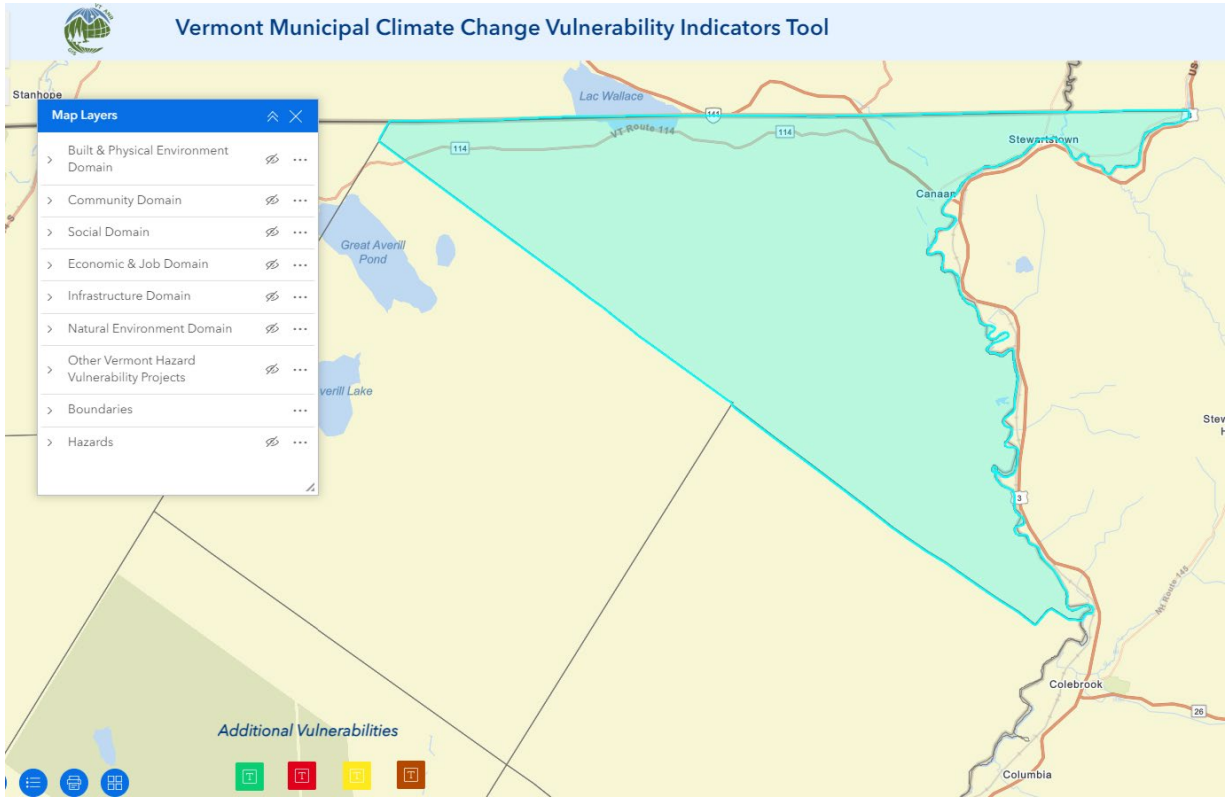
Canaan Vulnerability Profile

2024 Municipal Vulnerability Indicator (MVI) Climate & Community Profile



MVI Tool (2024)

Essex County

Population: 862

Flagged factors that contribute to climate vulnerability

Population of Low Income: 23%

Elderly residents: 28%

People with Disabilities: 16%

Linguistic Isolation: 2%

Transportation & Energy Burden: 12%

African American Residents: 5%

Outdoor Workers: 14%

Housing stock built prior to 2000: 89%

ERAF Assistance Rate: 7.5%

Limited Municipal Financial & Staff Capacity

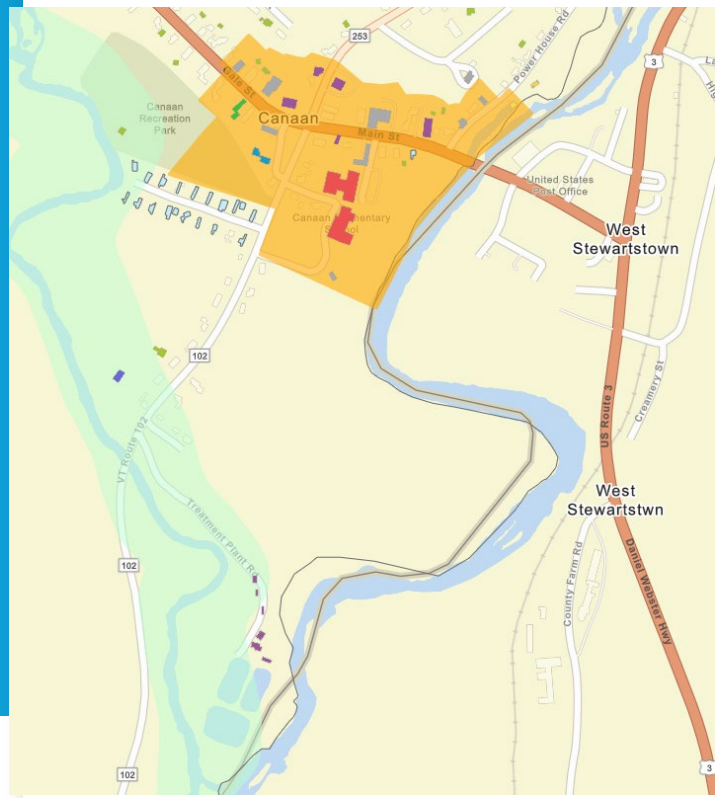
VERMONT
AGENCY OF NATURAL RESOURCES

Critical Assets

Buildings or structures that provide services and functions essential to a community, especially during and after a disaster.

Canaan, Essex County
Population: 862

MVI Tool (2024)



Canaan Village Center



Beecher Falls Village Center

Critical Assets:

- Library
- School K/12
- Fire Station
- Town Hall
- Health Clinic
- Wastewater Treatment Plant
- Manufacturing Site

Village Boundaries

Fluvial Erosion - River Corridors. Data Source: VT DEC

Community Domain

Hazard Domain

MVI Activated "Open" Layers:

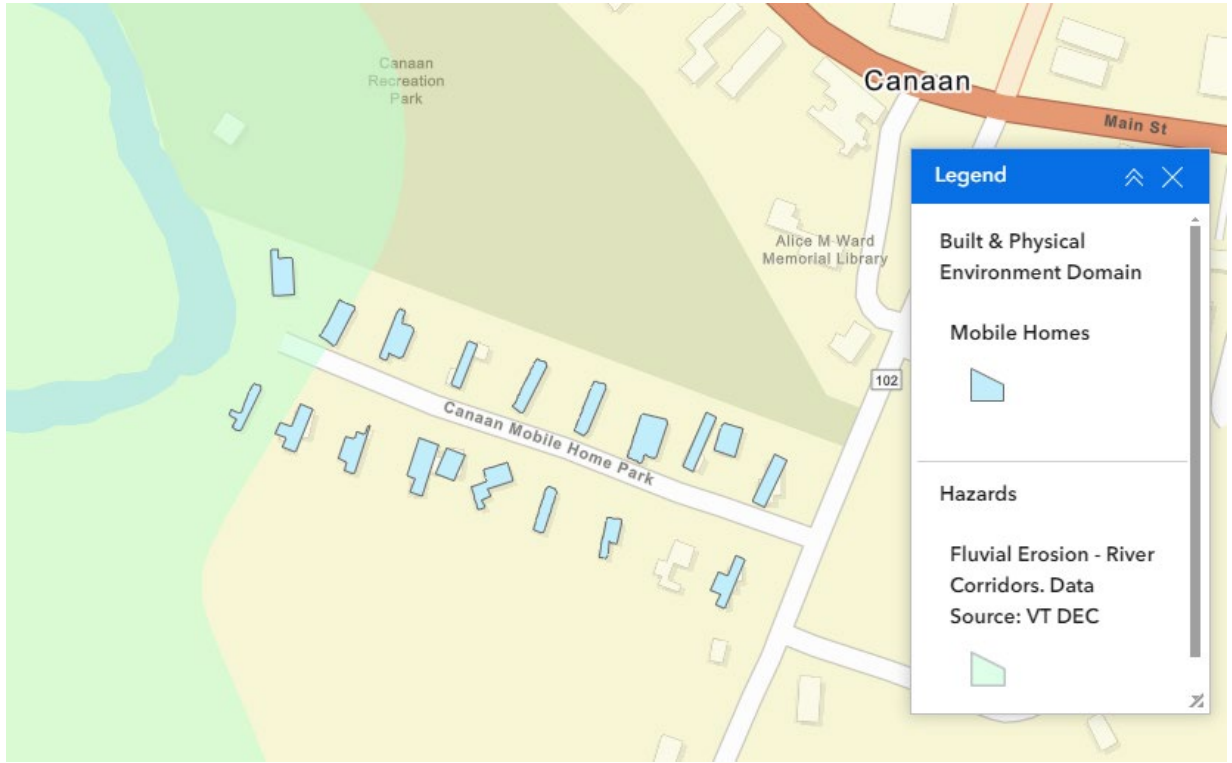
1. Built & Physical Environment Domain
2. Critical Assets, Emergency Services, Other Site Types sublayers

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Vulnerable Social Populations

Canaan, Essex County
Population: 862

MVI Tool (2024)



Canaan Mobile Home Park – A multi-unit mobile home park established in the river corridor.

Defined in the Vermont Climate Action Plan as populations who:

- Are highly exposed to climate risks, such as health impacts, flooding, and extreme temperatures;
- Experience oppression and racism, are excluded from opportunities, or have fewer resources to adapt to climate and economic change;
- Bear the brunt of pollution and negative effects from today's fossil fuel and extractive economies; and
- Are more likely to experience a job transition as Vermont addresses climate change.

MVI Activated "Open" Layers:

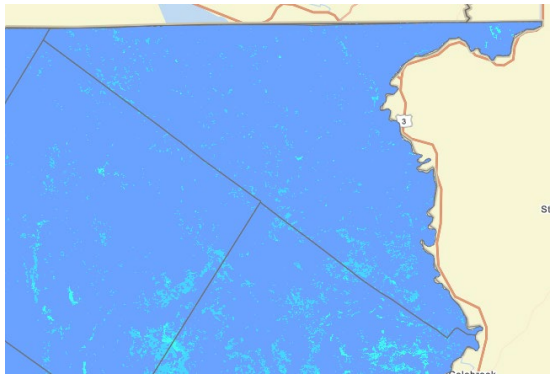
1. Social Domain, Economic & Job, Built & Physical Environment Domain

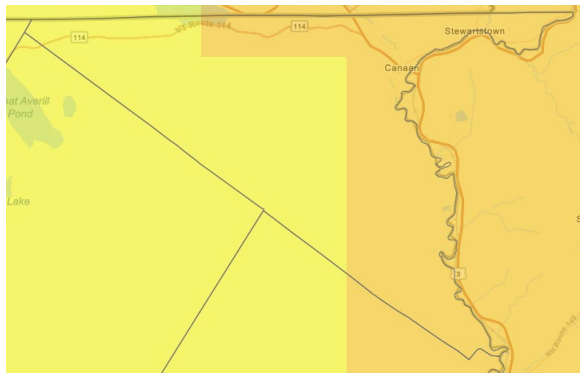
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Natural Hazards

Environmental phenomena that have the potential to impact the natural, social, and built environments.

MVI Tool (2024)

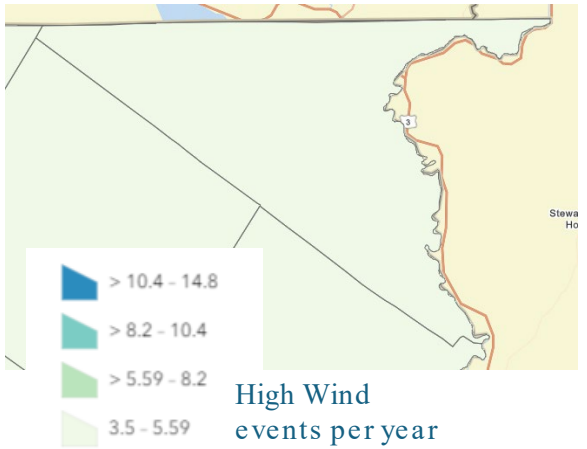




Extreme Heat days above 90 °F



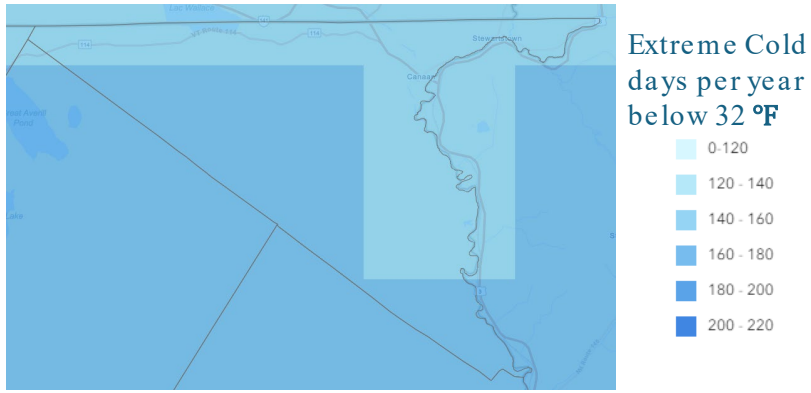
Fluvial Erosion



High Wind events per year

Top Hazards Identified in LHMP ('24):

- Severe winter storms
- Extreme heat &cold
- Flooding (inundation and fluvial)
- Fire
- Infectious disease
- High winds



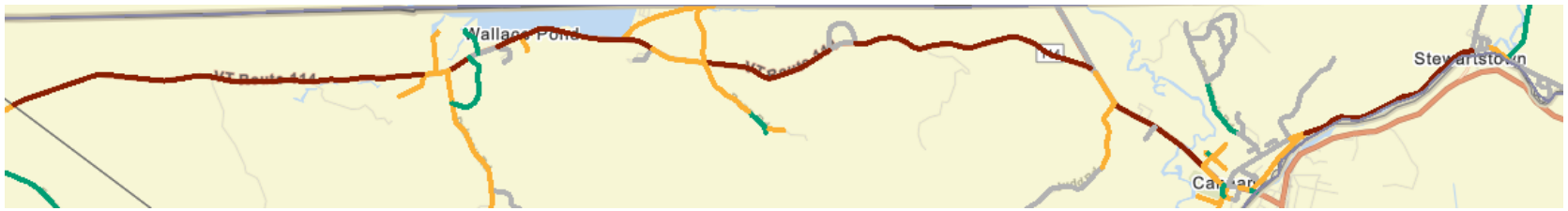
MVI Activated "Open" Layers:

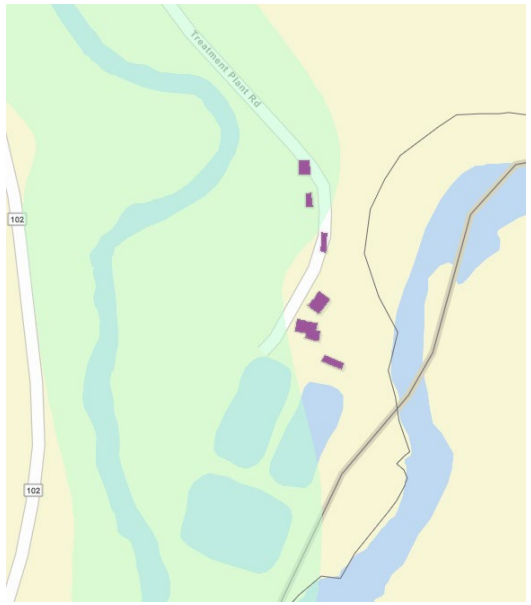
1. Hazards

Risks

MVI Tool (2024)

The likelihood of that hazard causing harm to people, services, facilities, and infrastructure in a community.





Top Risks to Hazards:

- Critical Assets in Floodplain
- Inundation points across critical road infrastructure
- Limited evacuation routes
- Mobile home parks in river corridor and floodplain
- Low air quality to aging population

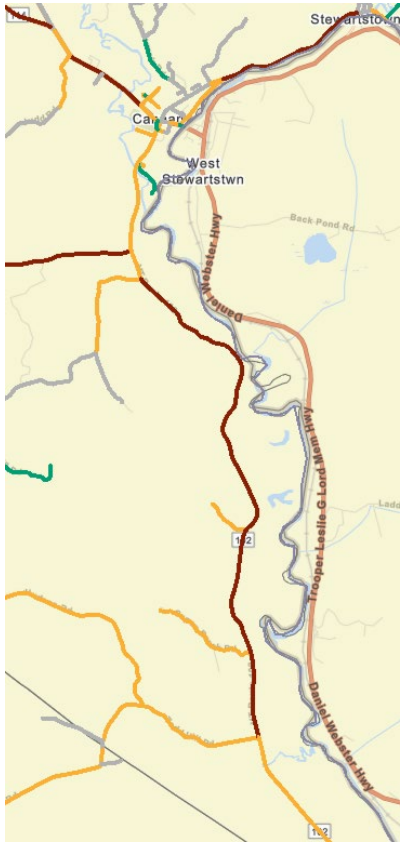
Fluvial Erosion

WASTEWATER TREATMENT PLANT

Risk

- high
- med
- low
- unknown

Transportation Resilience Planning Tool (TRPT)



MVI Activated "Open" Layers:

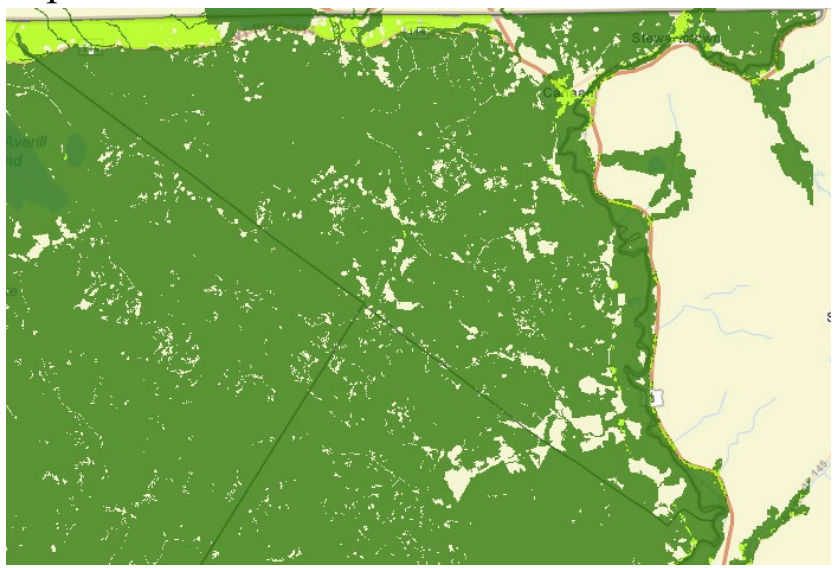
1. Other Vermont Hazard Vulnerability Projects, & Infrastructure Domain
2. Transportation Resilience Planning sublayers

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Building Resilience

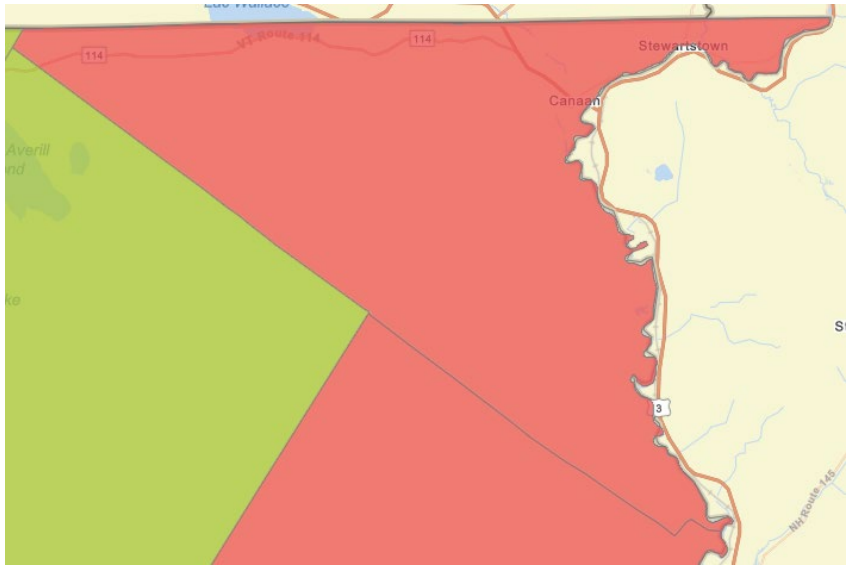
What can the town do to mitigate risk and increase adaptive capacity? What nature-based solutions can help build resilience in this location? How can vulnerable populations with increased risk and exposure be planned for?

MVI Tool (2024)



Habitat Blocks

- HIGHEST PRIORITY
- PRIORITY



Emergency Relief and Assistance Fund (ERAF) Rates

- 7.5% (Less than 4 mitigation actions adopted)
- 12.5% (4 mitigation actions adopted)
- 17.5% (5 or more mitigation actions adopted)

Actions the Town of Canaan can Take:

- Increase ERAF Rate by establishing LEMP & River Corridor Protections
- Update Flood Bylaws upon release of FEMA maps
- Support conservation of private lands
- Ensure critical assets are protected from flooding
- Highlight critical access roads with inundation points
- Ensure vulnerable populations have accessibility to health centers and social centers
- Update zoning bylaws to ensure protection of priority habitat

MVI Activated "Open" Layers:

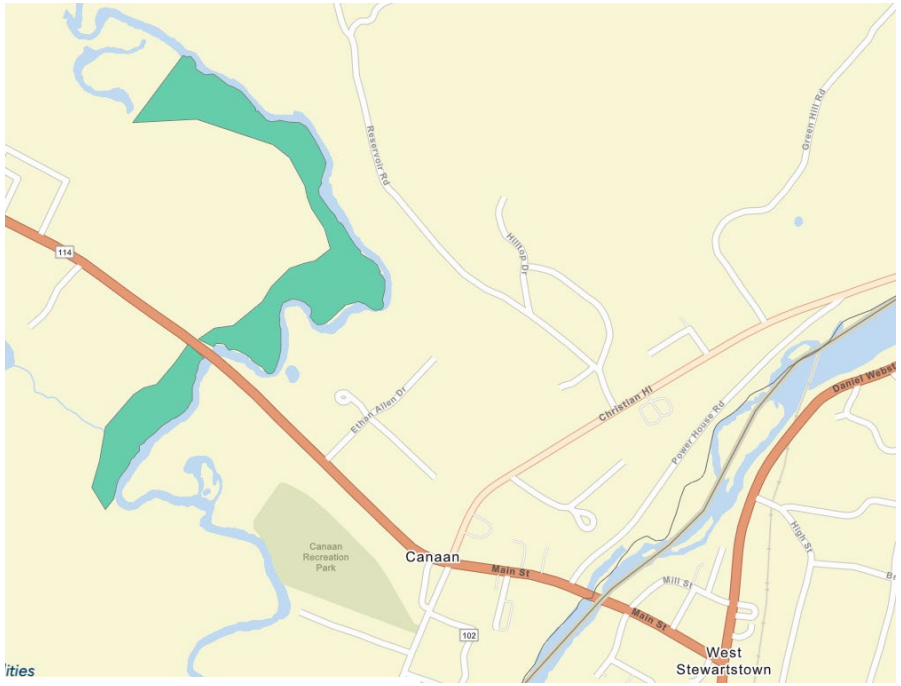
1. Community, Natural Environment Domain
2. Emergency Relief & Assistance Funds, Landscape Scale sublayers

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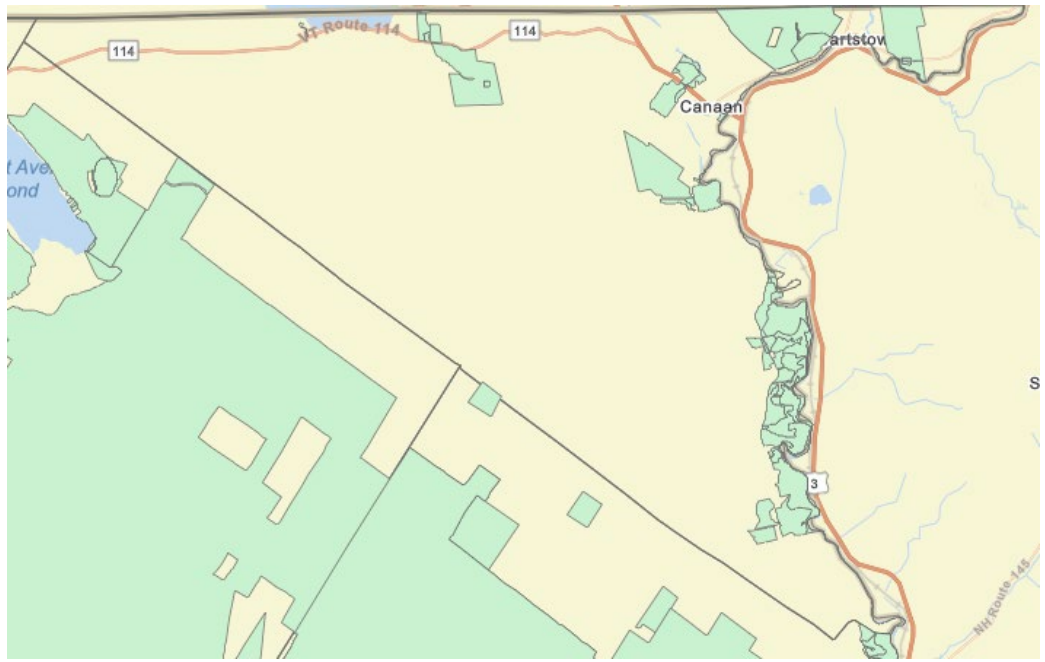
Building Resilience

What has the town already achieved to be resilient?

MVI Tool (2024)



River and Stream Protection



Conserved and Protected Lands

Actions the Town of Canaan has Taken:

- A community forest
- Johnson Farm WMA
- Numerous properties in Vermont Land Trust & Current Use
- River Corridor Easement

MVI Activated "Open" Layers:

1. Community, Natural Environment Domain
2. Conserved and Protected Lands, River & Stream Protection sublayers

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