



About Us

Jens Hilke — Conservation Planner





The Vermont Fish & Wildlife Department

The mission of the Vermont Fish & Wildlife Department is the conservation of our fish, wildlife, plants and their habitats for the people of Vermont





What We Conserve



Natural Communities



Fish



Habitat



Invertebrates



Wildlife



Plants





Who We Serve



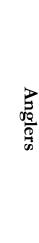
Wildlife Watchers



Future Generations



ations





Communities

Hunters and Trappers



Landowners





Community Wildlife Program



Presentations & Workshops



Support for Planning



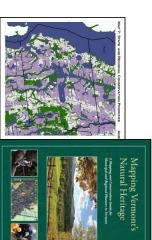
Support for Conservation



Connecting Communities to Each Other

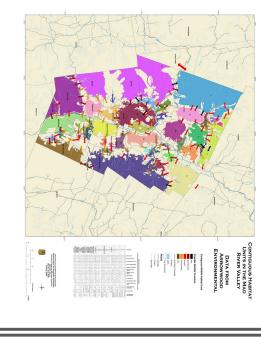


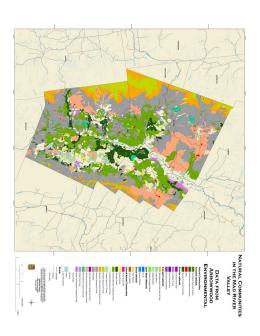
Understanding Ecological and Community Context

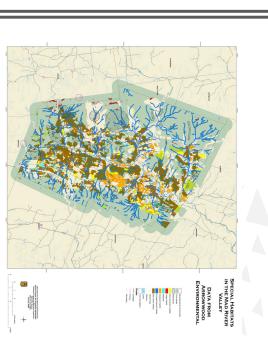


Creation/Interpretation of Resources









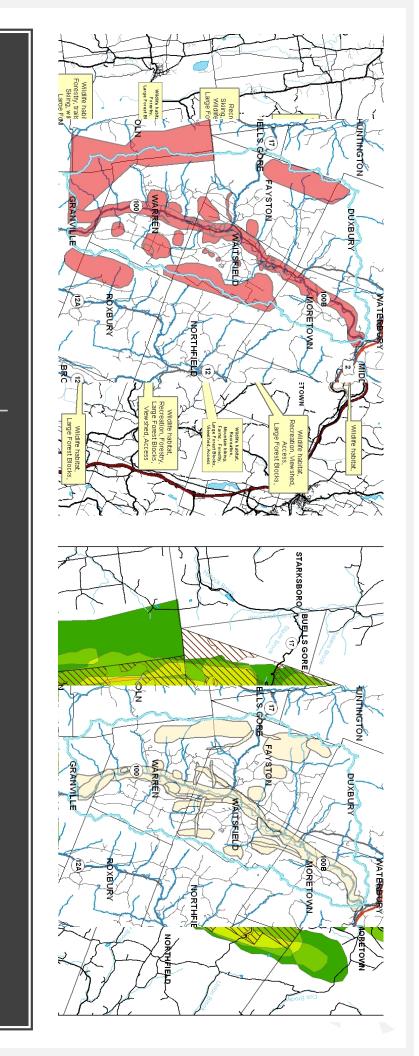
Arrowwood Inventory

Forest Wildlife & Communities Project 2010-2013

- Community Values mapping
- **Buildout Analysis**
- Ecological Conservation Focus Areas
- Tiered Ecological Priorities

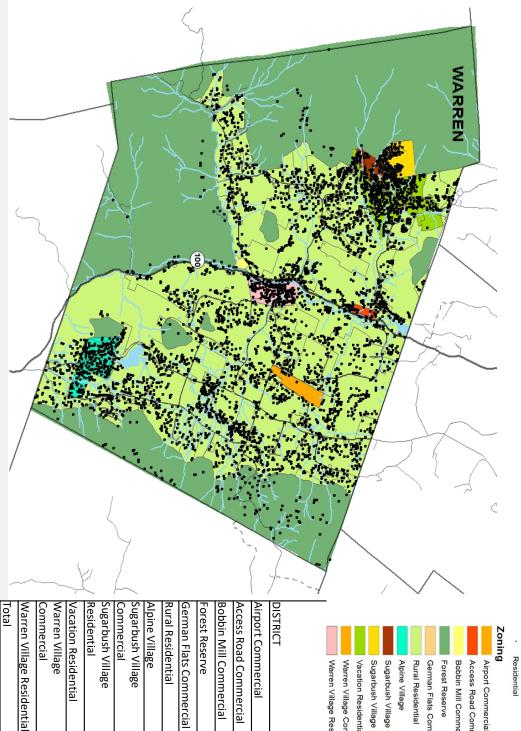






Community Values

Maximum Buildout



Potential New Units · Residential

- Existing Buildings

 Commercial / Industrial
- Residential

Zoning

2,459		147				POTUNIT		mercial	_	esidential	ommercial			nercial		cial	ercial	
Residential	an Flats Commercial	t Reserve	in Mill Commercial	s Road Commercial	rt Commercial	RICT	Warren Village Residential	Warren Village Commercial	Vacation Residential	Sugarbush Village Residential	Sugarbush Village Commercial	Alpine Village	Rural Residential	German Flats Commercial	Forest Reserve	Bobbin Mill Commercial	Access Road Commercial	Airport Commercial



374 470

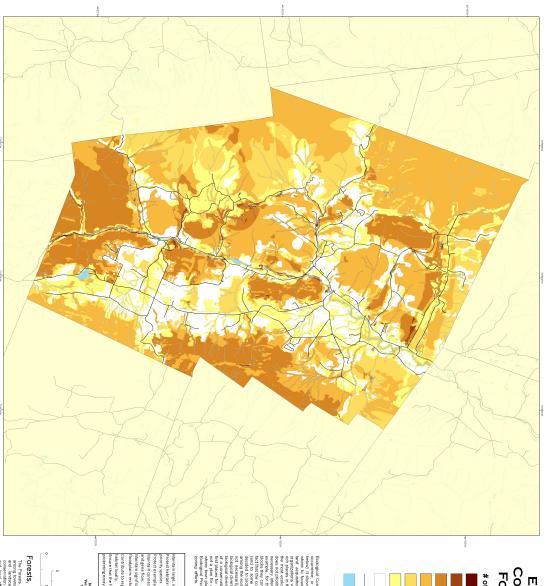
3,695

Seven Ecological Principles

- Maintain large, intact patches of native vegetation.
- 2 Protect habitats that are key to the distribution and abundance of priority species (identified in the 2006 Vermont Wildlife Action Plan).
- 3. Protect exemplary natural communities and aquatic features.
- Maintain connections among wildlife habitats for species movement and gene flow.
- 5 groundwater and filtering surface water). Maintain significant ecological processes (such as wetlands and floodplains recharging
- 6 Contribute to regional persistence of rare species by protecting their habitat locally
- that are poorly represented in the landscape Ensure that the full range of native biological diversity is maintained by protecting ecosystems



Ecological Conservation **Focus Areas**



ECOLOGICAL CONSERVATION FOCUS AREAS

of principles/unit area

6 More Overlapping Principles found in Same Area



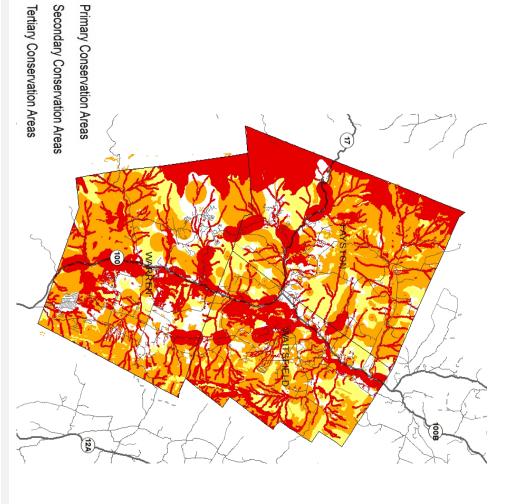
Roads

Lakes Streams

nplary natural communities and aquatic features inections among wildlife habitats for species movemen

Forests, Wildlife & Communities Project

Tiered Ecological Priorities



For Planning Commissions & DRBs to identify levels of ecological priorities

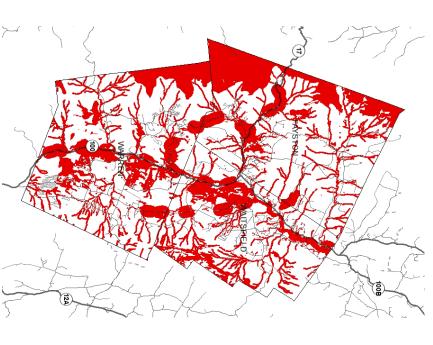
on Areas	Acres 23,579	% of three town area	% of this conservation class NOT NOT DEVELOPABLE under towns' current zoning and regulation 75.16%
	24,841	37.87%	57.07%
on Areas	9.100	13.87%	62.29%

Primary Conservation Area

Primary Conservation Areas

- Rare, Threatened, & Endangered species element occurrences
- Wetlands & Streams (with 50' buffers)
- Bat hibernacula with 300' buffer
- All lands over 2700' for bicknells thrush
- Riparian habitats
- Vernal pool with 100' buffer
- FEMA 100yr floodplain
- Fluvial erosion hazard zone
- S1,S2 S3 natural communities and other locally significant Natural Communities that have a small or large patch size
- Road crossings that occur on rt 100, rt 17, German Flats Rd, East Warren Rd, and Sugarbush access rd
- ullet All lands with natural cover (using 2006 CCAP) within 1/4 mile of the above significant road crossings

Primary Conservation Area



Primary Conservation Areas

•35.95% of 3 town area
•75.16% of PCA already
protected under
current zoning &
regs



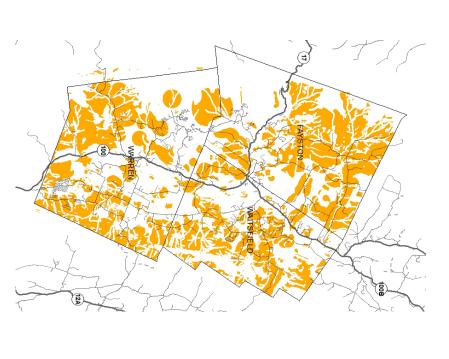
Secondary Conservation Areas

Secondary Conservation Areas (EXCLUDES ALL LANDS Covered in Primary Conservation Areas)

- •Vernal pools with 600' buffer
- Early Successional Habitats (
- Ledges
- Grassland
- Locally significant natural communities and NOT included in No patch size) Touch (=S4 and S5 Natural communities or ones with Matrix
- Road crossings that are NOT included in No touch (= road crossings on smaller roads with less vehicle traffic)
- •All lands with natural cover (using 2006 CCAP) within 1/4 mile of the above road crossings



Secondary Conservation Areas



Secondary Conservation Areas

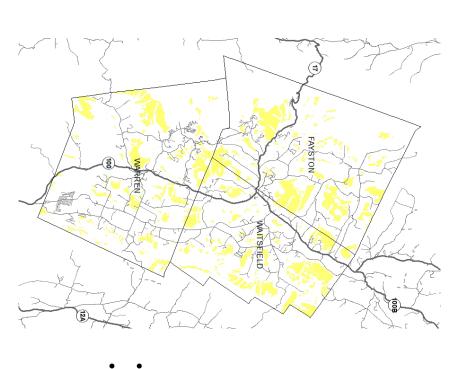
- 37 % of 3 town area
- 57% of SCA already protected under

regs

current zoning &



Tertiary Conservation Areas



Tertiary Conservation Areas

Tertiary Conservation Areas (EXCLUDES ALL LANDS Covered in Primary & Secondary Conservation Areas)

- All land included in a contiguous Habitat Unit (of any size)
- 13 % of 3 town area
- 62% of TCA already protected under current zoning & regs



Planning Provisions of Act 171

"manage Vermont's forestlands so as to maintain and improve forest blocks and habitat connectors."

Requires town and regional plans to:

- Identify important areas forest blocks and habitat connectors,
- plan for land development in those areas to minimize forest fragmentation



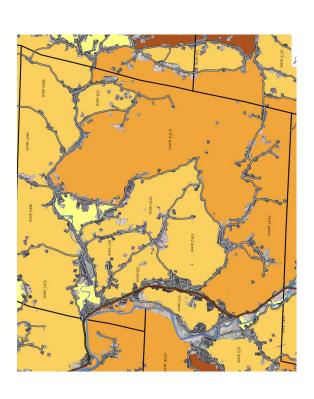
A. Blake Gardner

Map Required

For municipalities that choose to plan, Chapter 117, (24 V.S.A. §4382), requires the plan include 12 elements, many forest blocks and habitat connectors. related to natural resources. Municipal Plans adopted after January 1, 2018 must now include a map that identifies

2 - A land use plan, which shall consist of a map and statement of present and prospective land uses, that:

(A) Indicates those areas proposed for forests, recreation, agriculture (using the agricultural lands identification process established in 6 V.S.A. § 8), residence, commerce, industry, public and semi-public uses, and open spaces, areas reserved for flood plain, and areas identified by the State, the regional planning commission, or the municipality that require special consideration for aquifer protection; for wetland protection; for the maintenance of forest blocks, wildlife habitat, and habitat connectors; or for other conservation purposes.



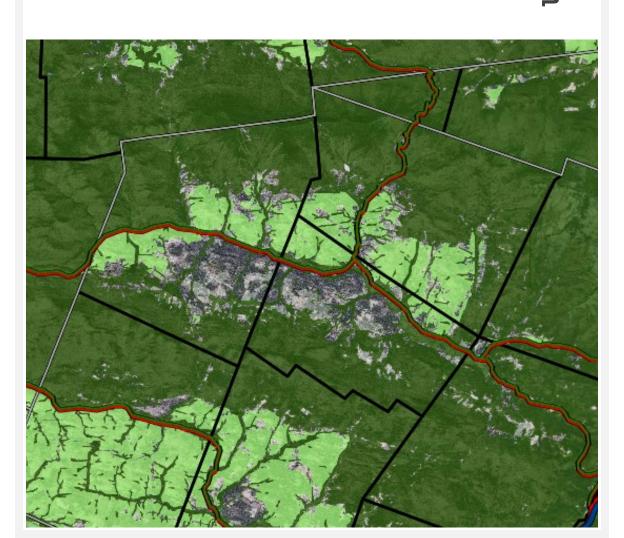


Vermont Conservation Design

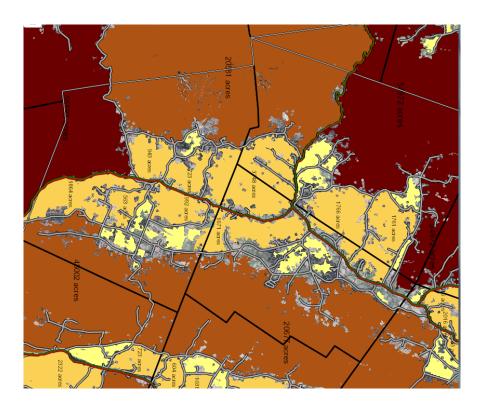


biofinder.vt.gov/

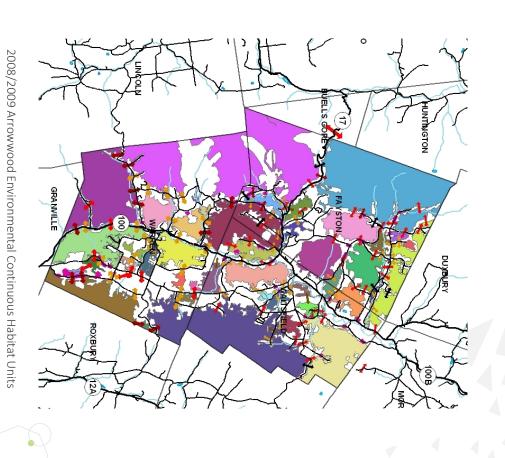
Accessible to everyone!



Forest Blocks



2011 Vermont Fish & Wildlife Department Habitat Blocks

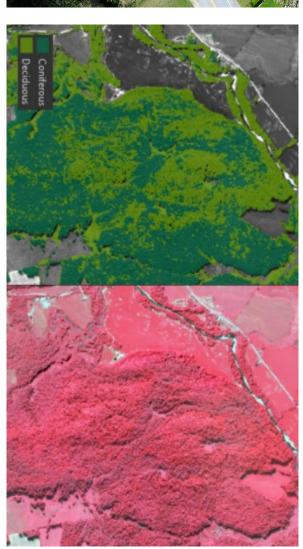


More Recent Data

Flood Resilience

2020 Forest Cover







Warren follow-up Inventories

• 2014 Warren Wildlife Corridor Analysis

5 sites - tracking within ROW and Game Cameras

2015-2017 Warren Corridor Conservation Area

Recommendations 2016 Corridor Inventory & Assessment

Three additional Crossing areas

2019 Corridor Regulation Research

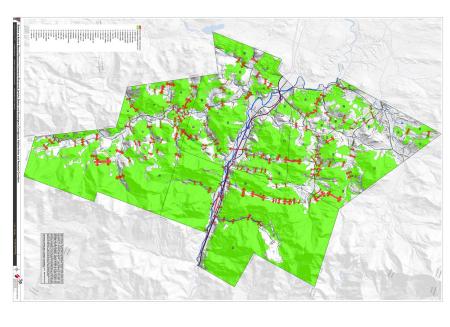
2018 Wildlife Corridor Analysis

(Top Gas Parcel) 2017 Wildlife Movement Patters & use



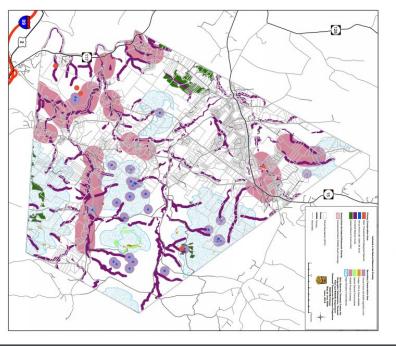


Jericho Overlay District



2014 Arrowwood Inventory

JERICHO'S NATURAL RESOURCES OVERLAY DISTRICT 2018



2018 NR Overlay District







How you can support conservation in Vermont



Vermont Habitat Stamp



Nongame Wildlife Fund

http://vtfishandwildlife.com/donate



