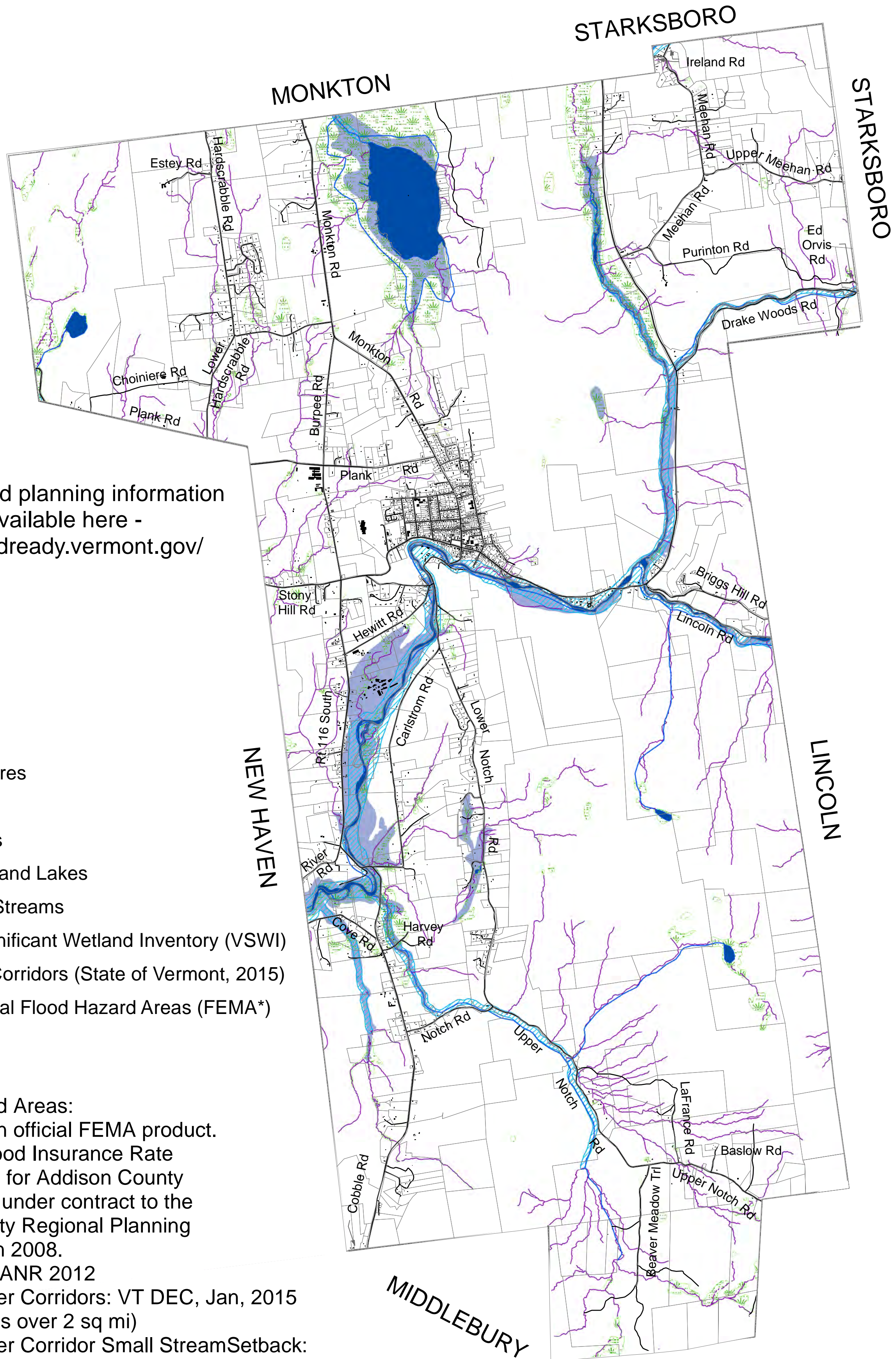
Town of Bristol, VT

Current flood planning information is available here - <http://floodready.vermont.gov/>

-  Structures
-  Roads
-  Parcels
-  Rivers and Lakes
-  Small Streams
-  VT Significant Wetland Inventory (VSWI)
-  River Corridors (State of Vermont, 2015)
-  * Special Flood Hazard Areas (FEMA*)

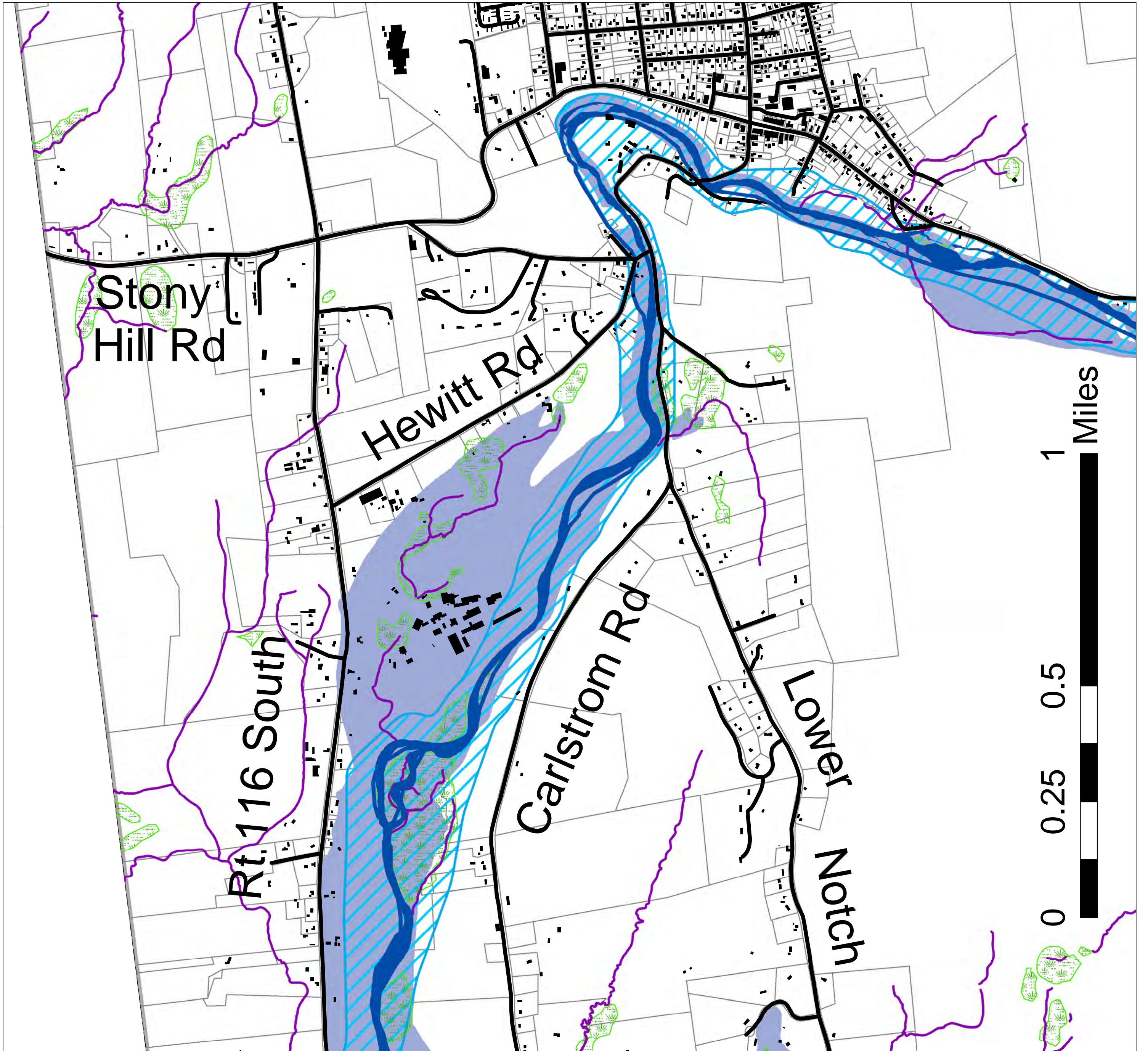
Sources:

* Flood Hazard Areas:
 This is NOT an official FEMA product. The FEMA Flood Insurance Rate Maps (FIRMs) for Addison County were digitized under contract to the Addison County Regional Planning Commission in 2008.
 Wetlands: VT ANR 2012
 Statewide River Corridors: VT DEC, Jan, 2015 (watersheds over 2 sq mi)
 Statewide River Corridor Small Stream Setback: VT DEC, June, 2017, v.2 (approx location)
 Tax Parcels: 2018, digitized by Craig Scribner and SGC for Town of Bristol



Flood Hazard Areas

Town of Bristol, VT



-  Roads
-  Structures
-  Parcels
-  Rivers and Lakes
-  Small Streams
-  VT Significant Wetland Inventory (VSWI)
-  River Corridors (State of Vermont, 2015)
-  * Special Flood Hazard Areas (FEMA*)

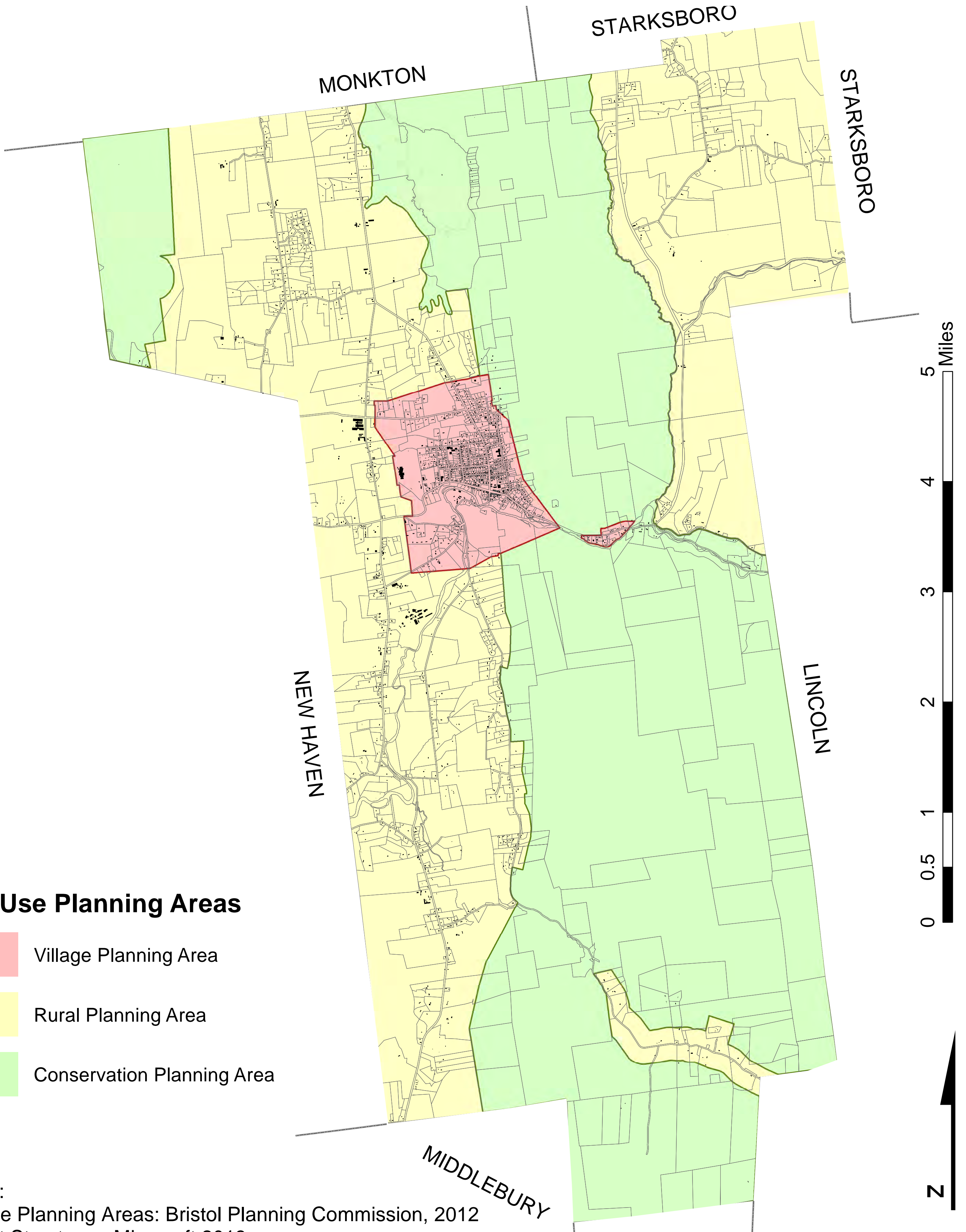
Sources:

* Flood Hazard Areas:
 This is NOT an official FEMA product.
 The FEMA Flood Insurance Rate
 Maps (FIRMs) for Addison County
 were digitized under contract to the
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 Commission in 2008.
 Wetlands: VT ANR 2012
 Statewide River Corridors: VT DEC, Jan, 2015
 (watersheds over 2 sq mi)
 Statewide River Corridor Small Stream
 Setback: VT DEC, June, 2017, v.2 (approx location)
 Tax Parcels: 2016, Town of Bristol and



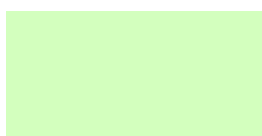
Current flood planning information
 is available here -

<http://floodready.vermont.gov/>

Land Use Planning Areas
Town of Bristol, VT



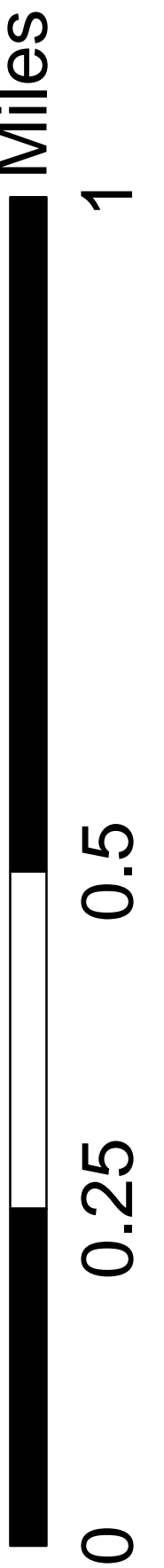
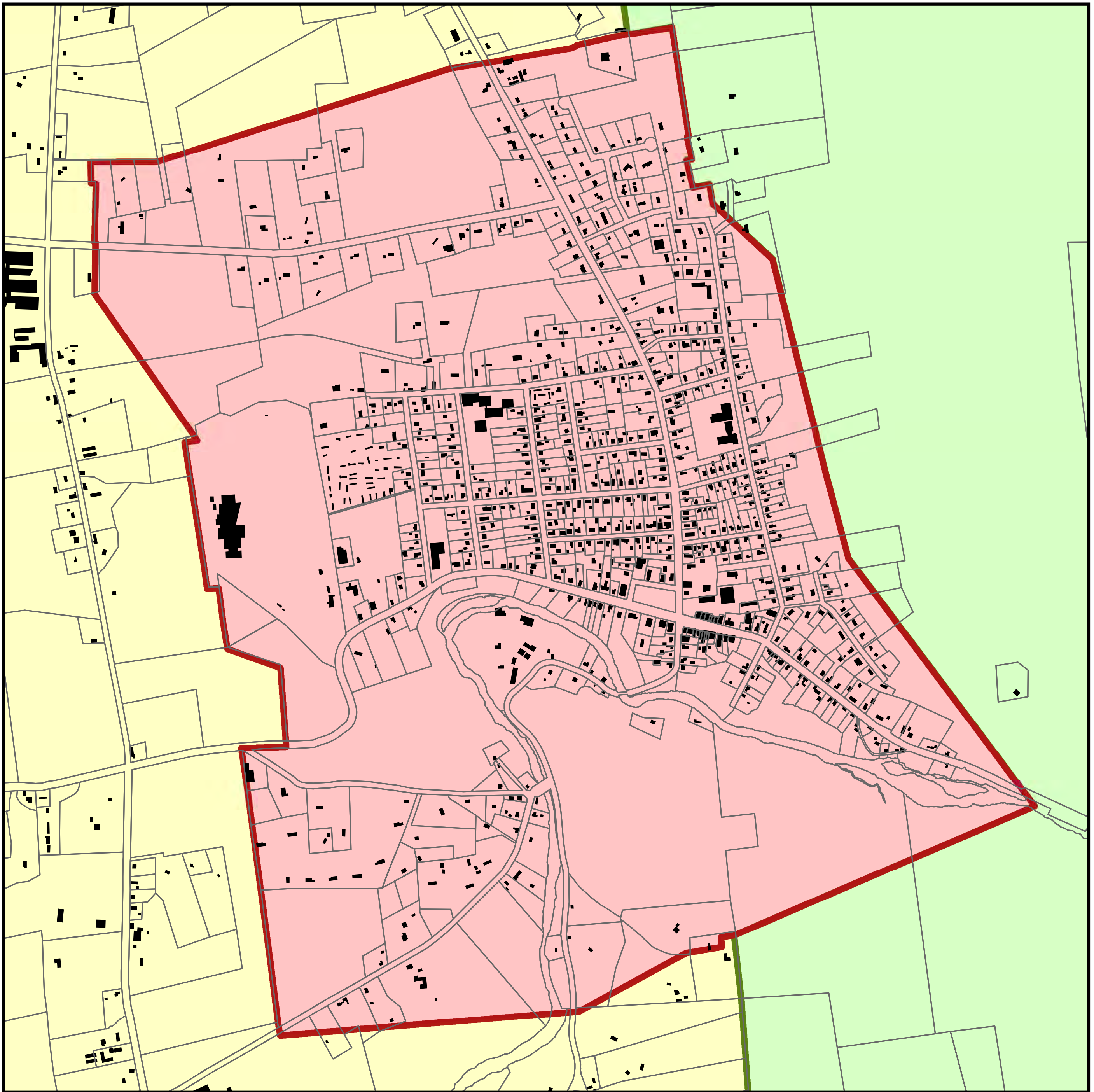
Land Use Planning Areas

-  Village Planning Area
-  Rural Planning Area
-  Conservation Planning Area



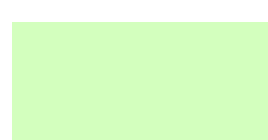
Sources:
Land Use Planning Areas: Bristol Planning Commission, 2012
Footprint Structures, Microsoft 2013
Parcel Lines, 2019

Land Use Planning Areas- Village Planning Area

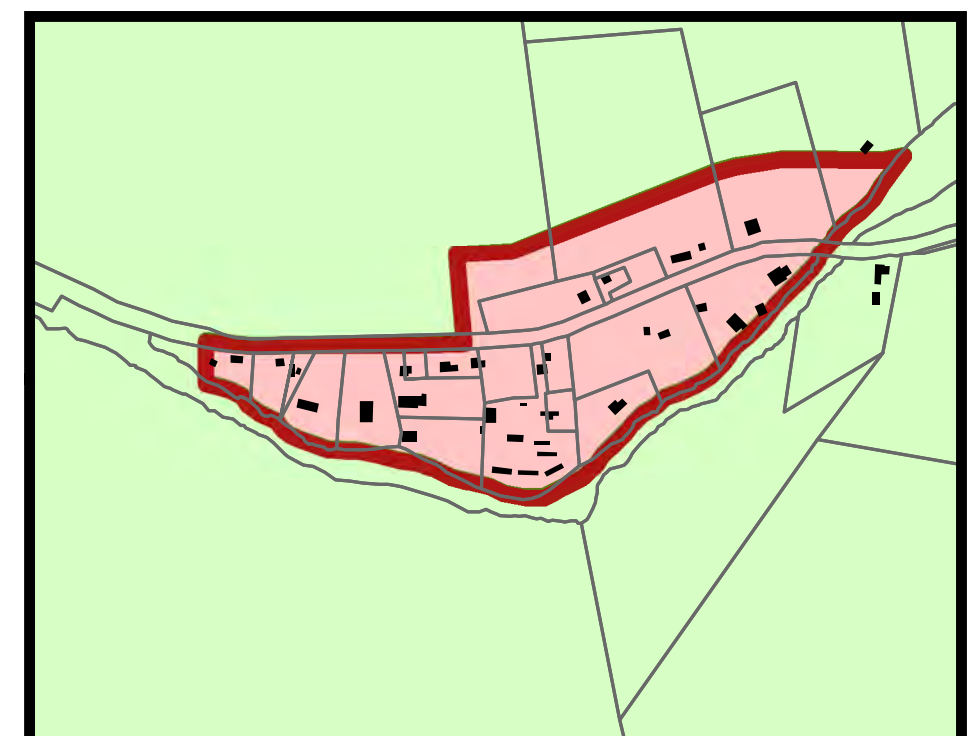
Town of Bristol, VT



Land Use Planning Areas

-  Village Planning Area
-  Rural Planning Area
-  Conservation Planning Area

Sources:
Land Use Planning Areas: Bristol Planning Commission, 2012
Parcel Lines, 2019
Footprint Structures, Microsoft 2013





Designated Downtown District

Town of Bristol, VT



Legend

-  Designated Downtown District
-  National Historic District
-  Tax Parcels (2018)
-  Septic Service Area

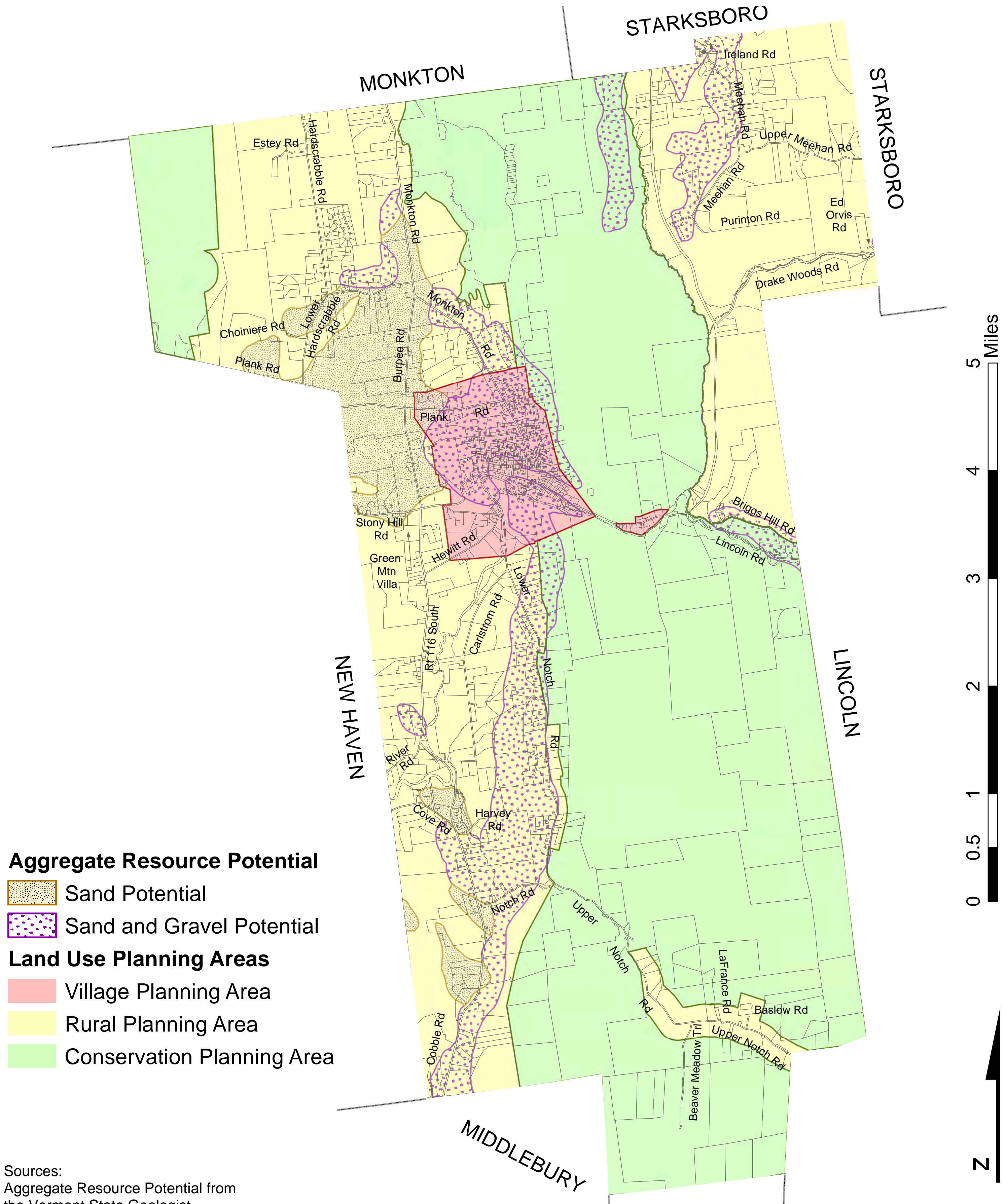
0 0.01 0.02 0.04 0.06 0.08 0.1 Miles

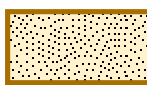

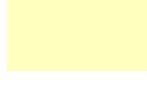
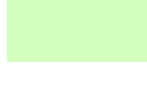
Imagery: Vermont Orthophotos, 2017-2018



N

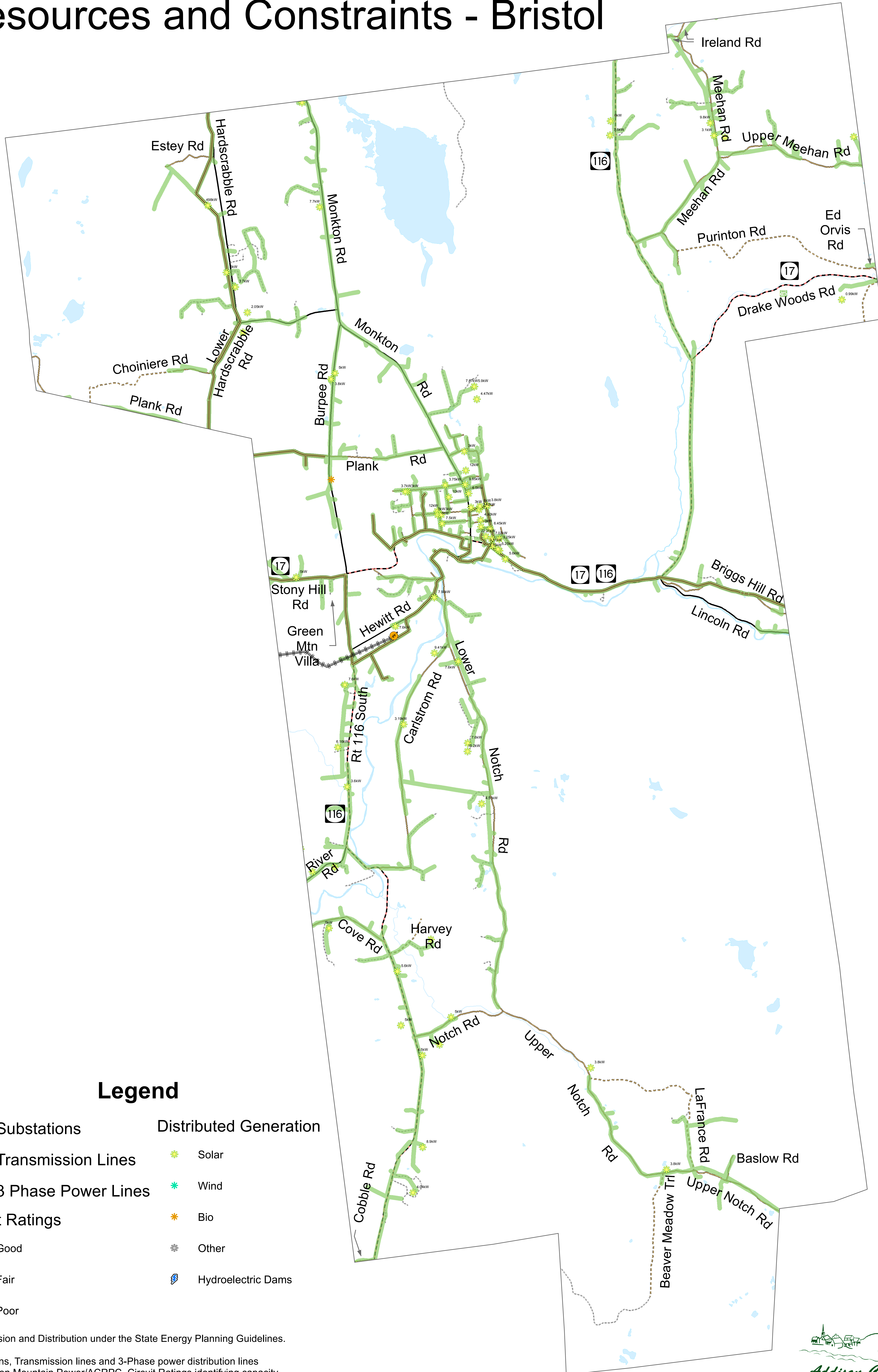
Aggregate Resource Potential Town of Bristol, VT



- Aggregate Resource Potential**
-  Sand Potential
 -  Sand and Gravel Potential
- Land Use Planning Areas**
-  Village Planning Area
 -  Rural Planning Area
 -  Conservation Planning Area

Sources:
Aggregate Resource Potential from
the Vermont State Geologist.

Renewable Energy Potential: Transmission and Distribution Resources and Constraints - Bristol

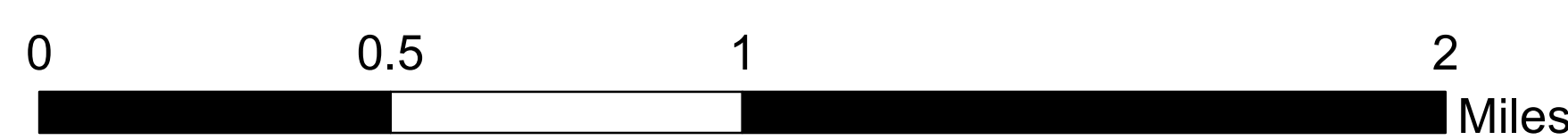


Legend

- | | |
|------------------------|-------------------------------|
| Substations | Distributed Generation |
| Transmission Lines | Solar |
| 3 Phase Power Lines | Wind |
| Circuit Ratings | Bio |
| Good | Other |
| Fair | Hydroelectric Dams |
| Poor | |

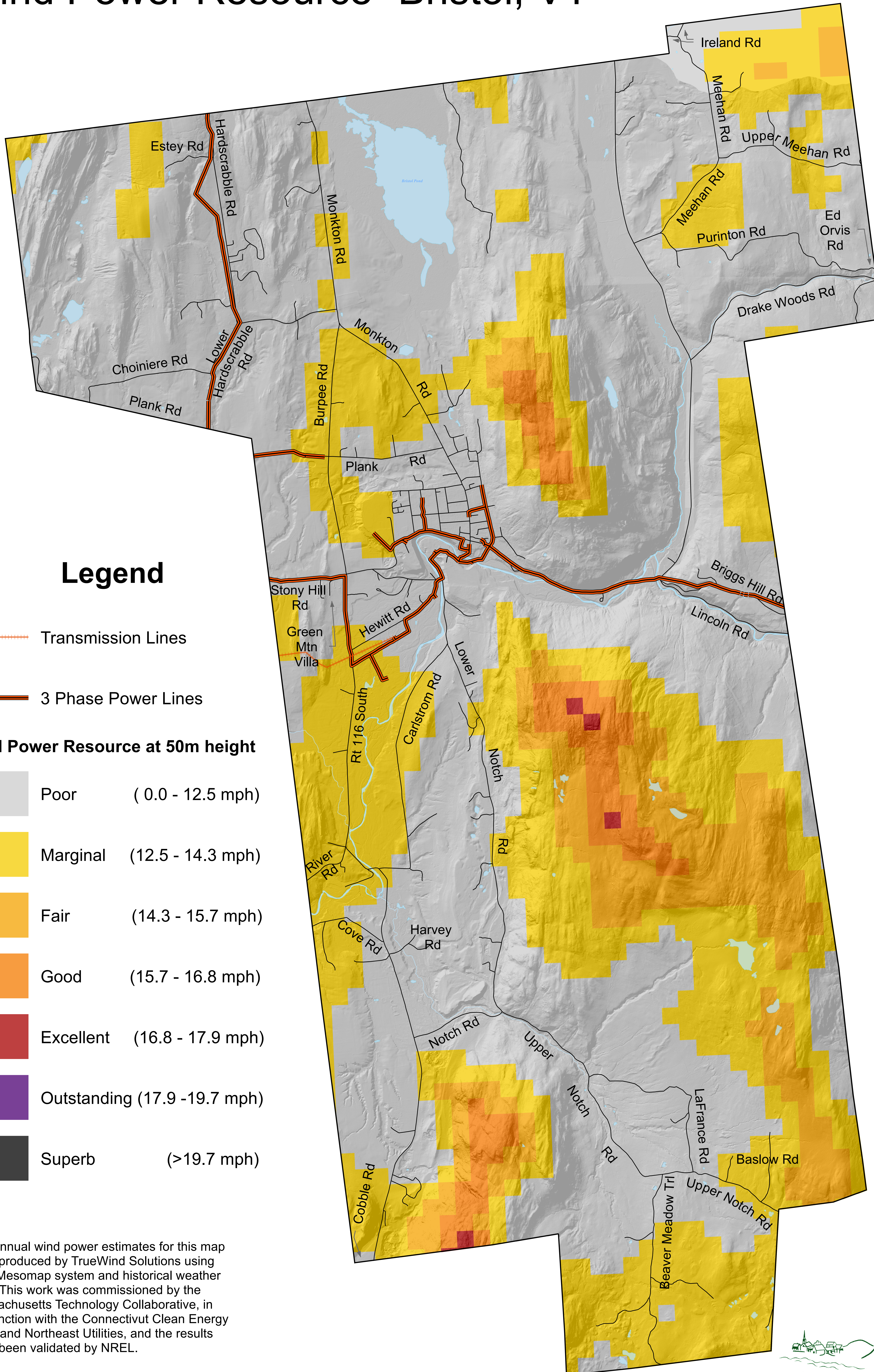
Transmission and Distribution under the State Energy Planning Guidelines.

Substations, Transmission lines and 3-Phase power distribution lines from Green Mountain Power/ACRPC, Circuit Ratings identifying capacity loads and Distributed Generation also from Green Mountain Power, 4/28/2017. Hydroelectric facilities from agency of Natural Resources.





This map was created as part of a Regional Energy Planning Initiative with funding from the Vermont Public Service Department.








Wind Power Resource- Bristol, VT



Legend

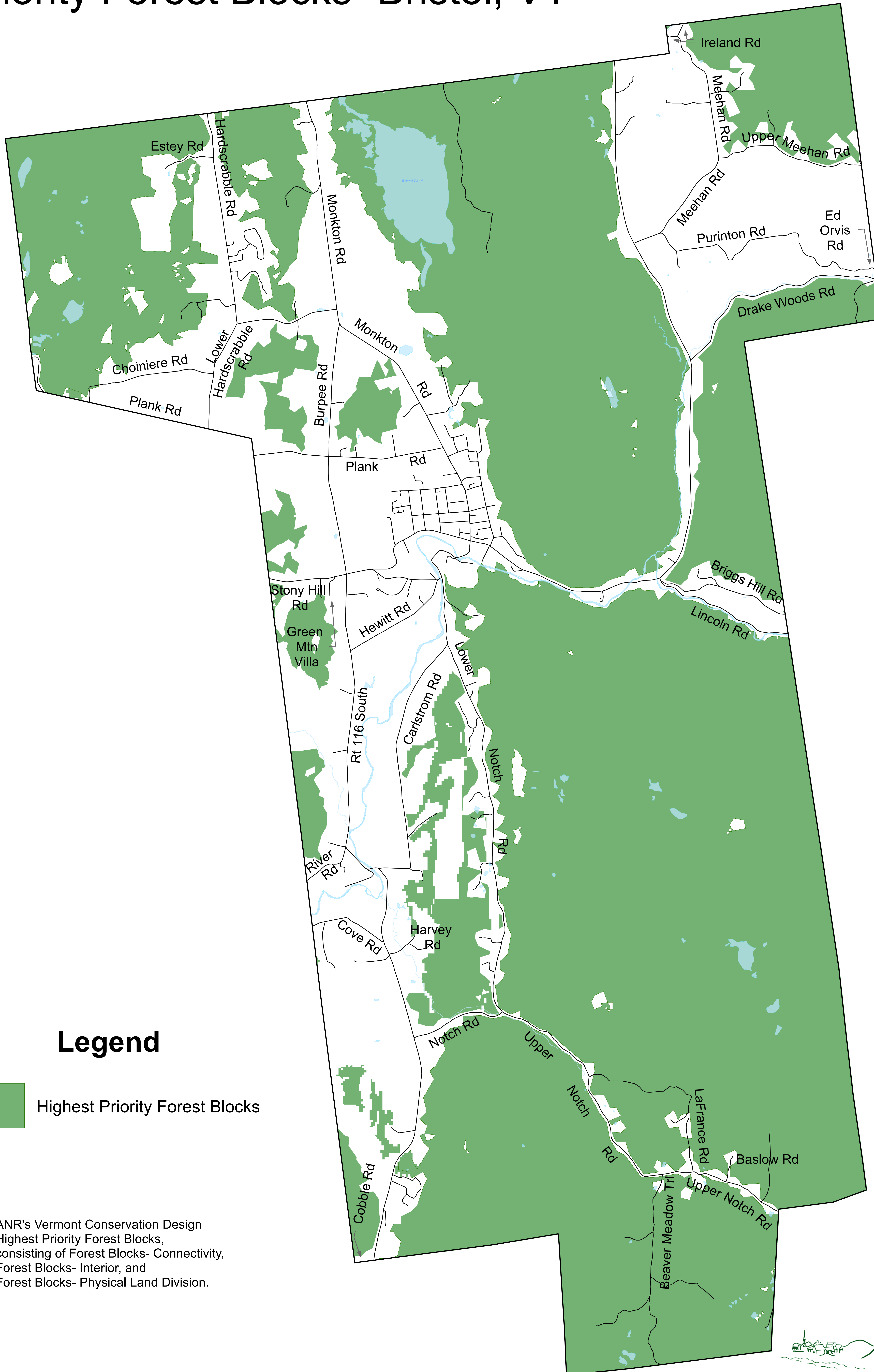
-  Transmission Lines
-  3 Phase Power Lines

Wind Power Resource at 50m height

-  Poor (0.0 - 12.5 mph)
-  Marginal (12.5 - 14.3 mph)
-  Fair (14.3 - 15.7 mph)
-  Good (15.7 - 16.8 mph)
-  Excellent (16.8 - 17.9 mph)
-  Outstanding (17.9 - 19.7 mph)
-  Superb (>19.7 mph)

The annual wind power estimates for this map were produced by TrueWind Solutions using their Mesomap system and historical weather data. This work was commissioned by the Massachusetts Technology Collaborative, in conjunction with the Connecticut Clean Energy Fund and Northeast Utilities, and the results have been validated by NREL.

Priority Forest Blocks- Bristol, VT

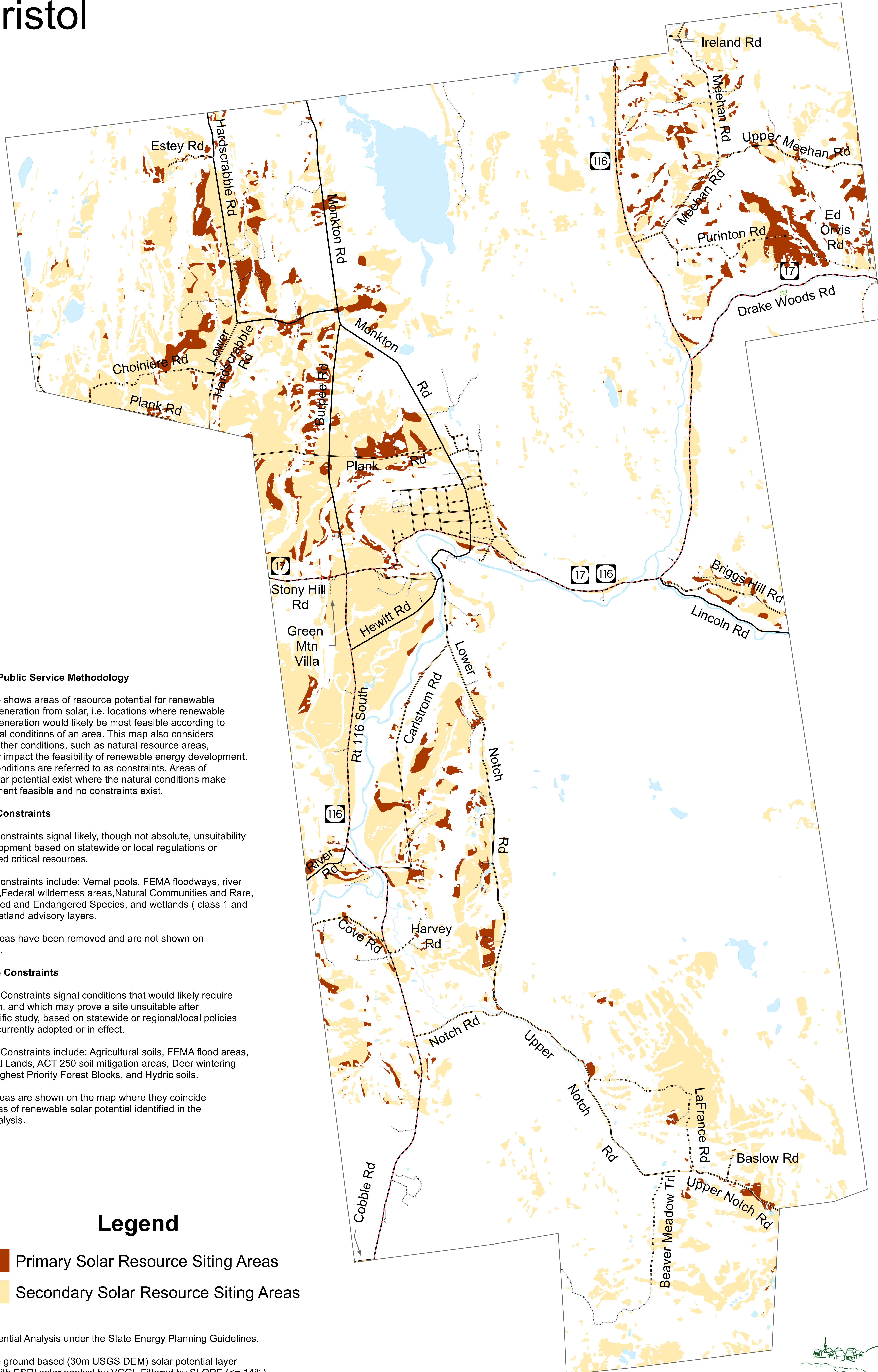


Legend

 Highest Priority Forest Blocks

ANR's Vermont Conservation Design
 Highest Priority Forest Blocks,
 consisting of Forest Blocks- Connectivity,
 Forest Blocks- Interior, and
 Forest Blocks- Physical Land Division.

Renewable Energy: Potential Solar Resource Siting Areas - Bristol



Dept of Public Service Methodology

This map shows areas of resource potential for renewable energy generation from solar, i.e. locations where renewable energy generation would likely be most feasible according to the natural conditions of an area. This map also considers various other conditions, such as natural resource areas, that may impact the feasibility of renewable energy development. These conditions are referred to as constraints. Areas of prime solar potential exist where the natural conditions make development feasible and no constraints exist.

Known Constraints

Known Constraints signal likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources.

Known Constraints include: Vernal pools, FEMA floodways, river corridors, Federal wilderness areas, Natural Communities and Rare, Threatened and Endangered Species, and wetlands (class 1 and 2) and wetland advisory layers.

These areas have been removed and are not shown on this map.

Possible Constraints

Possible Constraints signal conditions that would likely require mitigation, and which may prove a site unsuitable after site-specific study, based on statewide or regional/local policies that are currently adopted or in effect.

Possible Constraints include: Agricultural soils, FEMA flood areas, Protected Lands, ACT 250 soil mitigation areas, Deer wintering areas, Highest Priority Forest Blocks, and Hydric soils.

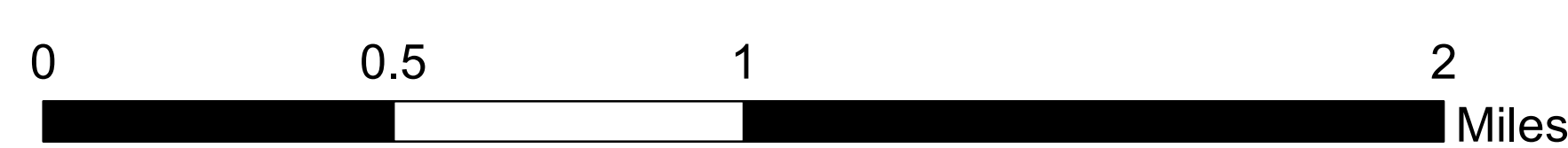
These areas are shown on the map where they coincide with areas of renewable solar potential identified in the solar analysis.

Legend

- Primary Solar Resource Siting Areas
- Secondary Solar Resource Siting Areas

Solar Potential Analysis under the State Energy Planning Guidelines.

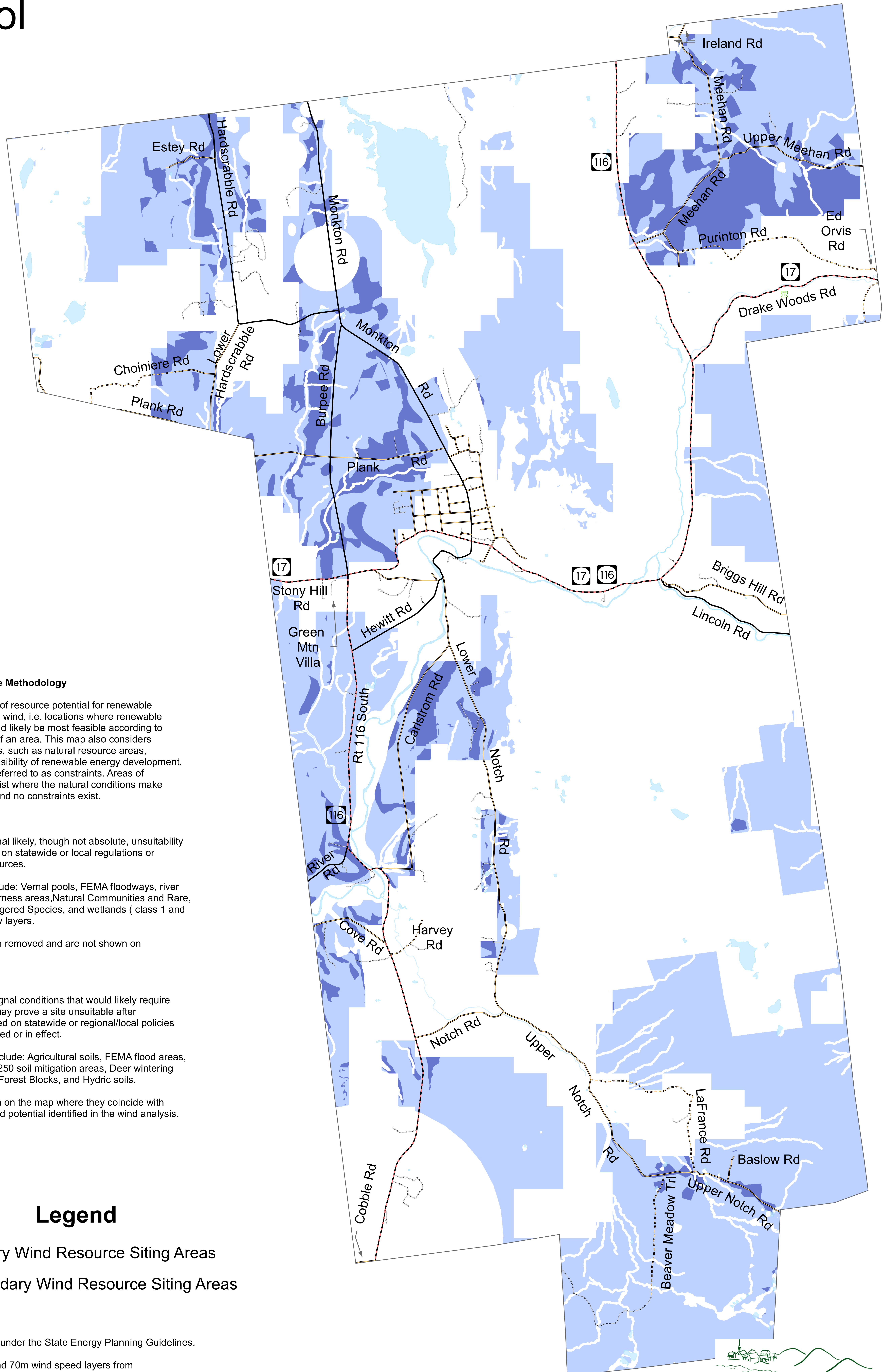
Statewide ground based (30m USGS DEM) solar potential layer created with ESRI solar analyst by VCGI. Filtered by SLOPE (<= 14%), ASPECT (90-270 degrees) and values >= 1,000 kWh/sq meter.



Addison County
REGIONAL PLANNING COMMISSION

This map was created as part of a Regional Energy Planning Initiative with funding from the Vermont Public Service Department.

Renewable Energy: Potential Wind Resource Siting Areas - Bristol



Dept of Public Service Methodology

This map shows areas of resource potential for renewable energy generation from wind, i.e. locations where renewable energy generation would likely be most feasible according to the natural conditions of an area. This map also considers various other conditions, such as natural resource areas, that may impact the feasibility of renewable energy development. These conditions are referred to as constraints. Areas of prime wind potential exist where the natural conditions make development feasible and no constraints exist.

Known Constraints

Known Constraints signal likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources.

Known Constraints include: Vernal pools, FEMA floodways, river corridors, Federal wilderness areas, Natural Communities and Rare, Threatened and Endangered Species, and wetlands (class 1 and 2) and wetland advisory layers.

These areas have been removed and are not shown on this map.

Possible Constraints

Possible Constraints signal conditions that would likely require mitigation, and which may prove a site unsuitable after site-specific study, based on statewide or regional/local policies that are currently adopted or in effect.

Possible Constraints include: Agricultural soils, FEMA flood areas, Protected Lands, ACT 250 soil mitigation areas, Deer wintering areas, Highest Priority Forest Blocks, and Hydric soils.

These areas are shown on the map where they coincide with areas of renewable wind potential identified in the wind analysis.

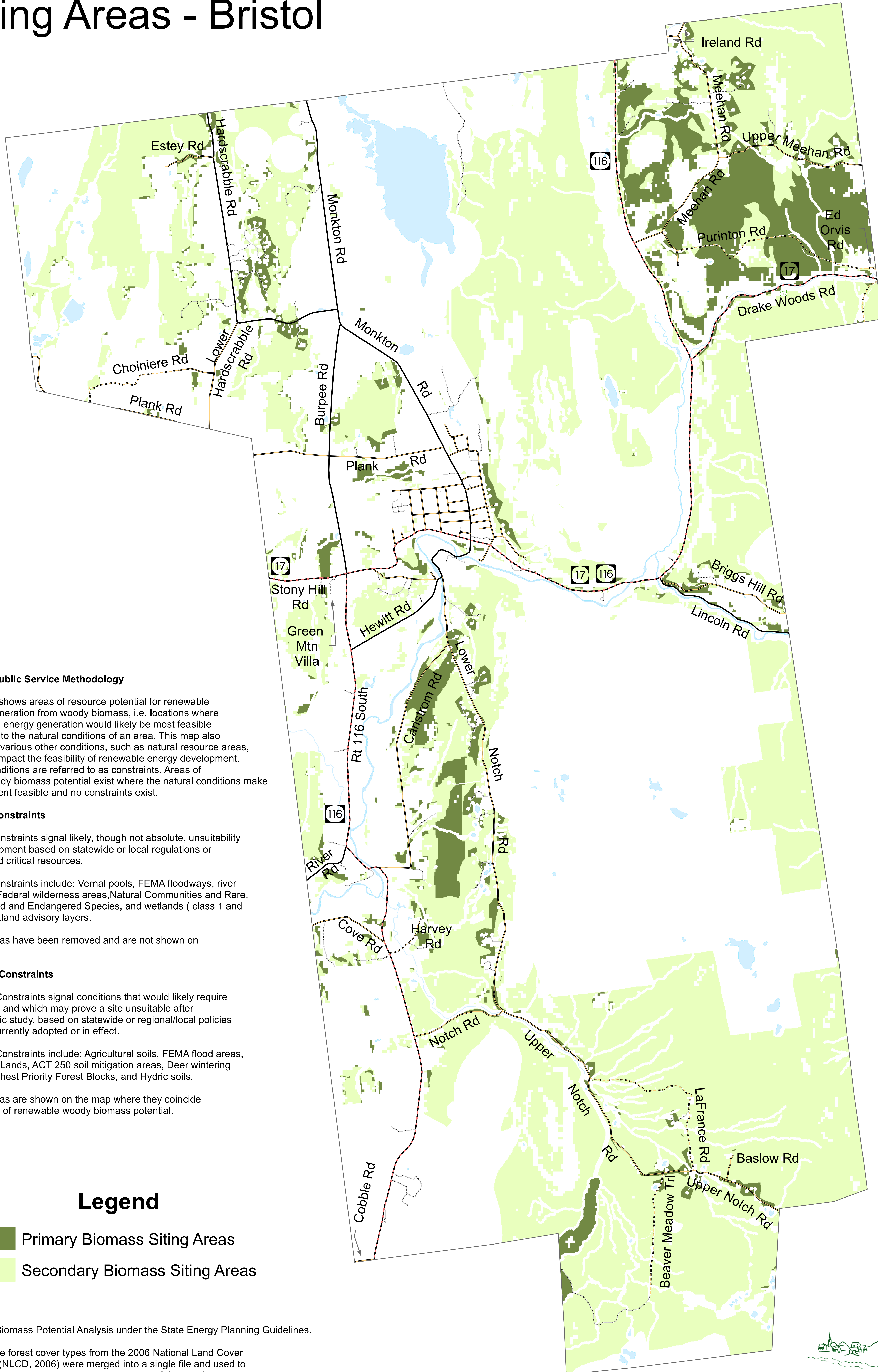
Legend

- Primary Wind Resource Siting Areas
- Secondary Wind Resource Siting Areas

Wind Potential Analysis under the State Energy Planning Guidelines.

Statewide 30m, 50m, and 70m wind speed layers from Mass.Tech Collaborative were filtered for minimum wind speed, then merged into a single file by VCGI.

Renewable Energy: Potential Woody Biomass Resource Siting Areas - Bristol



Dept of Public Service Methodology

This map shows areas of resource potential for renewable energy generation from woody biomass, i.e. locations where renewable energy generation would likely be most feasible according to the natural conditions of an area. This map also considers various other conditions, such as natural resource areas, that may impact the feasibility of renewable energy development. These conditions are referred to as constraints. Areas of prime woody biomass potential exist where the natural conditions make development feasible and no constraints exist.

Known Constraints

Known Constraints signal likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources.

Known Constraints include: Vernal pools, FEMA floodways, river corridors, Federal wilderness areas, Natural Communities and Rare, Threatened and Endangered Species, and wetlands (class 1 and 2) and wetland advisory layers.

These areas have been removed and are not shown on this map.

Possible Constraints

Possible Constraints signal conditions that would likely require mitigation, and which may prove a site unsuitable after site-specific study, based on statewide or regional/local policies that are currently adopted or in effect.

Possible Constraints include: Agricultural soils, FEMA flood areas, Protected Lands, ACT 250 soil mitigation areas, Deer wintering areas, Highest Priority Forest Blocks, and Hydric soils.

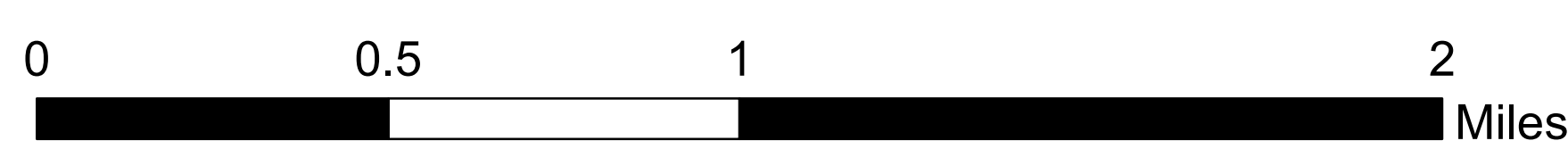
These areas are shown on the map where they coincide with areas of renewable woody biomass potential.

Legend

- Primary Biomass Siting Areas
- Secondary Biomass Siting Areas

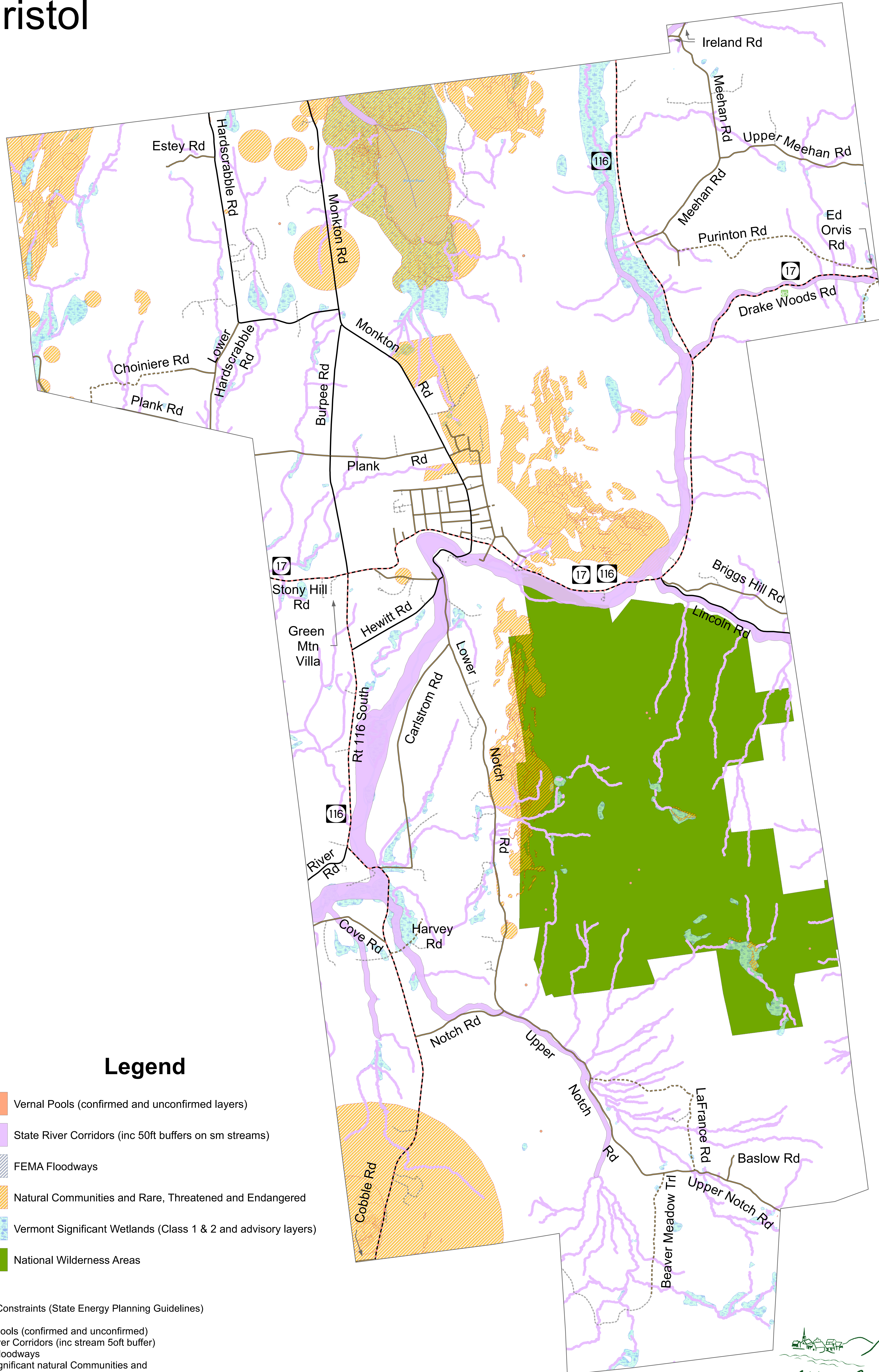
Woody Biomass Potential Analysis under the State Energy Planning Guidelines.

Statewide forest cover types from the 2006 National Land Cover Dataset (NLCD, 2006) were merged into a single file and used to calculate low-grade green tons per acre by VCGI. The forest cover areal extent was used in this analysis.





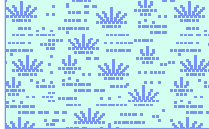



Renewable Energy Planning: Known Constraints

- Bristol



Legend

-  Vernal Pools (confirmed and unconfirmed layers)
-  State River Corridors (inc 50ft buffers on sm streams)
-  FEMA Floodways
-  Natural Communities and Rare, Threatened and Endangered
-  Vermont Significant Wetlands (Class 1 & 2 and advisory layers)
-  National Wilderness Areas

Known Constraints (State Energy Planning Guidelines)

- Vernal Pools (confirmed and unconfirmed)
- DEC River Corridors (inc stream 50ft buffer)
- FEMA Floodways
- State Significant natural Communities and Rare, Threatened and Endangered Species
- National Wilderness Areas
- Class 1 and Class 2 Wetlands (VSWI and advisory layers)
- Regionally or Locally Identified Critical Resources (none currently)



Addison County
REGIONAL PLANNING COMMISSION

This map was created as part of a Regional Energy Planning Initiative with funding from the Vermont Public Service Department.

Renewable Energy Planning: Possible Constraints

- Bristol

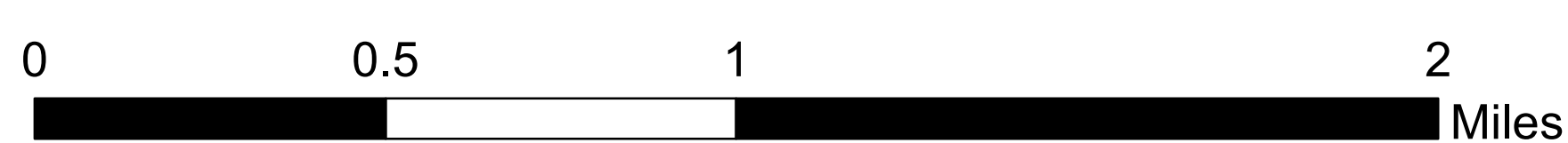


Legend

- Agricultural Soils
- FEMA Special Flood Hazard Areas
- Protected Lands
- Agricultural Soil Mitigation (Act 250)
- Deer Wintering Areas
- Highest Priority Forest Blocks
- Hydric Soils

Possible Constraints (State Energy Planning Guidelines)

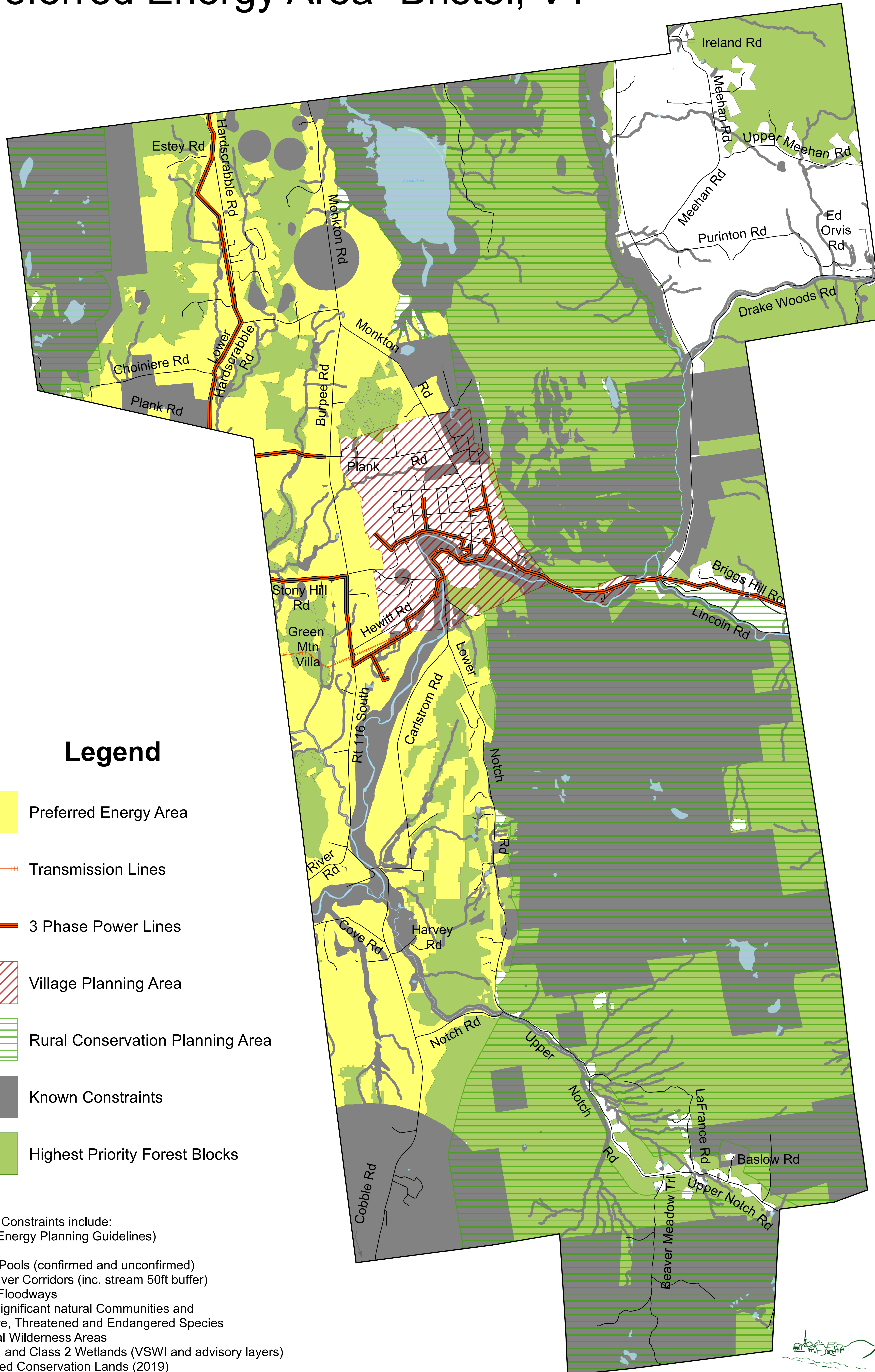
- Agricultural Soils (Prime, Statewide and Local USDA)
- FEMA Special Flood Hazard Areas
- Protected Lands (State fee lands and prvt cons lands)
- Act 250 Agricultural Soil Mitigation areas
- Deer Wintering Areas
- ANR's Vermont Conservation Design Highest Priority Forest Blocks
- Hydric Soils
- Regionally or Locally Identified Critical Resources (none currently)



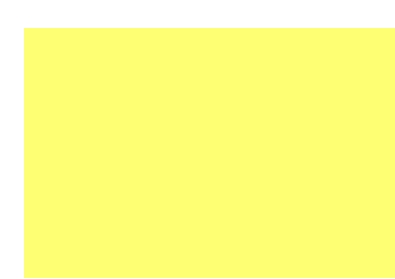


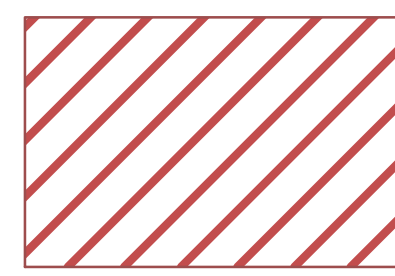



This map was created as part of a Regional Energy Planning Initiative with funding from the Vermont Public Service Department.



Preferred Energy Area- Bristol, VT



Legend

-  Preferred Energy Area
-  Transmission Lines
-  3 Phase Power Lines
-  Village Planning Area
-  Rural Conservation Planning Area
-  Known Constraints
-  Highest Priority Forest Blocks

Known Constraints include:
(State Energy Planning Guidelines)

Vernal Pools (confirmed and unconfirmed)
DEC River Corridors (inc. stream 50ft buffer)
FEMA Floodways
State Significant natural Communities and
Rare, Threatened and Endangered Species
National Wilderness Areas
Class 1 and Class 2 Wetlands (VSWI and advisory layers)
Protected Conservation Lands (2019)

ACRPC 6/2019

0 0.5 1 2 Miles



Addison County
REGIONAL PLANNING COMMISSION

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