How to Respond to Flooding

Hurricane Matthew, 2016

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2017 All Hazards Webinar Series

Dates Coming Soon

- **How to Respond to Tornadoes**
- **How to Respond to Wildfires**
- **How to Respond to Hurricanes**
- **How to Respond to Fall Flooding**

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So Many Great Questions!

Which ones I won't get to:

- Personal evacuation plans
- Agency evacuation plans
- Types of equipment (boat, motor, etc)
- Team composition
- Sheltering
- Getting involved at the local level
- Local rescue team development
- Training

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Agenda

- Introductions
- Floods Facts
- ASAR activities in floods
- Community Preparedness: Enhancing Response Capabilities

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ASPCA Field Investigations & Response (FIR)

FIR partners with animal welfare organizations, law enforcement and emergency management to respond to natural disasters and animal cruelty across the United States.

Disasters
• Floods • Hurricanes • Tornados • Earthquakes • Fires • Disease Outbreaks

Cruelty
• Hoarding • Puppy Mills • Animal Fighting • Farm Animals • Horses • Single acts of cruelty

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2016 – A Year of “Largest”

- Largest dog/cat seizure: The Haven, NC.
- Largest backyard livestock seizure: Westport, MA.
- Largest cat quarantine facility: H7N2 Outbreak, NYC
- Largest geographic response: four states H. Matthew

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FIR's 2016 Impact by the Numbers

Twenty Six
Deployments in 2016

- 7 *disaster*
- 18 *cruelty*
- 1 *infectious disease*

54
Investigations

35
Consultations

Three Hundred & Fifty Six
Criminal charges filed

Fourteen
Trainings provided
Impacting 889
attendees

10,578 Animals impacted
(animals rescued + animals assisted)

6,346 Animals assisted
(consultations + investigations)

4,232 Animals Rescued

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2,000 Unique Responders

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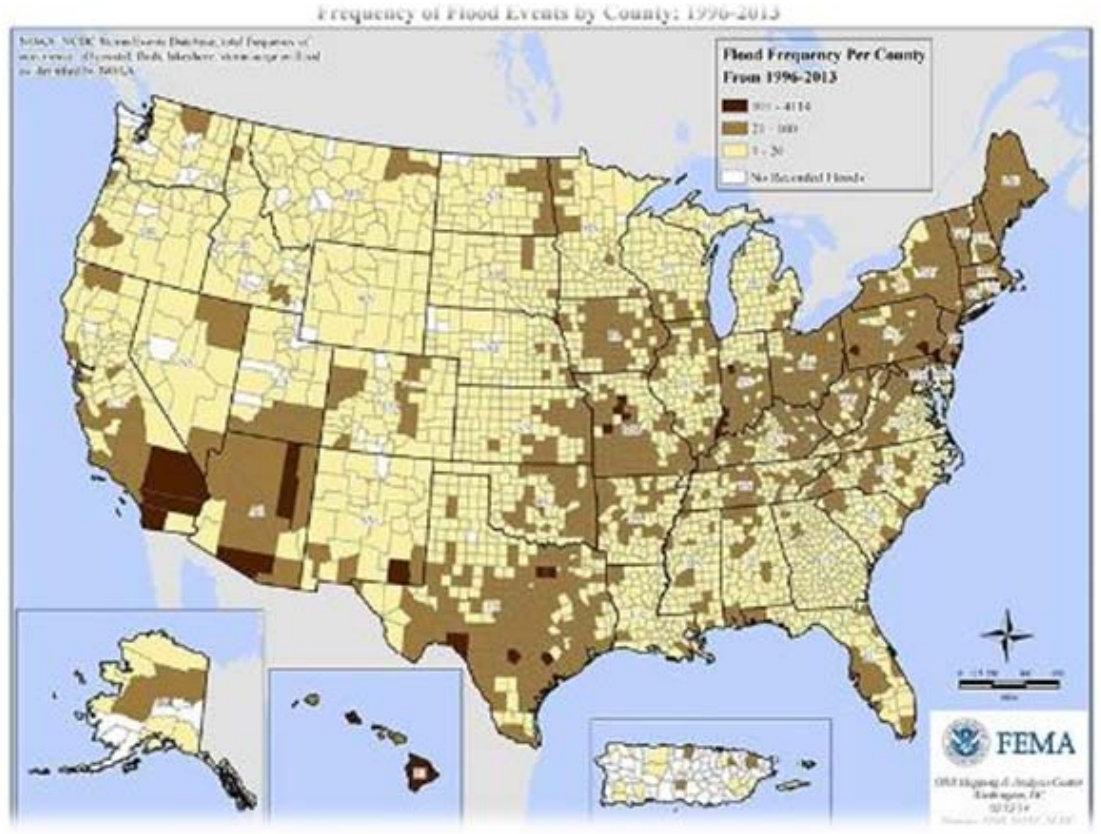
Fact or Fiction?

In the past 5 years, all 50 states have experienced floods or flash floods.



FACT

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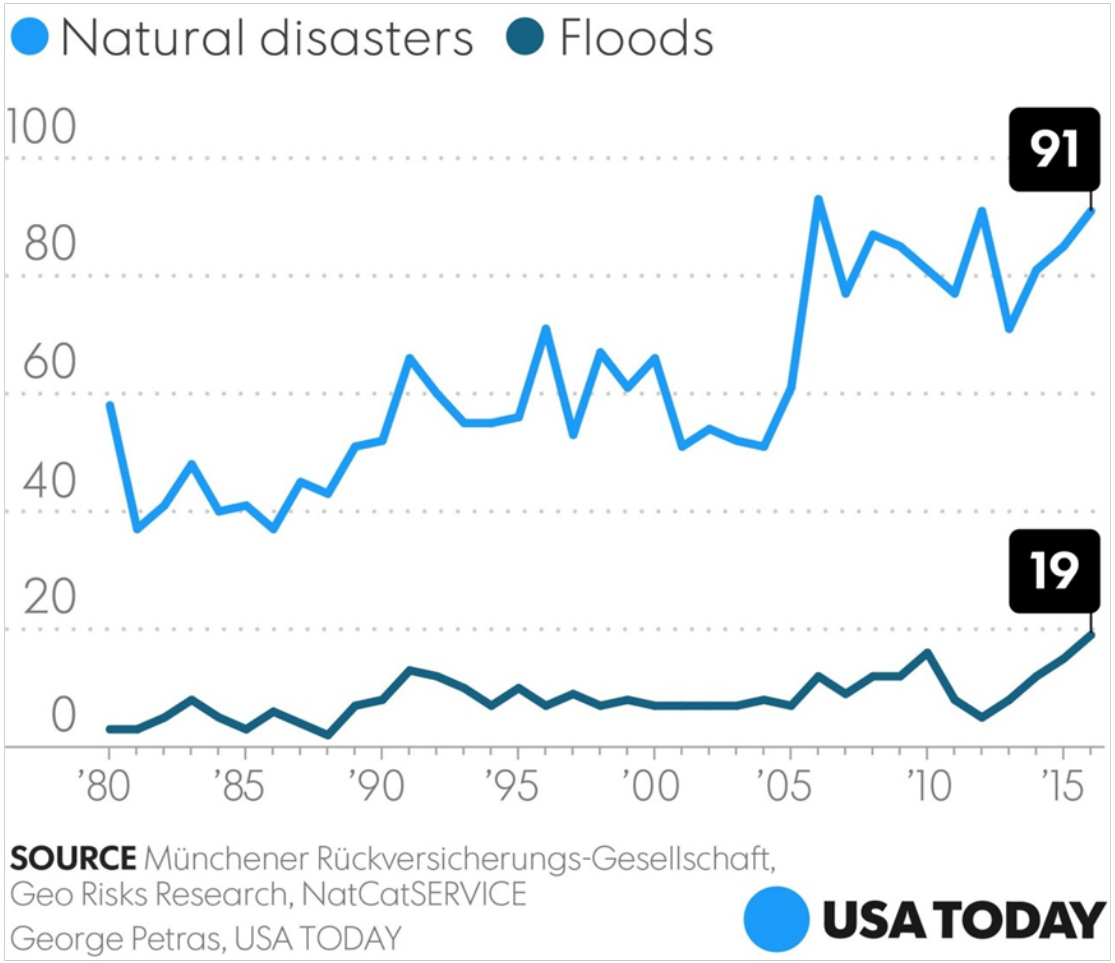
2016 was the worst year in US history for number of floods.



FACT

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LA Flooding Aug 2016

Flash floods can bring walls of water 10 -15’ high.

Heppner Flood, 1903

FACT

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Primary Cause of Flooding is Spring Melting/Runoff

False

Excessive rain

Downstream river overflow

Ice and snow-melts

Dam breaking

Strong winds in coastal areas (storm surge)

Great Molasses Flood, Boston 1919

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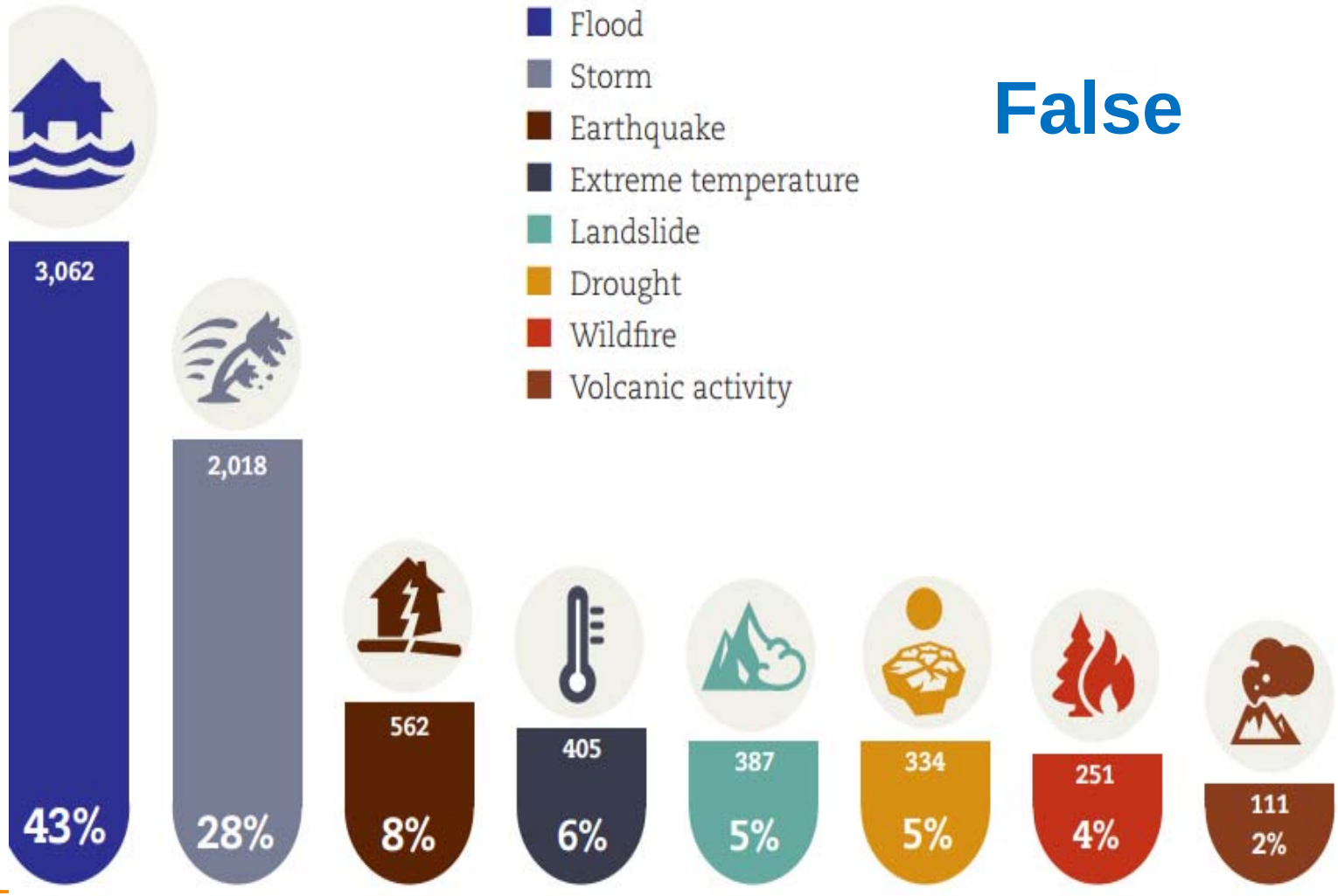
Flooding is the 3rd most common type of disaster worldwide.



False

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Most homeowner insurance covers flood losses.

False

https://msc.fema.gov/portal

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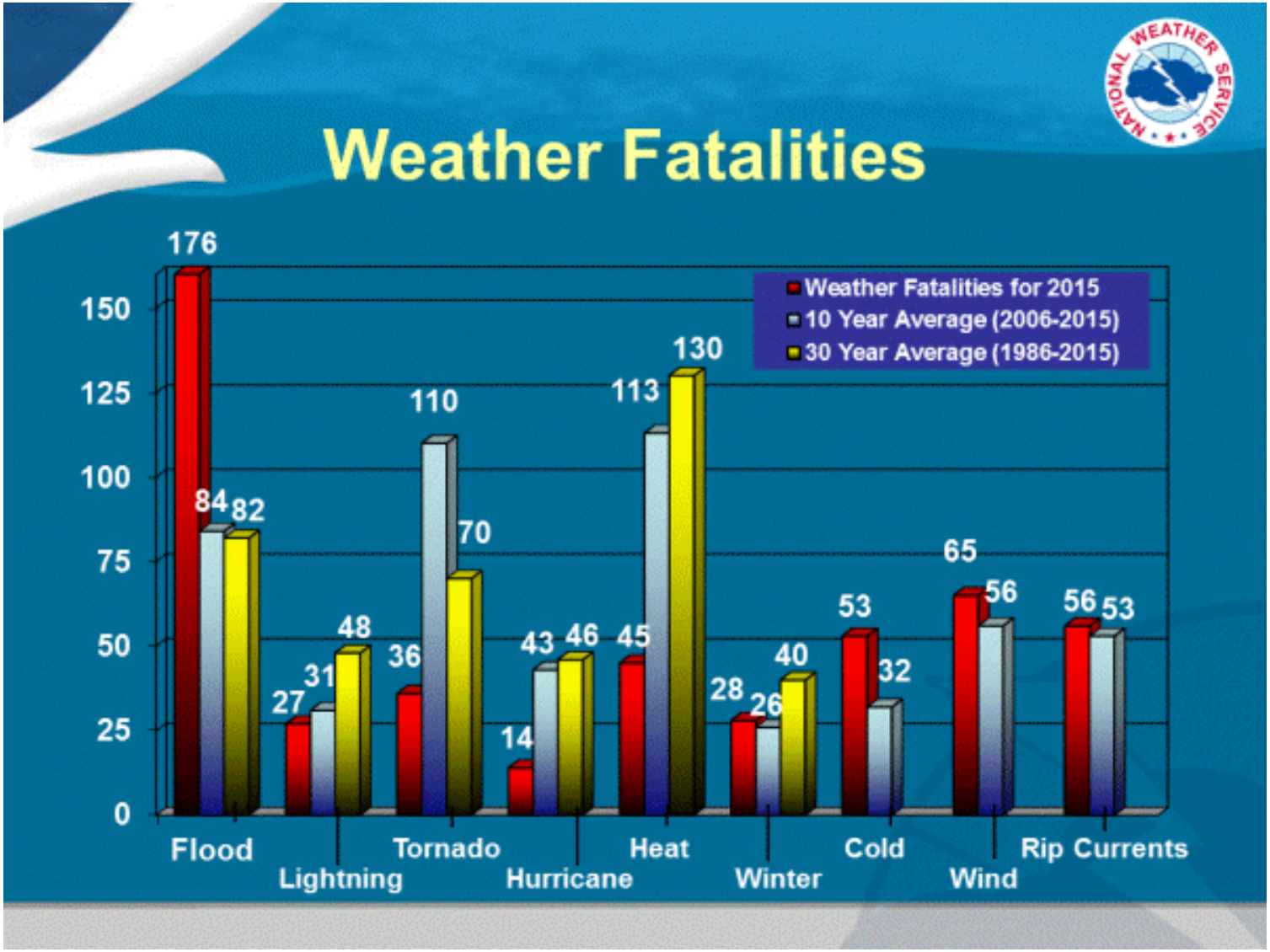
Flooding is the number three weather-related killer just behind fires and tornadoes.



Trick Question!

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The deadliest flooding event in US history was Hurricane Katrina.

False

9th: Mississippi River Flood Of 1993 (50)

8th: Big Thompson Canyon CO Flood Of 1976 (144)

7th: Rapid City Flood Of 1972 (238)

6th: Heppner Flood Of 1903 (247)

5th: Hurricane Camille Flooding Of 1969 (256)

4th: Mississippi River Flood Of 1927 (500)

3rd: Hurricane Katrina Flooding Of 2005 (1,800)

2nd: Johnstown PA Dam Flood Of 1889 (2,200)

1st: Galveston Flood of 1900 (8,000)

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The peak flood season is March.

False

Early Spring: areas near heavy snowfall; icejams

Spring /Summer: Seasonal thunderstorms and extended rains

Summer /Fall: Coastal areas due to tropical storms. Fall rains

Winter: Warm weather coupled with snow on ground and rain.

Black Hills
Flood, 1972

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Noah was a heck of a boat builder.

Absolutely!

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Animal Search and Rescue

- Request for Assistance - Activation
- Assessment
- Rescue: Owner Request, Incidental (at-risk), Community
- Extrication or SIP
- Field Intake
- Lilypad/Pre-transport
- Transport
- Shelter Intake
- Emergency Sheltering
- Reunification
- Decontamination

H. Matthew 2016

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Authority Having Jurisdiction

- All disasters occur and are managed locally **unless delegated**
- In most jurisdictions, animals “belong” to animal control
- If a County is overwhelmed, they can submit a request for outside resources
  - Interlocal
  - CARTs
  - NGOs
  - State -> Federal

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Thou shall not self-deploy!

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Assessment

ASPA - Initial Damage Assessment Form

Date of Assessment:	Requesting Agency & Contact Info:	Assessor & Contact Info:

GPS or Physical Address:	County/Parish	*EMERGENCY NEEDS* ☐NO ☐YES

OWNER/BUSINESS INFORMATION (Last, first, middle or name of business; phone # and/or email)

1. DISASTER EVENT (NAME OR TYPE, AND DATE)

2. Accessibility: **Air** **Boat** **Road**

3. ANIMAL DAMAGE INFORMATION

	Roaming	Injured	Missing	Carcasses	Good	Sustainable	Poor
Pets							
Cattle							
Dairy							
Equine							
Sheep/Goats							
Captive Wildlife							
Exotics/pocket pets							
Comm. Poultry							
Overall Animal Health	**(report by species; Good – Sustainable – Poor)**						

Water Source	**Fresh Water**	**Flood Water**	**Salt Water**	**None**
Animal Food	**1 month supply**	**1 week supply**	**3 day supply**	**None**

4. WILDLIFE INTERACTIONS

Did you experience any wildlife interactions?

☐NO ☐YES If yes, please list species and location and continue below:

_____

If YES, was the wildlife activity normal or abnormal for the species?

☐NORMAL ☐ABNORMAL ☐NOT SURE

5. CROP LOSSES (EXCLUDING TIMBER)

TOTAL ESTIMATED ACRES DESTROYED IN COUNTY/PARISH:_____

6. INFRASTRUCTURE LOSSES IN COUNTY/PARISH

	# Destroyed	# Open for Business
Private Veterinary Clinics		
Pet Shelters (include city locations under #8)		
Animal Feed & Supply Stores		
Livestock Sale Markets		
Boarding Facilities and Fairgrounds		
Commercial Pet Food & Supplies		
Fencing (report by # of Farms observed)		

7. IMMEDIATE NEEDS

	# PETS	# LIVESTOCK
VETERINARY ASSISTANCE		
FOOD		
LIVESTOCK CONTAINMENT EQUIPMENT		
SHELTER		
LIVESTOCK IDENTIFICATION		

8. ASSESSOR RECOMMENDATIONS:

- ☐ *Reassessment in ____ days.*
- ☐ *Send in Task Force of _____ responders with specialized experience in:*
  _____.
- ☐ *No follow-up needed*
- ☐ *Pet shelter locations (cities):*_____.

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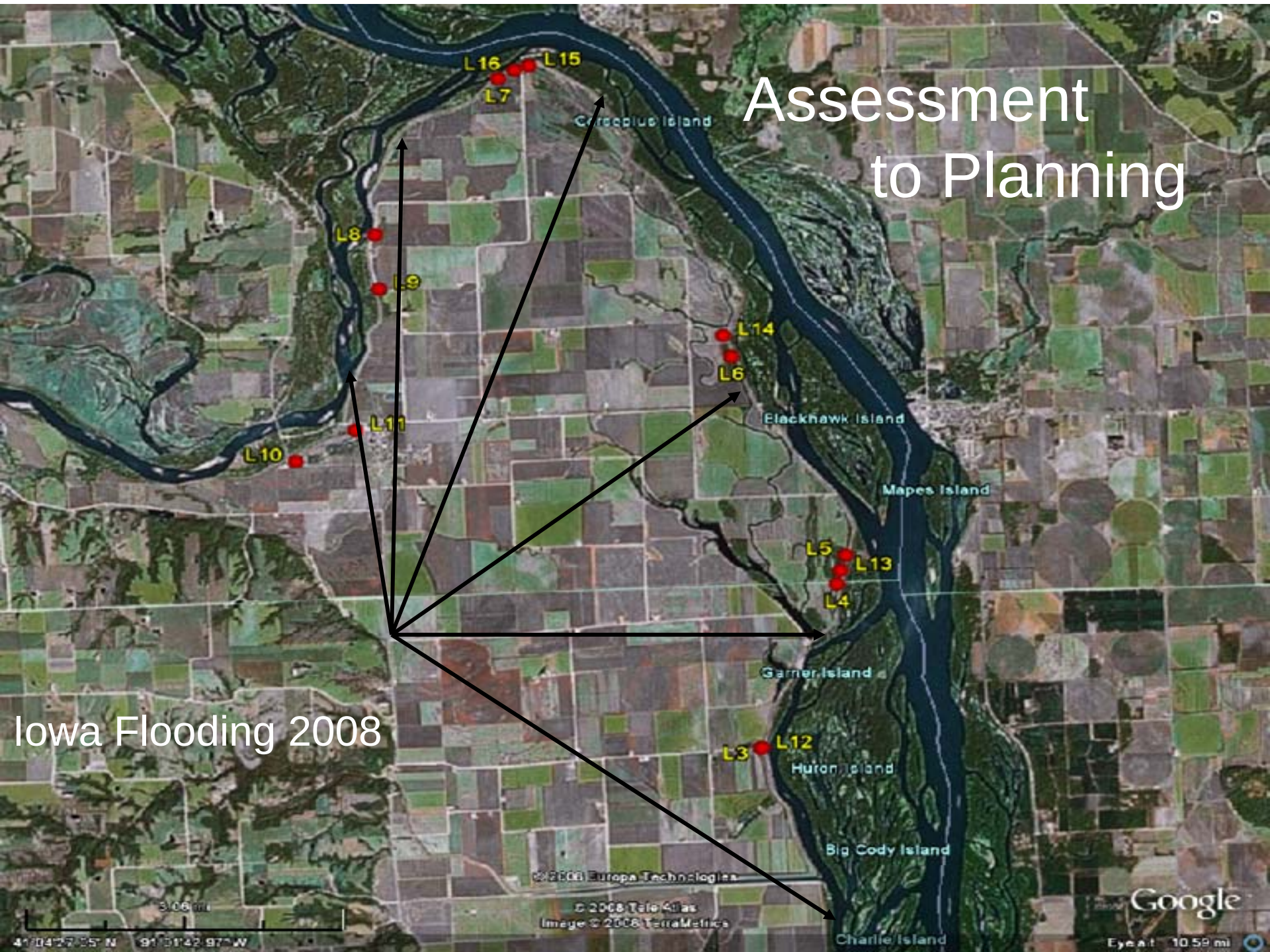
Assessment
to Planning
L16
L15
L7
L8
L9
L14
L6
L11
L10
L5
L13
L4
L3
L12
Iowa Flooding 2008
Google

Prioritizing Rescue

1. Human
2. Human and animal
3. Animal**

Stay out of the water and stay clear of human rescue efforts until that operation is concluded

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Animal Rescue

Rescue requests

- Dispatch
- Owner requested/community concerns
- Incidental (at-risk)
- Field request

Hurricane Matthew, 2016

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Extricate or
Feed-in-place?

Feeding-in-place

Have a Plan!!

Lumberton, 2016

Robeson County, NC October 12, 2016
Legend
Incidents
Roads
RiversStreams
Railroads
LakesPonds
FloodZones
CountyPoly
ASPCA
Animal Rescue

Field Rescue Form

Responder _____ ID Number _____

Date/Time _____ (Dept- year-case#-initials-#) (D-2013-03-DG-01)

Address/GPS coordinates _____

Contact info to reclaim animal _____

	Species	Breed	Description/ID	Condition
Animal info:	_____	_____	_____	_____
Animal info:	_____	_____	_____	_____
Animal info:	_____	_____	_____	_____
Animal info:	_____	_____	_____	_____
Animal info:	_____	_____	_____	_____

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Know your access/ field staging points

Lilypad/Field Staging

BURGER KING
KING
City Park
DVM

Transport

DAGUPAN CITY
Nakiisa sa
"FREEDOM
WALK"

Floodwater Hazards

- Vehicles, household, agricultural, chemical, manufacturing
- Sewage, treatment plants
- Zoonotic diseases

LA Floods 2016

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Types of Flooding

- Over the bank
- Flash flooding
- Ice jam
- Coastal
- Engineering

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Lumberton, 2016

H. Floyd, 99

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Emergency Sheltering: Lamar-Dixon, 2005

Hurricane Gustav 2008

Lamar-Dixon 2016

PRECISION
H. Matthew, 2016

Reunification: Matthew 2016

Gaddy and Caroline

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Decontamination

NYC Emergency Shelter, 2017

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Our goal…

To do our part to build stronger, more disaster resilient communities by enhancing their ***animal response capabilities***.

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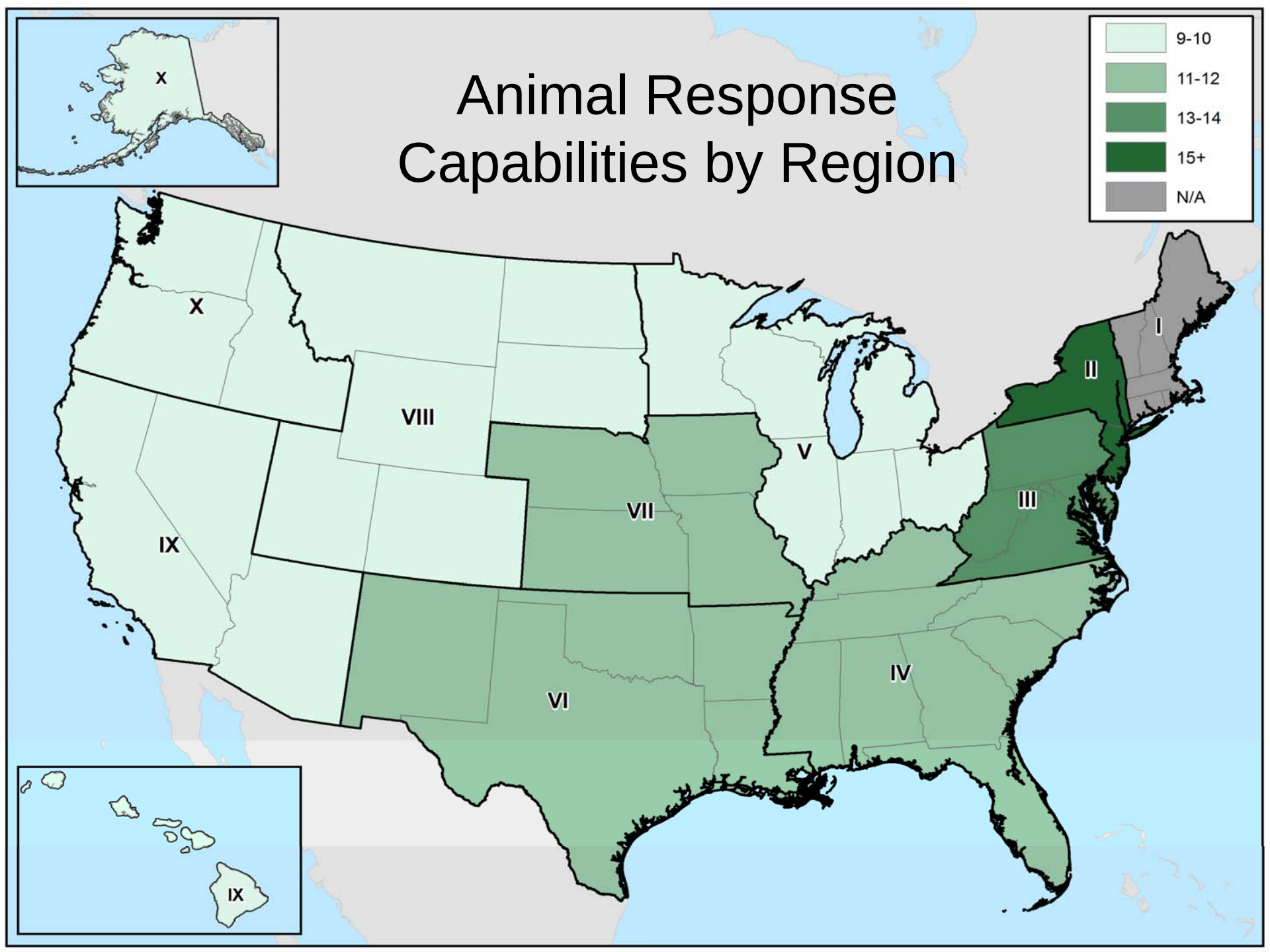
Animal Response
Capabilities by Region
9-10
11-12
13-14
15+
N/A
X
X
VIII
IX
VII
V
I
II
III
IV
VI
IX

Community Preparedness Checklist

An animal-specific Preparedness Checklist identifying the components we recognize as being critical for a community to be ***disaster resilient***

Areas of Focus:

Essential infrastructure

Organization & leadership

Risk assessment

Equipment & systems

Search and rescue

Personnel, volunteers, training

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Is your community ready?

Can you manage a large-scale flood in your area today?

a. Agreements in place
b. Relationships established
c. Rescue equipment and safety protocols
d. Training
e. Adequate number of trained responders/staff
f. Caches of supplies

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Thank you!

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