SUPERSTORM SANDY SURVEY: IMPACT ON NEW JERSEY COASTAL RESIDENTS

Monmouth University Polling Institute

in partnership with

Jersey Shore Partnership Foundation

Urban Coast Institute, Monmouth University

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SUMMARY

Superstorm Sandy's impact on coastal communities in New Jersey was unprecedented. This survey, conducted by the Monmouth University Polling Institute in conjunction with the New Jersey Shore Partnership Foundation and Monmouth University's Urban Coast Institute, was undertaken to establish the full extent of the impact on the state's coastal residents, their understanding of the rebuilding process, and their opinions on proposed policies to create a more resilient shoreline.

The telephone survey was conducted in late February 2013 with 501 New Jerseyans who live within one mile of the coastline, from the northern shore counties of Monmouth and Ocean to the southern shore of Atlantic and Cape May.

Storm Preparations and Impact

Most New Jersey coastal residents were caught off guard by the strength of Superstorm Sandy, with 62% saying it was more serious than expected. About half of New Jersey's coastal residents (49%) expect that a similar storm will occur sometime in the next ten years. Only 26% say Sandy was a once in a lifetime event.

Seven-in-ten coastal residents (71%) report that they were either ordered or advised to evacuate before the storm, but only 34% actually did. Another 7% left while the storm was underway and 5% had to leave after the storm passed. Overall, 47% of coastal residents who live in a Sandy evacuation area say they are now more likely to heed future evacuation warnings, while 10% are less likely to do so.

More than half (56%) of New Jersey coastal residents report that their home or business suffered damage from Sandy. Nearly 1-in-10 of these residents report that their property was totaled, i.e. that the loss exceeded half of their home's pre-storm value.

Six-in-ten Jersey Shore residents (61%) report that they have fully recovered from Sandy. This compares to 77% of New Jersey residents statewide who say the same. Ten percent of coastal residents say it will take them about a year to recover fully, 4% say it will take longer, and 3% feel they will never fully recover.

Five percent of coastal residents are not currently in the same home they lived in before Sandy hit. Reports of home displacement are higher in Ocean County (11%) than in Monmouth County (6%) or along the southern shore (3%).

Only 30% of homeowners with damaged properties say that they expect all or most of their losses to be covered by insurance. Another 23% say some amount will be covered while 26% say nothing will be covered. Despite Sandy's devastating impact, most coastal homeowners

(59%) say they would never consider selling their property to the town or county to be turned into open space.

Flood Zone Guidelines

Just over half of New Jersey coastal homeowners (53%) report that they carry a federal flood insurance policy on their property. It is worth noting that a 2007 survey of New Jersey coastal residents found that 69% of homeowners reported carrying flood insurance. The higher coverage prevalence reported in the prior poll may reflect an inaccurate assessment among some homeowners that they were indeed covered for flood damage.

Just over one-third (36%) of coastal residents report that they live in a designated pre-Sandy flood zone while 41% report that they do not. Tellingly, nearly 1-in-4 (23%) coastal residents say they are unsure whether their home is in a flood zone.

Confusion over designated flood zones has only grown with the post-storm release of FEMA's Advisory Base Flood Elevation (ABFE) maps. As of late February 2013, just 22% of coastal homeowners had a very good understanding of how these guidelines would affect them and another 24% say they understand the proposed ABFE maps somewhat well. As a result, 22% of coastal homeowners believe they would be required to elevate their homes if they were to rebuild and 39% are unsure about this.

New Jersey coastal homeowners were asked whether they would consider elevating their house if their property was included in a new flood zone. Just under half say they would definitely (18%) or probably consider (26%) doing this. However, more would consider it if the out-of-pocket costs are low or the savings on annual flood insurance turned out to be significant.

Coastal Protection and Rebuilding Policies

Most New Jersey coastal residents (59%) feel that current efforts to protect their local waters and beaches are about right. Another 30% feel that not enough is being done and just 5% say there is too much emphasis on coastal protection. These results are statistically similar to a pre-Sandy poll conducted in 2009. Two-thirds of residents who had no damage from Sandy (66%) and 6-in-10 of those with some damage (59%) feel current efforts have been about right. However, just 43% of those with significant home damage feel the same, compared to 43% of this group who say there has been too little effort.

A majority of coastal residents (56%) say that government should handle most of the costs for projects to reduce damage from future storms and other coastal hazards. Another 20% say that coastal property owners should be primarily responsible. These results are similar to pre-Sandy polls conducted in 2007 and 2009.

Even though coastal residents feel that government should handle the cost of hazard reduction projects, a majority (55%) say they would support an increase in local taxes to fund these efforts. This finding is also similar to pre-Sandy poll results.

Nearly 9-in-10 coastal residents (89%) are in favor of requiring stricter storm-resistant building codes in areas affected by Sandy and 8-in-10 residents (83%) favor a continual beach replenishment program. Three-in-four residents (76%) specifically say that beaches should be replenished when they are washed away by a storm, which is higher than the 66% who said the same in 2009.

Fully 8-in-10 residents support building bulkheads, jetties, seawalls and other hard structures (82%), as well as sand dunes and other natural features that may block ocean views (80%). However, residents are divided on whether towns should be allowed to require easements from private property owners to accomplish this – 42% say that towns should have this power and 33% say that individual homeowners should be allowed to decide. Support for giving towns the authority to require easements is much higher among Ocean County residents (62%) than it is among those in Monmouth County (35%) or along the southern shore (40%).

Similarly, 79% of coastal residents support using tax dollars to restore existing wetlands and bays to better absorb storm surges and flooding. In general, 72% of New Jersey coastal residents support the public purchase of existing natural coastal areas for conservation purposes.

About 3-in-4 coastal residents (74%) support allowing beachfront homeowners to rebuild only if they agree to have dunes or sea walls placed in front of their property even if it blocks their ocean view. Support is particularly widespread among those who would be impacted the most – waterfront home dwellers (82%).

Seven-in-ten coastal residents (71%) support creating a state commission to coordinate planning and rebuilding along the shore. Nearly 2-in-3 coastal residents (64%) also support giving towns the right to impose a short-term moratorium on rebuilding in high risk areas. And more than 6-in-10 coastal residents (62%) support policies that would prevent any new construction or development in high flood-risk areas.

A majority of coastal residents (55%) support allowing state regulators to determine which areas of the shore can or cannot be rebuilt based on storm risk, while 40% of coastal residents oppose giving state regulators this power.

Fewer than half (47%) of coastal residents support using government funds from the "Blue Acres" program to buy private property in high risk areas. Another 35% oppose this proposal and 18% are unsure. Among coastal residents, waterfront property dwellers (60%) are more supportive of this type of program. In general, only 41% of New Jersey coastal residents support the idea of public purchase of private homes located in high risk areas regardless of the funding source.

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SUPERSTORM SANDY SURVEY: IMPACT ON NEW JERSEY COASTAL RESIDENTS

I. Introduction

Superstorm Sandy was an unprecedented event for the State of New Jersey. The impact was widespread, leaving two-thirds of Garden State homes without power, some for as long as two weeks. No place, collectively, was hit as hard as the Jersey Shore. Sandy's aftermath raised numerous questions about how quickly affected residents would be able to recover as well as the best policies for rebuilding shore communities.

This unique study, conducted by the Monmouth University Polling Institute in conjunction with the New Jersey Shore Partnership Foundation and Monmouth University's Urban Coast Institute, was undertaken to establish the full extent of the impact on New Jersey's coastal residents, their understanding of the rebuilding process, and their opinions on policies to create a more resilient shoreline.

The survey was conducted by telephone with 501 residents of New Jersey communities who live within one mile of the coastline, from the northern shore counties of Monmouth and Ocean to the southern shore of Atlantic and Cape May. The full results of this survey have a sampling margin of error of +/- 4.4% and can be found in the appendix.

II. Storm Preparations

Most New Jersey coastal residents were caught off guard by the strength of Superstorm Sandy. Overall, 62% say it was more serious than expected. Just 18% say it was less serious and 20% say it was about as serious as they anticipated. Residents of the state's northern shore (69%) are a little more likely than those along the southern coast (55%) to report being surprised by the storm's intensity.

About half of New Jersey's coastal residents (49%) expect that a similar storm will occur sometime in the next ten years. Only 26% say Sandy was a once in a lifetime event. However, it is worth noting that those who experienced the most damage to their property (35%) are more likely than those who suffered no damage (24%) to believe that they will never see a storm of this magnitude again.

About four-in-ten coastal residents (41%) report that they will do more to prepare for the next big storm, while a majority (57%) say they will probably do about the same level of preparations as they did for Sandy. Ocean (51%) and Monmouth (46%) coastal residents are more likely than those living along the southern shore (34%) to report that they will do more to prepare for the next storm.

Superstorm Sandy Preparation and Expectations							
	More serious than expected	Less serious than expected	Once in a lifetime storm	Will recur again in next ten years	Evacuated nome before storm	Evacuated home during or after	Will do more to prepare next time
TOTAL	62%	18%	26%	49%	34%	12%	41%
County							
Monmouth	68	10	25	54	20	14	46
Ocean	72	10	26	54	24	14	51
Atlantic/Cape May	55	26	26	45	45	10	34
Distance from Water Waterfront property	77	8	31	47	49	12	35
Within a few blocks	62	17	26	46	42	10	42
Within one mile	55	24	23	56	12	14	42
In a Flood Zone							
Yes	64	20	30	46	39	13	45
No	58	14	26	50	25	9	38
Unsure	65	22	18	53	41	16	38
Damage to Home							
None	59	21	24	51	29	7	37
Some	62	16	30	43	34	9	41
Significant	63	11	35	43	38	19	44
Annual Income							
Under \$50,000	59	22	24	54	40	8	40
\$50-100,000	64	15	19	51	24	14	41
Over \$100,000	60	15	39	44	34	8	39
NEW JERSEY STAT	FWIDF:						
Dec. 2012	62%	10%	18%	59%	n/a	n/a	43%*

^{*} Statewide comparison from Feb. 2013

Nearly half of New Jersey's coastal residents report that they left their homes because of Sandy, including 34% who evacuated before the storm hit, 7% who left while the storm was underway, and 5% who had to leave after the storm had passed. Southern shore residents (45%) are more likely than those along the northern coast (22%) to report they evacuated in advance of the storm. Overall, 61% of waterfront property residents and 52% of those who live within a few

blocks of the water had to leave their home at some point before, during or after the storm, compared to just 26% of those who live farther away.

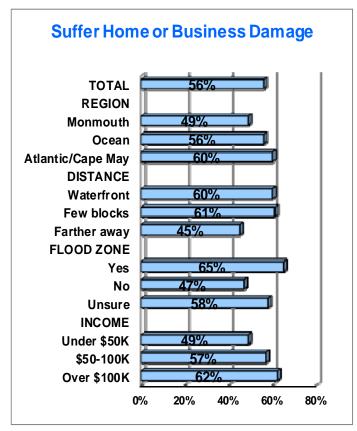
While 34% of coastal residents evacuated before the storm, twice that number (71%) report that they were advised to evacuate, including 54% who say their area was under a mandatory evacuation order. Among residents living in a mandatory evacuation area, barely half (49%) report having left home before the storm, while another 9% left as the storm was underway. Another 2% left after the storm passed and 40% stayed put throughout the storm and its aftermath.

Overall, 47% of coastal residents who live in a Sandy evacuation area say they are more likely to heed future evacuation warnings, while 10% are now less likely to do so. Among those who actually evacuated before the storm, 47% say they would be even more likely to evacuate next time and just 3% say they would be less likely. Among those who stayed in their homes the entire time, 40% say they would now be more likely to evacuate if the order was given in another storm, 18% would be even less likely and 40% say they would be about as likely – presumably meaning they wouldn't heed the evacuation warning next time either.

III. Sandy's Impact

More than half (56%) of New Jersey coastal residents report that their home or business suffered damage from Sandy. This includes nearly two-thirds (65%) of those living in a current flood zone.

Southern shore residents (60%) are somewhat more likely than Ocean (56%) or Monmouth (49%) residents to report suffering at least some damage. However, this is most likely due to the fact that the vast majority are barrier island homes within a few blocks of the waterline. When asked to estimate their total losses incurred, 39% of Ocean County residents with home damage say the loss exceeds \$25,000.



This compares to 26% of southern shore residents and 14% in Monmouth County who suffered similar losses. Overall, 8% of shore residents with damage to their homes report that their property was totaled, i.e. that the loss exceeded half of their home's pre-storm value.

The main cause of damage to coastal property due to Sandy was flooding (71%). A majority (56%) of damaged properties also suffered wind damage, while 29% suffered losses due to power outages, 16% due to falling trees or other debris, and 3% due to fire.

Cause of Damage (among those who suffered property damage)							
Multiple responses possible	Flooding	Wind	Power outage	Falling trees/ debris	Fire		
TOTAL	71%	56%	29%	16%	3%		
County Monmouth Ocean Atlantic/Cape May	45 63 86	64 56 53	44 26 22	25 22 9	3 1 3		
Distance from Water Waterfront property Within a few blocks Within one mile	89 77 48	36 58 65	22 27 37	9 10 35	4 1 5		
In a Flood Zone Yes No Unsure	78 57 80	50 67 54	28 29 31	12 23 13	3 5 0		
Damage to Home None Some Significant	93 54 93	41 65 50	27 30 18	0 19 10	0 4 2		
Annual Income Under \$50,000 \$50-100,000 Over \$100,000	70 77 67	59 58 61	20 29 27	13 12 18	7 2 0		

Six-in-ten Jersey Shore residents (61%) report that they have fully recovered from Sandy. Another 31% have partially recovered, 4% have barely recovered and 4% have not recovered at all. Statewide, more New Jersey residents report having fully recovered (77%) from the storm, but a similar number are no more than barely recovered (9%) when compared just to coastal residents. Waterfront property owners are the least likely to be fully recovered (45%), but no more likely to be only barely recovered (10%). Nearly half of waterfront homeowners (46%) say they are at least partially recovered.

Among coastal residents who suffered significant damage to their homes – defined as at least \$10,000 in losses – only 15% have fully recovered, 60% have partially recovered, and 25% have recovered just barely or not at all. Among residents with damaged homes who carried flood insurance before the storm, the picture isn't much better. Only one-quarter (25%) of this group has fully recovered, 53% have partially recovered, and 22% have recovered just barely or not at all.

Recovery from Stori	m			
	Fully, no impact	Partially	Barely	Not at all
TOTAL	61%	31%	4%	4%
County Monmouth Ocean Atlantic/Cape May	63 55 61	32 30 31	4 6 3	2 9 5
Distance from Water Waterfront property Within a few blocks Within one mile	45 60 70	46 31 24	5 3 4	5 7 1
In a Flood Zone Yes No Unsure	54 69 57	30 28 38	6 2 3	10 1 2
Damage to Home None Some Significant	85 53 15	12 44 60	1 2 11	2 0 14
Annual Income Under \$50,000 \$50-100,000 Over \$100,000	63 54 65	32 34 30	2 9 2	3 4 3
NEW JERSEY STATEM Feb. 2013	/IDE: 77%	14%	4%	5%

In addition to the 61% of New Jersey coastal residents who have fully recovered, 21% expect that they will be back to normal in the next few months. Another 10% say it will take about a year to recover, 4% say it will take longer, and 3% feel they will never fully recover. Also, 5% of coastal residents report that they are not currently in the same home they lived in before Sandy hit. Reports of home displacement are higher in Ocean County (11%) than in Monmouth County (6%) or along the southern shore (3%).

Despite Sandy's devastating impact, most coastal homeowners (59%) say they would never consider selling their property to the town or county to be turned into open space. Just 16% say they would definitely consider doing so and 15% would probably consider this. There is little difference in this sentiment regardless of whether or not homeowners suffered property losses or the extent of those losses.

IV. Flood Zone Guidelines

Only 30% of homeowners with damaged properties say that they expect all or most of their losses to be covered by insurance. Another 23% say some amount will be covered while 26% say none will be covered. Another 5% report having no insurance and 17% don't know how much will be covered. Among those who suffered losses of at least \$10,000, 43% expect all or most of their losses will be covered. This compares to just 21% of those who suffered less severe damage who expect insurance to cover most of the loss.

Just over half of New Jersey coastal homeowners (53%) report that they carry a federal flood insurance policy on their property. It is worth noting that a 2007 survey of New Jersey coastal residents found that 69% of homeowners reported carrying flood insurance. The higher coverage prevalence reported in the prior poll may reflect an inaccurate assessment among some homeowners that they were indeed covered for flood damage. Reports of current flood insurance coverage includes 75% of waterfront homeowners and 67% of those who live within a few blocks of the water, but just 19% of those who live farther away.

Just over one-third (36%) of coastal residents report that they live in a designated pre-Sandy flood zone while 41% report that they do not. Tellingly, nearly 1-in-4 (23%) coastal residents say they are unsure whether their home is in a flood zone. This lack of awareness is similar among homeowners (20%) and renters (29%) as well as among those who live at different distances from the shoreline; including on the waterfront (20%), within a few blocks of the water (24%), and farther away (21%).

Confusion over designated flood zones has only grown with the post-storm release of FEMA's Advisory Base Flood Elevation (ABFE) maps. These guidelines are still under review, but as of late February 2013, 29% of coastal residents had heard a lot about them, 41% had heard a little, and 30% had heard nothing at all.

Heard of FEMA Advisory Base Flood Elevations							
	A lot	A little	Not at all				
TOTAL	29%	41%	30%				
County Monmouth Ocean Atlantic/Cape May	22 36 31	45 41 38	32 23 31				
Distance from Water Waterfront property Within a few blocks Within one mile	41 28 25	45 42 38	13 30 37				
In a Flood Zone Yes No Unsure	29 33 20	38 39 50	33 27 30				
Damage to Home None Some Significant	26 31 42	44 31 44	30 38 13				
Annual Income Under \$50,000 \$50-100,000 Over \$100,000	14 38 37	46 34 37	40 27 27				

Just 22% of coastal homeowners say they have a very good understanding of how these guidelines would affect their own properties and another 24% say they understand the proposed ABFE maps somewhat well. As a result, 22% of coastal homeowners believe they would be required to elevate their homes if they were to rebuild while 39% feel they would not be impacted by the new guidelines. The remaining homeowners are either unsure whether they would need to elevate (13%) or are unaware of the guidelines (26%).

The new guidelines define expanded flood zones as well as the height homes must be built in those zones to qualify for flood insurance. Based on this description or what they may have already heard, 46% of coastal residents say the guidelines are about right, 27% say they are too strict, and 4% say they are not strict enough. Among those who have heard a lot about the proposed ABFE, though, 47% say they are about right and a similar 46% say they are too strict. Waterfront property owners overall are also split between seeing the guidelines as appropriate (41%) or too strict (40%). Among residents who suffered significant damage to their homes, more (44%) say the guidelines are too strict than say they are about right (27%).

Opinion of FEMA Flood Elevation Guidelines								
	About right	Too strict	Not strict enough	Don't know				
TOTAL	46%	27%	4%	23%				
County Monmouth Ocean Atlantic/Cape May	54 54 38	17 27 34	5 3 3	24 16 25				
Distance from Water Waterfront property Within a few blocks Within one mile	41 46 46	40 28 20	1 3 7	19 22 27				
In a Flood Zone Yes No Unsure	43 47 48	31 28 20	5 3 3	21 22 30				
Damage to Home None Some Significant	57 40 27	19 32 44	2 3 1	22 25 27				
Annual Income Under \$50,000 \$50-100,000 Over \$100,000	51 42 44	17 32 36	5 2 2	26 24 19				

New Jersey coastal homeowners were asked whether they would consider elevating their house if their property was included in a stricter flood zone. Just under half say they would definitely (18%) or probably consider (26%) doing this. Waterfront property owners (23%) are the least likely to consider elevating their property if the flood zone map changed, compared to those who live within a few blocks of the shoreline (45%) or farther away (51%).

The survey also asked coastal property owners whether they would consider elevating their homes in light of both potential construction costs and insurance savings. Ten percent would consider elevating their homes if their out-of-pocket cost was \$50,000, 21% would consider doing so if the cost was about \$25,000, and 21% would only consider this at a lower cost. However, nearly half (45%) would consider elevating their home if they could save \$3,000 a year on flood insurance coverage and another 22% would consider doing so if they saved about \$25,000 a year.

V. Coastal Protection and Rebuilding Policies

Most New Jersey coastal residents (59%) feel that current efforts to protect their local coastal waters and beaches are about right. Another 30% feel that not enough is being done and just 5% say there is too much emphasis on coastal protection. These results are slightly more positive than in 2009, when 53% said the right amount was being done to protect the local coast, 36% said too little was being done, and 9% said too much was being done. However, these differences are not statistically significant.

Majorities of southern shore (64%) and Monmouth County (56%) residents feel that coastal protection efforts are about right, but Ocean County residents are split – 46% feel current efforts are about right and 42% say they are not enough. Having suffered property damage from Sandy colors residents' views on the state of local coastal protection. Two-thirds of residents who had no damage (66%) and 6-in-10 of those with some damage (59%) feel current efforts have been about right. However, just 43% of those with significant home damage feel the same, compared to 43% of this group who say there has been too little effort.

Rate Efforts to Pro	Rate Efforts to Protect Coast								
	About right	Too little	Too much	Don't know					
TOTAL	59%	30%	5%	6%					
County Monmouth Ocean Atlantic/Cape May	56 46 64	31 42 25	3 4 6	9 7 5					
<u>Distance from Water</u> Waterfront property Within a few blocks Within one mile	52 61 57	36 26 34	6 6 3	7 6 7					
In a Flood Zone Yes No Unsure	59 60 57	30 32 25	7 3 5	3 5 14					
Damage to Home None Some Significant	66 59 43	24 32 43	5 4 4	5 5 10					
Annual Income Under \$50,000 \$50-100,000 Over \$100,000	66 59 50	22 28 41	3 4 7	9 9 2					
COASTAL TRENDS: 2009	53%	36%	9%	2%					

When it comes to the question of paying for projects that would reduce damage from storms and other coastal hazards, a majority (56%) of coastal residents say that government should handle most of the costs. Another 20% say that coastal property owners should be primarily responsible and 20% volunteer that both government and property owners should share equally in the costs. The number of New Jersey coastal residents who say that government should be primarily responsible for funding these projects is up slightly, albeit not significantly, from polls conducted prior to Sandy in 2009 (49%) and 2007 (50%).

Who Should Pay fo	or Coastal Haza	rd Reduction		
	Government	Property owners	Both equally	Don't know
TOTAL	56%	20%	21%	3%
County Monmouth Ocean Atlantic/Cape May	49 52 62	28 17 16	19 28 20	4 4 3
Distance from Water Waterfront property Within a few blocks Within one mile	63 54 56	15 20 22	16 23 20	5 4 2
In a Flood Zone Yes No Unsure	64 46 60	19 23 15	16 24 25	1 7 0
Damage to Home None Some Significant	54 57 55	22 16 18	22 23 18	2 4 9
Annual Income Under \$50,000 \$50-100,000 Over \$100,000	51 57 56	19 19 23	28 19 16	2 5 4
COASTAL TRENDS: 2009 2007	49% 50%	31% 23%	12% 22%	8% 5%

Even though coastal residents feel that government should handle the cost of hazard reduction projects, a majority (55%) say they would support an increase in local taxes to fund these efforts. Another 35% would oppose such tax increases. Support levels are fairly similar across all demographic groups in the survey, although it is worth noting that the number who "strongly" support a tax increase to fund storm protection measures (29%) is similar to the

number who "strongly" oppose (23%). Interestingly, the current survey results are very similar to findings from a pre-Sandy poll of New Jersey coastal residents in 2009 when 59% supported an increase in local taxes to fund coastal protection efforts.

Coastal Protection	Coastal Protection Preferences								
Percent who support	Protection efforts even if local taxes go up	Bulkheads, seawalls and hard structures	Dunes w/ocean views restricted	Replenish beaches after storms	Conserve natural coastal areas	No devel- opment in high risk areas	Public purchase of private homes		
TOTAL	55%	82%	80%	76%	72%	62%	41%		
County Monmouth Ocean Atlantic/Cape May	60 55 53	81 81 83	76 93 79	72 74 79	76 77 68	73 61 56	43 45 38		
Distance from Water Waterfront property Within a few blocks Within one mile	58 58 52	88 81 81	79 78 86	73 77 76	69 74 71	59 64 62	32 42 42		
<u>In a Flood Zone</u> Yes No Unsure	55 58 51	86 79 79	83 80 76	79 74 75	76 66 76	62 61 65	41 39 42		
<u>Damage to Home</u> None Some Significant	52 62 54	79 81 82	82 85 74	75 81 68	73 70 70	60 76 55	42 45 38		
Annual Income Under \$50,000 \$50-100,000 Over \$100,000	56 50 64	83 78 80	80 83 85	80 73 79	68 67 83	55 62 70	38 38 52		
COASTAL TRENDS: 2009	59%	69%	72%*	66%	77%	61%	27%		

^{*} This trend is from 2007.

The survey also asked about support for specific policies to protect the coast. Fully 8-in-10 residents support building bulkheads, jetties, seawalls and other hard structures (82%), as well as sand dunes and other natural features that may block ocean views (80%). This is not too different from the 90% who support dunes and natural buffers that don't restrict ocean views. The survey found "strong" levels of support from a majority of residents for both hard structures (53%) and natural buffers that restrict views (57%).

While most residents support the idea of building natural buffers that restrict ocean views, they are more divided on whether towns should be allowed to require easements from private

property owners to accomplish this. Overall, 42% say that towns should have this power, 33% say that individual homeowners should be allowed to decide whether they agree to this, and 9% are unsure. The remaining 16% are opposed to building view-restricting dunes at all. Support for giving towns the authority to require easements is much higher among Ocean County residents (62%) than it is among those in Monmouth County (35%) or along the southern shore (40%).

Easements for View Restricting Sand Dunes								
	Towns should be able to require	Homeowners should be allowed to decide	Depends, Don't know	Oppose view restricting dunes				
TOTAL	42%	33%	9%	16%				
County								
Monmouth	35	38	5	22				
Ocean	62	24	9	5				
Atlantic/Cape May	40	33	12	16				
Distance from Water								
Waterfront property	48	29	3	20				
Within a few blocks	39	34	10	17				
Within one mile	46	32	11	12				
In a Flood Zone								
Yes	41	39	3	17				
No	43	29	13	14				
Unsure	42	28	13	17				
Damage to Home								
None	41	34	9	17				
Some	46	33	12	8				
Significant	48	24	11	18				
Annual Income								
Under \$50,000	40	37	6	16				
\$50-100,000	45	28	18	10				
Over \$100,000	50	30	6	14				

The survey also found that 76% of residents feel beaches should be replenished when they are washed away by a storm, compared to just 18% who say they should be left as is. Support for this policy is higher than four years ago, when 66% said post-storm beach replenishment should be a general policy. There are no demographic differences in opinion on the beach replenishment question in the current survey.

The survey also found widespread support for the public purchase of existing natural coastal areas in order to preserve them – 72% of New Jersey coastal residents would support such a policy, including 46% who strongly support it. There are few significant demographic

differences in these support levels, with the exception that upper income residents are the most supportive (83%) of any group.

More than 6-in-10 coastal residents (62%) support policies that would prevent any new construction or development in high flood-risk areas, including 41% who strongly support this idea. Support for this restriction is highest among Monmouth County residents (73%) and lowest among southern shore residents (56%). Support from Ocean County residents (61%) falls in between these two.

One policy idea that does not attain majority support is the public purchase of private homes located in high risk areas. Only 41% of New Jersey coastal residents support this idea, including 19% who strongly support it. More residents (50%) actually oppose this potential policy, including 34% who strongly oppose it. Waterfront residents (32%) are even less likely than other coastal residents (42%) to support the private purchase of homes in high risk areas. However, those earning more than \$100,000 a year (52%) tend to support this idea when compared to residents with lower annual income levels (38%).

The survey also asked coastal residents their opinions on eight possible Sandy-related proposals and regulations that were included on a statewide poll of New Jersey residents in December 2012. Coastal resident support levels for most of these proposals tend to be about the same or slightly higher than in the statewide poll.

Nearly 9-in-10 coastal residents (89%) are in favor of requiring stricter storm-resistant building codes in areas affected by Sandy, including 67% who strongly support this proposal. Statewide, 87% of New Jerseyans support stricter building codes in affected areas.

About 8-in-10 residents (83%) also favor a continual beach replenishment program, including 57% who strongly support this. Statewide, 74% of New Jerseyans support regular beach replenishment.

Similarly, 79% of coastal residents support using tax dollars to restore existing wetlands and bays to better absorb storm surges and flooding, including 48% who strongly support this. Statewide, 80% of New Jerseyans favor this proposal.

About 3-in-4 coastal residents (74%) support allowing beachfront homeowners to rebuild only if they agree to have dunes or sea walls placed in front of their property even if the ocean view is blocked. This includes 53% who strongly support this requirement. Coastal residents' support for this proposal is actually slightly higher than the statewide support level of 68%.

Support is particularly widespread among those who would be impacted the most – waterfront home dwellers (82%). Regionally, coastal residents in Ocean County (85%) are even more supportive of this requirement than those in Monmouth County (69%) or the southern shore (73%).

Opinion on State R	Opinion on State Rebuilding Policies							
Percent who support	Stricter codes in affected areas	Continue beach replen- ishment	Restore wetlands storm buffers	Home rebuild only with dunes	Create state coastal comm- ission	Towns can impose mora-torium	State regulators determine rebuild areas	Purchase high risk private property
TOTAL	89%	83%	79%	74%	71%	64%	55%	47%
County Monmouth Ocean Atlantic/Cape May	91 93 87	77 84 86	81 82 74	69 85 73	67 74 72	63 72 61	57 59 53	46 58 44
<u>Distance from Water</u> Waterfront property Within a few blocks Within one mile	87 88 91	80 86 79	74 79 78	82 71 75	68 67 78	50 65 66	52 51 63	60 45 44
In a Flood Zone Yes No Unsure	93 88 86	83 82 85	85 72 77	73 77 68	75 67 69	62 66 59	54 56 53	49 43 48
Damage to Home None Some Significant	92 84 84	79 90 82	76 80 74	71 76 73	74 75 52	64 69 52	59 50 38	48 49 49
Annual Income Under \$50,000 \$50-100,000 Over \$100,000	87 86 91	82 83 82	71 77 89	72 74 74	75 66 67	61 63 68	58 54 48	39 50 59
NEW JERSEY STATE Dec. 2012	WIDE: 87%	74%	80%	68%	72%	69%	66%	43%

Seven-in-ten coastal residents (71%) support creating a state coastal commission to coordinate planning and rebuilding along the shore, including 42% who strongly support this idea. Statewide support for establishing such a commission is nearly identical at 72%. Nearly 2-in-3 coastal residents (64%) also support giving towns the right to impose a short-term moratorium on rebuilding in high risk areas, including 33% who strongly support this. Statewide support for this proposal stands at 69%.

A majority of coastal residents (55%) support allowing state regulators to determine which areas of the coast can or cannot be rebuilt based on storm risk, including 27% who strongly support this. However, 40% of coastal residents oppose giving state regulators this power. Statewide support for this proposal (66%) is higher than coastal support.

It is worth noting that homeowners who suffered significant damage to their property (52%) are less likely than those who suffered only some (75%) or no damage (74%) to support the creation of a state coastal commission to coordinate rebuilding. They are similarly less likely to support allowing towns to impose building moratoriums – 52% with significant damage support this compared to 69% with some damage and 64% with no damage. This difference in opinion holds for allowing state regulators to determine rebuilding areas – there is 38% support among those with significant property damage compared to 50% with some damage and 59% with no damage.

Finally, fewer than half (47%) of coastal residents support using government funds from the "Blue Acres" program to buy private property in high risk areas, including 25% who strongly support this. Another 35% oppose this proposal and 18% are unsure. Statewide, a similar 43% of New Jersey residents support this type of property purchase program, 37% are opposed and 20% are unsure. Among coastal residents, waterfront dwellers (60%) are much more supportive of this type of program than are those who live within a few blocks of the shoreline (45%) or farther away (44%).

APPENDIX:

SURVEY METHODOLOGY

The questionnaire for this survey was drafted by the Monmouth University Polling Institute (MUPI) research staff in consultation with issues and concerns raised by stakeholders in other research efforts. A unique aspect of this study is that the Polling Institute, in conjunction with Monmouth University's Urban Coast Institute, has conducted prior surveys of coastal residents that served as benchmarks for many of the questions in this survey.

The questionnaire was programmed into a CATI (Computer Assisted Telephone Interviewing) system and the interviews were conducted by telephone February 21-28, 2013 by experienced professional interviewers at Braun Research, Inc.

A random probability sample was used to select New Jersey coastal community heads of household to participate in this study. The sample was selected based on telephone exchanges that serve these coastal communities using census tract information, as well as from cell phone lists with billing addresses in the relevant zip codes. Residents living within one mile of the coastline were included in the survey sample. Thus, the final survey results represent the views of "permanent" residents of these communities, including some people who split their time fairly evenly between residences in these communities and elsewhere. The sample does not include people who maintain second or rental homes in these shore communities but primarily live elsewhere.

The sample was divided into three coastal regions defined by county: Monmouth, Ocean and Atlantic/Cape May. In order to statistically compare responses among regions, a unique sample was drawn for each region: 176 coastal residents from Monmouth County, 175 from Ocean County, and 150 from Atlantic/Cape May. Each working phone number was called a minimum of five times, at different times of the week, in an effort to reach people who were infrequently at home.

While those interviewed in a survey ideally will have the same characteristics as the population they represent, samples frequently may under-represent groups that are more difficult to interview, such as the elderly or those with less than a high school education. To correct this imbalance, a statistical technique known as "weighting" is used. The weighting procedure for

this survey compared population figures for age and education based on census data with those of the sample and weighted the sample to more accurately reflect the population. For example, if census figures show 39 percent of residents 18 years and older have a high school education, and the sample consists of 32 percent with a high school education, each respondent in this category would be counted as 1.22 persons to adjust for this difference.

Since the survey sample was drawn disproportionately from each region, the results were also adjusted to re-weight the regions to better represent their proportional share of the New Jersey coastal community population (as defined by this survey).

The percentages obtained in a sample survey are estimates of what the distribution of responses would be if the entire population had been surveyed. "Sampling error" is a statistical term which describes the probable difference between interviewing everyone in a given population and a sample drawn from that population. For example, the sampling error associated with a sample of this size is ± 4.4 percent at a 95 percent confidence interval. Thus, if 47 percent in the total sample of 501 are found to agree with a particular statement, the percentage of agreement within the population from which the sample was drawn would be between 42.6 and 51.4 percent $(47 \pm 4.4\%)$ 95 times out of 100.

Sampling error increases as the sample size is reduced. For, example, if statements are made based on a sub-group of 150 (as with the county samples), the sampling error is ± 8.0 percent. For percentages based on the smallest geographic areas (n=100), the sampling error is ± 9.8 percent. This factor must be kept in mind when comparing the responses of different groups within the total sample. Readers should note that sampling error does not take into account other possible sources of error inherent in any study of public opinion.

The table on the following page shows the relationship between sample size and sampling error for key demographic groups in the report.

Key demographic categories and associated margins of error

Demographic group	Proportion of weighted sample	Unweighted, unadjusted sample size	Maximum margin of error	
Total sample	100%	501	+/- 4.4%	
County Monmouth Ocean Atlantic/Cape May Distance from Water Waterfront property Within a few blocks Within one mile In a Flood Zone	32%	176	+/- 7.4%	
	17%	175	+/- 7.4%	
	51%	150	+/- 8.0%	
	15%	86	+/- 10.6%	
	54%	236	+/- 6.4%	
	31%	179	+/- 7.3%	
Yes	36%	170	+/- 7.5%	
No	41%	240	+/- 6.3%	
Unsure	23%	90	+/- 10.3%	
Damage to Home None Moderate Severe	53%	245	+/- 6.3%	
	27%	117	+/- 9.1%	
	21%	106	+/- 9.5%	
Annual Income Under \$50,000 \$50-100,000 Over \$100,000	41%	143	+/- 8.2%	
	28%	134	+/- 8.5%	
	30%	162	+/- 7.7%	
COMPARISON SURVEYS 2009 coastal residents 2007 coastal residents New Jersey statewide	n/a	248	+/- 6.2%	
	n/a	299	+/- 5.7%	
	n/a	816	+/- 3.4%	

About the Polling Institute:

The **Polling Institute** at Monmouth University is a full service research center that conducts surveys and focus group research for federal, state, and local agencies, as well as other organizations that cover social, political, and related issues of public policy. This is in addition to our mission of conducting public interest polls to track opinion on vital issues of the day.

The Monmouth University Polling Institute was established to be a leading center for the study of public opinion on important state, regional, and national issues. In its inaugural year, the institute was cited as a "Winner" by New Jersey Politifax for the accuracy of its polling in the 2005 gubernatorial election. In 2010 the institute was named New Jersey's Pollster of the Year by *PolickerNJ.com*. The Polling Institute conducts and disseminates public opinion research to foster greater public accountability by ensuring that the voice of the public is part of the policy discourse. The Polling Institute strives to go beyond the headlines to cover quality of life issues that affect residents in their daily lives.

The Polling Institute's activities include research services for government agencies and private organizations that assist with policy planning and assessment. The institute also collaborates with faculty and students to enhance research and training opportunities in survey research. The Polling Institute's research capabilities include: large and small-scale survey projects; telephone, mail, and in-person interview designs; quantitative data analysis; and qualitative research techniques such as focus group facilitation and analysis.

SURVEY INSTRUMENT

New Jersey Coastal Communities Sandy Impact Survey

Monmouth University Polling Institute

on behalf of:

Jersey Shore Partnership Foundation
Urban Coast Institute, Monmouth University

February 21-28, 2013 (*n*=501, *m*.o.e.=<u>+</u>4.4)

A. LIVING ON THE COAST

A1. Do you own or rent the apartment or house where you lived when Superstorm Sandy hit? [IF "Rent", ASK: Was this rented as your permanent home?]

70% Own 30 Rent – permanent home

- A2. Is this home a waterfront property right on the beach or bay, within a few blocks of the beach or bay, within one mile?
 - 15% Front a beach or bay
 Within a few blocks
 - 31 Within one mile
- A3. How much of the year do you live in this home 10 to 12 months, 6 to 9 months, or less than 6 months?
 - 96% 10 to 12 months
 - 2 6 to 9 months
 - 2 Less than 6 months
- A4. How many years have you lived in this town, or have you lived here all your life?
 - 12% 5 years or less
 - 15 6 to 10 years
 - 23 11 to 20 years
 - 31 More than 20 years
 - 18 All my life

B. COASTAL POLICY

- B1. Do you think current efforts to protect coastal waters and beaches in your local area are too much, too little, or about right?
 - 5% Too much
 - 30 Too little
 - 59 About right
 - 6 (VOL) Don't know/Refused
- B2. Would you support or oppose efforts to protect the coastal waters, shoreline, and beaches in your town if it meant you would have to pay more in local taxes? [PROBE: Is that strongly or somewhat (support/oppose)?]
 - 29% Strongly support
 - 26 Somewhat support
 - 12 Somewhat oppose
 - 23 Strongly oppose
 - 5 (VOL) Depends
 - 5 (VOL) Don't know/Refused
- B3. In general, when beaches are washed away from a storm, should they be replenished with new sand or should they be left as is?
 - 76% Replenished
 - 18 Left as is
 - 5 (VOL) Depends
 - 2 (VOL) Don't know/Refused
- B4. I'm going to read you some possible ways to preserve coastal habitats and reduce storm damage. Please tell me whether you would support or oppose these efforts in your local area. [ITEMS WERE ROTATED] Would you strongly support, somewhat support, somewhat oppose, or strongly oppose doing this in your local area?
 - A. Building bulkheads, jetties, seawalls and other hard structures?
 - 53% Strongly support
 - 29 Somewhat support
 - 5 Somewhat oppose
 - 7 Strongly oppose
 - 4 (VOL) Depends
 - 1 (VOL) Don't know/Refused

- B. Building sand dunes and other natural buffers? 71% Strongly support 19 Somewhat support 3 Somewhat oppose 5 Strongly oppose 1 (VOL) Depends 2 (VOL) Don't know/Refused C. Public purchase of existing natural coastal areas for preservation? 46% Strongly support 26 Somewhat support 8 Somewhat oppose 13 Strongly oppose (VOL) Depends 5 2 (VOL) Don't know/Refused D. Public purchase of private homes located in high risk areas? 19% Strongly support 22 Somewhat support 16 Somewhat oppose 34 Strongly oppose (VOL) Depends 3 (VOL) Don't know/Refused 6 Ε. Preventing any new construction or development in high flood risk areas? Strongly support 41% 21 Somewhat support Somewhat oppose 14 17 Strongly oppose
- B5. Would you support or oppose building sand dunes and other natural features to protect your town's beaches, property, and people if it meant ocean views would be restricted? [PROBE: Is that strongly or somewhat (support/oppose)?]
 - 57% Strongly support

4

- 23 Somewhat support
- 10 Somewhat oppose
- 6 Strongly oppose
- 2 (VOL) Depends
- 2 (VOL) Don't know/Refused

(VOL) Depends

(VOL) Don't know/Refused

- B6. If some of these dunes need to be placed on privately owned waterfront property, should towns be able to require easements from those homeowners or should the individual homeowners be allowed to decide whether they will agree to this?
 - 42% Towns should be able to require easements
 - 33 Individual homeowners should be allowed to decide
 - 3 (VOL) Depends
 - 6 (VOL) Don't know/Refused
 - 16 Oppose dunes that block views (from Question B5)
- B7. Who should pay for most of the cost for projects designed to reduce damage from storms and other coastal hazards [ITEMS WERE ROTATED] government OR coastal property owners?
 - 56% Government
 - 20 Coastal property owners
 - 21 (VOL) Both equally
 - 3 (VOL) Don't know/Refused
- B8. Do you strongly support, somewhat support, somewhat oppose, or strongly oppose the following proposals: [ITEMS WERE ROTATED]
 - A. Allowing beachfront homeowners to rebuild only if they agree to have dunes or sea walls placed in front of their property, even if it blocks their view of the ocean?
 - 53% Strongly support
 - 21 Somewhat support
 - 10 Somewhat oppose
 - 11 Strongly oppose
 - 3 (VOL) Depends
 - 2 (VOL) Don't know/Refused
 - B. Allowing state regulators to determine which areas along the coast can or cannot be re-built based on storm risk?
 - 27% Strongly support
 - 28 Somewhat support
 - 15 Somewhat oppose
 - 25 Strongly oppose
 - 4 (VOL) Depends
 - 1 (VOL) Don't know/Refused

C.	Using government funds from the "Blue Acres" program to buy private property in high risk areas of the shore?	
	25% 22 16 19 4 14	Strongly support Somewhat support Somewhat oppose Strongly oppose (VOL) Depends (VOL) Don't know/Refused
D.	Continuing to replenish the coast line with sand every few years?	
	57% 26 7 8 1	Strongly support Somewhat support Somewhat oppose Strongly oppose (VOL) Depends (VOL) Don't know/Refused
E.	Creating a state coastal commission to coordinate planning and rebuilding along the shore?	
	42% 29 10 17 1	!!
F.	Giving towns the right to impose a short term moratorium on rebuilding in high risk areas?	
	33% 31 12 15 3 5	Strongly support Somewhat support Somewhat oppose Strongly oppose (VOL) Depends (VOL) Don't know/Refused
G.	Requiring stricter storm-resistant building codes in areas affected by the storm?	
	67% 22 6 3 1	Strongly support Somewhat support Somewhat oppose Strongly oppose (VOL) Depends (VOL) Don't know/Refused

- H. Using tax dollars to restore existing wetlands and bays to better absorb storm surges and flooding?
 - 48% Strongly support
 - 31 Somewhat support
 - 6 Somewhat oppose
 - 12 Strongly oppose
 - 2 (VOL) Depends
 - 3 (VOL) Don't know/Refused

C. STORM PREPARATION

- C1. Was Superstorm Sandy as serious as you expected it to be, more serious or less serious?
 - 20% As serious as expected
 - 62 More serious
 - 18 Less serious
 - 0 (VOL) Don't know/Refused
- C2. Do you think that this was a once in a lifetime storm or do you think that this type of storm is likely to happen again in the near future?
 - 26% Once in a lifetime
 - 69 Will occur in near future
 - 5 (VOL) Don't know/Refused
- C2A. Do you think it will happen in the next year, the next five years, the next ten years, the next 25 years, or longer than that?
 - 5% Next year
 - 25 Next five years
 - 19 Next ten years
 - 15 Next 25 years
 - 4 Longer than that
 - 26 Once in a lifetime (from Question C2)
 - 7 (VOL) Don't know/Refused
- C3. Thinking about your own preparations for Sandy, the next time a big storm is predicted to hit New Jersey, will you do more to prepare, less to prepare, or about the same as you did to prepare for this storm?
 - 41% More
 - 2 Less
 - 57 About the same
 - 1 (VOL) Don't know/Refused

C4. Did you ever evacuate or leave your home because of Sandy, or not?

46% Yes 54 No

- C4A. When did you leave your home before the storm arrived, while the storm was actually underway, or after the storm had passed?
 - 34% Before the storm arrived
 - 7 While the storm was actually underway
 - 5 After the storm had passed
 - 54 Never evacuated (from Question C4)
- C5. Before the storm, were you in an area where people were ordered or advised to evacuate, or not?

71% Yes 27 No

2 (VOL) Don't know/Refused

C5A. Was that a mandatory order or just an advisory?

54% Mandatory

- 14 Advisory
- 4 (VOL) Don't know type of order
- 27 No order given (from Question C5)
- 2 Don't know if order was given (from Question C5)

[NOTE: Question C5B was asked of those ordered or advised to evacuate in C5; n=316, m.o.e=± 5.5]

C5B. Will you be more likely, less likely, or about as likely to heed evacuation orders and advisories in future storms?

47% More likely

10 Less likely

41 About as likely

3 (VOL) Don't know/Refused

D. STORM IMPACT

D1. Would you say your family has fully recovered from the storm, partially recovered, barely recovered, or not recovered at all?

57% Fully recovered

- 31 Partially recovered
 - 4 Barely recovered
 - 4 Not at all recovered
- 4 (VOL) No impact, nothing to recover from

- D2. How long do you think it will take you to fully recover – within the next few weeks, within the next few months, within the next year, about 2 or 3 years, more than 3 years, or do you feel you will never fully recover? Already recovered/Nothing to recover from (from Question D1) 3 Next few weeks
 - 18 Next few months

 - 10 Next year
 - 2 or 3 years 4
 - More than 3 years 0
 - 3 Never fully recover
 - 2 (VOL) Don't know/Refused
- D3. Are you currently living in the same place you lived before Sandy hit?
 - 95% Yes 5 No

[NOTE: Question D3A was asked of those who said they are not living in the same place in D3; n=31, m.o.e=+ 17.6

- D3A. When do you expect to be able to get back into your home within the next six months, within a year, longer than that, or never?
 - Within the next six months 60%
 - 10 Within a year
 - Longer than that 1
 - 29 Never
- D4. Did you have a federal flood insurance policy on your home or contents last year, or not?
 - 40% Yes
 - 56 No
 - (VOL) Don't know/Refused 4
- D4A. Was that on your home's structure or contents, or both?
 - 13% Structure only
 - 2 Contents only
 - Both structure and contents 24
 - 2 (VOL) Don't know what is covered
 - 56 No flood insurance (from Question D4)
 - (VOL) Don't know/Refused

- D5. Did your home or business suffer damage because of the storm?
 - 56% Yes
 - 44 No
 - 0 (VOL) Don't know/Refused

[NOTE: Questions D6 and D7 were asked of those who said their home or business suffered damage in D5; n=268, m.o.e=± 6.0]

- D6. Was the damage to your primary home, secondary home, business, or other income property? [Note: Results add to more than 100% because multiple responses were accepted]
 - 91% Primary home
 - 4 Secondary home
 - 15 Business
 - 1 Other income property
- D7. Was this damage caused by flood waters, wind, falling trees, fire, or power outages? [Note: Results add to more than 100% because multiple responses were accepted]
 - 71% Flood waters
 - 56 Wind
 - 16 Falling trees
 - 3 Fire
 - 29 Power outages
 - <1 (VOL) Rain

[NOTE: Questions D8 through D10 were asked of those who said their primary or secondary home suffered damage in D6; n=256, $m.o.e=\pm 6.1$]

- D8. What is your estimated total cost in damages and losses incurred on YOUR HOME as a result of the storm? Please do not include damage to any other property in this estimate.
 - 21% \$2,500 or less
 - 25 \$2,501 \$10,000
 - 11 \$10,001 \$25,000
 - 19 \$25,001-\$100,000
 - 5 Over \$100,000
 - 19 (VOL) Don't know

- D9. And is that more than half or less than half of your home's total value before the storm?
 - 8% More than half
 - 83 Less than half
 - 1 (VOL) Exactly half
 - 8 (VOL) Don't know/Refused
- D10. How much of the financial damages or loss to your home will your insurance cover all or nearly all, most, some, just a little, or none at all?
 - 17% All or nearly all
 - 13 Most
 - 16 Some
 - 7 A little
 - None at all
 - 5 (VOL) Don't have insurance
 - 17 (VOL) Don't know/Refused

[NOTE: Question D11 was asked of homeowners that said their primary or secondary home suffered damage in D6; n=214, m.o.e=± 6.7]

- D11. What are you most likely to do with this home repair it, tear it down and rebuild on this property, rebuild somewhere else, leave it as is, or sell it?
 - 79% Repair it
 - 2 Tear down and rebuild on this property
 - 0 Rebuild somewhere else
 - 10 Leave as is
 - 4 Sell
 - 5 (VOL) Don't know/Refused

[ASK EVERYONE:]

- D12. Was your home in a designated flood zone before the storm or not, or aren't you sure?
 - 36% In a flood zone
 - 41 Not in a flood zone
 - 23 Not sure
 - 0 (VOL) Refused

- D13. How much have you read or heard about the new FEMA Advisory Base Flood Elevations adopted by the state last month a lot, a little, or nothing at all?
 - 29% A lot
 - 41 A little
 - Nothing at all
 - 0 (VOL) Don't know/Refused
- D14. How well do you understand how these new guidelines affect your property very well, somewhat well, not too well, or not at all well?
 - 18% Very well
 - 23 Somewhat well
 - 14 Not too well
 - 11 Not at all well
 - 3 (VOL) Don't know/Refused
 - 30 Not aware of ABFE (from Question D13)
- D15. As far as you know, would the new flood maps require you to build your house higher than it is now if you had to rebuild, or not?
 - 21% Require to rebuild higher
 - Not require to rebuild higher
 - 15 (VOL) Don't know/Refused
 - 30 Not aware of ABFE (from Question D13)
- D16. The new guidelines define expanded flood zones and also how high homes must be built in those zones in order to qualify for flood insurance. Based on what you may have heard so far, are these new guidelines too strict, not strict enough, or about right?
 - 27% Too strict
 - 4 Not strict enough
 - 46 About right
 - 23 (VOL) Don't know/Refused

[NOTE: Question D17 was asked of all homeowners; n=410, m.o.e=+ 4.8]

- D17. If it turns out you are in one of these expanded flood zones, would you definitely consider, probably consider, or not consider elevating your home in order to meet these new standards?
 - 18% Definitely consider
 - 26 Probably consider
 - 40 Not consider
 - 3 (VOL) Depends
 - 10 (VOL) Not applicable, known not in a flood zone
 - 3 (VOL) Don't know/Refused

[NOTE: Questions D18 and D19 were asked of homeowners in flood zones; n=365, m.o.e=± 5.1]

- D18. Would you consider it if your out of pocket cost was \$25,000? How about if it cost you \$50,000? How about \$100,000?
 - 5% Yes, even if \$100,000
 - 5 Yes if \$50,000, but not \$100,000
 - 21 Yes, if \$25,000, but not \$50,000
 - 21 Yes, for lower cost
 - 44 No, not consider
 - 4 (VOL) Don't know/Refused
- D19. Would you definitely consider, probably consider, or not consider elevating your home if it saved you \$3,000 a year on flood insurance? Would you consider it if it saved you about \$25,000 a year on flood insurance?
 - 22% Consider if savings was \$25,000
 - 45 Consider if savings was \$3,000
 - 30 Not consider
 - 3 (VOL) Don't know/Refused

[NOTE: Question D20 was asked of all homeowners; n=410, m.o.e=+ 4.8]

- D20. Would you definitely consider, probably consider, or not consider selling your property to the town or county to be turned into open space?
 - 16% Definitely consider
 - 15 Probably consider
 - 59 Not consider
 - 4 (VOL) Depends
 - 6 (VOL) Don't know/Refused

E. DEMOGRAPHICS

[ASK EVERYONE:]

Now just a few final questions so we can classify your answers –

- E1. What was the last grade in school you completed?
 - 41% High school or less
 - 23 Some college
 - 14 College graduate
 - 20 Graduate school
 - 2 (VOL) Don't know/Refused
- E2. What was your age on your last birthday?
 - 13% 18 to 29
 - 14 30 to 39
 - 12 40 to 49
 - 24 50 to 59
 - 17 60 to 69
 - 20 70 or over
 - 1 (VOL) Don't know/Refused
- E3. How many people live in your household, including yourself?
 - 22% One
 - 39 Two
 - 39 Three or more
 - 0 (VOL) Don't know/Refused
- E3A. How many are children under the age of 18?
 - 27% At least one
 - 72 None
 - 0 (VOL) Don't know/Refused

[NOTE: Question E4 was asked of all homeowners; n=410, m.o.e=± 4.8]

- E4. Are you currently paying a mortgage or other loan on your home, or not?
 - 49% Yes, mortgage
 - 6 Yes, other loan (e.g. home equity)
 - 2 Yes, mortgage and other loan
 - 39 No, no loans on home
 - 4 (VOL) Don't know/Refused

- E5. Are you of Latino or Hispanic origin?
- E6. Are you white, black or of Asian origin?
 - 80% White
 - 9 Black
 - 2 Asian
 - 5 Latino
 - 4 (VOL) Don't know/Refused
- E7. What town do you live in?
 - 32% Monmouth County towns
 - 17 Ocean County towns
 - 28 Atlantic County towns
 - 23 Cape May County towns
- E8. So that we can group all answers, is your total annual family income before taxes: Under \$50,000; from \$50,000 to just under \$100,000; from \$100,000 to just under \$150,000; or \$150,000 or more?
 - 35% Under \$50,000
 - 24 \$50,000 \$99,999
 - 14 \$100,000 \$149,999
 - 11 \$150,000 or more
 - 4 (VOL) Don't know
 - 12 (VOL) Refused
- E9. Respondent gender (from observation)
 - 52% Male
 - 48 Female

Thank you very much for your help.