

REBUILD BY DESIGN



REBUILD BY DESIGN

partners with local communities, experts, and government leaders to develop and implement infrastructure policies and projects that prepare regions for the world's most pressing challenges.

1. Large Scale Regional Design Competitions
2. Innovative Processes to Address Cities Challenges
3. Research & Policy



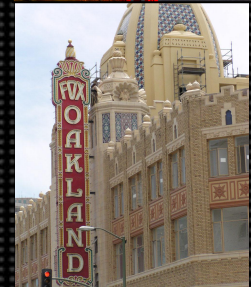
HURRICANE SANDY DESIGN COMPETITION

- Rebuild by Design led a competition awarding **\$930M** in HUD funds to 7 large-scale climate projects, developed with **535** organizations, **181** agencies, and **25** universities
- Over **50%** of these projects have broken ground, attracting **\$4.3B in investments**
- Many projects incorporate **parks and community infrastructure** as part of the solution



PLACE-BASED ENGAGEMENTS AROUND THE WORLD

- **Athens:** Promoted stewardship for Lycabettus Hill
- **Atlanta, GA:** Developed a student design competition for Ted Turner Drive Corridor
- **Amman:** RBD_U program on waste, water, transportation
- **Boulder, CO:** Created a resilient and sustainable mobile home park, and later designing a collaborative process to address COVID needs
- **Boston, MA:** Proposed a citywide plan to create prepared districts
- **Juarez, MX:** Executed a design competition for Juan Gabriel Plaza
- **Los Angeles, CA:** Collaborated with stakeholders to create better building codes
- **Mexico City:** Developed a master plan framework for Xochimilco
- **Oakland, CA:** Implemented a workshop series on effective engagement
- **San Juan, PR:** Convened experts and the community for a master plan process
- **Singapore:** Promoted a community led plan to build social readiness to address flash floods



Record flooding in Kentucky and Appalachia kills more victims as searches continue

JULY 29, 2022 · 2:56 PM ET

By [Shauneen Miranda](#)



WE ARE ALL AT RISK

AP

WORLD

U.S.

ELECTION 2024

POLITICS

SPORTS

OLYMPICS

ENTERTAINMENT

BUSINESS

SCIENCE

FACT CHECK

...

Live: Hamas' Ismail Haniyeh killed

Venezuela election

Boar's Head recall

0

EVEN WHEN THE NEWS IS FREE, JOURNALISM IS NOT. SUPPORT INDEPENDENT, FACT-BASED JOURNALISM.

DONATE

U.S. NEWS

Record-breaking US heat wave scorches the Midwest and Northeast, bringing safety measures

FOX WEATHER

The FOX Weather App
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Local Weather

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Lifestyle

Video

America's

WEATHER NEWS | Published July 30, 2024 7:52am EDT | Updated July 30, 2024 9:59am EDT

Catastrophic flooding in Vermont washes away roads, traps terrified residents amid Flash Flood Emergencies

USA TODAY

Weather

Add Topic +

Severe thunderstorms to hit Midwest with damaging winds, golf ball-size hail on Tuesday

LA wildfire damages set to cost record \$135bn

9 January 2025

Natalie Sherman and Peter Hoskins

BBC News

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COUNTY-LEVEL DISASTER DECLARATIONS AND CONGRESSIONAL DISTRICTS (2011-2023)

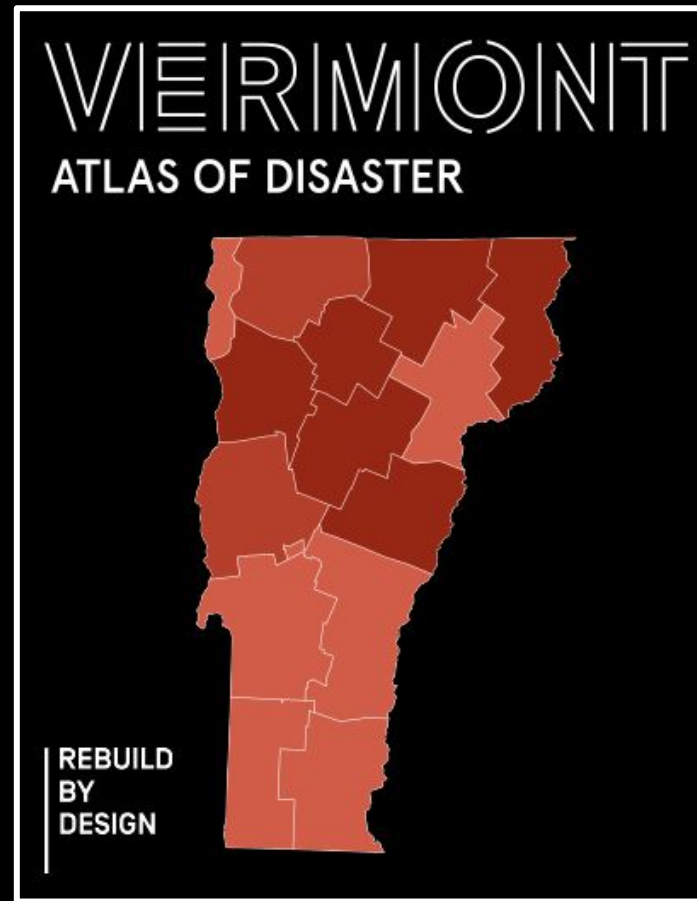
COUNTIES WITH THE HIGHEST NUMBER OF MAJOR DISASTER DECLARATIONS (2011-2024)

RANKING	COUNTY NAME	NUMBER OF MAJOR DISASTER DECLARATIONS	REPRESENTATIVE
1	Washington, VT	22	Becca Balint (D) *
2	Merrimack, NH	19	Maggie Goodlander (D)
3	Lamoille, VT	17	Becca Balint (D) *
4	Franklin, KY	16	James Comer (R)
5	Johnson, KY	16	Harold Rogers (R)
6	Essex, VT	16	Becca Balint (D)*
7	Orleans, VT	16	Becca Balint (D)*
8	Clay, KY	15	Harold Rogers (R)
9	Lawrence, KY	15	Harold Rogers (R)
10	Lee, KY	15	Steve Scalise (R)

ATLAS OF DISASTER: VERMONT

KEY FINDINGS 2011-2024

- Experienced **25 federally declared major disasters** due to **extreme weather** between 2011-2024.
- **Ranked 4th** in the country for **per capita post-disaster federal assistance**.
- **Ranked 7th** in the country for number of recent **disaster occurrences**
- **Every county has had 5 or more** recent major disasters, and **8 counties have had at least 11**.
- **Washington County** has had the **highest number of disaster declarations** in the state: **22** disasters.



DISASTER OCCURRENCES 2011-2024

FEDERALLY DECLARED CLIMATE DISASTERS BY COUNTY

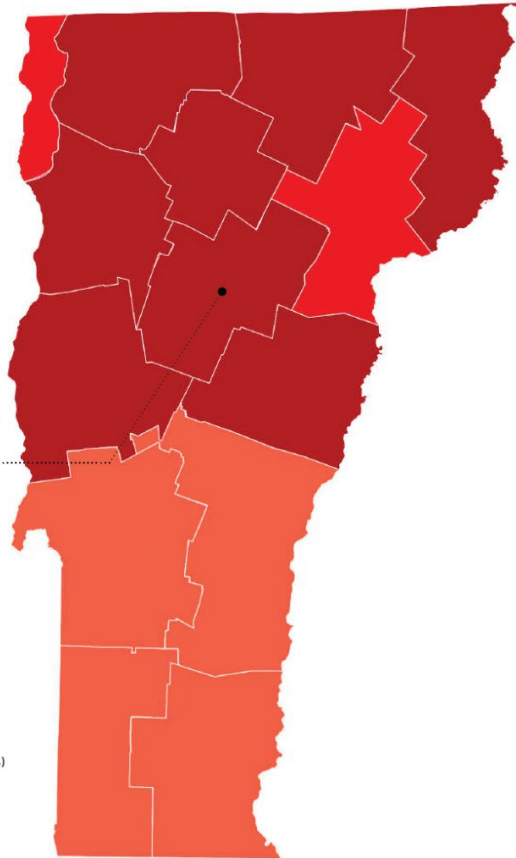
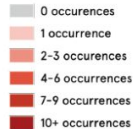
25
disaster
declarations

Every county in Vermont has had 5 or more recent climate disasters. 9 out of the 14 counties have had 10 or more disasters between 2011-2024.

Washington County has experienced 22 recent disaster declarations - the highest in the State.

Number of Disaster Events

Major Disaster Declarations (2011-2024)



MAP MADE BY REBUILD BY DESIGN
FEMA DATA COURTESY OF IPARAMETRICS

FEDERAL ASSISTANCE 2011-2024

POST-DISASTER PUBLIC ASSISTANCE AND HAZARD MITIGATION FUNDS
OBLIGATED BY COUNTY FOR CLIMATE DISASTERS

\$580M
post-disaster
assistance

\$540.6M FEMA obligations

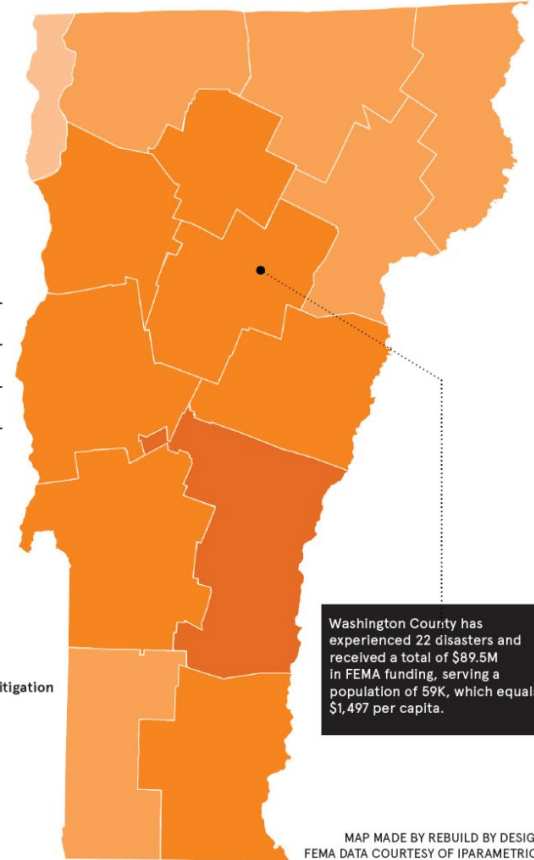
\$39.6M HUD CDBG-DR Funds

\$580.2M FEMA + HUD assistance

\$902 per capita cost

FEMA Public Assistance and Hazard Mitigation

Federal Share Obligated (2011-2024)



Washington County has experienced 22 disasters and received a total of \$89.5M in FEMA funding, serving a population of 59K, which equals \$1,497 per capita.

MAP MADE BY REBUILD BY DESIGN
FEMA DATA COURTESY OF IPARAMETRICS

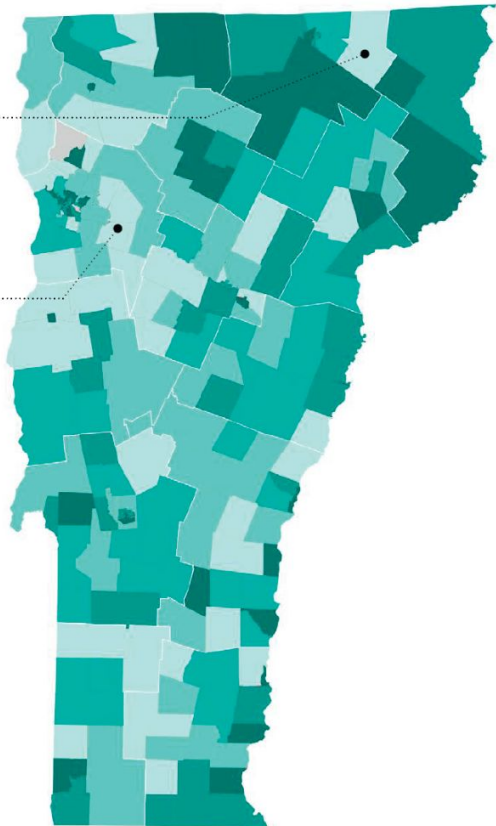
SOCIAL VULNERABILITY INDEX 2022

AREAS OF GREATEST SOCIAL VULNERABILITY

Essex County, with 12 disasters and a population of just 6K in 2022, underscores how climate risks disproportionately affect rural areas with smaller populations.

Chittenden County, with 12 disasters and a 7% population increase from 157K in 2010 to 168K in 2022, faces increasing vulnerability as both disaster frequency and population density rise.

Social Vulnerability Index
CDC (2022)



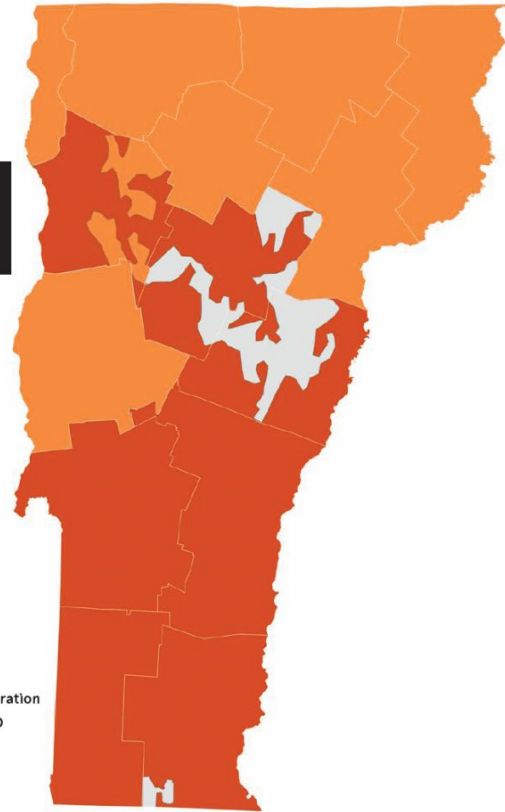
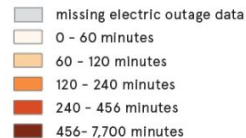
MAP MADE BY REBUILD BY DESIGN
DATA SOURCE: CDC/ATSDR 2022 SVI

ENERGY RELIABILITY 2011-2021

COUNTIES AT GREATEST RISK OF POWER OUTAGES

115,000 customers lost power during the Halloween storm of 2019 that drenched Vermont with 3-5 inches of rain in a day, causing over \$6 million in infrastructure damage.

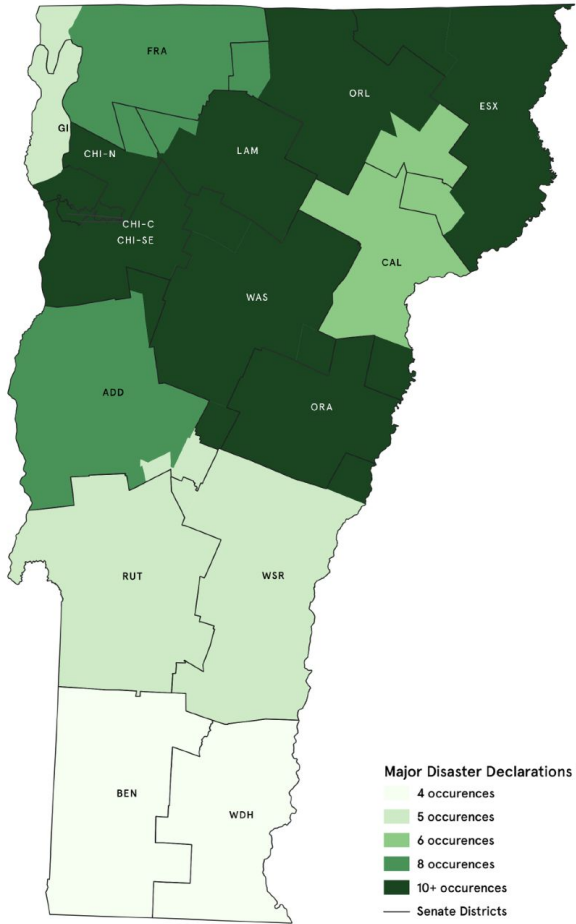
Aggregated Annual Electric Outage Duration
Including major events - SAIDI_W_MED



SOURCE: U.S. ENERGY INFORMATION ADMINISTRATION
MAPS COURTESY OF APTIM

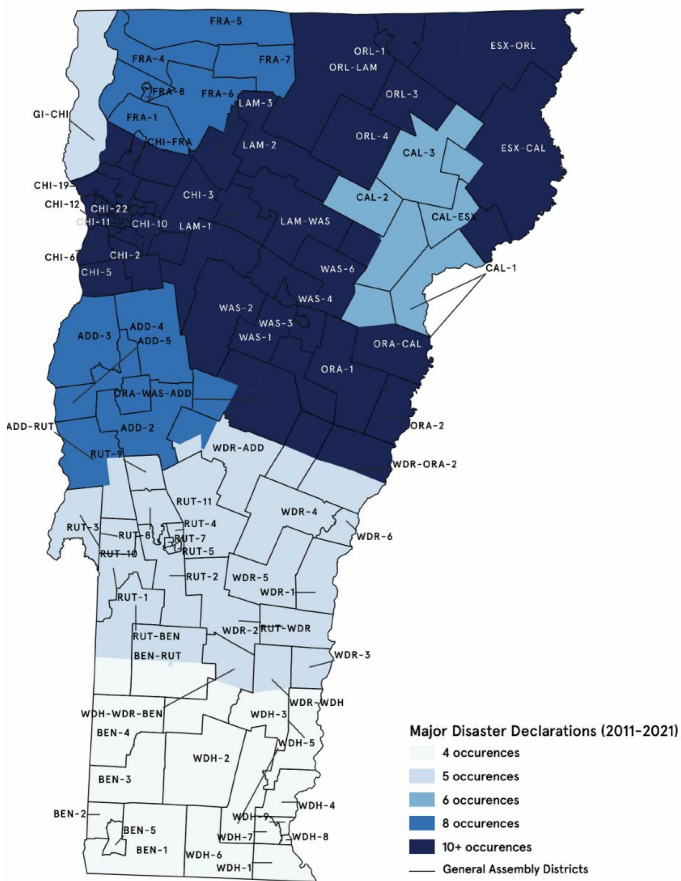
VT SENATE DISTRICTS

MAJOR DISASTER DECLARATIONS 2011-2021



VT GENERAL ASSEMBLY DISTRICTS

MAJOR DISASTER DECLARATIONS 2011-2021



SOURCE: FEMA 2021; VT LEGISLATIVE BOUNDARIES
MAPS COURTESY OF IPARAMETRICS

VERIMOUNT

				Total	2011									
						1995: SEVERE STORMS AND FLOODING		4001: SEVERE STORMS AND FLOODING		4022: TROPICAL STORM IRENE		4043: SEVERE STORMS AND FLOODING		
GEOID	COUNTY NAME	# OF DISASTERS	FEMA TOTAL	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	
50000	50000: Statewide	22	\$151,577,075.93	\$146,855,179.29	\$4,721,896.64	\$6,777,748.62	\$11,338.00	\$546,863.80	\$19,715.00	\$0,818,193.36	\$3,242,619.40			
50001	50001: Addison County	11	\$15,315,339.10	\$13,442,989.63	\$1,872,349.47	\$288,312.48	\$236,548.00			\$3,628,573.07	\$1,447,926.47			
50003	50003: Bennington County	5	\$10,443,549.50	\$8,673,033.63	\$1,770,515.87					\$6,339,295.86	\$1,001,021.00			
50005	50005: Caledonia County	11	\$18,390,254.85	\$15,749,820.56	\$2,640,434.29			\$2,799,333.45	\$0.00	\$2,242,701.89	\$104,849.25			
50007	50007: Chittenden County	14	\$18,684,395.37	\$16,139,181.90	\$2,545,213.47	\$2,460,958.28	\$225,772.00			\$439,636.58	\$987,678.78			
50009	50009: Essex County	16	\$2,401,074.86	\$2,391,600.11	\$9,474.75	\$391,201.97	\$0.00	\$1,396,986.13	\$0.00	\$52,197.20	\$0.00			
50011	50011: Franklin County	11	\$9,375,959.26	\$6,395,386.32	\$2,980,572.94	\$290,862.31	\$0.00			\$300,874.19	\$2,397,563.25	\$600,020.21	\$0.00	
50013	50013: Grand Isle County	7	\$642,564.40	\$642,564.40	\$0.00	\$642,564.40	\$0.00			\$0.00	\$0.00			
50015	50015: Lamoille County	17	\$34,343,761.13	\$31,382,480.00	\$2,961,281.13	\$909,281.39	\$28,458.00			\$1,536,311.59	\$1,026,150.78			
50017	50017: Orange County	14	\$21,939,865.76	\$20,983,933.82	\$955,931.94			\$167,666.71	\$0.00	\$5,790,764.61	\$461,749.44			
50019	50019: Orleans County	16	\$16,929,883.61	\$15,386,238.95	\$1,543,644.66	\$1,111,247.93	\$0.00			\$1,920,785.11	\$405,908.83			
50021	50021: Rutland County	7	\$22,296,320.37	\$18,464,880.16	\$3,831,440.21					\$12,181,097.24	\$3,466,726.94			
50023	50023: Washington County	22	\$89,492,221.22	\$69,068,093.45	\$20,424,127.77	\$836,626.66	\$0.00	\$5,634,948.63	\$91,571.00	\$9,115,274.23	\$3,135,431.02	\$241,066.93	\$0.00	
50025	50025: Windham County	6	\$44,746,824.00	\$41,351,888.12	\$3,394,935.88					\$28,690,916.52	\$2,368,999.63	\$105,280.23	\$0.00	
50027	50027: Windsor County	7	\$84,051,799.49	\$77,166,111.58	\$6,885,687.91					\$43,722,812.95	\$5,214,674.54			
Total	Total	25	\$540,630,888.85	\$484,093,381.92	\$56,537,506.93	\$13,708,804.04	\$502,116.00	\$10,545,798.72	\$111,286.00	\$16,779,434.40	\$25,261,299.33	\$946,367.37	\$0.00	

2011-2024 DISASTER BY TYPE

- **17** disasters due to severe storms and flooding.
 - Includes severe storms and flooding with mudslides and landslides
- **Two** disasters due to winter storms
- **One** disaster due to tropical storms: Tropical Storm Irene



ECONOMIC IMPACTS

- A medium-sized natural disaster leads to a 5% increase in the share of people with debt collections after one year, which doubles to 10% after four years (Urban Institute).
- 90% of smaller companies fail within a year following a disaster, unless they can resume operations within 5 days (FEMA).

How Federal Disaster Money Favors The Rich

March 5, 2019 · 5:00 AM ET

Heard on [All Things Considered](#)

By [Rebecca Hersher](#), [Robert Benincasa](#)



12-Minute Listen



WASHINGTON COUNTY

CLIMATE CHANGE-INDUCED EXTREME WEATHER IS DISRUPTING VERMONT'S \$1.6 BILLION SKI INDUSTRY.¹⁷ THE UNUSUALLY WARM WINTER OF 2015-2016 LED TO EARLY CLOSURES AT MANY RESORTS, INCLUDING MAD RIVER GLEN, WHICH IS RESORTING TO STOCKPILE ARTIFICIAL SNOW TO COMPENSATE FOR SHORTER SEASONS.¹⁸

MARCH 2016

IMAGE SOURCE: ERIC FRIEDMAN | MAD RIVER GLEN

30 DAYS

The winter temperatures in Vermont are steadily rising, imperiling the ski industry with a forecasted loss of 30 days by 2080.¹⁹



10 DAYS

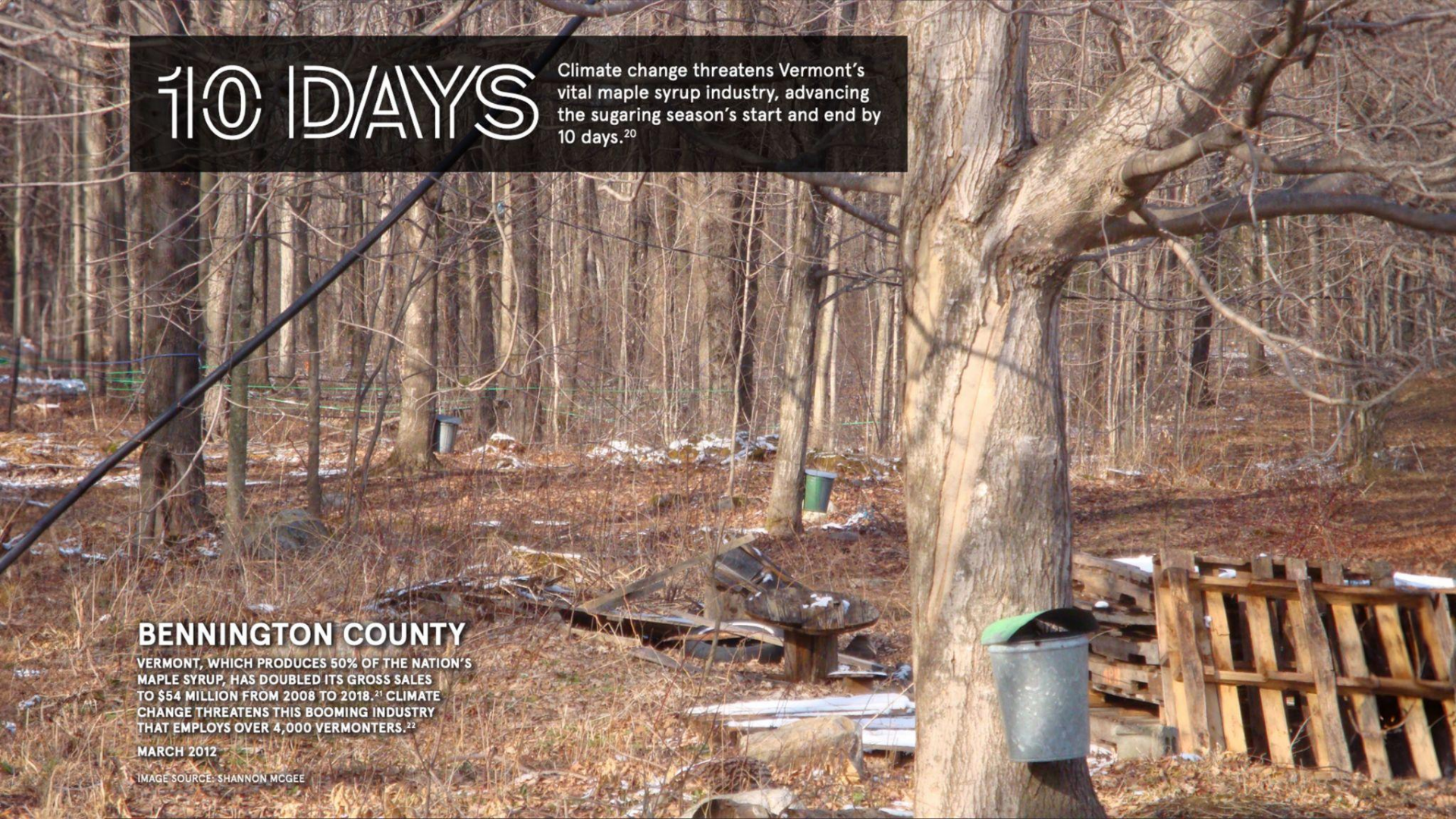
Climate change threatens Vermont's vital maple syrup industry, advancing the sugaring season's start and end by 10 days.²⁰

BENNINGTON COUNTY

VERMONT, WHICH PRODUCES 50% OF THE NATION'S MAPLE SYRUP, HAS DOUBLED ITS GROSS SALES TO \$54 MILLION FROM 2008 TO 2018.²¹ CLIMATE CHANGE THREATENS THIS BOOMING INDUSTRY THAT EMPLOYS OVER 4,000 VERMONTERS.²²

MARCH 2012

IMAGE SOURCE: SHANNON MCGEE



RUTLAND COUNTY

PERSISTING DROUGHT CONDITIONS IN VERMONT
CONTINUE TO STRAIN LOCAL FARMS, WITH REPORTS
FROM ESTABLISHMENTS NOTING A SIGNIFICANT 50%
DECREASE IN CATTLE FEED VOLUME AND QUALITY.¹⁵

MAY 2015

IMAGE SOURCE: PUTNEYPICS | FLICKR



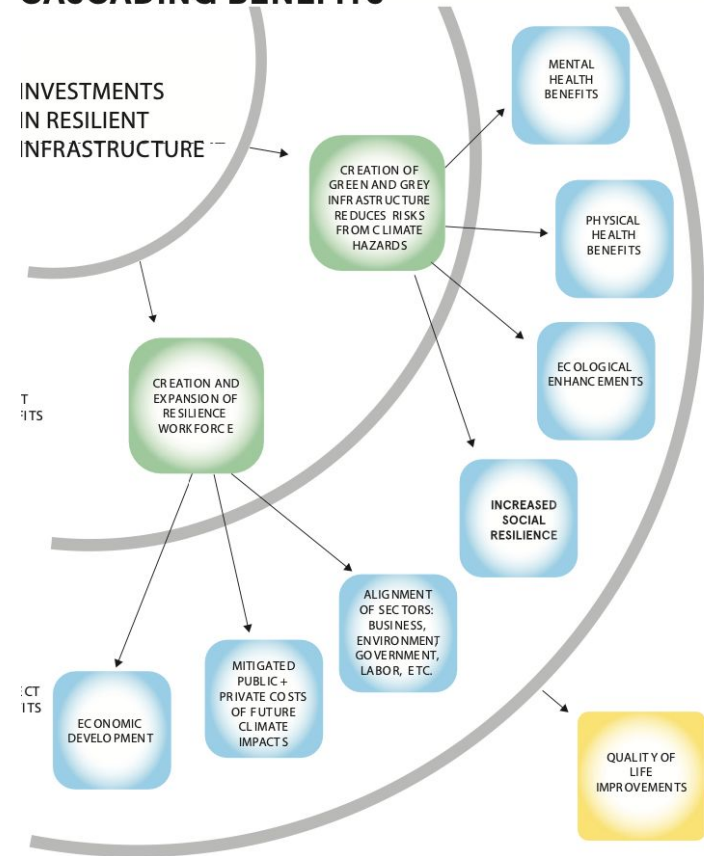
\$27

million in estimated crop losses spurred a federal disaster declaration for 10 Vermont counties in 2020, due to severe drought conditions.¹⁶

FUNDING VERMONT'S FUTURE

1. Develop a **statewide ballot measure** for climate adaptation funding
2. Leverage a **2% surcharge** on Property & Casualty (P&C) Insurance

CASCADING BENEFITS



RECENT VOTER-APPROVED BALLOT MEASURES

YEAR	LOCALITY	AMOUNT	PURPOSE	VOTER %
2024	CALIFORNIA	\$10 billion bond	Climate resilience, infrastructure, and adaptation	58%
2022	NEW YORK	\$4.2 billion bond	Ecological and climate resilience	68%
2022	RHODE ISLAND	\$50 million bond	Municipal climate resiliency and habitat protection	66%
2022	EL PASO, TX	\$272.5 million bond	Streets, parks, and climate projects	55%
2022	DENVER, CO	\$25 million bond	Outdoor learning spaces development	56%
2021	DENVER, CO	0.25% sales tax to raise \$40 million per year	Climate mitigation and adaptation for underserved communities	62%
2021	MAINE	\$100 million bond	Infrastructure adaptation for safety and resiliency	72%
2021	VIRGINIA BEACH, VA	\$567.5 million bond	Comprehensive flood protection measures	73%
2020	KEY BISCAYNE, FL	\$100 million bond	Sea level rise mitigation and infrastructure hardening	57%

NEW YORK STATE 2022 ENVIRONMENTAL BOND ACT

Provides funding for ecological restoration and flood resilience

- Created the research, strategy, and coalition that led former Governor Andrew Cuomo to create the **\$3 Billion Environmental Bond Act**
- Governor Kathy Hochul, recognizing additional needs, increased the Bond Act to **\$4.2 billion**
- **NYS Voters approved the Bond Act Nov, 2022.**



THE \$4.2 BILLION BOND ACT SUPPORTS:

\$1.1 Billion

Restoration and Flood Risk Reduction, including:

- \$250 million for a voluntary buyout program
- \$100 million for coastal rehabilitation and shoreline protection
- \$100 million for inland flooding and local waterfront revitalization

\$650 Million

Water Quality Improvement and Resilient Infrastructure, including:

- \$200 million for water infrastructure improvement act projects
- \$250 million for municipal stormwater

\$650 Million

Open Space Conservation and Recreation, including:

- \$75 million for fish hatchery creation and upgrades
- \$300 million for open space land conservation
- \$150 farmland preservation

\$1.5 Billion

Climate Change Mitigation, including:

- \$400 million for green building projects
- \$100 million for climate adaptation and mitigation projects
- \$500 million for zero emission school buses and supporting infrastructure
- \$200 million for air and water pollution elimination in EJ communities

\$300 Million

Other projects

CAPACITY OF A TWO PERCENT SURCHARGE P&C INSURANCE

	TOTAL INSURED P&C	TOTAL INSURED WITHOUT MED MAL AND WC	TWO PERCENT SURCHARGE WITHOUT BONDING	TWO PERCENT SURCHARGE WITH 10-YEAR BONDING(IN BILLIONS)
Total 50 States	\$695,509,700	\$629,385,861	\$12,587,717	\$287.1
Alabama	\$9,464,513	\$8,948,954	\$178,979	\$4.1
Alaska	\$1,655,434	\$1,402,346	\$28,047	\$0.6
Arizona	\$1,655,434	\$1,402,346	\$28,047	\$0.6
Arkansas	\$5,706,307	\$5,396,813	\$107,936	\$2.4
California	\$6,880,338	\$72,108	\$448,970	\$32.9
Colorado	\$1,500,000	\$1,400,000	\$100,000	\$0.5
Connecticut	\$8,992,575	\$8,131,839	\$162,637	\$3.7
Delaware	\$2,906,697	\$2,664,456	\$53,289	\$1.2
Florida	\$55,576,482	\$51,794,341	\$1,035,887	\$23.5
Georgia	\$22,954,861	\$20,953,153	\$419,063	\$9.5
Hawaii	\$2,701,615	\$2,381,500	\$140,000	\$1.1
Idaho	\$3,231,796	\$2,759,100	\$55,000	\$0.5
Illinois	\$27,060,540	\$24,181,953	\$483,639	\$11.0
Indiana	\$12,037,170	\$11,100,606	\$222,010	\$3.0
Iowa	\$6,790,563	\$6,069,738	\$121,395	\$2.0
Kansas	\$6,980,593	\$6,511,683	\$130,234	\$3.0
Kentucky	\$8,042,654	\$7,361,013	\$147,220	\$3.3
Louisiana	\$12,396,192	\$11,411,646	\$228,233	\$5.2
Maine	\$2,476,882	\$2,189,416	\$43,788	\$1.0
Maryland	\$12,684,730	\$11,527,865	\$230,557	\$5.2
Massachusetts	\$16,354,175	\$14,721,756	\$294,435	\$6.7
Michigan	\$20,817,467	\$19,547,615	\$390,952	\$8.9
Minnesota	\$12,462,639	\$11,416,765	\$228,335	\$5.2

	TOTAL INSURED P&C	TOTAL INSURED WITHOUT MED MAL AND WC	TWO PERCENT SURCHARGE WITHOUT BONDING	TWO PERCENT SURCHARGE WITH 10-YEAR BONDING(IN BILLIONS)
Mississippi	\$5,591,834	\$5,192,253	\$103,845	\$2.4
Missouri	\$12,677,046	\$11,576,608	\$231,532	\$5.3
Montana	\$2,603,859	\$2,293,122	\$45,862	\$1.0
New Hampshire	\$2,594,294	\$2,323,267	\$46,465	\$1.1
New Mexico	\$3,766,295	\$3,392,914	\$97,642	\$1.5
New York	\$47,566,816	\$42,538,109	\$850,762	\$19.3
North Carolina	\$17,059,009	\$15,440,215	\$308,804	\$7.0
North Dakota	\$2,616,611	\$2,600,180	\$52,004	\$1.2
Ohio	\$17,738,127	\$17,401,892	\$348,038	\$7.9
Oklahoma	\$3,231,796	\$2,759,100	\$55,000	\$0.5
Pennsylvania	\$26,196,056	\$22,812,640	\$456,253	\$10.4
Rhode Island	\$2,644,794	\$2,382,057	\$47,641	\$1.1
South Carolina	\$12,037,170	\$11,100,606	\$222,010	\$3.0
South Dakota	\$2,616,611	\$2,600,180	\$52,004	\$1.2
Tennessee	\$12,534,747	\$11,514,225	\$230,285	\$5.2
Texas	\$61,402,995	\$58,514,883	\$1,170,298	\$26.6
Utah	\$5,405,102	\$4,898,669	\$97,973	\$2.2
Vermont	\$1,506,858	\$1,302,233	\$26,045	\$0.6
Virginia	\$14,885,228	\$13,589,738	\$271,795	\$6.2
Washington	\$16,288,384	\$13,551,966	\$271,039	\$6.2
West Virginia	\$3,165,210	\$2,795,077	\$55,902	\$1.3
Wisconsin	\$11,213,538	\$9,196,595	\$183,932	\$4.2
Wyoming	\$1,288,005	\$1,263,939	\$25,279	\$0.6

What could a 2% surcharge do in 10 years
for climate infrastructure investments?

Nationwide \$287 Billion
VT \$600 Million

2% INSURANCE SURCHARGE (P&C)

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Nebraska	\$5,246,314	\$4,842,941	\$96,859	\$2.2
Nevada	\$6,256,046	\$5,736,060	\$114,721	\$2.6
New Hampshire	\$2,594,294	\$2,323,267	\$46,465	\$1.1
New Jersey	\$22,875,472	\$19,993,159	\$399,863	\$9.1
New Mexico	\$3,749,295	\$3,392,114	\$67,842	\$1.5
New York	\$47,566,816	\$42,538,109	\$850,762	\$19.3
North Carolina	\$17,059,009	\$15,440,215	\$308,804	\$7.0
North Dakota	\$2,616,611	\$2,600,180	\$52,004	\$1.2
Ohio	\$17,738,127	\$17,401,892	\$348,038	\$7.9
Oklahoma	\$8,605,457	\$7,844,825	\$156,897	\$3.6
Oregon	\$7,732,347	\$6,947,913	\$138,958	\$3.2
Pennsylvania	\$26,196,056	\$22,812,640	\$456,253	\$10.4
Rhode Island	\$2,644,794	\$2,382,057	\$47,641	\$1.1
South Carolina	\$10,636,489	\$9,741,622	\$194,832	\$4.4
South Dakota	\$2,555,563	\$2,371,137	\$47,423	\$1.1
Tennessee	\$12,534,747	\$11,514,225	\$230,285	\$5.2
Texas	\$61,402,995	\$58,514,883	\$1,170,298	\$26.6
Utah	\$5,405,102	\$4,898,669	\$97,973	\$2.2
Vermont	\$1,506,858	\$1,302,233	\$26,045	\$0.6
Virginia	\$14,885,228	\$13,589,738	\$271,795	\$6.2
Washington	\$16,288,384	\$13,551,966	\$271,039	\$6.2
West Virginia	\$3,165,210	\$2,795,077	\$55,902	\$1.3
Wisconsin	\$11,213,538	\$9,196,595	\$183,932	\$4.2
Wyoming	\$1,288,005	\$1,263,939	\$25,279	\$0.6

INSURANCE SURCHARGE BILLS

Location	Vermont	Washington	Massachusetts	Colorado	Connecticut	Rebuild by Design Recommendation
Bill no.	S.145 / H.105	SB 5996	S.472 / H.750	HB21-1208	SB 11	Atlas of Disaster
Name	Community Resilience and Disaster Mitigation Grant Program	Wildfire Prevention and Suppression Act	Establishing Sustainable and Equitable Funding for Climate Change Adaptation and Mitigation	Natural Disaster Mitigation Enterprise	Coordinating Connecticut Climate Resiliency Planning and Broadening Municipal Options for Climate Resilience	Resilient Infrastructure Fund
Funding Source <i>How much will the surcharge raise?</i>	\$4.3M assessment on certain insurance company premiums + \$15M government allocation	\$62.5 million per year Creates a surcharge on property and casualty insurance premiums of .52%	Up to \$100 million total from Climate and Community Resilience Fund	\$7.6 million in its first year	TBD	VT: \$600 million over 10 years (with bonding) see chart here . 2% surcharge of property & casualty insurance *minus workers compensation and medical malpractice



BUILDING RESILIENCE IN RURAL COMMUNITIES SPEAKER SERIES





BUILDING RESILIENCE IN RURAL COMMUNITIES SPEAKER SERIES

Thurs. 12/5
12 - 1:30pm
Zoom

Navigating VT Climate Risks & Building Resilience in Rural Communities

Join local and national partners to hear relevant case studies, take a deep dive into current resilience gaps and learn how our communities can address them. Topics include:

VT Climate Risks



Johanna Lawton
Rebuild by Design

Centering Environmental Justice Communities



Lena Greenberg
CROs



Jess Laporte
CROs

Designing Collaborative Outreach Processes



Amanda Gustin
Barre City Councilor

Key Strategies for Rural Resilience



Megan Lawson
Headwaters Economics

Moderated by:



Jessica Savage
VCRD

RSVP: bit.ly/VTspeakerseries



BUILDING RESILIENCE IN RURAL COMMUNITIES SPEAKER SERIES

Mon. 1/27
12 - 1:30pm
Zoom

Regional Planning and Leveraging Nature as Climate Infrastructure

Join local and national partners to hear relevant case studies, take a deep dive into current resilience gaps and learn how our communities can address them. Topics include:

**Managing Upstream Flooding
& Regional Planning Efforts**



Kevin Geiger
*Two Rivers-Ottawaquechee
Regional Commission*

**Supporting State-Level
Flood Resilience Strategies**



Gian Tavares
American Flood Coalition

**Leveraging Nature as
Climate Infrastructure in VT**



Michele Braun
Friends of the Winooski River

**Leveraging Nature as
Climate Infrastructure Nationally**



Vincent Lee
Arup

Moderated by:



Karina Dailey
VNRC

RSVP: bit.ly/VTSPeakersSeries3



BUILDING RESILIENCE IN RURAL COMMUNITIES SPEAKER SERIES

Flood Insurance and Housing

Join local and national partners to hear relevant case studies, take a deep dive into current resilience gaps and learn how our communities can address them. Topics include:

Tues. 12/17
12 - 1:30pm
Zoom

Moderated by:



Jacob Hemmerick
*VT Department of Housing &
Community Development*

**National Flood Insurance
Program (NFIP) 101**



Rebecca Pfeiffer
*VT DEC Watershed
Management Division*

**Housing Affordability &
Home Protections**



Kelly Hamshaw
University of Vermont

**Best Practices for
Housing Buyouts**



Anna Weber
*Natural Resources
Defense Council (NRDC)*

RSVP: bit.ly/VTSpeakerseries2



BUILDING RESILIENCE IN RURAL COMMUNITIES SPEAKER SERIES

Mobilizing for Vermont's Extreme Weather

March 27, 2025



REBUILD
BY
DESIGN

BREAKOUT GROUPS

#1

VT Climate
Risks in Rural
Communities

#2

Flood
Insurance and
Housing

#3

Leveraging
Nature as
Climate
Infrastructure

#4

Funding
Climate
Infrastructure

KEY TAKEAWAYS

1. Capacity for Under Resourced Small Towns
2. State, Local, and Regional Collaboration and Coordination
3. Equity in Housing and Climate Resilience
4. Sustainable, Long-Term Funding for Resilience

THANK YOU!

For more information, please contact:

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