



Homeland Security
and Emergency Services

Emergency Management Certification and Training (EMC & T) Refresher

John Layton, Deputy Director OEM

2018 NYSEMA Conference

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**Please sign in to ensure that you
receive credit for the refresher training**



EMC & T

- Training intended to provide key stakeholders with a baseline understanding of emergency management in New York State, to include the State's emergency management framework and related initiatives

EMC & T

- The EMC & T program includes three Tiers of training:
 - County Chief Executives (Tier 1)
 - County Emergency Managers (Tier 2)
 - Local Public Officials, First Responder Leadership and Other Emergency Management Partners (Tier 3)
- County Chief Execs (or designees) and County EMs must complete the training (and annual refresher training) for DHSES grant eligibility purposes



EMC & T

How the EMC & T training is delivered:

- NY Association of Counties Conference (Tier 1)
- EMC & T Academy (Tier 1/Tier 2) 1day and 3 day
- Regionally, in concert with County EMs (Tier 3)
- On-line (refresher only)



EMC & T

Annual refresher options include any of the following:

- NY Association of Counties Conference
- NYSEMA Conference (refresher training session)
- Host or attend a Tier 3 training
- On-line

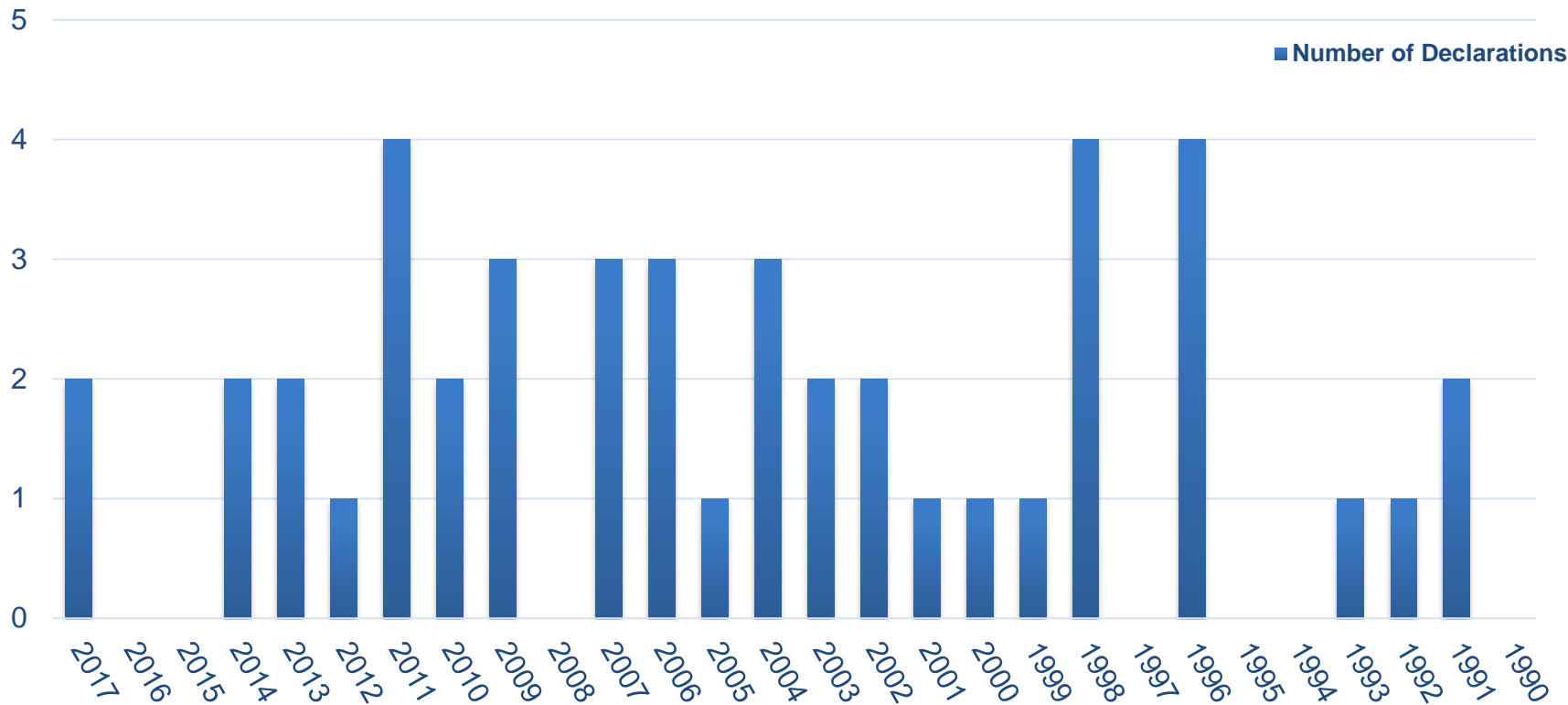
Agenda

- Year in Review – New York and National
- Looking Ahead

Year in Review- New York



NYS Disaster Declarations by Year of Declaration

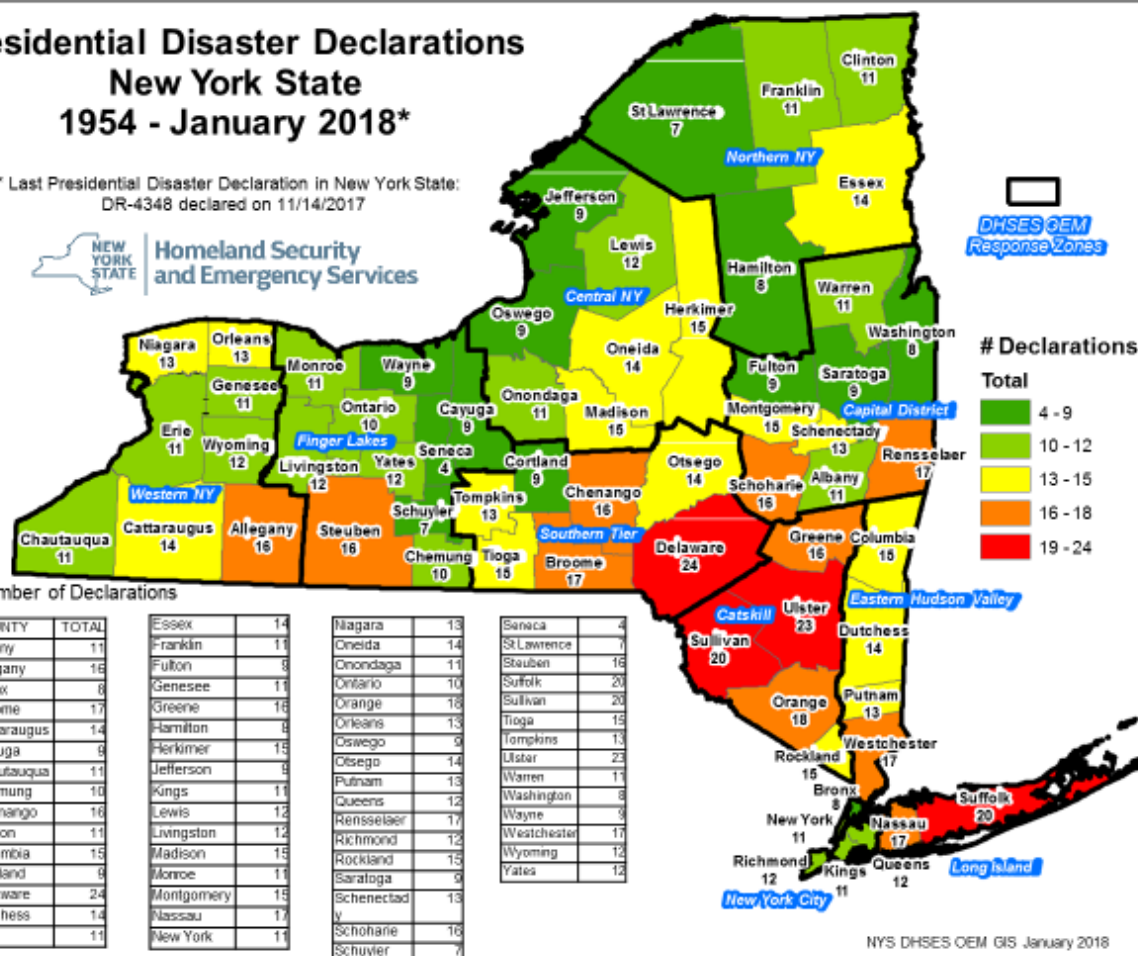


Presidential Disaster Declarations New York State 1954 - January 2018*

* Last Presidential Disaster Declaration in New York State:
DR-4348 declared on 11/14/2017



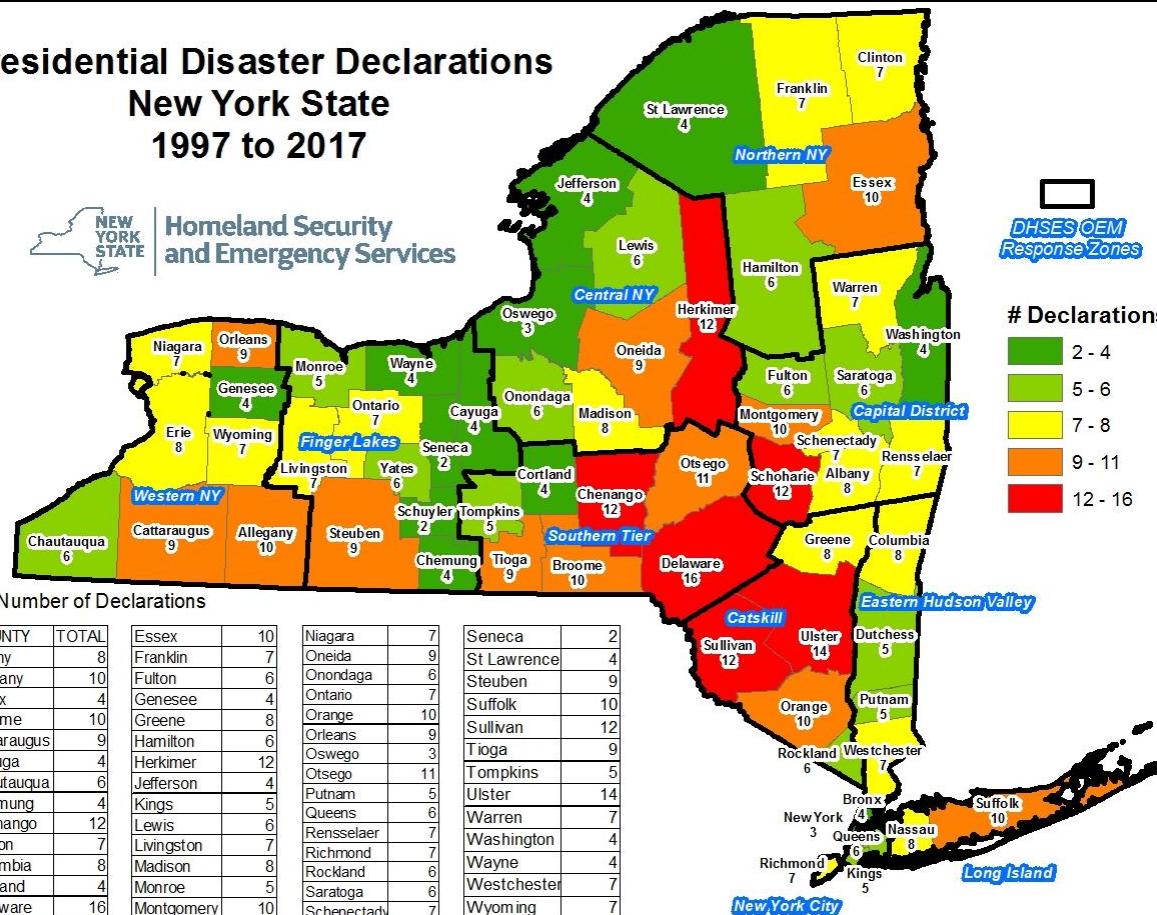
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Presidential Disaster Declarations New York State 1997 to 2017



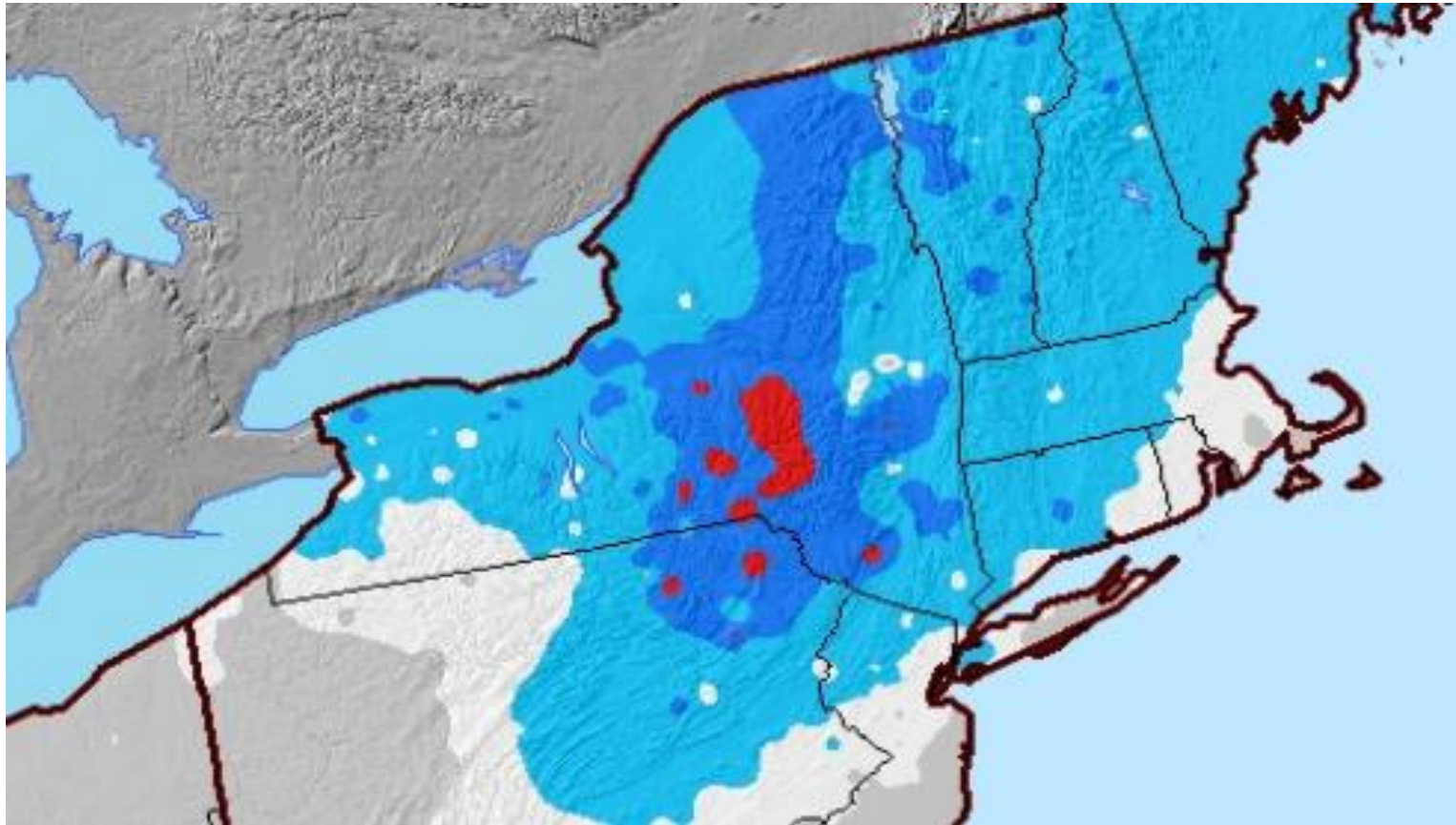
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Total Number of Declarations

COUNTY	TOTAL	Essex	10	Niagara	7	Seneca	2
Albany	8	Franklin	7	Oneida	9	St Lawrence	4
Allegany	10	Fulton	6	Onondaga	6	Steuben	9
Bronx	4	Genesee	4	Ontario	7	Suffolk	10
Broome	10	Greene	8	Orange	10	Sullivan	12
Cattaraugus	9	Hamilton	6	Orleans	9	Tioga	9
Cayuga	4	Herkimer	12	Oswego	3	Tompkins	5
Chautauqua	6	Jefferson	4	Otsego	11	Ulster	14
Chemung	4	Kings	5	Putnam	5	Warren	7
Chenango	12	Lewis	6	Queens	6	Washington	4
Clinton	7	Livingston	7	Rensselaer	7	Wayne	4
Columbia	8	Madison	8	Rockland	6	Westchester	7
Cortland	4	Monroe	5	Saratoga	6	Wyoming	7
Delaware	16	Montgomery	10	Schenectady	7	Yates	6
Dutchess	5	Nassau	8	Schoharie	12		
Erie	8	New York	3	Schuyler	2		

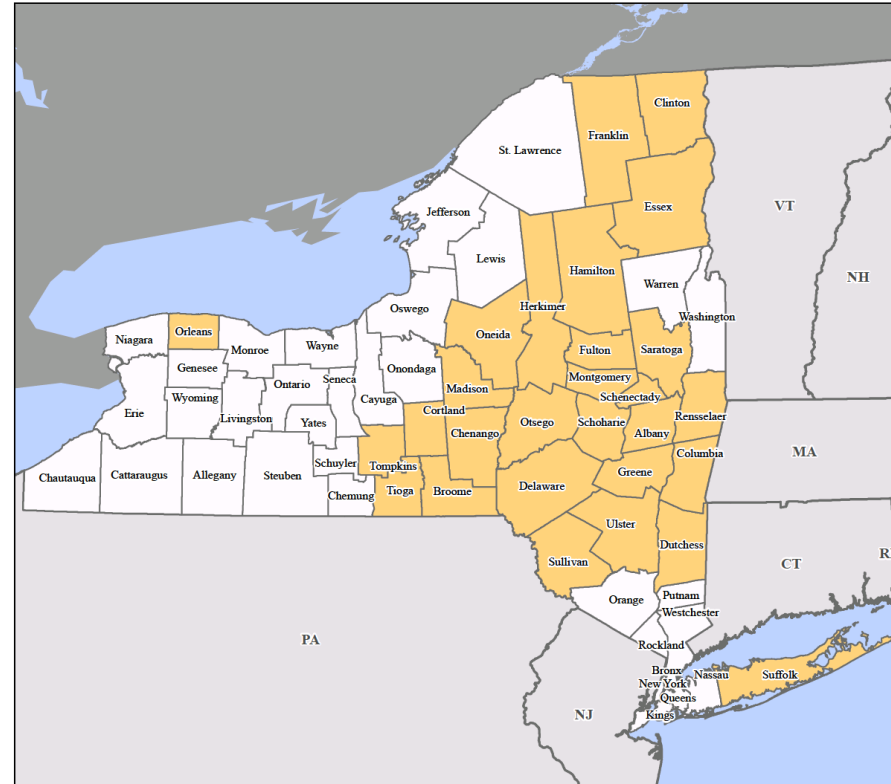
Winter Storm Stella: March 12-15, 2017



March Winter Snowstorm Stella Declaration

- March 14-15, 2017 in New York
- Snowfall accumulation of up to 48.4 inches in Hartwick
- Heaviest snowfall on record for Binghamton
- Major Disaster Declaration approved by FEMA on 7/12/2017 for Public Assistance, all categories
- 28 Counties
- Approved Hazard Mitigation Statewide

FEMA-4322-DR, New York Disaster Declaration as of 07/12/2017



Lake Ontario Response April – October 2017



The image shows two soldiers in camouflage uniforms working with large stacks of sandbags. One soldier is in the foreground, reaching up to place a sandbag on a high stack. The other soldier is slightly behind him, also working with the sandbags. The sandbags are piled high, forming a large wall. The scene is set under a covered structure with a metal frame, and trees are visible in the background.

Assets Deployed:

- 12 Sandbaggers
- 1.6 Million Sandbags
- 126 Pumps
- 2,100 feet of Aqua Dam
- 150 feet of Tiger Dam
- 2,100 feet of Jersey Barrier
- Damage Assessment Teams
- Long Arm Excavators, skid steers, loaders.
- HAVs, Zodiacs, Generators, light towers

Lake Ontario Response – Aqua Dam

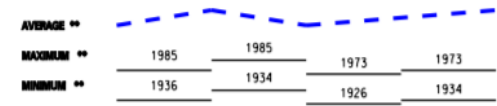
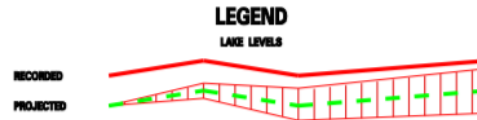
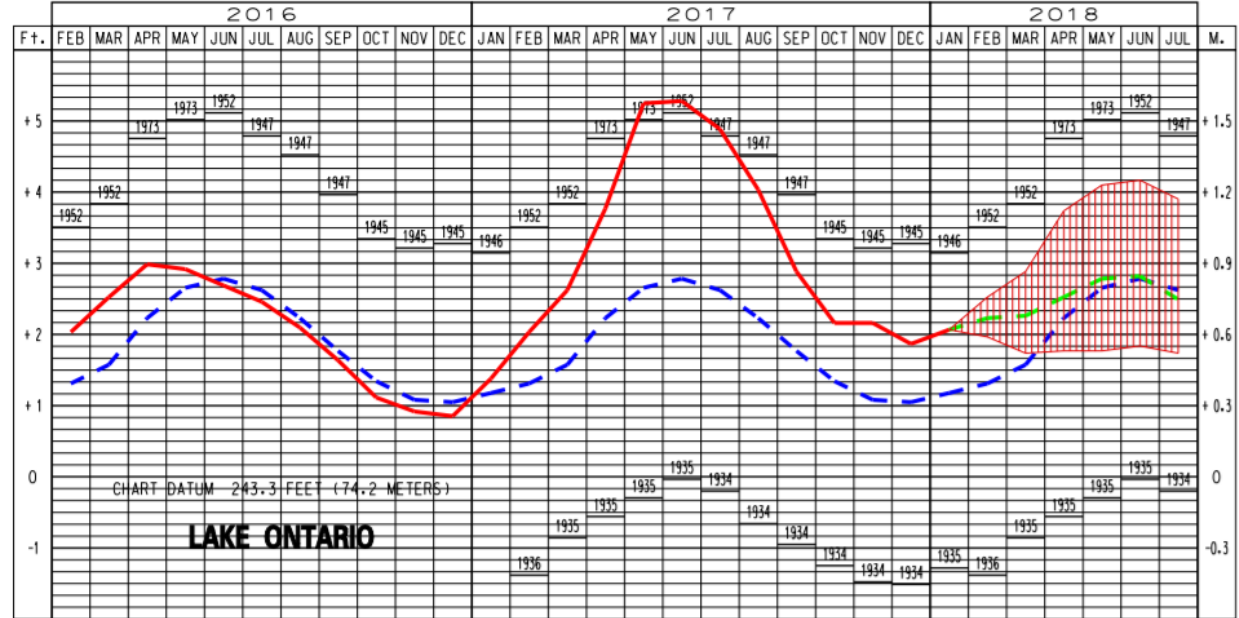




Lake Ontario Response – Tiger Dam

**USACE-Red
and green
current and
Projected.
Blue-
Average.
Years are
Extremes**

LAKE ONTARIO WATER LEVELS – FEBRUARY 2018



** Average, Maximum and Minimum for period 1918-2016



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NYS DHSES Stockpile Resources-Flooding

Systemwide		
Resource	Deployable	Total
Generators	767	925
Light Towers	263	275
Pumps	1,328	1,328
Sandbaggers	11	14
Sandbags	1,044,451	1,044,451
Meals Ready to Eat	63,858	314,610
Water (Bottled ½ Liter)	65,568	397,013
Water (Canned 12 oz.)	348,000	348,000
Cots	9,650	9,650
Blankets	12,420	12,839
Pillows	13,613	13,693
Flashlights	4,348	4,348
Traffic Barriers	960	960
Traffic Barrels	594	594
Aqua Dam	7,645	8,246

As of: 02/13/17



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Terrorism

- **NYC Subway Pipe Bomb Attack**
 - Pipe bomb detonated in subway passageway
 - 4 injured, including bomber
- **NYC Vehicle Ramming Attack**
 - Halloween
 - Killed 8, injured 11



New York Responses

Unplanned

- Winter Storms
- Western NY Wind event
- July Storms (applied for declaration)
- Tornados
- Ice Jams (2018)
- Landslides
- Terrorist attacks

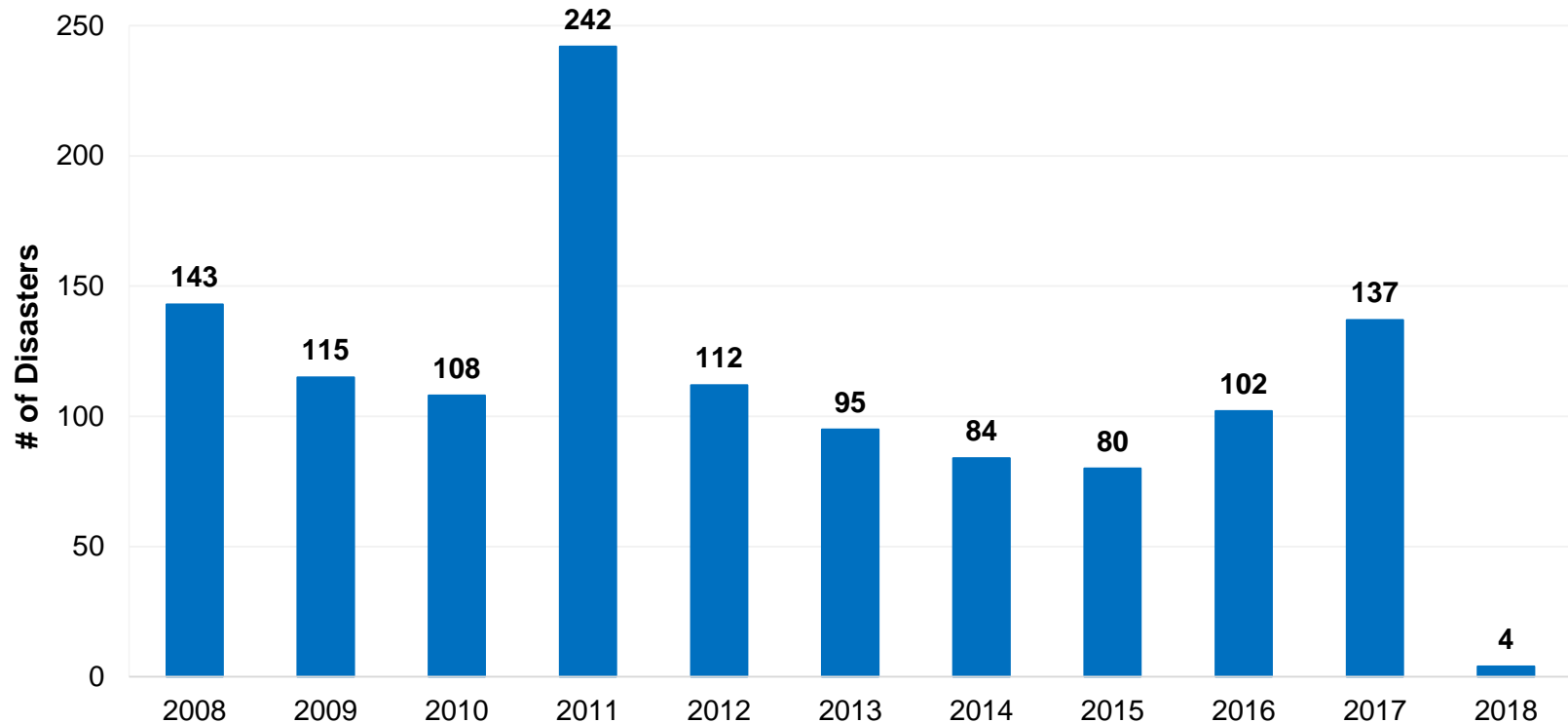
Planned

- Utica 15K Boilermaker Race
- Jones Beach Airshow
- Sporting events
- St Patrick's Day Parade
- Belmont Stakes
- NYC Marathon
- POTUS Visit
- New Year's Eve

Year in Review- National



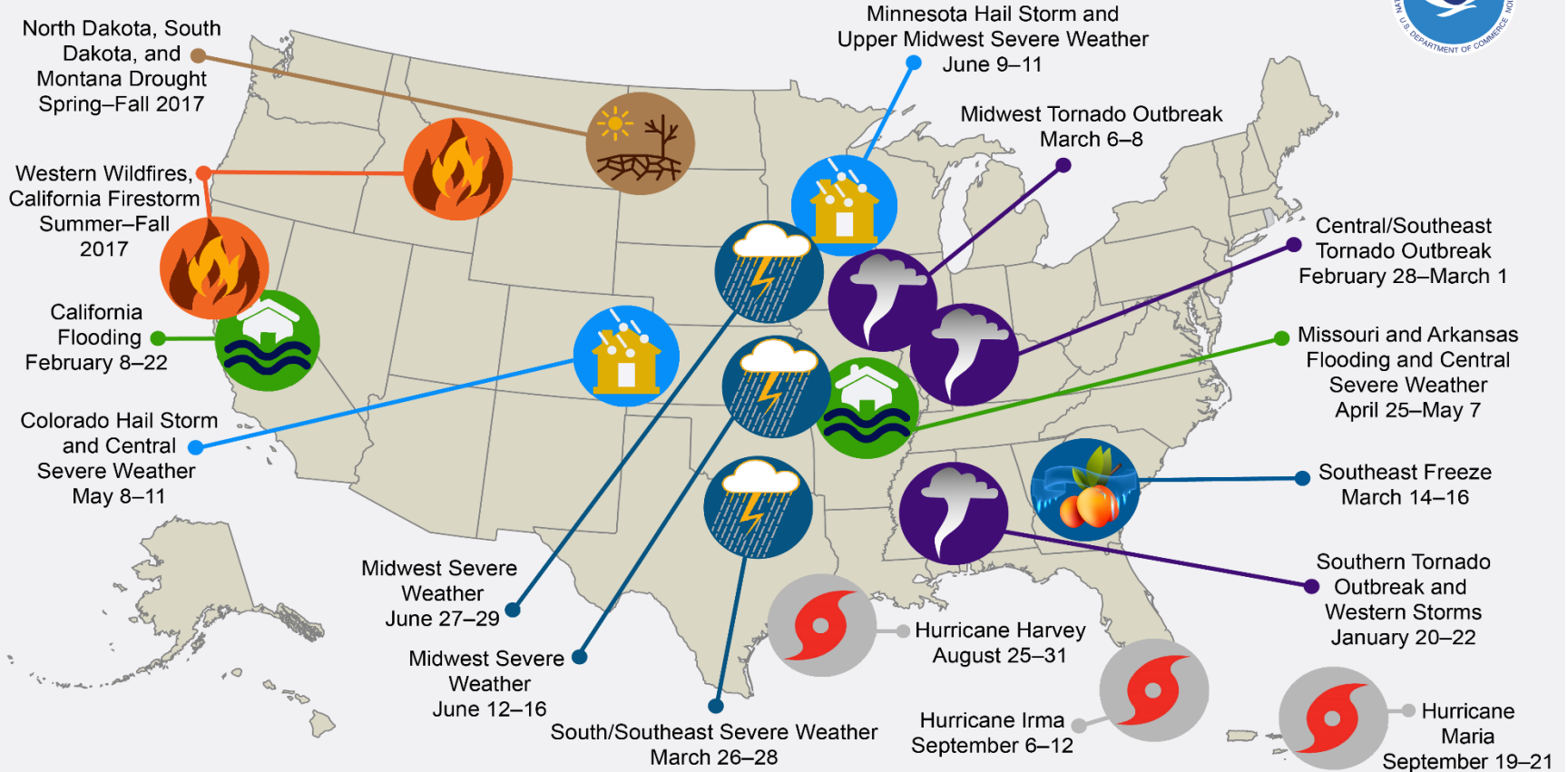
Federal Disaster Declarations Over The Last Decade



Federal Disaster Declarations in US, 2017

- Winter storms
- Pipeline fire
- Flooding
- Hurricanes
- Wildfires
- Tornadoes
- Straight line winds
- Landslides/mudslides

U.S. 2017 Billion-Dollar Weather and Climate Disasters



This map denotes the approximate location for each of the 16 billion-dollar weather and climate disasters that impacted the United States during 2017.

Hurricane Harvey - Texas



Hurricane Harvey

- Category 3
- 77 Fatalities
- Highest wind speed 134 mph
- Areas Affected: Windward islands, Texas and Louisiana

NYS Response

- NYC Task Force 1 (Federal ESF 4 deployment)
- NYS All Hazards Incident Management Team
- National Guard Personnel with Air and Water Craft





Hurricane Irma

Hurricane Irma

- Category 5
- 132 Fatalities
- Highest Wind Speed 183 mph
- Areas Affected: USVI, Leeward islands, Greater Antilles, Turks & Caicos, Bahamas, Florida

NYS Response

- NYS Task Force 2 – Florida Deployment
- National Guard Personnel with Aircraft – USVI Deployment
- National Guard and NYSP – USVI Security and Law Enforcement Deployment





Hurricane Jose – Potential NYS Impact

Hurricane Jose

- Category 1
- 1 Fatality
- Highest wind speed 155 mph
- Areas Affected: Bermuda, Leeward Islands, East Coast of US and Nova Scotia

NYS Response

- NYS Regional Emergency Operations Center established and Long Island Welcome Center
- Pre-Staged response assets
 - DOT, National Guard, OEM, OFPC, DEC, Parks and State Police



ASSET PRE-DEPLOYMENTS

EQUIPMENT

- 24 high axle vehicles
- 229 generators
- 65 Light Towers
- 128,256 bottles/cans of water
- 31,056 ready-to-eat meals
- 55 pumps
- 6 sandbaggers and 151,000 sandbags
- 1,000 feet of aqua dam
- 10 boats from DEC being positioned across Long Island
- 4 air boats and 4 zodiacs dispatched from State Police
- 3 zodiacs dispatched from the Office of Fire Prevention
- 20 large dump trucks, 1 wood chipper, 1 Sew-Vac Trucks, and 1 large dewatering pump from DOT



Hurricane Maria – USVI and Puerto Rico

Hurricane Maria

- Category 5
- 68 Fatalities (An additional 25 indirect fatalities also reported; reports also indicate the numbers are much higher)
- Highest wind speed 175 mph
- Areas Affected: Lesser Antilles, Dominica, USVI, Puerto Rico, Dominican republic, Turks & Caicos, Bahamas, Southeastern US
- National Guard and NYSP
 - USVI and Puerto Rico
 - Security and Law Enforcement Deployment
- DHSES – Puerto Rico
 - Donation Collection, Shipment and Distribution
- Healthcare Partners – USVI and Puerto Rico

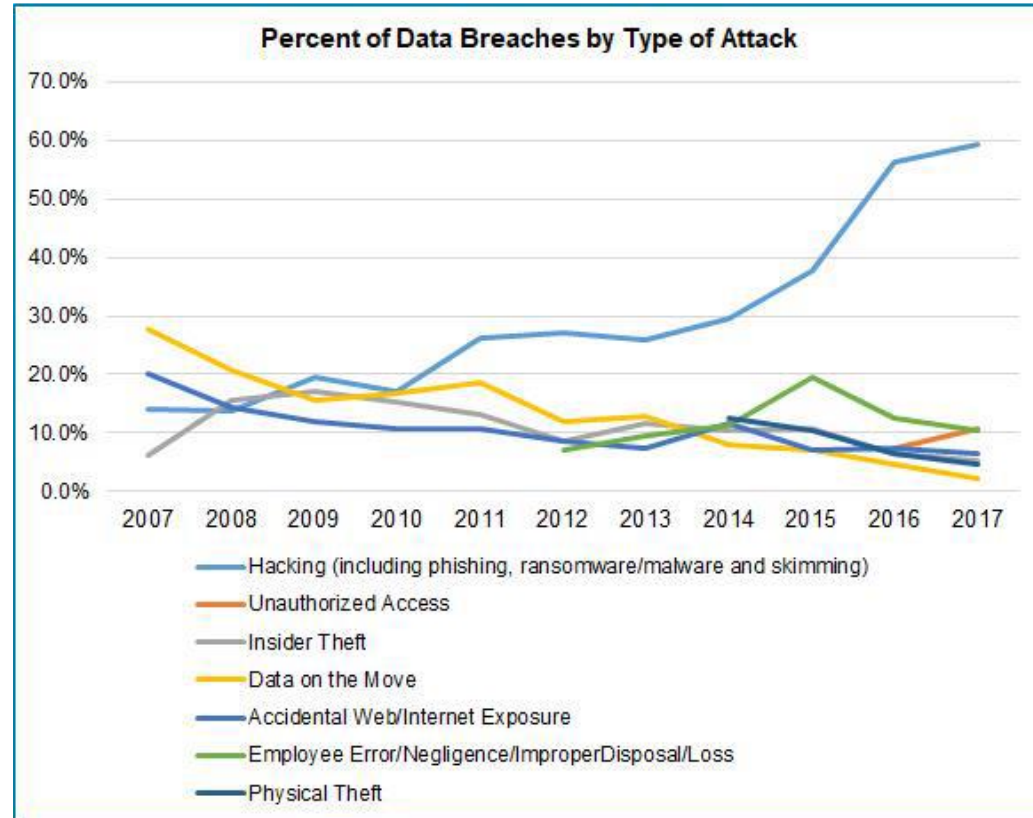


Cyber Security: 2017

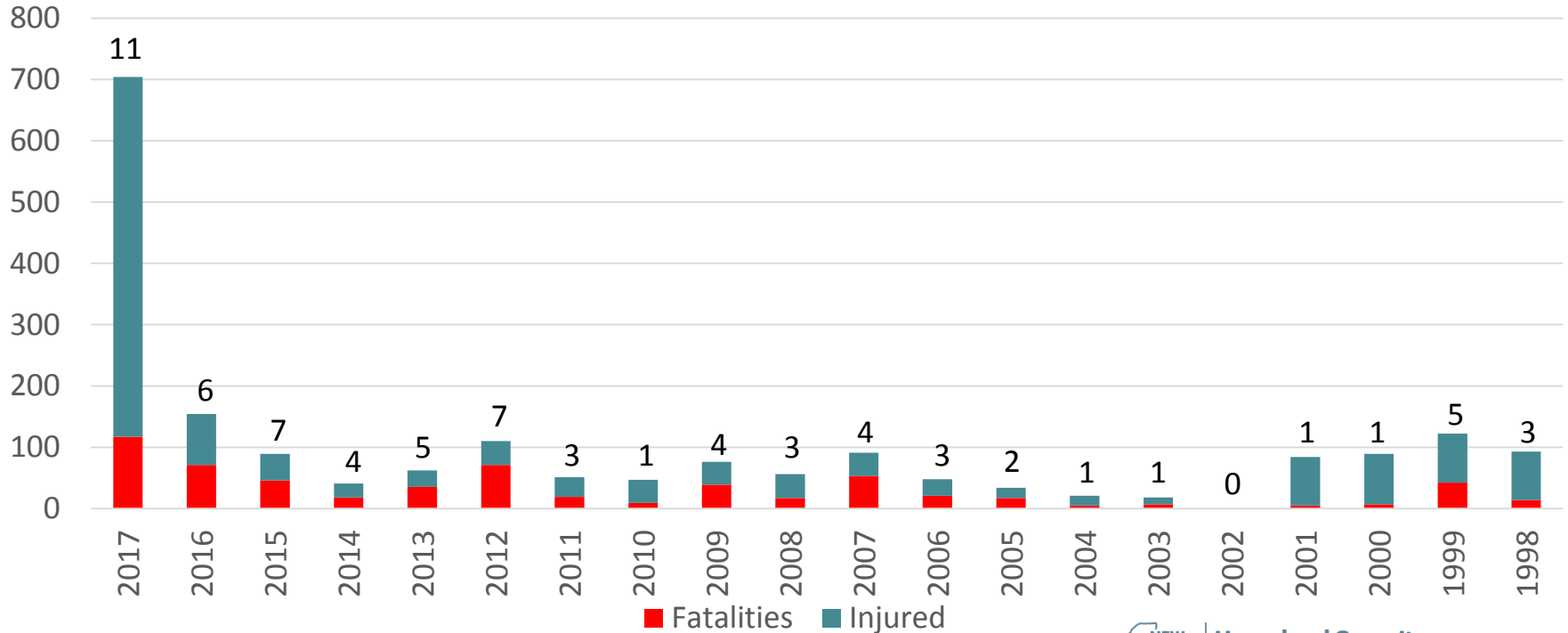
U.S. data breach incidents hit a new record high of 1,579 breaches* exposing more than 175,000,000 records

44.7 percent increase over the record high figures reported for 2016

* Identity Theft Resource Center



Mass Shooting Trends*



*Motherjones.com



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Notable 2017 Mass Shootings

Las Vegas

- October 1, 2017 gunman opened fire on Harvest Music Festival
- >1,100 rounds fired
- 58 Fatalities
- At least 546 Injured
- Deadliest mass shooting by one individual in US

Texas First Baptist Church

- Gunman opened fire at the First Baptist Church in rural Sutherland Springs, Tx
- 26 Fatalities
- At least 20 Injured
- Previously court martialed for assaulting his spouse and child



Moving Forward



Moving Forward

- Lean Forward Approach
- OEM Transition to ESF Model
- Cyber Teams
- Swift Water Rescue Training Facility
- Airport Employee Security Training
- CEPA Update



- Federal Grant Funding Update
- NIMS Update
- New LMS
- Training and Exercise Request and Reports
- New York Responds
- IPAWS



NYS Lean Forward Preparedness for Response

- Under Governor Cuomo's leadership NYS has altered its approach to emergency management.
- Much more proactive and willing to take action **before** an event occurs.
- The goal is to better support our local partners by reacting quicker and where possible, before an event occurs.



NYS Lean Forward Preparedness for Response

- Early (and often) activation of the State EOC
- Declaration of State Disaster Emergency when appropriate.
- Forward deployment of State personnel, to include the Governor and other Executives.
- Forward deployment of stockpile resources and other NYS assets to staging in advance of local requests.
- Bans and Restrictions on NYS Roadways as appropriate



OEM Transition to ESF Planning Model

- DHSES OEM has restructured into an Emergency Support Function (ESF) planning and response model
- Planning refinements are ongoing based on drills and exercises



Cyber Incident Response Team

- Located within the DHSES Office of Counter Terrorism
- Assists State agencies, local governments, and critical infrastructure with cyber preparedness, coordination of exercises, and recommends best practices
- Provides comprehensive reviews of cybersecurity policies, conducts vulnerability assessments and network scans, and provides support for incidents
- Single point-of-contact for critical infrastructure and local governments to report significant cyber incidents



Swift Water Rescue Training at the SPTC

- A first of-its-kind Swift Water Rescue Training Facility dedicated to emergency operations
- Currently under construction at the SPTC, expected completion in 2018
- Will hold over two million gallons of water and allow up to 40 responders to simultaneously practice rescues in both rapid water and urban conditions



Transportation Security Training for Airport Employees

- Developed following a review of the false-alarm active shooter situation at JFK airport in August 2016
- An eight-hour training for airport civilian employees on active shooter situations and security awareness
- Hiring in progress, starting at downstate areas then moving upstate



County Emergency Preparedness Assessment (CEPA) Update

- DHSES needs to **update/validate** the CEPA information to ensure it is current and accurate
- Conducting another round of CEPA sessions with every County (and NYC)
- Developing an understand where **progress** has been made and what **challenges** remain
- Promoting **continued communication and coordination** among state and local partners
- Planning to update CEPA **every 3 years**

Federal Grant Funding

- FY2017 Targeted Grant Programs should be released soon
- Continuing resolution until 3/23/18, most likely the last CR since a two year budget agreement was reached
- Full year appropriations should be finalized in March
- Grant guidance should be available approximately one month after final appropriations bill is enacted.
- No information on funding levels at this time

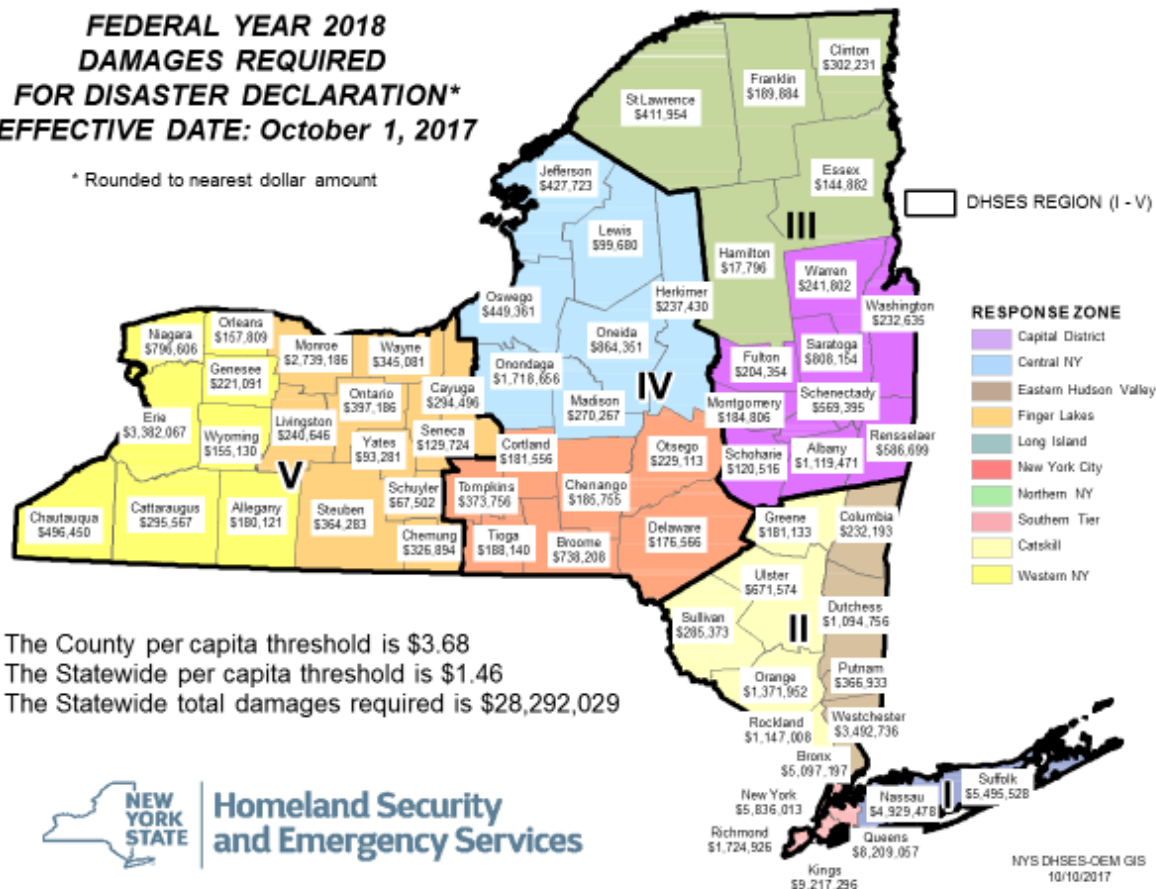


Federal Disaster Assistance Funding Update

- FEMA was pursuing a “disaster deductible” concept for Public Assistance funding
- States would have to commit a certain level of disaster assistance funding before being awarded FEMA funds (Deductible for NY was estimated by FEMA at \$51.7 million when fully implemented)
- Comments provided by NYS in April, 2017 to FEMA opposing the proposal.



* Rounded to nearest dollar amount



The County per capita threshold is \$3.68
The Statewide per capita threshold is \$1.46
The Statewide total damages required is \$28,292,029



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NYS DHSES-OEM GIS
10/10/2017

National Incident Management System (NIMS) Update

- October 2017 FEMA released the “refreshed” NIMS doctrine
 - NIMS compliance and reporting still a grant requirement
- Provides expanded EOC guidance
- Describes common functions and terminology for staff in EOCs
- Supporting documents and training materials are still in process of updating, review and release

NIMS 2008 and 2017 Comparison

NIMS Component	2008 Contents	NIMS Component	2017 Contents
1	Preparedness	1	Fundamentals and Concepts
2	Communications and Information Management	2	Resource Management
3	Resource Management	3	Command and Coordination
4	Command and Management		<ul style="list-style-type: none"> Incident Command System Emergency Operations Centers Multiagency Coordination System Joint Information System
	<ul style="list-style-type: none"> Incident Command System Multiagency Coordination System Public Information 		
5	Ongoing Management and Maintenance	4	Communications and Information Management

New Learning Management System

- DHSES has obtained the necessary approvals and funding to obtain the Acadis LMS, the same system being used by NYS DCJS.
- What is included
 - **Training** (data repository, certificates, reporting)
 - **Compliance** (track and manage certifications)
 - **Registration** (manage registration process, track pre-reqs.)
 - **Online Registration Portal** (for agencies/orgs we identify)
 - **In-service Reporting** (agencies can report other training to add to their training records)
 - **Workforce Portal** (allows agencies/orgs to see their records)
- 12 – 24 months to implement



Course Requests, Exercise Support Requests, and Exercise Reports

- New York Responds is now used to manage
 - Course Requests
 - Exercise Support Requests
 - Exercise Reports (required for grant funding)
- Additional users can be added if county requests
- County will still have to approve requests for courses and exercise support which is done in NYR
- If you are looking for specific training and don't know course information, call OEM Training and Exercises for assistance





Responds



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NY Responds

- NY Responds is a state-of-the-art online incident management system used within EOCs to develop and maintain situational awareness and coordinate the sharing of emergency resources across the State.
- DHSES OEM has made the NY Responds system available to every County EOC in New York, and it serves as a single, unified system to ensure visibility, transparency and accountability of emergency response activities and assets.

NY Responds

- DHSES OEM is further developing the NY Responds system to include advance GIS mapping capabilities, weather data, real-time communications, and emergency notification functions.
- It is critical that all resource requests be routed through the County EOC and the NY Responds system.

NY Responds Anchors the System

- NY Responds transformed the way the State handles disasters.
- One system for each locality in the state.
- Seamless integration with State systems and processes.
- Single, consistent platform with real-time information that allows the State to maximize assets and prioritize resources.



Resource Request Process

Local Incident Command

- Local Mutual Aid
- Local Procurement
- Exhaust local resources

County EOC

- Initial vetting
- Clarification
- Request processing

Regional / State OEM

- Vetting
- Approval
- Resource Identification
- Prioritization
- Resource Deployment



Understanding the Situation and Need

- Changing the paradigm of open ended, uninformed requests for resources
- Must identify each specific task or **mission** that the County is requesting assistance to address
- Informing the need will better define and prioritize the response



New Incident Request Requirements

- Incident Type
 - Life safety considerations
- Date/Time of incident & when request made
- Description of the problem/task
- Current resources committed locally
- Potential resource needs
- Point of Contact
- Priority, status and deployment determined by NYS



Resource Request Process

- It's critical to follow the resource request process.
- Going outside or around the process leads to:
 - Confusion
 - Delays
 - Duplication of effort



Critical NY Responds Features for Locals

- Ease of use for entering local resource requests
- Ability to monitor request prioritization, status and decisions
- Access to a common operating snapshot that shows other relevant incidents in the region
- Customizable user dashboards



Critical NY Responds Features for NYS

- State and Local Asset Tracking with GPS/AVL Technology
- Ability to track the life cycle of a County request for assistance from entry through execution.
- Situational Display Reporting and Display – Leverages GIS and advanced mapping technology to allow the State to see a Common Operating Picture and generate real-time situation reports.
- NY State Watch Center Module – Allows the State to record all activities across the state 24 hours a day; provides the ability to mass notify citizens



State of Emergency

- A Chief Executive can declare a State of Emergency in the event of a disaster or reasonable apprehension of immediate danger that poses a threat to public safety
- Local State of Emergency proclamation is valid for **30** days.
 - May be extended for additional 30 day periods.
- A copy of the State of Emergency proclamation **must be filed** with the County Clerk, Clerk of the Governing Board of the county/locality, the State Office of Emergency Management, and the Secretary of State.



IPAWS

Integrated Public Alert & Warning System



How Can We Notify the Public During an Emergency?

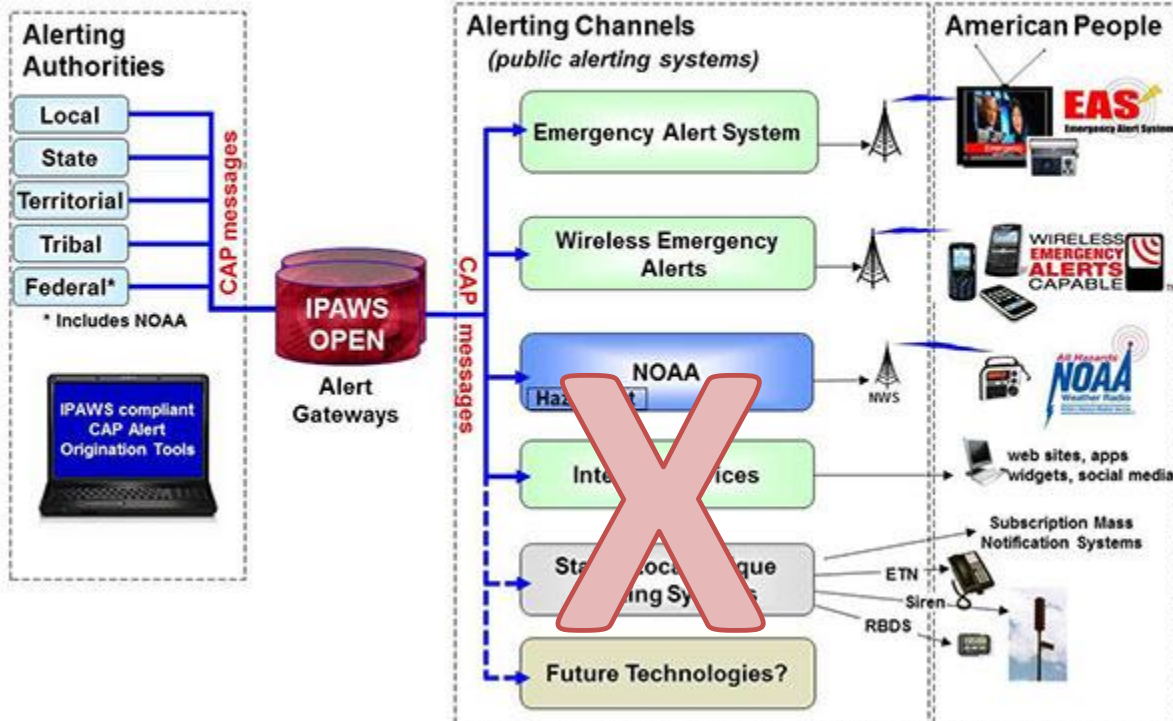


- Hawaii
- Japan
- Accu Weather



How it Operates

IPAWS Architecture



- WEA=Texts
- EAS=TV & radio
- Cost=Free
- Transmitted through NYAlert, CodeRed, etc.



Wireless Emergency Alerts

- Will reach most people with a quick heads up message.
- Limited to <90 characters (may change)
- Smart phones, not flip phones.
- Send to the entire county or polygon.
- Transmits to cellphone towers within ID area. Therefore there will be overlap into other areas.
- Good practice is to limit use to TRUE Emergencies only and to notify surrounding jurisdictions and NYS when sent.
- Give additional information via press release.
- Web link not allowed in message (may change).



Emergency Alert System

- Broadcasts audio on TV and radio plus written banner on TV.
- Historic system, loud tone and robotic voice.
- Significantly wide audience-(think 50-100 miles) will always cross into other jurisdictions. (wide audience could be confusing) Only for extreme emergencies.
- No requirement for broadcasters to transmit. Requirement for President & tornado-unwritten agreement.
- Limited amount of characters (256-1,800?)
- Different policies amongst broadcasters, cable, etc.
- Only in English (may change)
- Doesn't operate in Netflix, etc.



IPAWS Summary

- Most counties already have the certification.
If not, start the process with the FEMA on-line course IS 247.
- It's free.
- You can reach a lot of people. (not just those watching TV or listening to the radio)
- Landline phones are declining.
- Not the solution for all emergency notifications, just another tool. (direct, verbal, press announcement, press release, reverse 911, sirens, PA, social media)
- Don't overuse.
- Additional information: <https://www.fema.gov/informational-materials>

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Thank You!