

**The 1973-74  
Benthic Macrofaunal  
and Sediment Survey  
of Raritan Bay: Data Report**

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## Table of Contents

Introduction .....	1
Methods .....	1
Results .....	1
Acknowledgements .....	1
References .....	1

### Figures

Figure 1. Location of collection sites in the 1973-74 Raritan Estuary survey and habitat zones used in discussion .....	2
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### Tables

Table 1. The list of station locations and mean depths in meters from the 1973-74 Raritan Estuary benthic survey .....	3
Table 2a. Selected grain size characteristics and percent carbon of the sediments from the 1973-74 Raritan Estuary benthic survey .....	4
Table 2b. Percent distribution of sediment grain size fractions, by phi units, for the 1973 Raritan Bay Estuary benthic survey stations .....	6

### Appendix: The benthic macrofaunal data from the 1973-74 Raritan Estuary survey

Species listing for Raritan Bay, January/February 1973 .....	10
Species listing for Raritan Bay, April/May 1973 .....	17
Species listing for Raritan Bay, July 1973 .....	20
Species listing for Raritan Bay, October/November 1973 .....	24
Species listing for Raritan Bay, February 1974 .....	26

## INTRODUCTION

In January 1973, a comprehensive, seasonal survey of the benthic macro- and meiofauna and sediments of Raritan Bay was begun. Although the survey included 5 collection periods at up to 65 sites, the survey results were not completely processed or analyzed. To date, the only macrofaunal results reported were the preliminary summary of McGrath (1974) and the reexamination of the full data set by Steimle and Caracciolo-Ward (1989). McGrath (1974) reported on 40 samples from 28 stations during the January/February 1973 collections and also included a brief summary of major sediment types and distribution. Steimle and Caracciolo-Ward (1989) summarized all processed macrofaunal data from most collections (264 samples), including biomass measurements from the archived samples.

This report makes available almost all the macrofaunal, sediment grain-size, and organic content data from samples that have been fully processed from this survey. The sediment trace data were reported previously in Greig and McGrath (1977); however, the meiofaunal samples have not been analyzed.

## METHODS

The methods used have been reported in McGrath (1974) and Steimle and Caracciolo-Ward (1989). In brief, they include taking 2 to 5 replicate 0.1m<sup>2</sup> Smith-McIntyre grab samples at up to 65 sites in Raritan Bay (Figure 1, Table 1). All 65 sites were sampled once, during January/February 1973; later collections during April/May, July, and October/November 1973, and February 1974 were mostly in Sandy Hook Bay. From each grab sample, three 37 mm diameter cores were removed for analysis of sediment grain-size, trace metals, and meiofauna. The remaining sample was sieved through a 1 mm mesh screen and the residue fixed in 10 percent formalin for a few days before preservation in 70 percent ethanol. Sorting the sample and identification of taxa were performed in the laboratory with quality assurance inspections by an overseeing, competent taxonomist. The biomass determinations of archived material used only samples still in good condition, i.e., not dried out. These were blot-dried for 3 min and weighed on a balance to 0.1 mg accuracy.

For sediment grain-size analyses, a portion of each core sample was wet-sieved through a 62  $\mu$ m screen, with retained materials then resieved through a series of 7 screens with meshes from 4 mm to 62  $\mu$ m. Pipette analysis was used to determine the three finest size fractions, clay and fine- and coarse-silt, of the <62  $\mu$ m portion. Organic content was determined by weight loss of dried samples upon treatment with 10 percent hydrogen peroxide.

## RESULTS

The sediment grain-size data are presented in Table 2. These results do not differ substantially from those reported in earlier, similar surveys (Dean 1975; Brinkhuis 1980; Cerrato, et. al 1989), and indicate the presence of an irregular band of silt from the mouth of the Raritan River to Sandy Hook, with mostly fine sand in the Hudson zone (Figure 1). The benthic macrofaunal data are summarized in Steimle and Caracciolo-Ward (1989) and suggest a "somewhat" reduced fauna in comparison to other estuarine studies. The full macrofaunal data set is presented in Appendix A to facilitate future comparisons.

## ACKNOWLEDGEMENTS

A number of people participated in the collections and analyses. These include: R. Reid, R. Casino, J. Slocum, T. Calore, D. Gay, K. Child, A. Frame, D. Jeffress, S. Fromm, J. Higgins, B. Trotsky, M. Sheehan, D. Wheeler, S. Partain, F. Almeida, G. Churchill, D. Bojko, C. Mancini, C. Warwick, J. Parks, and A. Rugh.

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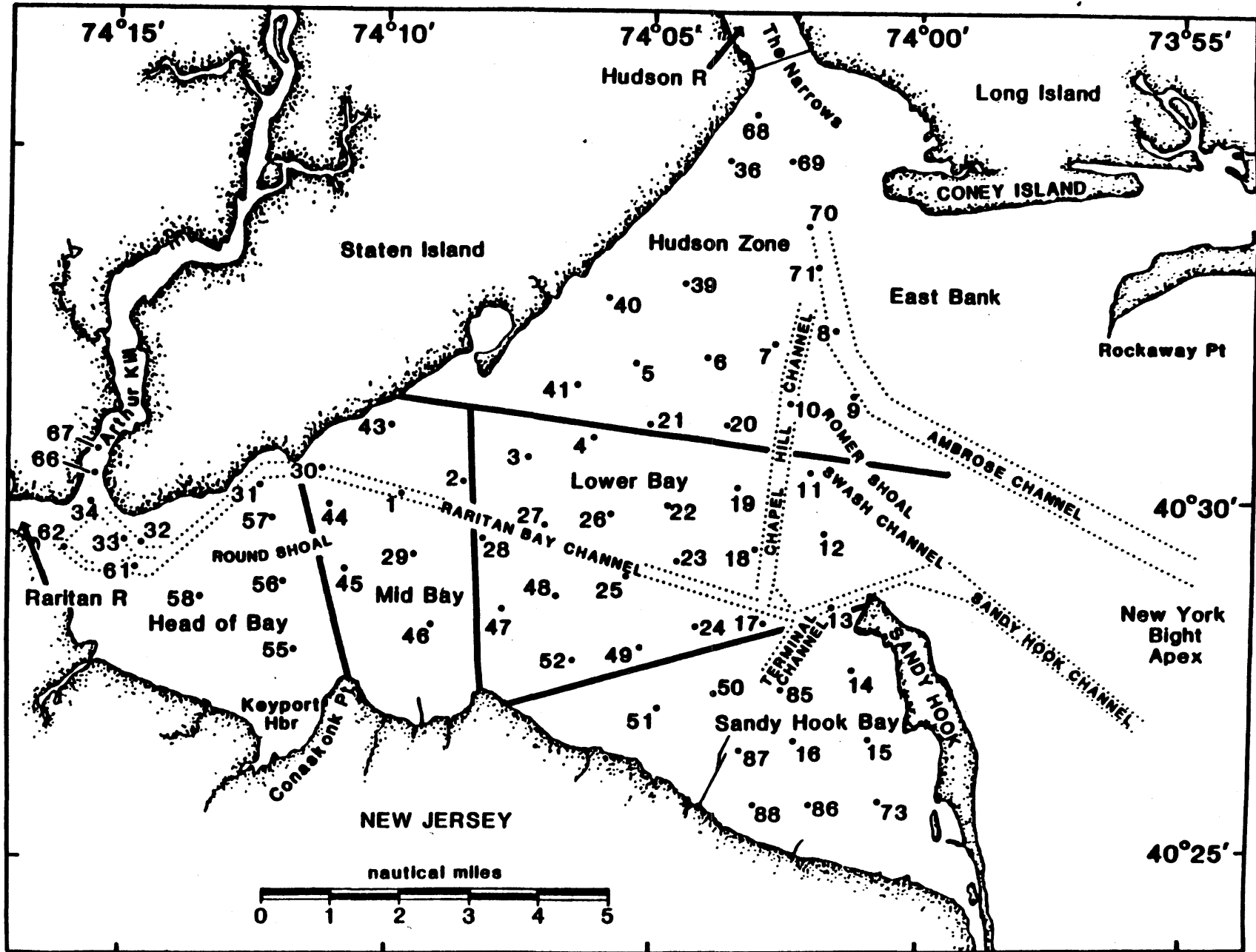


Figure 1. Location of collection sites in the 1973-74 Raritan Estuary survey and the habitat zones used in discussion.

Table 1. The list of station locations and mean depths in meters from the 1973-74 Raritan Estuary benthic survey

Station	Latitude	Longitude	Depth	Station	Latitude	Longitude	Depth
1	40 30 4	74 08 6	6	34	40 35 2	74 03 5	4
2	40 30 7	74 07 3	5	36	40 33 2	74 04 3	4
3	40 30 9	74 06 1	6	39	40 33 0	74 05 6	4
4	40 32 0	74 05 3	5	40	40 31 9	74 06 4	4
5	40 32 3	74 04 1	4	41	40 31 2	74 10 1	4
6	40 32 5	74 02 7	6	43	40 31 1	74 10 1	3
7	40 32 7	74 01 6	14	44	40 29 1	74 10 9	5
8	40 31 8	74 01 2	14	45	40 28 3	74 09 3	4
9	40 31 5	74 02 4	8	46	40 28 6	74 08 1	3
10	40 30 6	74 02 1	6	47	40 28 8	74 06 9	6
11	40 29 6	74 01 9	6	48	40 28 0	74 05 2	7
12	40 28 6	74 01 6	13	49	40 27 3	74 03 9	6
13	40 27 7	74 01 3	8	50	40 27 1	74 04 9	3
14	40 26 7	74 01 0	6	51	40 27 8	74 06 5	4
15	40 26 5	74 02 3	6	52	40 27 9	74 11 8	3
16	40 28 4	74 02 9	8	55	40 28 9	74 12 0	5
17	40 29 4	74 03 2	3	56	40 28 5	74 12 0	4
18	40 30 3	74 03 5	6	57	40 28 6	74 13 5	3
19	40 31 3	74 03 8	7	58	40 29 1	74 14 9	6
20	40 31 1	74 05 0	6	61	40 29 1	74 14 6	6
21	40 30 1	74 04 7	7	62	40 30 3	74 14 7	6
22	40 29 2	74 04 4	7	66	40 30 7	74 15 4	12
23	40 28 2	74 04 2	8	67	40 35 8	74 03 1	8
24	40 29 0	74 05 5	8	68	40 35 2	74 02 4	13
25	40 29 9	74 05 8	8	69	40 34 2	74 02 2	18
26	40 29 7	74 07 1	8	70	40 33 5	74 01 9	16
27	40 29 5	74 08 3	9	71	40 25 7	74 00 7	6
28	40 29 3	74 09 6	6	73	40 27 5	74 02 7	6
29	40 30 5	74 11 3	4	85	40 25 5	74 02 0	6
30	40 30 3	74 11 2	12	86	40 26 5	74 03 3	6
31	40 30 2	74 12 3	12	87	40 25 8	74 03 3	4
32	40 29 5	74 15 0	9	88	40 30 2	74 09 9	5
33	40 30 1	74 15 5	11				

Table 2a. Selected grain size characteristics and percent carbon of the sediments from the 1973-74 Raritan Estuary benthic survey; 0.000 values in the carbon column indicate analysis not done

Station	Mean	Median	Sorting Index	Skewness	Kurtosis	% Carbon
<b>Cruise RB7301</b>						
1	0.026	0.034	2.300	0.200	1.110	4.480
2	0.073	0.097	1.387	0.630	2.805	0.440
3	0.401	0.419	1.110	0.170	1.367	0.170
4	0.216	0.215	0.647	0.000	1.088	0.740
5	0.195	0.171	1.273	-0.160	1.167	0.220
6	0.112	0.114	1.369	0.100	3.300	0.070
7	0.088	0.121	1.646	0.540	2.338	4.130
8	0.184	0.187	0.378	0.010	0.898	2.330
9	0.278	0.282	0.481	-0.010	1.206	0.600
10	0.129	0.145	1.386	0.460	2.578	0.140
11	0.342	0.318	0.712	-0.270	1.139	1.020
12	0.074	0.149	2.156	0.690	1.467	2.490
13	0.347	0.337	0.514	-0.110	1.087	0.780
14	0.031	0.043	2.493	0.270	0.861	8.960
15	0.028	0.037	2.402	0.210	0.951	1.120
16	0.017	0.019	2.273	0.090	0.863	13.640
17	0.032	0.046	2.272	0.350	0.827	7.420
18	0.044	0.071	2.923	0.220	1.124	3.800
19	0.201	0.206	0.351	0.090	1.367	0.810
20	0.219	0.214	0.362	-0.050	1.382	1.030
21	0.276	0.273	0.842	-0.030	1.249	1.610
22	0.098	0.138	1.908	0.510	3.297	3.430
23	0.022	0.030	2.372	0.240	0.764	8.140
24	0.029	0.041	2.755	0.170	0.928	3.540
25	0.022	0.028	2.487	0.150	1.776	5.770
26	0.171	0.173	1.890	0.190	1.801	0.320
27	0.026	0.037	2.407	0.250	0.926	7.960
28	0.074	0.107	3.105	0.230	0.889	0.600
29	0.018	0.022	2.236	0.160	0.895	5.180
30	0.014	0.017	2.261	0.110	0.808	1.100
31	0.009	0.009	1.998	-0.040	0.815	11.780
32	0.326	0.348	1.992	0.330	2.366	2.370
33	0.010	0.010	2.121	-0.060	0.845	1.350
34	0.017	0.018	2.558	0.010	0.820	12.270
36	0.031	0.052	2.095	0.520	0.934	7.220
39	0.291	0.285	0.748	0.010	1.484	0.680
40	0.446	0.407	0.934	-0.130	1.101	0.920
41	0.949	0.827	1.353	-0.190	1.263	0.700
43	0.109	0.110	0.599	0.150	1.467	0.240
44	0.029	0.038	2.549	0.110	1.375	0.280
45	0.012	0.014	2.149	0.080	0.803	0.480
46	0.034	0.043	2.658	0.180	0.845	1.260
47	0.318	0.309	0.385	-0.060	1.173	0.650
48	0.015	0.017	2.230	0.090	0.914	0.760
49	0.014	0.017	2.256	0.090	0.954	0.680
50	0.027	0.036	2.534	0.170	0.895	6.200
51	0.220	0.221	1.144	0.330	3.232	3.110
52	0.022	0.025	2.380	0.120	0.908	11.880
55	0.044	0.042	3.340	-0.040	0.850	0.340
57	0.021	0.028	2.223	0.250	0.873	0.29
61	0.012	0.013	2.258	0.020	0.840	1.020
62	0.008	0.008	2.097	-0.150	0.917	11.860
66	0.022	0.017	3.238	-0.200	0.814	6.220

Table 2a. (con't.)

Station	Mean	Median	Sorting Index	Skewness	Kurtosis	% Carbon
67	0.123	0.327	3.447	0.510	0.837	0.220
68	0.248	0.170	2.177	-0.240	1.560	0.360
69	0.168	0.162	0.408	-0.140	1.102	0.010
70	0.217	0.215	0.673	-0.120	1.099	0.350
71	0.092	0.159	1.841	0.720	2.244	0.000
73	0.079	0.115	1.674	0.590	3.144	4.070
85	0.044	0.104	2.346	0.720	0.874	0.000
86	0.055	0.090	2.909	0.340	0.711	1.480
87	0.012	0.013	2.070	0.070	0.851	0.430
<b>Cruise BE7302</b>						
13	0.391	0.360	0.698	-0.270	1.219	0.000
14	0.020	0.025	2.301	0.180	0.792	0.000
15	0.031	0.065	2.569	0.470	0.813	0.000
16	0.014	0.014	2.450	-0.040	0.861	0.000
17	0.026	0.036	2.297	0.320	0.756	0.000
23	0.025	0.037	2.383	0.300	0.816	0.000
24	0.023	0.028	2.779	0.060	0.907	0.000
49	0.012	0.010	2.502	-0.240	1.146	0.000
50	0.023	0.029	2.484	0.140	0.841	0.000
51	0.305	0.300	0.389	-0.050	1.421	0.000
73	0.054	0.129	2.873	0.530	0.816	0.000
85	0.030	0.050	2.763	0.280	0.811	0.000
86	0.035	0.047	2.787	0.200	0.795	0.000
87	0.011	0.012	2.201	0.000	0.901	0.000
88	0.203	0.210	0.954	0.350	2.084	0.000
<b>Cruise BE7303</b>						
13	0.425	0.421	0.830	0.140	1.672	0.610
15	0.028	0.039	2.254	0.280	0.917	3.020
16	0.017	0.020	2.375	0.100	0.934	9.170
17	0.047	0.098	2.149	0.710	0.889	3.970
23	0.013	0.016	2.058	0.170	0.825	4.700
24	0.015	0.017	2.292	0.060	0.836	5.000
49	0.012	0.013	2.239	0.010	0.891	5.240
50	0.022	0.027	2.413	0.140	0.775	3.970
51	0.288	0.279	0.675	-0.200	1.350	1.200
73	0.068	0.100	1.592	0.570	2.002	4.120
85	0.052	0.106	2.234	0.630	1.117	3.600
86	0.028	0.027	1.795	-0.050	0.962	7.830
87	0.011	0.012	1.976	0.090	0.820	10.340
88	0.208	0.211	0.792	0.320	2.257	1.610
<b>Cruise BE304</b>						
13	0.680	0.451	1.482	-0.560	1.028	0.540
15	0.020	0.021	2.294	0.100	0.823	10.100
16	0.013	0.016	2.153	0.110	0.916	9.970
17	0.028	0.040	2.277	0.340	0.804	4.640
23	0.020	0.024	2.409	0.140	0.715	3.670
49	0.013	0.016	2.078	0.140	0.861	5.050
50	0.021	0.026	2.504	0.140	0.752	4.350
51	0.247	0.244	0.501	-0.060	1.114	1.710
73	0.043	0.089	2.229	0.620	1.020	2.010
85	0.034	0.056	2.371	0.420	0.813	7.110
86	0.115	0.255	2.456	0.690	1.218	2.960
87	0.014	0.017	1.970	0.180	0.913	7.010
88	0.015	0.022	2.029	0.290	0.989	6.660



Table 2b. Percent distribution of sediment grain size fractions, by phi units, for the 1973 Raritan Estuary benthic survey stations

Station	PHI Size Category									
	≥ -2	-1	0	1	2	3	4	5-6	7-8	≤ 9
<b>Cruise RB7301</b>										
1	0.000	1.220	1.190	1.630	2.210	4.320	22.660	38.090	14.590	14.100
2	0.000	0.000	0.000	0.830	2.570	14.460	59.820	12.590	4.200	4.540
3	0.000	1.720	6.500	29.440	42.440	10.420	5.520	1.930	1.640	1.410
4	0.000	0.000	0.170	3.300	31.790	56.180	7.110	0.870	0.110	0.460
5	0.000	1.330	3.220	9.060	25.980	29.790	24.610	2.920	1.040	2.040
6	0.630	0.600	2.580	2.780	4.790	28.980	45.540	7.550	3.270	3.320
7	2.070	0.200	0.430	1.020	3.670	40.290	30.920	10.530	5.460	5.440
8	0.000	0.000	0.000	0.080	9.450	86.970	2.910	0.180	0.080	0.330
9	0.000	0.130	0.610	4.990	61.350	30.400	0.190	2.030	0.060	0.230
10	0.000	0.020	0.120	0.380	10.450	54.180	19.240	6.880	4.100	4.620
11	0.000	0.270	3.600	16.430	55.830	22.850	0.270	0.210	0.100	0.450
12	0.000	0.000	0.000	1.990	7.000	51.810	13.140	8.040	9.920	8.100
13	0.000	0.210	1.020	12.720	71.540	13.790	0.100	0.270	0.170	0.170
14	0.000	0.270	0.720	1.600	5.900	14.630	20.120	25.830	15.580	15.360
15	0.000	0.340	0.940	2.030	4.840	8.390	21.730	31.170	15.980	14.570
16	0.000	0.000	0.430	0.940	2.170	5.250	12.380	33.640	25.240	19.950
17	0.000	0.000	0.190	0.720	2.640	18.720	21.980	26.220	16.310	13.220
18	0.000	4.970	3.930	2.740	3.600	17.870	19.450	19.030	15.450	12.960
19	0.000	0.110	0.210	0.460	12.920	83.920	1.690	0.430	0.000	0.250
20	0.000	0.000	0.100	0.350	21.370	75.040	1.920	0.300	0.240	0.680
21	1.050	0.630	1.790	9.960	43.740	34.860	6.460	1.180	0.130	0.190
22	0.000	0.000	1.490	3.020	9.880	46.020	19.670	7.030	5.310	7.580
23	0.000	0.070	0.000	1.600	2.280	8.060	23.680	26.970	18.610	18.730
24	0.000	1.970	2.390	2.590	3.210	13.240	19.990	21.670	17.910	17.020
25	0.000	0.210	0.440	1.170	3.780	10.790	17.610	27.030	19.900	19.060
26	0.000	2.310	2.840	6.880	27.990	22.710	22.060	5.860	4.560	4.800
27	0.000	0.850	1.190	1.830	2.970	5.420	27.420	27.810	16.850	15.650
28	0.440	3.540	4.890	9.860	15.760	12.790	10.530	17.770	13.290	11.160
29	0.000	0.000	0.000	0.740	2.990	4.820	13.630	37.450	21.910	18.460
30	0.000	0.000	0.000	0.600	2.600	3.450	11.110	33.730	23.970	24.550
31	0.000	0.000	0.020	0.140	1.050	1.530	4.890	28.890	34.710	28.750
32	0.000	2.660	6.740	23.120	37.450	14.460	1.400	4.860	3.420	6.200
33	0.000	0.000	0.000	0.000	0.960	3.900	5.710	28.640	32.820	27.960
34	0.000	0.880	0.050	0.490	4.500	8.420	8.810	29.330	22.620	24.910
36	0.000	0.000	0.050	0.300	0.850	7.210	37.960	26.940	13.330	13.360
39	0.000	0.100	0.580	12.490	51.590	27.880	5.250	1.370	0.190	0.550
40	0.000	1.780	9.330	26.290	47.780	10.500	2.890	0.610	0.110	0.710

Table 2B. (con't.)

Station	PHI Size Category									
	≥ -2	-1	0	1	2	3	4	5-6	7-8	≤ 9
41	7.460	13.200	19.030	37.360	17.210	2.620	1.520	0.720	0.250	0.630
43	0.000	0.000	0.000	0.410	1.520	31.500	59.720	5.830	0.300	0.720
44	0.000	3.230	2.120	2.200	2.650	4.780	21.930	35.880	14.130	13.070
45	0.000	0.000	0.060	0.520	1.390	3.040	7.690	34.670	26.480	26.160
46	0.000	0.000	0.110	3.040	10.770	13.270	15.900	25.760	15.920	15.220
47	0.000	0.050	0.120	1.990	82.730	14.200	0.120	0.030	0.120	0.620
48	0.000	0.270	0.220	0.660	2.760	4.040	8.520	36.000	25.260	21.260
49	0.000	1.300	1.030	1.050	1.520	2.630	7.500	37.480	25.650	21.830
50	0.000	1.690	1.170	1.770	3.860	10.150	20.730	26.160	18.760	15.710
51	0.000	0.360	0.300	2.230	33.290	54.260	0.790	2.710	2.890	3.180
52	0.000	0.510	0.710	0.910	3.600	8.270	13.890	34.160	20.900	17.050
55	0.000	3.710	6.450	6.920	7.310	7.700	10.810	24.750	15.650	16.690
57	0.000	0.000	0.000	0.770	2.390	5.710	19.420	37.410	17.010	17.280
61	0.000	0.000	0.010	0.430	3.120	3.300	8.150	31.850	26.870	26.280
62	0.000	0.000	0.000	0.530	2.320	2.230	2.410	23.780	35.840	32.900
66	0.000	4.140	2.310	3.530	7.030	7.480	5.530	21.360	22.220	26.380
67	2.370	4.120	8.780	19.770	23.950	5.940	1.320	10.160	10.730	12.870
68	3.610	6.440	5.720	10.890	13.990	29.960	18.600	4.310	3.210	3.260
69	0.000	0.000	0.030	0.690	5.510	85.360	6.520	0.670	0.090	1.130
70	0.540	0.580	0.970	4.100	30.880	56.450	5.370	0.490	0.250	0.370
71	0.000	0.000	0.180	0.550	6.370	63.580	6.960	8.140	8.350	5.870
73	0.000	1.110	0.830	1.400	2.610	36.030	36.600	8.780	6.260	6.380
85	0.000	0.000	0.000	0.670	2.760	37.180	20.660	13.140	11.510	14.090
86	0.000	0.740	0.980	6.460	29.640	10.250	3.820	18.180	16.020	13.910
87	0.000	0.000	0.090	0.400	1.510	2.470	5.610	35.870	29.750	24.310
88	0.000	0.050	0.690	1.870	4.080	5.690	6.740	31.500	25.000	24.380
Cruise BE7302										
13	0.000	1.590	4.020	19.870	63.200	9.960	0.250	0.500	0.260	0.340
14	0.000	0.000	0.000	0.910	1.630	8.180	16.940	33.200	20.590	18.550
15	0.000	0.030	0.080	3.180	5.090	10.820	31.630	14.620	16.470	18.070
16	0.000	0.000	0.430	1.240	3.860	5.700	7.660	29.180	25.680	26.240
17	0.000	0.000	0.070	0.410	2.040	13.450	23.580	26.510	17.660	16.270
23	0.000	0.120	0.050	0.930	3.280	11.110	23.870	28.450	15.010	17.190
24	0.000	2.850	1.650	1.970	2.720	9.110	17.480	24.920	19.730	19.570

Table 2b. (con't)

Station	PHI Size Category									
	≥ -2	-1	0	1	2	3	4	5-6	7-8	≤ 9
49	0.000	1.790	1.630	1.880	2.780	2.910	5.630	21.250	38.830	23.300
50	0.000	1.490	1.070	1.560	2.510	8.000	20.390	26.860	20.650	17.480
51	0.000	0.220	0.770	3.020	78.580	15.910	0.300	0.270	0.350	0.580
73	2.410	0.040	0.260	4.890	13.990	29.720	15.040	4.990	13.340	15.320
85	0.000	2.580	1.090	2.060	3.710	21.430	16.600	16.320	17.580	18.630
86	0.000	0.000	0.150	4.230	11.670	14.020	15.350	21.600	16.160	16.830
87	0.000	0.000	0.200	0.870	2.770	2.710	4.550	33.830	29.170	25.900
88	0.000	0.000	0.000	1.580	30.310	54.210	4.050	5.900	1.400	2.550
<b>Cruise BE7303</b>										
13	0.000	0.390	3.610	28.900	58.510	3.470	0.160	3.010	0.190	1.760
15	0.000	0.000	0.000	1.840	3.390	8.350	26.270	29.660	17.300	13.200
16	0.000	0.000	0.040	0.420	4.890	7.020	6.190	38.710	21.360	21.360
17	0.000	0.000	0.000	0.540	1.440	35.590	21.190	17.280	13.090	10.860
23	0.000	0.000	0.130	0.760	1.130	1.900	6.260	40.060	25.930	23.840
24	0.000	0.000	0.000	1.410	1.830	4.770	10.730	32.560	26.210	22.490
49	0.000	0.000	0.000	0.480	2.410	5.330	6.290	32.460	28.650	24.390
50	0.000	0.000	0.000	1.050	3.780	10.450	17.650	27.960	21.370	17.740
51	1.250	1.220	1.480	7.000	50.050	36.570	0.570	0.280	0.630	0.980
73	0.000	0.000	0.100	1.810	3.130	18.900	49.620	13.380	8.660	4.410
85	0.000	0.000	0.530	2.540	4.100	33.440	24.490	13.690	10.660	10.550
86	0.000	0.000	0.000	0.110	2.080	11.630	9.050	45.090	30.390	1.660
87	0.000	0.000	0.000	0.300	1.270	1.500	4.740	37.100	30.870	24.230
88	0.000	0.000	0.090	1.640	26.690	62.060	3.450	2.230	2.090	1.750
<b>Cruise BE7304</b>										
13	9.670	8.930	9.300	14.710	51.710	4.830	0.340	0.190	0.160	0.710
15	0.000	0.000	0.000	0.200	0.600	12.490	11.240	33.020	24.500	17.960
16	0.000	0.000	0.000	1.100	2.290	3.370	5.640	38.540	26.920	22.130
17	0.000	0.000	0.000	0.650	1.770	16.470	21.920	29.260	14.870	15.070
23	0.000	0.000	0.000	0.990	2.720	9.900	17.560	26.720	21.980	20.140
49	0.000	0.000	0.000	0.300	1.570	3.110	6.300	38.860	27.250	22.600
50	0.000	0.000	0.000	1.010	4.800	8.480	19.470	25.240	20.340	20.670
51	0.000	0.200	0.390	3.010	43.350	50.290	0.620	0.250	0.610	1.290
73	0.000	0.000	0.000	1.360	4.090	16.550	37.320	16.090	13.030	11.560
85	0.000	0.000	0.000	1.370	3.240	23.420	20.280	22.340	14.950	14.390
86	0.000	0.000	0.390	8.390	42.770	18.710	3.580	9.490	8.460	8.210
87	0.000	0.000	0.000	0.500	1.510	2.410	4.980	43.490	28.040	19.070
88	0.000	0.000	0.000	0.790	1.900	2.820	3.600	54.100	17.530	19.260

## APPENDIX

### **The Benthic Macrofaunal Data from the 1973-74 Raritan Estuary Survey**

**By seasonal collection and station, listing with species collected, numerical abundance, and available biomass values. A period in the weight column indicates specimens not found or, in the case of encrusting organisms, not weighed**

## Species Listing for Raritan Bay, January/February 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
<b>Station 1</b>				<b>Station 4</b>			
1	<i>Prosuberites epiphytum</i>	1	.	1	<i>Nephtys picta</i>	3	44
1	<i>Nereis succinea</i>	1	7	1	<i>Glycera dibranchiata</i>	5	235
1	<i>Polydora ligni</i>	1	1	1	<i>Spio filicornis</i>	1	3
1	<i>Spio filicornis</i>	1	2	1	<i>Streblospio benedicti</i>	1	1
1	<i>Pectinaria gouldii</i>	1	24	1	<i>Nassarius trivittatus</i>	1	496
1	<i>Crepidula fornicata</i>	1	16				
1	<i>Mercenaria mercenaria</i>	2	32	1	<i>Tellina agilis</i>	9	150
1	<i>Balanus improvisus</i>	20	1423	2	<i>Nephtys picta</i>	1	16
1	<i>Crangon septemspinosa</i>	1	97	2	<i>Glycera dibranchiata</i>	4	97
				2	<i>Spio filicornis</i>	3	25
2	<i>Mercenaria mercenaria</i>	1	3	2	<i>Streblospio benedicti</i>	1	1
<b>Station 2</b>				2	<i>Spiochaetopterus oculatus</i>	1	2
1	<i>Streblospio benedicti</i>	2	1	2	<i>Nassarius trivittatus</i>	1	614
1	<i>Tharyx acutus</i>	3	2	2	<i>Mulinia lateralis</i>	1	12
1	<i>Sabellaria vulgaris</i>	1	3	2	<i>Tellina agilis</i>	1	18
1	<i>Crepidula fornicata</i>	3	13	<b>Station 5</b>			
1	<i>Mulinia lateralis</i>	3	680	1	<i>Glycera americana</i>	2	57
1	<i>Mercenaria mercenaria</i>	1	83000	1	<i>Glycera dibranchiata</i>	1	228
1	<i>Balanus improvisus</i>	11	.	1	<i>Drilonereis magna</i>	1	37
1	<i>Pagurus longicarpus</i>	1	530	1	<i>Polydora ligni</i>	2	2
				1	<i>Spio filicornis</i>	1	6
2	<i>Streblospio benedicti</i>	1	1	1	<i>Streblospio benedicti</i>	9	4
2	<i>Sabellaria vulgaris</i>	2	1	1	<i>Tharyx acutus</i>	1	1
2	<i>Crepidula plana</i>	4	166	1	<i>Oligochaeta</i>	2	1
2	<i>Mulinia lateralis</i>	1	84	1	<i>Tellina agilis</i>	4	61
2	<i>Mercenaria mercenaria</i>	2	.	1	<i>Unciola serrata</i>	2	2
<b>Station 3</b>							
1	<i>Glycera americana</i>	2	.	2	<i>Paranaitis speciosa</i>	1	2
1	<i>Glycera dibranchiata</i>	1	18	2	<i>Eumida sanguinea</i>	1	1
1	<i>Polydora ligni</i>	2	3	2	<i>Nephtyidae sp.</i>	1	2
1	<i>Spio filicornis</i>	4	22	2	<i>Glycera dibranchiata</i>	1	120
1	<i>Streblospio benedicti</i>	3	1	2	<i>Lumbrineris tenuis</i>	1	21
1	<i>Heteromastus filiformis</i>	2	.4	2	<i>Polydora ligni</i>	1	1
1	<i>Sabellaria vulgaris</i>	1	1	2	<i>Spio filicornis</i>	5	18
1	<i>Balanus improvisus</i>	3	1	2	<i>Streblospio benedicti</i>	7	2
1	<i>Pagurus longicarpus</i>	1	21	2	<i>Tharyx acutus</i>	1	1
				2	<i>Sabellaria vulgaris</i>	42	42
2	<i>Glycera dibranchiata</i>	2	418	2	<i>Pectinaria gouldii</i>	1	11
2	<i>Polydora ligni</i>	3	4	2	<i>Peloscolex gabriellae</i>	1	1
2	<i>Streblospio benedicti</i>	5	1	2	<i>Crepidula plana</i>	11	515
2	<i>Heteromastus filiformis</i>	2	8	2	<i>Tellina agilis</i>	4	38
2	<i>Sabellaria vulgaris</i>	1	2	2	<i>Unciola serrata</i>	3	3
2	<i>Peloscolex intermedius</i>	1	1	2	<i>Unciola dissimilis</i>	1	35
2	<i>Tellina agilis</i>	1	24	2	<i>Eurypanopeus depressus</i>	1	1104
2	<i>Balanus improvisus</i>	2	.	<b>Station 6</b>			
2	<i>Oxyurostylis smithi</i>	1	3	1	<i>Rhynchocoela</i>	1	1
2	<i>Pagurus longicarpus</i>	1	660	1	<i>Eumida sanguinea</i>	1	1



## Species Listing for Raritan Bay, January/February 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
2	<i>Ophelia bicornis</i>	4	40				
2	<i>Spisula solidissima</i>	3	16				
2	<i>Tellina agilis</i>	2	28				
	<b>Station 12</b>						
1	<i>Harmothoe extenuata</i>	3	28				
1	<i>Lepidonotus squamatus</i>	1	33				
1	<i>Eteone heteropoda</i>	1	1				
1	<i>Paranaitis speciosa</i>	1	3				
1	<i>Eumida sanguinea</i>	25	7				
1	<i>Nereis succinea</i>	66	308				
1	<i>Glycera americana</i>	8	16				
1	<i>Polydora socialis</i>	1	4				
1	<i>Streblospio benedicti</i>	5	2				
1	<i>Tharyx acutus</i>	223	422				
1	<i>Sabellaria vulgaris</i>	8	4				
1	<i>Pectinaria gouldii</i>	1	3				
1	<i>Peloscolex intermedius</i>	104	19				
1	<i>Crepidula fornicata</i>	42	995				
1	<i>Crepidula plana</i>	153	3366				
1	<i>Urosalpinx cinera</i>	1	2014				
1	<i>Mytilus edulis</i>	3	9792				
1	<i>Modiolus modiolus</i>	158	76				
1	<i>Tellina agilis</i>	4	10				
1	<i>Balanus improvisus</i>	206	4005				
1	<i>Edotea triloba</i>	1	3				
1	<i>Corophium tuberculatum</i>	14	3				
1	<i>Unciola serrata</i>	2	1				
1	<i>Elasmopus levis</i>	31	52				
1	<i>Cancer irroratus</i>	2	10762				
1	<i>Neopanope texana sayi</i>	37	9665				
2	<i>Harmothoe extenuata</i>	1	3				
2	<i>Eumida sanguinea</i>	7	1				
2	<i>Nereis succinea</i>	25	56				
2	<i>Glycera americana</i>	21	116				
2	<i>Streblospio benedicti</i>	78	19				
2	<i>Tharyx acutus</i>	356	689				
2	<i>Heteromastus filiformis</i>	4	29				
2	<i>Sabellaria vulgaris</i>	1	1				
2	<i>Pectinaria gouldii</i>	2	7				
2	<i>Peloscolex intermedius</i>	141	17				
2	<i>Crepidula plana</i>	4	478				
2	<i>Mytilus edulis</i>	2	2530				
2	<i>Tellina agilis</i>	1	11				
2	<i>Balanus improvisus</i>	25	.				
2	<i>Oxyurostylis smithi</i>	3	3				
2	<i>Edotea triloba</i>	1	1				
2	<i>Corophium tuberculatum</i>	3	1				
2	<i>Unciola serrata</i>	3	6				
2	<i>Elasmopus levis</i>	13	19				
2	<i>Gammarus lawrencianus</i>	11	.				
2	<i>Paracaprella tenuis</i>	1	1				
2	<i>Crangon septemspinosa</i>	1	5				
	<b>Station 13</b>						
1	<i>Rhynchocoela</i>	3	9				
1	<i>Nephtys picta</i>	1	14				
1	<i>Goniadella gracilis</i>	1	3				
1	<i>Tellina agilis</i>	1	29				
1	<i>Paraphoxus spinosus</i>	1	1				
1	<i>Rhepoxynius hudsoni</i>	2	8				
2	<i>Rhynchocoela</i>	4	12				
2	<i>Syllidae</i>	10	1				
2	<i>Nereis acuminata</i>	1	3				
2	<i>Nephtys picta</i>	1	4				
2	<i>Scolecoplepides viridis</i>	1	12				
2	<i>Leptochelia savignyi</i>	18	2				
2	<i>Rhepoxynius hudsoni</i>	28	75				
	<b>Station 14</b>						
1	<i>Nephtys incisa</i>	2	121				
2	<i>Nephtys incisa</i>	2	157				
	<b>Station 15</b>						
1	<i>Nephtys incisa</i>	1	63				
	<b>Station 16</b>						
1	<i>Nephtys incisa</i>	4	155				
1	<i>Mulinia lateralis</i>	4	24				
2	<i>Nephtys incisa</i>	2	294				
2	<i>Mulinia lateralis</i>	67	549				
	<b>Station 17</b>						
1	<i>Nephtys incisa</i>	2	110				
1	<i>Mulinia lateralis</i>	18	410				
2	<i>Nephtys incisa</i>	2	122				
2	<i>Mulinia lateralis</i>	1	19				
	<b>Station 18</b>						
1	<i>Paranaitis speciosa</i>	1	1				
1	<i>Eumida sanguinea</i>	2	1				
1	<i>Nereis succinea</i>	3	1				
1	<i>Streblospio benedicti</i>	28	.				
1	<i>Tharyx acutus</i>	2	1				
1	<i>Peloscolex gabriellae</i>	2	1				
1	<i>Neomysis americana</i>	1	1				
1	<i>Oxyurostylis smithi</i>	2	1				
1	<i>Elasmopus levis</i>	1	1				
2	<i>Metridium senile</i>	189	2				
2	<i>Paranaitis speciosa</i>	3	5				
2	<i>Eumida sanguinea</i>	8	.				
2	<i>Nereis succinea</i>	4	2				

## Species Listing for Raritan Bay, January/February 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
2	<i>Glycera americana</i>	3	503	1	<i>Polydora ligni</i>	2	1
2	<i>Lumbrineris</i> sp. (frag)	1	1	1	<i>Sabellaria vulgaris</i>	7	5
2	<i>Streblospio benedicti</i>	45	19	1	<i>Pectinaria gouldii</i>	1	166
2	<i>Tharyx acutus</i>	1	1	1	<i>Nassarius trivittatus</i>	3	236
2	<i>Sabellaria vulgaris</i>	267	234				
2	<i>Peloscolex intermedius</i>	1	.	2	<i>Eteone heteropoda</i>	1	.
2	<i>Crepidula convexa</i>	2	8	2	<i>Polydora ligni</i>	2	.
2	<i>Crepidula plana</i>	8	75	2	<i>Streblospio benedicti</i>	2	.
2	<i>Tellina agilis</i>	1	5	2	<i>Peloscolex gabriellae</i>	1	.
2	<i>Balanus improvisus</i>	38	.	2	<i>Nassarius trivittatus</i>	1	.
2	<i>Elasmopus levis</i>	1	3				
2	<i>Gammarus lawrencianus</i>	1	2		<b>Station 23</b>		
2	<i>Melita nitida</i>	1	1	1	<i>Nephtys incisa</i>	2	127
2	<i>Cancer irroratus</i>	1	15				
	<b>Station 19</b>			2	<i>Nephtys incisa</i>	4	68
1	<i>Rhynchocoela</i>	1	7	2	<i>Streblospio benedicti</i>	2	1
1	<i>Nephtys picta</i>	4	20	2	<i>Mulinia lateralis</i>	2	63
1	<i>Tellina agilis</i>	4	46				
					<b>Station 24</b>		
2	<i>Rhynchocoela</i>	1	10	1	<i>Nephtys incisa</i>	3	.
2	<i>Nephtys picta</i>	1	1	1	<i>Mulinia lateralis</i>	3	.
2	<i>Acesta nolani</i>	1	2	1	<i>Mercenaria mercenaria</i>	1	.
				2	<i>Nephtys incisa</i>	2	70
	<b>Station 20</b>			2	<i>Mulinia lateralis</i>	14	93
1	<i>Rhynchocoela</i>	1	.	2	<i>Crangon septemspinosa</i>	1	64
1	<i>Nephtys picta</i>	1	.				
1	<i>Spiophanes bombyx</i>	1	.		<b>Station 25</b>		
1	<i>Lunatia heros</i>	1	.	1	<i>Nephtys incisa</i>	8	285
1	<i>Tellina agilis</i>	10	.	1	<i>Pectinaria gouldii</i>	1	33
2	<i>Rhynchocoela</i>	1	1	1	<i>Nassarius trivittatus</i>	1	241
2	<i>Nephtys picta</i>	2	10	1	<i>Neomysis americana</i>	1	1
2	<i>Streblospio benedicti</i>	1	1	2	<i>Nephtys incisa</i>	1	.
2	<i>Nassarius trivittatus</i>	3	156	2	<i>Crepidula plana</i>	1	.
2	<i>Tellina agilis</i>	7	51	2	<i>Nassarius trivittatus</i>	1	.
	<b>Station 21</b>				<b>Station 26</b>		
1	<i>Rhynchocoela</i>	1	5	1	<i>Lepidonotus sublevis</i>	2	4
1	<i>Nephtys picta</i>	1	26	1	<i>Paranaitis speciosa</i>	2	1
1	<i>Glycera dibranchiata</i>	1	6	1	<i>Eumida sanguinea</i>	37	2
1	<i>Acesta nolani</i>	14	.	1	<i>Nereis succinea</i>	20	6
1	<i>Streblospio benedicti</i>	8	1	1	<i>Glycera americana</i>	1	41
1	<i>Tharyx acutus</i>	7	2	1	<i>Sabellaria vulgaris</i>	355	111
1	<i>Mulinia lateralis</i>	1	1	1	<i>Pectinaria gouldii</i>	1	6
1	<i>Tellina agilis</i>	11	.	1	<i>Crepidula fornicata</i>	10	154
1	<i>Crangon septemspinosa</i>	1	111	1	<i>Nassarius trivittatus</i>	6	854
2	<i>Glycera dibranchiata</i>	3	36	1	<i>Crassostrea virginica</i>	1	.
2	<i>Streblospio benedicti</i>	1	1	1	<i>Balanus improvisus</i>	30	.
2	<i>Tellina agilis</i>	4	98	1	<i>Edotea triloba</i>	1	1
				1	<i>Corophium insidiosum</i>	1	.
	<b>Station 22</b>			1	<i>Unciola serrata</i>	12	.
1	<i>Rhynchocoela</i>	2	1	1	<i>Elasmopus levis</i>	3	1





## Species Listing for Raritan Bay, January/February 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
2	<i>Spio filicornis</i>	2	2		<b>Station 46</b>		
2	<i>Streblospio benedicti</i>	32	3	1	<i>Nephtys incisa</i>	3	36
2	<i>Tharyx acutus</i>	1	1	1	<i>Mulinia lateralis</i>	2	42
2	<i>Pectinaria gouldii</i>	1	7				
2	<i>Oligochaeta</i>	1	1	2	<i>Mulinia lateralis</i>	4	.
2	<i>Peloscolex gabriellae</i>	4	2	2	<i>Mercenaria mercenaria</i>	1	.
2	<i>Tellina agilis</i>	1	1		<b>Station 47</b>		
2	<i>Unciola serrata</i>	3	3	1	<i>Spio filicornis</i>	1	.
2	<i>Crangon septemspinosa</i>	1	50	1	<i>Streblospio benedicti</i>	17	.
	<b>Station 41</b>			1	<i>Tellina agilis</i>	3	.
1	<i>Eumida sanguinea</i>	1	1	1	<i>Crangon septemspinosa</i>	1	.
1	<i>Parapionosyllis longicirrata</i>	1	.				
1	<i>Glycera dibranchiata</i>	2	27	2	<i>Rhynchocoela</i>	1	.
1	<i>Spio filicornis</i>	1	7	2	<i>Glycera dibranchiata</i>	4	.
1	<i>Streblospio benedicti</i>	1	1	2	<i>Spio filicornis</i>	1	.
1	<i>Peloscolex gabriellae</i>	12	1	2	<i>Tellina agilis</i>	1	.
1	<i>Tellina agilis</i>	1	8		<b>Station 48</b>		
				1	<i>Nephtys incisa</i>	1	157
2	<i>Glycera dibranchiata</i>	1	15		<b>Station 49</b>		
2	<i>Spio filicornis</i>	1	6	1	<i>Nephtys incisa</i>	2	124
2	<i>Streblospio benedicti</i>	2	1	1	<i>Mulinia lateralis</i>	3	67
2	<i>Cirratulidae</i>	1	1				
2	<i>Crepidula plana</i>	2	9	2	<i>Nephtys incisa</i>	2	197
2	<i>Nassarius trivittatus</i>	2	449	2	<i>Mulinia lateralis</i>	4	31
2	<i>Balanus improvisus</i>	7	22		<b>Station 50</b>		
2	<i>Diastylis polita</i>	1	1	1	<i>Nephtys incisa</i>	1	.
2	<i>Oxyurostylis smithi</i>	1	.	1	<i>Mulinia lateralis</i>	2	.
	<b>Station 43</b>			2	<i>Nephtys incisa</i>	1	.
2	<i>Leitoscoloplos acutus</i>	1	1				
2	<i>Polydora ligni</i>	1	1	2	<i>Mulinia lateralis</i>	7	.
2	<i>Nassarius trivittatus</i>	1	285	2	<i>Mercenaria mercenaria</i>	1	.
2	<i>Tellina agilis</i>	2	51		<b>Station 51</b>		
2	<i>Edotea triloba</i>	1	1	1	<i>Nereis succinea</i>	1	17
	<b>Station 44</b>			1	<i>Glycera americana</i>	1	12
1	<i>Mercenaria mercenaria</i>	1	.	1	<i>Polydora ligni</i>	1	7
1	<i>Mya arenaria</i>	1	.	1	<i>Streblospio benedicti</i>	3	2
				1	<i>Tharyx acutus</i>	1	1
2	<i>Nephtys incisa</i>	1	40	1	<i>Pectinaria gouldii</i>	2	21
2	<i>Pectinaria gouldii</i>	1	3	1	<i>Crepidula convexa</i>	4	103
2	<i>Mercenaria mercenaria</i>	1	1	1	<i>Crepidula plana</i>	1	10
	<b>Station 45</b>			1	<i>Mulinia lateralis</i>	30	386
1	<i>Glycera dibranchiata</i>	1	1545	1	<i>Tellina agilis</i>	1	38
1	<i>Mya arenaria</i>	1	584	1	<i>Mercenaria mercenaria</i>	2	22
				1	<i>Pagurus longicarpus</i>	4	2857
2	<i>Prosuberites epiphytum</i>	1	.				
2	<i>Nereis succinea</i>	5	308	2	<i>Glycera dibranchiata</i>	1	736
2	<i>Nephtys incisa</i>	1	47	2	<i>Sabellaria vulgaris</i>	1	2
2	<i>Pectinaria gouldii</i>	2	24	2	<i>Pectinaria gouldii</i>	3	123
2	<i>Mulinia lateralis</i>	1	781	2	<i>Mulinia lateralis</i>	1	19
2	<i>Mya arenaria</i>	1	318	2	<i>Mercenaria mercenaria</i>	1	52400
2	<i>Balanus improvisus</i>	2	.				

## Species Listing for Raritan Bay, January/February 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
2	<i>Crangon septemspinosa</i>	1	125	2	<i>Crangon septemspinosa</i>	1	382
2	<i>Pagurus longicarpus</i>	3	2361				
	<b>Station 52</b>				<b>Station 67</b>		
1	<i>Nephtys incisa</i>	2	125	1	<i>Pectinaria gouldii</i>	1	14
1	<i>Mulinia lateralis</i>	2	27	1	<i>Mulinia lateralis</i>	3	468
2	<i>Nephtys incisa</i>	1	122	2	<i>Pectinaria gouldii</i>	1	55
2	<i>Mulinia lateralis</i>	1	98	2	<i>Mulinia lateralis</i>	57	8266
	<b>Station 55</b>			2	<i>Mya arenaria</i>	2	1118
1	<i>Metridium senile</i>	2	28		<b>Station 68</b>		
1	<i>Nereis succinea</i>	1	23	1	<i>Hydrozoa</i>	1	.
1	<i>Pectinaria gouldii</i>	1	11	1	<i>Eumida sanguinea</i>	1	1
1	<i>Balanus improvisus</i>	68	.	1	<i>Glycera dibranchiata</i>	1	1083
	<b>Station 56</b>			1	<i>Streblospio benedicti</i>	1	3
2	<i>Nephtys incisa</i>	2	101	1	<i>Pherusa affinis</i>	1	19
	<b>Station 57</b>			1	<i>Oligochaeta</i>	1	1
1	<i>Nereis succinea</i>	2	.	1	<i>Nassarius trivittatus</i>	3	744
1	<i>Glycera americana</i>	1	11	1	<i>Edotea triloba</i>	6	9
1	<i>Crangon septemspinosa</i>	1	6	1	<i>Unciola serrata</i>	2	10
2	<i>Nephtys incisa</i>	1	220	2	<i>Eteone heteropoda</i>	1	2
2	<i>Neomysis americana</i>	1	4	2	<i>Nereis succinea</i>	2	15
	<b>Station 58</b>			2	<i>Streblospio benedicti</i>	4	2
1	<i>Actiniaria</i>	2	252	2	<i>Capitella capitata</i>	2	2
1	<i>Nereis succinea</i>	1	35	2	<i>Asabellides oculata</i>	2	3
1	<i>Mya arenaria</i>	1	1450	2	<i>Oligochaeta</i>	8	4
1	<i>Balanus improvisus</i>	7	.	2	<i>Nassarius trivittatus</i>	21	6516
	<b>Station 62</b>			2	<i>Mulinia lateralis</i>	1	9
1	<i>Leptochelia savignyi</i>	1	2	2	<i>Tellina agilis</i>	2	11
1	<i>Crangon septemspinosa</i>	1	253		<b>Station 69</b>		
2	<i>Nassarius trivittatus</i>	1	527	1	<i>Streblospio benedicti</i>	7	5
	<b>Station 66</b>			1	<i>Tellina agilis</i>	19	100
1	<i>Metridium senile</i>	19	35	2	<i>Rhynchocoela</i>	2	28
1	<i>Nereis succinea</i>	21	642	2	<i>Nephtys picta</i>	1	39
1	<i>Polydora ligni</i>	1	1	2	<i>Glycera americana</i>	1	3
1	<i>Streblospio benedicti</i>	12	4	2	<i>Streblospio benedicti</i>	6	4
1	<i>Pectinaria gouldii</i>	1	1	2	<i>Nassarius trivittatus</i>	1	30
1	<i>Oligochaeta</i>	25	9	2	<i>Tellina agilis</i>	42	286
1	<i>Balanus improvisus</i>	52	932	2	<i>Protohaustorius c.f. deichmannae</i>	1	1
1	<i>Neopanope texana sayi</i>	24	.		<b>Station 70</b>		
2	<i>Metridium senile</i>	17	82	1	<i>Nephtys picta</i>	10	35
2	<i>Turbellarian sp.</i>	1	7	1	<i>Lumbrineris acicularum</i>	1	16
2	<i>Nereis succinea</i>	3	171	1	<i>Tellina agilis</i>	3	10
2	<i>Streblospio benedicti</i>	4	2	2	<i>Eumida sanguinea</i>	2	1
2	<i>Peloscolex intermedius</i>	3	2	2	<i>Nephtys picta</i>	5	11
2	<i>Balanus improvisus</i>	1	14	2	<i>Lumbrineris sp. (frag)</i>	1	1
				2	<i>Acesta nolani</i>	3	1
				2	<i>Spiophanes bombyx</i>	1	1

## Species Listing for Raritan Bay, January/February 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
<b>Station 71</b>							
1	Rhynchocoela	4	24	2	Polydora ligni	2	4
1	Nephtys picta	12	116	2	Heteromastus filiformis	7	42
1	Acesta nolani	1	1	2	Pectinaria gouldii	2	144
1	Nassarius trivittatus	2	37	2	Mulinia lateralis	1	16
1	Tellina agilis	4	28	2	Ensis directus	1	120
1	Protohaustorius c.f. deichmannae			2	Tellina agilis	2	2
		16	17	2	Mercenaria mercenaria	2	15
2	Rhynchocoela	3	18	<b>Station 86</b>			
2	Nephtys picta	6	59	1	Glycera americana	1	53
2	Magelona rosea	2	11	1	Pectinaria gouldii	1	12
2	Spisula solidissima	3	9	1	Mulinia lateralis	5	8
2	Tellina agilis	11	67				
2	Oxyurostylis smithi	1	1	2	Pectinaria gouldii	1	13
2	Edotea triloba	1	.	2	Peloscolex sp.	1	1
2	Rhepoxynius hudsoni	1	3	2	Mulinia lateralis	1	26
<b>Station 73</b>							
1	Mulinia lateralis	1	41	<b>Station 87</b>			
				1	Mulinia lateralis	31	492
<b>Station 85</b>				2	Nephtys incisa	1	100
1	Rhynchocoela	1	2				
1	Glycera americana	1	116	<b>Station 88</b>			
1	Heteromastus filiformis	2	21	1	Pectinaria gouldii	1	68
1	Nassarius trivittatus	3	485	1	Mulinia lateralis	1	9
1	Mulinia lateralis	5	60				
1	Mercenaria mercenaria	16	237	2	Metridium senile	1	2
2	Hydrozoa	1	1	2	Nephtys incisa	1	53
2	Glycera americana	2	110	2	Pectinaria gouldii	3	112
				2	Mulinia lateralis	34	585
				2	Mercenaria mercenaria	2	.

## Species listing for Raritan Bay, April/May 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
<b>Station 13</b>				<b>Station 14</b>			
1	Rhynchocoela	1		1	Nephtys incisa		2
1	Microphthalmus aberrans	4		1	Asychis elongata		1
1	Hemipodus roseus	1		1	Nassarius trivittatus		1
1	Orbinia swani	1		1	Turbonilla sp.		7
1	Spio sp.	1		1	Mytilus edulis		1
1	Mytilus edulis	37		1	Mulinia lateralis		22
1	Microdeutopus gryllotalpa	1		<b>Station 15</b>			
1	Gammarus lawrencianus	6		1	Nematoda		2
1	Rhepoxynius hudsoni	1		1	Spionidae		1
2	Rhynchocoela	1		1	Asychis elongata		2
2	Nereis acuminata	1		1	Oligochaeta		2
2	Nephtys picta	1		1	Nassarius trivittatus		1
2	Glycera dibranchiata	1		1	Mulinia lateralis		2
2	Capitella capitata	1		1	Mercenaria mercenaria		3
2	Mytilus edulis	20					
2	Tellina agilis	2		2	Nephtys incisa		1
2	Rhepoxynius hudsoni	5		2	Peloscolex gabriellae		7

## Species listing for Raritan Bay, April/May 1973

Grab	Species	Count	Grab	Species	Count
2	<i>Nassarius trivittatus</i>	1		<b>Station 50</b>	
2	<i>Mytilus edulis</i>	2	1	<i>Pectinaria gouldii</i>	1
2	<i>Mulinia lateralis</i>	1			
	<b>Station 16</b>		2	<i>Nephtys incisa</i>	3
1	<i>Nephtys incisa</i>	4	2	<i>Pectinaria gouldii</i>	1
1	<i>Turbonilla</i> sp.	5	2	<i>Crepidula convexa</i>	1
1	<i>Mytilus edulis</i>	2	2	<i>Mulinia lateralis</i>	2
1	<i>Mulinia lateralis</i>	17			
			5	<i>Streblospio benedicti</i>	6
2	<i>Nephtys incisa</i>	2	5	<i>Nassarius trivittatus</i>	1
2	<i>Mytilus edulis</i>	1	5	<i>Mytilus edulis</i>	1
2	<i>Mulinia lateralis</i>	12	5	<i>Mercenaria mercenaria</i>	2
2	<i>Neomysis americana</i>	1		<b>Station 51</b>	
4	<i>Nephtys incisa</i>	1	2	<i>Glycera americana</i>	1
4	<i>Spio filicornis</i>	1	2	<i>Scolecopides viridis</i>	1
4	<i>Asychis elongata</i>	2	2	<i>Spio filicornis</i>	24
4	<i>Turbonilla</i> sp.	6	2	<i>Streblospio benedicti</i>	3
4	<i>Mytilus edulis</i>	1	2	<i>Oligochaeta</i>	1
4	<i>Mulinia lateralis</i>	14	2	<i>Mulinia lateralis</i>	3
5	<i>Nephtys incisa</i>	3			
5	<i>Mulinia lateralis</i>	6	3	<i>Nematoda</i>	1
	<b>Station 17</b>		3	<i>Nereis acuminata</i>	1
1	<i>Nephtys incisa</i>	3	3	<i>Glycera americana</i>	3
1	<i>Mulinia lateralis</i>	3	3	<i>Spio filicornis</i>	2
2	<i>Nassarius trivittatus</i>	1	3	<i>Streblospio benedicti</i>	6
2	<i>Mytilus edulis</i>	2	3	<i>Mulinia lateralis</i>	9
2	<i>Spisula solidissima</i>	11	3	<i>Tellina agilis</i>	1
	<b>Station 23</b>				
1	<i>Nephtys incisa</i>	4	4	<i>Lumbrineris tenuis</i>	1
1	<i>Mulinia lateralis</i>	1	4	<i>Spio filicornis</i>	6
			4	<i>Streblospio benedicti</i>	7
2	<i>Nephtys bucera</i>	3	4	<i>Sabellaria vulgaris</i>	1
	<b>Station 24</b>		4	<i>Pectinaria gouldii</i>	1
1	<i>Nephtys incisa</i>	1	4	<i>Crepidula convexa</i>	1
1	<i>Streblospio benedicti</i>	1	4	<i>Mulinia lateralis</i>	9
1	<i>Nassarius trivittatus</i>	1			
1	<i>Mytilus edulis</i>	2	5	<i>Hydrozoa</i>	1
1	<i>Mulinia lateralis</i>	4	5	<i>Spio filicornis</i>	7
			5	<i>Streblospio benedicti</i>	7
2	<i>Nephtys incisa</i>	1	5	<i>Mulinia lateralis</i>	9
2	<i>Glycera dibranchiata</i>	1	5	<i>Tellina agilis</i>	1
2	<i>Mulinia lateralis</i>	4	5	<i>Balanus improvisus</i>	1
			5	<i>Crangon septemspinosa</i>	2
	<b>Station 49</b>			<b>Station 73</b>	
1	<i>Nephtys incisa</i>	2	2	<i>Pectinaria gouldii</i>	2
1	<i>Nassarius trivittatus</i>	1	2	<i>Peloscolex gabriellae</i>	3
			2	<i>Mulinia lateralis</i>	1
2	<i>Nephtys incisa</i>	2			
2	<i>Mulinia lateralis</i>	1	3	<i>Peloscolex gabriellae</i>	8
			3	<i>Nassarius trivittatus</i>	1
			3	<i>Mytilus edulis</i>	1

Grab	Species	Count	Grab	Species	Count
3	<i>Mulinia lateralis</i>	6	3	<i>Turbonilla</i> sp.	18
4	<i>Pectinaria gouldii</i>	1	3	<i>Mytilus edulis</i>	2
4	<i>Nassarius trivittatus</i>	1	3	<i>Mulinia lateralis</i>	4
4	<i>Mulinia lateralis</i>	5	3	<i>Tellina agilis</i>	2
5	<i>Streblospio benedicti</i>	1	3	<i>Mercenaria mercenaria</i>	31
5	<i>Pectinaria gouldii</i>	3	3	<i>Edotea triloba</i>	1
5	<i>Crepidula fornicata</i>	1	4	<i>Glycera dibranchiata</i>	1
5	<i>Nassarius trivittatus</i>	7	4	<i>Polydora ligni</i>	1
5	<i>Ampelisca abdita</i>	1	4	<i>Pectinaria gouldii</i>	2
	<b>Station 85</b>		4	<i>Nassarius trivittatus</i>	4
1	<i>Glycera americana</i>	2	4	<i>Turbonilla</i> sp.	1
1	<i>Streblospio benedicti</i>	3	4	<i>Mytilus edulis</i>	2
1	<i>Asychis elongata</i>	1	4	<i>Mulinia lateralis</i>	4
1	<i>Pectinaria gouldii</i>	2	4	<i>Ensis directus</i>	1
1	<i>Mulinia lateralis</i>	10	4	<i>Mercenaria mercenaria</i>	7
1	<i>Ensis directus</i>	1	5	<i>Nephtys incisa</i>	1
1	<i>Tellina agilis</i>	1	5	<i>Glycera americana</i>	1
1	<i>Mercenaria mercenaria</i>	18	5	<i>Polydora ligni</i>	3
1	<i>Pagurus longicarpus</i>	6	5	<i>Cirriformia grandis</i>	1
1	<i>Asterias forbesi</i>	2	5	<i>Pectinaria gouldii</i>	1
2	<i>Nematoda</i>	2	5	<i>Nassarius trivittatus</i>	1
2	<i>Phyllodoce</i> sp.	4	5	<i>Turbonilla</i> sp.	1
2	<i>Nereis succinea</i>	1	5	<i>Mytilus edulis</i>	2
2	<i>Glycera americana</i>	4	5	<i>Mulinia lateralis</i>	2
2	<i>Diopatra cuprea</i>	1	5	<i>Tellina agilis</i>	1
2	<i>Polydora ligni</i>	14	5	<i>Mercenaria mercenaria</i>	24
2	<i>Spio filicornis</i>	1	5	<i>Chiridotea almyra</i>	1
2	<i>Streblospio benedicti</i>	19	5	<i>Pagurus longicarpus</i>	2
2	<i>Tharyx acutus</i>	9		<b>Station 86</b>	
2	<i>Pectinaria gouldii</i>	1	1	<i>Asychis elongata</i>	1
2	<i>Oligochaeta</i>	1	1	<i>Pectinaria gouldii</i>	2
2	<i>Nassarius trivittatus</i>	7	1	<i>Mulinia lateralis</i>	8
2	<i>Mytilus edulis</i>	2	1	<i>Gammarus lawrencianus</i>	1
2	<i>Mulinia lateralis</i>	9	3	<i>Heteromastus filiformis</i>	2
2	<i>Tellina agilis</i>	1	3	<i>Pectinaria gouldii</i>	3
2	<i>Mercenaria mercenaria</i>	51	3	<i>Peloscolex gabriellae</i>	4
2	<i>Petricola pholadiformis</i>	1	3	<i>Nassarius trivittatus</i>	1
2	<i>Edotea triloba</i>	2	3	<i>Mulinia lateralis</i>	20
2	<i>Unciola</i> sp.	1	3	<i>Melita nitida</i>	1
2	<i>Pagurus longicarpus</i>	9	5	<i>Asychis elongata</i>	2
3	<i>Nematoda</i>	5	5	<i>Pectinaria gouldii</i>	1
3	<i>Glycera americana</i>	2	5	<i>Mulinia lateralis</i>	10
3	<i>Diopatra cuprea</i>	1		<b>Station 87</b>	
3	<i>Polydora ligni</i>	1	1	<i>Cirriformia grandis</i>	1
3	<i>Tharyx acutus</i>	2	1	<i>Mulinia lateralis</i>	23
3	<i>Pectinaria gouldii</i>	1	2	<i>Spio filicornis</i>	1
3	<i>Nassarius trivittatus</i>	13	2	<i>Mulinia lateralis</i>	10
3	<i>Odostomia</i> sp.	1			

## Species listing for Raritan Bay, April/May 1973

Grab	Species	Weight	Grab	Species	Weight
3	<i>Nephtys incisa</i>	2	2	<i>Balanus improvisus</i>	10
3	<i>Mulinia lateralis</i>	22			
4	<i>Mulinia lateralis</i>	24	3	<i>Glycera americana</i>	1
5	<i>Nephtys incisa</i>	1	3	<i>Pectinaria gouldii</i>	3
5	<i>Mulinia lateralis</i>	31	3	<i>Oligochaeta</i>	1
			3	<i>Mulinia lateralis</i>	18
			3	<i>Mercenaria mercenaria</i>	1
			3	<i>Balanus improvisus</i>	1
			3	<i>Edotea triloba</i>	1
	<b>Station 88</b>				
1	<i>Harmothoe extenuata</i>	2	4	Nematoda	2
1	<i>Eteone heteropoda</i>	1	4	<i>Nereis succinea</i>	1
1	<i>Nereis succinea</i>	3	4	<i>Spio filicornis</i>	1
1	<i>Glycera americana</i>	1	4	<i>Heteromastus filiformis</i>	1
1	<i>Polydora ligni</i>	10	4	Ampharetidae	1
1	<i>Heteromastus filiformis</i>	1	4	<i>Oligochaeta</i>	3
1	<i>Sabellaria vulgaris</i>	3	4	<i>Nassarius trivittatus</i>	1
1	<i>Pectinaria gouldii</i>	2	4	<i>Mulinia lateralis</i>	24
1	<i>Nassarius trivittatus</i>	3	4	<i>Mercenaria mercenaria</i>	1
1	<i>Mytilus edulis</i>	8			
1	<i>Mulinia lateralis</i>	28	5	Nematoda	47
1	<i>Mercenaria mercenaria</i>	1	5	<i>Nereis zonata</i>	1
1	<i>Balanus improvisus</i>	4	5	<i>Glycera americana</i>	3
1	<i>Unciola serrata</i>	1	5	<i>Polydora ligni</i>	5
1	<i>Melita nitida</i>	2	5	<i>Spio filicornis</i>	2
1	<i>Neopanope texana sayi</i>	1	5	<i>Streblospio benedicti</i>	1
			5	<i>Tharyx acutus</i>	1
2	<i>Nereis grayi</i>	1	5	<i>Heteromastus filiformis</i>	3
2	<i>Spio filicornis</i>	1	5	<i>Pectinaria gouldii</i>	4
2	<i>Spiophanes bombyx</i>	1	5	<i>Oligochaeta</i>	2
2	<i>Streblospio benedicti</i>	1	5	<i>Crepidula convexa</i>	1
2	<i>Pectinaria gouldii</i>	1	5	<i>Nassarius trivittatus</i>	2
2	<i>Crepidula fornicata</i>	1	5	<i>Mytilus edulis</i>	2
2	<i>Nassarius trivittatus</i>	2	5	<i>Mulinia lateralis</i>	36
2	<i>Mytilus edulis</i>	2	5	<i>Mercenaria mercenaria</i>	1
2	<i>Mulinia lateralis</i>	20	5	<i>Balanus improvisus</i>	4

## Species listing for Raritan Bay, July 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
	<b>Station 3</b>				<b>Station 13</b>		
1	<i>Nephtys bucera</i>	3	10	1	<i>Rhynchozoela</i>	4	11
1	<i>Nephtys incisa</i>	1	3	1	<i>Microphthalmus aberrans</i>	74	.
1	<i>Glycera americana</i>	7	171	1	<i>Nephtys bucera</i>	12	.
1	<i>Drilonereis longa</i>	2	27	1	<i>Glycera americana</i>	4	.
1	<i>Polydora ligni</i>	30	20	1	<i>Glycera dibranchiata</i>	1	.
1	<i>Spio filicornis</i>	135	281	1	<i>Hemipodus roseus</i>	1	.
1	<i>Streblospio benedicti</i>	13	1	1	<i>Goniadella gracilis</i>	2	.
1	<i>Heteromastus filiformis</i>	1	1	1	<i>Lumbrineris acicularum</i>	1	259
1	<i>Tellina agilis</i>	11	138	1	<i>Aricidea (Acesta) catherinae</i>	1	.
1	<i>Mercenaria mercenaria</i>	2	365000	1	<i>Oligochaeta</i>	3	.
1	<i>Mya arenaria</i>	1	232	1	<i>Mytilus edulis</i>	5	77
1	<i>Balanus improvisus</i>	1	2	1	<i>Spisula solidissima</i>	3	.
1	<i>Electra crustulenta</i>	466	.	1	<i>Tellina agilis</i>	18	476

## Species listing for Raritan Bay, July 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
1	Rhepoxynius hudsoni	3	14		<b>Station 17</b>		
1	Cancer irroratus	1	48	1	Nephtys incisa	2	249
2	Rhynchocoela	5	18	1	Nassarius trivittatus	1	265
2	Nematoda	2	1	1	Mulinia lateralis	12	300
2	Nephtys bucera	13	120	1	Neomysis americana	2	1
2	Spiophanes bombyx	1	1	2	Nephtys bucera	1	1
2	Tellina agilis	30	917	2	Mulinia lateralis	15	180
2	Harpinia propinqua	20	55		<b>Station 23</b>		
2	Paraphoxus spinosus	3	3	2	Nematoda	12	2
2	Rhepoxynius hudsoni	21	26	2	Nephtys incisa	1	13
2	Crangon septemspinosa	2	140	2	Mulinia lateralis	53	2306
	<b>Station 14</b>			2	Ensis directus	2	213
1	Polydora ligni	1	1	2	Mercenaria mercenaria	1	110000
1	Pectinaria gouldii	1	65		<b>Station 24</b>		
1	Mulinia lateralis	1	24	1	Nephtys incisa	2	195
1	Tellina agilis	3	2	1	Mulinia lateralis	18	5102
1	Mercenaria mercenaria	1	110000	1	Crangon septemspinosa	1	23
1	Neomysis americana	3	1	2	Nephtys incisa	1	82
1	Crangon septemspinosa	2	45	2	Mulinia lateralis	11	3321
	<b>Station 15</b>			2	Tellina agilis	2	365
1	Nephtys incisa	2	78	2	Neomysis americana	1	1
1	Streblospio benedicti	16	1		<b>Station 49</b>		
1	Asychis elongata	1	98	1	Nephtys incisa	3	201
1	Peloscolex gabriellae	13	1	1	Mulinia lateralis	8	2520
	<b>Station 16</b>			2	Nephtys incisa	5	734
1	Nassarius trivittatus	1	267	2	Mulinia lateralis	5	3078
1	Mulinia lateralis	5	450	2	Neomysis americana	1	7
1	Neomysis americana	1	1	2	Crangon septemspinosa	1	310
2	Nephtys incisa	1	3		<b>Station 50</b>		
2	Mulinia lateralis	5	554	1	Nephtys incisa	2	372
2	Neomysis americana	2	3	1	Glycera americana	1	97
2	Crangon septemspinosa	1	48	1	Mulinia lateralis	6	2021
3	Nephtys incisa	2	170	1	Mercenaria mercenaria	1	16000
3	Asychis elongata	1	217	2	Nephtys incisa	1	1
3	Turbonilla sp.	1	.	2	Streblospio benedicti	1	1
3	Mytilus edulis	1	1	2	Mulinia lateralis	5	1916
3	Mulinia lateralis	5	2003	2	Tellina agilis	1	2
4	Asychis elongata	1	192	4	Eteone heteropoda	1	1
4	Mytilus edulis	1	1	4	Nephtys incisa	2	153
4	Mulinia lateralis	1	217	4	Spio filicornis	1	1
5	Nephtys incisa	1	24	4	Nassarius trivittatus	1	21
5	Asychis elongata	1	10	4	Mytilus edulis	1	2
5	Mytilus edulis	1	1	4	Mulinia lateralis	7	1912
5	Mulinia lateralis	1	156	4	Crangon septemspinosa	1	3
5	Neomysis americana	1	1				



## Species listing for Raritan Bay, July 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
<b>Station 51</b>							
1	Nematoda	230	2	5	Nassarius trivittatus	2	407
1	Eteone heteropoda	2	1	5	Mulinia lateralis	1	264
1	Polydora ligni	184	98	5	Tellina agilis	1	9
1	Spio filicornis	142	164	5	Crangon septemspinosa	3	309
1	Streblospio benedicti	3	1	<b>Station 58</b>			
1	Tharyx acutus	1	1	1	Eteone heteropoda	47	35
1	Heteromastus filiformis	1	2	1	Nereis succinea	2	16
1	Sabellaria vulgaris	1	7	1	Polydora ligni	254	74
1	Oligochaeta	4	1	1	Streblospio benedicti	248	38
1	Nassarius trivittatus	1	217	1	Pectinaria gouldii	2	1
1	Mulinia lateralis	2	256	1	Oligochaeta	9	1
1	Tellina agilis	4	14	1	Spisula solidissima	5	17
1	Mercenaria mercenaria	2	170000	1	Mya arenaria	32	716
1	Crangon septemspinosa	1	2	1	Neomysis americana	5	5
2	Eteone heteropoda	1	1	1	Gammarus lawrencianus	1	9
2	Glycera americana	1	59	<b>Station 69</b>			
2	Polydora ligni	180	39	2	Metridium senile	4	1188
2	Spio filicornis	128	63	2	Nematoda	59	2
2	Spiophanes bombyx	3	1	2	Eteone heteropoda	5	4
2	Streblospio benedicti	1	1	2	Nereis succinea	2	6
2	Nassarius trivittatus	2	772	2	Nephtys bucera	3	15
2	Mulinia lateralis	1	77	2	Polydora ligni	57	47
2	Crangon septemspinosa	1	53	2	Spio filicornis	385	492
2	Pagurus longicarpus	1	130	2	Spiophanes bombyx	19	23
3	Eteone heteropoda	1	.	2	Streblospio benedicti	9	3
3	Glycera americana	1	.	2	Pherusa affinis	2	29
3	Polydora ligni	561	.	2	Capitella capitata	1	1
3	Spio filicornis	97	.	2	Oligochaeta	2	1
3	Spiophanes bombyx	1	.	2	Lunatia heros	1	11
3	Heteromastus filiformis	1	.	2	Nassarius trivittatus	1	443
3	Asabellides oculata	1	.	2	Mytilus edulis	9	156
3	Oligochaeta	3	.	2	Mulinia lateralis	1	34
3	Nassarius trivittatus	7	.	2	Tellina agilis	27	351
3	Mulinia lateralis	1	.	2	Mercenaria mercenaria	2	9580
3	Tellina agilis	3	.	2	Balanus ebruneus	1	293
3	Mya arenaria	1	.	2	Crangon septemspinosa	2	65
3	Crangon septemspinosa	1	.	2	Cancer irroratus	2	138
4	Glycera americana	3	139	2	Electra crustulenta	1	.
4	Polydora ligni	524	104	<b>Station 73</b>			
4	Spio filicornis	94	35	1	Polydora ligni	4	1
4	Heteromastus filiformis	3	3	1	Streblospio benedicti	50	8
4	Nassarius trivittatus	1	141	1	Asychis elongata	1	284
4	Mulinia lateralis	4	26	1	Oligochaeta	2	1
4	Tellina agilis	3	14	1	Mercenaria mercenaria	1	17000
4	Mercenaria mercenaria	2	.	1	Crangon septemspinosa	1	1
4	Oxyurostylis smithi	1	1	2	Polydora ligni	11	2
4	Crangon septemspinosa	1	88	2	Streblospio benedicti	214	34
5	Drilonereis longa	1	12	2	Oligochaeta	5	1
5	Polydora ligni	94	72	2	Mulinia lateralis	4	659
5	Spio filicornis	14	16	2	Neomysis americana	2	2
5	Oligochaeta	1	2				

## Species listing for Raritan Bay, July 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
3	<i>Polydora ligni</i>	1	4	5	<i>Streblospio benedicti</i>	10	2
3	<i>Streblospio benedicti</i>	16	2	5	<i>Mediomastus ambiseta</i>	1	1
3	<i>Mulinia lateralis</i>	1	227	5	<i>Asychis elongata</i>	1	74
				5	<i>Oligochaeta</i>	6	1
4	<i>Polydora ligni</i>	1	1	5	<i>Ensis directus</i>	3	486
4	<i>Spio filicornis</i>	2	1	5	<i>Tellina agilis</i>	29	75
4	<i>Streblospio benedicti</i>	26	6	5	<i>Mercenaria mercenaria</i>	5	72
4	<i>Heteromastus filiformis</i>	1	1				
4	<i>Asychis elongata</i>	1	395		<b>Station 86</b>		
4	<i>Oligochaeta</i>	6	1	1	<i>Nephtys incisa</i>	3	1214
4	<i>Nucula proxima</i>	3	11	1	<i>Polydora ligni</i>	12	15
				1	<i>Asychis elongata</i>	1	33
5	<i>Nephtys incisa</i>	1	1	1	<i>Oligochaeta</i>	1	1
5	<i>Streblospio benedicti</i>	41	4	1	<i>Nassarius trivittatus</i>	1	167
5	<i>Asabellides oculata</i>	1	1	1	<i>Turbonilla sp.</i>	2	.
5	<i>Nassarius trivittatus</i>	1	223	1	<i>Mulinia lateralis</i>	4	1123
5	<i>Mulinia lateralis</i>	1	170	1	<i>Neomysis americana</i>	1	5
5	<i>Crangon septemspinosus</i>	1	20				
	<b>Station 85</b>			2	<i>Streblospio benedicti</i>	36	5
1	<i>Nematoda</i>	4	2	2	<i>Asychis elongata</i>	1	403
1	<i>Glycera americana</i>	1	135	2	<i>Pectinaria gouldii</i>	1	2
1	<i>Polydora ligni</i>	29	36	2	<i>Oligochaeta</i>	4	1
1	<i>Spio filicornis</i>	11	25	2	<i>Mulinia lateralis</i>	3	995
1	<i>Streblospio benedicti</i>	1	1	2	<i>Neomysis americana</i>	7	23
1	<i>Tharyx acutus</i>	1	1				
1	<i>Asychis elongata</i>	1	184	3	<i>Nephtys incisa</i>	1	155
1	<i>Oligochaeta</i>	3	1	3	<i>Glycera americana</i>	1	185
1	<i>Nassarius trivittatus</i>	9	2040	3	<i>Polydora ligni</i>	17	14
1	<i>Turbonilla sp.</i>	6	.	3	<i>Tharyx acutus</i>	1	1
1	<i>Ensis directus</i>	4	1260	3	<i>Heteromastus filiformis</i>	1	1
1	<i>Tellina agilis</i>	16	127	3	<i>Asychis elongata</i>	3	219
1	<i>Mercenaria mercenaria</i>	1	17	3	<i>Turbonilla sp.</i>	4	.
				3	<i>Mulinia lateralis</i>	1	389
4	<i>Rhynchocoela</i>	1	68	3	<i>Neomysis americana</i>	1	2
4	<i>Nephtys incisa</i>	2	114				
4	<i>Glycera americana</i>	1	4	5	<i>Asychis elongata</i>	1	42
4	<i>Polydora ligni</i>	71	20	5	<i>Neomysis americana</i>	5	3
4	<i>Spio filicornis</i>	19	7				
4	<i>Streblospio benedicti</i>	1	1		<b>Station 87</b>		
4	<i>Asychis elongata</i>	1	69	1	<i>Nephtys incisa</i>	2	.
4	<i>Pectinaria gouldii</i>	1	1	1	<i>Mulinia lateralis</i>	11	1146
4	<i>Oligochaeta</i>	7	1	1	<i>Neomysis americana</i>	3	.
4	<i>Nassarius trivittatus</i>	7	2053	1	<i>Crangon septemspinosus</i>	1	56
4	<i>Mulinia lateralis</i>	2	81	1	<i>Cancer irroratus</i>	2	.
4	<i>Ensis directus</i>	2	277				
4	<i>Tellina agilis</i>	22	82	2	<i>Mulinia lateralis</i>	17	1670
4	<i>Mercenaria mercenaria</i>	5	92	2	<i>Neomysis americana</i>	3	15
4	<i>Unciola irrorata</i>	1	.				
5	<i>Nephtys picta</i>	1	.	4	<i>Nephtys incisa</i>	1	92
5	<i>Glycera americana</i>	1	58	4	<i>Mulinia lateralis</i>	5	690
5	<i>Polydora ligni</i>	111	10	4	<i>Neomysis americana</i>	1	8
5	<i>Spio filicornis</i>	21	1				
				5	<i>Nephtys incisa</i>	2	2
				5	<i>Mulinia lateralis</i>	4	365

## Species listing for Raritan Bay, July 1973

Grab	Species	Count	Weight	Grab	Species	Count	Weight
<b>Station 88</b>							
1	Harmothoe extenuata	1	4	2	Polydora ligni	331	749
1	Nereis succinea	4	84	2	Spio filicornis	20	45
1	Glycera americana	1	16	2	Streblospio benedicti	15	.
1	Polydora ligni	353	552	2	Heteromastus filiformis	2	26
1	Spio filicornis	17	20	2	Pectinaria gouldii	1	3
1	Streblospio benedicti	53	10	2	Oligochaeta	1	1
1	Tharyx acutus	1	1	2	Nassarius trivittatus	1	427
1	Heteromastus filiformis	1	.	2	Turbonilla sp.	2	.
1	Nassarius trivittatus	2	797	2	Mulinia lateralis	3	603
1	Ilyanassa obsoleta	1	1504	2	Tellina agilis	3	2
1	Turbonilla sp.	1	.	2	Mercenaria mercenaria	1	80660
1	Mytilus edulis	9	73700	2	Mya arenaria	3	12
1	Tellina agilis	1	2	2	Balanus improvisus	4	1193
1	Mercenaria mercenaria	1	72283				
1	Mya arenaria	3	79	4	Polydora ligni	177	228
1	Balanus improvisus	193	.	4	Spio filicornis	2	5
1	Neomysis americana	6	21	4	Nassarius trivittatus	5	2035
				4	Mulinia lateralis	2	545
2	Nereis succinea	1	2	4	Mercenaria mercenaria	1	10480
2	Glycera americana	2	162	4	Mya arenaria	13	20
2	Glycera dibranchiata	2	815	4	Crangon septemspinosa	3	42

## Species listing for Raritan Bay, October/November 1973

Grab	Species	Count	Grab	Species	Count
<b>Station 13</b>			<b>Station 17</b>		
2	Rhynchocoela	3	1	Nephtys incisa	5
2	Sigalion arenicola	1	1	Nassarius trivittatus	2
2	Microphthalmus aberrans	4	1	Mulinia lateralis	271
2	Nephtys bucera	2	1	Neomysis americana	1
2	Goniadella gracilis	12	1	Crangon septemspinosa	2
2	Tharyx acutus	3	<b>Station 23</b>		
2	Protodrilus sp.	6	1	Nephtys incisa	1
2	Tellina agilis	1	1	Prionospio cirrifera	1
2	Heteromysis formosa	5	1	Streblospio benedicti	23
2	Unciola irrorata	1	1	Mulinia lateralis	3
2	Gammarus lawrencianus	1	1	Mercenaria mercenaria	1
			1	Crangon septemspinosa	1
<b>Station 15</b>			<b>Station 49</b>		
2	Nephtys incisa	2	1	Nephtys incisa	4
2	Pectinaria gouldii	1	1	Glycera americana	1
2	Nassarius trivittatus	1	1	Acteon punctostriatus	11
2	Acteon punctostriatus	36	1	Mulinia lateralis	45
2	Mulinia lateralis	12			
<b>Station 16</b>			2	Nephtys incisa	4
1	Pectinaria gouldii	1	2	Glycera americana	1
1	Acteon punctostriatus	1	2	Acteon punctostriatus	50
1	Mulinia lateralis	24	2	Mulinia lateralis	91
2	Peloscolex gabriellae	1	2	Crangon septemspinosa	1
2	Gastropoda (juv.)	1			
2	Mulinia lateralis	15			

## Species listing for Raritan Bay, October/November 1973

Grab	Species	Count	Grab	Species	Count
<b>Station 50</b>					
1	<i>Nereis succinea</i>	2	2	<i>Nereis succinea</i>	32
1	<i>Glycera americana</i>	3	2	<i>Polydora ligni</i>	2
1	<i>Polydora ligni</i>	9	2	<i>Streblospio benedicti</i>	116
1	<i>Pectinaria gouldii</i>	16	2	<i>Neopanope texana sayi</i>	2
1	<i>Nassarius trivittatus</i>	3	<b>Station 73</b>		
1	<i>Acteon punctostriatus</i>	65	2	<i>Eteone heteropoda</i>	1
1	<i>Mulinia lateralis</i>	99	2	<i>Nereis succinea</i>	1
2	Nematoda	6	2	<i>Pectinaria gouldii</i>	1
2	<i>Nereis succinea</i>	1	2	<i>Nassarius trivittatus</i>	2
2	<i>Glycera americana</i>	3	2	<i>Acteon punctostriatus</i>	25
2	<i>Polydora ligni</i>	6	2	<i>Mulinia lateralis</i>	13
2	<i>Pectinaria gouldii</i>	16	2	Mysidacea	1
2	<i>Acteon punctostriatus</i>	60	<b>Station 85</b>		
2	<i>Mulinia lateralis</i>	63	1	Nematoda	193
2	<i>Mercenaria mercenaria</i>	2	1	<i>Nephtys caeca</i>	1
<b>Station 51</b>					
1	<i>Glycera americana</i>	3	1	<i>Glycera americana</i>	6
1	<i>Polydora ligni</i>	1	1	<i>Polydora ligni</i>	2
1	<i>Spio filicornis</i>	3	1	<i>Tharyx acutus</i>	11
1	<i>Tharyx acutus</i>	1	1	<i>Heteromastus filiformis</i>	4
1	<i>Heteromastus filiformis</i>	1	1	<i>Mediomastus ambiseta</i>	13
1	<i>Pectinaria gouldii</i>	4	1	<i>Oligochaeta</i>	1
1	<i>Nassarius trivittatus</i>	2	1	<i>Peloscolex gabriellae</i>	79
1	<i>Acteon punctostriatus</i>	43	1	<i>Nassarius trivittatus</i>	4
1	<i>Mulinia lateralis</i>	4	1	<i>Turbonilla sp.</i>	4
1	<i>Tellina agilis</i>	9	1	<i>Acteon punctostriatus</i>	50
1	<i>Mercenaria mercenaria</i>	1	1	<i>Mytilus edulis</i>	10
1	<i>Neomysis americana</i>	1	1	<i>Mulinia lateralis</i>	44
1	<i>Ovalipes ocellatus</i>	1	1	<i>Tellina agilis</i>	26
<b>Station 56</b>					
1	Nematoda	2	1	<i>Mercenaria mercenaria</i>	9
1	<i>Eteone heteropoda</i>	6	1	<i>Edotea triloba</i>	1
1	<i>Paranaitis speciosa</i>	3	1	<i>Elasmopus levis</i>	2
1	<i>Nereis succinea</i>	39	2	Nematoda	13
1	<i>Glycera dibranchiata</i>	1	2	<i>Glycera americana</i>	3
1	<i>Polydora ligni</i>	19	2	<i>Spio filicornis</i>	1
1	<i>Streblospio benedicti</i>	236	2	<i>Tharyx acutus</i>	3
1	<i>Sabellaria vulgaris</i>	1	2	<i>Pectinaria gouldii</i>	1
1	<i>Pectinaria gouldii</i>	2	2	<i>Peloscolex gabriellae</i>	47
1	<i>Oligochaeta</i>	10	2	<i>Nassarius trivittatus</i>	3
1	<i>Crepidula convexa</i>	41	2	<i>Turbonella elegantula</i>	6
1	<i>Crepidula plana</i>	1	2	<i>Acteon punctostriatus</i>	60
1	<i>Balanus improvisus</i>	172	2	<i>Mulinia lateralis</i>	7
1	<i>Neomysis americana</i>	6	2	<i>Tellina agilis</i>	19
1	<i>Elasmopus levi</i>	8	2	<i>Mercenaria mercenaria</i>	5
1	<i>Melita nitida</i>	8	<b>Station 86</b>		
1	<i>Crangon septemspinosa</i>	1	1	<i>Eteone heteropoda</i>	1
1	<i>Neopanope texana sayi</i>	1	1	<i>Nereis succinea</i>	1
<b>Station 66</b>					
2	<i>Metridium senile</i>	6	1	<i>Glycera sp. (juv.)</i>	1
			1	<i>Polydora ligni</i>	12
			1	<i>Scolecopides viridis</i>	1
			1	<i>Heteromastus filiformis</i>	1

## Species listing for Raritan Bay, October/November 1974

Grab	Species	Count	Weight	Grab	Species	Count	Weight
1	<i>Asychis elongata</i>	3		2	<i>Nephtys incisa</i>	1	
1	<i>Pectinaria gouldii</i>	19		2	<i>Mulinia lateralis</i>	12	
1	<i>Oligochaeta</i>	2		2	<i>Tellina agilis</i>	2	
1	<i>Nassarius trivittatus</i>	4					
1	<i>Odostomia</i> sp.	2			<b>Station 88</b>		
1	<i>Acteon punctostriatus</i>	81		1	<i>Pectinaria gouldii</i>	4	
1	<i>Mulinia lateralis</i>	8		1	<i>Acteon punctostriatus</i>	6	
1	<i>Tellina agilis</i>	1		1	<i>Mulinia lateralis</i>	2	
1	<i>Crangon septemspinosa</i>	1		1	<i>Crangon septemspinosa</i>	2	
	<b>Station 87</b>			2	<i>Pectinaria gouldii</i>	1	
1	<i>Nephtys incisa</i>	1		2	<i>Acteon punctostriatus</i>	74	
1	<i>Mulinia lateralis</i>	3		2	<i>Mulinia lateralis</i>	15	

## Species listing for Raritan Bay, February 1974

Grab	Species	Count	Weight	Grab	Species	Count	Weight
	<b>Station 16</b>			2	<i>Spiophanes bombyx</i>	1	1
1	<i>Nephtys incisa</i>	1	45	2	<i>Streblospio benedicti</i>	2	1
1	<i>Mulinia lateralis</i>	2	4	2	<i>Pectinaria gouldii</i>	1	6
4	<i>Nephtys incisa</i>	1	.	2	<i>Spisula solidissima</i>	3	6
4	<i>Turbonilla</i> sp.	1	.	3	<i>Glycera dibranchiata</i>	1	.
4	<i>Acteon punctostriatus</i>	27	.	3	<i>Spio filicornis</i>	6	.
4	<i>Mulinia lateralis</i>	13	.	3	<i>Streblospio benedicti</i>	7	.
5	<i>Nephtys incisa</i>	1	.	3	<i>Heteromastus filiformis</i>	2	.
5	<i>Oligochaeta</i>	1	.	3	<i>Tellina agilis</i>	3	.
5	<i>Acteon punctostriatus</i>	35	.	3	<i>Pagurus longicarpus</i>	1	.
5	<i>Mulinia lateralis</i>	7	.	4	<b>Nematoda</b>	2	1
	<b>Station 50</b>			4	<i>Glycera dibranchiata</i>	2	46
1	<b>Nematoda</b>	3	.	4	<i>Spio filicornis</i>	5	14
1	<i>Heteromastus filiformis</i>	1	.	4	<i>Spiophanes bombyx</i>	3	4
1	<i>Mediomastus ambiseta</i>	1	.	4	<i>Streblospio benedicti</i>	38	8
1	<i>Pectinaria gouldii</i>	3	.	4	<i>Tharyx acutus</i>	1	1
1	<i>Acteon punctostriatus</i>	273	.	4	<i>Tellina agilis</i>	4	86
1	<i>Mytilus edulis</i>	1	.	4	<i>Mercenaria mercenaria</i>	2	15
1	<i>Mulinia lateralis</i>	33	.	5	<b>Nematoda</b>	3	1
	<b>Station 51</b>			5	<i>Glycera dibranchiata</i>	1	33
1	<i>Eteone heteropoda</i>	1	1	5	<i>Spio filicornis</i>	3	10
1	<i>Polydora ligni</i>	1	2	5	<i>Spiophanes bombyx</i>	1	1
1	<i>Spio filicornis</i>	1	4	5	<i>Streblospio benedicti</i>	26	14
1	<i>Spiophanes bombyx</i>	1	1	5	<i>Sabellaria vulgaris</i>	4	10
1	<i>Heteromastus filiformis</i>	1	1	5	<i>Nassarius trivittatus</i>	1	304
1	<i>Nassarius trivittatus</i>	1	575	5	<i>Ovalipes ocellatus</i>	1	20090
1	<i>Tellina agilis</i>	2	47		<b>Station 73</b>		
2	<b>Nematoda</b>	12	.	2	<i>Heteromastus filiformis</i>	1	5
2	<i>Glycera americana</i>	1	1	2	<i>Turbonilla</i> sp.	1	7
2	<i>Scolecopides viridis</i>	1	5	2	<i>Acteon punctostriatus</i>	16	52
2	<i>Spio filicornis</i>	4	12	2	<i>Anadara ovalis</i>	1	87
				2	<i>Mulinia lateralis</i>	6	144

Grab	Species	Count	Weight	Grab	Species	Count	Weight
2	<i>Mercenaria mercenaria</i>	1	79590	3	<i>Polydora ligni</i>	1	2
3	<i>Heteromastus filiformis</i>	1	1	3	<i>Heteromastus filiformis</i>	1	2
3	<i>Ilyanassa obsoleta</i>	1	1873	3	<i>Asychis elongata</i>	1	153
3	<i>Acteon punctostriatus</i>	54	201	3	<i>Pectinaria gouldii</i>	1	12
3	<i>Mytilus edulis</i>	1	1	3	<i>Peloscolex gabriellae</i>	2	1
3	<i>Mulinia lateralis</i>	2	23	3	<i>Mulinia lateralis</i>	1	28
3	<i>Paracaprella tenuis</i>	1	1				
					<b>Station 87</b>		
4	<i>Nereis succinea</i>	1	1	1	<i>Acteon punctostriatus</i>	1	7
4	<i>Heteromastus filiformis</i>	1	3	1	<i>Mulinia lateralis</i>	3	36
4	<i>Oligochaeta</i>	2	1	2	<i>Nassarius trivittatus</i>	1	.
4	<i>Nassarius trivittatus</i>	2	514	2	<i>Acteon punctostriatus</i>	14	.
4	<i>Acteon punctostriatus</i>	4	8	2	<i>Mulinia lateralis</i>	1	.
4	<i>Mulinia lateralis</i>	4	93	3	<i>Nephtys incisa</i>	1	104
5	<i>Peloscolex sp.</i>	4	.	3	<i>Nassarius trivittatus</i>	1	607
5	<i>Acteon punctostriatus</i>	4	.	3	<i>Mulinia lateralis</i>	3	145
5	<i>Mulinia lateralis</i>	4	.				
				4	<i>Acteon punctostriatus</i>	1	3
	<b>Station 85</b>			4	<i>Mulinia lateralis</i>	14	112
1	<i>Nephtys incisa</i>	3	.	5	<i>Nassarius trivittatus</i>	1	.
1	<i>Acteon punctostriatus</i>	4	.	5	<i>Mulinia lateralis</i>	11	.
1	<i>Mytilus edulis</i>	16	.	5	<i>Crangon septemspinosa</i>	1	.
1	<i>Mercenaria mercenaria</i>	1	.				
1	<i>Balanus improvisus</i>	3	.		<b>Station 88</b>		
3	<i>Glycera americana</i>	7	.	1	<i>Metridium senile</i>	44	.
3	<i>Spio filicornis</i>	1	.	1	<i>Nereis succinea</i>	1	.
3	<i>Tharyx acutus</i>	4	.	1	<i>Polydora ligni</i>	7	.
3	<i>Heteromastus filiformis</i>	3	.	1	<i>Spio filicornis</i>	5	.
3	<i>Pectinaria gouldii</i>	2	.	1	<i>Tharyx acutus</i>	9	.
3	<i>Oligochaeta</i>	27	.	1	<i>Sabellaria vulgaris</i>	11	.
3	<i>Nassarius trivittatus</i>	3	.	1	<i>Pectinaria gouldii</i>	19	.
3	<i>Acteon punctostriatus</i>	39	.	1	<i>Oligochaeta</i>	2	.
3	<i>Mytilus edulis</i>	7	.	1	<i>Crepidula convexa</i>	11	.
3	<i>Mulinia lateralis</i>	7	.	1	<i>Crepidula plana</i>	1	.
3	<i>Tellina agilis</i>	25	.	1	<i>Nassarius trivittatus</i>	1	.
3	<i>Mercenaria mercenaria</i>	15	.	1	<i>Acteon punctostriatus</i>	21	.
4	<i>Glycera americana</i>	7	725	1	<i>Spisula solidissima</i>	11	.
4	<i>Spiophanes bombyx</i>	1	2	1	<i>Mulinia lateralis</i>	16	.
4	<i>Heteromastus filiformis</i>	2	7	1	<i>Tellina agilis</i>	6	.
4	<i>Pectinaria gouldii</i>	2	44	1	<i>Mercenaria mercenaria</i>	3	.
4	<i>Nassarius trivittatus</i>	11	4113	1	<i>Balanus improvisus</i>	22	.
4	<i>Mulinia lateralis</i>	5	79	1	<i>Unciola irrorata</i>	1	.
4	<i>Tellina agilis</i>	18	299	1	<i>Cancer irroratus</i>	1	.
4	<i>Mercenaria mercenaria</i>	2	81	2	<i>Metridium senile</i>	6	58
4	<i>Crangon septemspinosa</i>	1	341	2	<i>Nematoda</i>	37	.
				2	<i>Spio filicornis</i>	10	59
	<b>Station 86</b>			2	<i>Streblospio benedicti</i>	86	48
2	<i>Heteromastus filiformis</i>	1	3	2	<i>Tharyx acutus</i>	1	1
2	<i>Turbonilla sp.</i>	1	.	2	<i>Crepidula convexa</i>	3	29
2	<i>Acteon punctostriatus</i>	9	16	2	<i>Spisula solidissima</i>	2	2
2	<i>Mulinia lateralis</i>	3	61	2	<i>Tellina agilis</i>	4	88

Species listing for Raritan Bay, February 1974

Grab	Species	Count	Weight	Grab	Species	Count	Weight
2	<i>Mercenaria mercenaria</i>	1	.	3	<i>Tellina agilis</i>	9	186
2	<i>Balanus improvisus</i>	3	73	3	<i>Limulus polyphemus</i>	1	1
2	<i>Diastylis polita</i>	1	2	3	<i>Edotea triloba</i>	1	3
2	<i>Pagurus longicarpus</i>	3	.	3	<i>Pagurus longicarpus</i>	4	3864
3	<i>Metridium senile</i>	4	28	4	<i>Glycera americana</i>	2	5
3	<i>Lepidonotus squamatus</i>	1	1	4	<i>Heteromastus filiformis</i>	1	3
3	<i>Eteone heteropoda</i>	1	2	4	<i>Pectinaria gouldii</i>	5	168
3	<i>Eumida sanguinea</i>	1	1	4	<i>Crepidula convexa</i>	1	32
3	<i>Nereis succinea</i>	1	1	4	<i>Mulinia lateralis</i>	2	13
3	<i>Glycera dibranchiata</i>	1	57	4	<i>Tellina agilis</i>	1	37
3	<i>Polydora ligni</i>	2	2	5	<i>Glycera dibranchiata</i>	3	73
3	<i>Spio filicornis</i>	4	25	5	<i>Streblospio benedicti</i>	34	14
3	<i>Streblospio benedicti</i>	40	30	5	<i>Scolecopsis sp.</i>	1	1
3	<i>Heteromastus filiformis</i>	1	9	5	<i>Nassarius trivittatus</i>	1	407
3	<i>Crepidula convexa</i>	90	1782	5	<i>Mulinia lateralis</i>	4	31
3	<i>Nassarius trivittatus</i>	1	928	5	<i>Tellina agilis</i>	2	15
3	<i>Mulinia lateralis</i>	1	.	5	<i>Oxyrostylis smithi</i>	1	1