

STR & FFORD Regional Planning Commission



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RESILENT LAND USE Do GUIDE FOR NH

CAW Talks | June 23, 2022

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Overview

- Background & Purpose
- Guide Overview
- Model Regulations Review
- Which Regulations Are Right for You?
- Adding to the Guide



Resilient Land Use Guide for NH –

Adapting to Climate Change & Coastal Hazards

- Develop set of land use model regulations that incorporate the best practices and updated information to help municipalities adapt to climate change and coastal hazards.
- A partnership between:

Rockingham Planning Commission
Strafford Regional Planning Commission
NH DES Coastal Program
NH BEA Office of Planning & Development
NH Coastal Adaptation Workgroup
17 NH coastal municipalities



NEW HAMPSHIRE COASTAL LAND USE GUIDE

RESILIENT LAND USE D GUIDE FOR NH



RESILIENT LAND USE D GUIDE FOR NH

Background

- Develop a user-friendly coastal land use guide to inform local decision makers about land use regulations that can mitigate climate change impacts and increase the resiliency of the coastal region. New Hampshire.
- Address a range of climate resilience and adaptation priorities, challenges, and opportunities with customizable products, case studies, and direct technical assistance.



- Purpose, Audience, and Goals
- Legal Authority
- How to Adopt the Regulations
- How to Use the Guide
- Where Are You Located?
- Case Studies
- Model Regulations
- Resources & References



- Purpose, Audience, and Goals
- Legal Authority
- How to Adopt the Regulations



ADOPTING THESE REGULATIONS: LEGAL AUTHORITY AND PROCESS FOR ADOPTING REGULATIONS

BACKGROUND

The State of New Hampshire adopted RSA 674:21 in 1983, authorizing innovative land use controls to deal with complex planning issues ranging from coastal flood regulations to impact fees. These land use controls are drafted and adopted with the goal of enhancing sustainable development and planning practices. RSA 674:21 provides municipalities with the authority to adopt, administer and enforce innovative land use controls. As stated in the statute, an adopted innovative land use control "may be required when supported by the master plan and shall contain within it the standards which shall guide the person or board which administer innovative land use controls. While this guide provides model ordinances and regulations that communities can base their adopted language on, zoning must be adopted according to RSA 674:18; communities must have adopted the mandatory sections of the master plan and must have an established planning board that has been granted authority by the legislative body to regulate subdivisions and site plans. This section of the guide provides an overview of the various ways communities can adopt, administer, and enforce regulations based on the desired outcome.

ADOPTION

Municipalities have the flexibility to adopt innovative land use controls as amendments to their zoning ordinance, site plan regulations or subdivision regulations. Depending on the desired outcome, communities should consider the various impacts of adopting innovative land use controls via zoning, subdivision, or site plan. Zoning ordinances are adopted by the local legislative body. The local legislative body, depending on the municipality, could be town meeting, town council/city council, or board or mayor and alderman. Subdivision and site plan regulations are adopted by the planning board. While the adoption process differs, the ability to grant relief from standards also varies between zoning ordinances and site plan or subdivision (BEA, 2021).

ZONING ORDINANCE

Zoning is utilized to regulate the size, location and use of buildings and other structures for the purpose of promoting the health, safety, and general welfare of the community. A zoning ordinance may be enacted by ballot vote of a majority of the voters present and voting at the annual or special town meeting, though in the case of a properly filed protest petition that meets the requirements of state law, the majority needed to for an affirmative vote may be increased to a two-thirds vote. Municipalities that have a town council or city council will have town charter provisions that provide the procedures required for enacting and amendment zoning (BEA, 2021).

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MANAGEMENT **STORMWATER**

IMPERVIOUS SURFACE REDUCTION

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LOCATIONS:

3 Coastal Communities Freshwater Shorelands Storm Surge Impacted Areas

- **Tidal Waters** 3 Surface Waters
- 3 Flood Zones

COMMUNITY GOAL REGULATIONS:

Open Space Protection Flood Protection Drinking Water Protection Environmental Protection

- D **Tidal Waters**
- Surface Waters Stormwater Management
- Mater Quality Protection

BACKGROUND & PURPOSE

Inland Communities Groundwater Resources

- Projected Sea-Level Rise Impacted Areas
- Entire Community Coastal Zone Designated Communities
- Locally Designated Areas and Districts

2 Infrastructure Protection

- Economic Development
- Community Design & Aesthetics
- 2

Coastal Watershed Communities

- Transportation Enhancement
- **Community Equity**

- individual sites.

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As little as 10 percent impervious cover in a watershed can result in water quality degradation (Center for Watershed Protection). Within the Piscatagua Region Watershed only nine of the 52 municipalities (including 10 municipalities in Maine) have impervious coverage of less than 10 percent (Piscatagua Region Estuaries Partnership, 2020).

Development Requirements Impervious Surface Reduction*

REGULATION OPTIONS:

* Denotes current section

WHY ADOPT THESE REGULATIONS?

- Increase protection of water resources
- Reduce flood potential across the entire community.
- Improve aesthetics and development design by maintaining open spaces
- Improved legal justification for existing regulations that limit development on
- Recreation Options

Historic and Cultural Preservation

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50 Locally Designated Areas and Districts

Projected Sea-Level Rise Impacted Areas

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Stormwater impacts can be dealt with through treatment, by reducing the sources of stormwater, or by preventing the source of stormwater altogether. These regulations focus on the reduction and prevention of stormwater by reducing or eliminating impervious surfaces. There are several benefits to communities when reducing impervious surfaces beyond prevention stormwater runoff. These benefits include increased open spaces, enhanced drinking water protection, reduced infrastructure maintenance cost, and improved community aesthetics.

NOTES AND EXPLANATIONS

MODEL LANGUAGE

REGULATION LANGUAGE

The following requirements definition sectio. uage is recommended to be incorporated into existing zoning districts as a part of the general for those districts. Definitions are recommended to be incorporated either within the general zoning

General Definitions Section.

Lot, Coverage: Areas of a lot that include buildings, parking areas, vehicular drives, pavement and any other man-made structures and surfaces that are impervious to water. All surfaces deemed to be impervious surface shall be used when calculating lot coverage area.¹

Impervious Surface: A modified surface, that cannot effectively absorb or infiltrate water, including, but not limited to, structures, roofs, decks, patios, paved asphalt, concrete driveways, paved gravel or crushed stone driveways, parking areas, and walkways, unless designed to absorb or infiltrate water.²

District Impervious Surface Coverage Limits

Purpose: The purpose of limiting impervious surface coverage is to provide reasonable protection local natural resources from degradation and prevent adverse impacts from stormwater runoff to adjacent and downstream land, property, facilities, and infrastructure. Additionally, limitations help to ensure adequate space for water and wastewater infrastructure, encourage open spaces, maintain community characteristics and to minimize climate change and sea level rise impacts.

Residential District (without sewer)³ Lots Less than 2 Acres -Maximum Lot Coverage 30% Lots Greater than 2 Acres – Maximum Lot Coverage: 20%

- Definitions are intended to be located either within general zoning definition section or within zoning section describing dimensional requirements of lots within existing zoning districts.
- The definition of impervious surface should be reviewed with existing definitions, often within groundwater ordinances. Within specific regulations the definition of impervious surface may be more specific if worded such that the definition applies only to the standards within that specific regulation.

Lot coverage limits are the limits for the entire lot. All limitations for development and uses within setbacks, wetland districts, aquifer districts, village districts, etc. will still apply.

3. Lot coverage limits should be evaluated based on location and zoning, existing density, and risk tolerance for flooding.

Municipalities may choose to vary lot coverage limits for smaller lots by conducting analysis of existing lot impervious coverage versus lot size. The intent would be to understand the number lots that may become non-conforming under the proposed standard.

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Residential District (with sewer)

Lots Less than 0.25 Acres – Maximum Lot Coverage 50% Lots Less than 1 Acres - Maximum Lot Coverage 30-50% Lots Greater than 1 Acres – Maximum Lot Coverage: 30%

Commercial or Mixed -Use District⁴

Maximum Lot Coverage – 50% for existing lots of record as of {date of adoption} and 40% for lots of record created subsequently.

WHERE DO THESE REGULATIONS GO?

The regulation language offered in this model is intended to be in addition to the <u>Southeast Watershed Alliance (SWA) Post</u> <u>Construction Stormwater Management Standards</u>. Most municipalities that have adopted the SWA model language have included them within site plan and subdivision regulations, however, the model language can also be located within zoning ordinances. The additional language offered in this model can be inserted into either site plan/subdivision regulations or zoning ordinances. To assess risk, municipalities can use the the <u>Coastal Flood Risk Summary: Part 2 Guidance for</u> <u>Using Scientific Projections</u>, Step 1 as guidance. For mapping assistance, the New Hampshire Sea-Level Rise, Storm Surge, and Groundwater Rise Mapper (Sea-Level Rise Mapper) is available to provide easy access to future coastal inundation scenarios. (New Hampshire GRANIT) ACCESS THE MAPPER: www.tinyurl.com/slrmapper

 Lot coverage limits on impervious surface do not specifically limit the ability to develop a site, but instead encourage the use of Low Impact Development (LID) techniques, including green roofs, pervious asphalt, and bio retention swales. Many of these LID techniques are required as part of municipal stormwater management requirements for commercial and multifamily developments. See Stormwater Management: Development Requirements for additional options for stormwater management requirements at the site-specific level.

HOW TO ADOPT THESE REGULATIONS:

Amendments to zoning ordinances require a majority vote at town meeting or by city/town council depending on the municipal form of government.

Additional information about the process of adopting regulations is available in the Process for Adopting Regulations section of this Guide.

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SUGGESTED SUPPLEMENTARY INFORMATION AND RESOURCES TO COMPLEMENT THESE REGULATIONS:

Recommendation	Туре	Details
Zoning Map with base zoning districts	Maps/GIS Data	Find in local Zoning Ordinance
Parcel Map	Maps/GIS Data	Find via Municipal Tax Maps
Sea Level Rise Scenarios	Maps/GIS Data	Reference <u>NH Sea-Level Rise, Storm Surge, and Groundwater</u> <u>Rise Mapper</u>
Impervious Surface Coverage Map	Maps/GIS Data	Access via GRANIT or Regional Planning Commissions
Water Resource and Wetland Map	Maps/GIS Data	Access via <u>GRANIT</u> , Regional Planning Commissions, or Conservation Commission, Master Plan, or Natural Resource Inventory
Water Infrastructure Availability Map	Maps/GIS Data	Find via Public Works Department, Regional Planning Commissions, or Water/Sewer Commission
Zoning Administrator	Personnel	Interprets and administers the regulation
Building Inspector/Code Enforcement Officer	Personnel	Reviews building permits for compliance and enforces regulations.
Conservation Commission	Volunteers	Advises the Planning Board on the location of areas particularly sensitive to the impacts of impervious surfaces such as waterways, wetlands, aquifers, and wildlife habitats.
Planning Board	Volunteers	Approves/denies applications and ensures that the land use applications before them meet municipal regulations.

Stormwater can be treated, reduced, or prevented altogether in several ways. These regulations focus on reduction and prevention of stormwater. Additional approaches for treating and reducing stormwater include:

- Increasing the development design criteria to improve treatment. See Stormwater: Development Standards for suggested language.
- Increasing natural vegetative buffers to wetlands and surface water to help treat stormwater prior to it entering waterways. See the Drinking Water Protection: Surface Buffer Model and Shoreland Protection Model for suggested language.
- Preventing development near waterways and wetlands through conservation easements or deed restrictions.
- Reduce impervious surfaces through changes to requirements to roadways and parking lot design requirements.

WHO HAS ADOPTED THESE REGULATIONS?

Most municipalities in southeastern New Hampshire have limits to the extend any given lot can be developed, but can be improved to better define why. Development limitations can be in the form of lot size, structure setbacks, or dimensional requirements – including impervious surface coverage limitations. These development limits serve many purposes, including maintaining open space, rural characteristics, adequate space for wells and septic systems, etc. When amending or adopting impervious surface coverage limitations it is important to acknowledge the reasons for those limitations to 1) foster support for enacting the regulation, 2) assist residents and landowners in understanding the purpose for the regulation and, 3) to provide justification should the regulation be legally challenged.

ADDITIONAL RESOURCES AND REFERENCES

- <u>New Hampshire Coastal Flood Risk Summary Part 1: Science</u> (2019). University of New Hampshire in partnership with the NH Coastal Flood Risk Science and Technical Advisory Panel and the NH Department of Environmental Services.
- <u>New Hampshire Coastal Flood Risk Summary Part 2: Guidance for Using Scientific Projections</u> (2020). University of New Hampshire in partnership with the NH Coastal Flood Risk Science and Technical Advisory Panel and the NH Department of Environmental Services.

FUTURE INFORMATION NEEDS:

HOW DOES THIS RELATE TO OTHER TOPICS?

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- Preventing development near waterways and wetlands through conservation easements or deed restrictions.
- Reduce impervious surfaces through changes to requirements to roadways and parking lot design requirements.

WHO HAS ADOPTED THESE REGULATIONS?

Most municipalities in southeastern New Hampshire have limits to the extend any given lot can be developed, but can be improved to better define why. Development limitations can be in the form of lot size, structure setbacks, or dimensional requirements – including impervious surface coverage limitations. These development limits serve many purposes, including maintaining open space, rural characteristics, adequate space for wells and septic systems, etc. When amending or adopting impervious surface coverage limitations it is important to acknowledge the reasons for those limitations to 1) foster support for enacting the regulation, 2) assist residents and landowners in understanding the purpose for the regulation and, 3) to provide justification should the regulation be legally challenged.

ADDITIONAL RESOURCES AND REFERENCES

- <u>New Hampshire Coastal Flood Risk Summary Part 1: Science</u> (2019). University of New Hampshire in partnership with the NH Coastal Flood Risk Science and Technical Advisory Panel and the NH Department of Environmental Services.
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FUTURE INFORMATION NEEDS:

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DRAFT

HOW DOES THIS RELATE TO OTHER TOPICS?

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FUTURE INFORMATION NEEDS:

- Purpose, Audience, and Goals
- Legal Authority
- How to Adopt the Regulations
- How to Use the Guide
- Where Are You Located?
- Case Studies
- Model Regulations
- Resources & References

WHERE ARE YOU LOCATED: UNDERSTANDING WHERE REGULATIONS MAY APPLY

MAP 1 - NH COASTAL ZONE PROGRAM

The New Hampshire Coastal Program provides staff assistance and funding to 42 coastal towns and cities as well as other local and regional groups to help protect clean water, restore coastal habitats, and help make communities more resilient to flooding and other natural hazards. The NHCP is one of 34 federally approved coastal programs authorized under the Coastal Zone Management Act and is administered by NHDES. The NH Coastal Program was established under Section 309 of the Coastal Zone Management Act (CZMA), as amended. The program encourages state coastal management programs related to wetlands, coastal hazards, public access, marine debris, cumulative and secondary impacts, special area management plans (SAMPs), ocean/Great Lakes resources, energy and government facility siting, and aquaculture (CZP Map)

WHERE ARE YOU LOCATED: UNDERSTANDING WHERE REGULATIONS MAY APPLY

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DRAFT: WHERE ARE YOU LOCATED: UNDERSTANDING WHERE REGULATIONS MAY APPLY





& Coastal Drainage



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CASE STUDY: CITY OF DOVER & TOWNS OF DURHAM AND LEE, NH

Three unique approaches to improve floodplain management and reduce future flood risk in a changing climate

OVERVIEW

Dover and Durbam are two of New Hampshire's inland coastal communities and home to several tidally influenced rivers that feed into the Great Bay estuary before eventually discharging to the Atlantic Ocean. Lee, while not considered a coastal community, does have several large river systems that flow toward the Bay, including the Oyster River and Lamprev River. As a result of their proximity to the coast Dover and Durham have low-lying areas that are susceptible to coastal flooding from seasonal high tides coastal storms and sea-level rise. In Durham, those areas include the Ovster River and its tributaries; at the confluence of the Oyster River and Little Bay; and along the shores of both Little and Great Bay. In Dover, areas include the Bellamy River; the Piscatagua River; at the confluence of the Cochecho River and the Salmon Falls River; and along the shores of Little Bay. Lee does not have any tidally influenced rivers and therefore is not as vulnerable to potential coastal flooding impacts; however, there are significant portions of the Town located within the floodplain, including along the Oyster, Lamprey, Little, and North Rivers; Beaver and Rollins Brooks; and areas around Wheelwright Pond, As a result, Dover, Durham, a

2



CASE STUDY: CITY OF DOVER & TOWNS OF DURHAM AND LEE. NH

2

Three unique approaches to improve floodplain management and reduce future flood risk in a changing climate

advisory climate change risk areas under different scenarios. Based on these maps, with the close auidance of SRPC, the Town amer

In accordance with the National F have floodplain development regul damages and losses from changing approaches in revising their flood flooding.

in ensuring a resilient future and a

APPROACH TO ADOPTING

FLOODPLAIN ORDINANCE UPDAT

In 2021, Dover, in partnership with existing floodplain regulations to er improve community resilience. This regulations, developed by the NH (

 Prohibiting the construction and fire stations), hospitals

This project was funded, in part, conjunction with the NH Departme

In 2019. SRPC, in partnership with Geosyntec and planning-level potential flood inundation maps usir Lamprey North Little and Oyster Rivers Projection land use changes. The maps included revised inun Data collected for the mapping analysis provided the information, with the following community benefits

```
· Channel characteristics including waterway

    Culvert characteristics including diameter.
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· Bridge characteristics including span width

As part of this effort, planning commission staff als floodplain regulations that included a review of cur potential inundation areas into the ordinance (as o been incorporated).

FLOODPLAIN MAPPING STUDY. TOWN OF LEE

LESSONS LEARNED AND NEXT STEPS

During the update process. Dover considered deve would require applicants that were not two feet ab in the ordinance. The City ultimately decided to no

This project was funded, in part, by NOAA's Offi conjunction with the NH Department of Environme

 Lack of spatial data. Migrating inland, away from the coast, elevation levels become harder to determine, which led to the realization that more sophisticated modeling was needed. Without the spatial data required to map out extended flood levels, new developments would have to be

CASE STUDY: CITY OF DOVER & TOWNS OF DURHAM AND LEE. NH

Three unique approaches to improve floodplain management and reduce future flood risk in a changing climate.

analyzed for flood risk on a case-by-case basis, increasing both financial and labor burdens, and as such deemed not a feasible action at this time a. For the City to reconsider, predictive modeling level data is needed City-wide.

The Town of Lee has yet to adopt the revisions SPRC recommended. This is largely a result of COVID19-related delays. Additional technical assistance is needed to work with the Planning Board to better understand the revisions to ensure they are placed on the FY2022 ballot for Town Meeting.

Additional outcomes include

- Developing specific language that balances flood risk management and cost-effective solutions can increase a community's flood resilience.
- Being first to adopt a new regulation in New Hampshire provides a basis for future flood management action in the region
- Developing proactive measures reduces the need for retroactive planning expenses like flood insurance and helps to educate residents on risk reduction before it is too late to adapt.

GUIDANCE FOR THESE REGULATIONS IN YOUR COMMUNITY

The first step to addressing your community's climate resilience is becoming aware of mitigation opportunities and sharing that knowledge with the public Informed residents who are invited to engage in climate adaptation planning are more likely to understand and accept new projects and policies to better their community

RESOURCES:

- Strafford Regional Planning Commission: http://strafford.org/
- Dover Climate Adaptation Master Plan: https://www.dover.nh.gov/Assets/government/city-operations/2document/planning/masterplan/Climate/Climate Adaptation Chapter Certified.pdf
- Dover Hazard Mitigation Plan: http://strafford.org/uploads/documents/plans/rpc/hazmitplan_dover_2018.pdf
- Durham Hazard Mitigation Plan: http://strafford.org/uploads/documents/plans/rpc/hazmitplan_durham_2017.pdf
- Lee Hazard Mitigation Plan: http://strafford.org/uploads/documents/plans/rpc/hazmitplan_lee_2019.pdf Lee Roodplain Study Estimated Roodplain: http://strafford.org/uploads/maps/lee_inundationmapping/floodplainmodeling_2050_24x36 rs.pdf
- NH Coastal Adaptation Workgroup: https://www.nhcaw.org/
- Piscataqua Region Estuaries Partnership: <u>https://prepestuaries.org/resources/resources-for-towns/</u>
- NH Office of Strategic Initiatives Model Floodplain Ordinances: <u>https://www.nh.gov/osi/planning/programs/fmp/regulations.htm</u>
- NH Coastal Flood Risk Summary Part 1: Science: https://scholars.unh.edu/cgi/viewcontent.cgi?article=1209&context=ersc

This project was funded, in part, by NOAA's Office for Coastal Management under the Coastal Zone Management Act in conjunction with the NH Department of Environmental Services Coastal Program.







Model Regulations

- Stormwater: Impervious surface reduction, and stormwater infrastructure site design requirements
- Drinking Water: Groundwater protection, surface water source buffers, and groundwater intrusion options
- Shoreland Protection: Increasing protections within buffer requirements
- Agriculture: Agricultural subdivision and general provisions
- **Recreation:** Improved site design bike and pedestrian requirements, stormwater reduction design enhancements.
- Coastal Resiliency Project Funding: Off-site mitigation requirements, impact fees, and transfer of development rights regulations.



Model Regulations - Stormwater

- Impervious surface reduction
 - General zoning provision to reduce stormwater runoff
 - Aims to improve water quality, reduce flooding, & improve open space/aesthetics
 - Increase legal justification for existing restrictions i.e. make it easier to enforce!
 - Provides definitions, purpose statement, and recommendations for lot coverage based on use & geography.
 - Ties restriction to sea-level rise risk via Coastal Flood Risk Guidance and stormwater regulations requirements (MS4 Permit).
- Stormwater infrastructure site design requirements
 - Builds upon Southeast Watershed Alliance Model Regulations
 - Spells out incorporating sea-level rise and climate change impact into regulation to increase justification.
 - For coastal communities, includes using Coastal Flood Risk Summary to identify design standards based on stormwater infrastructure 50 year lifecycle.

Model Regulations – Shoreline Protection

- Buffer Requirements
 - Incorporates sea-level rise and climate change impact into regulation to increase justification.
 - Incorporates the use of increasing buffer protections for different uses, including future flood risk, outlined in the Buffers on the Bay project.
 - For coastal communities, includes using the using Coastal Flood Risk Summary and SLAMM model to identify areas of potential increase buffer requirements to utilize



Model Regulations – Agriculture

- Agricultural Subdivision
 - To be utilized in conjunction with other zoning regulations.
 - Goal maintaining the region's heritage, and most arable soils while keeping in balance development needs.
 - Preserving key farmland and soils to increase resiliency of food production while shifting development to other areas.
 - Encouraging permanent protection of agricultural lands.
- General Provisions
 - Maintain existing agricultural production and improve the viability of the land-often referred to as regenerative agriculture.



Model Regulations – Recreation

- Bike/Pedestrian Site Design Enhancements
 - Developed through the lens of access, and thereby focuses on creating bike and pedestrian regulations which promote walkability and bikability.
 - Guidance on sidewalk criteria, complete streets, open space requirements for residential areas, and bike parking minimums to prioritize multimodal transportation for energy reduction and protect natural spaces for recreation.

Model Regulations – Coastal Resiliency Funding Options



- Impact Fees
 - Use Capital Improvement Program and impact fee zoning (which may already exist).
 - Establish fee for development costs the municipality in infrastructure improvements related to climate change impacts.
 - Collect fees and use on improvements within 6 years.
- Transfer of Development Rights
 - Identify areas to encourage development away from impacted areas (based on flood risk, habitat protection, etc.).
 - Determine the value of that increased area of development this part is hard!
 - Establish zoning regulations and set up administrative accounting process.

Model Regulations – Coastal Resiliency Funding Options continued

- Off-site Mitigation likely already an adopted regulation!
 - Use when there is a site plan or subdivision application in a sensitive area like an area likely subject to sea-level rise or flooding.
 - Improvements are limited to roadway, drainage, sewer and water upgrades;
 - The scope of improvements must be in a reasonable proportion to the proposed development

Review of Using

- Coastal Resiliency Funds (RSA 36:53)
- Coastal Resiliency and Cultural and Historic Resources District & Funds (RSA 12-A:68 & 69)
- Coastal Resilience Incentive Zone (RSA 79-E: 4-a)
- Capital Reserve Fund (RSA 35)
- Trust Funds (RSA 31:19-a)
- Municipal Finance Act Issuance of Bonds (RSA 33)
- Utility Fees: Stormwater & Resiliency (RSA 149-I:6)



Model Regulations – Drinking Water

- Groundwater Protection
 - Builds on existing DES Groundwater Model
 - Increase connection of groundwater/surface water by restricting hazardous land uses in floodprone areas.
 - Improves stormwater management, particularly for municipalities that have not adopted SWA Model Regulations.
 - Minimizes salt application
 - Increases participation by the Conservation Commission in the approval process for uses requiring CUP.
 - Updates Spill Prevention and Response Plans requirements
- Surface Water Source Buffer
 - Uses 2021 RPC/SPRC/DES model surface water buffer.
 - Recommends 100 foot buffer for surface water sources and adjacent surface waters/wetlands.
 - Uses recommendations from Buffers on the Bay.
 - Gives recommendations to Wetland Ordinances based on wetland function, with larger buffers for larger wetland resources.

Model Regulations – Drinking Water continued



- Groundwater Rise Overlay District
 - Will require further refinement as mapping improves; municipality will require groundwater rise data.
 - Provides purpose and legal authority language to ensure a community understands the goals and objectives of what their seeking to accomplish and that they can enforce the regulation.
 - Provides process on how a groundwater rise zone overlay district would be applied and could be adopted.
 - Future considerations:
 - Requirements for future development that may cause need to hook up to municipal water.
 - Requirements for design or inspection of septic systems.



Adding to the Guide

- ✓ Flooding: Expansion of Menu of Higher Floodplain Regulation Standards for New Hampshire Communities via current FloodSmart Seacoast Initiative
- ✓ Groundwater: Develop design requirement regulations to mitigate impact on infrastructure (roads, septic, stormwater, etc.) from groundwater rise and saltwater intrusion. NHDES efforts to increase modeling in seacoast to include impact to seasonal highwater table.
- ✓ Electric Vehicle Infrastructure and Design Requirements: Utilizing RPC transportation funding and incorporating NH Electric Vehicle Plan.
- ✓ Heat Reduction Site and Infrastructure Design Requirements
- ✓ Solar Model Ordinance
- ✓ Access Management/Parking Reduction Options
- ✓ Housing & Environmental Justice Regulations
- ✓ Increasing Flexibility in Regulations Aimed at Resilience: Example: Allowing more outdoor dining option in traditionally public spaces like sidewalks and parking lots.



Questions?

1. What topics would you like to see example land use regulations on that would help your community become more resilient to the impacts of climate change?

2.Has your community adopted similar regulations in your community?

3.Is your community interested in adopting model regulations from the Resilient Land Use Guide for NH?

Thank you!

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RESILIENT LAND USE DO GUIDE FOR NH