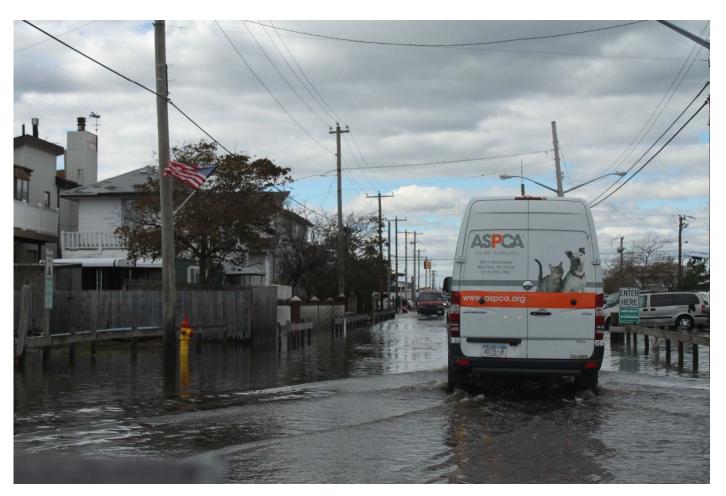
Responding to Hurricanes



Hurricane Sandy, 2012





Dick Green, Ed.D. Senior Director Disaster Response ASPCA <u>dick.green@aspca.org</u>



Lacie Davis Manager Disaster Response ASPCA Jacie.davis@aspca.org



© 2017 ASPCA®. All Rights Reserved.

Agenda

- Introductions
- Hurricanes101
- ASAR activities in hurricanes



Community Preparedness: Enhancing Response





H. Matthew, 2016



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

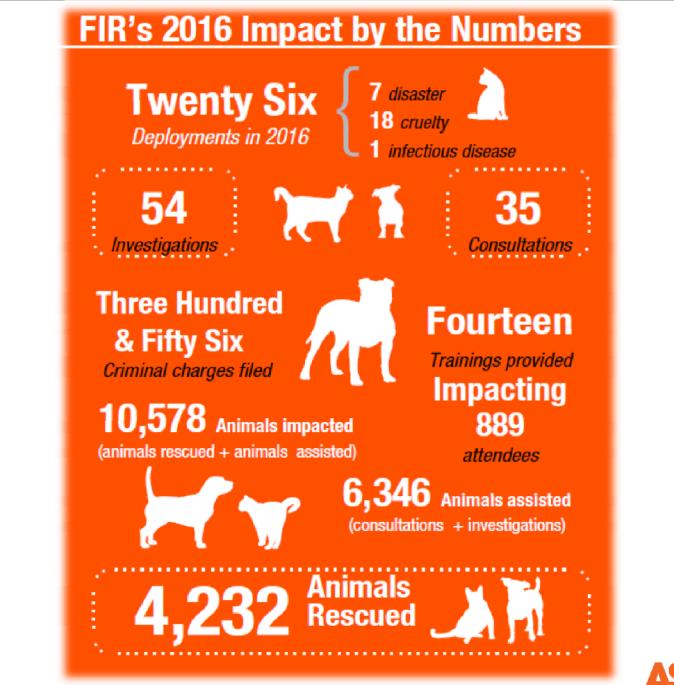
- Floods
- Hurricanes
- Tornados
- Earthquakes
- Fires
- Disease Outbreaks

Cruelty

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

Want to deploy with FIR? http://aspcapro.org/howindividuals-can-participate







Nearly 2,000 Unique Responders



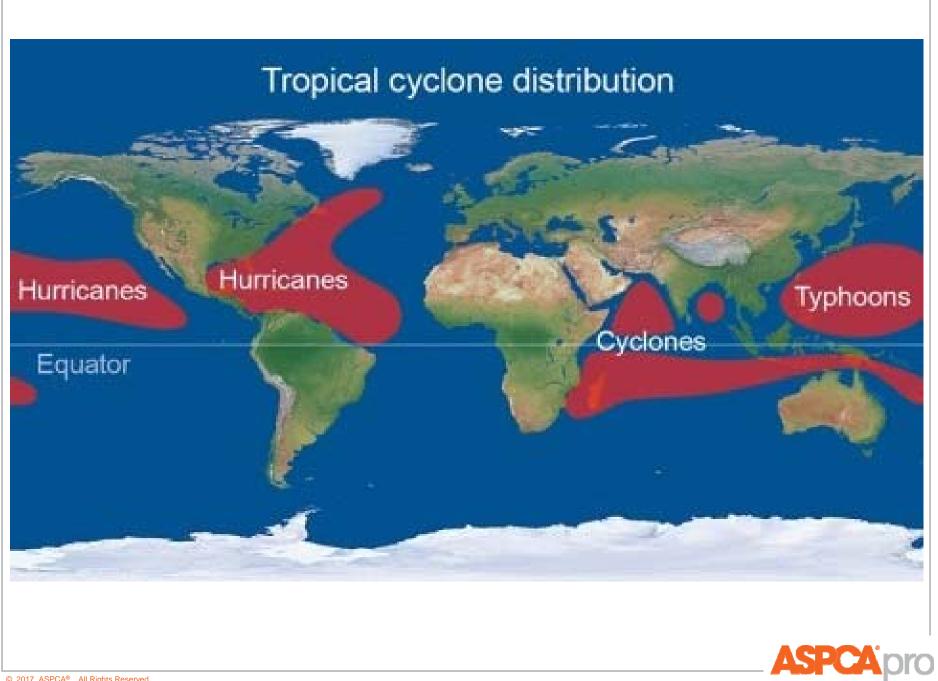




Hotel on Wheels







2017 Atlantic Hurricane Season Outloo Named storms 20% 11-17 35% **Hurricanes** 5-9 45% **Major Hurricanes** 2-4 Below-normal season Above-normal Near-normal Season probability

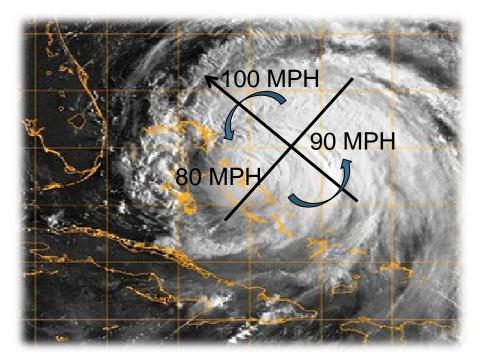
Be prepared: Visit hurricanes.gov and follow @NWS and @NHC_Atlantic on Twitter.

May 25, 20

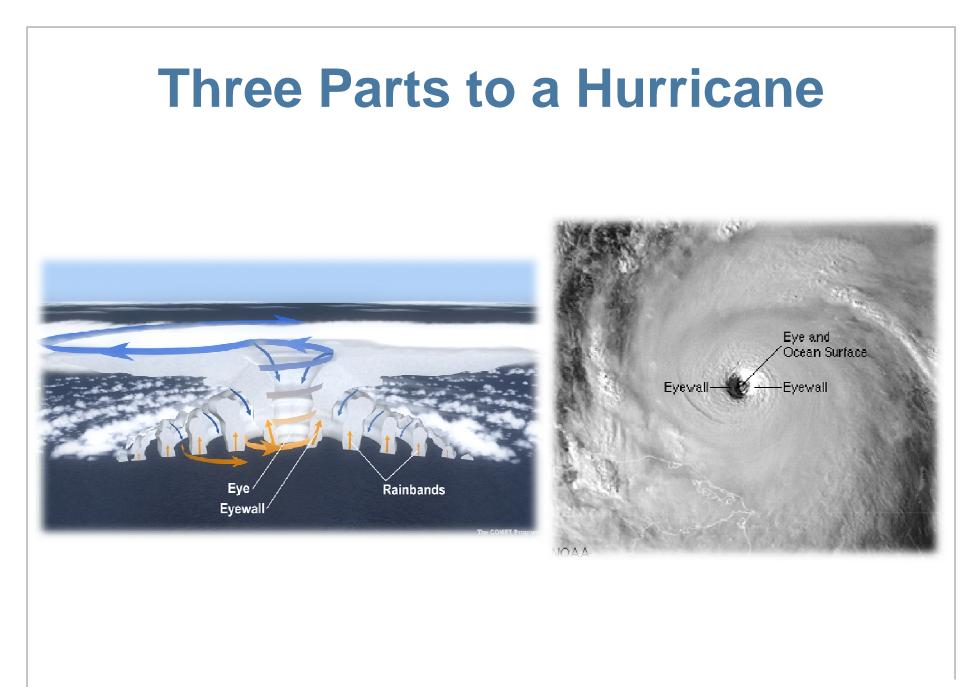
Hurricanes

The wind flow of hurricanes in northern hemisphere is counterclockwise - southern hemisphere is clockwise

Highest wind speeds are typically in the upper right quadrant (relative to direction of motion) and most rainfall in the upper left quadrant or near the eye.









Eye Wall Replacement





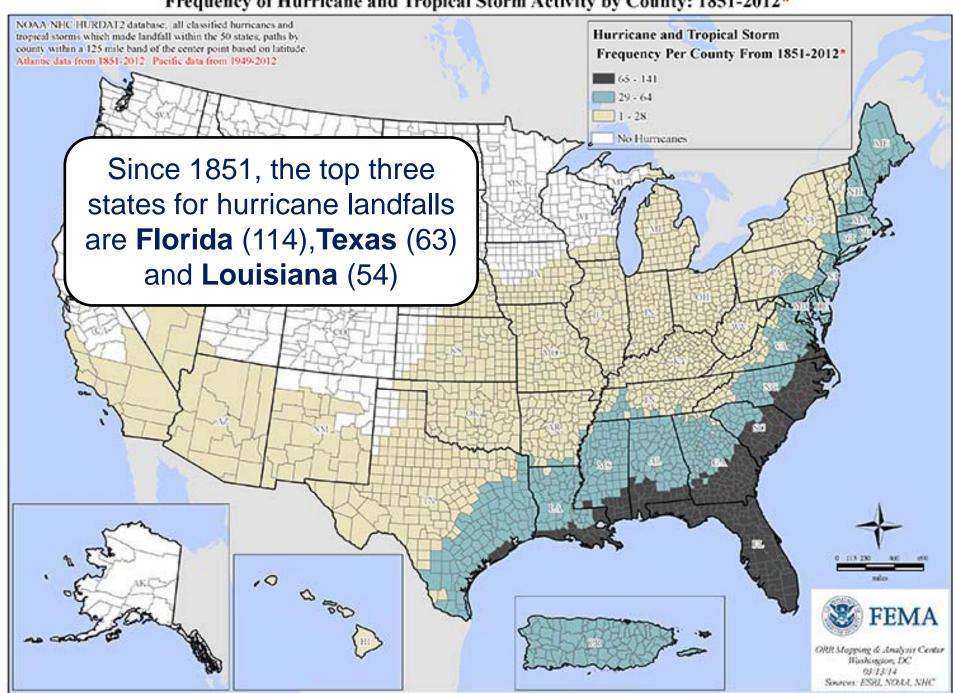


H. Katrina 05

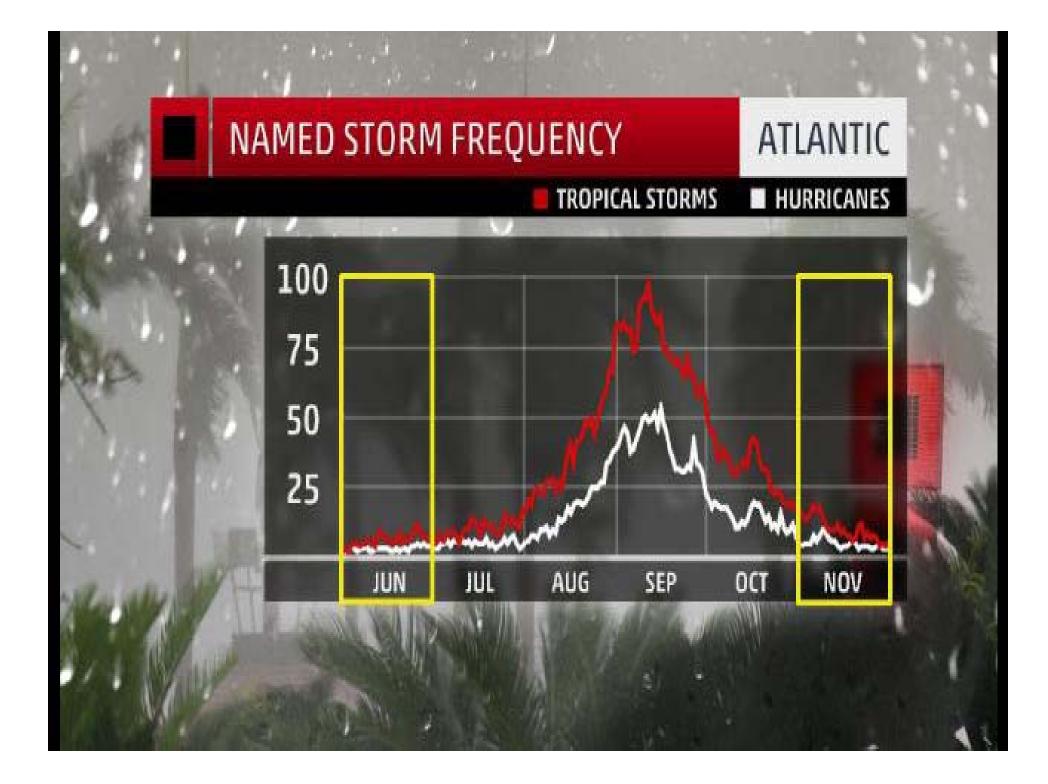


CONTINENTAL UNITED STATES HURRICANE STRIKES 1950 - 2013*

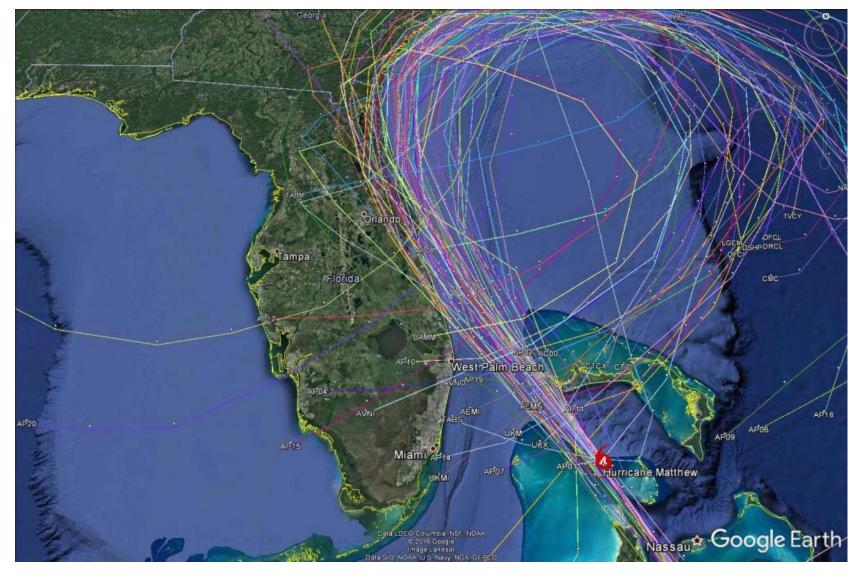




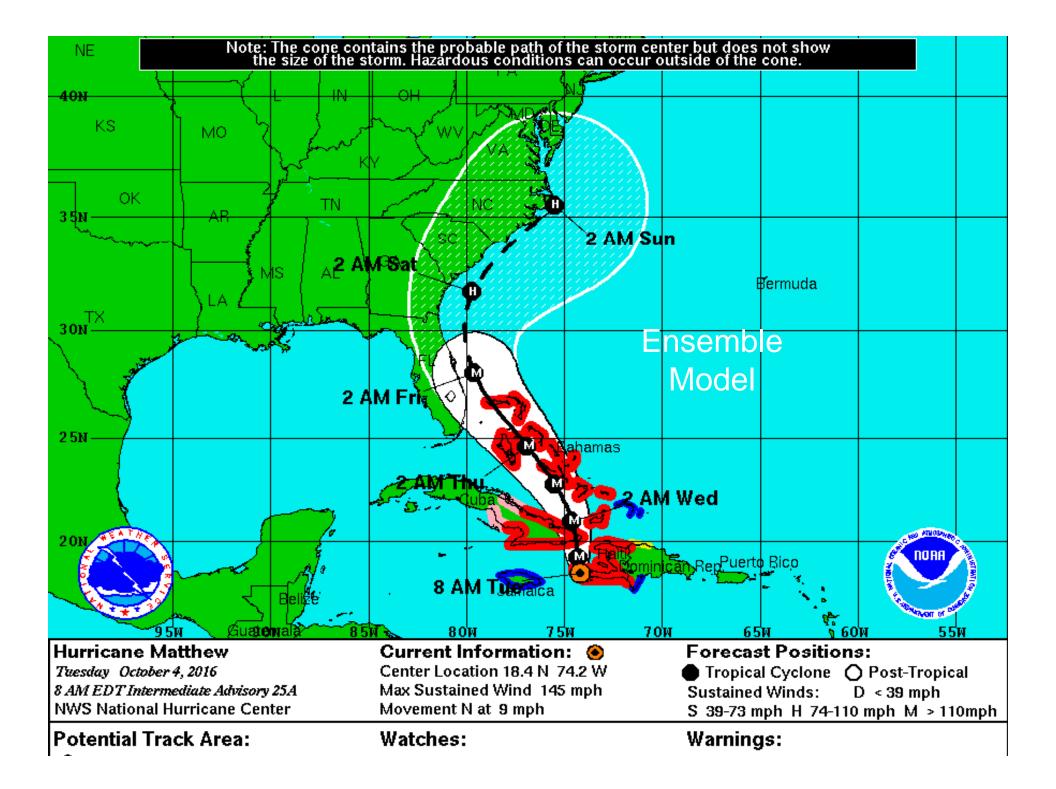
Frequency of Hurricane and Tropical Storm Activity by County: 1851-2012*



Tracking Storms: Spaghetti!







Hurricane Hazards

- Hazardous driving conditions
- Flying debris
- Lightning
- Exhaustion, heat and dehydration
- Falling objects such as tree limbs



H. Isaac, 2012

- Sharp objects including nails and broken glass
- Electrical hazards from downed power lines
- Flooding (and what is under the water!)



Personal Safety



- Have an evacuation plan identify a safe shelter & route
- Stock up on emergency supplies including food, water, protective clothing, medications, batteries, flashlights, important documents, road maps, **and a full tank of gas**
- Battery operated radio
- If unable to evacuate:
 - Stay inside the most secure building possible and stay away from windows
 - A lull often signifies the storm's eye—not its end Wait for authorities to announce that it's safe to venture out
 - Keep pets kenneled and livestock inside



Agency Safety and COOP

- Shelter-owned animals relocated pre-storm
- Determine shelter evacuation threshold
- Establish an Evacuation Team pet/animal identification
- Shelter coverage pre-, during, and post-storm
- Protecting documents/supplies and preparing for re-entry
- Think about rescue needs
- phone line, forms, credentials



H. Wilma, 05



Animal Challenges/Priorities

Pre-storm

- Encouraging AND facilitating evacuation
- CTNs
- Hard to move animals

During storm

• Shelter staff and animals

Post-storm

- Requests
- At-risk (animal and rescuer)
- Reunification





Evacuations*

- Critical Transportation Needs (CTN)
- Parish/County pick-up points
- Keep families together
- Documentation
- Distance to co-located sheltering
- Vet care on both ends and along route
- Pre, during, and post-event public messaging

*NASAAEP Evacuation and Transportation BPWG http://www.cfsph.iastate.edu /Emergency-Response/bpwg.php







Animal Search and Rescue

- Request for Assistance Activation
- Assessment
- Rescue: owner request, incidental (at-risk), community
- SAR challenges
- Extrication or SIP
- Field intake
- Field staging
- Transport
- Shelter intake
- Emergency sheltering
- Reunification





Field Rescue Work

- Land/water navigation
- Compromised structure
- Confined space
- Floodwater
- Accessing homes
- Protective clothing
- Lighting
- Comms
- Boats











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
 - o Interlocal
 - o CARTs
 - Local/national NGOs
 - \circ State → Federal

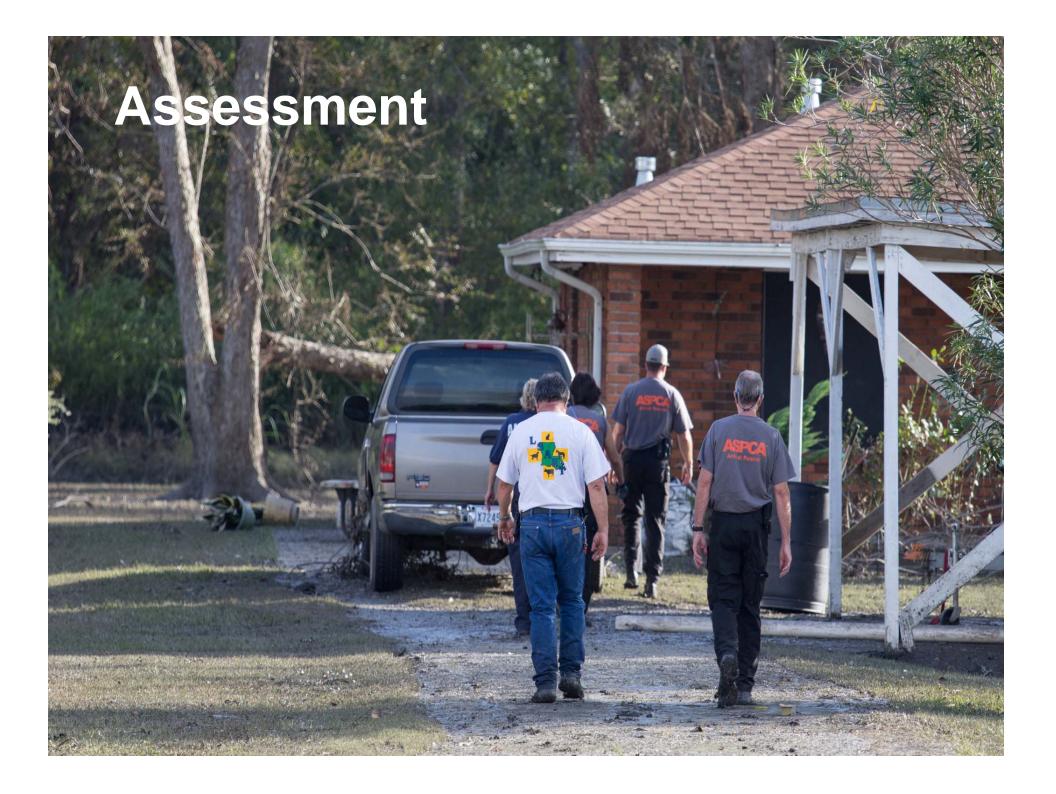




Thou shall not self-deploy!







Date of Assessment:	Requestin	g Agency	& Contac	t Info: Ass	essor & C	ontact Info:	
GPS or Physical Address:	County	/Parish		*EMERGENC	Y NEEDS	* NO	YES
·····							
OWNER/BUSINESS INFORMATIO	ON (Last, first,	middle or i	name of b	usiness; phone :	# and/or er	nail)	
1. DISASTER EVENT (NAME OR	TYPE, AND DA	ATE)		2. Accessibili	v:		
t t	,	,				Boat Road	
3. ANIMAL DAMAGE INFORMAT	TION						
	Roaming	Injured	Missing	Carcasses	Good	Sustainable	Poor
Pets							
Cattle							
Dairy							
Equine							
Sheep/Goats		-					
Captive Wildlife	-	-					
Exotics/pocket pets							
Comm. Poultry		L			I.,		
Overall Animal Health				stainable – Po		N	
Water Source	Fresh	Water	Flood	water San	Water	None	
Animal Food	1 mo	nth supply	, 1 w	eek supply	3 day su	ipply Non	
Annariood	1 110	itil Supply	1 44	eek supply	5 day St		6
Did you experience any wild NO YES If If YES, was the wildlife activ	yes, please li	st species and abnormal for		on and continue	below:		_
If YES, was the wildlife activ NORMAL ABNOR	yes, please li rity normal or RMAL NOT	st species a abnormal fo SURE	or the spe		below:		_
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE	yes, please li rity normal or RMAL NOT G TIMBER) ESTROYED IN C	st species a abnormal fo SURE COUNTY/PAR	or the spe		below:		_
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING	yes, please li rity normal or RMAL NOT G TIMBER) ESTROYED IN C	st species a abnormal fo SURE COUNTY/PAR	or the spe RISH:	cies?		en for Busines	- s
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES	yes, please li rity normal or RMAL NOT S TIMBER) ESTROYED IN C S IN COUNTY/P	st species a abnormal fo SURE COUNTY/PAR	or the spe RISH:			en for Busines	
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic	yes, please li vity normal or . MAL NOT S TIMBER) ESTROYED IN C S IN COUNTY/P S	st species a abnormal fr SURE COUNTY/PAF ARISH	or the spe RISH:	cies?		en for Busines	
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S	yes, please li ity normal or : MAL NOT 3 TIMBER) ESTROYED IN C 5 IN COUNTY/P 5 y locations u	st species a abnormal fr SURE COUNTY/PAF ARISH	or the spe RISH:	cies?		en for Busines	
Did you experience any wild No YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets	yes, please li vity normal or RMAL NOT G TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores	st species a abnormal fr SURE COUNTY/PAF ARISH	or the spe RISH:	cies?		en for Busines	<u>-</u>
Did you experience any wild No YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F	yes, please li rity normal or RMAL NOT G TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds	st species a abnormal fr SURE COUNTY/PAF ARISH	or the spe RISH:	cies?		en for Busines	S
Did you experience any wild No YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food &	yes, please li vity normal or a RMAL NOT G TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies	st species abnormal fo SURE COUNTY/PAF ARISH	or the spe RISH:	cies?		en for Busines	S
Did you experience any wild No YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food & Fencing (report by # of F	yes, please li vity normal or a RMAL NOT G TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies	st species abnormal fo SURE COUNTY/PAF ARISH	or the spe RISH:	cies?		en for Busines	S
Did you experience any wild No YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food &	yes, please li vity normal or a AMAL NOT S TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies	st species abnormal fo SURE COUNTY/PAF ARISH	or the spe RISH:	cies? Destroyed			
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DI 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food & Fencing (report by # of F 7. IMMEDIATE NEEDS	yes, please li vity normal or a AMAL NOT S TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies	st species abnormal fo SURE COUNTY/PAF ARISH	or the spe RISH:	cies?		en for Busines # Livestock	
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food & Fencing (report by # of F 7. IMMEDIATE NEEDS VETERINARY ASSISTANCE	yes, please li vity normal or a AMAL NOT S TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies	st species abnormal fo SURE COUNTY/PAF ARISH	or the spe RISH:	cies? Destroyed			
Did you experience any wild No YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food & Fencing (report by # of F 7. IMMEDIATE NEEDS VETERINARY ASSISTANCE Food	yes, please li rity normal or RMAL NOT G TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies Farms observ	st species abnormal fo SURE COUNTY/PAF ARISH	or the spe RISH:	cies? Destroyed			
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food & Fencing (report by # of F 7. IMMEDIATE NEEDS VETERINARY ASSISTANCE FOOD LIVESTOCK CONTAINMENT EC	yes, please li rity normal or RMAL NOT G TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies Farms observ	st species abnormal fo SURE COUNTY/PAF ARISH	or the spe RISH:	cies? Destroyed			
Did you experience any wild No YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food & Fencing (report by # of F 7. IMMEDIATE NEEDS VETERINARY ASSISTANCE FOOD LIVESTOCK CONTAINMENT EC SHELTER	yes, please li rity normal or RMAL NOT G TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies Farms observ	st species abnormal fo SURE COUNTY/PAF ARISH	or the spe RISH:	cies? Destroyed			
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DE 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food & Fencing (report by # of F 7. IMMEDIATE NEEDS VETERINARY ASSISTANCE FOOD LIVESTOCK CONTAINMENT EC SHELTER LIVESTOCK IDENTIFICATION	yes, please li vity normal or a RMAL NOT G TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies Farms observ QUIPMENT	st species abnormal fo SURE COUNTY/PAF ARISH	or the spe RISH:	cies? Destroyed			
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DI 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food & Fencing (report by # of F 7. IMMEDIATE NEEDS VETERINARY ASSISTANCE FOOD LIVESTOCK CONTAINMENT EC SHELTER LIVESTOCK IDENTIFICATION 8. ASSESSOR RECOMMENDA	yes, please li vity normal or a RMAL NOT G TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies Fairgrounds Supplies Farms observ QUIPMENT QUIPMENT	st species a abnormal fo SURE COUNTY/PAF ARISH nder #8)	or the spe RISH:	cies? Destroyed			
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DI 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food & Fencing (report by # of F 7. IMMEDIATE NEEDS VETERINARY ASSISTANCE FOOD LIVESTOCK CONTAINMENT EC SHELTER LIVESTOCK IDENTIFICATION 8. ASSESSOR RECOMMENDA	yes, please li vity normal or a RMAL NOT G TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies Farms observ QUIPMENT TIONS: in days.	st species a abnormal fo SURE COUNTY/PAF ARISH nder #8) /ed)	RISH:	Cies? Destroyed #PETS	# Op	# Livestock	
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DI 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food & Fencing (report by # of F 7. IMMEDIATE NEEDS VETERINARY ASSISTANCE FOOD LIVESTOCK CONTAINMENT EC SHELTER LIVESTOCK IDENTIFICATION 8. ASSESSOR RECOMMENDA	yes, please li vity normal or a RMAL NOT G TIMBER) ESTROYED IN C S IN COUNTY/P S y locations u tores Fairgrounds Supplies Farms observ QUIPMENT TIONS: in days.	st species a abnormal fo SURE COUNTY/PAF ARISH nder #8) /ed)	RISH:	Cies? Destroyed #PETS	# Op	# Livestock	
Did you experience any wild NO YES If If YES, was the wildlife activ NORMAL ABNOR 5. CROP LOSSES (EXCLUDING TOTAL ESTIMATED ACRES DI 6. INFRASTRUCTURE LOSSES Private Veterinary Clinic Pet Shelters (include city Animal Feed & Supply S Livestock Sale Markets Boarding Facilities and F Commercial Pet Food & Fencing (report by # of F 7. IMMEDIATE NEEDS VETERINARY ASSISTANCE FOOD LIVESTOCK CONTAINMENT EC SHELTER LIVESTOCK IDENTIFICATION 8. ASSESSOR RECOMMENDA	yes, please li vity normal or a vity nor	st species a abnormal fo SURE COUNTY/PAF ARISH nder #8) /ed)	RISH:	Cies? Destroyed #PETS	# Op	# Livestock	

Prioritizing Rescue

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



Stay out of the flood/hot zone and stay clear of human rescue efforts until you are authorized to enter



Animal Rescue

- Rescue requests
- Dispatch
- Owner requested
- Community concerns
- Incidental (at-risk)
- Field request







Feeding-in-Place







© 2017 ASPCA®. All Rights Reserved.



Have a plan!!

h County, NC October 12, 2016

CAI

		ASPC							
Field Rescue Form									
Responder			ID Number						
Date/Time		(Dept- year-case#-initials-#) (D-2013-03-DG-01)							
Address/GPS co	ordinates								
Contact info to r	reclaim animal								
	Species	Breed	Description/ID	Condition					
Animal info:									
Animal info:									
Animal info:									
Animal info:									
Animal info:									
017 ASPCA® All Rights Reserved				_ ASPCA p					

Know your Access and Field Staging Areas

Field Staging/Lilypad









Transport





Emergency Sheltering



H Matthew 2016





Emergency Sheltering: Lamar-Dixon, 2005

Sheltering Models

Emergency Shelter Co-located shelter Co-habitated shelter



H. Gustav, 2008

Advantages and disadvantages

Intake/database

Securing resources when setting up or running a shelter

On-going purchases (agency or EOC)



Decontamination

- Animals
- Equipment
 - Trucks, boats, PPE
- Supplies





Reunification

- Coordination with other rescue groups, local and state agencies
- Social media and agency websites
- Good photography
- Identify first, then show photos
- Photo boards
- Proof of ownership
- ID and contact information
- Release form







Our goal...

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





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





Is your community ready?

Can you manage a hurricane response in your area today?

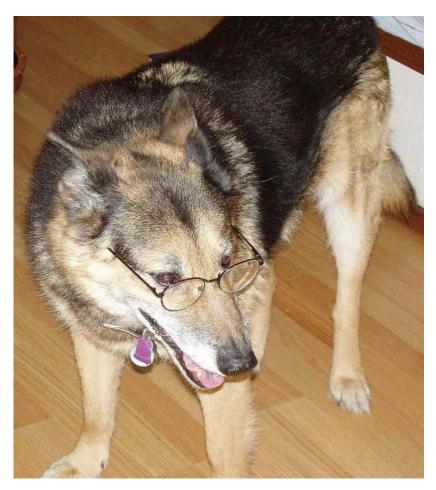
- a. Agreements in place
- b. Relationships established
- c. Rescue equipment and safety protocols
- d. Training
- e. Adequate number of trained responders/staff
- f. Caches of supplies



Thank you!

Lacie.Davis@aspca.org

Dick.Green@aspca.org



Andybob Green, 2008

