

A satellite image of Hurricane Sandy, showing a well-defined eye and spiral cloud structure over the Atlantic Ocean. The hurricane is positioned over the eastern coast of the United States, with the Florida peninsula visible in the lower-left quadrant. The text is overlaid on the image.

2012 Fishery Disaster Declaration – Hurricane Sandy

Assessing the Impacts to NJ's Marine Fishing Industries

Overall Summary of Losses – By Sector and Loss Category

Loss Type	Sector						
	For-Hire	Bait & Tackle	Commercial Fishermen	Shellfisheries / Aquaculture	Commercial Dealer	Marina	Grand Total
Loss of Income	\$7,939,543	\$11,581,667	N/A	See 'Lost Opportunity'	N/A	\$11,102,036	\$30,623,246
Infrastructure Damage (property loss)	\$18,266,825	\$37,968,876	N/A	\$593,350	\$10,560,566	\$35,501,922	\$102,298,189
Lost Gear	N/A	N/A	\$49,494,277	\$688,323	N/A	\$19,181,953	\$68,676,230
Lost Product	N/A	\$9,445,231	N/A	N/A	\$633,241	N/A	\$10,078,472
Lost Opportunity/Future Revenue	\$9,238,512	\$29,241,235	N/A	\$1,824,102	N/A	\$14,913,700	\$53,393,447
Ave Loss Per Operation	\$40,240	\$243,904	\$41,418	N/A	\$235,104	N/A	N/A
Uninsured Losses	\$31,060,432	\$78,744,790	\$37,615,651	\$3,595,941	\$9,081,694	\$65,364,218	\$225,462,726
Total Losses	\$35,444,340	\$91,708,082	\$49,494,277	\$3,632,264	\$11,193,807	\$80,699,612	\$272,172,382

Detailed For-Hire Assessment



Received 144 responses from 940 For-Hire operations registered in the NJ Saltwater Registry Program - 15.3% response rate

Proportion of Responses

Scale	0	1	2	3	4	5	N/A
Damage to For-Hire Vessel	40%	19%	13%	11%	7%	5%	4%
Damage to Docking Facilities	17%	10%	13%	6%	22%	23%	10%
Damage to Marina (where vessel is docked)	8%	9%	6%	8%	20%	19%	30%

Damage Scale - 0 (no damage) - 5 (total loss)

Number of For-Hire Vessels Completely Destroyed or Nearly Destroyed: 103 vessels

Average Loss Per For-Hire Operation: \$40,240

Estimated Total Loss of Income: \$7,939,543 (22% of all losses)

Estimated Losses to Vessel, Facility, Equipment and Supplies: \$18,266,285 (51.5% of all losses)

Estimated Future Revenue Loss Until 2013 Season (Lost Opportunity): \$9,238,512 (26.1% of all losses)

Total Estimated Losses for the For-Hire Industry: \$35,444,340

Percent of Uninsured Losses: 76%

Total Estimated Uninsured Losses for the For-Hire Industry: \$31,060,432

Detailed Bait & Tackle Assessment

Received 95 responses from 376 Bait and Tackle Shops and Wholesale Dealers sent the survey- **22.3%** response rate

Operating Status of Bait and Tackle Business 1-2 months post-Sandy

Closed For Season	Closed Due to Sandy	Open	Partially Open
10%	42%	23%	31%
			Ave 40% of Time

Number of Employees Pre-Sandy (cummulative): 434

Number of Emploeyss Post-Sandy (cummulative): 277

Proportion of Responses

Scale	0	1	2	3	4	5	N/A
Damage incurred to office	30%	7%	5%	11%	10%	26%	11%
Damage incurred to other buildings/permanent structure	27%	6%	6%	13%	15%	16%	17%
Lost product (ex. bait)	12%	7%	7%	16%	19%	25%	14%
Losses to other equipment (gas pumps, ice machines, freezers etc.)	11%	2%	8%	7%	8%	48%	16%

Damage Scale - 0 (no damage) - 5 (total loss)

Average Loss Per Bait and Tackle Operation: **\$243,904**

Total Income Losses Due to Damage, Closures etc.: **\$11,581,667** (12.6% of all losses)

Total Value of Lost Product: **\$9,445,231** (10.9% of all losses)

Total Value of Infrastructure Damage to Facilities, Buildings and Equipment: **\$37,968,876** (41.4% of all losses)

Estimated Future Revenue Loss Until 2013 Season (Lost Opportunity): **\$29,241,235** (31.9% of all losses)

Total Estimated Losses to the Bait and Tackle Shop Industry: **\$91,708,082**

Percent of Uninsured Losses: **75%**

Total Estimated Uninsured Losses for the Bait and Tackle Industry: **\$78,744,790**

Detailed Commercial Dealer Assessment

Received 7 responses from 48 NJ commercial dealers - 14.6% response rate

Proportion of Responses

Scale	0	1	2	3	4	5	N/A
Structural Damage to Commercial Port/Dealer Facility	29%	0%	14%	14%	29%	0%	14%

Damage Scale - 0 (no damage) - 5 (total loss)

Average Status for Commercial Port/Dealer

	Pre-Storm	Week 1	Week 2	Week 3	Week 4
Percent Open/Operating	85.70%	17.10%	18.60%	27.10%	39.90%
Percent Change from Pre-Storm		-80.00%	-78.30%	-68.30%	-53.50%
Pounds Purchased Per Week	101,003	33	5,928	17,864	9,474
Percent Change from Pre-Storm		-99.90%	-94.10%	-82.30%	-90.60%
Value (\$) of Landings Per Week	\$73,639	\$593	\$5,965	\$24,856	\$13,163
Percent Change from Pre-Storm		-99.20%	-91.90%	-66.30%	-82.10%

Average Loss Per Commercial Dealer/Port: \$235,104

Estimated Total Product Loss: \$633,241

Estimated Structural, Equipment and Gear Loss: \$10,560,566

Percent of Uninsured Losses: 80%

Total Estimated Uninsured Losses: \$9,081,694

Detailed Commercial Fishermen Assessment

Received 41 responses out of 1,195 licensed commercial fishermen (finfish) - **3.4%** response rate

Proportion of Responses

Scale	0	1	2	3	4	5	N/A
Structural Damage to Commercial Fishing Vessel	51%	22%	12%	10%	2%	2%	0%

Damage Scale - 0 (no damage) - 5 (total loss)

Average Fishing Status for Commercial Fishermen

	Pre-Storm	Week 1	Week 2	Week 3	Week 4
Ave. Number of Trips Per Week	2.11	0.98	1.17	1.54	1.73
Percent Change from Pre-Storm		-53.80%	-44.50%	-27.20%	-17.90%
Ave. Landings (lbs) Per Week	2,315	519	422	802	937
Percent Change from Pre-Storm		-77.60%	-81.80%	-65.30%	-59.50%

Average Loss Per Individual Commercial Fishing Operation/Fisherman: **\$41,418**

Total Estimated Gear/Equipment Losses: **\$49,494,277**

Percent of Uninsured Losses: **76%**

Total Estimated Uninsured Losses: **\$37,615,651**





Detailed Marina Assessment



Received 109 responses out of 676 marinas that were sent surveys* - **16.1%** response rate

Number of Responses

	Destroyed (75% - 100%)	Heavy (35% - 75%)	Damaged (15% - 35%)	Minimal (5% - 15%)	None (<5%)	N/A
Damage incurred to office	32	24	9	14	25	5
Damage incurred to other buildings/permanent structure	16	25	22	20	21	5
Permanent docks & pilings	14	30	22	14	20	9
Floating docks	12	23	13	10	34	17
Lost inventory/product	23	23	16	17	23	7
Losses to other equipment (gas pumps, ice machines, freezers etc.)	34	23	9	9	23	11

Number of Vessels Completely Destroyed or Nearly Destroyed: **934 vessels**

Estimated Total Loss of Income: **\$11,102,036**

Estimated Losses to Facility, Equipment and Supplies: **\$54,683,876**

Estimated Future Revenue Loss Until 2013 Season (Lost Opportunity): **\$14,913,700**

Total Estimated Losses for the Marina Industry: **\$80,619,612**

Percent of Uninsured Losses: **72%**

Total Estimated Uninsured Losses for the For-Hire Industry: **\$65,364,218**

* All information provided by M. Danko – survey by the NJ Marine Trades Association

Detailed Shellfish Industry Assessment

Commercial Shellfishermen Assessment

Received 162 Responses Out of 1,197 Commercial Shellfish Licenses - 13.45% Response Rate
 Total of 138 Commercial Harvesters & 24 Recreational Harvesters
 46 Respondents were Involved in Shellfish Aquaculture
 Total 5 of 9 Shellfish Hatchery Responses
 Total 34 of 130 Certified Shellfish Dealers Responded - 31.5 %



Proportion of Responses

Scale	0	1	2	3	4	5	N/A	Rec
Damage to Harvest Vessels or Equipment (Wild Shellfish Harvesters)	47%	2%	8%	7%	4%	6%	11%	15%
Damage to Shellfish Aquaculture Equipment	50%	11%	17%	4%	11%	7%		
Shellfish Hatcheries	0%	0%	40%	0%	0%	60%		

Damage Scale - 0 (No Damage) - 5 (Total Loss)

Total Estimated Vessel/Equipment Losses (Wild Harvesters): **\$269,483**
 Total Estimated Vessel/Equipment Losses (Shellfish Aquaculture): **\$418,840**
 Total Estimated Losses to Shellfish Hatcheries: **\$423,350**

Total Estimated Lost Harvest Days: 3,847 Man/Days (Wild) & 1,455 Man/Days (Aquaculture)
 Estimated Dockside Value of Shellfish Product Not Harvested: **\$1,424,102**



Shellfish Dealers & Shellfish Facilities Assessment

Estimated Number of Days Closed: 868 & Partially Closed: 430
 Estimated Value of Shellfish Facilities Damage and Lost Economic Opportunity (Reported): **\$1,096,489**

Percent of Uninsured Losses: 99%

Total Shellfish Industry Losses: \$3,632,264