

Environmental Health Emergency Preparedness and Response

Environmental Health Emergency Planning
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EH Strike Team Disaster Response



Environmental Health Section

"Execution of the DPH Hedgehog"

Food Service Program

- Inform the public of Foodborne-related Hazards
- Prevent foodborne-related illness through monitoring, assessments, and education
- Protect the public from risks associated with foodborne illness

Evaluation & Support Program

- Inform Environmental Health staff of best practices discovered from analysis of their work
- Prevent illness through development of evidence based performance metrics, policies, and training
- Protect the capabilities of Environmental Health operations through evaluation, planning assistance, and administrative support

Public Swimming Pool Program

- Inform the public of recreational water-related hazards
- Prevent waterborne illness and injury through monitoring, assessments, and education
- Protect the public from recreational waterborne illness and injury risks

BESTAT

Inform

the public of Environmental Health Hazards

Prevent

illness and injury through monitoring, assessments, and education

Protect

the public from Environmental Health Risks

Childhood Lead Prevention & Healthy Homes Program

- Inform the public about housing hazards that can cause unsafe or unhealthy environments
- Prevent injury or illness through monitoring, education, assessment and provision of direct services
- Protect all generations of Georgians by ensuring that each home is safe and healthy

Tourist Accommodation Program

- . Inform the public of lodging-related hazards
- Prevent illness and injury through monitoring, assessments, and education
- Protect the public from risk associated with foodwaterborne illness and unsanitary conditions

Emergency Preparedness & Mass Fatality Planning

- Inform stakeholders of Environmental Health preparedness plans for emergency response.
- Prevent additional illness or loss of life through monitoring, assessments, training and education
- Protect communities during health emergencies utilizing Environmental Health Strike Teams and/or

coordinated mass fatality resources.

Public Health Entomology

- Inform the public of hazards and disease associated with insect and other arthropod pests of public health importance
- Prevent illness or infestation through monitoring, assessment, education, and collaboration with partners
- Protect the public from risks associated with insects and other arthropods of public health importance

Chemical Hazards Program

- Inform the public about hazardous chemicals in the environment
- Prevent exposures by evaluating environmental and health outcome data
- Protect the public from hazardous chemical exposures

Land Use Program

- Inform the public of potential health hazards associated with onsite septic systems and non-public drinking wells.
- Prevent illness through education, monitoring, assessment, and enforcement
- **Protect** the public by managing science based standards and ensuring a competent workforce.

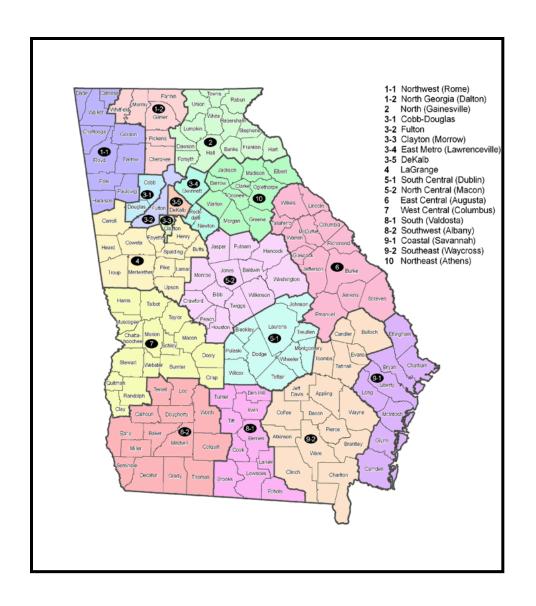
Indoor Tanning Facilities Program

- · Inform the public of hazards related to indoor tanning
- Prevent ultraviolet (UV) radiation-related skin cancer and injury through monitoring and education
- Protect the public from risk associated with UV radiation in tanning devices





Public Health System in Georgia



GA Department of Public Health

18 Public Health
Districts

159 County Health Departments

(Boards of Health)

Environmental Health Workforce

Environmental Health services are provided by approximately ~424 professional staff statewide.

- 20 State Office
- 18 EH District Directors
- 386 County Environmental Health Specialists

"Environmental Health...

Touching Everyone's Life Every Day"

Environmental Health (EH) Public Health Entomology

Public Health Entomologist

- **Complaint Response**
- Mosquito Surveillance
- **Public Education**
 - **Bedbugs**
 - Tick-borne Disease
 - **Vector Control**



New Vector Surveillance Staff

May 16, 2016-Start Date

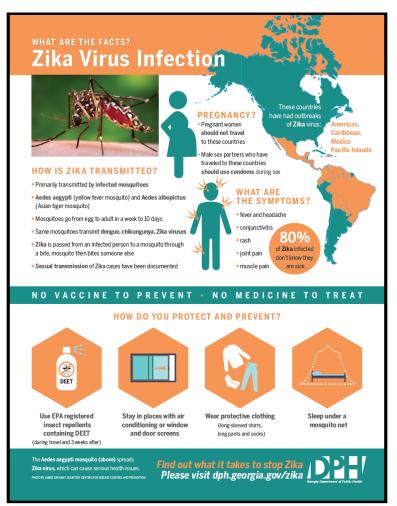


- 2-weeks Training
 - PH 101
 - Mosquito ID
 - Surveillance Techniques
 - Con Op Plan-CDC Risk Categories
 - **Emergency Vector Control**
 - Communication
- June 1, 2016
 - Out in Regions and Introductions
 - Surveillance
 - Education

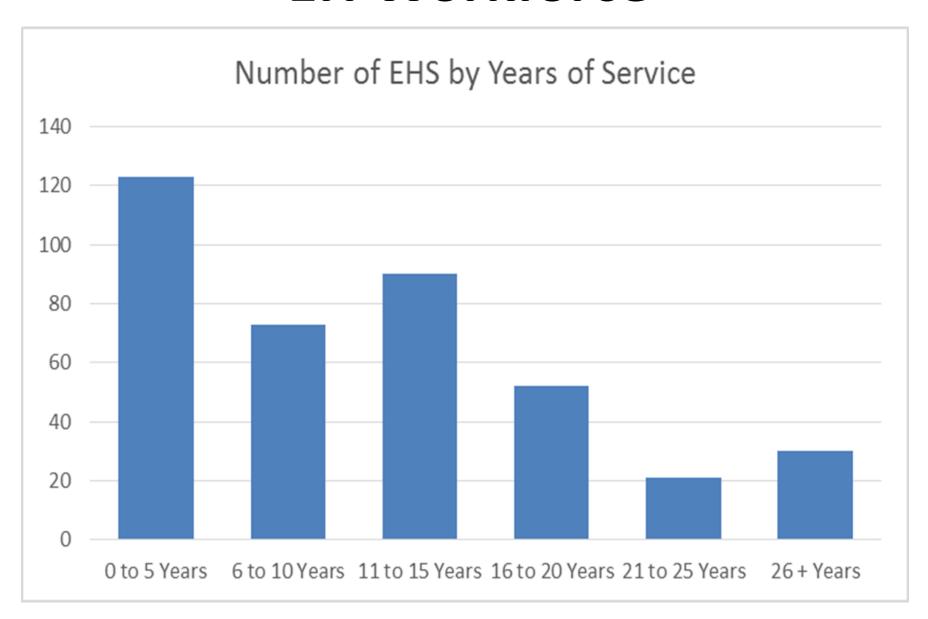


Environmental Health Education





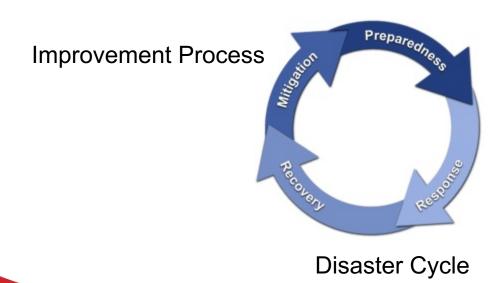
EH Workforce



Disaster Management

EH Strike Teams function within the ICS

- National Incident Management System (NIMS)
 - Incident Command System(ICS)
 - Emergency Support Functions 15 ESF's



Emergency Preparedness ESF 8

EHS respond to all types of emergencies:

- Mass Feeding facilities
- Mass Shelter facilities
- Water Interruptions
- Portable Sanitation
- Solid Waste Management.
- Vector and Rodent Control
- Situational Awareness
- Mass Fatality Coordination
- EH Strike Teams

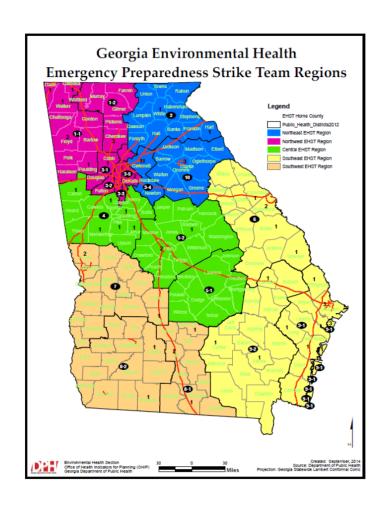


Environmental Health Strike Team Support



Environmental Health Strike Teams

- Regional Team Coordination
 - 5 Regions
- Environmentalists
 - Trained
 - Credentialed
 - Prepared to Deploy
 - Member Go Bags
 - Team Go Bags
 - Incubators
 - Supplies



Environmental Health Strike Teams

- Training
 - EH and EPR Training Programs
 - EHS Standard Training programs
 - Food, TA, Pools, Vector, Land Use, Wells
 - EHTER and EHTER Ops
 - (CDC, fully funded by FEMA)
 - FEMA NIMS / ICS (EMI)
 - EH Shelter Inspections
 - Outbreak / Epi Investigation Assistance
 - Annual Summit
 - 2015 AG/Water Well/ARC/Mosquito
 - 2016 Mosquito education and abatement





Additional Training

WebEOC

- FEMA Training through EMI
 - Independent Study Program
 - http://training.fema.gov/IS/crslist.aspx
- Radiation Training
 - Community Reception Center
 - EH Screening
 - Port-O-Monitors
 - Hand Held RadEye Geiger Counters





Drills and Exercise

TomorrowWorld



FEMA

EHTER Ops 2016



We Protect Lives.

Deployment Activities

Safe Water

Safe Food

Solid Waste

Liquid Waste

Vector Surveillance

Shelter Inspections

Community Reception

Centers

Mold

Septic Systems

Well Water Testing

Other as needed

EH Strike Team Deployment

- Report to the Incident Command Post
 - Check in
 - Report to the team leader
 - Perform the assigned tasks
 - Ask Questions if necessary
 - Within your scope of knowledge
 - May be assigned other task
 - Your safety is number one
 - Proper level of PPE
 - Be aware in a disaster area

Safe Water Supply

- Public Water Supplies
 - Power outages
 - Line breaks
 - Boil Water Advisories
 - Bulk Water Transport
 - Mobile Water Purifiers
- Private- Wells
 - Flooding
 - Sampling
 - Chlorination Instructions





Waste Water Disposal Concerns

- Public Sewers
 - Power outage
 - Lift Stations Failures
 - WW treatment plant

- Septic System Failures
 - Flooding



Portable Sanitation Systems

- Sanitation for human waste
 - May be a major problem
 - concerts / major festivals
 - Location placement is critical
 - Should be
 - Vertical
 - Inspected by EH daily
 - Serviced Daily
 - Approved Company





Refuse and Vector Control

- Pest Control
- 5~7 Day Mosquito
 Window





ESF-6 Support - Shelters

Reasons for Concern

- -Close living quarters
- -Stressed population
- -Disrupted protection systems
- -Healthcare maybe limited
- -Increased demands on facility
- -Place of last resort



Food in Shelters

- Proper Holding/Cooking Temperatures
- Preparation: Prevent cross contamination
 No bare hand contact
- Adequate Utensils and thermometers
 - Disposable utensils / WRS
- Hand Washing Facilities
- Source???



Mass Feeding Locations

- Coordinated with
 - EMA, Red Cross, Local governments, Faith Based groups, and the Salvation Army





Stage	Phase Level	Transmission Risk Category
Pre-incident	0	Preparedness: Vector present or possible in the state
	1	Mosquito Season: Aedes aegypti or Aedes albopictus mosquito biting activity. Introduced travel-related, sexually, or other bodily fluid transmitted cases.
Suspected/Confirmed Incident	2	Confirmed Local Transmission: Single, locally-acquired case, or cases clustered in a single household and occurring < 2 weeks apart.
Incident/Response	3	Confirmed Multiperson Local Transmission: Zika virus illnesses with onsets occurring ≥ 2 weeks apart but within an approximately 1 mile (1.5 km) diameter.

Georgia Department of Public Health

Zika Virus Preparedness and Response Plan



Version 1.1, Revised 8/9/16

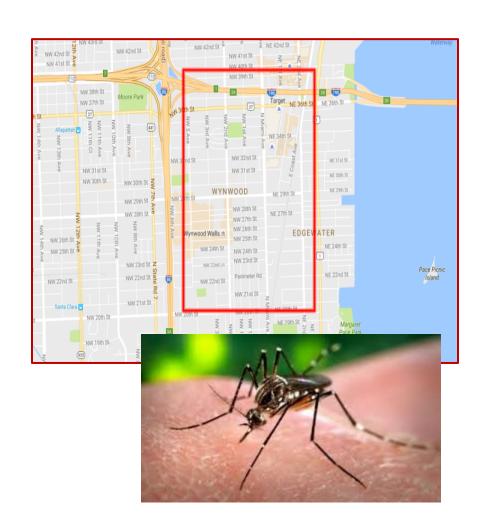
CDC Guidance Change: Response Phases

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July 2016

Georgia Widespread Ongoing Local Acquired Response

- Florida/Miami- Wynwood Neighborhood
- CDC Response Guidelines
- DPH Capacity
 - EPI Case Definition
 - Includes surveillance data
 - VSC and EH Emergency Strike Teams
 - Contingency Contracts
 - Private mosquito control
 - Additional Manpower, Equipment, Expertise



Environmental Health Response

Work Directly with Local Partners with Controlling Aedes Species (albopictus and aegypti) in a Focused Area

Action Triggers: Travel and Locally-acquired Zika

CDC Guidelines for Risk Based Zika Action Plans

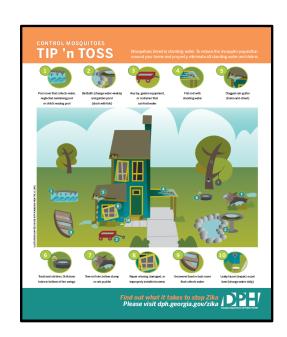
Focus on a positive sample location (Local Transmission) or other area of concern and provide elevated control and education radiating out 150-yard radius and approximately 5 or more blocks or possibly county wide if Widespread Local Transmission.

These Elevated Controls Include:

- Inform Local Mosquito Control
- · Surveillance and Testing
- Population Surpresion
- Door-to-Door Inspections and Education

Control Measures Would Include Mosquito Population Suppression

- Larviciding (backpack and dunks)
- Barrier sprays for adults
- Possible ULV spraying if wide spread





Contact Information

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