



Department
of Health



Climate & Health Adaptation Workshops

Flood Mitigation, Storm Response, Emergency Response Framework

October 27th, 2022

IMPORTANT INFORMATION!

- For those who have joined via phone before logging in on your computer...
 - To sync your online and phone presence, click on the audio icon (should look like a headset)
 - Select “switch to phone audio” or “phone call” and follow the directions that come up on your screen
 - When your phone and online presence are synced, the audio icon should look like a phone

Thank You!

To the grants that supported these workshops...



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



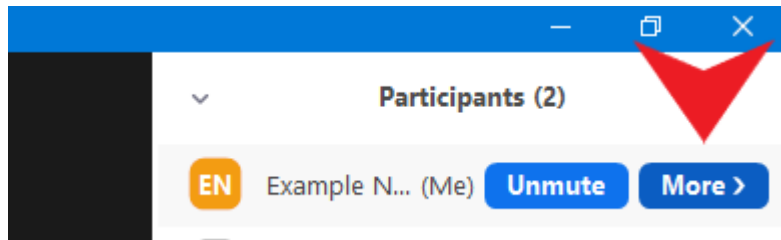
CDC-RFA-EH17-1702
CDC-RFA-EH22-2202

...and to the planning team that brought these workshops to life!

- ❖ Neil Muscatiello
- ❖ Faith Schottenfeld
- ❖ Kristen Vacca
- ❖ Laura Agnew
- ❖ Sarah Ravenhall
- ❖ Cristina Dyer-Drobnack

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"

Today's Agenda

9:05 – 10:00 AM

Content Overview

10:00 – 10:15 AM

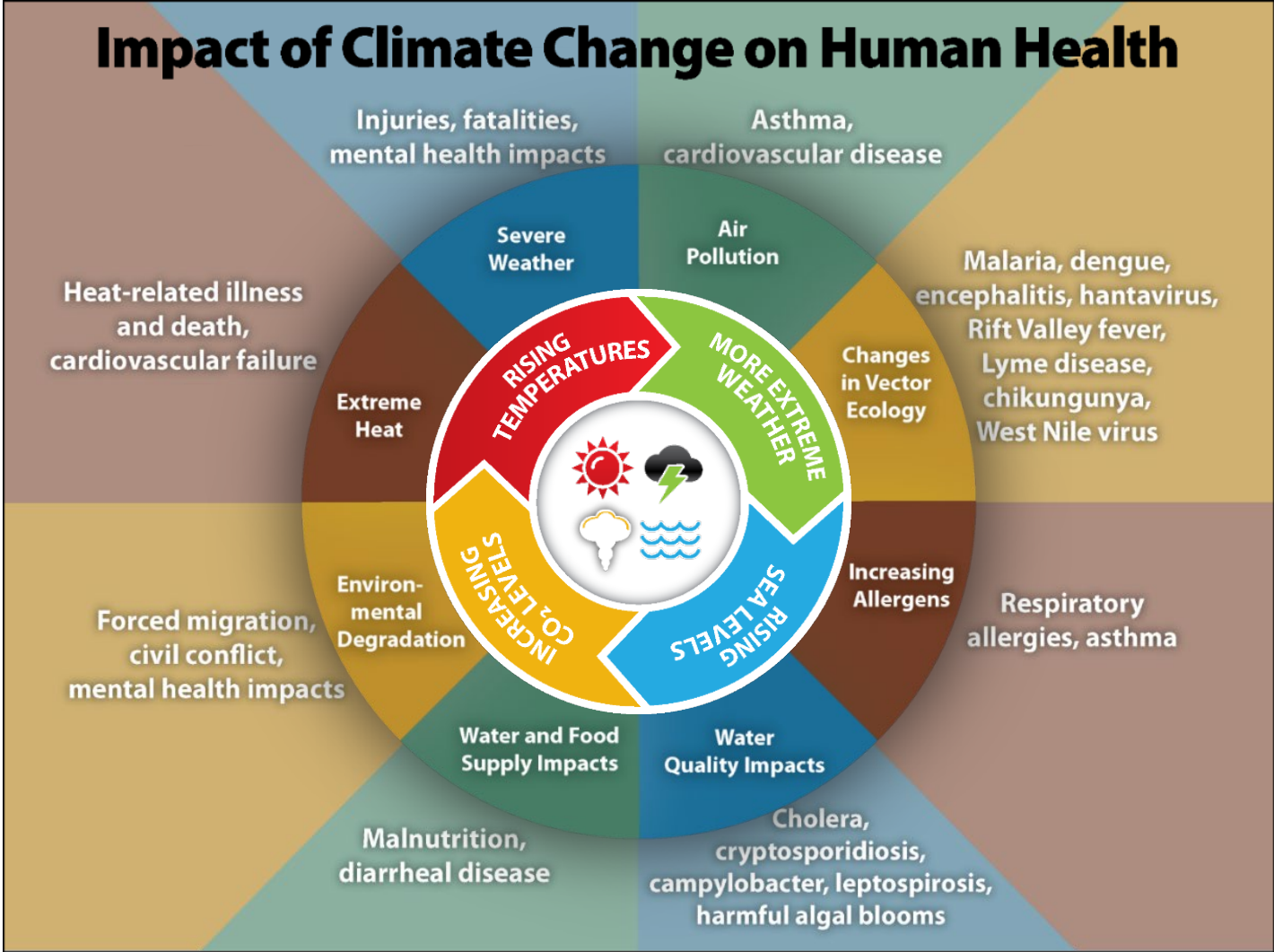
Break

10:15 – 11:25 AM

Breakout Sessions

11:25 AM – 12:00 PM

Report Out



Source: Centers for Disease Control and Prevention, Climate and Health Program

Broome County Public Health Flood Response

Photo: Capt. Vincent Monticello
Civil Air Patrol



Sept 8, 2011 2:55PM
Binghamton, NY

10/24/2022



Two 500-hundred-year flooding events 5 years apart



Public Health Response Needs: Space-Stuff-Staff



10/24/2022

9



Space



Stuff



10/24/2022

1
1



More Stuff



What we started with VS What we have now



10/24/2022

1
3



Staff



10/24/2022

1
4



Shelter Surprises

School Buses

Recurring Medical Appointments (Dialysis, Chemo, etc.)

Hospital Discharges to shelter

EMS transporting individuals to shelter

“Bounce-Backs” to shelters

Law Enforcement (Orders of Protections)

Mental Health



Transports



nature of complaint	count
chest pain	10
altered consciousness	9
musculoskeletal injury	8
fall	6
abdominal pain	5
general malaise	5
respiratory	3
gastrointestinal	2
neurological	3
emotional	1
head injury	1
hypotension	1
pregnancy-related	1
upper respiratory	1

Relationships Matter!

- Binghamton University
 - Incident command team
 - Facilities
 - Food service
 - Decker School of Nursing
 - Harpur's Ferry Ambulance Service
 - Law Enforcement
 - ~6000 student, faculty, and staff volunteers
- Hospitals
 - Family practice residents
 - Attending physicians
 - Nurses
 - Pharmacists
 - Respiratory therapists
 - Home care
- Mental Health
- Social Services
- Security
- CASA
- Animal response team
- Churches, volunteer agencies, local businesses, Individuals
- Medical Reserve Corps
- Fire Department of New York
- New York National Guard
- SUNY Cortland Campus Rescue
- SUNY Oneonta Emergency Squad

Mitigation

Planning and Preparedness

Inundation maps

Flood walls

New construction techniques

Flood prone areas turned green
spaces



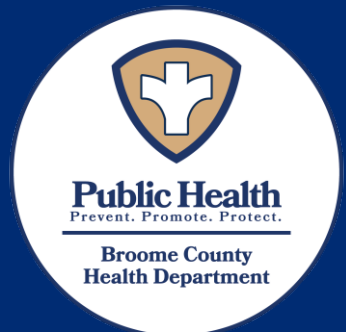
Flood Walls



MacArthur Elementary School



Courtesy of Bill Walsh



New Construction Techniques



Green Spaces



Lessons Learned

- Establish relationships
- Plan to be on your own for 3 days minimum
- Utilize and trust the ICS Structure
- Don't build where it floods, if you can't move it, protect it
- Prepared for obesity and immobility
- Good chronic disease management is good disaster preparedness
- Create and update plans
- Stockpile supplies





**Homeland Security
and Emergency Services**

Hazard Mitigation Program

October 27, 2022

HAZARD MITIGATION

Sustained actions that reduce or eliminate long-term risk to people and property from future disasters

- Creates safer communities, reduces loss of life and damage to improved property, and diminishes financial and emotional stress
- Breaks the cycle of disaster damage and loss
- Allows communities to rebuild more quickly
- Saves money: every mitigation \$1 spent avoids an average of \$6 in future damages



Homeland Security
and Emergency Services

Hazard Mitigation Programs

Hazard Mitigation Grant Program (HMGP)

Funding made available following a federal disaster declaration in New York

Building Resilient Infrastructure & Communities (BRIC)

Nationally competitive and announced annually, subject to Congressional appropriation

Flood Mitigation Assistance Program (FMA)

Nationally competitive and announced annually, subject to Congressional appropriation

Hazard Mitigation Grant Program (HMGP)

HMGP assists communities in rebuilding in a better, stronger, and safer way in order to become more resilient overall. The grant program is available after a presidentially declared disaster and can fund a wide variety of mitigation projects including:

- 1) Mitigation Planning & Enforcement
- 2) Flood Protection
- 3) Retrofitting
- 4) Construction

New York State establishes priorities for each HMGP funding cycle.

Building Resilient Infrastructure and Communities (BRIC)

BRIC replaced the Pre-Disaster Mitigation (PDM) program and prioritizes comprehensive, long-term risk reduction strategies that improve public infrastructure, mitigate risk to one or more Community Lifelines, incorporate nature-based solutions, and support adoption and enforcement of improved/modernized building codes.

1) Capability and Capacity Building (C&CB)

C&CB activities are those which enhance the knowledge, skills and expertise of the current workforce to expand or improve the administration of mitigation assistance.

2) Mitigation Projects

Cost-effective projects designed to increase resilience and public safety, reduce injuries and loss of life, and reduce damage to property, critical services, facilities, and infrastructure.

Flood Mitigation Assistance (FMA)

The FMA program is specifically designed to reduce or eliminate the risk of repetitive flood damage to buildings and structures insured under the National Flood Insurance Program (NFIP).

1) Project Scoping (previously Advance Assistance)

Activities to develop community flood mitigation projects and/or individual flood mitigation projects that will subsequently reduce flood claims against the NFIP.

2) Community Flood Mitigation Projects

Projects that address community flood risk for the purpose of reducing NFIP flood claim payments. Examples include, but are not limited to:

- Stormwater management
- Localized flood control
- Floodwater storage and diversion
- Floodplain and stream restoration
- Wetland restoration/creation



Requirements: Applicants

Eligible Applicant: NYS, acting through DHSES

Eligible Sub-applicants:

- State agencies & local governments
- Federally-recognized Indian Tribal Governments
- State-recognized Indian Tribes
- Private non-profits providing government services (HMGP only, not BRIC or FMA)
- Individuals/businesses are not eligible applicants, but may be represented by their local government



Requirements: Justice40

The Justice40 initiative establishes a goal that 40 percent of the overall benefits of certain federal investments flow to disadvantaged communities that are marginalized, underserved, and overburdened by pollution.

Hazard Mitigation Assistance programs are included in those covered by the federal Justice40 initiative.

New York State is prioritizing Hazard Mitigation Assistance funding for the highest-risk communities and underserved populations. Mechanisms for achieving this objective are outlined in Notices of Funding.

Requirements: FEMA-Approved Mitigation Plans

- Sub-applicants seeking project funds must be covered by a current hazard mitigation plan
[A current mitigation plan is one approved by FEMA and adopted by the community; some plans cover a community while others were regional or county-wide efforts]
- Sub-applicants that have begun the update process when grants are announced are potentially able to meet this requirement

Requirements: Eligibility Criteria

All mitigation projects must:

- Be technically feasible
- Be proven cost-effective using FEMA's Benefit-Cost Analysis (BCA) v6.0 software;
- Include a BCA containing all back-up/supporting documentation;
- Solve a problem independently, or constitute a functional portion of a long-term solution for which there is assurance that the project as a whole will be completed;
- Address a problem that has been repetitive or that poses a risk to public health and safety and improved property if left unresolved;
- Contribute to a long-term solution to the problem it is intended to address; and
- Account for long-term changes to the areas and entities it protects and has manageable future maintenance and modification requirements



Requirements: Cost Share

All projects require a non-federal cost-share which may consist of cash, donated or third-part in-kind services, materials, or any combination thereof.

- The cost share for **HMGP** is typically 75% federal and 25% non-federal
- The cost share for **BRIC** is 75% federal and 25% non-federal.

Economically Disadvantaged Rural Communities are eligible for an increase in cost share up to 90% federal and 10% non-federal.

- The cost share for **FMA** is generally 75% federal and 25% non-federal.

FEMA may increase the cost share to 100% federal for Severe Repetitive Loss (SRL) properties and 90% federal for Repetitive Loss (RL) properties.

Other Federal funds cannot be used toward the non-Federal match, with some exceptions:

- Increased Cost of Compliance (ICC) payouts from a National Flood Insurance Program (NFIP) policy
- Most HUD Community Development Block Grants (CDBG)



Eligible Activities

- Creating or updating a Multi-jurisdictional Hazard Mitigation Plan
- Planning Related Activities (including enhanced risk assessments)
- Project Scoping to result in a complete project proposal
- Acquisition and Demolition/Relocation *or* Elevation
- Structural Retrofitting; Dry Floodproofing
- Localized flood reduction measures
- Floodplain restoration, green infrastructure improvements
- Roadway elevation, culvert enlargements
- Storm water drainage system expansion/upgrade
- Retention or detention basins
- Streambank stabilization to protect infrastructure
- Placing overhead electrical systems underground



Ineligible Activities

- Preparedness activities: shelters, sandbags
- Projects dependent on other phases for benefits
- Deferred repairs, negligence, operating expenses
- Dredging, limb & debris removal, beach nourishment
- Projects initiated begun or completed



Hazard Mitigation Programs: the Process

- State establishes priorities
- Application phase to DHSES: detailed SOW, estimate (engineering, construction, etc.), maps, Benefit Cost Analysis, etc.
- Provide information to evaluate environmental impacts
- DHSES submits eligible applications to FEMA for review

Questions

For more information, please contact us:

Hazard Mitigation Programs

NYS Division of Homeland Security & Emergency Services

1220 Washington Avenue, Bldg. 7A, Floor 3

Albany, NY 12242

518-292-2304 (Main Line)

HazardMitigation@dhSES.ny.gov

www.dhSES.ny.gov/recovery



Homeland Security
and Emergency Services



Homeland Security
and Emergency Services

Emergency
Management

NYS Office of Emergency Management

Climate and Health Adaption Workshop

October 27, 2022

DHSES Mission

- Provide leadership, coordination, and support to prevent, protect against, prepare for, respond to, recover from, and mitigate disasters and other emergencies.



OEM

- OEM serves as the operational arm of DHSES to coordinate activities related to preparing for and responding to disasters and other emergencies



OEM Sections

- Planning
- Training and Exercise
- Operations/Logistics
- State Stockpiles
- State Watch Center
- Field Response



COVID support

- Operations/Logistics of state-run Covid testing and vaccination sites
- Manage State COVID Stockpiles and coordinate PPE distributions
- Coordination OTC test kit distributions to schools, nursing homes, and counties as requested



Traditional Response

- State Watch Center
- Stockpiles
- State EOC
- Field Personnel



Requesting Support

- Centralized System – New York Responds
- Through County Emergency Managers



Thank you!





**Department
of Health**



Questions?

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



**Department
of Health**



Break 😊
Return at 10:17 AM

Breakout Rooms

Rooms for Counties with LHDs & Partners

- Broome
- Cortland
- Dutchess
- Erie
- Montgomery
- Oneida
- Oswego
- Saratoga
- Schoharie
- Schuyler
- Seneca
- St. Lawrence
- Wayne
- Westchester
- Wyoming
- Chautauqua, Allegany, Cattaraugus
- Orange, Rockland, Ulster, Putnam
- Franklin, Essex
- Delaware, Otsego

Breakout Rooms (cont.)

Group Discussion Room

- Chenango
- Fulton
- Jefferson
- Monroe
- Rensselaer
- Schenectady
- Steuben
- Others (DEC, NYSDOH, PA, HHS, etc.)

Instructions for Breakout Rooms

- Identify a recorder who will be responsible for completing the slide for your group and reporting out
- Within the Google Slide Deck, navigate to the slide designated for your breakout room
- Use the questions within the discussion guide to help guide your conversations
- Use the last 10-minutes of your breakout session to complete your group's report out slide

If you need assistance at any point during the breakout session, click the “ASK FOR HELP” button in Zoom!

Climate & Health Adaptation Workshop: Flood Mitigation, Storm Response, Emergency Response Framework

— Breakout Session Report Out —

CORTLAND

What climate adaptation activity(s) did your group focus on?

Focus on water supply (avoid contamination in possible major flooding event) and access to hospital (100-year flood cuts through city, separating it from majority of city residents), displaced resident temp housing post-flood event

Who are your partners for this activity?

County Emergency Management, Water System Operators, State Health Dpt., Emergency Services, Guthrie Cortland Hospital, SUNY Cortland, Red Cross/non-profits

What are your next steps?

Observation of events as climate change proceeds, Work with municipalities through LEPC, work with Hospital/SUNY Cortland

What kind of assistance/support do you need?

Material support during/after emergencies (pumps, generators, disinfection equip., filtration equip., temp housing equip.), Post-event data (meteorological, damage documentation, ect.) to access response for future events.

SARATOGA

What climate adaptation activity(s) did your group focus on?

Snow events with accompanied power outages

Who are your partners for this activity?

Emergency preparedness team, DOT, local municipalities, National Grid

What are your next steps?

Coordination between National Grid and local municipalities will establish time frame for power services to be turned back on in areas. Then coordination between local municipalities and emergency preparedness team. Emergency preparedness team will step up response shelter(s) and communicate areas of priority to DOT (i.e. residents with chronic illness, elderly, children, etc.). DOT may then prioritize plowing areas with longer power outages and residents of concern first.

What kind of assistance/support do you need?

Communication , supplies, facilities, volunteers

CHAUTAUQUA, ALLEGANY & CATTARAUGUS

What climate adaptation activity(s) did your group focus on?

Flood and its need for both clean up and shelters

Who are your partners for this activity?

Red Cross , Office of Emergency Services, salvation army,

Clean up state DOT, local DPF, private excavation contractors, municipal garbage, landfill, school districts, colleges, shelter spaces

Social Services - temporary assistance folks. Department of Aging/OFA, Mental health support communications specialist

Code Enforcement, Seneca Nation

What are your next steps?

Engage partners, what resources they have, contact information up to date,

What kind of assistance/support do you need?

Patient transport entities in the region. Source of drinking water.

DELAWARE & OTSEGO

What climate adaptation activity(s) did your group focus on?

- **Warehousing and organizing community based people and resources related to climate emergencies**

Who are your partners for this activity?

- DC Planning Department
- Emergency Services
- Hospitals
- COAD

What are your next steps?

- **Continue to engage with community partners**
- **Active membership in the COAD**
- **COAD matrix / current resource assessment**

What kind of assistance/support do you need?

- **NYS Emergency Services to be continually collaborating and connected to NYSDOH as well as other state and local agencies who are involved in climate adaptation initiatives (planning, training, economic development, etc.)**

GROUP DISCUSSION

What climate adaptation activity(s) did your group focus on?

Communication: about climate change, before emergency, during emergency, with partners, different media markets, breaking down silos

Who are your partners for this activity?

Trusted partners, faith-based, Meals-on-Wheels/Food pantries, Cornell Cooperative Extension, Office of Aging, Local business, School districts, Media, AARP, Local LE

Capitalize on partnerships made during COVID

What are your next steps?

Communicate with vulnerable populations about flood risks and how communication will occur during emergency

Thinking about door-to-door communication when social media and electronic communication not available

Developing network of partners working with vulnerable populations to assist; working with vulnerable populations directly

Increase awareness about available material and how to get it; identifying gaps in educational materials?

What kind of assistance/support do you need?