



**Department
of Health**



Climate & Health Adaptation Workshops

Plenary Session: Part II

September 30th, 2022



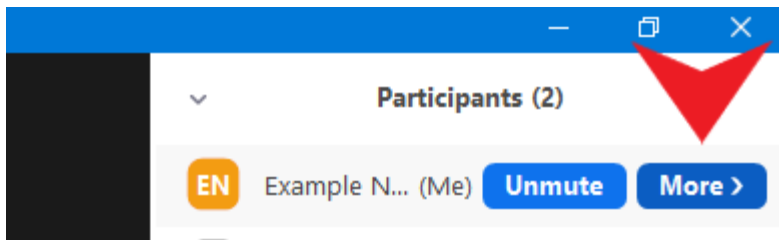
CDC-RFA-EH16-1602
CDC-RFA-EH21-2101



CDC-RFA-EH17-1702
CDC-RFA-EH22-2202

Before We Begin...

- **This session is being recorded** and will be emailed out to all registrants, and be uploaded onto NYSACHO's webpage
- Please remain **muted** to limit background noise
- At any time during the session, share your thoughts, feedback, and questions using the chat box, or Zoom's "reactions"!
- Please **rename yourself** to include your name and county/affiliation



In the "Participants" list, hover over your name and click "Rename"



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of Health



Review of Plenary Part I

To access materials from the plenary sessions, visit:
<https://www.nysacho.org/topic/climate-and-health-workshops/>

Today's Agenda

- Cross-Cutting Issues in Climate and Health
- Preview of Topic-Specific Workshops
- Q&A

Cross-Cutting Issues in Climate & Health

Leveraging Resources & Partnerships | **Dazzle Ekblad**, NYS Department of Environmental Conservation

Health Equity | **Josh Wilson**, Erie County Department of Environment & Planning

Funding | **Cari Olson**, NYC Department of Health & Mental Hygiene

Mental Health | **Hunter L. McQuiston**, NYU Grossman School of Medicine

Communications | **Dr. Ed Maibach**, George Mason University Center for Climate Change Communications



**Department of
Environmental
Conservation**



**Climate Smart
Communities**

100 CERTIFIED SINCE 2014

Leveraging Resources & Partnerships: Climate Smart Communities Coordinators

**Dazzle Ekblad
DEC Office of Climate Change
September 30, 2022
Climate & Health Adaptation Workshops**



Climate Smart Communities

State Support for Local Climate Action



Assistance to local government leaders to:

- Reduce greenhouse emissions
- Adapt to climate change

Voluntary. No fees. Sponsored by 7 NYS state agencies.

Comprehensive. Flexible.



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Milestones



- **2009** – Launch of the CSC program: focus on passing **10-point CSC pledge**
- **2012-2015** – CSC **regional coordinators** pilot, funded by NYSERDA
- **2014** – Launch of CSC **certification program**
- **2016** – 1st year of [DEC CSC grants and ZEV rebates/grants](#)
- **2016** – 1st round of [NYSERDA Clean Energy Communities](#): \$ for certification
- **2017** – Reinvigorated **governance structure** w/ interagency committees
- **2018** – Launch of new CSC website: <https://climatesmart.ny.gov/>
- **2019** – Passage of NYS CLCPA (climate act): <https://climate.ny.gov/>
- **2022** – Start [CSC Coordinators](#)
 - This week: reached [over 100 certified CSCs!](#)



CSC Certification Program

- Organized by the 10 pledge elements
- 120 points for the bronze level, 300 for silver
- ~25 actions to get to bronze.
- **Action types:**
 - Planning, outreach, policies, implementation
- [Action descriptions](#) offer detailed guidance for over 100 actions
 - Recommended steps, time & resources needed
 - **Examples to follow & inspire you!**



DEC CSC Funding Programs



Municipal Zero-emission Vehicle (ZEV) Program

- Rebates for electric vehicles for municipal fleets
- Grants for ZEV charging/fueling stations

CSC Grants

- Competitive, 50/50 match, for local gov'ts only
- Climate adaptation and GHG mitigation (outside power sector)
 - \$ for heat emergency plans, vulnerability assessments, improvements to cooling/emergency centers



CSC Coordinators



Climate Smart
Communities



Climate Smart Communities

About

Actions & Certification

Support

DASHBOARD

SIGN OUT

> About

> Actions & Certification

> Support

CSC Coordinators

CSC Scorecard

Regional Greenhouse Gas
Inventories in NYS

Webinar Presentation Archive

Find a Coordinator in Your Region

Climate Smart Communities Coordinators are available to provide free support services to municipalities across the state as part of the Climate Smart Communities program. Coordinators assist and support local governments in taking action to reduce greenhouse gas emissions and adapt to climate change through outreach, planning, education, and capacity building.

CAPITAL REGION

Tara Donadio
Capital District Regional Planning Commission
Tara.Donadio@cdrpc.org
(518) 453-0850

CENTRAL NEW YORK

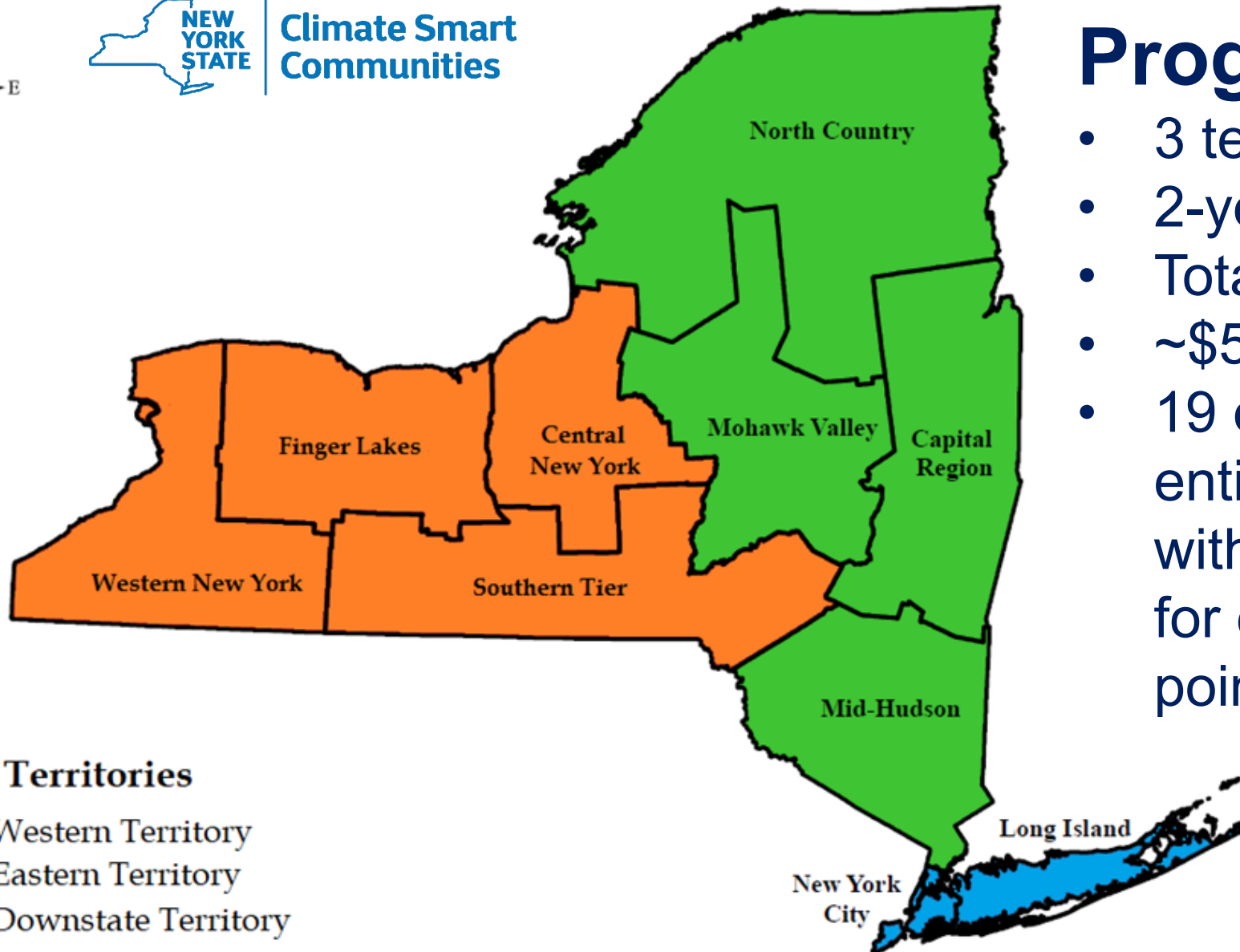
Mike Boccuzzi
Central New York Regional Planning and Development Board
mboccuzzi@cnyrpd.org
(315) 422-8276 x1204

FINGER LAKES

Rachel Scudder
Genesee/Finger Lakes Regional Planning Council
rscudder@gflrpc.org
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Climate Smart
Communities



CSC Territories

- Western Territory
- Eastern Territory
- Downstate Territory

Program Structure

- 3 territories
- 2-year timeframe
- Total: \$3.57 M
- ~\$595k per territory per year
- 19 organizations covering entire state and all tasks, with three leads (“directors”) for each territory as main point of contact with DEC



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Coordinator Tasks Related to Health

Contact [your CSC coordinator](#) to get involved in these projects in your region:

- **Local climate adaptation planning**
 - Local responses to extreme heat, vector-borne disease, etc.
 - Pledge Element 7 actions like [vulnerability assessments](#).
 - Build on [Resilient NY flood risk studies](#).
- **Climate and transportation listening sessions**
 - Participatory dialogues to inform strategies for low-carbon transportation, e.g., increasing the safety of biking and walking in your region.



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Coordinators Purpose Statement



Coordinators will provide **technical assistance and guidance** to local governments that help them **develop their capacity** to play a leadership role in community initiatives that reduce GHG emissions, adapt to the effects of climate change, and thrive in the new green economy.

Coordinators will do this in a way that 1) **generates excitement** among the local governments about building a better future for their communities, 2) respects the **unique nature of their place**, 3) supports continuous **learning**, 4) connects them to available resources, and 5) **fosters strong, mutually beneficial relationships with local, regional, and state partners.**

So that local governments in New York State and their constituents will be inspired to help reverse climate change and improve the **quality of life** in their communities on an ongoing basis.



Goal of the CSC Coordinators: Build Capacity in Communities



NYS DEC Hudson River Estuary Program

Partnerships are key to building capacity.

Who are your potential partners?

Within your county gov't?
Break through silos.

Remember: You are not alone!

There's a role for everyone.
There's help available.
Together we can do this.



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Communities**



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Thank You!

Dazzle Ekblad

Office of Climate Change

NYS DEC, 625 Broadway

Albany NY 12233-1030

climatesmart@dec.ny.gov

cscgrants@dec.ny.gov

zevrebates@dec.ny.gov

518-402-8448



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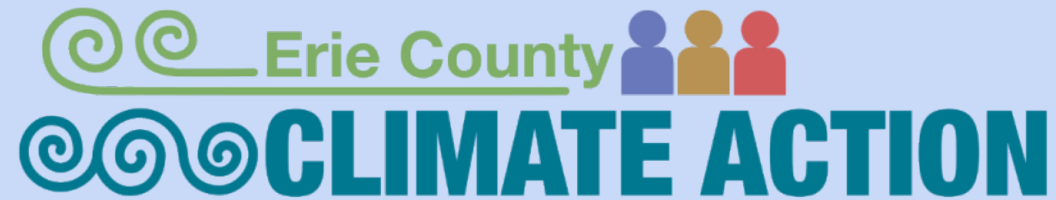
Useful climate-related sites:

- CLCPA: <https://climate.ny.gov/>
- [NY Climate Change Science Clearinghouse](#)
- [Regional GHG Inventories for NY \(2010\)](#)
- [NYS ClimAID report](#) (projections & data)
- [Sustainable Shorelines](#)



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Health Equity and Erie County's Climate Vulnerability Assessment



P. Josh Wilson, Sustainability Director
Erie County Department of Environment and Planning
peter.wilson@erie.gov

Agenda

- Background
- Climate Vulnerability Assessment
- Heat Emergency Plan

Background

- Climate equity and health equity
- Mitigation and Resilience
- Role of Counties

U.S. 2021 Billion-Dollar Weather and Climate Disasters

• Drought/HeatWave Flooding ○ Hail ○ Hurricane ○ Tornado Outbreak W Severe Weather Wildfire @ Winter Storm/Cold Wave

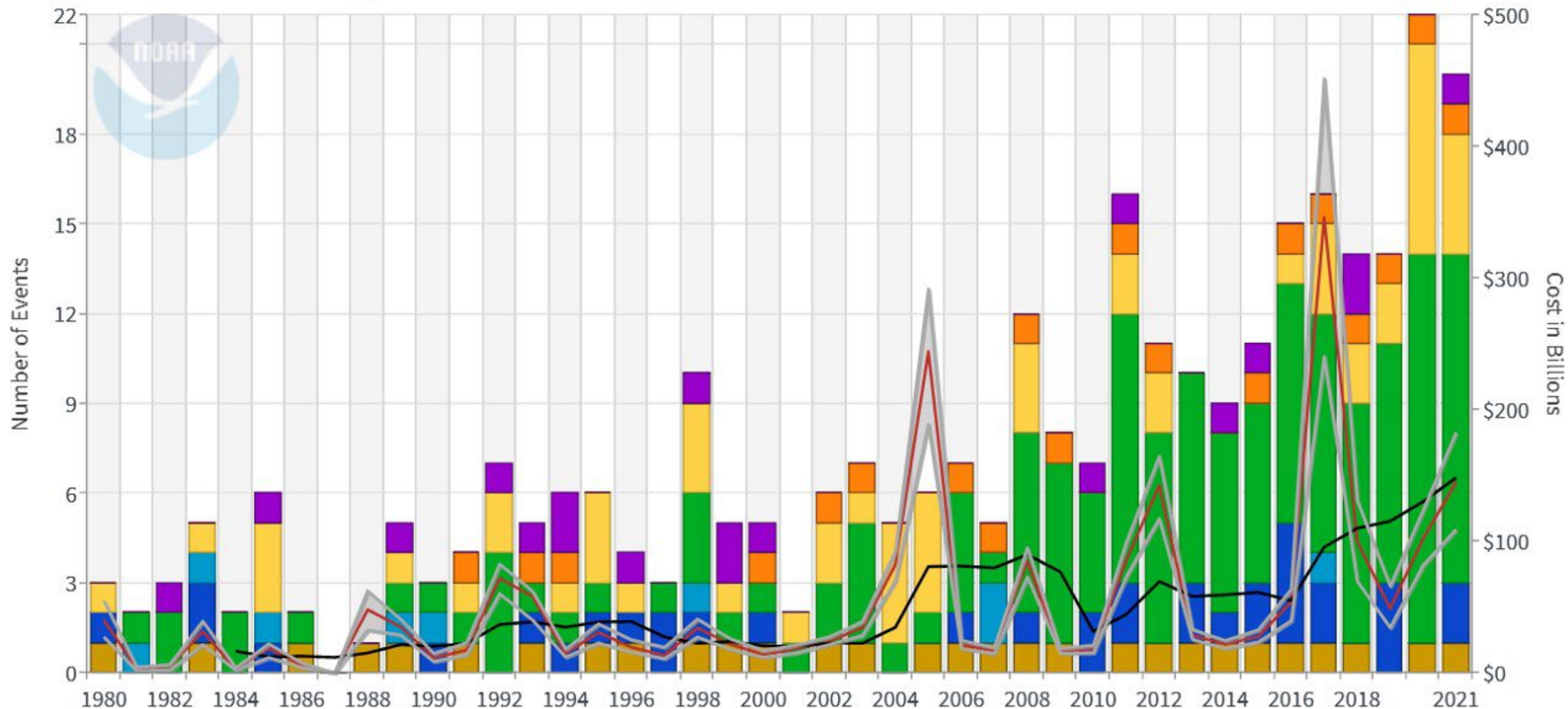


This map denotes the approximate location for each of the **20 separate billion-dollar weather and climate disasters that impacted the United States in 2021**

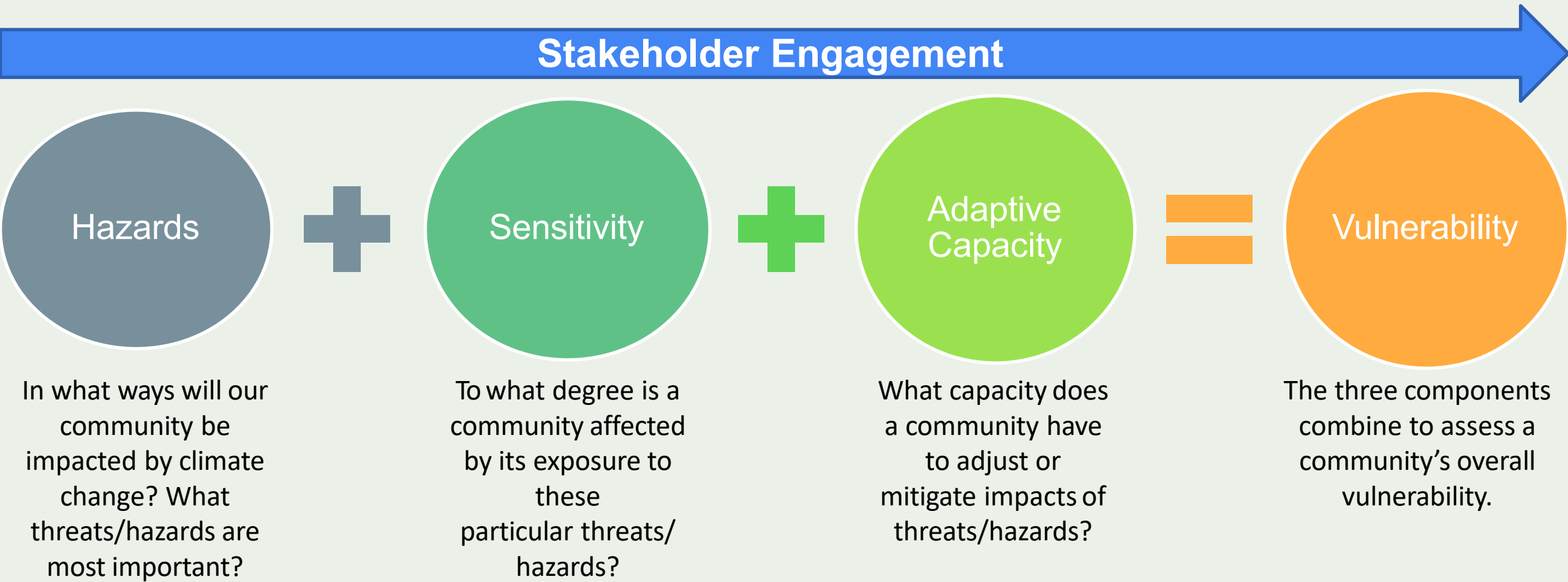


United States Billion-Dollar Disaster Events 1980-2021 (CPI-Adjusted)

- Drought Count
- Flooding Count
- Freeze Count
- Severe Storm Count
- Tropical Cyclone Count
- Wildfire Count
- Winter Storm Count
- Combined Disaster Cost
- Costs 95% CI
- 5-Year Avg Costs



Climate Vulnerability Assessment Process



Stakeholder Engagement

www.erie.gov/climateaction



1 Minute:

Sign up for email updates on
Erie County Climate Action



5 Minutes:

Share Erie County Climate Action
images & content on social media



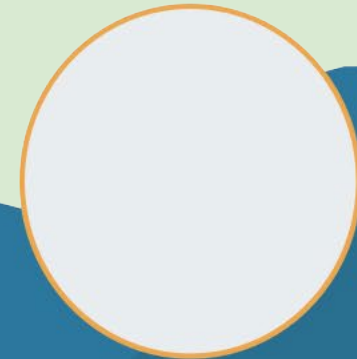
10 Minutes:

Take the Community Survey to provide
feedback on how climate change has
impacted you



30 Minutes:

Meet with Erie County Dept.
Environment & Planning Staff



























1 Hour a Month

Be a Climate Action Ambassador to
represent your community!

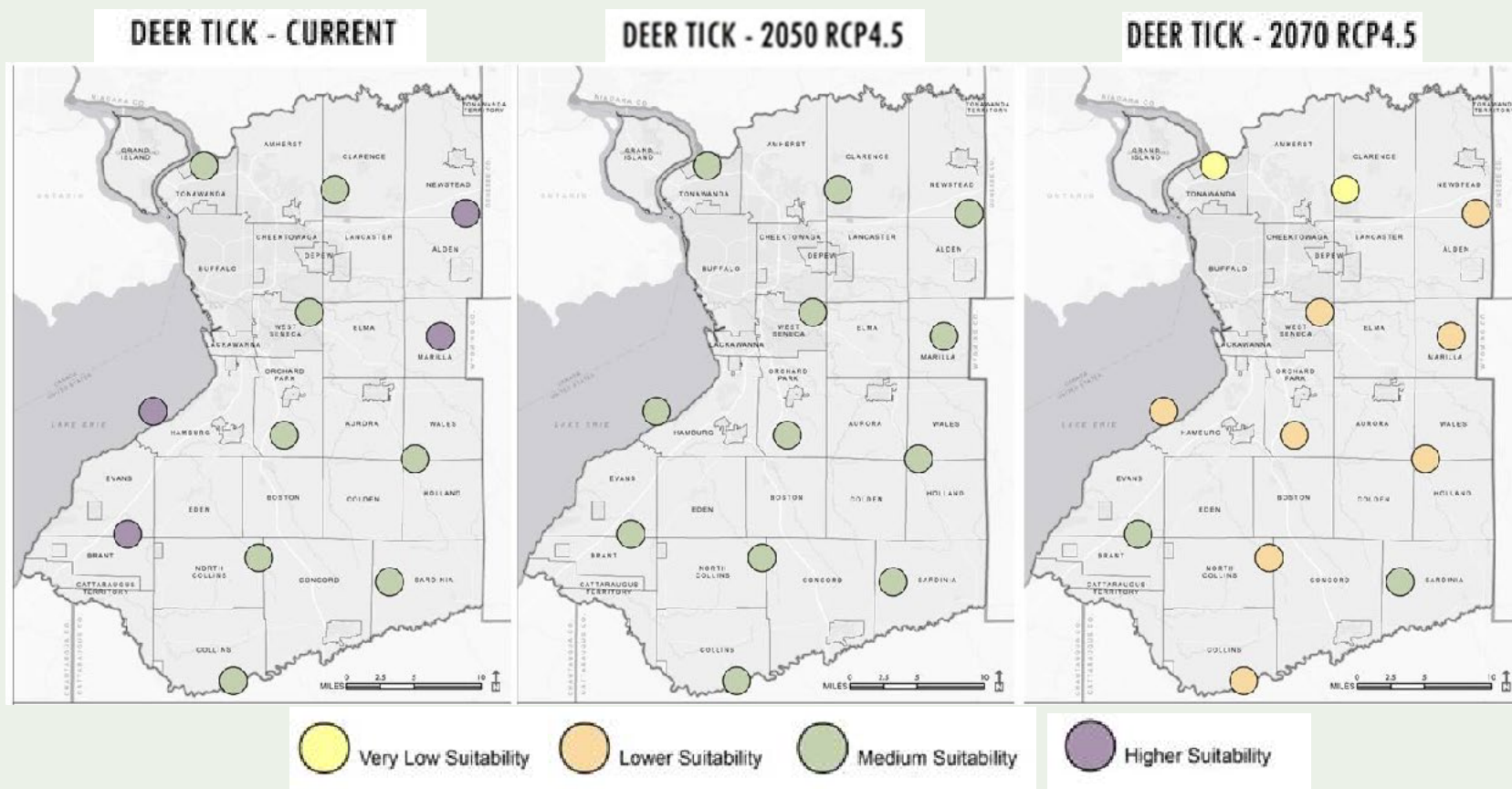
Hazards Assessment

	Frequency & Duration	Jurisdiction	Impact
Temperature	●	●	●
Precipitation/Wind	●	●	●
Biological Threats	●	●	●
Impacts to Soils	●	●	●
Coastal Erosion	●	●	●
Earthquake	●	●	●
Wildfire	●	●	●
Tornados	●	●	●

Hazards Assessment

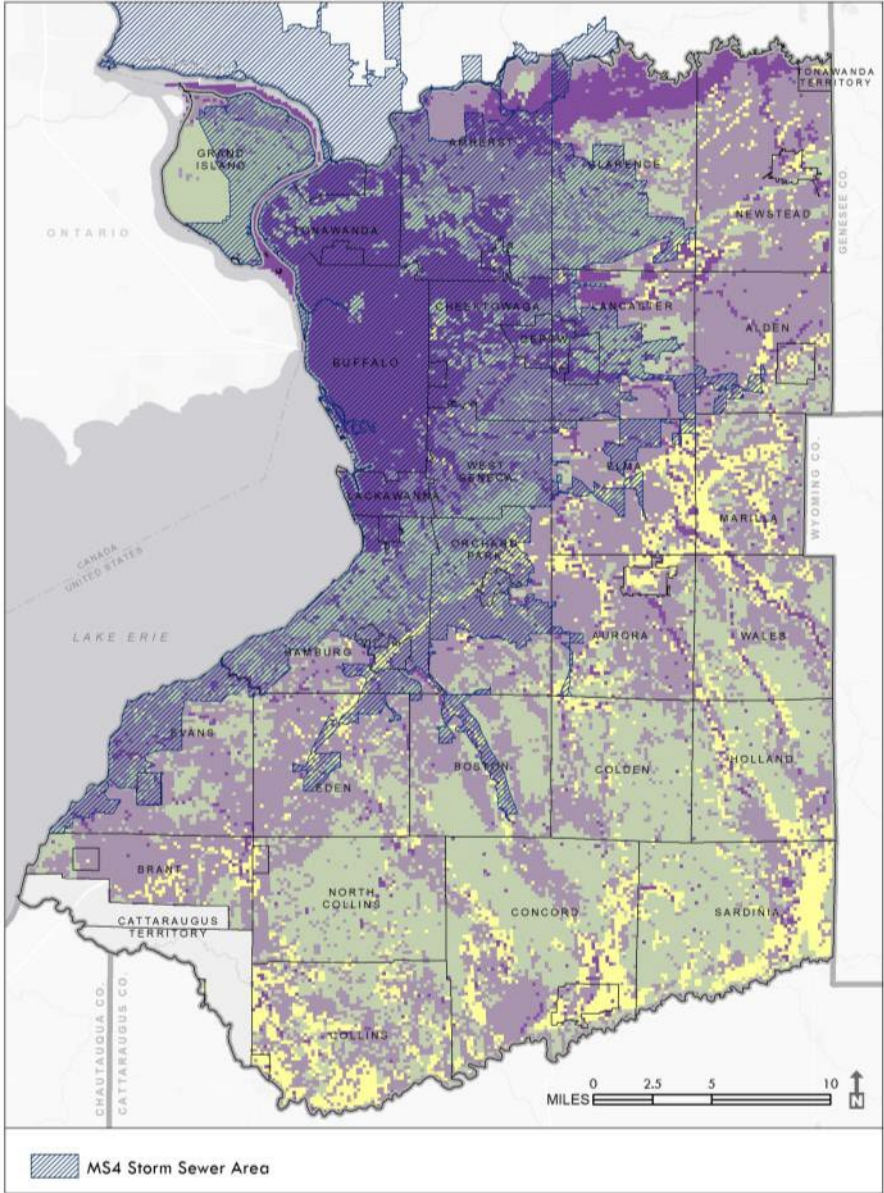
	Frequency & Duration	Jurisdiction	Impact
Temperature			
Precipitation/Wind			
Biological Threats			
Impacts to Soils			
Coastal Erosion			
Earthquake			
Wildfire			
Tornados			

Vector-Borne Disease – Deer Tick



Habitat suitability changes for the native Deer Tick for current and future warming conditions in Erie County. Results indicate less favorable conditions for this particular native species in the future, as the climate warms.

Sensitivity to Local Flooding



OVERALL SENSITIVITY

Far Below Average

 Below Average

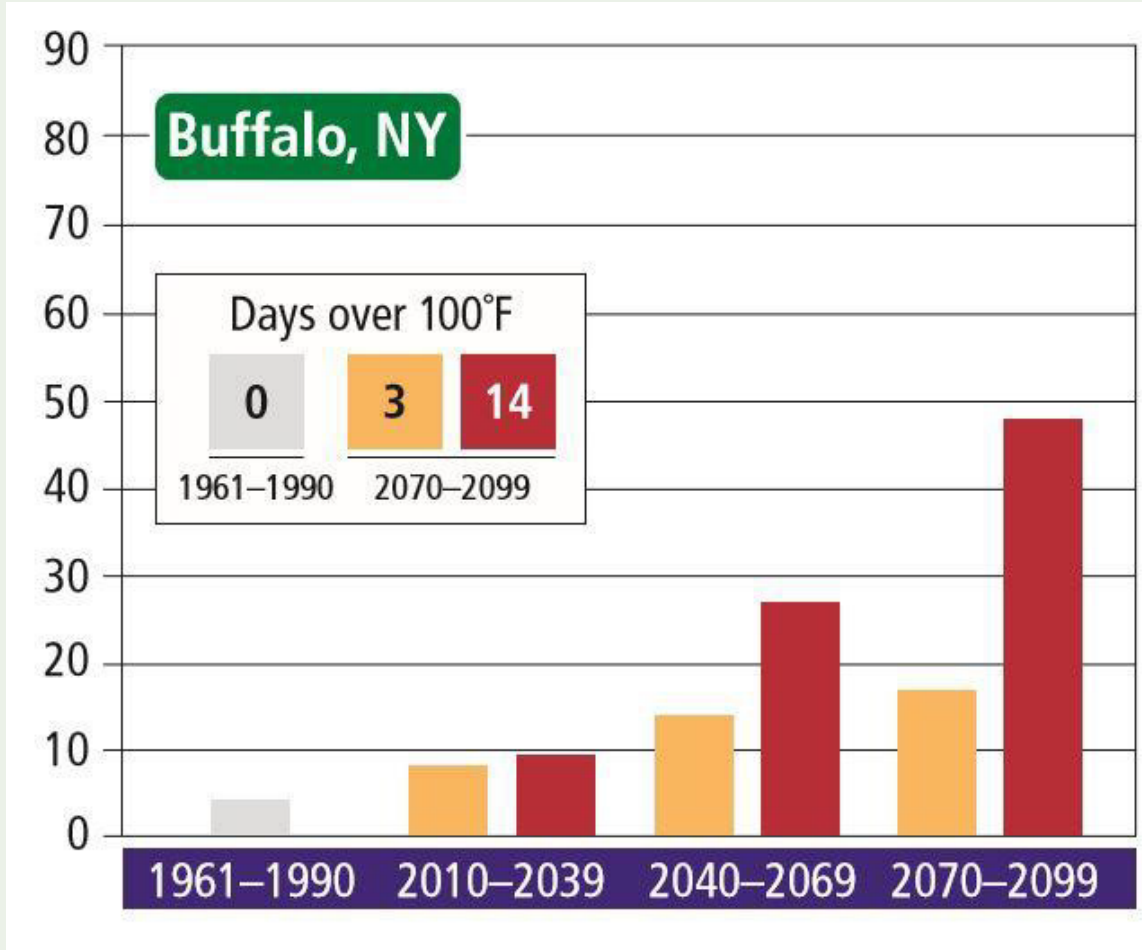
 Average

 Above Average

 Far Above Average

 Average

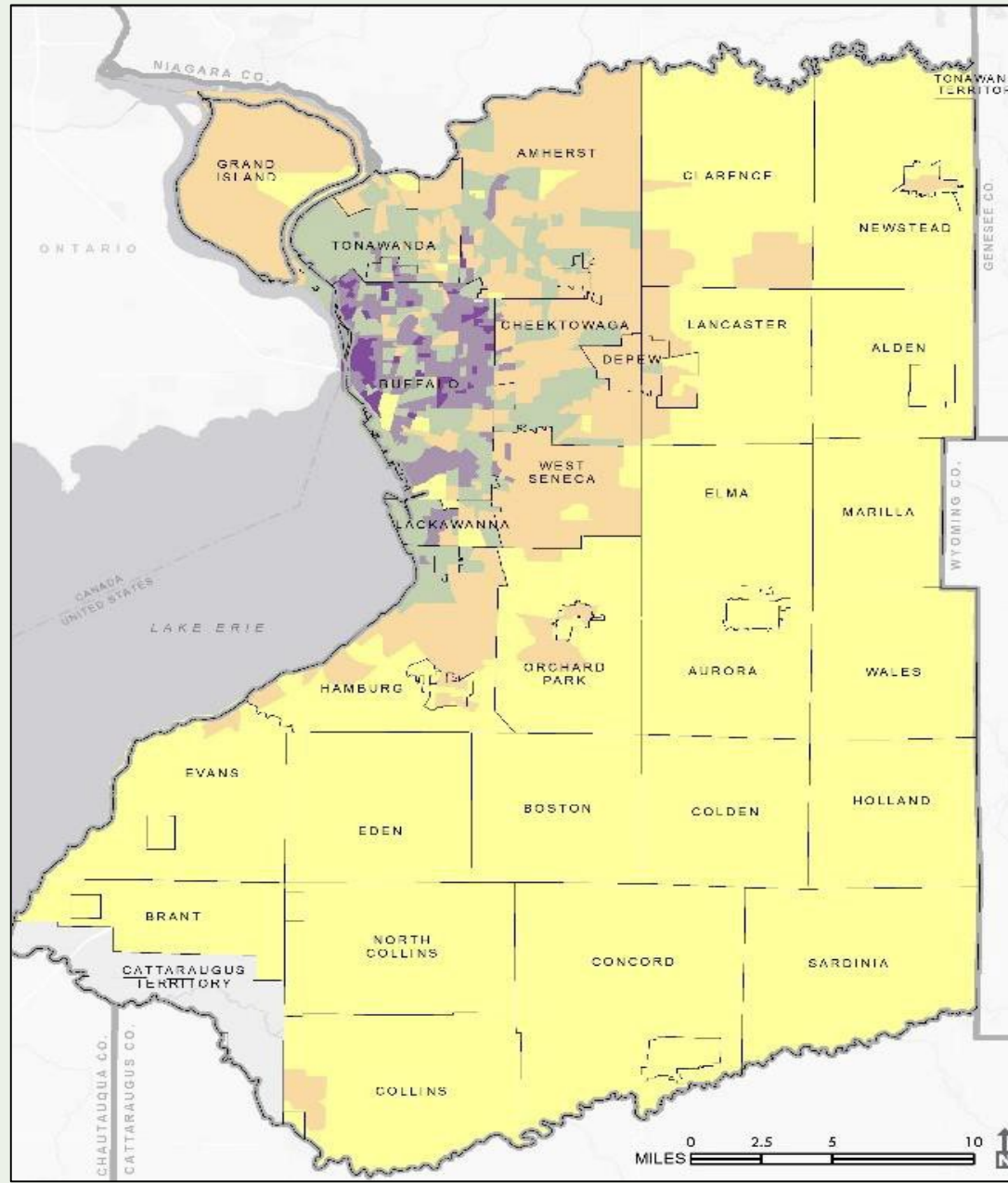
Extreme Heat



The number of days over 90°F in large northeastern cities is projected to increase in the coming decades until, by late-century, some cities could experience nearly an entire summer of such days under the higher-emissions scenario. Projections under this scenario also show a dramatic increase in the currently small number of days over 100°F (as depicted in the inset boxes).

Frumhoff et al

Sensitivity to Heat



OVERALL SENSITIVITY



Adaptive Capacity

- Mitigation
- Preparation
- Response
- Recovery

Temperature		
Department	Issues	Adaptive Capacity
DEP Geographic Information Systems	Spatial and temporal patterns of temperature-related hazards and the vulnerable communities that are sensitive to extreme heat	<i>Preparation:</i> Assist in data provision, mapping
Sewerage Management	High temperatures cause increased mechanical weathering and can result in dry sewers	
	Biological treatment may experience limited efficacy during extreme temperatures	
Parks, Recreation & Forestry	Employee health and safety in extreme conditions when traveling or working outdoors	<i>Mitigation:</i> Precautionary policies to ensure risk is minimized
Homeland Security & Emergency Services	Increased duration, intensity, and frequency of extreme heat events	<i>Response:</i> Coordination with Erie County Library system to provide cooling centers and other forms of shelter during extreme events
Health	Health impacts of extreme heat, particularly for most vulnerable populations	<i>Preparation:</i> Public health bulletins warning the public of extreme events
	Extreme heat can result in increased atmospheric ozone, degrading air quality. This can be a health concern for some vulnerable communities	<i>Preparation:</i> Public health bulletins warning the public of extreme events
Social Services	Vulnerable communities lack access to cooling units for their homes, which may exacerbate health conditions during heat waves	<i>Mitigation:</i> HEAP provides air conditioners through programs that fund purchase and installation of cooling units.
Senior Services	Elderly residents of the county are particularly sensitive to heat-related impacts, while at the same time lack mobility.	<i>Preparation:</i> Senior alert programs via phone call and text message to increase awareness of potential issues related to extreme heat.
Public Works	Control of climate in County-owned buildings is necessary for the health and wellbeing of employees, yet can be expensive and resource-intensive	<i>Preparation:</i> Energy performance contracts are in place to improve efficiency and weatherization
	Increased risk of heat-related issues among employees, especially those working outdoors	<i>Mitigation:</i> Projects are scheduled during the coolest part of the day and employees are encouraged to drink plenty of water and take frequent breaks
	County-owned roadways are at risk of heat-related damage during extreme heat events	<i>Mitigation:</i> Roadways are engineered according to designs suitable for southern climates, making them resilient in the event of a heat wave.

Next Steps

- Finalize CVA
- Community Climate Action Plan
- Heat Emergency Plan



www.erie.gov/climateaction

www.erie.gov/cva

Thank you!

P. Josh Wilson

peter.wilson@erie.gov

Funding Local-Level Climate Health Work

“SELLING” A PUBLIC HEALTH APPROACH TO EQUITABLE AND SUSTAINABLE MITIGATION AND ADAPTATION ACTION

Climate Health, Surveillance, and Policy

- ❖ Four pillars of our Climate Health work
 - ❖ Applied climate-related public health research and health impact assessment
 - ❖ Policy development and advocacy
 - ❖ Community-centered programmatic efforts
 - ❖ Environmental data communications
- ❖ Foundation laid with CDC funding
- ❖ Challenge: moving from pilot phase, external funding to integrated, established program



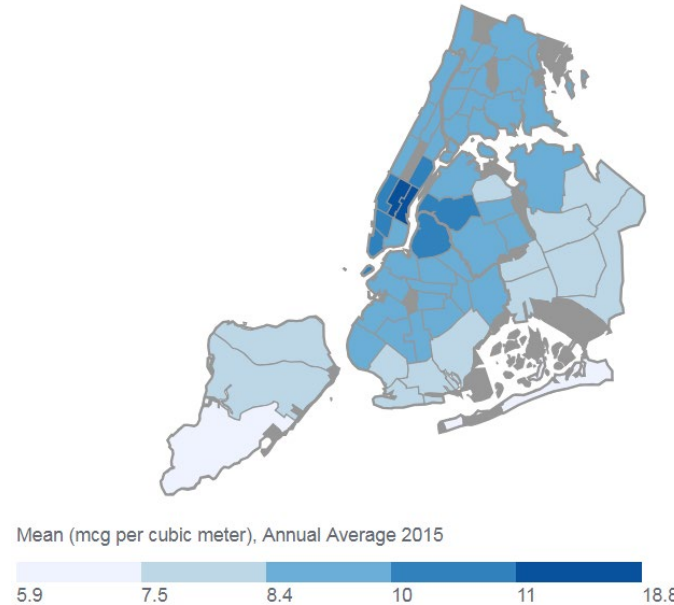
CLIMATE + AIR QUALITY

Calculating co-benefits

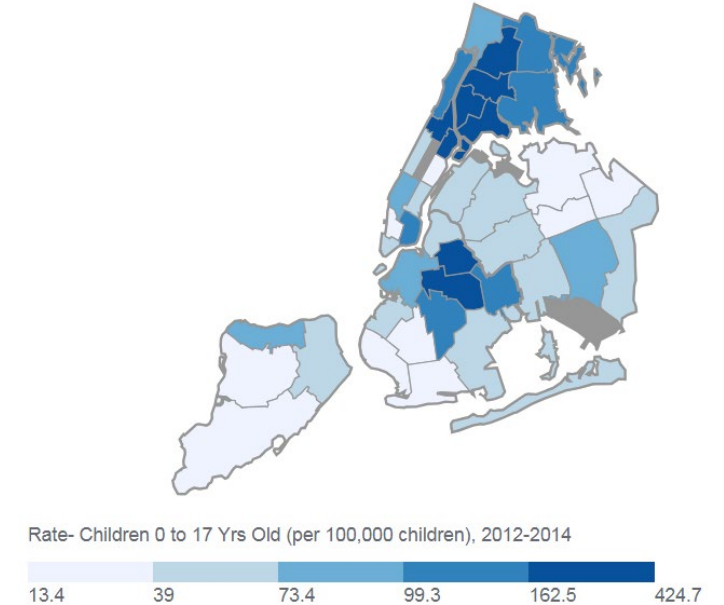
Air pollution-attributable
health impacts

Neighborhoods with the most health impacts don't have the worst air quality

Neighborhood Air Quality Fine Particulate Matter (PM_{2.5}) - Mean (mcg per cubic meter), Annual Average 2015, CD



PM_{2.5}-Attributable Asthma Emergency Department Visits - Rate- Children 0 to 17 Yrs Old (per 100,000 children), 2012-2014, UHF42



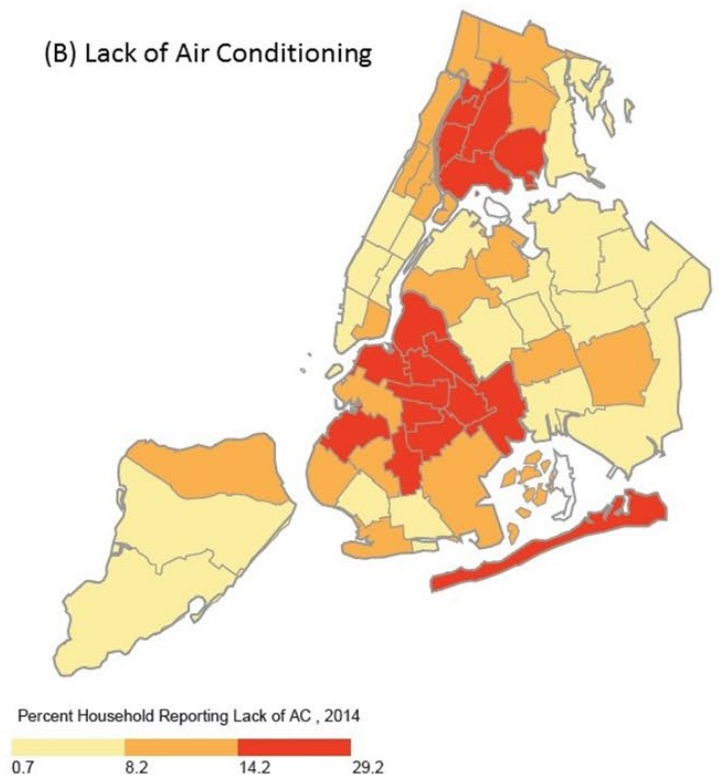
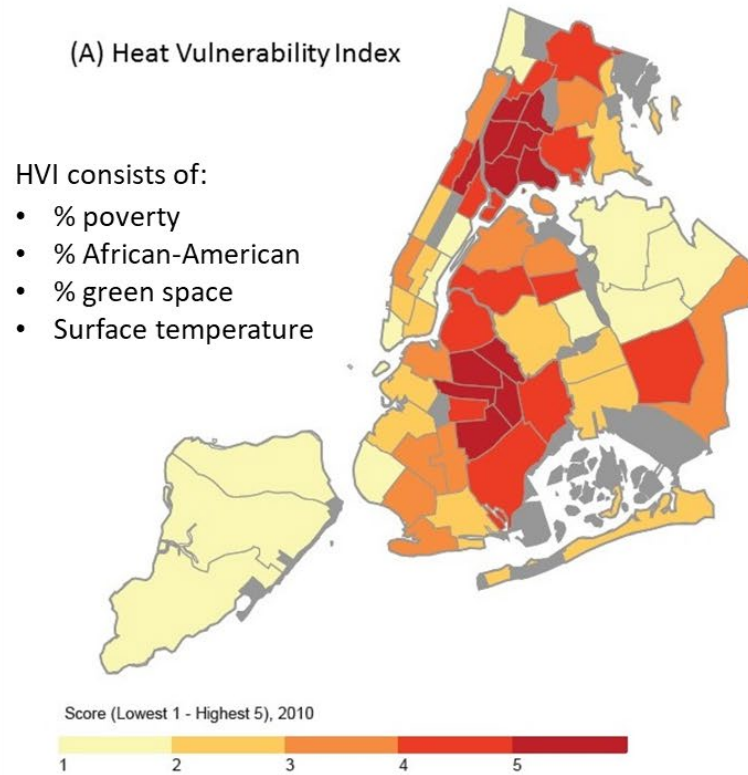
cobra.epa.gov

Funding opportunities:

- Partnerships with local/state environmental, transportation and energy organizations

HYPER- LOCAL RESILIENCY

Partnerships with
community organizations



- Community organizations
- Houses of worship
- Home-based care providers
- Community health workers

Funding opportunities:

- Foundation and other grant funding
- Non-profit lead on applications

EMBED CLIMATE HEALTH

Earmarking existing funding

Joining efforts to secure
funding for related projects



Funding opportunities:

- Housing programs: sustainability, resiliency + health
- Emergency preparedness
- Existing health outreach programs (CHWs)

Thank you!

QUESTIONS?

CAROLYN OLSON – COLSON@HEALTH.NYC.GOV

Climate Change:

Linking Physical, Mental and Community Health



Hunter L. McQuiston, MD
Clinical Professor of Psychiatry
NYU Grossman School of Medicine | NYU Langone Health

Social Determinants of Health



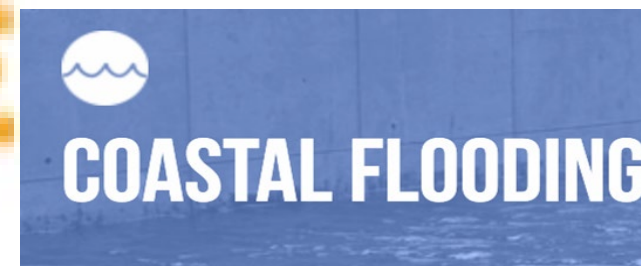
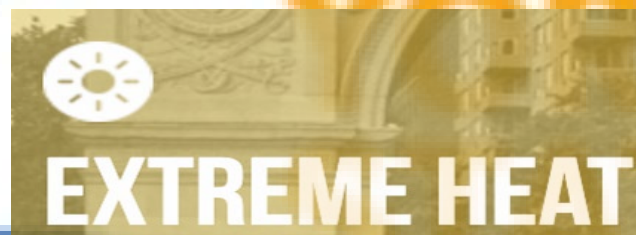
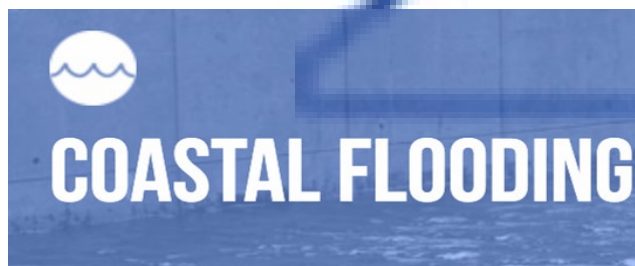
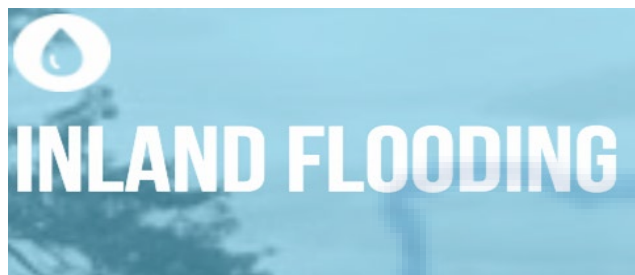
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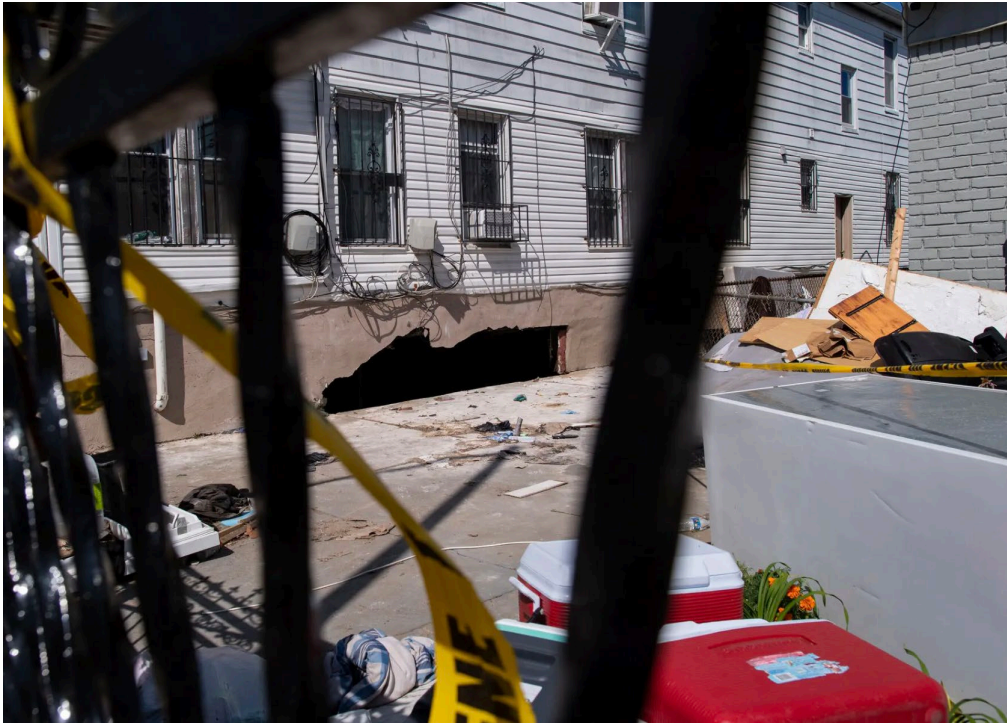
Acute

subacute

Long-term



ACUTE: Flooding Disasters....



<https://www.nytimes.com/2021/09/02/climate/new-york-rain-floods-climate-change.html>

Acute Disasters Beget Unexpected Crises



Western Wildfire smoke create haze in the Bronx

July 20, 2021; (ErickAdameOnTV)

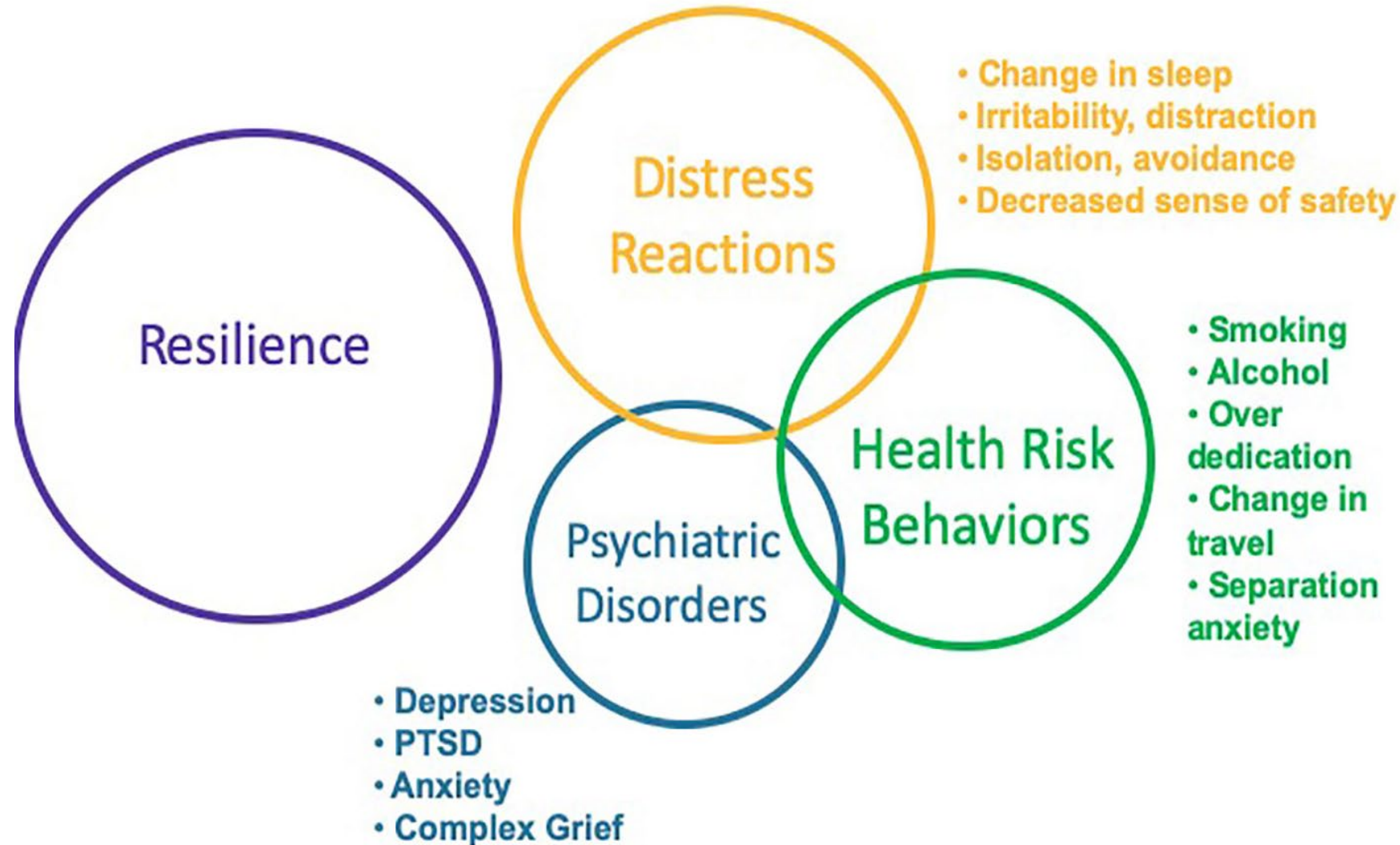
Disasters -secondary impacts

- Loss of livelihood
- Loss of community, connections
- Supply chain interruptions
- Loss of Infrastructure
- Loss of services
 - Breakdown of health & mental health delivery system



2012: Superstorm Sandy:
300 NYULangone + 500 Bellevue patients to other hospitals

Psychological and Behavioral Responses to Acute Disasters



Heat

SUBACUTE: Extreme Heat

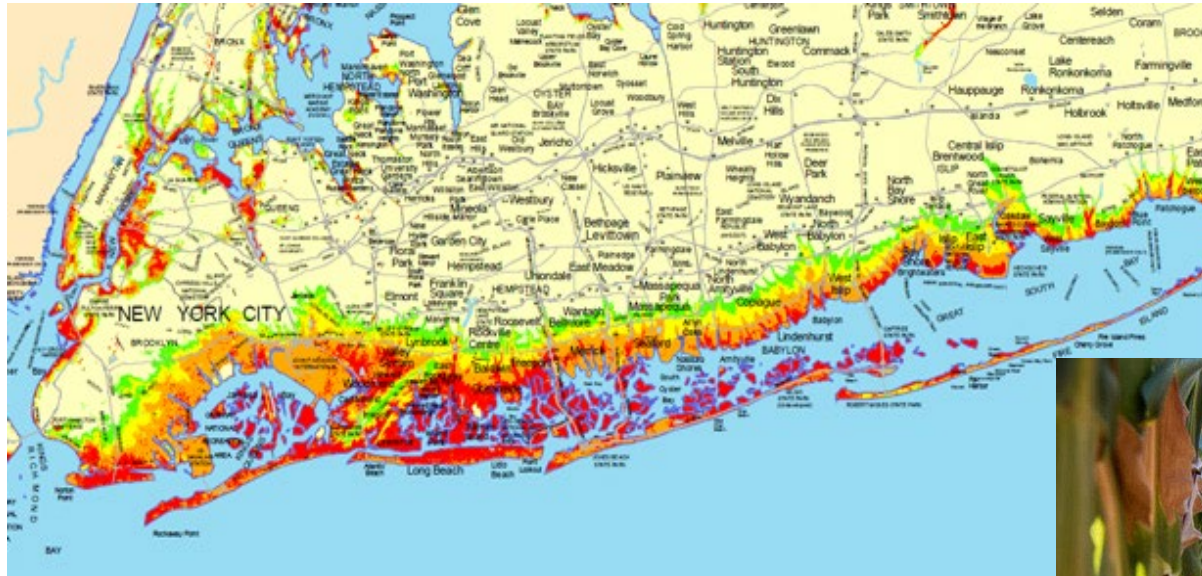
MENTAL AND BEHAVIORAL EFFECTS:

- Increases in interpersonal and group violence
- Increases in suicide
- Impaired cognition and concentration
- Impaired sleep
- Impaired mood stability
- Psychotropic and other medications impair temperature homeostasis



PHOTO SOURCE: Cityofpasadena.net: 2019
No copyright infringement is intended

LONG TERM: Sea Levels and Drought



 CATEGORY 1  CATEGORY 2  CATEGORY 3  CATEGORY 4

Neighborhoods disappear
Displacement



No rain = no food = no human nutrition => illness and social unrest

VULNERABLE POPULATIONS

- ELDERLY: esp. isolated
- YOUTH :kids and adolescents
- BIPOC
- INDIGENT
- HOMELESS
- CHRONIC MEDICAL ILLNESS
- MENTAL HEALTH
POPULATIONS

Populations at Greatest Risk



Young People are Anxious: Interfere with their daily lives

Hickman, et al.

Lancet Planetary Health: Dec 2021



Interviewed:
10,000 (age 16 thru 25 y/o) in 10 nations

- **Worried/extremely worried:** 60%, Angry, Sad
- **Future is frightening:** 75% worldwide
- **“Humanity is doomed”:** >50% worldwide
- More than 45% of said feelings about climate change **negatively affected their daily life and functioning**
- Climate anxiety and distress correlated with **perceived inadequate government response;** associated feelings of betrayal.

Credit: James Veysey/Shutterstock

Source : Nature Sept 18, 2019



Wide Range of emotional responses to living in world confronted by climate crisis (solastalgia)

- **Existential distress**
- **Worry to Anxiety**
- **Sadness, grief**
- **Depression**
- **Anger**



LET'S TALK SOLUTIONS



Thinking About Needs:

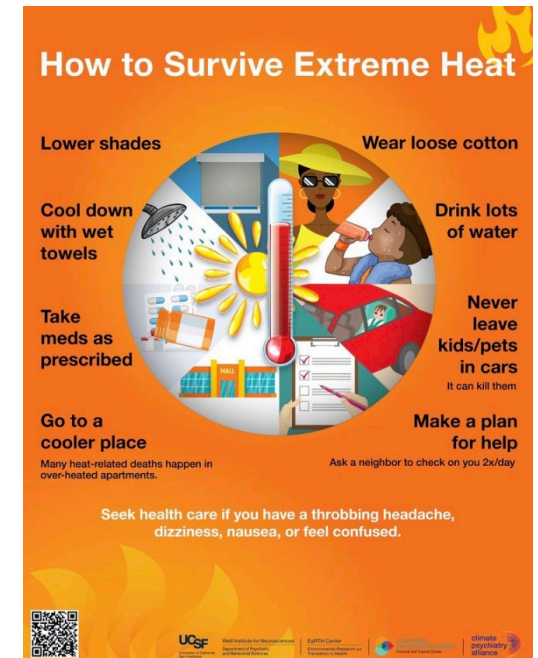
Acute Events (Disasters)

- Pre-disaster: Health sector infrastructure
 - Support infrastructure: access to electronic health records
 - Increase capacity to mobilize mental health teams
 - crisis stabilization for the most vulnerable
 - Design longer term access to resources, including mental health care
 - Emotional toll goes on beyond FEMA response
 - Supply chain issues
 - medication stockpiling and availability
- Disaster Response
 - “Task Shifting” (per WHO)
 - Train grassroots (teachers, community workers, first responders, etc.)
 - Psychological first aid (PFA) in disaster response
 - EBPs

Thinking About Needs:

Subacute and Long-term

- Public communication, alerting systems
 - Do we reach those with mental illnesses and other vulnerable populations?
- Adequate case management for vulnerable folk and their expanded needs during extreme heat (as well as disasters)
 - Does collaboration among natural community leaders exist?
 - How can we mobilize neighbors?
- Extreme Heat and Drought
 - Farmers during drought – at risk for suicide. Community interventions.
 - Impoverished communities: cooling centers *that will be used*



To be “part of the solution”

Macro --Increased use of peer support, lay leaders, and community programs to scale up responses to population-level and global anxieties and for psychiatric conditions

- With Increased attention to those populations with high pre-existing social determinants of illness

Micro --Treating solastalgia –Forming positive emotions associated with a sense of agency:

- Sense of meaning/purpose
- Pride
- Collegiality
- Helping to making a difference

Thank you!

- Behavioral health Interventions

- Climate Psychiatry Alliance

<https://www.climatepsychiatry.org/resources-to-mitigate-climate-distress>



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<https://climatecommunication.yale.edu/publications/climate-change-in-the-american-mind-december-2018/2/>

Interview with Dr. Ed Maibach

[Link to Video](#)

Preview of Topic-Specific Workshops

Topic-Specific Workshops

Wednesday,
Oct. 26th

- Extreme Heat
- Weather Vulnerability

Thursday,
Oct. 27th

- Flood Mitigation
- Storm Response
- Emergency Response Framework

Wednesday,
Nov. 2nd

- Complete Streets
- Climate Smart Communities
- Environmental Improvements

Thursday,
Nov. 3rd

- Vector-Borne Diseases
- Harmful-Algal Blooms
- Food Security

Preparing for Workshops: Next Steps

- Register for the workshop(s) you plan to attend!
 - Early registration encouraged (by October 19th)
- Identify and invite community partners to attend the workshop(s)
 - Community partners will need to register in order to attend

Fall 2022 Virtual Climate & Health Adaptation Workshops



To move the needle forward on addressing the health impacts of climate change, NYSACHO and NYSDOH are hosting virtual workshops. At the workshops, local health departments (LHDs) and their community partners will hear updates and examples of climate adaptation activities, and then work together on next steps that fit the priorities and resources of their agencies and organizations.

These workshops will be held in [Zoom](#) and are **free to attend!**

Who Should Attend?

LHD staff who are:

- Responding to impacts in their communities (e.g. extreme heat, flooding, food insecurity, vector-borne disease)
- Interested in starting or expanding climate and health adaptations
- Interested in learning more about what others may be doing in this area

Community partners who are working or might be interested in working on climate adaptation activities:

- Local government agencies (e.g. sustainability offices, town leaders, planning departments)
- Organizations (e.g. Cornell Cooperative Extension, school groups, faith-based communities)
- Other climate adaptation champions, such as Climate Smart Community Coordinators!

How to Register

Click on the links below to register for the plenary sessions and one or more topic-specific workshops.

Plenary Sessions (9:00 - 11:00 AM) | [Click here to register for both sessions!](#)

These sessions will provide updates and set the stage for the topic-specific workshops.

Sept. 29: Part I - State and Local Highlights

Sept. 30: Part II - Cross-Cutting Issues

Note: Plan to attend both parts of the plenary!

Topic-Specific Workshops (9:00 AM - 12:00 PM)

Each workshop will provide a content overview, followed by breakout sessions for LHDs and their community partners. LHDs and topic-specific partners can register for one or more of these workshops.

Oct. 26: Extreme Heat, Weather Vulnerability | [Register here](#)

Oct. 27: Flood Mitigation, Storm Response, Emergency Response Framework | [Register here](#)

Nov. 2: Complete Streets, Climate Smart Communities, Environmental Improvements | [Register here](#)

Nov. 3: Vector-Borne Diseases, Harmful Algal Blooms, Food Security | [Register here](#)



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Questions?

Use the chat box or use the “raise your hand” feature to ask your question(s)!