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2023

Long Island Horseshoe Crab Network Annual Inventory Report

CERCOM, Molloy University

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Center for Environmental Research and Coastal Oceans Monitoring

(CERCOM)

Molloy University

Long Island Horseshoe Crab Network

Annual Inventory Report

2023

FINAL REPORT

Director; Dr. John T. Tanacredi

Scientific Research Technical Assistant; Mr. Kyle F. Maurelli

Address:

132 Clyde Street

West Sayville, NY 11796

2023

Student Intern Participation:

Caroline Kane	Volunteer	N/A
1		

CERCOM conducts monitoring of 111 beach locations spanning from Brooklyn to Montauk during the optimal breeding season of Limulus polyphemus. These surveys span approximately 15 weeks, commencing in May and concluding in August. Each beach location is meticulously marked with GPS coordinates to ensure consistent annual revisitation. Participation in these surveys necessitates attendance at an HSC Survey training orientation, led by Mr. Kyle Maurelli, CERCOM's research assistant.

Survey activities are timed to coincide with tide and moon cycles, particularly during New and Full Moons. Each survey site encompasses a distance of approximately one mile and requires 1-2 hours to complete. During these surveys, participants conduct observations while walking along the water's edge, counting both male and female HSCs, as well as noting the presence of deceased or molted individuals.

The collected data is systematically recorded and subsequently submitted via Molloy University's online HSC inventory form and database, accessible on the university's website. This annual endeavor undertaken by Molloy University's CERCOM serves the dual purpose of providing comprehensive data on total observed HSC populations per site and ascertaining the occurrence of HSC breeding at each beach location.

This ongoing effort facilitates the annual recording of trends in breeding beach productivity and the broader population dynamics of Limulus polyphemus across Long Island.

Figure 1

Total Population Number of Horseshoe Crabs (2003 - 2023) 20 Year Trend

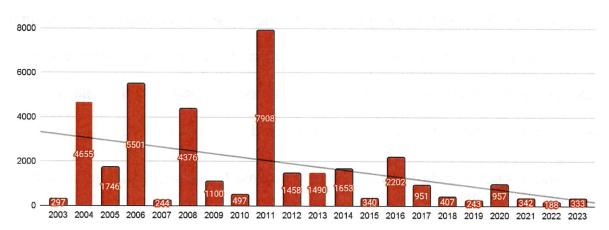


Figure 2.

Habitat Site Fidelity (2003-2023) 20 Year Trend

Annual totals of beach locations with HSC absence.

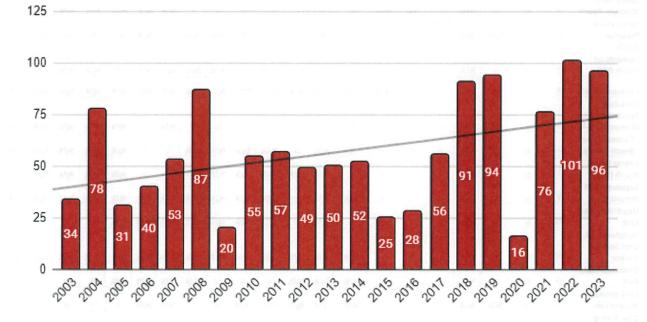


Figure 3.

Yes & No chart for individual CERCOM monitoring locations to show if both male and female Horseshoe Crabs (HSCs) were present at each beach site for indication of breeding.

		2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
	Stepping Stone	N																				
1	Park Plum Beach	IN	N	N	N/A	CLOS	CLOS	N	N	N/A	Υ	N	Y	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Point	Y	Υ	Y	N/A	ED	ED	γ	N/A	N/A	N/A	N/A	N/A	N/A	Υ	Υ	Υ	N/A	N	Y	Y	N
3	Half Moon Beach	N	N	N/A	N/A	CLOS ED	N	Υ	Υ	Υ	Υ	N	Y	N	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Manorhaven	N		12	NUA		.,									-		1.5	21/2			
4	Beach Park	IN	N	N	N/A	CLOS	Y	Υ	N	N/A	N/A	N/A	N/A	N/A	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	Prospect Point Leeds Pond	N	N	N/A	N/A	ED	CLOS	Υ	Y	Υ	Υ	Υ	Y	N	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Museum Beach	N	N	N	N/A	N	ED	N/A	N	Y	Υ	N	N	N	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	Sands Point Preserve	N	N	N/A	N/A	CLOS	N	N	N	N	N	N	N	N/A	N/A	N	N/A	N	N	N	N	Υ
	North													·	•		•					***************************************
8	Hempstead Beach Park	N	N	N	N/A	γ	N	Υ	γ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9	Beekman Beach	N	N	N	N/A	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
	Theodore Roosevelt																					
10	Memorial Park	N	N	N	N/A	N	N	Y	Υ	Υ	γ	Υ	Y	N	. Y	N/A	γ	N/A	N/A	N/A	N/A	N/A
11	Center Island Beach (Shore)	N	N	N	N/A	N	N	N	γ	N/A	N	N/A	N/A	N/A	N/A	Υ	Y	N/A	N/A	N/A	N/A	N/A
	Center Island Beach (Bay)	N	N	N	N/A	Y	N	N	Y	N/A	N/A	N/A	N/A	N/A	N/A	Y	Y	N/A	N/A	N/A	N/A	N/A
	Sagamore Hill	13.3		2.3													TAP		199			
12	Historic Site Llovd Neck Bath	Υ	N	N	N/A	N	N	N	N/A	N/A	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	Club	N	N	N	N/A	Υ	N	Υ	N	N/A	Y	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	N	Υ	N
	Bungtown Rd, Cold Spring	N																				
14	Harbor Caumsett State	14	N	N	N/A	N	Y	Y	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
15	Park Cold Spring	N	N	N	N/A	Υ	N	Y	N/A	N/A	N/A	N	N	N	N/A	N/A	N/A	N/A	N	N	Υ	N
16	Harbor Lab	N	N	N/A	N/A	N	N	γ	N/A	N/A	N/A	N/A	N/A	N	N	N/A	N/A	Y	N	N	Y	Υ
	Cold Spring Harbor Beach																					
17	Club	N	N	N/A	N/A	N	Υ	Y	N/A	N/A	N/A	N/A	N/A	N/A	N	N/A	N/A	Y	N	N	Υ	γ
18	Gold Star Beach Club	Υ	N	N	N/A	N	N	Υ	Y	Y	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Target Rock				1								1			1						
19	National Wildlife Refuge	N	N	Y	N/A	N	Y	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
20	Bay Hills Beach, Huntington	N	N	N	N/A	N	N	N	Y	N	N	N/A	N/A	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Crescent Beach		and the same of th												1	<u> </u>				-		
21	Town Park Hobart Beach	N	N	N	N/A	N	N	N	N	N	Y	N/A	N/A	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22	Park Fleets Cove	N	N	Y	N/A	Υ	N	Y	Y	Υ	N	N	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
23	Beach Park	N	N	N	Υ	N	Υ	N	N	Y	N	Υ	Y	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
24	Centerport Beach Park	N	N	Y	Y	N	γ	N	N	Y	N	N	Υ	N	N/A	Y	Υ	N/A	N	N	γ	N
	Asharoken	N															N. /*			N. / 2		
25	Beach Park Kirschbaum	N	N	CLO	N/A	N	CLOS	1	N	Y	Y	N	N	N/A			N/A				N/A	
26	Park Short Beach,		N		N/A	N	ED	N/A	N	N/A	44	12.2	N/A	N	N/A		N/A		N	N	Υ	N
27	Nissequogue	N	N	N	Y	N	Y	N	Y	N/A	Y	N/A	N/A	N/A	N/A	N	Y	Y	Y	Y	Y	N

28	Long Beach Town Park (Shore)	N	N	N	N	N	N	Y	N/A	N/A	N/A	N	N security s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Long Beach Town Park (Bay)	N	N	Y	Y	N	N	N/A	Y	N	N/A	N/A	N/A	N/A				N/A	N/A	N/A	N/A	
29	Cordwood Park, Stony Brook Harbor	N	N	Y	N	N	N	Y	N/A	N/A	N	N	N	N/A		N/A		N/A	N/A	N/A	N/A	
30	West Meadow Wetlands Reserve	N	N	Y	N/A	N	Υ	Y	Υ	N/A	N/A	N	N	N/A	N/A	N	N/A	N	N	N	Υ	N
31	Walnut Beach, Walnut Ave	N	N	N	N/A	Y	N	N/A	N/A	N/A	Y	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
32	Poquott Beach, Chestnut Ave	N	N	N	N/A	N	N	Y	Υ	N/A	N/A	N	N	Υ	Υ	Υ	N/A	Υ	N	Υ	Y	N
33	Mt Sinai Fishing Spot Mt Sinai: Cedar	N	N	Υ	N/A	Y	γ	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
34	Town Beach	Υ	N	N	N	N	N	N	Y	N	N/A	γ	N	N	Υ	Y	N/A	Υ	Y	N	Υ	N
35	Mt Sinai: Harbor Beach Rd	Υ	Υ	N	N	N	N	N/A	N/A	Y	N	Υ	N	N	Y	Υ	N	Y	Υ	N	Y	N
	Landing Rd,																					
36	Miller Place Seacliff Ave, Miller Place	N	Y	Y	N	N	N	Y	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Υ	N/A	N	Υ	N	Y	N
38	Hagerman Landing Rd, Rocky Point	N	N	Y	N/A	N	N	N	N/A	N/A	N N	N	N	N N	N/A	N	N/A	N	Υ	N	Y	N
39	Beach Ln, Shoreham	Υ	Υ	N	N/A	N	N	N	N/A	N/A	N	N	N	N/A N	N/A	N	N/A	N	N	N	Y	N
	Creek Rd,																					
40	Wading River Wildwood State	Y	Υ	N	N/A	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
41	Park Parak	N	N	Υ	N/A	N	N	N	N/A	N/A	N	N	N	N	N/A	N	N/A	N	N	N	Υ	N
42	Reeves Beach	CLO	N	N	N/A	N	N	N	N/A	N/A	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
43	Roanoke Ave	SED	N CLOS	N CLO	N/A	N CLOS	N	N	N/A	N/A	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
44	Sound Ave South	N	ED	SED	N/A	ED	N	N	N/A	N	N/A	N/A	N/A	N/A	N/A	N	N/A	Υ	N	N	Υ	N
45	Jamesport Beach Breakwater Rd,	N	N	N	N/A	CLOS ED	N	N/A	N	N/A	N	N	N	Υ	N/A	N/A	Υ	N/A	Υ	Υ	N	Υ
46	Mattituck Bailee Beach	N	N	N	N/A	N	N	N	N	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
47	Park, Mattituck New Suffolk	N	N	N	N/A	N	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
48	Beach, 1st St	N	N	N	N/A	N CLOS	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
49	K Rd, Southold Peconic Dunes	N	N	N	N/A	ED CLOS	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50	County Park	N	N	N	N/A	ED	N	N/A	N/A	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
51	Kenny's Beach	N	N	N	N	N	N	N	Υ	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
52	McCabes Beach South Harbor	N	N	N	N/A	N	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
53	Park, Southold	Υ	N	N	N	N	N	N/A	N	N/A	N	N	Υ	Υ	N	N	γ	N	N	N	N	N
54	Narman E. Klipp Marine Park	N	N	Y	N/A	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
55	Southold Town Beach, East Marion	N	N	N	N/A	CLOS ED	N	N	N	N/A	N/A	N/A	N/A				N/A	N/A	N/A	N/A	N/A	N/A
56	Orient Point	N	N	N	N/A	N	N	N/A	N	N	N/A	N	N	N/A	N/A		N/A		N/A	N/A	N/A	N/A
57	Hither Hills State Park	N	N	N/A	NI/A	NI/A	N.	NI/A	NI/A	NI/A	NI/A	A.	6.1	N/		NI/A	81/4	N/4	v		V	N see
31	State Falk		IN	IA/IA	N/A	N/A	N	N/A	N/A	N/A	N/A	N	N	N	N	N/A	N/A	N/A	Υ	N	Υ	N

58	Napeague Harbor Rd, Montauk	N	N	N	N/A	N/A	N	N	N/A	N/A	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Υ	N	Y	N
59	Amagansett National Wildlife Refuge	N	N	N	N/A	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Louse Point	N							······································		-			-						N/A	N/A	N/A
60	Town Beach Havens Beach,		N	N	N/A	N	N	N/A	N/A	N/A	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
61	Sag Harbor Shinnecock Bay	N	N	N	N/A	N	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
62	East Shinnecock	N	N	N	N/A	N	N	N	N/A	N/A	N/A	N	N	N	N/A	N/A	N/A	N/A	N	N	N	Y
63	Inlet	N	N	N	N/A	N	N	N	N/A	N/A	N	N	N	N	N	N	N/A	N/A	N	N	N	Y
64	Ponquogue Point Beach	N	N	N	N/A	N	N	N	N	N	γ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
65	Pike's Beach	N	N	Y	N/A	N	N	Y	N/A	γ	γ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
66	Cupsogue Beach County Park	N	N	N	N/A	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
67	Moriches Coast Guard	N	N	N	N/A	N	N	N	N/A	N/A	N/A	N	Y	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
68	Moriches Inlet	N	N	N	N/A	N	N	N	N/A	N/A	N/A	N	N	N	N/A	N	N/A	N/A	Υ	N	Y	N
69	Smith St, East Moriches	N	N	N	N/A	N	N	N	N/A	N/A	N/A	N	N	N	N/A	N	N/A	N/A	Υ	N	Y	Y
70	Cranberry Dr, Mastic	Υ	N	N	N/A	N	Y	N	N	N	N/A	N	N	N	N/A	N	N/A	N	Υ	N	N	N
		N	N	N	N/A	N	N	γ	N	N	N/A	N	N	N	N/A	N	N/A	Υ	Υ	N	Υ	N
71	Smith Point Sandy Point,					CLOS																
72	Mastic Howell Beach,	N	N	N	N/A	ED	N	N	N/A	N/A	N/A	N	N	N	N/A	N	N/A	N	N	N	N	Y
73	Beach Rd, Mastic	N	N	N	N/A	N	N	N	N	N	Υ	N	N	N	N/A	N	N/A	Y	N	N	Υ	N
74	Mud Creek Dog Park	Υ	N	N	N/A	N	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
75	Watch Hill Campground	N	N	N	N/A	N	Y	N/A	Y	Υ	Υ	N	N	Y	Υ	Υ	N/A	N	N	N	Υ	N
76	Pine Neck Ave	Υ	N	N	N/A	N	N	N	N	N	Y	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
77	Davis Park	N	N	N/A	N/A	N	N	Y	Υ	γ	γ	Υ	Υ	Υ	Υ	Υ	N/A	N/A	N/A	N/A	N/A	N/
78	Corey Beach	N	N	N	N/A	N	N	N	N	N	Y	Υ	N	N/A	N/A	N/A			N/A	N/A	N/A	
79	Namkee Ln Beach, Blue Point	N	N	N	N/A	CLOS	N	N	N/A	N/A	N/A	N/A	N/A	N/A		N/A		The state of the s	N/A	N/A	N/A	N/
80	Foster Ave- Sayville Park	N	N	N	N/A	N	N	N	N/A		N/A			N/A							1000	N/
81	Cercom 1	N	N	N	N/A	N	N	N	N	N	N	N/A	N	N	N	N	N/A		N/A			
	Cercom 2	N	N	N	N/A	N	N	N	N	N	N	N/A	1			N/A			N/A			
	Maritime		<u> </u>		1111								1			1	-					Ţ
82	Museum Beach East	N	N	N	N/A	N	N	N	Υ	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,
	Maritime Museum Beach				4 7			CLOS								ala a						
83	West Heckscher State	N	N	Υ	N/A	N	N	ED	Υ	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,
84	Park Ocean Beach,	N	N	N	N/A	N	N	N	N/A	N/A	N/A	N	N	N	Υ	N	Υ	N	Y	Υ	Υ	1
85	West Beach	N	N	N	N/A	N	N	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N	N	N	Y	r
86	Atlantique	N	N	N	N/A	N	N	N/A	N/A	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,
87	Captree State Park East	N	N	N	N/A	N	N	Y	Y	N	N	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,
	Captree State Park West	N	N	N	N/A	N	N	N	Υ	γ	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
88	Oak Beach 1	N	N	MISS		N	N	Y	Y	Y	N	N	N	NI/A	NI/A	NI/A	N/A	N/A	N/A	N/A	N/A	N

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	Oak Beach 2	N	N	MISS	N/A	N	N	Υ	Υ	Y	N	N	N	N/A								
	Oak Beach 3	N	N	MISS ING MISS	N/A	N	N	γ	Υ	Y	N	N	N	N/A								
****************	Oak Beach 4	N	N	ING	N/A	N	N	Υ	Υ	Y	N	N	N	N/A								
	Oak Beach 5	Υ	N	MISS	N/A	N	N	Υ	Υ	Y	N	N	N	N/A								
	Oak Beach 6	Y	N	MISS	N/A	N	N	Υ	γ	Y	N	N	N	N/A								
89	Gilgo State Park	N	N	MISS	N/A	N	N	N/A	Υ	γ	N	N	Y	N	Υ	γ	Υ	N	N	N	Υ	N
90	Tanner Park Beach	N	N	N	N/A	N	Y	N	N/A	N/A	Υ	N/A										
91	Gilgo Beach	Υ	N	MISS ING	N/A	Υ	Υ	Y	Υ	Y	N	Υ	N	N/A								
92	Tobay Beach	Υ	N	MISS	Υ	N	N	N	N	N	N	N	N	N/A								
93	Alhambra Rd	N	N	N/A	N/A	Υ	γ	N	N/A	N/A	Y	N	Y	N/A								
94	Florence Ave	N	Υ	N	N/A	N	N/A	N	N/A	N/A	N	Υ	Υ	N/A								
95	Zach's Bay	N	N	MISS	N/A	N	Υ	CLOS ED	Υ	N/A	Υ	N	N	N/A								
96	Jones Beach State Park	N	N	MISS	N	N	N	N/A	N/A	N/A	N/A	N/A	N/A	Υ	Υ	N	Y	Υ	Υ	Υ	Υ	Υ
97	Wantaugh Park	N	Y	N	N/A	Υ	N/A	N	Υ	Υ	N	Υ	N	N	N	N	N	N	N	N	N	N
98	Jones Beach Field 10	N	N	MISS	N	N	N	N	Υ	N/A												
	Jones Beach Coast Guard			MISS					_													
99	Beach	N	N	ING	N/A	N	Υ	N/A	N/A	N/A	Υ	N/A	N/A	N	Υ	N/A						
100	Point Lookout West Marina,	N	N	N	Υ	N	N	N/A	N	N/A	Y	N/A	N/A	N/A	N/A	N	Υ	N	N	N	N	Υ
101	Lido Beach	N	N	N	N/A	N	N	N/A	N/A	N/A	N/A	N	Υ	N	N/A	N/A	N/A	N	N	N	N	Υ
102	Masone Beach Long Beach	N	N	N	Υ	N	Υ	N	N/A													
103	Blvd Bridge Ocean Beach	N	N	N	N/A	N	N	Υ	N	N/A												
104	Park, Long Beach	N	N	N/A	N/A	N	Y	N	N	N/A												
105	Hewlett Point Park		N	Y	Y	N	Y	N	N/A	N/A	N	N/A										
106	Bannister Bay		N/A	N/A	N/A	N	CLOS	N/A	N/A	N/A	N	N/A										
	Beach 9							•														
107	Playground		N	N	N/A	N	N/A	N	Υ	Y	Y	N/A										
108	Crossbay Blvd Plum Beach		N	N	N/A	N	N	N	N/A													
109	West Sheepshead		Y	N	N/A	Υ	Υ	N/A	N/A	Y	Υ	Υ	N	N/A								
110	Bay, Shore Blvd Breezy Point		N	N/A	N/A	N	Υ	N/A	N/A	N	N/A	N	N	N	Υ	N/A	Υ	Υ	Υ	Υ	N	Υ
111	Tip		N	N/A	Υ	N	N	N/A	Υ	N	N/A	N	N	N	N	N/A	N/A	N	N	Υ	Υ	Υ

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