### CLIMATE + HEALTH

# Climate and Health Adaptation Plan for the Public Health Council of the Upper Valley

Prepared by:
Public Health Council of the Upper Valley
With Assistance From:
Upper Valley Lake Sunapee Regional Planning Commission



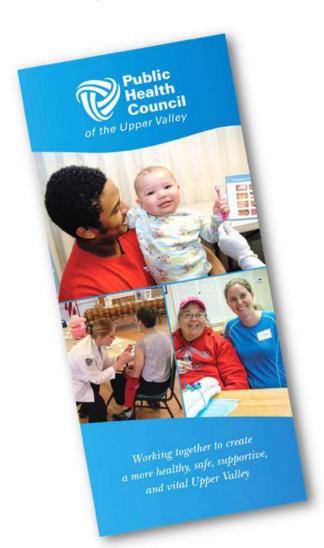






## **Public Health Council**

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# **Project History**

- Feb 2015: NH Division of Public Health Services offered funds to public health networks to create adaptation plans to address the health effects of climate change
- Opportunity for collaboration with Upper Valley Adaptation Workgroup and its partners to begin looking at health impacts of climate change
- Principles:
  - Build on what we have and on what we know
  - Use a defined project to build capacity for future work
  - Now is the time to learn how to build community resiliency because health impacts are likely to increase



# **Planning Partners**

- Dartmouth-Hitchcock Community Health
- Upper Valley Adaptation Workgroup
- Upper Valley Emergency Preparedness Coordinator
- Upper Valley Housing Coalition
- Upper Valley Lake Sunapee Regional Planning Commission
- Vital Communities
- Members of the Public Health Council



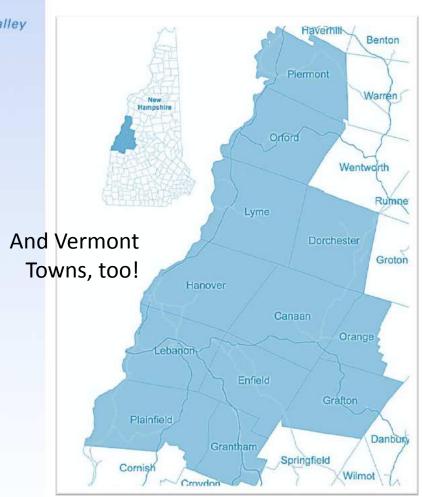
#### What is the Public Health Council?

- Community leaders and representatives from a diverse group of community sectors working together to create a more healthy, safe, supportive, and vital Upper Valley.
  - Advancing collaboration
  - Delivering core public health services
  - Establishing public health priorities, and
  - Mobilizing resources to achieve measurable outcomes.





#### What is the Public Health Council?



#### • Vision:

 Working together, our Upper Valley community will be healthy, safe, supportive, and vital.

#### Mission:

 To improve the health of Upper Valley residents through shared public health initiatives and services within a network of community stakeholders.

#### PLAN: We looked at...



#### Geography

- Population Centers
- Topography
- Infrastructure

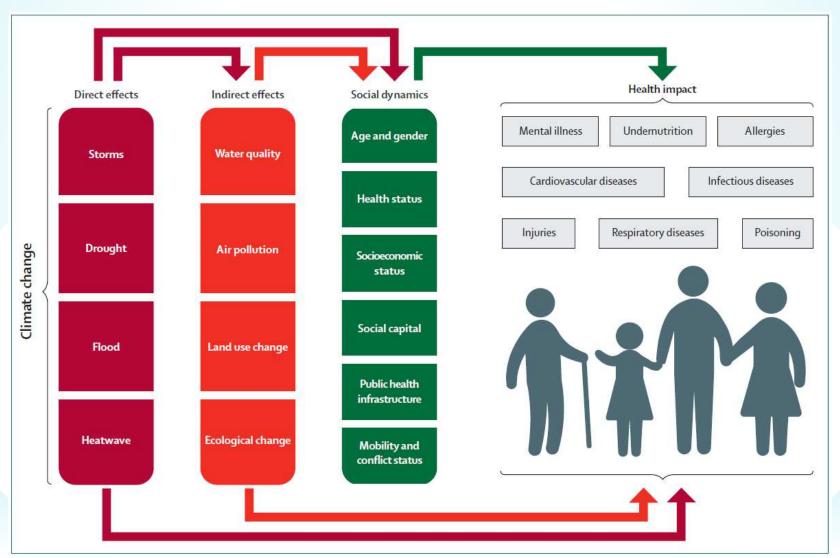
#### **Demographics**

- Population
- Age Cohorts
- Projections

### **Existing Work**

- Regional & Municipal Emergency Response Plans
- HazardVulnerabilityAssessments

#### PLANNING: What are the potential health risks?



Direct and Indirect Impacts of Climate Change on Health and Wellbeing; Source: <u>Health and Climate Change</u>, 2015, The Lancet Commissions

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#### Health Vulnerability Prioritization Summary

#### **High Priority Exposure:**

- Increasing occurrence of extreme heat events (increase in days over 90°F)
- Increased extreme precipitation and occurrence of extreme weather events
- Threats to mental health

#### **Health Impact:**

- Heat stroke
- Complicates chronic disease

- Injury
- Drowning
- Carbon Monoxide
- Mold
- Stress, Depression

#### Health Vulnerability Prioritization Summary

#### **Medium Priority Exposure:**

- Longer Growing Seasons
  - Vector-borne disease
  - Allergens
- Water and food security, food and water-borne diseases



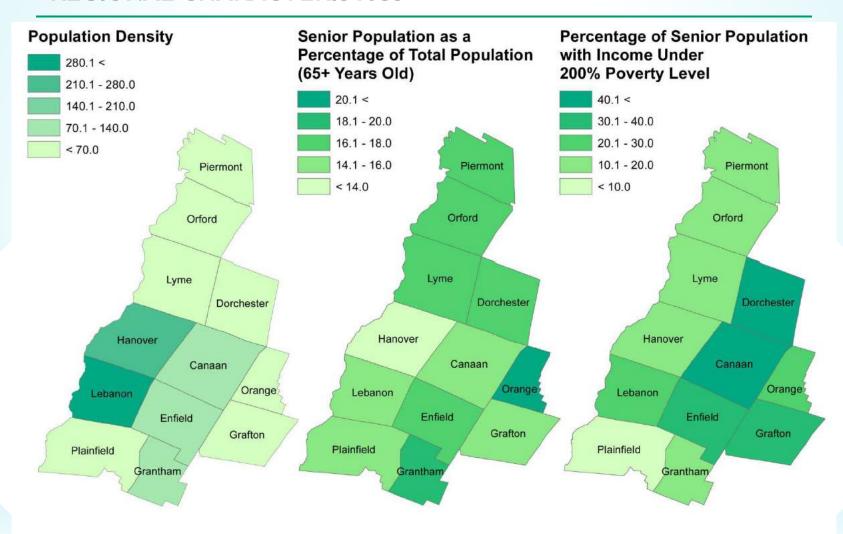
#### Health Impact:

- Lyme & West Nile
- Aggravates respiratory illness
- Crop contamination
- Water Supply



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#### REGIONAL CHARACTERISTICS



Data Source: 2013 Population Density data from the Economic & Labor Market Information Bureau, NH Employment Security, December 2014.

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Map created by UVLSRPC September 2015.

#### PLANNING: What is the significant demographic trend?





	PHC Total Pop	Pop 65 yrs +	Percent 65 yrs +
2010 Census	44,020	7,568	17%
2015 Est.	44,015	9,098	21%
2025 Est.	45,463	13,354	29%
2040 Est.	46,676	16,727	36%

Population estimates for study area based on 2013 NHOEP Population Projections

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#### Reducing the Impact of Severe Heat: Goals





- Help older adults remain healthy when we experience very hot days in the summer
- Build partnerships with organizations that serve older adults so they can help us get information and resources out
- Figure out the strategies that are going to work best in our communities
- Strengthen our capacity to address this and other health impacts of climate change.

#### Reducing the Impact of Severe Heat

#### Effective Interventions

- Outreach and Education
  - Heat Alert Systems
- Access to Cooling Shelters

#### **Upper Valley Approach**

- Phase One (until 9/2016)
- Outreach and Education
  - Community Forum
  - Work with Partners in Contact with Older Adults
    - What strategies might work?
    - What are the barriers?
    - Pilot Project

- Phase Two (after 9/2016)
- Heat Alert Systems
  - Determine thresholds & strategies
- Access to Cooling Shelters
  - Build off current work of Emergency Planning