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COASTAL STORM DAMAGE

Background Information

1.	Is this your primary residence?
YE	1. NO ES
1a	. If not, is it a (CIRCLE ONE ANSWER)
	 Second Home Rental Other (PLEASE SPECIFY)
2.	How many years have you owned this house? YEARS
3.	How old is your home? YEARS OLD
4. live	Approximately how many times has your home had coastal storm damage since you've ed here, including Hurricane <u>(Name)</u> or the coastal storm of <u>(date)</u> ? TIMES

5. Where is your nome situated? (CHECK ONE)
Oceanfront, if so how many feet is your home from the ocean at mean high water line?
First row behind oceanfront Ocean block (Within a block of the ocean) On a sound or back bay Interior, (More than a block from the ocean bay, or sound)
Structural and Outside Property Data
6. Not counting your attic, garage, or the under portion of an elevated building how many square feet of living area are in your home? (If you are unsure, please give the dimensions.) SQUARE FEET or (FEET XFEET)
7. What type of foundation does your home have? (PLEASE CIRCLE ONE ANSWER AND INDICATE NUMBER OF FEET, WHERE APPROPIATE)
1. Slab
2. Piling - If piling, how many feet do they go below ground? Feet
3. How many feet do they elevate the structure above ground? Feet
4. Concrete Block –
If so, how many feet do they go below ground? Feet
5. Other type of foundation, please describe.
8. If you have an elevated building, is there an under-the-house enclosure?
(CIRCLE YES OR NO)
YES NO
If yes, please indicate the size of enclosed area devoted to each of the following uses: 8a. Finished living area: SQUARE FEET or (FEET X FEET)
8b. Utility space SQUARE FEET or (FEET X FEET)
8c. Garage: SQUARE FEET or (FEET X FEET)

8d. Other: Please describe:							
SQUARE FEET or (FEE	т Х						
9. Do you have an attached garage that is not und	der the house?						
(CIRCLE YES OR NO) YES NO							
9a. If so, indicate the size of the attached of	jarage.						
SQUARE FEET or (FEE	T XFEET)						
10. Do you have a detached garage that is not un	der the house?						
(CIRCLE YES OR NO) YES NO							
10a. If so, indicate the size of the detache	d garage.						
SQUARE FEET or (FEE	T XFEET)						
11. What category best describes the style of this	building?						
(CIRCLE ONE ANSWER)							
 One-Story Two-Story Three-Story Split Level 1-1/2 Story Finished 1-1/2 Story Unfinished 2-1/2 Story Unfinished 2-1/2 Story Unfinished 	9. 3-1/2 Story Finished10. 3-1/2 Story Unfinished11. Bi-Level						
12. Not counting any basement, attic, or garage, I your home? (If respondent is unsure, ask for the d	, ,						
SQUARE FEET							
13. Does your home have a basement? (CIRCLE)							
1. NO (Skip to 14) 2. YES							
13a. If yes, please indicate the total basement area, in square feet, and the amount that is finished and unfinished? (If respondent is unsure, ask for the dimensions and calculate.)							
TOTAL BASEMENT AREA: SQUARE FEET							
FINISHED BASEMENT AREA: SQUARE FEET							

UNFINISHED BASEMENT AREA: _	SQUARE FEET					
14. Do you have a carport? (CIRCLE)						
1. NO 2. YES						
14a. How large is the carport in square feet? (If respondent is unsure, ask for the dimensions and calculate.)						
SQUARE FEET						
15. What category best describes th	ne heating and cooling system in this building?					
(CIRCLE ONE ANSWER FO	R MOST PROMINENT SYSTEM)					
Heating Only: 1. Forced Air 2. Gravity Furnace 3. Floor Furnace 4. Wall Furnace (No Heat Ducts) 5. Floor, Radiant Hot Water						
Heating and Cooling: 11. Warmed and Cooled Air 12. Heat Pump System						
Cooling Only: 13. Evaporative Water Cooler (Single or Short Ducts) 14. Refrigerated, with Condenser and Ducts						
16. What is the <u>primary</u> exterior wal	I covering on this building?					
(CIRCLE ONE ANSWER)						
1. Plywood4. Siding7. Common Brick2. Hardboard5. Shingle8. Face BrickSheets6. Masonry9. Stone3. StuccoVeneer10. Concrete Block						

 Composition Shingle Built-up Rock Wood Shingle (Embedded in Asphalt) Wood Shake 	 5. Concrete Tile 6. Clay Tile 7. Galvanized Metal 8. Slate 9. Composition Roll 						
18. How many fireplaces are in this FIREPLACES	s home? FIREPLACES						
19. How many square feet of each of home? (If you are unsure of square	of the following types of porches are there in this feet, please give dimensions.)						
Slab	SQUARE FEET Or (Feet X Feet)						
Slab with Roof	SQUARE FEET Or (Feet X Feet)						
Wood Deck	SQUARE FEET Or (Feet X Feet)						
Enclosed Slab Porch	SQUARE FEET Or (Feet X Feet)						
Enclosed Wood Porch	SQUARE FEET Or (Feet X Feet)						
20. Do you have an elevator in your	home?						
Yes No							
21. How high is the first floor of you	r building above the lowest adjacent grade?						
FEE	ΞΤ						
22. How high is the first floor of your building above the where flood water would first enter your building (from considering windows and pipes into the foundation?							
FEET							

17. What is the primary roof covering of this building? (CIRCLE ONE ANSWER)

23. Please note any long-term flood proofing method, which may be used on this property.

(PLEASE CIRCLE YES OR NO FOR EACH COLUMN.)

Long-Term Flood Proofing Methods	Original Construction		Retrofitted (after original construction)		Was Method Effective?	
Elevated Construction	YES	NO	YES	NO	YES	NO
Reinforced piling	YES	NO	YES	NO	YES	NO
Extended piling	YES	NO	YES	NO	YES	NO
Bracing	YES	NO	YES	NO	YES	NO
Sealant or Shield What type?	YES	NO	YES	NO	YES	NO

24. Please indicate 1) which utilities are elevated in your home in order to prevent flood damage and 2) indicate whether the elevating was effective:

(PLEASE CIRCLE YES OR IN BOTH COLUMNS.)

Utility	I	Elevated		Was method effective?		
Air Conditioner	Yes	No	Yes	No	N/A	
Furnace	Yes	No	Yes	No	N/A	
Washer/Dryer	Yes	No	Yes	No	N/A	
Water Heater	Yes	No	Yes	No	N/A	
Other:	Yes	No	Yes	No	N/A	

25. Other than in the under-the-nouse enclosure, do you have a garage on this property?(CIRCLE)1. NO (Skip to 26)2. YES
25a. Is the garage attached to the structure? (CIRCLE) 1. NO 2. YES
25b. How large is the garage in square feet? (If you are unsure, please give the dimensions.)
SQUARE FEET Or (Feet X Feet)
26. How high is the first floor of your building above the lowest adjacent grade?
FEET
COSTS AND DAMAGES
The next group of questions is to determine damages to different types of property from the Hurricane <u>(NAME)</u> or the coastal storm of <u>(DATE</u>).
27. Please indicate how high (in feet and inches) did any standing water in your home reach relative to the first floor of your home?
FEET;INCHES (ABOVE, BELOW) FIRST FLOOR LEVEL
[CIRCLE] 28. Please indicate how high in feet and inches did any <u>waves</u> reach relative to the first floor of your home?
FEET;INCHES (ABOVE, BELOW) FIRST FLOOR LEVEL [CIRCLE]
29. Please indicate the <u>primary source</u> of damage to your home, excluding wind damage? (CIRCLE ONE)
 STORM SURGE (a sudden flow of water associated with a storm event) WAVE RUNUP (the rush of water up a structure, associated with the breaking of a wave)
3. INUNDATION (the buildup of water overflow or ponding)4. EROSION5. OTHER

(CIRCLE) 1. NO (Skip to 31) 2. YES 30a. How many days did you or other occupants of your home to spend in temporary residence due to the evacuation or while flood damage to your home was being repaired? DAYS 30b. How much money did your household spend beyond your normal travel expense, on travel and lodging due to your evacuation(s) during Hurricane (Name) ? ____ DOLLARS 30c. Due to your evacuation, how much money did your household spend on food in excess of what you normally would have spent? ____ DOLLARS 31. Was there erosion damage to your lot? 31a. If so, how many square feet of your lot were eroded? _____ Square Feet? 31b. What percentage of the lot directly under your home (footprint of your home) was eroded? _____Percent 31c. What were the total costs to repair the erosion damage to your lo/t and your home?

30. Did the flooding from this storm make it necessary for you or other occupants of your home to stay in temporary residence due to evacuation or while your home was being repaired?

32. For each motor vehicle, (including sedan, vans, sports utility, sports cars, station wagons, pickup trucks, boats, jet skis, golf carts, and motorcycles) located at this residence during the flood, please indicate the dollar value, whether or not it was moved, the dollar amount of damage to the vehicle, if any, and the level, in feet and inches, that the flood water reached above the bottom of the vehicle's wheels.

Motor Vehicle Category and Year (Categories include: sedan, vans, sports utility, sports cars, station wagons, pickup trucks, boats, jet skis, golf carts, and motorcycles)	Dollar Value	Was it Moved to a safe location? (CIRCLE YES OR NO)	Dollar Damage	Depth of Water from the Bottom of the Vehicle
Vehicle 1:	\$	YES NO	\$	FEET
Vehicle 2:	\$	YES NO	\$	FEET
Vehicle 3:	\$	YES NO	\$	FEET

The following questions are to determine the dollar cost and unpaid hours for repair and cleanup of your home, and repair, replacement, and cleanup to the contents of your home that resulted from Hurricane _(NAME)							
33. What was the cost of the structural damage to your home? (Structural damage is defined as damage to any building components, including foundation, walls, floors, windows, roof, electrical systems, heating and cooling systems, plumbing, attached carpeting, attached shelves and cabinets, and built-in equipment and appliances.)							
\$ DOLLAR COSTS OF STRUCTURE DAMAGE							
33a. Which of the following is the <u>primary</u> source of your structure damage repair costs?							
(Circle one)							
 a. Contractor estimate (before repairs) b. Contractor invoice (after repairs) c. Your own assessment d. Other 							
33b. What was the dollar cost to you for <u>labor and supplies</u> to clean up your home after the hurricane?							
\$							
33c. What was the total number of unpaid hours that you and others spent on repair and cleanup to your home?							

____ UNPAID HOURS

34. Please itemize your total structural damages and any additional time that was spent on repairs other than paid labor hours into the following categories.

Portion of Structure	Value of Damages				
	In % of total <u>Or</u> in Dollars		Unpaid Hours to repair or install, in addition to \$ spent		
Built-in shelves and appliances	%	\$	UNPAID HOURS		
2. Electrical	%	\$	UNPAID HOURS		
3. Plumbing	%	\$	UNPAID HOURS		
4. Exterior walls, windows, doors (painting included), and roofing% \$		\$	UNPAID HOURS		
5. Footings and foundation	%	\$	UNPAID HOURS		
6. Interior doors and walls (painting included)	%	\$	UNPAID HOURS		
7. Interior floors, carpet and ceilings	%	\$	UNPAID HOURS		
8. Mechanical systems - heat, A/C, sump pump, built-in vacuum	%	\$	UNPAID HOURS		
9. Porches and decks	%	\$	UNPAID HOURS		
10. Chimneys and	%	\$	UNPAID HOURS		

	fireplaces						
	11. Garages and outbuildings	%	\$		UNPAID HOURS		
	12. Outside property and landscaping	%	\$		UNPAID HOURS		
	13. Septic, sewer, and water systems	%	\$		UNPAID HOURS		
	Total	100 %	\$		UNPAID HOURS		
35. What was the dollar damage to the <u>contents</u> of your home, garage, and shed, excluding motor vehicles? (Only include <u>content</u> replacement and repairs. Do not include repairs to the structure of the house).							
-	damage refers to damag at is not permanently a	-		kept inside th	e home or the		
36. What v	vas the total number of <u>u</u> s, furniture, and other con	npaid hours Itents of you	that you and ur home?	l others spent o	n repair of		
	UNPAID HOURS						
	nuch, if anything, did eac es as a result of Hurricar			ou in actual dolla	ar		
a) Costs fo	or moving furniture and o	ther belongi	ngs?	\$			
b) Costs for storing furniture and other belongings? \$							
c) Vandalism, looting, or theft costs? \$							
d) Costs from flooding-related medical problems? \$							
e) Any oth	er costs due to Hurricane	e		\$			
Describe:				\$			

	<u> </u>
38. Is there a swimming pool on your lot?	
YesNo, Go to Question 39	
38a. Was your swimming pool damag	ged by Hurricane <u>(NAME)</u> ?
YesNo, Go to 0	Question 39
	m Hurricane <u>(NAME)</u> associated with your s destroyed, please estimate the replacement
\$ SWI	IMMING POOL REPAIR COSTS
38c. What are the dimensions of your	swimming pool?
Size Range o	of Depth
feet Xfeetfeet	at shallowest point feet at deepest point
38d. Is your swimming pool on the or	ceanfront side of your home?
YesNo	
39. List any additional features, such as hot t by Hurricane <u>(NAME)</u> .	tub, tile works, etc. that may have been damaged
<u>Item</u> <u>S</u> <u>APPLICABLE</u>	\$ Damage CIRCLE N/A, IF NOT
HOT TUB	<u>\$</u> <u>N/A</u>
TILE WORK	\$ <u>N/A</u>
DECKING	<u>\$</u> <u>N/A</u>
OTHER (SPECIFY)	\$ <u>N/A</u>

Flood Warning and Response

40.	Just before _	(DATE)	storm, how did you first become aware that flooding
might	reach your bus	siness?	(CIRCLE ONE ANSWER)
1.	E-MAIL		

- 2. TEXT MESSAGE
- 3. SOCIAL NETWORKING WEBSITE (FACEBOOK, TWITTER, SNAPCHAT, etc.)
- 4. TV
- 5. RADIO
- 6. TELEPHONE BY A PUBLIC OR EMERGENCY WORKER
- 7. TELEPHONE BY OTHER
- 8. FACE TO FACE BY PUBLIC OR EMERGENCY WORKER
- 9. FACE TO FACE BY OTHER
- 10.LOUDSPEAKER
- 11. SIREN
- 12. C.B., HAM RADIO or POLICE SCANNER
- 13. NEWSPAPER
- 14. OBSERVING THE CREEK OR RIVER WATER LEVELS
- 15. OTHER _____

41.	low many hours were there between the time you first became aware that floodi	ng
migh	reach your property until when the water actually reached your property?	

What actions, if any, did you take to safeguard your business property 42. immediately prior to flooding and what were the dollar damages prevented by each action?

(PLEASE CIRCLE YES OR NO FOR EACH ACTION LISTED BELOW AND INDICATE THE DOLLARS DAMAGES PREVENTED FOR EACH ACTION.)

DAMAGE PREVENTIVE ACTION	PRE	TOOK EVENTIVE ACTION	OOLLAR DAMAGE PREVENTED (PLEAS FILL IN \$ DAMAGES PREVENTED OR CIRCLE DK FOR DON'T KNOW.)		
Moved contents to higher ground	YES	NO	\$	OR	DK
2. Elevated contents to a higher spot in the building	YES	NO	\$	OR	DK
3. Shut off electrical equipment	YES	NO	\$	OR	DK
4. Sandbagged the outside of the building	YES	NO	\$	OR	DK
5. Used another type of temporary barrier	YES	NO	\$	OR	DK
6. Moved vehicles to higher ground	YES	NO	\$	OR	DK
7. Other action					
	YES	NO	\$	OR	DK
8. None	YES	NO			

43. Emergency Measures/Plans:
43a. What emergency measures/plans, if any, would you take to reduce damage if you were forewarned of another coastal storm?
43b. What is your estimated cost to implement these emergency measures?
\$
43c. How much time (in man hours) is required to implement these emergency measures?
MAN HOURS