Measuring Municipal Land Use Approaches for Maintaining Forests and Wildlife



Agenda

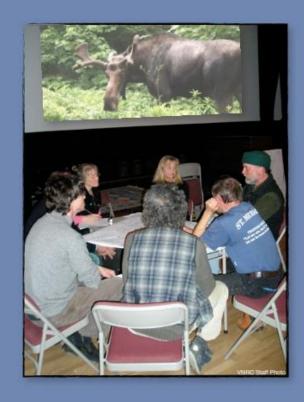
- Project History & Methods
- Town Plan Review Results
- Bylaw Review Results
- Key Findings & Recommendations





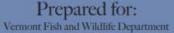
Project History

- Statewide review every 10 years: 2000, 2011, 2021
- Complete Review of Town Plans, Zoning, and Subdivision Bylaws
- Sets direction for technical assistance by providers.



Wildlife Considerations in Local Planning
An Evaluation of a Decade of Progress in Vermont







Methods



235 TOWN PLANS



207 BYLAWS



145 SUBDIVISION REGULATIONS

Overview of Metrics With A Wildlife Focus

Town Plan Analysis

- Plan & Municipal Governance Info
- Data Types
 - Federal / State / Local
- Mapping and Inventory
- Habitat Elements
 - Wetland, Grassland, Forest, Nat. Communities, etc.
- Habitat Concepts
 - Public value of habitat & access
- Species and Ecological Concepts
- Act 171/Forest Blocks and Connectivity
- Climate Change and Landscape Resilience
- Partnerships
- Non-Regulatory Policies
- Regulatory Policies

Zoning Analysis

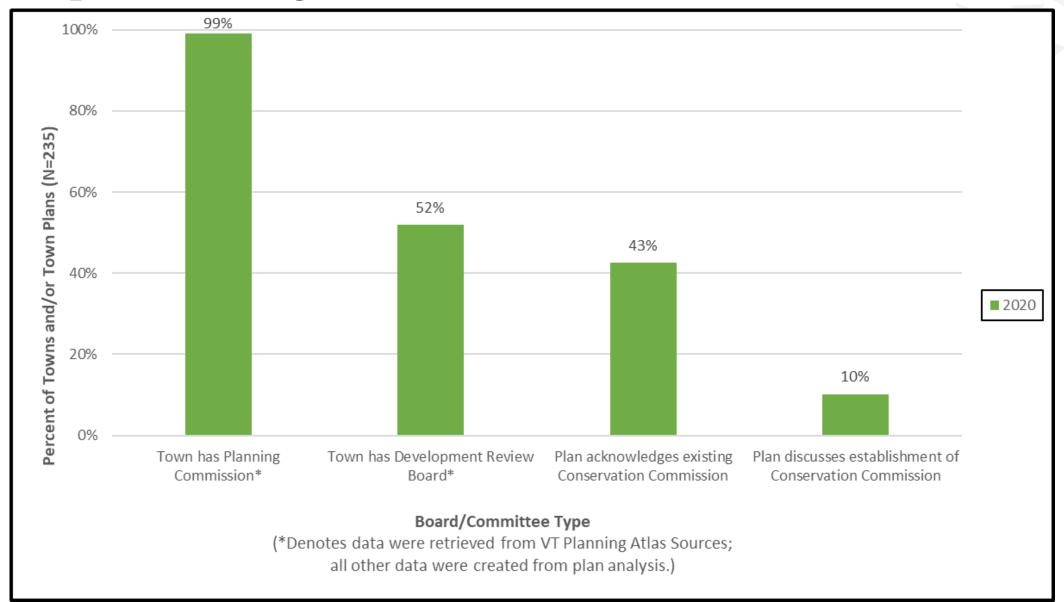
- Zoning Regulations
- Zoning District Types
- General Use Standards
- Conditional Use Standards
- Development Review Standards
- Clustering and Open Space (PRD/PUD)
- Shoreland and Riparian Buffers
- Consultation and Inventory

Subdivision Analysis

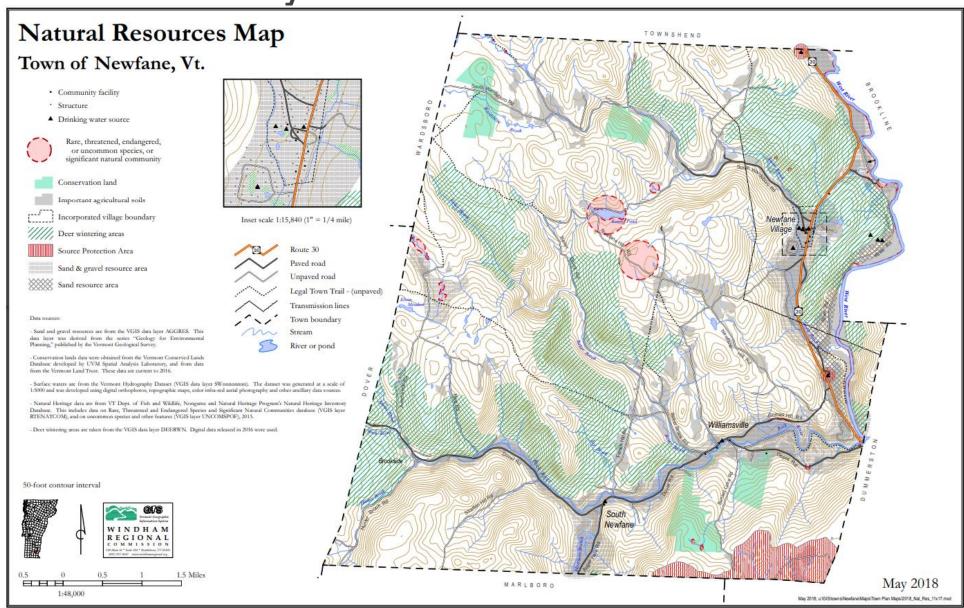
- Planning Standards
- Mapping and Inventory Requirements
- Address Fragmentation



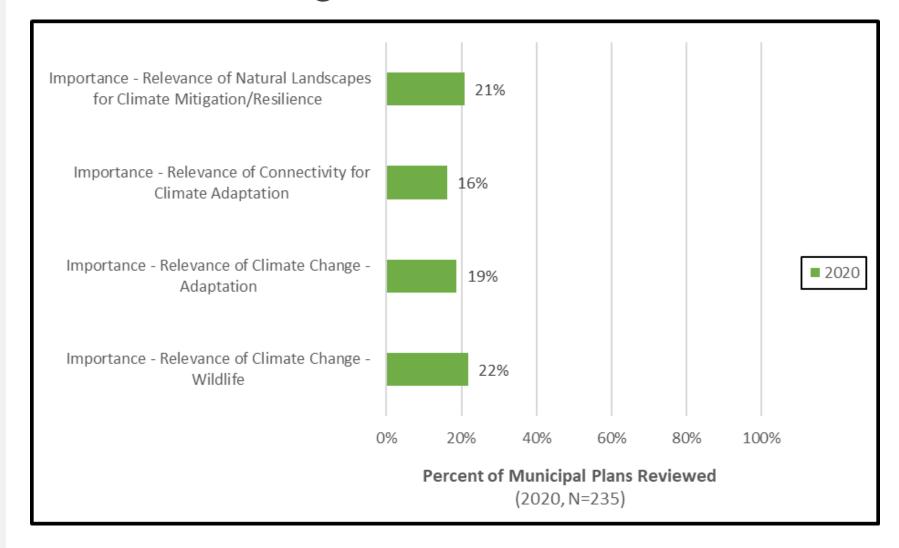
Municipal Planning Structure

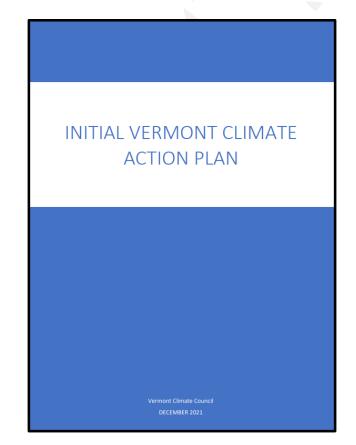


Habitat & Inventory Data



Climate Change





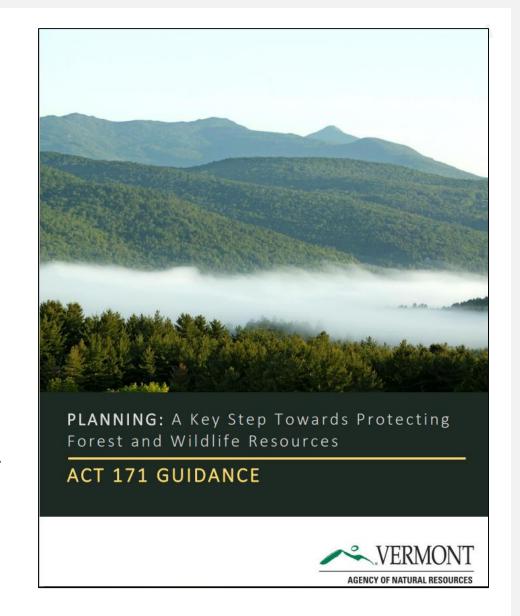
In 2009, only 2% of town plans recognized climate change.



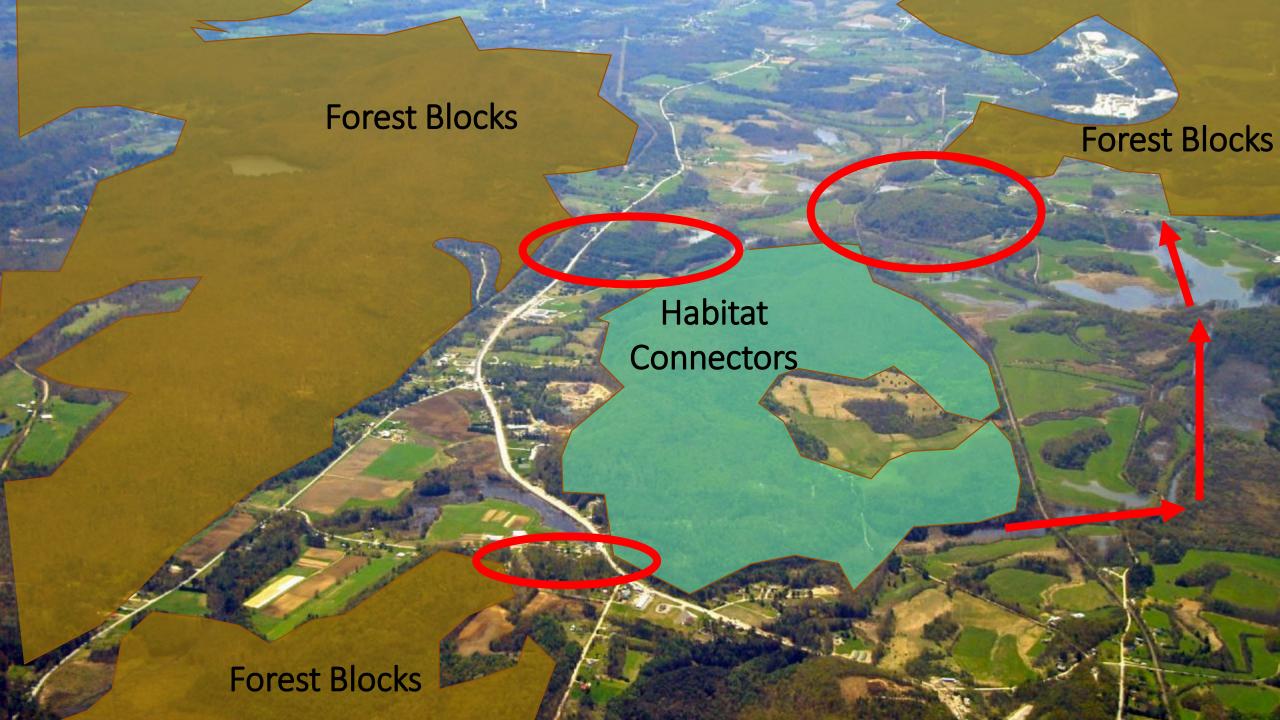
Act 171 Forest Integrity Planning

Requires town and regional plans to:

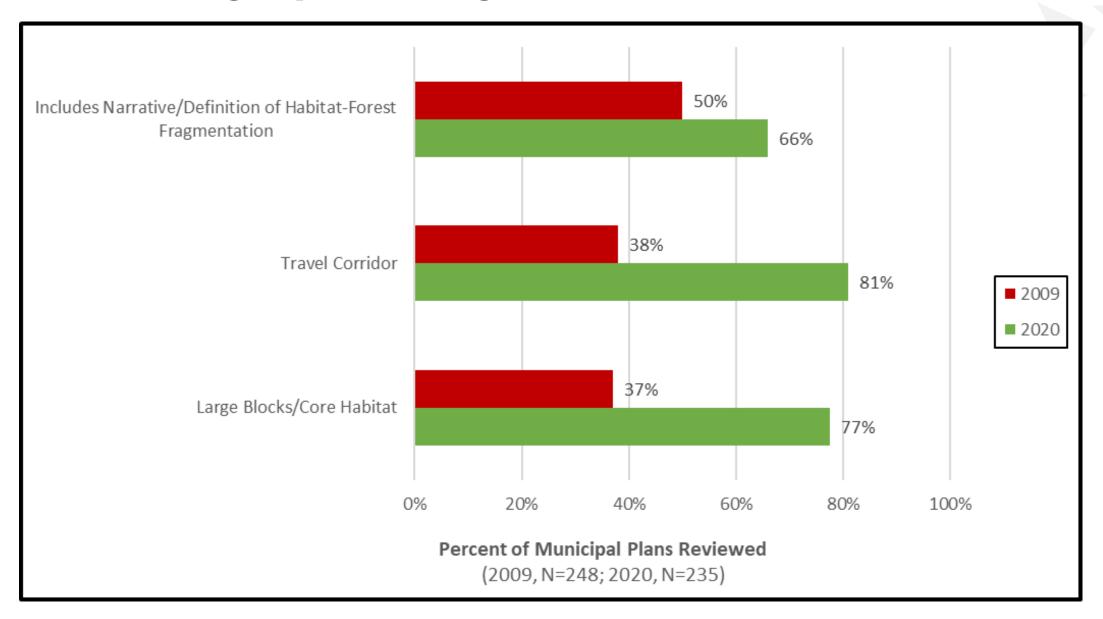
- Indicate those areas that are important as forest blocks and habitat connectors.
- Plan for land development in those areas to minimize forest fragmentation and promote the health, viability, and ecological function of forests.







Forest Integrity Planning



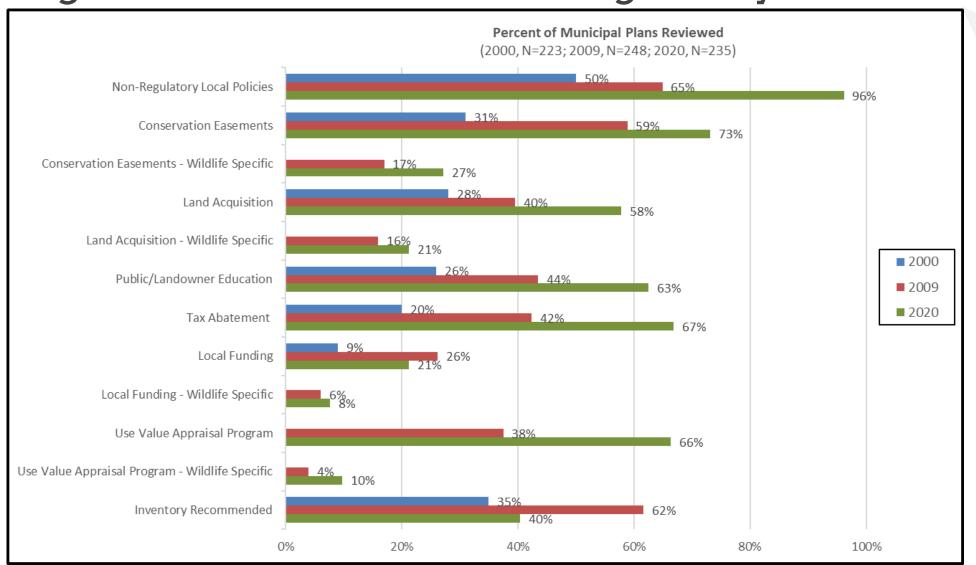


Act 171 Implementation



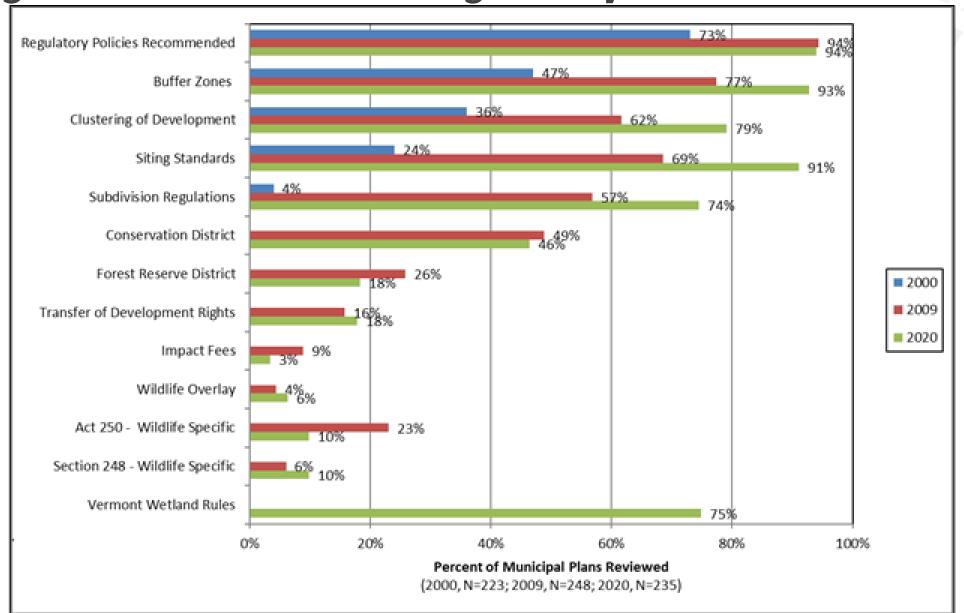


Strategies Recommended: Non-Regulatory



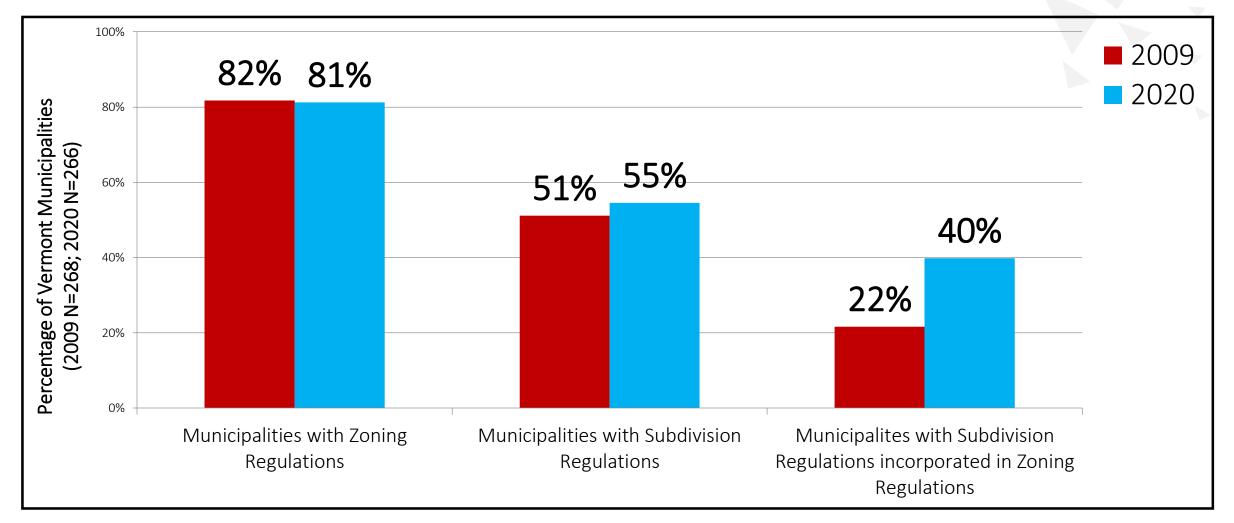


Strategies Recommended: Regulatory



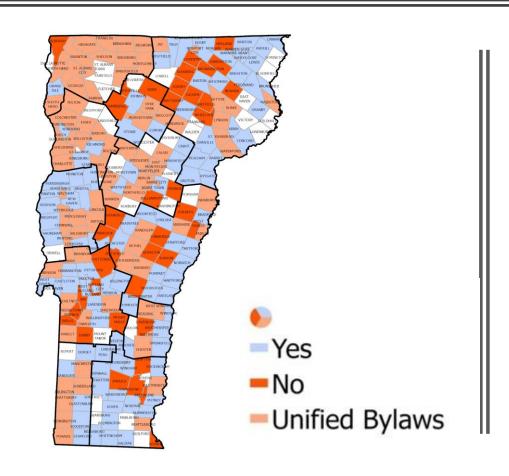


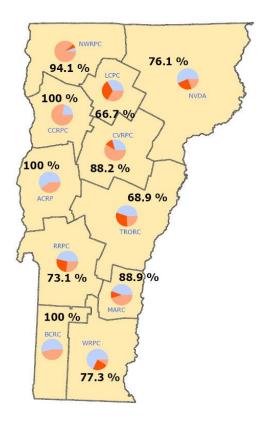
Land Use Regulations





Towns with Zoning





Zoning District Efficacy

	Conservation District	Forest Reserve District	Water Resource District	Natural Resources Overlay District	Wildlife Overlay District	Fluvial Erosion/ River Hazard District	Rural / Ag. / Resource / Res. District	Residential District	Open Space District
Percentage of towns where district exists*	44%	25%	11%	3%	4%	14%	82%	80%	16%
District has specific wildlife review**	19%	23%	9%	83%	63%	0%	6%	4%	15%
District has fragmentation standards**	10%	31%	0%	50%	50%	0%	4%	4%	15%

^{*}Percent of Towns with Zoning Regulations



^{**}Percent of Towns with District

Development Review Standards

General Use Standards: Apply to most/all development regardless of the zoning district.

• Example: Surface Water Protection: To prevent soil erosion, protect wildlife habitat and maintain water quality, a naturally vegetated buffer strip shall be maintained ...

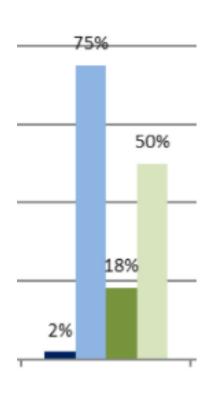
Conditional Use Standards: Evaluate certain land uses with an additional level of review within certain zoning districts or areas.

• Example: Single-family residence in a Forest Reserve District must demonstrate it will not result in an undue adverse impact on the character of the area affected.

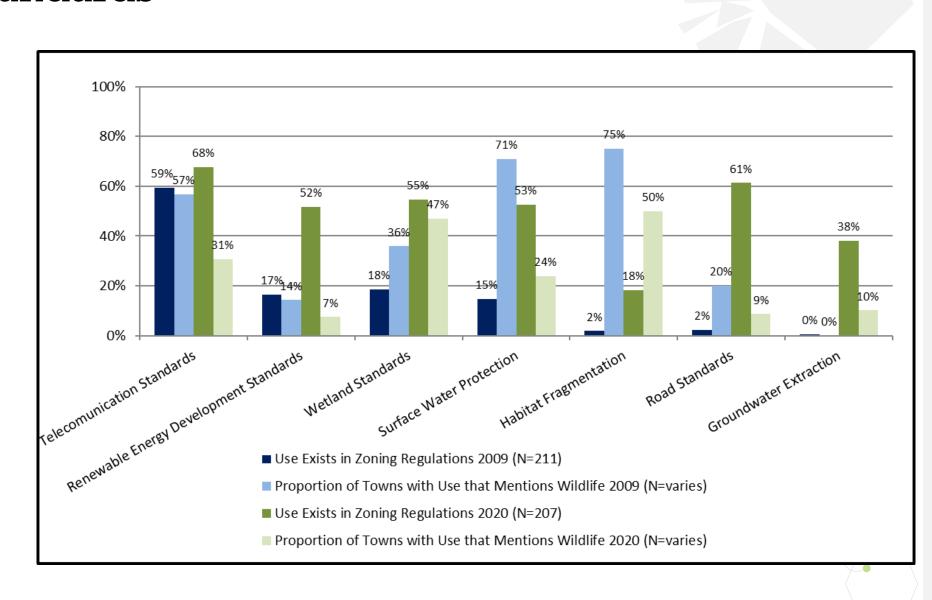
Site Plan Requirement Standards: Apply to site layout and development design.

• Example: Protection of Natural Resources: The land to be developed will be able to support the intended use without undue adverse impacts to significant natural features (e.g. wetlands, wildlife habitat, steep slopes) as determined from the town plan or through site analysis.

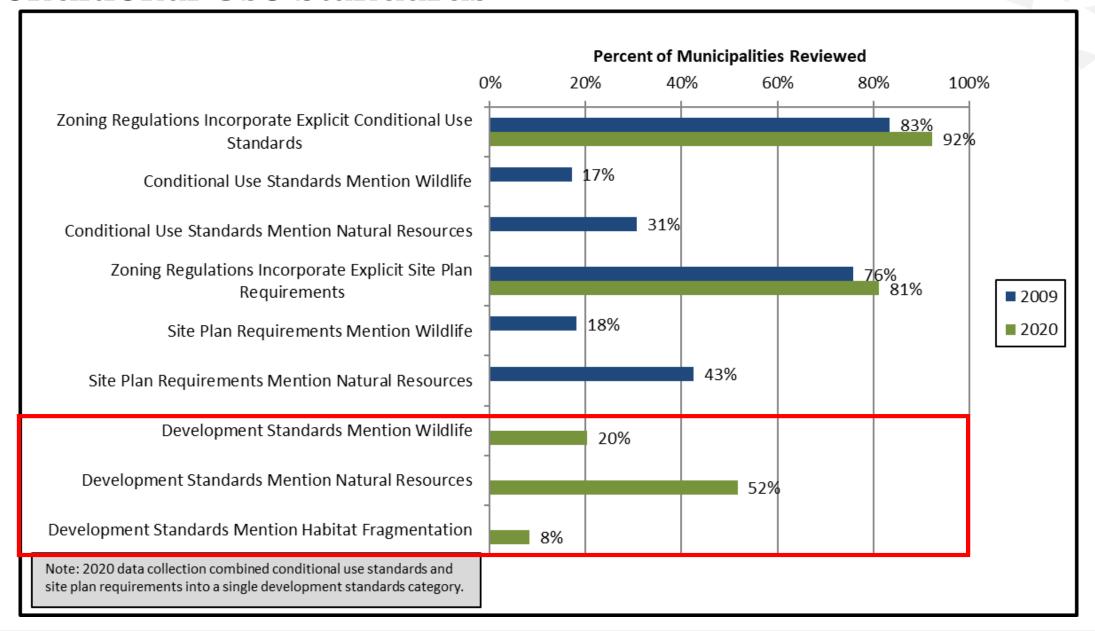
General Use Standards



Habitat Fragmentation

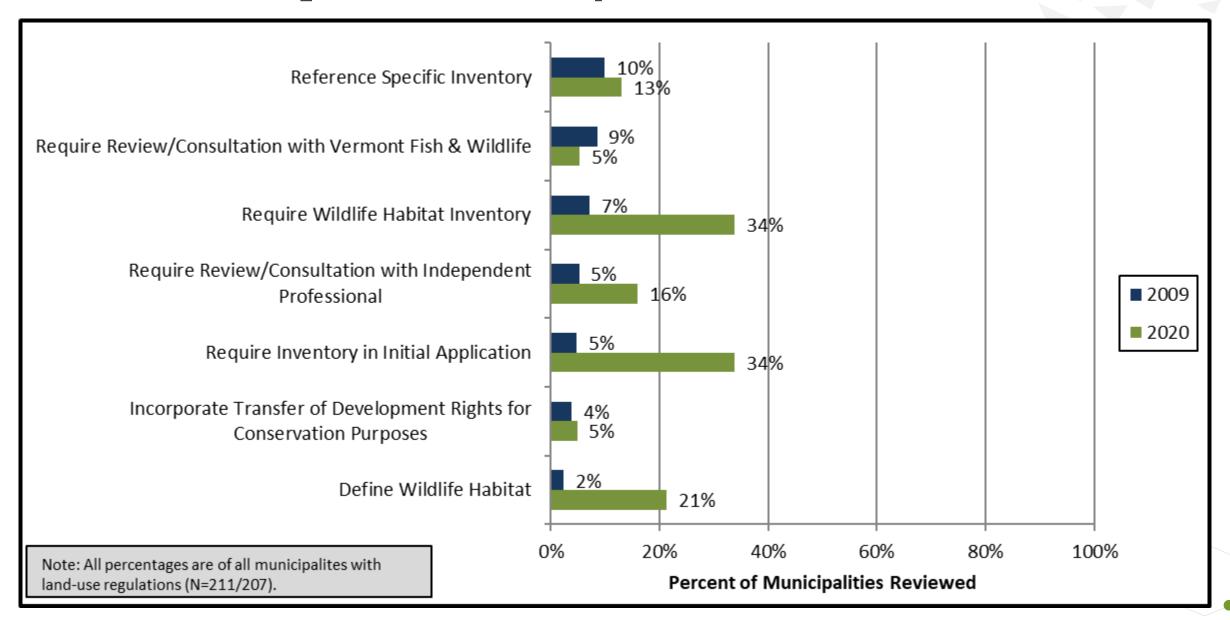


Conditional Use Standards

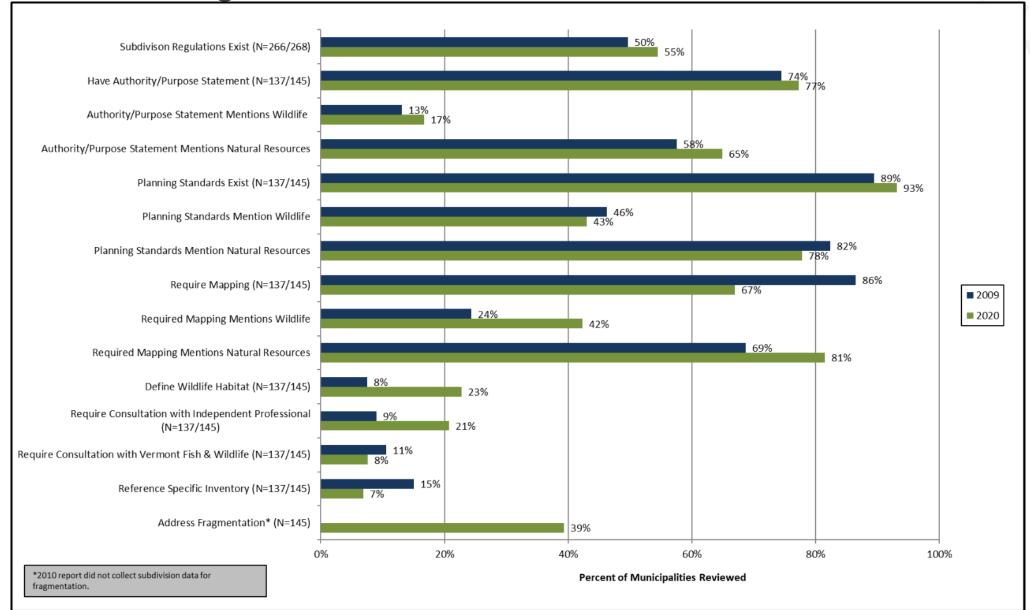




Additional Requirements in Bylaws



Subdivision Regulations

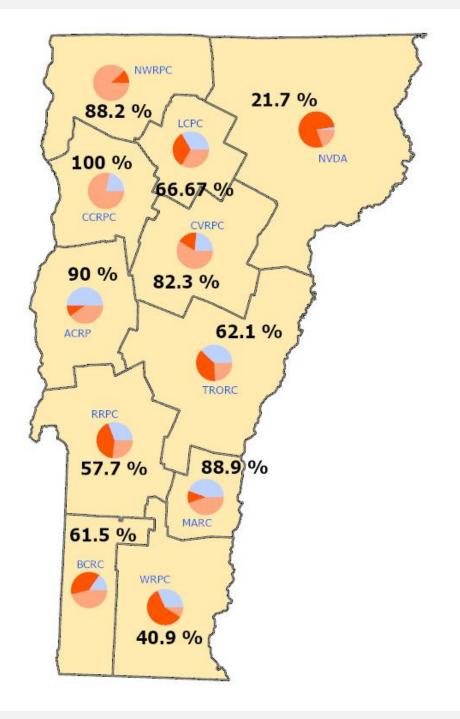




Subdivision Regulations

Town has Subdivision

- •
- Yes
- ■No
- Unified Bylaws





Key Findings

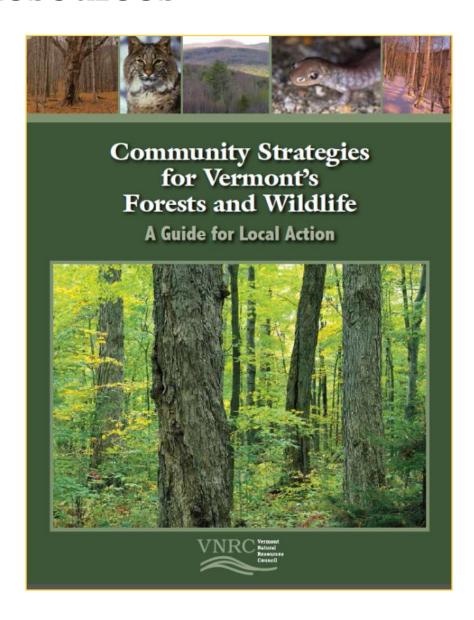
- Proactive planning is occurring at the municipal level for many wildlife related metrics.
- Town plans strongly recognize the value of non-regulatory and regulatory strategies.
- Increasing number of municipalities have identified forest blocks and travel corridors.
- There is a gap in planning to address climate change and impacts to wildlife/natural environment.
- Municipalities are employing strategies to shape how development occurs.
 - Municipalities are increasingly using siting and general use standards to shape development.
 - 74% of municipalities recommend subdivision regulations, but implementation is lagging (55%).
- Conservation districts are popular and many mention wildlife broadly.
 - Wildlife and natural resource overlay districts are the strongest in reviewing wildlife and fragmentation impacts; however, they make up a small percentage of conservation districts.
 - Overall, low percentage include specific standards to address wildlife impacts and fragmentation.
- Residential development, by and large, occurs in residential-oriented districts; however, only 9% mention wildlife, and only 4% have fragmentation standards.

Recommendations

- Support/fund efforts to translate science to planning.
- Support technical assistance to integrate existing data, and new data from local inventories, into town plans and development review regulations.
- Continue to implement Act 171 for forest blocks/connectivity.
- Improve policies to address climate change.
- Improve specificity about what to protect (include definitions).
 - Be aware of J.A.M. Golf and need for clear regulations.
- Transition town plan support for regulatory action into meaningful policies.
- Provide technical assistance to municipalities to strengthen development review standards that address wildlife impacts, and the fragmentation of habitat.



Resources



Wildlife Considerations Report

Coming Soon!

Jamey Fidel

Vermont Natural Resources Council Jfidel@vnrc.org

Andy Wood

Vermont Fish & Wildlife Department <u>Andrew.Wood@Vermont.gov</u>

Jens Hilke

Vermont Fish & Wildlife Department Jens.Hilke@Vermont.gov











The Adelard A. and Valeda Lea Roy Foundation









Engaging Vermonters in their changing landscape