

## ABUNDANCE AND DISTRIBUTION OF BENTHIC MACROINVERTEBRATES

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## INTRODUCTION

Benthos of the Delaware River near Artificial Island has been studied since 1971. Objectives are to estimate species diversity, distribution, density, and biomass, and identify changes in community structure.

## MATERIALS AND METHODS

## Field

Samples were taken at 14 stations on six transects (Table 1, Fig. 1). Water depth and substrate at each station is reported in Table 2.

Samples were taken monthly from February through December. No samples were taken in January due to inclement weather. Although all scheduled stations were sampled in November 1976, these samples have not been processed due to time constraints in the reporting schedule. These samples will be processed and the data will be available for use in future analysis.

All samples were taken during daylight with a Ponar grab sampler (Wildlife Supply Company, Saginaw, Michigan). This gear samples an area  $0.05 \text{ m}^2$  ( $0.0598 \text{ yd}^2$ ) to a depth of approximately 15 cm (6 inches). Each collection consisted of three replicate grabs which were placed in individual labeled plastic bags and fixed with a solution of buffered 4% formaldehyde. Measurements of water temperature, dissolved oxygen, salinity, and pH were taken with each collection with a Yellow Springs Instrument Company Model 51A oxygen analyzer, an American Optical Corporation salinity refractometer Model 10419, and a Photovolt pH meter 126A. All water samples were collected just above the sediment-water interface. Tidal stage and weather conditions were also recorded.

In 1976, 154 collections (462 individual grabs) were taken and 140 were analyzed.

### Laboratory

Each grab sample was washed in a U.S. Standard Sieve No. 35 with 0.5-mm (0.0197-inch) openings. Rose bengal was added to facilitate recovery of organisms which were separated from extraneous material (sand, gravel, detritus, etc.) in enamel pans and preserved in 40% isopropyl alcohol. Specimens in each sample were sorted to the lowest taxon possible and tallied accordingly.

Specimens were prepared for weighing to determine biomass. Molluscs were dissected from their shells, and barnacles were removed from their casts. The terga and scuta of barnacles were kept intact because removal resulted in loss of tissue, especially in small specimens. Organisms were then soaked in distilled water for several hours after which they were dried in tared crucibles at 105 C for a minimum of 12 hours, cooled in a dessicator, and weighed to the nearest 0.1 mg with a Mettler H10 balance.

### Data Reduction

Taxon density (number of individuals per grab) and biomass (mg dry weight per grab) were multiplied by 20 to convert data to a per square meter (1.2 yd<sup>2</sup>) basis.

The Shannon-Weaver diversity index was used to calculate monthly diversities at each station. The equation for this index is

$$D = \sum_{i=1}^s \frac{n_i}{N} \log e \frac{n_i}{N}$$

where  $n_i$  is the number of specimens of species  $i$ ,  $N$  is the total number of specimens and  $s$  is the total number of species.

The Student-Newman-Keuls test (SNK) was used to test density and biomass at each station, using the range as the statistic to measure differences among means ( $P \leq 0.05$ ). The null hypothesis is that the means are equal. The densities of the top five ranking species at each station were also tested ( $P \leq 0.05$ ). Prior to the calculation of the standard error, a measure required by the SNK test, the data were transformed using  $\log (n + 1)$ ,

#### Taxonomic Considerations

In 1976 a continuing effort was made to identify all benthic invertebrates to the lowest taxonomic level. Wherever taxonomic changes relative to previous I.A. reports are made, the previously cited name is referenced. All specimens of Corophium were treated jointly in previous reports as Corophium spp. In 1976 all specimens were identified as Corophium lacustre. Polychaete #2 was identified as Eteone heteropoda in 1976. Specimens of the class Ascidiacea, previously reported in 1972 as tunicates, were identified in 1976 as Molgula manhattensis.

#### RESULTS AND DISCUSSION

##### General Sample Composition

A total of 73 taxa has been collected since 1971 (Table 3). In 1976, 63 taxa were collected; 29 were taken at from one to three stations (Table 4). Diadumene leucolena, Goniadidae, Hypaniola grayi, Congerina leucophaeta, Cassinidea lunifrons, and Tipulidae were each represented by single specimens. Crassostrea virginica and Modiolus demissus were

taken only at T4S2 and T5S2 (gravel-shell substrate). Parahaustorius sp. was collected at T3S1, T3S2, and T7S1 (sand substrate). The remaining 20 taxa were taken infrequently.

Many taxa taken in low numbers near Artificial Island are at the northern limits of their range in the estuary. Glycera dibranchiata, Sabellaria vulgaris, Mulinia lateralis, and Parapleustes sp. were taken in low densities at the southern transects. These are typically more abundant in the Ship John Shoal area several miles south of the S.N.G.S. study area (Connelly et al. 1976); and also at the mouth of Delaware Bay (Kinner et al. 1975).

Organisms taken at all stations in the S.N.G.S. study area in 1976 included Garveia franciscana, Sertularia argentea, Rhynchocoela, Scolecopides viridis, Paranais litoralis, Neomysis americana, Cyathura polita, Gammarus spp., and Monoculodes edwardsi. Annelida, Chiridotea almyra, Corophium lacustre, and Crangon septemspinosus were taken at 13 of 14 stations. Other taxa widely distributed in the study area included Hartlaubella gelatinosa, Nereis succinea, Balanus improvisus, Edotea triloba, and Amathia vidovici.

Organisms collected in 1976 but not taken in 1971-1974 include the Platyhelminthe Euplana gracilis, the polychaetes Sabellaria vulgaris and Hypaniola grayi, members of the class Gastropoda including the family Pyramidellidae and the genus Turbonilla, the nudibranch Doridella obscura, the clams Macoma tenta and Mya arenaria, the amphipod Parapleustes sp. and members of the phylum Ectoprocta including the family Membraniporidae.

## Species Discussion

Paranais litoralis and Polydora sp. ranked within the five most abundant species in density. Balanus improvisus, Scolecoplepides viridis, and Cyathura polita ranked within the five most abundant organisms in density and biomass. The high ranking of these organisms in density and biomass indicates their importance in the community structure. These five species are discussed below.

Balanus improvisus, the acorn barnacle, was the dominant species in density and biomass. Its abundance is directly related to substrate such as gravel and shell, which is suitable for the "setting" or attachment of barnacle larvae. Two stations with this substrate (T5S2 and T4S2) had densities that were significantly ( $P \leq 0.05$ ) higher than all other stations (Table 5). Abundance of barnacle larvae is seasonal and is correlated mainly with temperature (Weiss 1948). Weiss also states that Balanus improvisus breeds between 18 and 27 C. Planktonic Cirripedia larvae numbers peaked on 4 May 1976 (Browne et al. elsewhere in this report). Mean density of attached barnacles increased from 580/m<sup>2</sup> on 17 May to 25,066 on 17 and 18 June. Thorson (1957) stated that B. improvisus begins to settle after about one to two and a half weeks. Assuming that B. improvisus is represented in the Cirripedia larvae, a time lag response of attached barnacle densities to the high densities of Cirripedia in May is indicated.

Paranais litoralis, an oligochaete, ranked second in density and nineteenth in biomass. P. litoralis was found in very low densities at four stations: T3S1, T3S2, T7S1, and T7S2. Densities at these stations were significantly ( $P \leq 0.05$ ) lower than at the remaining 10 stations (Table 5 ). Stations T3S1, T3S2, and T7S1 have sand substrate and T7S2 has a hard clay substrate.

Scolecoides viridis, a polychaete, ranked third in density and second in biomass. Densities at Station T7S2 were significantly ( $P \leq 0.05$ ) lower than at the remaining stations (Table 5 ). Excluding T7S2, this polychaete is well distributed throughout the study area. It was represented in every grab taken at eight stations and was well represented in collections at the others.

Polydora sp., a polychaete, ranked fourth in density and seventeenth in biomass. Densities were significantly ( $P \leq 0.05$ ) higher at T7S2 than at other stations (Table 5).

Cyathura polita, an isopod, ranked fifth in density and in biomass. Densities at T3S1 and T3S2 were significantly ( $P \leq 0.05$ ) lower than at other stations (Table 5).

### Species Diversity

Analysis of species diversity provides a means of detecting changes in community structure. Two components of species diversity are species richness (number of species) and the numbers of individuals in each species. The mean number of species at each station for the year ranged from 8 at T3S2 to 20 at T5S2 (Table 6). Increase in species number at each station was generally correlated with increased salinity. The maximum number of species per station was 29 species, occurring in October at T5S2 (Table 6). This species increase followed the main salinity peak which occurred in September. During this period, simple diversities (the number of species) were generally higher at the southern stations.

Substrate type is also a determining factor in the diversity of a benthic community. Maximum simple diversity occurred at stations with a shell and gravel type substrate. This substrate provides suitable habitat for organisms such as barnacles. Two stations (T5S2 and T4S2) with this type substrate ranked first and second, respectively, in annual mean simple diversity ( $\bar{X} = 20$ ,  $\bar{X} = 19$ ) (Table 6). Generally, stations with a sand substrate had low simple diversities, e.g. stations T3S1 ( $\bar{X} = 9$ ), T3S2 (8), and T7S1 (10). Station T7S2 (hard clay substrate) also had a low simple diversity ( $\bar{X} = 9$ ).

Another measure of diversity is a diversity index. One common index which accounts for both components of species diversity is the Shannon-Weaver index (Shannon and Weaver 1963). This function is recommended by the U.S. Environmental Protection Agency (EPA 1973) for calculating mean diversity. The yearly mean diversity index per station ranged from 0.863 at T7S2 to 1.980 at T5S1 (Table 6). The low diversity index at T7S2 results from the numerical dominance of a polychaete, Polydora sp.

In an estuary, communities are typically under "natural stress" since they must contend with daily and seasonal fluctuations in physicochemical parameters that surround them. Because of this stress, species diversity in this section of the estuary is typically low. Analysis of species diversity will provide a means of detecting additional stress to the benthic communities near S.N.G.S.

#### Density

In 1976, the annual mean density per station ranged from 425.3/m<sup>2</sup> at T3S1 immediately adjacent to S.N.G.S. to 5,959.3/m<sup>2</sup> at T4S2 just south of S.N.G.S. (Table 7). Station T5S2, 4 miles south southeast of S.N.G.S., ranked second with a density of 4,500.7/m<sup>2</sup>. Balanus improvisus was the most abundant organism at both stations (T4S2, 66.7%; T5S2, 39.5%). Organisms taken at these two stations comprised 39.9% of the 1976 sample.

Total density at each station was tested. No stations were significantly different ( $P \leq 0.05$ ) from all other stations (Table 5).

Balanus improvisus ( $\bar{X}$  density = 459.1/m<sup>2</sup>), Paranais litoralis (370.2/m<sup>2</sup>), and Scolecopides viridis (284.6/m<sup>2</sup>) comprised 24.5%, 19.7%, and 15.2%, respectively, of the 1976 sample (Table 8). Other numerically important organisms were Polydora sp., Cyathura pólita, and Corophium lacustre. These six taxa comprised 80.4% of the annual mean density.

Balanus improvisus was the numerically dominant species in June, July, September, and October; Paranais litoralis was in May, August, and December; and Scolecoides viridis was in February and March (Table 9). Other taxa ranking among the first three on a monthly basis were Polydora sp., Corophium lacustre, and Annelida.

#### Biomass

Estimated mean biomass per station ranged from 433.3 mg/m<sup>2</sup> at T3S3 1 3/4 miles west of S.N.G.S. to 7,562.0 mg/m<sup>2</sup> at T4S2 just south of S.N.G.S. (Table 7). Due to the high density of Balanus improvisus the sample at T4S2 comprised 32.3% of the total annual biomass. The organisms taken at T5S2 4 miles southeast of S.N.G.S. comprised 20.7% of the total due to the high biomass of Balanus improvisus and Crassostrea virginica. Biomass at T5S2 and T4S2 was significantly ( $P \leq 0.05$ ) higher than all other stations but not significantly different from each other (Table 5).

Balanus improvisus (509.8 mg/m<sup>2</sup>) comprised 30.5% of the biomass of all taxa taken in 1976 (Table 8). Scolecoides viridis ranked second (353.2 mg/m<sup>2</sup>) with 21.1%, and Crassostrea virginica ranked third (98.9) with 5.9%.

Balanus improvisus accounted for the highest monthly biomass in February, April, September, October, and December (Table 10). Scolecoides viridis ranked first in March, May, June, July, and August. Other taxa ranking among the first three on a monthly basis in 1976 were Macoma balthica, Rhithropanopeus harrisi, Rangia cuneata, Cyathura polita, Modiolus demissus, Crassostrea virginica, Microcionia prolifera, and Oligochaeta #1.

## SEASONAL SUMMARY

Seasonal mean abundance of the major benthos taxa is reported in Table 11. Mean density was greatest in December due to the abundance of Polychaeta (41.8%) and Oligochaeta (29.2%) (Fig. 2). Mean density was lowest from March through May. The high density of polychaetes, many of them post larval, in December followed the peak density of polychaeta eggs and larvae taken in zooplankton samples in November (Browne et al. elsewhere in this report). Polychaeta ranked first during all seasons except June through September (22.6%) when Balanus improvisus (41.5%) was more abundant. Polychaeta ranked second during June through September, and Oligochaeta ranked second during all other seasons.

Mean biomass was greatest in December and lowest during March through May (Fig. 3). Polychaeta ranked first in biomass during March through September, and B. improvisus ranked first during the remaining period. Pelecypoda ranked second in biomass except during February, and June through September.

Table 1. - Location of benthos stations in the vicinity of Artificial Island, Delaware River, and period of sampling. Reference points taken from the U.S. Coast and Geodetic Survey Chart 294.

Location	Year Sampled
<b>Transect 2</b>	
Station 1: Two hundred meters west of New Jersey shore (Eagle Island). On a line between white buoy "B" and a cable tower which is directly east (90 degrees).	1971 to Present
Station 2: Fifty meters west of white buoy "B".	1971 to Present
<b>Transect 7</b>	
Station 1: About 50 meters from shore of Artificial Island on a line from Bayview Lighthouse and red buoy "2R".	1972 to Present
Station 2: Midway between Reedy Island Dike and Delaware River channel on a line between Bayview Lighthouse and red buoy "2R".	1972 to Present
<b>Transect 3</b>	
Station 1: About 50 meters offshore Artificial Island, from a point 300 meters upstream from site of plant discharge.	1971 to Present
Station 2: About 200 meters from red buoy (R"4B") on a line with this buoy and Bayview Lighthouse.	1971 to Present
Station 3: About 200 meters downriver from bell buoy R"2" on a line with light buoy and smoke stacks at Getty Petroleum.	1971 to Present
<b>Transect 4</b>	
Station 1: Sample in cove by sunken ships about 100 meters from north bank and 200 meters from east end of cove.	1971 to Present
Station 2: On a line between Taylors Bridge Light and Stony Point 250 meters from the New Jersey shore.	1971 to Present
Station 3: On a line between Taylors Bridge Light and Stony Point 400 meters from the New Jersey shore.	1971 to Present
<b>Transect 8</b>	
Station 1: Halfway between Hope Creek Jetty and Mad Horse Creek and 100 meters offshore.	1972 to Present
Station 2: Midway between Alder Cove and black buoy "7L".	1972 to Present
<b>Transect 5</b>	
Station 1: 150 meters off small sandy beach in front of Mad Horse Creek Tower.	1971 to Present
Station 2: Midway between Mad Horse Creek Tower and channel buoy "5L".	1971 to Present

Table 2. - Location, depth, substrate, and number of grabs taken at benthos stations in the vicinity of Artificial Island in the Delaware River.

Location	Fish Survey Trawl Zone	Approximate Depth (Mean low water)		Substrate	Number of Grabs
		Meters	Feet		
<b>Transect 2</b>					
Station 1	E-5	1.0	3.5	Very fine sand, clay, and some detritus	33
Station 2	E-5	7.0	24.0	Clay interspersed with medium sand and detritus	33
<b>Transect 3</b>					
Station 1	E-2	4.0	13.0	Fine black sand, some mud, and detritus	33
Station 2	E-2	5.0	20.0	Medium black sand, very little mud, and detritus	33
Station 3	W-1	3.0	10.0	Clay and organic mud, some sand, and moderate detritus	33
<b>Transect 4</b>					
Station 1	E-1	1.0	3.0	Clay, organic mud, and detritus	33
Station 2	E-1	5.0	16.5	Sand, gravel, shell, some mud, and detritus	33
Station 3	E-1	9.0	30.0	Clay and detritus	33
<b>Transect 5</b>					
Station 1	SE-3	1.5	5.0	Hard sandy clay and moderate detritus	33
Station 2	SE-3	5.0	16.5	Sand, gravel, shell, organic mud, and some detritus	33
<b>Transect 7</b>					
Station 1	E-4	4.0	13.0	Fine black sand, some clay, and detritus	33
Station 2	R1E-2	6.5	22.0	Hard clay, very little detritus	33
<b>Transect 8</b>					
Station 1	SE-3	1.5	5.0	Organic mud, detritus, and some sand	33
Station 2	SE-3	4.5	15.0	Organic mud, sand, and some detritus	33

Table 3. - Phylogenetic list of invertebrates collected with a Ponar grab in the Delaware River in the vicinity of Artificial Island, 1971 through 1974 and 1976.

Phylum	Order	Family	Genus	Species	Year of Capture			
Porifera	Poecilosclerida	Microcionidae	Microciona	prolifera (Ellis and Salsander 1735)	1972 - 1974, 1976			
	Class Hydrozoa				1976			
Cnidaria	Athecata	Clavidae	Cordylophora	caspia (Pallas 1771)	1971 - 1973, 1976			
		Bougainvillidae	Garveia	franciscana (Torrey 1822)	1971 - 1974, 1976			
	Thecata	Capsulariidae	Hartlaubella	salairosa (Pallas 1762)	1971 - 1974, 1976			
		Sertulariidae	Sertularia	argentea (Linne 1758)	1971 - 1974, 1976			
	Actiniaria	Diacumenidae		Diacumene	leucolera (Verrill 1861)	1973 - 1974, 1976		
Platyhelminthes	Polycladia	Stylochidae	Stylochus	ellipticus (Girard 1850)	1972 - 1974, 1976			
		Lezoplanidae	Euplana	gracilis (Bush 1864)	1976			
Rhynchocoela					1973 - 1974, 1976			
Aschelminthes	Class Nematoda				1971			
Annelida	Class Polychaeta	Phyllodoctia	Phyllodoctidae	Eteone	heteropoda (Hartman 1951)	1976		
					Heraidae	Leaonereis	culveri (Webster 1879)	1973 - 1974, 1976
				Nereis	succinea (Frey and Leuckart 1847)	1971 - 1974, 1976		
				Glyceridae	Glycera	cibranchiata (Ehlers 1868)	1973 - 1974, 1976	
				Goniadidae		1974, 1976		
	Spionida	Spionidae		Polydora	sp.	1973 - 1974, 1976		
				Scolecoplepides	viridis (Verrill 1873)	1973 - 1974, 1976		
				Streblospio	canedicti (Webster 1878)	1973 - 1974, 1976		
				Sabellariidae	Sabellaria	vulgaris (Verrill 1873)	1976	
				Acetariidae	Hypaniola	grayi (Pettibone 1953)	1976	
	Class Oligochaeta		* * *	* Oligochaeta # 1	Paranais	litoralis (Muller 1784)	1971 - 1974, 1976	
		Class Hirudinea				1971 - 1974		
	Mollusca	Class Gastropoda	Tectibranchia	Pyramidellidae	Turbonilla	sp.	1976	
Rudibranchia				Coranbidae	Doridella	obscura (Verrill 1870)	1974	
Class Pelecypoda		Pterococonchida		Kyllidae	Modiolus	demissus (Dillwyn 1817)	1974, 1976	
					Ostreidae	Crassostrea	virginica (Gmelin 1792)	1971 - 1974, 1976
Heterodontida				Dreissenidae	Congeria	leucophaeta (Conrad 1831)	1972 - 1974, 1976	
					Tellinidae	Macoma	sp.	1976
					Macoma	balthica (Linne 1758)	1971 - 1974, 1976	
					Macoma	tenta (Say 1834)	1976	
				Macridae		1976		
					Mulinia	lateralis (Say 1822)	1974, 1976	
					Rangia	cuneata (Gray 1831)	1971 - 1974, 1976	
				Mysciidae	Mya	arenaria (Linne 1758)	1976	
Arthropoda	Acarina					1971		
	Thoracica			Balanidae	Balanus	improvisus (Darwin 1854)	1971 - 1974, 1976	
					Mysidae	Neomysis	americana (S.L. Smith 1873)	1971 - 1974, 1976
	Mysidacea			Leuconidae	Leucon	americanus (Zimmer 1943)	1972 - 1974, 1976	
	Cunacea			Chiridotidae	Chiridotea	aloyra (Somman 1955)	1971 - 1974, 1976	
	Isopoda				Edotea	triloba (Say 1818)	1971 - 1974, 1976	
				Arcturidae	Cyathura	polita (Stimpson 1855)	1971 - 1974, 1976	
				Sphaeronidae	Cassinidea	lunifrons (Richardson)	1972 - 1973, 1976	
	Anphipoda						1974	
					Protidae	Leptocheirus	plumulosus (Shoemaker 1932)	1971 - 1974, 1976
					Corophiidae	Corophium	lacustre (Vanhoffen 1911)	1971 - 1974, 1976
					Gammaridae	Gammarus	sp.	1971 - 1974, 1976
						Melita	nitida (Smith 1873)	1972 - 1974, 1976
						Parahaustorius	sp.	1973 - 1974, 1976
					Haustoriidae	Monoculodes	edwardsi (Holmes 1905)	1973 - 1974, 1976
					Pleustidae	Parapleustes	sp.	1976
					Cacrellidae		sp.	1972
		Decapoda				Palaemonetes	pugio (Holtius 1949)	1971 - 1974
						Crangonidae	Crangon	septempinosus (Say 1816)
Portunidae	Callinectes					sapidus (Rathbun 1896)	1974, 1976	
Xanthidae	Panopeus					harbstii (H. Milne-Edwards 1834)	1971	
	Rhithropanopeus					harristi (Gould 1841)	1971 - 1974, 1976	
Diptera						1972 - 1973		
			Ticulidae		1972, 1976			
			Chironomidae		1971 - 1974, 1976			
Ectoprocta						1976		
	Class Stenostomata	Vesicularidae	Amathia	vidovici (Heller 1867)	1971 - 1974, 1976			
	Class Cheilostomata	Mesbraniporidae			1976			
Chordata	Pleurogona	Boigulidae	Boigula	manhattensis (DeKay 1843)	1972, 1976			

\* Descriptive name

\* \* Undetermined

Table 4. - Occurrence of taxa at benthos stations in the vicinity of Artificial Island in the Delaware River in 1976.

Transect Station	2		3			4			5		7		8		Date AT
	1	2	1	2	3	1	2	3	1	2	1	2	1	2	
<i>Microciona prolifera</i>	-	X	X	X	-	-	X	X	-	X	X	X	-	X	2/14
Hydrozoa	-	-	-	-	-	-	-	-	X	X	-	-	-	-	2/14
<i>Cordylophora caspia</i>	-	X	X	X	-	-	-	-	-	-	-	-	-	-	3/14
<i>Garveia franciscana</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14/14
<i>Hartlaubella gelatinosa</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	12/14
<i>Sertularia argentea</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14/14
<i>Diadumene leucolela</i>	-	-	-	X	-	-	-	-	-	-	-	-	-	-	1/14
<i>Stylochus ellipticus</i>	-	X	-	-	-	-	X	-	-	X	-	-	-	X	4/14
<i>Euplana gracilis</i>	-	-	-	-	-	-	X	-	-	X	-	-	-	-	3/14
<i>Rhynchocoela</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14/14
Annelida	X	X	X	X	X	X	X	-	X	X	X	X	X	X	13/14
<i>Eteone heteropoda</i>	-	-	-	-	-	-	-	X	X	X	-	-	-	X	4/14
Nereidae	-	-	-	-	-	X	-	-	-	-	-	-	-	-	1/14
<i>Laonereis culveri</i>	-	-	-	-	-	X	-	-	-	-	-	-	-	-	1/14
<i>Nereis succinea</i>	-	X	-	-	X	X	X	X	X	X	X	X	X	X	11/14
<i>Glycera</i> sp.	-	-	-	-	-	-	X	-	-	X	-	-	-	X	3/14
Goniadidae	-	-	-	-	-	-	-	-	X	-	-	-	-	-	1/14
<i>Polydora</i> sp.	-	-	X	X	X	-	X	X	X	X	-	X	X	X	16/14
<i>Scolecopides viridis</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14/14
<i>Streblospio benedicti</i>	-	-	-	-	X	X	X	-	X	X	-	-	X	X	7/14
<i>Sabellaria vulgaris</i>	-	-	-	-	-	-	-	-	-	X	-	-	-	-	1/14
<i>Hypaniola grayi</i>	-	-	-	-	-	-	-	-	-	-	-	-	X	-	1/14
<i>Oligochaeta</i>	X	X	-	-	-	X	-	X	X	X	-	-	X	-	7/14
<i>Oligochaeta</i> #1	-	-	X	X	-	X	X	X	X	X	X	-	X	X	15/14
<i>Paranais litoralis</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14/14
Gastropoda	-	-	-	-	-	-	-	-	X	-	-	-	-	X	2/14
Pyrazidellidae	-	-	-	-	-	-	-	-	X	X	-	-	-	-	2/14
<i>Turbonilla</i> sp.	-	-	-	-	-	-	-	-	X	-	-	-	-	-	1/14
<i>Doridella obscura</i>	-	-	-	-	-	-	X	-	-	X	-	-	-	-	2/14
Pelecypoda	X	-	-	X	-	-	X	-	-	-	-	-	-	-	5/14
<i>Modiolus demissus</i>	-	-	-	-	-	-	X	-	-	X	-	-	-	-	2/14
<i>Crassostrea virginica</i>	-	-	-	-	-	-	X	-	-	X	-	-	-	-	2/14
<i>Congeria leucopheata</i>	-	-	-	-	-	-	X	-	-	-	-	-	-	-	1/14
<i>Macoma</i>	-	-	-	-	-	X	-	-	-	-	-	-	-	-	1/14
<i>Macoma balthica</i>	X	-	-	-	X	X	X	X	X	X	X	-	X	X	15/14
<i>Macoma tentia</i>	-	-	-	-	-	-	-	-	-	X	-	-	X	X	3/14
Macridae	-	-	-	-	-	-	-	-	-	-	-	-	-	X	1/14
<i>Mulinia lateralis</i>	-	-	-	-	-	-	-	-	X	X	-	-	-	X	3/14
<i>Rangia cuneata</i>	X	-	-	-	-	-	-	-	-	X	-	-	X	-	3/14
<i>Nya arenaria</i>	-	-	-	-	-	-	-	-	X	X	-	-	X	X	4/14
<i>Balanus improvisus</i>	-	X	X	X	X	-	X	X	X	X	-	X	X	X	11/14
<i>Neorysis americana</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14/14
<i>Leucon americanus</i>	-	-	X	-	-	X	X	X	X	X	-	-	X	X	3/14
<i>Chironomus alayra</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13/14
<i>Edotea triloba</i>	X	-	X	-	X	X	X	X	X	X	X	X	X	X	12/14
<i>Cyathura polita</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14/14
Cassidinidea	-	-	-	-	-	-	-	-	-	-	X	-	-	-	1/14
<i>Lepidochirus plumulosus</i>	X	X	X	X	-	X	X	-	X	X	-	-	X	X	13/14
<i>Corophium lacustre</i>	X	X	-	X	X	X	X	X	X	X	X	X	X	X	13/14
<i>Gammarus</i> spp.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14/14
<i>Melita nitida</i>	-	-	-	-	-	-	X	-	-	X	-	-	X	X	4/14
<i>Parahastorius</i> sp.	-	-	X	X	-	-	-	-	-	-	X	-	-	-	5/14
<i>Monoculodes edwardsi</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14/14
<i>Parapleustes</i> sp.	-	-	-	-	-	-	-	-	-	X	-	-	-	-	1/14
<i>Crangor septescosinosa</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	-	13/14
<i>Callinectes sapidus</i>	X	-	-	-	-	-	-	-	-	-	-	X	-	-	3/14
<i>Rhithropanopeus harrisi</i>	X	X	-	-	X	-	X	X	X	X	-	X	X	X	15/14
Tipulidae	-	-	X	-	-	-	-	-	-	-	-	-	-	-	1/14
Chironomidae	X	X	-	X	-	X	-	X	-	-	-	-	X	-	5/14
Ectoprocta	-	-	X	-	-	-	X	X	-	X	-	-	-	-	4/14
<i>Amatya viduici</i>	X	X	-	-	X	X	X	X	X	X	-	-	X	X	12/14
Membraniporidae	-	-	-	-	-	-	X	X	X	X	-	-	-	X	4/14
<i>Molgula manhattensis</i>	-	-	-	-	-	-	-	-	-	X	-	-	-	-	1/14
Total taxa	24	24	25	22	24	26	36	29	34	42	22	22	32	34	

Table 5 - Student-Newman-Keuls tests for station differences ( $P = 0.05$ ), based on  $(\log n+1)$  transformed data for the six top ranking species for density and for total biomass and density of all organisms in the vicinity of Artificial Island in 1976.

		<u>Total Biomass</u>													
Station		T7S2	T3S3	T4S3	T3S2	T3S1	T2S1	T4S1	T5S1	T7S1	T2S1	T2S2	T8S2	T5S2	T4S2
Mean		2.43	2.44	2.57	2.61	2.63	2.72	2.74	2.79	2.80	2.86	3.01	3.07	3.48	3.62
		<u>Total Density</u>													
Station		T3S1	T4S1	T7S1	T3S2	T4S3	T3S3	T7S2	T2S2	T8S1	T2S1	T3S1	T8S2	T5S2	T4S2
Mean		2.55	2.69	2.71	2.75	2.77	2.85	2.91	3.05	3.13	3.14	3.21	3.32	3.39	3.59
		<u>Balanus improvisus</u>													
Station		T2S1	T4S1	T7S1	T3S2	T8S1	T7S2	T3S1	T3S3	T4S3	T2S2	T5S1	T8S2	T5S2	T4S2
Mean		0.00	0.00	0.00	0.05	0.09	0.14	0.15	0.26	0.28	0.45	0.90	0.95	1.54	2.87
		<u>Polydora sp.</u>													
Station		T2S1	T2S2	T4S1	T7S1	T3S1	T3S2	T8S2	T4S2	T5S2	T2S1	T5S1	T4S3	T3S3	T7S2
Mean		0.00	0.00	0.00	0.00	0.04	0.04	0.10	0.66	0.66	1.77	1.03	1.29	1.37	2.48
		<u>Scolecoides viridis</u>													
Station		T7S2	T4S3	T3S3	T3S1	T3S2	T2S1	T4S2	T4S1	T8S1	T2S1	T7S1	T2S2	T5S2	T8S2
Mean		0.88	1.60	1.73	1.76	1.88	1.91	1.92	2.01	2.16	2.26	2.30	2.42	2.52	2.82
		<u>Paranais litoralis</u>													
Station		T3S2	T7S2	T3S1	T7S1	T4S3	T3S3	T5S1	T2S2	T4S1	T2S1	T5S2	T4S2	T8S2	T2S1
Mean		0.04	0.04	0.13	0.46	1.19	1.61	1.99	2.01	2.06	2.19	2.43	2.58	2.79	2.94
		<u>Cyathura polita</u>													
Station		T3S3	T3S1	T2S2	T7S1	T4S3	T4S1	T2S1	T7S2	T8S2	T3S3	T4S2	T8S2	T5S2	T3S1
Mean		0.20	0.46	0.88	1.04	1.05	1.16	1.23	1.39	1.67	1.77	1.90	2.05	2.13	2.25
		<u>Corozium lacustre</u>													
Station		T3S1	T3S2	T3S3	T4S1	T7S1	T4S3	T2S1	T8S2	T8S1	T3S2	T7S2	T5S2	T5S1	T4S2
Mean		0.00	0.14	0.10	0.10	0.13	0.17	0.18	0.27	0.46	0.51	0.54	0.59	0.62	1.54

Table 6. - Monthly comparison of the Shannon-Weaver diversity index (D), simple diversity (s), and total specimens (N), taken at Berrus stations in the Artificial Island region of the Delaware River, 1976.

		Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Dec.	Mean
T2S1	s	10	11	13	12	10	9	9	16	12	14	11
	N	1,514	1,619	2,053	1,522	2,108	1,806	667	1,917	428	3,833	1,747
	D	1.184	.980	1.262	1.439	1.025	1.051	1.211	.919	1.476	.857	1.143
T2S2	s	7	7	11	12	10	12	12	10	12	14	11
	N	1,447	1,307	1,454	1,414	1,860	1,634	1,154	675	1,254	1,702	1,378
	D	.902	.464	1.334	1.300	1.150	1.567	1.799	1.503	1.411	1.369	1.279
T3S1	s	9	7	8	8	11	9	5	15	9	9	9
	N	454	301	374	460	720	462	213	555	540	88	427
	D	.992	1.107	1.304	1.606	1.316	1.485	1.242	1.889	1.626	2.110	1.468
T3S2	s	8	11	6	7	10	8	6	8	9	7	8
	N	513	636	673	2,761	1,708	301	520	434	454	453	845
	D	1.137	1.228	.973	.819	.815	1.761	.921	1.066	1.290	.726	1.075
T3S3	s	12	9	8	7	11	7	13	8	12	10	10
	N	961	1,007	1,087	479	768	1,494	1,380	161	631	975	891
	D	1.377	1.213	1.083	1.579	1.357	.492	1.754	1.917	2.103	.968	1.384
T4S1	s	15	12	11	12	10	9	10	11	12	13	12
	N	721	474	575	615	302	307	388	488	475	1,534	588
	D	1.762	1.934	1.364	2.028	1.903	1.749	1.753	1.942	1.918	1.191	1.315
T4S2	s	17	7	20	13	19	22	21	23	24	22	19
	N	5,092	799	2,275	840	9,981	11,654	3,774	10,347	5,395	9,695	5,984
	D	1.428	1.286	1.692	1.723	.363	.581	1.584	1.552	1.563	1.377	1.315
T4S3	s	10	12	9	10	10	9	14	17	15	15	12
	N	385	393	473	408	246	214	608	2,607	1,354	6,869	1,356
	D	1.602	1.732	1.406	1.441	2.109	1.417	1.724	.812	1.120	.583	1.395
T5S1	s	13	15	16	17	12	14	15	20	15	19	15
	N	981	2,856	861	1,410	2,479	782	2,275	2,735	1,147	7,895	2,342
	D	2.163	1.356	1.481	2.057	1.907	2.173	2.375	2.172	2.208	1.911	1.980
T5S2	s	18	11	10	20	25	23	20	21	29	25	20
	N	1,949	846	1,140	3,702	14,763	5,601	1,208	3,176	1,655	9,847	4,512
	D	2.072	1.659	1.483	1.552	.709	1.409	2.389	1.471	2.695	1.867	1.701
T7S1	s	10	10	12	10	14	10	10	7	10	11	10
	N	961	456	979	1,494	588	667	375	141	354	574	661
	D	.661	.892	.888	1.284	1.737	1.164	1.298	1.415	1.426	1.804	1.257
T7S2	s	9	6	7	6	5	11	9	11	8	13	9
	N	1,120	2,627	621	687	1,066	421	1,321	934	1,347	2,172	1,232
	D	1.079	.322	1.128	.654	.335	1.321	.627	1.309	.598	1.260	.863
T8S1	s	15	13	18	13	14	12	15	19	15	17	15
	N	3,821	1,075	2,595	1,561	1,169	560	1,115	1,615	1,257	1,555	1,637
	D	1.865	1.654	1.796	1.652	2.384	1.835	2.195	2.304	2.121	1.462	1.889
T8S2	s	11	10	13	8	16	17	20	15	5	17	14
	N	1,548	2,346	3,647	2,347	5,007	3,749	3,460	855	548	4,467	2,697
	D	1.144	.741	.995	.716	1.501	1.557	1.899	1.979	1.246	.965	1.274

TABLE 7.

BENTHOS ANNUAL RANK BY LOCATION 1976

RANK BY NUMBER	SAMPLING LOCATION	MEAN DENSITY	% FAUNA BY NUMBER	CUMED % BY NUMBER	DRY WEIGHT	% BY WEIGHT	RANK BY WEIGHT
1	14S2	5,959.3	22.706	22.706	7,562.0	32.306	1
2	15S2	4,500.7	17.148	39.854	4,839.2	20.674	2
3	18S2	2,695.3	10.269	50.123	1,729.4	7.386	3
4	15S1	2,338.0	8.908	59.031	811.3	3.466	8
5	12S1	1,746.0	6.652	65.683	1,168.8	4.993	5
6	18S1	1,635.3	6.231	71.914	951.9	4.067	6
7	12S2	1,378.0	5.250	77.164	1,496.7	6.394	4
8	14S3	1,354.7	5.162	82.326	638.1	2.726	13
9	17S2	1,231.3	4.691	87.017	707.5	3.023	10
10	13S3	890.7	3.394	90.411	433.3	1.851	14
11	13S2	844.7	3.218	93.629	694.7	2.968	11
12	17S1	660.0	2.515	96.144	897.3	3.833	7
13	14S1	566.7	2.235	98.379	801.7	3.425	9
14	13S1	425.3	1.626	99.999	675.4	2.885	12

IA SNGS BN 1976

TABLE B.

BENTHOS ANNUAL RANK 1976

RANK BY NUMBER	TAXA	MEAN DENSITY	% FAUNA BY NUMBER	CUMED % BY NUMBER	DRY WEIGHT	% BY WEIGHT	RANK BY WEIGHT
1	B. IMPROVISUS	459.1	24.457	24.457	509.8	30.500	1
2	P. LITORALIS	370.2	19.721	44.178	10.8	.646	19
3	S. VIRIDIS	284.6	15.161	59.339	353.2	21.131	2
4	POLYDORA	249.5	13.291	72.630	15.0	.897	17
5	C. POLITA	63.0	4.421	77.051	70.3	4.206	5
6	C. LACUSTRE	63.2	3.367	80.418	5.4	.323	24
7	N. SUCCINEA	52.0	2.770	83.188	53.5	3.201	8
8	ANNELIDA	49.3	2.626	85.814	1.4	.084	25
9	OLIGOCHAETA 1	44.9	2.392	88.206	35.2	2.106	13
10	L. PLUMULOSUS	34.3	1.827	90.033	7.6	.455	21
11	C. ALMYRA	30.3	1.614	91.647	20.6	1.232	16
12	S. BENEDICTI	25.0	1.225	92.872	.8	.046	30
13	RHYNCHOCELA	18.7	.996	93.868	13.6	.814	18
14	GAMMARUS SPP.	15.6	.991	94.859	23.6	1.412	15
15	N. AMERICANA	14.2	.756	95.615	5.5	.329	23
16	G. FRANCISCANA	12.8	.682	96.297	55.2	3.302	7
17	M. BALTICA	12.4	.661	96.958	97.4	5.827	4
18	S. ARGENTEA	9.6	.511	97.469	41.4	2.477	12
19	PARAHAUSTORIUS SP.	4.7	.250	97.719	9.1	.544	20
20	E. TRILOBA	4.6	.245	97.964	.6	.036	32
21	M. EDWARDSI	4.3	.229	98.193	1.1	.066	28
22	M. NITIDA	4.0	.213	98.406	.4	.024	34
23	C. SEPTEMSPINOSA	2.8	.149	98.555	47.8	2.860	10
24	L. AMERICANUS	2.5	.133	98.688	.3	.016	35
25	CHIRONOMIDAE	2.2	.117	98.805	.3	.018	35
26	R. HARRISII	2.1	.112	98.917	58.8	3.518	6
27	A. VIDOVICI	2.0	.107	99.024	.3	.018	35
28	H. GELATINOSA	1.7	.091	99.115	1.1	.066	28
29	M. PROLIFERA	1.6	.085	99.200	44.6	2.668	11
30	ECTOPROCTA	1.5	.080	99.280			47
30	OLIGOCHAETA	1.5	.080	99.360	.1	.006	43
30	MEMBRANIPORIDAE	1.5	.080	99.440			47
33	M. ARENARIA	1.4	.075	99.515	.3	.016	35
34	C. VIRGINICA	1.3	.069	99.584	98.9	5.917	3
35	S. ELLIPTICUS	1.0	.053	99.637	.2	.012	41
36	M. LATERALIS	.9	.048	99.685	.8	.046	30
36	M. MANHATTENSIS	.9	.048	99.733	.1	.006	43
38	M. DEMISSUS	.8	.043	99.776	28.8	1.723	14
39	L. CULVERI	.5	.027	99.803	1.4	.084	25
40	E. GRACILIS	.4	.021	99.824	*	*	47
40	PARAPLEUSTES	.4	.021	99.845	*	*	47
40	R. CUNEATA	.4	.021	99.866	48.0	2.872	9
40	GASTROPODA	.4	.021	99.887	*	*	47
44	C. CASPIA	.3	.016	99.903	1.2	.072	27
44	E. HETEROPODA	.3	.016	99.919	.1	.006	43
44	S. VULGARIS	.3	.016	99.935	*	*	47
47	G. DIBRANCHIATA	.2	.011	99.946	*	*	47
47	PYRAMIDELLIDAE	.2	.011	99.957	*	*	47
47	C. SAPIDUS	.2	.011	99.968	5.7	.341	22
47	M. TENTA	.2	.011	99.979	.6	.036	32
51	D. OBSCURA	.1	.005	99.984	*	*	47
51	PELECYPODA	.1	.005	99.989	.1	.006	43
51	TURBONILLA	.1	.005	99.994	*	*	47
51	HYDROZOA	.1	.005	99.999	*	*	47
55	NEREIDAE	*	*	99.999	*	*	47
55	D. LEUCOLENA	*	*	99.999	.2	.012	41
55	H. GRAYI	*	*	99.999	*	*	47
55	TIPULIDAE	*	*	99.999	*	*	47
55	C. LUNIFRONS	*	*	99.999	*	*	47
55	C. LEUCOPHAETA	*	*	99.999	.3	.018	35
55	MACRIDAE	*	*	99.999	*	*	47
55	GONIADIDAE	*	*	99.999	*	*	47
55	MACOMA	*	*	99.999	*	*	47

\* BELOW REPORTABLE LEVEL

IA SNGS BN 1976

TABLE 9.

BENTHOS ESTIMATED MEAN DENSITY 02/76  
(NUMBERS / SQUARE METER)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA											
G. FRANCISCANA				13	20		13	20	20		
H. GELATINOSA									7		
S. ARGENTEA					7		13	7	13		
RHYNCHOCELA				13			7		7		
ANNELIDA					520			40			
L. CULVERI											
N. SUCCINEA											
POLYDORA											
S. VIRIDIS				147	853		340	353	433		
S. BENEDICTI									7		
OLIGOCHAETA				27	33						
OLIGOCHAETA 1							7				
P. LITORALIS				1,007						353	
M. DEMISSUS											
MACOMA											
M. BALTHICA											
B. IMPROVISUS							7				
C. ALMYRA				13				60		7	
C. POLITA				27			7	13		73	
C. LUNIFRONS											
L. PLUMULOSUS				200							
C. LACUSTRE								7			
GAMMARUS SPP.								13			
M. NITIDA											
PARAHAUSTORIUS SP.							53				
M. EDWARDSI											7
R. HARRISII				7							
CHIRONOMIDAE				60	7						
ECTOPROCTA											
A. VIDOVICI					7		7			7	
TOTALS				1,514	1,447		454	513	961		
PROPORTION				.071	.067		.021	.024	.045		

BENTHOS ESTIMATED MEAN DENSITY 02/76  
(NUMBERS / SQUARE METER)

LOCATION	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA											
G. FRANCISCANA		13	20	20			7	20			
H. GELATINOSA											
S. ARGENTEA		7	20	13				13			
RHYNCHOCELA		53	20				40	47			
ANNELIDA											
L. CULVERI		7									
N. SUCCINEA		7	547				207	40			
POLYDORA							213	7			
S. VIRIDIS		180	193	213			73	420			
S. BENEDICTI											
OLIGOCHAETA											
OLIGOCHAETA 1		60	73				100	187			
P. LITORALIS		313	687	33			113	353			
M. DEMISSUS			13								
MACOMA		7									
M. BALTHICA		13	13								
B. IMPROVISUS			3,073					7			
C. ALMYRA			13	33				547			
C. POLITA		13	113	13				27			
C. LUNIFRONS							60	87			
L. PLUMULOSUS		27									
C. LACUSTRE		7	200				87	7			
GAMMARUS SPP.			47				60	100			
M. NITIDA							7	33			
PARAHAUSTORIUS SP.								40			
M. EDWARDSI		7					7	7			
R. HARRISII			40				7				
CHIRONOMIDAE		7		7							
ECTOPROCTA			13								
A. VIDOVICI			7	13					7		
TOTALS		721	5,092	385			981	1,949			
PROPORTION		.034	.237	.018			.046	.091			

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY 02/76  
(NUMBERS / SQUARE METER)

LOCATION	T152	T652	T751	T752	T753	T851	T852	T853	TOTALS	PROPORTION
M. PROLIFERA				7			7		21	.001
G. FRANCISCANA			20			7	20		213	.010
H. GELATINOSA			7			7			21	.001
S. ARGENTEA			20	20			20		153	.007
RHYNCHOCELA			7			20	7		221	.010
ANNELIDA									560	.026
L. CULVERI									7	
N. SUCCINEA						153	7		961	.045
POLYDORA				773		1,260			2,313	.108
S. VIRIDIS			233	140		313	1,000		5,531	.258
S. BENEDICTI						190			167	.009
ULIGUCHAETA									60	.003
ULIGUCHAETA 1			7			220			654	.030
P. LITORALIS			20			1,127	327		4,333	.202
M. DELISSUS									13	.001
NACOMA									7	
M. BALTHICA						7	13		53	.002
G. IMPROVISUS						7	87		3,721	.173
C. ALMYRA							13		166	.008
C. POLITA			33	73		260	47		619	.038
C. LUNIFRONS			7						7	
L. PLUMULOSUS						13			334	.016
C. LACUSTRE			7	20		107			508	.024
GAMMARUS SPP.						20	140		260	.012
M. NITIDA				7					47	.002
PARAMOUSTICHNIUS SF.									53	.002
M. EDWARDSI									28	.001
R. HARRISII				20					74	.003
CHIRONOMIDAE									81	.004
LECTOPROCTA									20	.001
A. VIDOVICI									41	.002
TOTALS			961	1,120		3,821	1,540		21,467	
PROPORTION			.045	.052		.178	.072			

BENTHOS ESTIMATED MEAN DENSITY 03/76  
(NUMBERS / SQUARE METER)

LOCATION	T151	T152	T153	T251	T252	T253	T351	T352	T353	T354	T355
M. PROLIFERA											
G. FRANCISCANA				20	20		7	20	20		
H. GELATINOSA								7	7		
S. ARGENTEA				13	13			7	20		
RHYNCHOCELA				13					27		
ANNELIDA						7					
L. CULVERI							200	80			
N. SUCCINEA											
POLYDORA											
S. VIRIDIS				193	1,180		20	420	460		
S. BENEDICTI											
ULIGUCHAETA				13							
ULIGUCHAETA 1							7				
P. LITORALIS				1,277	60			7	420		
GASTROPODA											
M. BALTHICA										7	
M. COHEATA				7							
G. IMPROVISUS											
N. AMERICANA										13	
C. ALMYRA						7					
C. POLITA				13	20		53	67	33		
L. PLUMULOSUS				100							
C. LACUSTRE											
GAMMARUS SPP.									7		
M. EDWARDSI				7							
C. SEPTEMSPINOSA											
R. HARRISII											
TIPULIDAE							7				
CHIRONOMIDAE				33				7			
A. VIDOVICI								7			
TOTALS				1,619	1,307		301	636	1,007		
PROPORTION				.097	.078		.018	.038	.060		

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY 03/76  
(NUMBERS / SQUARE METER)

LOCATION	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA											13
G. FRANCISCANA		13	13	20							20
H. GELATINOSA				13							
S. ARGENTEA		7	20	20							20
RHYNCHOCELA		47	13				7				13
ANNELIDA		20									
L. CULVERI		33									
N. SUCCINEA		7									
POLYDORA				7			1,820				
S. VIRIDIS		100	313	213			313				347
S. BENEDICTI							73				
OLIGOCHAETA				20							7
OLIGOCHAETA 1		40	13				47				33
P. LITORALIS		173	327	27			147				213
GASTROPODA							20				
M. BALTHICA		7									40
R. CUNEATA											
B. IMPROVISUS				7							
N. AMERICANA							7				
C. ALMYRA				13							
C. POLITA		20	100								
L. PLUMULOSUS							247				133
C. LACUSTRE							120				
GAMMARUS SPP.				33			7				
M. EDWARDSI		7					27				
C. SEPTEMSPINOSA											7
R. HARRISII							7				
TIPULIDAE											
CHIRONOMIDAE				13							
A. VIDOVICI				7							
TOTALS		474	799	393			2,856				846
PROPORTION		.028	.046	.023			.171				.051

BENTHOS ESTIMATED MEAN DENSITY 03/76  
(NUMBERS / SQUARE METER)

LOCATION	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3	TOTALS	PROPORTION
M. PROLIFERA							13		33	.002
G. FRANCISCANA			7	13		7	20		200	.012
H. GELATINOSA									27	.002
S. ARGENTEA			7				20		147	.009
RHYNCHOCELA			7			27	60		214	.013
ANNELIDA									307	.018
L. CULVERI									33	.002
N. SUCCINEA			7			7			28	.002
POLYDORA				2,460					4,294	.256
S. VIRIDIS			367	73		160	1,947		6,106	.365
S. BENEDICTI									73	.004
OLIGOCHAETA									40	.002
OLIGOCHAETA 1			7			193			340	.020
P. LITORALIS			7			507	193		3,288	.196
GASTROPODA									20	.001
M. BALTHICA						27	13		94	.006
R. CUNEATA									7	
B. IMPROVISUS							20		27	.002
N. AMERICANA						13			33	.002
C. ALMYRA				7					147	.009
C. POLITA			7	47		73	47		740	.044
L. PLUMULOSUS						40			260	.016
C. LACUSTRE									7	
GAMMARUS SPP.			13	27		7			94	.006
M. EDWARDSI			27			7	13		88	.005
C. SEPTEMSPINOSA									7	
R. HARRISII									7	
TIPULIDAE									7	
CHIRONOMIDAE									53	.003
A. VIDOVICI						7			21	.001
TOTALS			456	2,627		1,075	2,346		16,742	
PROPORTION			.027	.157		.064	.140			

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY 04/76  
(NUMBERS / SQUARE METER)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA											
G. FRANCISCANA				20	20		13		20		
H. GELATINOSA				7	7			13			
S. ARGENTEA				13	7			20	20		
RHYNCHOCELA				20					27		
ANNELIDA					160		40	407	13		
N. SUCCINEA											
POLYDORA											
S. VIRIDIS				300	527		213	213	687		
S. BENEDICTI											
H. GRAYI											
OLIGOCHAETA 1							7				
P. LITORALIS				1,333	653				273		
M. DEMISSUS											
M. BALTHICA											
R. CUNEATA				13							
B. IMPROVISUS											
N. AMERICANA								7			
L. AMERICANUS							7				
E. TRILOBA											
C. POLITA				73	27		7	13	7		
L. PLUMULOSUS				140					40		
C. LACUSTRE				7							
GAMMARUS SPP.				7	33						
PARAHAUSTORIUS SP.							80				
M. EDWARDSI				13							
C. SEPTEMSPINOSA					7		7				
R. HARRISII											
CHIRONOMIDAE				107	7						
ECTOPROCTA											
A. VIDOVICI					13						
MEMBRANIPORIDAE											
TOTALS				2,053	1,461		374	673	1,087		
PROPORTION				.109	.078		.020	.036	.058		

BENTHOS ESTIMATED MEAN DENSITY 04/76  
(NUMBERS / SQUARE METER)

LOCATION	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA			7						13		
G. FRANCISCANA		7	20	20					20		
H. GELATINOSA			13	20					20		
S. ARGENTEA			40	40					67		
RHYNCHOCELA		40	7				27		7		
ANNELIDA			7				7		7		
N. SUCCINEA		7	153								
POLYDORA			7								
S. VIRIDIS		60	100	120			493	433			
S. BENEDICTI							20				
H. GRAYI											
OLIGOCHAETA 1		20	80	7			73	27			
P. LITORALIS		367	427	253			73	453			
M. DEMISSUS			20								
M. BALTHICA		7	13	20							
R. CUNEATA								33			
B. IMPROVISUS			1,207								
N. AMERICANA											
L. AMERICANUS											
E. TRILOBA								7			
C. POLITA		40	40	13			67	67			
L. PLUMULOSUS											
C. LACUSTRE			60				87				
GAMMARUS SPP.		7	27	13							
PARAHAUSTORIUS SP.											
M. EDWARDSI		13									
C. SEPTEMSPINOSA			7								
R. HARRISII											
CHIRONOMIDAE											
ECTOPROCTA			20								
A. VIDOVICI		7	7	7							
MEMBRANIPORIDAE			20				7				
TOTALS		575	2,275	473			861	1,140			
PROPORTION		.031	.121	.025			.046	.061			

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY 04/76  
(NUMBERS / SQUARE METER)

LOCATION	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3	TOTALS	PROPORTION
M. PROLIFERA			7	7			13		47	.002
G. FRANCISCANA			20	7			20		167	.010
H. GELATINOSA						7	7		41	.002
S. ARGENTEA			13	20			20		166	.009
RHYNCHOCELA			13			13	7		274	.015
ANNELIDA							20		654	.035
N. SUCCINEA						7	7		261	.014
POLYDORA				7		1,660			1,074	.057
S. VIRIDIS			800	227		347	1,407		5,927	.315
S. BENEDICTI						7			27	.001
H. GRAYI						7			7	
OLIGOCHAETA 1			33			73			320	.017
P. LITORALIS			33			513	2,020		6,398	.340
M. DEMISSUS									20	.001
M. BALTHICA									73	.004
R. CUNEATA									13	.001
B. IMPROVISUS						7	60		1,274	.068
N. AMERICANA									7	
L. AMERICANUS									14	.001
E. TRILOBA						13			20	.001
C. POLITA			7	73		287	33		747	.040
L. PLUMULOSUS						20			247	.013
C. LACUSTRE			7			13			87	.005
GAMMARUS SPP.			20	320		100	20		547	.029
PARAHAUSTORIUS SP.									60	.004
M. EDWARDSI			13			7			46	.002
C. SEPTESPINOSA			13						34	.002
R. HARRISII						7			7	
CHIRONOMIDAE						7			121	.006
ECTOPROCTA									20	.001
A. VIDOVICI								13	54	.003
MEMBRANIPORIDAE									20	.001
TOTALS			979	621		2,595	3,647		16,814	
PROPORTION			.052	.023		.138	.194			

BENTHOS ESTIMATED MEAN DENSITY 05/76  
(NUMBERS / SQUARE METER)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA											
C. CASPIA						7					
G. FRANCISCANA				13	20			7	7		
H. GELATINOSA					13						
S. ARGENTEA				7	7		7		13		
RHYNCHOCELA					7						
ANNELIDA				40	253		147	1,733			
N. SUCCINEA											
POLYDORA											173
S. VIRIDIS				67	773		13	933	93		
S. BENEDICTI											
OLIGOCHAETA				40	7						
OLIGOCHAETA 1											
P. LITORALIS				847	287				60		
GASTROPODA											
M. BALTHICA											
R. CUNEATA											
B. IMPROVISUS											
N. AMERICANA								27	7		
L. AMERICANUS											
C. ALMYRA				47	20		73	47			
C. POLITA				13	13			7	113		
L. PLUMULOSUS				347							
C. LACUSTRE											
GAMMARUS SPP.				67			33	27			
PARAHAUSTORIUS SP.							153				
M. EDWARDSI				7						20	
C. SEPTESPINOSA											
CHIRONOMIDAE				27							
ECTOPROCTA							7				
A. VIDOVICI						7					
MEMBRANIPORIDAE											
TOTALS				1,522	1,414		460	2,761	479		
PROPORTION				.077	.072		.023	.140	.024		

TABLE 9. - (CONTINUED)

LOCATION	BENTHOS ESTIMATED MEAN DENSITY 05/76 (NUMBERS / SQUARE METER)										
	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA				7							
C. CASPIA											
G. FRANCISCANA		20	13	7			7	20			
H. GELATINOSA			13					7			
S. ARGENTEA			7	20			7	13			
RHYNCHOCELA		53	13				7	7			
ANNELIDA								7			
N. SUCCINEA		20					7	7			
POLYDORA				247				13			
S. VIRIDIS		67	247	33			447	593			
S. BENEDICTI											
OLIGOCHAETA											
OLIGOCHAETA 1		73	20				127	100			
P. LITORALIS		160	313	20			267	2,347			
GASTROPODA								20			
M. BALTHICA		7									
R. CUNEATA								7			
B. IMPROVISUS			120				133	280			
N. AMERICANA			7	13			7	47			
L. AMERICANUS								7			
C. ALMYRA								67			
C. PGLITA		47	47	47				120			
L. PLUMULOSUS		7						147	207		
C. LACUSTRE											
GAMMARUS SPP.		107	20	7				13	13		
PARAHAUSTORIUS SP.								13	13		
M. EDWARDSI								13			
C. SEPTEMSPINOSA		7						7	27		
CHIRONOMIDAE		7									
ECTOPROCTA			13								
A. VIDOVICI				7				7			
MEMBRANIPORIDAE			7						7		
TOTALS		615	840	408			1,403	3,702			
PROPORTION		.031	.043	.021			.071	.188			

LOCATION	BENTHOS ESTIMATED MEAN DENSITY 05/76 (NUMBERS / SQUARE METER)								TOTALS	PROPORTION
	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3		
M. PROLIFERA										
C. CASPIA								7	14	.001
G. FRANCISCANA			13						7	.007
H. GELATINOSA				7				13	140	.002
S. ARGENTEA				13				7	40	.005
RHYNCHOCELA									101	.006
ANNELIDA			693				40		127	.146
N. SUCCINEA							20		2,873	.003
POLYDORA					580				60	.065
S. VIRIDIS									1,280	.246
S. BENEDICTI			500				567	500	4,853	.002
OLIGOCHAETA							7		7	.028
OLIGOCHAETA 1									47	.320
P. LITORALIS							233		553	.001
GASTROPODA							597	1,767	6,295	.002
M. BALTHICA									20	.002
R. CUNEATA							20		34	.029
B. IMPROVISUS				47					7	.008
N. AMERICANA			27						580	.008
L. AMERICANUS							13	13	161	.001
C. ALMYRA			207						7	.024
C. PGLITA				20				13	474	.036
L. PLUMULOSUS			7				47	27	715	.028
C. LACUSTRE							60		561	.001
GAMMARUS SPP.			13	20			7		20	.017
PARAHAUSTORIUS SP.							13		333	.008
M. EDWARDSI			20						153	.004
C. SEPTEMSPINOSA			7				27		87	.002
CHIRONOMIDAE									48	.002
ECTOPROCTA									34	.001
A. VIDOVICI			7						20	.001
MEMBRANIPORIDAE									28	.001
TOTALS			1,494	687		1,561	2,347		19,693	.001
PROPORTION			.076	.035		.079	.119			

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY C6/72  
(NUMBERS / SQUARE METER)

LOCATION	T151	T152	T153	T251	T252	T253	T351	T352	T353	T354	T355
M. PROLIFERA								7			
G. FRANCISCANA				22	20		13	13	20		
H. GELATINOSA											
S. ARGENTEA				7						7	
S. ELLIPTICUS							20	7	20		
RHYNCHOCOELA							113	260			
ANNELIDA						1,233					
L. CULVERI											
N. SUCCINEA										7	
POLYDORA											
S. VIRIDIS				140	193		460	47	20		
S. BENEDICTI											
OLIGOCHAETA 1							7				
P. LITORALIS				1,490	113					87	
TURBONILLA											
PELECYPODA				7						7	
M. DEMISSUS											
C. VIRGINICA											
M. BALTHICA											
R. CUNEATA											
B. IMPROVISUS					7		20	13	493		
N. AMERICANA				60	13			27	27		
L. AMERICANUS											
C. ALMYRA						240	40	1,320			
E. TRILOBA											
C. PULITA				27	27		20	7	20		
L. PLUMULOSUS				340	7						
C. LACUSTRE											
GAMMARUS SPP.				20			7			60	
M. NITIDA											
M. EDWARDSI					7						
PARAPLEUSTES											
C. SEPTemspINOSA							13	7			
R. HARRISII											
CHIRONOMIDAE				7							
ECTOPROCTA											
A. VIDOVICI							7				
MEMBRANIPORIDAE											
TOTALS				2,108	1,860		720	1,708	768		
PROPORTION				.049	.043		.017	.040	.018		

BENTHOS ESTIMATED MEAN DENSITY C6/76  
(NUMBERS / SQUARE METER)

LOCATION	T356	T451	T452	T453	T454	T455	T551	T552	T553	T554	T651
M. PROLIFERA				7							
G. FRANCISCANA		7	13	20			7	20			
H. GELATINOSA				7	13						
S. ARGENTEA		7	13	20					20		
S. ELLIPTICUS				20					53		
RHYNCHOCOELA		53	13				47	27			
ANNELIDA											
L. CULVERI		27									
N. SUCCINEA				20					73		
POLYDORA							13	40			
S. VIRIDIS		100	60	60			573	607			
S. BENEDICTI									7		
OLIGOCHAETA 1		67	47				490	167			
P. LITORALIS		20	200	13			413	507			
TURBONILLA							13				
PELECYPODA											
M. DEMISSUS				7					7		
C. VIRGINICA				7							
M. BALTHICA		7	30						47		
R. CUNEATA											
D. IMPROVISUS				9,387			100	12,713			
N. AMERICANA		7	20		13		7	107			
L. AMERICANUS				7	47				13		
C. ALMYRA											
E. TRILOBA											
C. PULITA		47	40								
L. PLUMULOSUS							440	207			
C. LACUSTRE							337				
GAMMARUS SPP.							53				
M. NITIDA					12						
M. EDWARDSI											
PARAPLEUSTES					7						
C. SEPTemspINOSA									13		
R. HARRISII									20		
CHIRONOMIDAE									7		
ECTOPROCTA				20							
A. VIDOVICI											
MEMBRANIPORIDAE				20							
TOTALS		502	9,981	240			2,474	14,713			
PROPORTION		.017	.273	.007			.061	.415			

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY 06/76  
(NUMBERS / SQUARE METER)

LOCATION	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3	TOTALS	PROPORTION
M. PROLIFERA									14	
G. FRANCISCANA			20			7	13		193	.005
H. GELATINOSA				20					20	
S. ARGENTEA			7				20		121	.003
S. ELLIPTICUS			7				13		86	.002
RHYNCHOCELA			7			27	27		228	.005
ANNELIDA			27						1,633	.038
L. CULVERI									27	.001
N. SUCCINEA			7			7	27		141	.003
POLYDORA				993			13		1,059	.025
S. VIRIDIS			320	13		280	727		3,600	.084
S. BENEDICTI						27			34	.001
OLIGOCHAETA 1			13			227		40	1,048	.025
P. LITORALIS			7			260	1,220		4,320	.101
TURBONILLA									13	
PELECYPODA									14	
M. DEMISSUS									14	
C. VIRGINICA									7	
M. BALTHICA						20	93		240	.006
R. CUNEATA						7			7	
B. IMPROVISUS							2,333		25,066	.586
N. AMERICANA			40			67	33		441	.010
L. AMERICANUS									67	.002
C. ALMYRA			13						1,613	.038
E. TRILOBA							7		14	
C. POLITA			53	33		167	407		1,515	.035
L. PLUMULOSUS						33			713	.017
C. LACUSTRE				7			27		94	.002
GAMMARUS SPP.			47			33	7		214	.005
M. NITIDA									13	
M. EDWARDSI									14	
PARAPLEUSTES									13	
C. SEPTEMSPINOSA			20			7			67	.002
H. HARRISII									7	
CHIRONOMIDAE									7	
ECTOPROCTA									20	
A. VIDOVICI			7						41	.001
MEMBRANIPORIDAE									27	.001
TOTALS			588	1,066		1,169	5,007		42,765	
PROPORTION			.014	.025		.027	.117			

BENTHOS ESTIMATED MEAN DENSITY 07/76  
(NUMBERS / SQUARE METER)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
C. CASPIA					20		7	7			
G. FRANCISCANA				7	13		7	7		7	
H. GELATINOSA				13	13						
S. ARGENTEA					7		7			13	
S. ELLIPTICUS											
RHYNCHOCELA					7		13	73			
ANNELIDA								67			
E. HETEROPODA											
L. CULVERI											
N. SUCCINEA										7	
POLYDORA									1,327		
S. VIRIDIS				100	260		127	53	27		
S. BENEDICTI											
OLIGOCHAETA				13							
OLIGOCHAETA 1											
P. LITORALIS				1,187	367					13	
GASTROPODA											
PYRAMIDELLIDAE											
M. DEMISSUS											
C. LEUCOPHAETA											
M. BALTHICA											
M. TENIA											
MACTRIDAE											
M. LATERALIS											
M. ARENARIA											
B. IMPROVISUS											
N. AMERICANA					60			7			
L. AMERICANUS											
C. ALMYRA					40		207	67			
E. TRILOBA											
C. POLITA				53	33		20			100	
L. PLUMULOSUS				400	7						
C. LACUSTRE											
GAMMARUS SPP.											
M. NITIDA											
PARAHAUSTORIUS SP.							67	20			
M. EDWARDSI				20							
C. SEPTEMSPINOSA							7				
R. HARRISII											
CHIRONOMIDAE				13							
ECTOPROCTA											
A. VIDOVICI						7					
MEMBRANIPORIDAE											
TOTALS				1,806	834		462	301	1,494		
PROPORTION				.062	.029		.016	.010	.052		

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY G7/76  
(NUMBERS / SQUARE METER)

LOCATION	T356	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
C. CASPIA											
G. FRANCISCANA		13	13	7			7				
H. GELATINOSA									13		
S. ARGENTEA			20	13					7		
S. ELLIPTICUS			7						33		
RHYNCHOCOELA		20	20								
ANNELIDA											
E. HETEROPODA									20		
L. CULVERI	7										
N. SUCCINEA			473				47	67			
POLYDORA			53	133			47	4,313			
S. VIRIDIS	80		53	7			93	480			
S. BENEDICTI							13	13			
OLIGOCHAETA	7										
OLIGOCHAETA 1	67		53				20	60			
P. LITORALIS	93		147	7			27	313			
GASTROPODA											
PYRAMIDELLIDAE									7		
M. DEMISSUS			20								
C. LEUCOPHAETA			7								
M. BALTHICA		13	80						87		
M. TENTA											
MACTRIDAE											
M. LATERALIS									7		
M. ARENARIA									13		
B. IMPROVISUS			10,407						493		
N. AMERICANA				13			80	67			
L. AMERICANUS			7						7		
C. ALMYRA				7							
E. TRILOBA			7				13	67			
C. POLITA	7		67	20			227	447			
L. PLUMULOSUS							107				
C. LACUSTRE			133				87				
GAMMARUS SPP.			27	7			7		20		
M. NITIDA			13								
PARAHAUSTORIUS SP.											
M. EDWARDSI									27		
C. SEPTEMSPINOSA							7				
R. HARRISII			7								
CHIRONOMIDAE											
ECTOPROCTA			20						13		
A. VIDOVICI											
MEMBRANIPORIDAE			20						7		
TOTALS		307	11,654	214			782	6,601			
PROPORTION		.011	.402	.007			.027	.228			

BENTHOS ESTIMATED MEAN DENSITY G7/76  
(NUMBERS / SQUARE METER)

LOCATION	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T6S2	T8S3	TOTALS	PROPORTION
C. CASPIA									34	.001
G. FRANCISCANA				13			13		107	.004
H. GELATINOSA									26	.001
S. ARGENTEA			7	20			13		113	.004
S. ELLIPTICUS							7		21	.001
RHYNCHOCOELA			7			40			213	.007
ANNELIDA									67	.002
E. HETEROPODA									20	.001
L. CULVERI									7	
N. SUCCINEA						13	20		627	.022
POLYDORA				287					6,160	.213
S. VIRIDIS			453	13		80	887		2,713	.094
S. BENEDICTI						7			33	.001
OLIGOCHAETA									20	.001
OLIGOCHAETA 1			13			260			473	.016
P. LITORALIS			7			20	320		2,501	.086
GASTROPODA								7	7	
PYRAMIDELLIDAE									7	
M. DEMISSUS									20	.001
C. LEUCOPHAETA									7	
M. BALTHICA						13	47		240	.008
M. TENTA							7		7	
MACTRIDAE							7		7	
M. LATERALIS									7	
M. ARENARIA									13	
B. IMPROVISUS							1,120		12,020	.415
N. AMERICANA			13	13		20	87		360	.012
L. AMERICANUS							7		21	.001
C. ALMYRA			40						361	.012
E. TRILOBA						7	7		121	.004
C. POLITA			127	20		140	180		1,441	.050
L. PLUMULOSUS						53	7		574	.020
C. LACUSTRE				7					227	.008
GAMMARUS SPP.				7				13	81	.022
M. NITIDA					27				40	.001
PARAHAUSTORIUS SP.									87	.003
M. EDWARDSI			7						54	.002
C. SEPTEMSPINOSA			13	7		7			41	.001
R. HARRISII				7					14	
CHIRONOMIDAE									13	
ECTOPROCTA									33	.001
A. VIDOVICI									7	
MEMBRANIPORIDAE									27	.001
TOTALS			687	421		660	2,749		28,972	
PROPORTION			.024	.015		.023	.095			

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY 06/76  
(NUMBERS / SQUARE METER)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA											
G. FRANCISCANA				20	20			7	20		
S. ARGENTEA					7				20		
RHYNCHOCEOLA				33							
ANNELIDA							7	33			
N. SUCCINEA											7
POLYDORA									607		
S. VIRIDIS				53	93		93	87	20		
S. BENEDICTI											
OLIGOCHAETA					7						
OLIGOCHAETA 1											
P. LITORALIS				433	307					160	
GASTROPODA											
D. OBSCURA											
M. BALTHICA				7						20	
M. LATERALIS											
R. CUNEATA				7							
B. IMPROVISUS					353						167
N. AMERICANA								7	7		80
L. AMERICANUS											
C. ALMYRA						27		73	373		
E. TRILOBA											
C. POLITA				7	47						233
L. PLUMULOSUS				100							
C. LACUSTRE					233						
GAMMARUS SPP.					40						20
M. NITIDA											
PARAHAUSTORIUS SP.								33	13		
M. EDWARDSI											
C. SEPTEMSPINOSA						13					13
C. SAPIDUS				7							
K. HARRISII					7						13
ECTOPROCTA											
A. VIDOVICI											
MEMBRANIPORIDAE											
TOTALS				667	1,154		213	520	1,380		
PROPORTION				.036	.063		.012	.028	.075		

BENTHOS ESTIMATED MEAN DENSITY 08/76  
(NUMBERS / SQUARE METER)

LOCATION	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA											7
G. FRANCISCANA											13
S. ARGENTEA		7	20	7	20						20
RHYNCHOCEOLA		27	27	7			47				73
ANNELIDA											
N. SUCCINEA				173				127			
POLYDORA				13				137			
S. VIRIDIS		107	73	233				167		273	
S. BENEDICTI								213		20	
OLIGOCHAETA								7		7	
OLIGOCHAETA 1		60						213		113	
P. LITORALIS		133	780	67				240		400	
GASTROPODA											
D. OBSCURA				7							
M. BALTHICA		7	93		7			27		100	
M. LATERALIS											7
R. CUNEATA											
B. IMPROVISUS			2,053					140		7	
N. AMERICANA			13	193						33	
L. AMERICANUS		13								7	
C. ALMYRA											
E. TRILOBA		20	40	7				13			
C. POLITA		7	247	13				287		87	
L. PLUMULOSUS								313			
C. LACUSTRE			67					367			
GAMMARUS SPP.			13	7							
M. NITIDA			93							13	
PARAHAUSTORIUS SP.											
M. EDWARDSI					13					7	
C. SEPTEMSPINOSA		7	7	7						7	
C. SAPIDUS											
R. HARRISII								7		7	
ECTOPROCTA				20							
A. VIDOVICI				7	7						
MEMBRANIPORIDAE				20							
TOTALS		388	3,773	608			2,275	1,208			
PROPORTION		.021	.204	.033			.123	.065			

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY 06/76  
(NUMBERS / SQUARE METER)

LOCATION	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	9S2	T8S3	TOTALS	PROPORTION
M. PROLIFERA			7						21	.001
G. FRANCISCANA			13			7	13		160	.009
S. ARGENTEA				20			20		114	.006
RHYNCHOCELA						33	93		340	.018
ANNELIDA									40	.002
N. SUCCINEA				7		7	27		348	.019
POLYDORA				1,140			7		1,874	.102
S. VIRIDIS			60	7		147	887		2,300	.125
S. BENEDICTI						80	33		346	.019
OLIGOCHAETA									21	.001
OLIGOCHAETA 1			7			207	53		653	.035
P. LITORALIS			7	7		240	1,267		4,041	.219
GASTROPODA							7		7	
D. OBSCURA									7	
M. BALTHICA						47	33		341	.018
M. LATERALIS							13		20	.001
R. CUNEATA									7	
B. IMPROVISUS							413		3,133	.170
N. AMERICANA			7			20	87		447	.024
L. AMERICANUS						80			100	.005
C. ALMYRA			240						713	.039
E. TRILOBA				7					87	.005
C. POLITA			7	80		180	313		1,508	.082
L. PLUMULOSUS						33			446	.024
C. LACUSTRE						7			734	.040
GAMMARUS SPP.			20	20		20	60		227	.012
M. NITIDA							40		146	.008
PARAHAUSTORIUS SP.									46	.002
M. EDWARDSI						7			27	.001
C. SEPTEMSPINOSA			7	33					94	.005
C. SAPIDUS									7	
R. HARRISII							7		41	.002
ECTOPROCTA									20	.001
A. VIDDVICI									14	.001
MEMBRANIPORIDAE								7	27	.001
TOTALS			375	1,321		1,115	3,460		18,457	
PROPORTION			.020	.072		.060	.187			

BENTHOS ESTIMATED MEAN DENSITY 09/76  
(NUMBERS / SQUARE METER)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA					7		13				
G. FRANCISCANA				20	20		20	20	20		
H. GELATINOSA											
S. ARGENTEA				7	13		13	7	7		
S. ELLIPTICUS					7						
E. GRACILIS											
RHYNCHOCELA				47			27	20			
E. HETEROPODA											
N. SUCCINEA											
G. DIBRANCHIATA											
GONIADIDAE											
POLYDORA											
S. VIRIDIS				40	27		280	313	27		
S. BENEDICTI									27		
OLIGOCHAETA				7							
OLIGOCHAETA 1											
P. LITORALIS				1,527	107		20	7			
GASTROPODA							20				
D. OBSCURA											
PELECYPODA											
C. VIRGINICA											
M. BALTHICA				7							
M. TENTA											
M. LATERALIS											
R. CUNEATA											
M. ARENARIA											
D. IMPROVISUS					7		7				
N. AMERICANA				7			33	33	7		
L. AMERICANUS											
C. ALMYRA							47	27			
E. TRILOBA				13	107		7				
C. POLITA				20	27		47		33		
L. PLUMULOSUS				167			7		33		
C. LACUSTRE				7	353						
GAMMARUS SPP.				7			7		7		
M. NITIDA											
PARAHAUSTORIUS SP.								7			
M. EDWARDSI				27			7				
PARAPLEUSTES											
C. SEPTEMSPINOSA				7							
C. SAPIDUS											
R. HARRISII											
CHIRONOMIDAE											
ECTOPROCTA				7							
MEMBRANIPORIDAE											
M. MANHATTENSIS											
TOTALS				1,917	675		555	434	161		
PROPORTION				.072	.025		.021	.016	.006		

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY 09/76  
(NUMBERS / SQUARE METER)

LOCATION	T356	T451	T452	T453	T454	T455	T551	T552	T553	T554	T651
M. PROLIFERA											7
G. FRANCISCANA		20	20								20
H. GELATINOSA											13
S. ARGENTEA		13	20	20							13
S. ELLIPTICUS											27
E. GRACILIS			13								53
RHYNCHOCEOLA		27	53	13			60				27
E. HETEROPODA											7
N. SUCCINEA			1,047	13			27				47
G. DIBRANCHIATA											7
GONIADIDAE											7
POLYDORA			127	2,133							220
S. VIRIDIS		180	86	13							407
S. BENEDICTI			20								20
OLIGOCHAETA											247
OLIGOCHAETA 1		80	33								127
P. LITORALIS		67	740	7							333
GASTROPODA											7
D. OBSCURA											7
PELECYPODA											7
C. VIRGINICA											87
M. BALTHICA		20	67								7
M. TENTA											20
M. LATERALIS											13
R. CUNEATA											53
M. ARENARIA											2,100
B. IMPROVISUS			5,120	33							13
N. AMERICANA			80	7							13
L. AMERICANUS		27									13
C. ALMYRA											147
E. TRILOBA			27	40							460
C. POLITA		40	200	253							680
L. PLUMULOSUS		7									7
C. LACUSTRE			2,533	27							7
GAMMARUS SPP.											47
M. NITIDA			47								13
PARAHAUSTORIUS SP.											20
M. EDWARDSI		7									7
PARAPLEUSTES											13
C. SEPTEMSPINOSA				33	7						7
C. SAPIDUS											33
R. HARRISII											33
CHIRONOMIDAE											20
ECTOPROCTA											20
MEMBRANIPORIDAE											7
M. MANHATTENSIS											40
TOTALS		488	10,347	2,607			2,735				3,176
PROPORTION		.018	.388	.098			.103				.119

BENTHOS ESTIMATED MEAN DENSITY 09/76  
(NUMBERS / SQUARE METER)

LOCATION	T652	T653	T751	T752	T753	T851	T852	T853	TOTALS	PROPORTION
M. PROLIFERA									34	.001
G. FRANCISCANA				7	13		7	20	214	.008
H. GELATINOSA									13	
S. ARGENTEA					13			20	146	.005
S. ELLIPTICUS									7	
E. GRACILIS									40	.002
RHYNCHOCEOLA			7				73	60	440	.017
E. HETEROPODA									7	
N. SUCCINEA					7				1,194	.045
G. DIBRANCHIATA								7	14	.001
GONIADIDAE									7	
POLYDORA					600		227		3,114	.117
S. VIRIDIS			80				60	153	1,720	.065
S. BENEDICTI							107	13	567	.021
OLIGOCHAETA									7	
OLIGOCHAETA 1			7						895	.034
P. LITORALIS							347	27	3,488	.131
GASTROPODA									7	
D. OBSCURA									7	
PELECYPODA									7	
C. VIRGINICA									7	
M. BALTHICA							33	7	221	.008
M. TENTA									7	
M. LATERALIS								80	100	.004
R. CUNEATA							7		7	
M. ARENARIA									20	.001
B. IMPROVISUS					27				7,347	.276
N. AMERICANA					53			27	260	.010
L. AMERICANUS								7	107	.004
C. ALMYRA									181	.007
E. TRILOBA			7		60			7	361	.014
C. POLITA			20		127		300	93	1,767	.066
L. PLUMULOSUS									47	.002
C. LACUSTRE								7	908	.034
GAMMARUS SPP.					20				2,961	.111
M. NITIDA									41	.002
PARAHAUSTORIUS SP.									94	.004
M. EDWARDSI									7	
PARAPLEUSTES				13			13		87	.003
C. SEPTEMSPINOSA									20	.001
C. SAPIDUS					7				54	.002
R. HARRISII							7		14	.001
CHIRONOMIDAE									40	.002
ECTOPROCTA									7	
MEMBRANIPORIDAE									20	.001
M. MANHATTENSIS									34	.001
TOTALS			141	934		1,615	855		26,640	
PROPORTION			.005	.035		.061	.032			

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY 10/76  
(NUMBERS / SQUARE METER)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PKOLIFERA											
G. FRANCISCANA				20	20		7	13		7	
S. ARGENTEA				7	7		7			20	
S. ELLIPTICUS											
E. GRACILIS											
RHYNCHOCELA				40				47		20	
ANNELIDA					53						
E. HETEROPODA											
NEREIDAE											
N. SUCCINEA											
G. DIBRANCHIATA											
POLYDORA											60
S. VIRIDIS				13	220		180	60		100	
S. BENEDICTI											
S. VULGARIS											
OLIGOCHAETA 1							13				
P. LITORALIS				247	553		40			147	
D. OBSCURA											
M. DEMISSUS											
C. VIRGINICA											7
M. BALTHICA											
M. TENTA											
R. CUNEATA				7							
M. ARENARIA											
B. IMPROVISUS					147						
N. AMERICANA					20		27	7		73	
L. AMERICANUS											
C. ALMYRA							153	287			
E. TRILOBA											
C. POLITA				20	7		13			100	
L. PLUMULOSUS				60				7			
C. LACUSTRE					900					20	
GAMMARUS SPP.				7				13		40	
M. NITIDA											
PARAHAUSTORIUS SP.							200				
M. EDWARDSI				7				13		7	
PARAPLEUSTES											
C. SEPTEMSPINOSA					7			7			
R. HARRISII											
ECTOPROCTA											
MEMBRANIPORIDAE											
M. MANHATTENSIS											
TOTALS				428	1,934		640	454		601	
PROPORTION				.024	.109		.036	.026		.034	

BENTHOS ESTIMATED MEAN DENSITY 10/76  
(NUMBERS / SQUARE METER)

LOCATION	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA					7						13
G. FRANCISCANA			13	13	20						13
S. ARGENTEA				13	13						20
S. ELLIPTICUS											20
E. GRACILIS											.7
RHYNCHOCELA			27	27	20		33		93		
ANNELIDA											
E. HETEROPODA											
NEREIDAE		7									
N. SUCCINEA			980		7		27		80		
G. DIBRANCHIATA			7						13		
POLYDORA			33		1,020		13				
S. VIRIDIS		93	73		20		93		80		
S. BENEDICTI		7	40				167		27		
S. VULGARIS									33		
OLIGOCHAETA 1		73	40		20		67		247		
P. LITORALIS		167	573		80		187		427		
D. OBSCURA									7		
M. DEMISSUS					7				7		
C. VIRGINICA					7				33		
M. BALTHICA		40		20			13		153		
M. TENTA									7		
R. CUNEATA											
M. ARENARIA							27				
B. IMPROVISUS			2,860		53		93		193		
N. AMERICANA		7			7		20		7		
L. AMERICANUS		7			13						
C. ALMYRA											
E. TRILOBA		7								7	
C. POLITA		27		80	60		167		100		
L. PLUMULOSUS				7			240				
C. LACUSTRE				480					33		
GAMMARUS SPP.				13					80		
M. NITIDA				20					93		
PARAHAUSTORIUS SP.											
M. EDWARDSI											
PARAPLEUSTES									20		
C. SEPTEMSPINOSA				27							
R. HARRISII				27							
ECTOPROCTA				13		7			13		
MEMBRANIPORIDAE				13		7			7		
M. MANHATTENSIS									53		
TOTALS		475	5,380	1,354			1,147	1,886			
PROPORTION		.027	.303	.076			.065	.106			

TABLE 9. - (CONTINUED)

BENTHOS ESTIMATED MEAN DENSITY 10/76  
(NUMBERS / SQUARE METER)

LOCATION	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3	TOTALS	PROPORTION
M. PROLIFERA									20	.001
G. FRANCISCANA			7			7	20		160	.009
S. ARGENTEA			13	13			7		120	.007
S. ELLIPTICUS									20	.001
E. GRACILIS									7	
RHYNCHOCOELA			13			33	33		386	.022
ANNELIDA									53	.003
E. HETEROPODA						7			7	
MEREIDAE									7	
N. SUCCINEA						60			1,154	.065
G. DIBRANCHIATA									20	.001
POLYDORA				1,180		80			2,386	.134
S. VIRIDIS			213	13		40	120		1,318	.074
S. BENEDICTI						187			428	.024
S. VULGARIS									33	.002
OLIGOCHAETA 1			7			153			620	.035
P. LITORALIS			7			367	327		3,122	.176
D. OBSCURA									7	
M. DEMISSUS									14	.001
C. VIRGINICA									40	.002
M. BALTHICA			7			20			260	.015
M. TENTA									7	
U. CUNEATA									7	
M. ARENARIA						7			34	.002
B. IMPROVISUS									3,346	.188
N. AMERICANA			47			33	27		275	.015
L. AMERICANUS						13			33	.002
C. ALMYRA									440	.025
E. TRILOBA				27					48	.003
C. POLITA			33	27		173	7		814	.046
L. PLUMULOSUS						27			341	.019
C. LACUSTRE				33					1,466	.083
GAMMARUS SPP.				47					200	.011
M. NITIDA									113	.006
PARAHAUSTORIUS SP.									200	.011
M. EDWARDSI			7				7		41	.002
PARAPLEUSTES									20	.001
C. SEPTEMSPINOSA									41	.002
R. HARRISII				7					34	.002
ECTOPROCTA									33	.002
MEMBRANIPORIDAE									27	.002
M. MANHATTENSIS									53	.003
TOTALS			354	1,347		1,207	548		17,755	
PROPORTION			.020	.076		.068	.031			

BENTHOS ESTIMATED MEAN DENSITY 12/76  
(NUMBERS / SQUARE METER)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA											
HYDROZOA											
G. FRANCISCANA				20	20		13	13	20		
H. GELATINOSA				13	7		7				
S. ARGENTEA				7	20		7	13	13		
D. LEUCOLENA											
S. ELLIPTICUS											
E. GRACILIS											
RHYNCHOCOELA				53	7						
ANNELIDA				47	27		13	380			
E. HETEROPODA											
N. SUCCINEA											
POLYDORA					7						
S. VIRIDIS				327	633		7		740		
S. BENEDICTI							20	7	67		
S. VULGARIS											
OLIGOCHAETA				7							
OLIGOCHAETA 1											
P. LITORALIS				3,027	807		7			7	
PYRAMIDELLIDAE											
M. DEMISSUS											
C. VIRGINICA											
M. BALTHICA											
M. TENTA											
M. ARENARIA											
U. IMPROVISUS					27						
N. AMERICANA											
C. ALMYRA					53		7	13			
C. POLITA				67	27					87	
L. PLUMULOSUS				213							
C. LACUSTRE				13	20						
GAMMARUS SPP.				13	27		7	7	7		
M. NITIDA											
PARAHAUSTORIUS SP.								20			
M. EDWARDSI				13						20	
C. SEPTEMSPINOSA											
C. SAPIDUS											
K. HARRISII											
ECTOPROCTA											
A. VIDOVICI				13	20					7	
MEMBRANIPORIDAE											
M. MANHATTENSIS											
TOTALS				3,833	1,702		88	453	975		
PROPORTION				.074	.033		.002	.009	.019		

TABLE 9. - (CONTINUED)

LOCATION	BENTHOS ESTIMATED MEAN DENSITY 12/76 (NUMBERS / SQUARE METER)										
	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA											
HYDROZOA								20			
G. FRANCISCANA								7			
H. GELATINOSA		20	20	13				7			
S. ARGENTEA			7	33							
D. LEUCOLENA									20		
S. ELLIPTICUS			7								
E. GRACILIS			7								
RHYNCHOCOELA		13									
ANNELIDA		7						13		20	
E. HETEROPODA								13			
N. SUCCINEA		7	1,727	27				360	327		
POLYDORA			40	6,060				3,067	13		
S. VIRIDIS		307	80	107				233	1,907		
S. BENEDICTI								1,347	140		
S. VULGARIS									13		
OLIGOCHAETA											
OLIGOCHAETA 1		60		13				180	200		
P. LITORALIS		1,000	640	67				1,260	3,827		
PYRAMIDELLIDAE								27			
M. DEMISSUS				13					13		
C. VIRGINICA				40					87		
M. BALTHICA		27	33	7					60		
M. TENTA											
M. ARENARIA								93	27		
B. IMPROVISUS			5,533	207				540	1,453		
N. AMERICANA											
C. ALMYRA		7		13							
C. POLITA		53	47	287				427	300		
L. PLUMULOSUS		7						187			
C. LACUSTRE		13	1,220	27				100	1,180		
GAMMARUS SPP.			173					20	60		
M. HITIDA			27						87		
PARAHAUSTORIUS SP.											
M. EDWARDSI		13	7								
C. SEPTEMSPINOSA											
C. SAPIDUS											
R. HARRISII			27	7						7	
ECTOPROCTA			20								
A. VIDOVICI			7					7	13		
MEMBRANIPORIDAE			13	7				7	13		
M. MANHATTENSIS									27		
TOTALS		1,534	9,695	6,882				7,895	9,847		
PROPORTION		.030	.188	.133				.153	.191		

LOCATION	BENTHOS ESTIMATED MEAN DENSITY 12/76 (NUMBERS / SQUARE METER)									
	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3	TOTALS	PROPORTION
M. PROLIFERA										
HYDROZOA								7	27	.001
G. FRANCISCANA									20	
H. GELATINOSA			7	13		13	20		219	.004
S. ARGENTEA			7	7		13	13		47	.001
D. LEUCOLENA							20		167	.003
S. ELLIPTICUS									7	
E. GRACILIS									7	
RHYNCHOCOELA				7					7	
ANNELIDA			213	13		33	20		173	.003
E. HETEROPODA						7	7		714	.014
N. SUCCINEA					33				13	
POLYDORA					1,447				2,508	.049
S. VIRIDIS					33				11,374	.220
S. BENEDICTI			140			130	1,813		5,774	.112
S. VULGARIS							27		1,514	.029
OLIGOCHAETA									13	
OLIGOCHAETA 1						7			14	
P. LITORALIS						267	7		734	.014
PYRAMIDELLIDAE			47			927	2,440		14,049	.272
M. DEMISSUS									27	.001
C. VIRGINICA									26	.001
M. BALTHICA									127	.002
M. TENTA									180	.003
M. ARENARIA						40	13		7	
B. IMPROVISUS						7			127	.002
N. AMERICANA									7,760	.150
C. ALMYRA			40	7					7	
C. POLITA			13	140					153	.003
L. PLUMULOSUS						80	33		1,561	.030
C. LACUSTRE			7	173		13			420	.008
GAMMARUS SPP.			60	233					2,753	.053
M. HITIDA									607	.012
PARAHAUSTORIUS SP.			7						114	.002
M. EDWARDSI			33	33					27	.001
C. SEPTEMSPINOSA						7	7		133	.003
C. SAPIDUS						7			7	
R. HARRISII				33		7			7	
ECTOPROCTA									74	.001
A. VIDOVICI									20	
MEMBRANIPORIDAE						7	13		87	.002
M. MANHATTENSIS									40	.001
TOTALS			574	2,172		1,555	4,467		51,672	
PROPORTION			.011	.042		.030	.086			

TABLE 10.

BENTHOS ESTIMATED MEAN BIOMASS 02/76  
(mg/m<sup>2</sup>)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA				24	99		9	16	18		
G. FRANCISCANA									1		
H. GELATINOSA					*		31	3	6		
S. ARGENTEA				5			20		2		
RHYNCHOCELA					11			1			
ANNELIDA											
L. CULVERI											
N. SUCCINEA											
POLYDORA											6
S. VIRIDIS				360	1,475		613	688	491		
S. BENEDICTI				2	4				*		
OLIGOCHAETA											
OLIGOCHAETA 1							1				
P. LITORALIS				18						10	
M. DEMISSUS											
MACOMA											
M. BALTHICA											
B. IMPROVISUS							10				
C. ALMYRA				25				205	17		
C. POLITA				31			4	49	114		
C. LUNIFRONS											
L. PLUMULOSUS				46							
C. LACUSTRE								2			
GAMMARUS SPP.								1			
M. NITIDA											
PARAHAUSTORIUS SP.							59				
M. EDWARDSI										1	
R. HARRISII				664							
CHIRONOMIDAE				5	1						
ECTOPROCTA											
A. VIDOVICI					4		1			3	
TOTALS				1,180	1,594		748	965	669		
PROPORTION				.033	.045		.021	.027	.019		

BENTHOS ESTIMATED MEAN BIOMASS 02/76  
(mg/m<sup>2</sup>)

LOCATION	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA				29							
G. FRANCISCANA		16	93	45			6	131			
H. GELATINOSA											
S. ARGENTEA		9	21	81				109			
RHYNCHOCELA		6	1				23	11			
ANNELIDA											
L. CULVERI		23									
N. SUCCINEA		5	479				213	19			
POLYDORA				1			27	3			
S. VIRIDIS		443	102	308			44	237			
S. BENEDICTI											
OLIGOCHAETA											
OLIGOCHAETA 1		13	34				33	121			
P. LITORALIS		9	12	3			3	7			
M. DEMISSUS			12								
MACOMA		1									
M. BALTHICA		298	226					173			
B. IMPROVISUS			17,880					2,163			
C. ALMYRA			26	11				66			
C. POLITA		10	362	1			47	6			
C. LUNIFRONS											
L. PLUMULOSUS		14					13	*			
C. LACUSTRE		1	11				6	8			
GAMMARUS SPP.			29				2	40			
M. NITIDA								3			
PARAHAUSTORIUS SP.											
M. EDWARDSI		3					1	*			
R. HARRISII			377				58				
CHIRONOMIDAE		1		*							
ECTOPROCTA			*								
A. VIDOVICI			2	3							
TOTALS		852	19,669	482			476	3,097			
PROPORTION		.024	.550	.013			.013	.087			

\* INSUFFICIENT MASS TO MEASURE

IA SNGS RN 1976

TABLE 10. - (CONTINUED)

BENTHOS ESTIMATED MEAN BIOMASS 02/76  
(mg/m<sup>2</sup>)

LOCATION	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3	TOTALS	PROPORTION
M. PROLIFERA				45			68		142	.004
G. FRANCISCANA			13			1	21		492	.014
H. GELATINOSA			4			*			5	
S. ARGENTEA			2	147			23		432	.012
RHYNCHOCOELA			1			11	*		80	.002
ANNELIDA									12	
L. CULVERI									23	.001
N. SUCCINEA						34	1		751	.021
POLYDORA				24		133			194	.005
S. VIRIDIS			1,527	303		73	1,109		7,773	.218
S. BENEDICTI						3			3	
OLIGOCHAETA									6	
OLIGOCHAETA 1			1			22			225	.006
P. LITORALIS			*			21	10		93	.003
M. DEMISSUS									12	
MACOMA									1	
M. BALTHICA						136	74		907	.025
B. IMPROVISUS						8	569		20,630	.577
C. ALMYRA							26		378	.011
C. POLITA			87	165		147	457		1,480	.041
C. LUNIFRONS			1						1	
L. PLUMULOSUS						2			75	.002
C. LACUSTRE			2	1		11			42	.001
GAMMARUS SPP.				23		64			159	.004
M. NITIDA				2					5	
PARAHAUSTORIUS SP.									59	.002
M. EDWARDSI									5	
R. HARRISII				627					1,726	.048
CHIRONOMIDAE									7	
ECTOPROCTA										
A. VIDOVICI									13	
TOTALS			1,638	1,337		666	2,358		35,731	
PROPORTION			.046	.037		.019	.066			

BENTHOS ESTIMATED MEAN BIOMASS C3/76  
(mg/m<sup>2</sup>)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA								5			
G. FRANCISCANA				14	80		*	33	33		
H. GELATINOSA								1	*		
S. ARGENTEA				9	7			33	13		
RHYNCHOCOELA				3					19		
ANNELIDA					1			*			
L. CULVERI											
N. SUCCINEA											
POLYDORA											
S. VIRIDIS				276	1,178		11	183	341		
S. BENEDICTI				*							
OLIGOCHAETA											
OLIGOCHAETA 1							1				
P. LITORALIS				31	4			*	21		
GASTROPODA											
M. BALTHICA									157		
R. CUNEATA				1,679							
B. IMPROVISUS											
N. AMERICANA										8	
C. ALMYRA					17		127	113			
C. POLITA				5	29				83		
L. PLUMULOSUS				35							
C. LACUSTRE											
GAMMARUS SPP.								26			
M. EDWARDSI				5							
C. SEPTHEMSPINOSA											
R. HARRISII											
TIPULIDAE							4				
CHIRONOMIDAE				2				1			
A. VIDOVICI							*				
TOTALS				2,059	1,316		146	395	675		
PROPORTION				.141	.090		.010	.027	.046		

\* INSUFFICIENT MASS TO MEASURE

IA SNGS BN 1976

TABLE 10. - (CONTINUED)

BENTHOS ESTIMATED MEAN BIOMASS 03/76  
(mg/m<sup>2</sup>)

LOCATION	T356	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA								63			
G. FRANCISCANA		273	8	129				38			
H. GELATINOSA				3							
S. ARGENTEA		5	27	32				127			
RHYNCHOCELA		7	5				*	2			
ANNELIDA		43									
L. CULVERI		*									
N. SUCCINEA				1			146				
POLYDORA		113	310	27			113	417			
S. VIRIDIS							*				
S. BENEDICTI				*							
OLIGOCHAETA		18	3				13	26			
OLIGOCHAETA 1		7	11	*			5	7			
P. LITORALIS							1				
GASTROPODA		177						2,316			
M. BALTHICA											
R. CUNEATA				9							
B. IMPROVISUS							5				
N. AMERICANA				16							
C. ALMYRA		21	149				194	233			
C. POLITA							28				
L. PLUMULOSUS							1				
C. LACUSTRE				49			6				
GAMMARUS SPP.							7				
M. EDWARDSI		5								11	
C. SEPTHEMSPINOSA							133				
M. HARRISII											
IIPULIDAE				*							
CHIRONOMIDAE				*							
A. VIDOVICI											
TOTALS		669	513	266			654	3,241			
PROPORTION		.046	.035	.018			.045	.221			

BENTHOS ESTIMATED MEAN BIOMASS 03/76  
(mg/m<sup>2</sup>)

LOCATION	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3	TOTALS	PROPORTION
M. PROLIFERA							99		167	.011
G. FRANCISCANA			7	1		12	55		683	.047
H. GELATINOSA									4	
S. ARGENTEA			27				166		446	.030
RHYNCHOCELA			1			10	96		143	.010
ANNELIDA									4	
L. CULVERI									4.3	.003
N. SUCCINEA			5			5			12	.001
POLYDORA					118				265	.018
S. VIRIDIS			285	9		79	2,214		5,556	.380
S. BENEDICTI									1	
OLIGOCHAETA						134			196	.013
OLIGOCHAETA 1			1			27	9		122	.008
P. LITORALIS			*						1	
GASTROPODA									3,569	.244
M. BALTHICA						334	585		1,679	.115
R. CUNEATA									49	.003
B. IMPROVISUS						*	40		13	.001
N. AMERICANA									274	.019
C. ALMYRA				1		75	181		1,022	.070
C. POLITA			25	29		7			70	.005
L. PLUMULOSUS									1	
C. LACUSTRE									134	.009
GAMMARUS SPP.			27	20		6			35	.002
M. EDWARDSI			12			1	5		11	.001
C. SEPTHEMSPINOSA									133	.009
R. HARRISII									4	
IIPULIDAE									3	
CHIRONOMIDAE										
A. VIDOVICI										
TOTALS			388	178		690	3,450		14,640	
PROPORTION			.027	.012		.047	.236			

\* INSUFFICIENT MASS TO MEASURE

TABLE 10. - (CONTINUED)

BENTHOS ESTIMATED MEAN BIOMASS 04/76  
(mg/m<sup>2</sup>)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA											
G. FRANCISCANA				101	405		10		105		
H. GELATINOSA				1	2			3			
S. ARGENTEA				13	35			135	18		
RHYNCHOCOLLA				2					22		
ANNELIDA					4		*	7	1		
N. SUCCINEA											
POLYDORA											
S. VIRIDIS				263	315		348	110	590		
S. BENEDICTI											
H. GRAYI											
OLIGOCHAETA 1							2				
P. LITORALIS				43	39					27	
M. DEMISSUS											
M. BALTHICA											
R. CUNEATA				4,702							
U. IMPROVISUS											
N. AMERICANA								17			
L. AMERICANUS							*				
E. TRILOBA											*
C. POLITA				67	189		3	6	92		
L. PLUMULOSUS				88							
C. LACUSTRE				1							
GAMMARUS SPP.				17	121						
PARAHAUSTORIUS SP.							47				
M. EDWARDSI				5							
C. SEPTemspINOSA					364		522				
R. HARRISII											
CHIRONOMIDAE				15	*						
ECTOPROCTA											
A. VIDOVICI							*				
MEMBRANIPORIDAE											
TOTALS				5,318	1,474		932	278	855		
PROPORTION				.159	.044		.028	.008	.026		

BENTHOS ESTIMATED MEAN BIOMASS 04/76  
(mg/m<sup>2</sup>)

LOCATION	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA			67					257			
G. FRANCISCANA		263	73	125				21			
H. GELATINOSA								47			
S. ARGENTEA			29	80				123			
RHYNCHOCOLLA		26	5				10				
ANNELIDA											
N. SUCCINEA		*	408				7				
POLYDORA			*								
S. VIRIDIS		143	320	113			187	350			
S. BENEDICTI							*				
H. GRAYI											
OLIGOCHAETA 1		3	131	19			60	172			
P. LITORALIS		7	19	13			5	13			
M. DEMISSUS			49								
M. BALTHICA		111	700	956				2,146			
R. CUNEATA											
U. IMPROVISUS			9,297								
N. AMERICANA											
L. AMERICANUS									*		
E. TRILOBA											
C. POLITA		29	125	11			27	145			
L. PLUMULOSUS							51				
C. LACUSTRE			5								
GAMMARUS SPP.		*	*	38							
PARAHAUSTORIUS SP.											
M. EDWARDSI		15									
C. SEPTemspINOSA			131								
R. HARRISII											
CHIRONOMIDAE											
ECTOPROCTA			*								
A. VIDOVICI		*	1	*			*				
MEMBRANIPORIDAE			*								
TOTALS		597	11,360	1,355			347	3,276			
PROPORTION		.018	.340	.041			.010	.098			

\* INSUFFICIENT MASS TO MEASURE

IA SNGS BN 1974

TABLE 10. - (CONTINUED)

BENTHOS ESTIMATED MEAN BIOMASS C4/76  
(mg/m<sup>2</sup>)

LOCATION	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3	TOTALS	PROPORTION
M. PROLIFERA			81	16			161		562	.017
G. FRANCISCANA			53	65			31		1,232	.037
H. GELATINOSA						13	*		19	.001
S. ARGENTEA				99			15		478	.014
RHYNCHOEOELA			127			9	48		382	.011
ANNELIDA							1		13	
N. SUCCINEA						103	3		521	.016
POLYDORA				1		99			100	.003
S. VIRIDIS			1,456	177		103	806		5,281	.158
S. BENEDICTI						*				
H. GRAYI						52			452	.014
OLIGOCHAETA 1			13			15	82		266	.008
P. LITORALIS			3						49	.001
M. DEMISSUS									3,915	.117
M. BALTHICA									4,702	.141
R. CUNEATA						22	272		9,591	.287
B. IMPROVISUS									17	.001
N. AMERICANA									3	
L. AMERICANUS						3			3	
E. TRILOBA							87		1,106	.033
C. POLITA			35	139		153			154	.005
L. PLUMULOSUS						15			7	
C. LACUSTRE			1			7			14	
GAMMARUS SPP.			59	1,251		13	*		1,499	.045
PARAHAUSTORIUS SP.									47	.001
M. EDWARDSI			11			5			36	.001
C. SEPTEMSPINOSA			470						1,487	.044
R. HARRISII						1,471			1,471	.044
CHIRONOMIDAE						1			16	
ECTOPROCTA										
A. VIDOVICI								1	2	
MEMBRANIPORIDAE										
TOTALS			2,306	1,748		2,084	1,507		33,437	
PROPORTION			.069	.052		.062	.045			

BENTHOS ESTIMATED MEAN BIOMASS C5/76  
(mg/m<sup>2</sup>)

LOCATION	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA						3					
C. CASPIA						30			9	*	
G. FRANCISCANA				3	32						
H. GELATINOSA				3	10		48			18	
S. ARGENTEA					*						
RHYNCHOEOELA				1	2		3	89			
ANNELIDA											
N. SUCCINEA											17
POLYDORA											31
S. VIRIDIS				56	478		32	1,284			
S. BENEDICTI											
OLIGOCHAETA				1	*						
OLIGOCHAETA 1											
P. LITORALIS				33	10					8	
GASTROPODA											
M. BALTHICA											
R. CUNEATA											
B. IMPROVISUS											
N. AMERICANA							13	1			
L. AMERICANUS											
C. ALMYRA				3	1		131	226			
C. POLITA				1	67			25		62	
L. PLUMULOSUS				70							
C. LACUSTRE											
GAMMARUS SPP.				3			18	67			
PARAHAUSTORIUS SP.							753				
M. EDWARDSI				*						3	
C. SEPTEMSPINOSA											
CHIRONOMIDAE				2							
ECTOPROCTA											
A. VIDOVICI						3					
MEMBRANIPORIDAE											
TOTALS				176	685		998	1,701	139		
PROPORTION				.018	.070		.102	.174	.014		

\* INSUFFICIENT MASS TO MEASURE

TABLE 10. - (CONTINUED)

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 05/76 (mg/m <sup>2</sup> )										
	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA				5							
C. CASPIA											
G. FRANCISCANA		108	31	4			9	7			
H. GELATINOSA			13					3			
S. ARGENTEA			17	82			13	18			
RHYNCHOCELA		52	3				1	9			
ANNELIDA								1			
N. SUCCINEA		37						44			
POLYDORA				23				103			
S. VIRIDIS		211	502	27			247	203			
S. BENEDICTI											
OLIGOCHAETA											
OLIGOCHAETA 1		19	11				113	80			
P. LITORALIS		4	12	*			4	68			
GASTROPODA							2				
M. BALTHICA		*						*			
R. CUNEATA								90			
B. IMPROVISUS			*				1	745			
N. AMERICANA			2	8			1	11			
L. AMERICANUS								1			
C. ALMYRA							1				
C. POLITA		43	100	95			66	121			
L. PLUMULOSUS		7					29				
C. LACUSTRE								2			
GAMMARUS SPP.		37	*	3			2	*			
PARAHAUSTORIUS SP.											
M. EDWARDSI							1				
C. SEPTEMSPINOSA		3					12	118			
CHIRONOMIDAE		2									
ECTOPROCTA			*								
A. VIDOVICI				6			*				
MEMBRANIPORIDAE			*					*			
TOTALS		523	697	249			518	1,624			
PROPORTION		.054	.071	.026			.053	.166			

BENTHOS ESTIMATED MEAN BIOMASS 05/76  
(mg/m<sup>2</sup>)

LOCATION	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3	TOTALS	PROPORTION
M. PROLIFERA							76		81	.008
C. CASPIA								3	3	
G. FRANCISCANA			*				6	256	256	.026
H. GELATINOSA				*				48	48	.005
S. ARGENTEA				6			9	224	224	.023
RHYNCHOCELA								83	83	.009
ANNELIDA			18				18	114	114	.012
N. SUCCINEA							54	136	136	.014
POLYDORA				39				180	180	.018
S. VIRIDIS			653				751	266	4,736	.485
S. BENEDICTI							*			
OLIGOCHAETA								1	1	
OLIGOCHAETA 1							200	423	423	.043
P. LITORALIS							11	123	273	.028
GASTROPODA								2	2	
M. BALTHICA							1	1	1	
R. CUNEATA								90	90	.009
B. IMPROVISUS				33				779	779	.080
N. AMERICANA			5				2	54	54	.006
L. AMERICANUS								1	1	
C. ALMYRA			34				*	396	396	.041
C. POLITA			66	6			12	701	701	.072
L. PLUMULOSUS							15	121	121	.012
C. LACUSTRE							*	2	2	
GAMMARUS SPP.			6	11			*	147	147	.015
PARAHAUSTORIUS SP.								753	753	.077
M. EDWARDSI			1				2	7	7	.001
C. SEPTEMSPINOSA			1					134	134	.014
CHIRONOMIDAE								4	4	
ECTOPROCTA										
A. VIDOVICI			*					9	9	.001
MEMBRANIPORIDAE										
TOTALS			784	97		1,066	502		9,759	
PROPORTION			.020	.010		.109	.051			

\* INSUFFICIENT MASS TO MEASURE

IA SNGS BN 1976

TABLE 10. - (CONTINUED)

BENTHOS ESTIMATED MEAN BIOMASS 06/76  
(mg/m<sup>2</sup>)

LOCATION	T151	T152	T153	T251	T252	T253	T351	T352	T353	T354	T355
M. PROLIFERA								6			
G. FRANCISCANA				15	112		5	21	21		
H. GELATINOSA				*						7	
S. ARGENTEA											
S. ELLIPTICUS							5	7	25		
RHYNCHOCELA					3		4	9			
ANNELIDA											
L. CULVERI										7	
N. SUCCINEA											
POLYDORA							1,014	169	13		
S. VIRIDIS				323	277						
S. BENEDICTI							1				
OLIGOCHAETA 1											
P. LITORALIS				41	6					9	
TURBONILLA											
PELECYPODA				1						3	
M. DEMISSUS											
C. VIRGINICA											
M. BALTHICA											
R. CUNEATA											
B. IMPROVISUS					2		1	3	51		
N. AMERICANA				25	6			15	8		
L. AMERICANUS											
C. ALMYRA					58		6	691			
E. TRILOBA											
C. POLITA				7	*		65	3	39		
L. PLUMULOSUS				101	2						
C. LACUSTRE											
GAMMARUS SPP.				2			2		55		
M. NITIDA											
M. EDWARDSI					1						
PARAPLEUSTES											
C. SEPTEMSPINOSA							84	75			
R. HARRISII											
CHIRONOMIDAE				3							
ECTOPROCTA											
A. VIDOVICI							3				
MEMBRANIPORIDAE											
TOTALS				518	467		1,190	999	238		
PROPORTION				.025	.022		.057	.048	.011		

BENTHOS ESTIMATED MEAN BIOMASS 06/76  
(mg/m<sup>2</sup>)

LOCATION	T356	T451	T452	T453	T454	T455	T551	T552	T553	T554	T651
M. PROLIFERA			539								
G. FRANCISCANA		103	12	113			1	9			
H. GELATINOSA			3	3							
S. ARGENTEA		1	43	60				145			
S. ELLIPTICUS			2					9			
RHYNCHOCELA		189	4				59	10			
ANNELIDA											
L. CULVERI		125									
N. SUCCINEA			268					381			
POLYDORA							1	2			
S. VIRIDIS		187	142	83			564	919			
S. BENEDICTI								*			
OLIGOCHAETA 1		40	82				543	311			
P. LITORALIS		1	12	*			11	19			
TURBONILLA							5				
PELECYPODA											
M. DEMISSUS			3					51			
C. VIRGINICA			233								
M. BALTHICA		3	21					66			
R. CUNEATA											
B. IMPROVISUS			2,422				139	2,761			
N. AMERICANA		2	26	17			3	95			
L. AMERICANUS			1	1				3			
C. ALMYRA											
E. TRILOBA											
C. POLITA		39	23				191	155			
L. PLUMULOSUS							81				
C. LACUSTRE							7	3			
GAMMARUS SPP.				21				27			
M. NITIDA								1			
M. EDWARDSI				1							
PARAPLEUSTES								1			
C. SEPTEMSPINOSA								576			
R. HARRISII								15			
CHIRONOMIDAE											
ECTOPROCTA											
A. VIDOVICI					1			1			
MEMBRANIPORIDAE								*			
TOTALS		690	3,836	300			1,605	5,361			
PROPORTION		.033	.184	.014			.077	.267			

\* INSUFFICIENT MASS TO MEASURE

IA SNGS BN 1976

TABLE 10. - (CONTINUED)

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 06/76 (mg/m <sup>2</sup> )								TOTALS	PROPORTION
	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3		
M. PROLIFERA									545	.026
G. FRANCISCANA			14			3	8		437	.021
H. GELATINOSA									6	
S. ARGENTEA			30	42			88		416	.020
S. ELLIPTICUS							*		11	.001
RHYNCHOCELA			*			94	126		519	.025
ANNELIDA			1						17	.001
L. CULVERI									125	.006
N. SUCCINEA		146				60	90		952	.046
POLYDORA				48			*		51	.002
S. VIRIDIS		499		3		487	1,947		6,627	.318
S. BENEDICTI						4			4	
OLIGOCHAETA 1			2			175	30		1,184	.057
P. LITORALIS			*			5	28		132	.006
TURBONILLA									5	
PELECYPODA									4	
M. DEMISSUS									54	.003
C. VIRGINICA									233	.011
M. BALTHICA						57	68		215	.010
R. CUNEATA						4			4	
B. IMPROVISUS							341		5,720	.275
N. AMERICANA			19			51	23		290	.014
L. AMERICANUS									5	
C. ALMYRA			3						758	.036
E. TRILOBA								1	2	
C. POLITA			22	29		73	515		1,161	.056
L. PLUMULOSUS						5			189	.009
C. LACUSTRE				2			4		16	.001
GAMMARUS SPP.			66			4	7		184	.009
M. NITIDA									1	
M. EDWARDSI									2	
PARAPLEUSTES									1	
C. SEPTemspINOSA			158			24			917	.044
R. HARRISII									15	.001
CHIRONOMIDAE									3	
ECTOPROCTA										
A. VIDOVICI			3						8	
MEMBRANIPORIDAE										
TOTALS			963	124		1,046	3,276		20,813	
PROPORTION			.046	.006		.050	.157			

BENTHOS ESTIMATED MEAN BIOMASS 07/76  
(mg/m<sup>2</sup>)

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 07/76 (mg/m <sup>2</sup> )										
	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
C. CASPIA					163		2	1			
G. FRANCISCANA				82	802		5	2		1	
H. GELATINOSA				3	39						
S. ARGENTEA					77		1			3	
S. ELLIPTICUS											
RHYNCHOCELA					5		9	5			
ANNELIDA								5			
PELECYPODA											
L. CULVERI											
N. SUCCINEA										3	
POLYDORA										58	
S. VIRIDIS				277	419		205	105		33	
S. BENEDICTI											
OLIGOCHAETA				1							
OLIGOCHAETA 1											
P. LITORALIS				29	18						
GASTROPODA											
PYRAMIDELLIDAE											
M. DEMISSUS											
C. LEUCOPHAETA											
M. BALTHICA											
M. TENTA											
MACTRIDAE											
M. LATERALIS											
M. ARENARIA											
B. IMPROVISUS											
N. AMERICANA					27			3			
L. AMERICANUS											
C. ALMYRA					20		87	30			
E. TRILOBA											
C. POLITA				27	73		53			51	
L. PLUMULOSUS				98	3						
C. LACUSTRE											
GAMMARUS SPP.											
M. NITIDA											
PARAHAUSTORIUS SP.							32	51			
M. EDWARDSI				1							
C. SEPTemspINOSA							360				
R. HARRISII											
CHIRONOMIDAE				2							
ECTOPROCTA											
A. VIDOVICI					3						
MEMBRANIPORIDAE											
TOTALS				520	1,649		754	202	149		
PROPORTION				.036	.115		.053	.014	.010		

\* INSUFFICIENT MASS TO MEASURE

IA SNGS BN 1976

TABLE 10. - (CONTINUED)

LOCATION	BENTHOS ESTIMATED MEAN-BIOMASS 07/76 (mg/m <sup>2</sup> )										
	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
C. CASPIA							3				
G. FRANCISCANA		369	24	1							
H. GELATINOSA					12			32			
S. ARGENTEA			41					5			
S. ELLIPTICUS			10					53			
RHYNCHOCELA		5	3								
ANNELIDA											
E. HETEROPODA											
L. CULVERI		7					11	180			
N. SUCCINEA			583				4	255			
POLYDORA			7	2			110	542			
S. VIRIDIS		248	83	27			7				
S. BENEDICTI											
OLIGOCHAETA		*					17	53			
OLIGOCHAETA 1		55	27				5	10			
P. LITORALIS		6	10	*							
GASTROPODA											1
PYRAMIDELLIDAE			2,543								
M. DEMISSUS			47								
C. LEUCOPHAETA		30	72					89			
M. BALTHICA											
M. TENTA											
MACTRIDAE											3
M. LATERALIS											2
M. ARENARIA											119
B. IMPROVISUS			1,217		1		21	14			*
N. AMERICANA											*
L. AMERICANUS			*		2						
C. ALMYRA							4	5			
E. TRILOBA			*				23	183			
C. POLITA		39	17	1			16				
L. PLUMULOSUS							17				
C. LACUSTRE			16				3	4			
GAMMARUS SPP.			17	1							
M. NITIDA			5								
PARAHAUSTORIUS SP.											4
M. EDWARDSI							7				
C. SEPTEMSPINOSA											
R. HARRISII			3								
CHIRONOMIDAE											*
ECTOPROCTA											*
A. VIDOVICI											*
MEMBRANIPORIDAE											*
TOTALS		759	4,727	47			248	1,554			
PROPORTION		.053	.331	.003			.017	.109			

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 07/76 (mg/m <sup>2</sup> )							TOTALS	PROPORTION
	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2		
C. CASPIA								166	.012
G. FRANCISCANA					1			1,292	.090
H. GELATINOSA								42	.003
S. ARGENTEA			17	117				309	.022
S. ELLIPTICUS								16	.001
RHYNCHOCELA			*					121	.008
ANNELIDA								5	
E. HETEROPODA								7	
L. CULVERI							1	813	.057
N. SUCCINEA							35	333	.023
POLYDORA					7			3,635	.254
S. VIRIDIS			424	35		212	915	9	.001
S. BENEDICTI						2		1	
OLIGOCHAETA								316	.022
OLIGOCHAETA 1			21			143		85	.006
P. LITORALIS			1			3		3	
GASTROPODA								3	
PYRAMIDELLIDAE								1	
M. DEMISSUS								2,543	.178
C. LEUCOPHAETA								47	.003
M. BALTHICA						3	31	225	.016
M. TENTA							36	36	.003
MACTRIDAE							1	1	
M. LATERALIS								2	
M. ARENARIA								351	.118
B. IMPROVISUS						3	34	104	.007
N. AMERICANA			1	*			*		
L. AMERICANUS								152	.011
C. ALMYRA			13					12	.001
E. TRILOBA						3		714	.050
C. POLITA			51	15		32	149	125	.009
L. PLUMULOSUS					2	7	1	37	.003
C. LACUSTRE					3			37	.003
GAMMARUS SPP.					1			6	
M. NITIDA								83	.006
PARAHAUSTORIUS SP.								5	
M. EDWARDSI			*					614	.043
C. SEPTEMSPINOSA			137	110		*		700	.049
R. HARRISII				697				2	
CHIRONOMIDAE									
ECTOPROCTA									
A. VIDOVICI								3	
MEMBRANIPORIDAE									
TOTALS			665	988		450	1,580	14,292	
PROPORTION			.047	.069		.031	.111		

\* INSUFFICIENT MASS TO MEASURE

TABLE 10. - (CONTINUED)

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 06/76 (mg/m <sup>2</sup> )										
	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA											
G. FRANCISCANA				45	93			1		29	
S. ARGENTEA					1					36	
RHYNCHOCELA				2							
ANNELIDA							*	1			
N. SUCCINEA										3	
POLYDORA										28	
S. VIRIDIS				92	185		151	176		17	
S. BENEDICTI					*						
OLIGOCHAETA											
OLIGOCHAETA 1											
P. LITORALIS				10	17					7	
GASTROPODA											
D. OBSCURA				*						11	
M. BALTHICA											
M. LATERALIS											
R. CUNEATA				197							
B. IMPROVISUS					847					129	
N. AMERICANA								1	1	15	
L. AMERICANUS											
C. ALMYRA					3		32	245			
E. TRILOBA											
C. POLITA				1	3					64	
L. PLUMULOSUS				31							
C. LACUSTRE					40						
GAMMARUS SPP.					38					15	
M. NITIDA											
PARAHAUSTORIUS SP.							53	41			
M. EDWARDSI											
C. SEPTEMSPINOSA					69					10	
C. SAPIDUS				40							
R. HARRISII					1					548	
ECTOPROCTA											
A. VIDOVICI											
MEMBRANIPORIDAE											
TOTALS				418	1,297		237	465		912	
PROPORTION				.028	.087		.016	.031		.061	

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 06/76 (mg/m <sup>2</sup> )										
	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA					103						.87
G. FRANCISCANA			52	155	128					13	
S. ARGENTEA				23	23					155	
RHYNCHOCELA		9	13	1			19	32			
ANNELIDA											
N. SUCCINEA				256			162				
POLYDORA				2			10				
S. VIRIDIS		539	278	589			204	659			
S. BENEDICTI							13	1			
OLIGOCHAETA							*	*			
OLIGOCHAETA 1		19					151	157			
P. LITORALIS		3	15	3			5	9			
GASTROPODA											
D. OBSCURA			*								
M. BALTHICA		13	151	9			91	445			
M. LATERALIS								23			
R. CUNEATA											
B. IMPROVISUS			1,417				125	5			
N. AMERICANA			3	23				13			
L. AMERICANUS		4						2			
C. ALMYRA											
E. TRILOBA		7	7	1			3				
C. POLITA		3	73	30			188	49			
L. PLUMULOSUS							65				
C. LACUSTRE			3	*			38				
GAMMARUS SPP.			4	*							
M. NITIDA			10					5			
PARAHAUSTORIUS SP.								*			
M. EDWARDSI				4				1			
C. SEPTEMSPINOSA		19	36	13				79			
C. SAPIDUS											
R. HARRISII							161	215			
ECTOPROCTA			*								
A. VIDOVICI			1	*							
MEMBRANIPORIDAE			*								
TOTALS		488	2,387	907			1,235	1,950			
PROPORTION		.033	.159	.060			.082	.130			

\* INSUFFICIENT MASS TO MEASURE

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TABLE 10. - (CONTINUED)

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 06/76 (mg/m <sup>2</sup> )								TOTALS	PROPORTION
	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3		
M. PROLIFERA			312						502	.033
G. FRANCISCANA			7			2	110		635	.042
S. ARGENTEA				21			187		446	.030
RHYNCHOCELA						27	22		125	.008
ANMELIDA							8		436	.029
N. SUCCINEA				2		5	1		80	.005
POLYDORA				39					4,730	.315
S. VIRIDIS			102	3		536	1,459		22	.001
S. BENEDICTI						7	1			
OLIGOCHAETA									466	.031
OLIGOCHAETA 1			3			77	59		94	.006
P. LITORALIS			1	1		5	18			
GASTROPODA										
D. OBSCURA						129	37		886	.059
M. BALTHICA							61		84	.006
M. LATERALIS									197	.013
R. CUNEATA								155	2,678	.179
B. IMPROVISUS							28		91	.006
N. AMERICANA			4			3			11	.001
L. AMERICANUS						5			379	.025
C. ALMYRA			99						18	.001
E. TRILOBA				*					18	.001
C. POLITA			17	64		56	475		1,023	.068
L. PLUMULOSUS						11			107	.007
C. LACUSTRE						3	2		86	.006
GAMMARUS SPP.			23	3		2	57		147	.010
M. NITIDA							5		15	.001
PARAHAUSTORIUS SP.									94	.006
M. EDWARDSI						2			7	
C. SEPTEMSPINOSA			63	51					340	.023
C. SAPIDUS									40	.003
R. HARRISII								327	1,252	.084
ECTOPROCTA										
A. VIDOVICI									1	
MEMBRANIPORIDAE										
TOTALS			631	184		870	3,012		14,993	
PROPORTION			.042	.012		.058	.201			

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 09/76 (mg/m <sup>2</sup> )										
	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA					19		83				
G. FRANCISCANA				19	142		32	100		17	
H. GELATINOSA											
S. ARGENTEA				3	8		17	13		4	
S. ELLIPTICUS					1						
E. GRACILIS											
RHYNCHOCELA				12			32	20			
E. HETEROPODA											
N. SUCCINEA											
G. DIBRANCHIATA											
GONIADIDAE											
POLYDORA				338	51		565	1,025		3	45
S. VIRIDIS											
S. BENEDICTI											
OLIGOCHAETA				2							
OLIGOCHAETA 1							71	7			
P. LITORALIS				77	1		2				
GASTROPODA											
D. OBSCURA											
PELECYPODA											
C. VIRGINICA											
M. BALTHICA				15							
M. TENTA											
M. LATERALIS											
R. CUNEATA											
M. ARENARIA											
B. IMPROVISUS					43		3				
N. AMERICANA				5			6	18		3	
L. AMERICANUS											
C. ALMYRA					45		19	19			
E. TRILOBA				1			2			10	
C. POLITA				5	5		49			7	
L. PLUMULOSUS				33			4				
C. LACUSTRE				5	41						
GAMMARUS SPP.				3			3			3	
M. NITIDA											
PARAHAUSTORIUS SP.									1		
M. EDWARDSI				6			3				
PARAPLEUSTES											
C. SEPTEMSPINOSA				17							
C. SAPIDUS											
R. HARRISII											
CHIRONOMIDAE				1							
ECTOPROCTA											
MEMBRANIPORIDAE											
M. MANHATTENSIS											
TOTALS				542	356		891	1,203		92	
PROPORTION				.020	.013		.033	.045		.003	

\* INSUFFICIENT MASS TO MEASURE

TABLE 10. - (CONTINUED)

BENTHOS ESTIMATED MEAN BIOMASS C9/76  
(mg/m<sup>2</sup>)

LOCATION	T356	T451	T452	T453	T454	T455	T551	T552	T553	T554	T651
M. PROLIFERA				13				2,739			
G. FRANCISCANA		514	84	13				139			
H. GELATINOSA				11							
S. ARGENTEA		23	48	62							
S. ELLIPTICUS								16			
E. GRACILIS			3					1			
RHYNCHOCELA		1	15	14				18			
E. HETEROPODA				3			13				
N. SUCCINEA			1,427	5							
G. DIBRANCHIATA			1				3	240			
GONIADIDAE								*			
POLYDORA			17	86							
S. VIRIDIS		530	207	37							
S. BENEDICTI			4				125	502			
OLIGOCHAETA							17	1			
OLIGOCHAETA 1		39	88								
P. LITORALIS		6	14	3			164	187			
GASTROPODA							5	4			
D. OBSCURA			1				*				
PELECYPODA				3							
C. VIRGINICA											
M. BALTHICA		942	206					1,277			
M. TENTA								256			
M. LATERALIS								18			
R. CUNEATA							2				
M. ARENARIA											
B. IMPROVISUS			6,438	43			3				
N. AMERICANA			37	1			94	2,169			
L. AMERICANUS		8					2				
C. ALMYRA							1				
E. TRILOBA			5	6				9			
C. POLITA		3	135	107							
L. PLUMULOSUS		*					134	137			
C. LACUSTRE			208	6			51				
GAMMARUS SPP.							1	*			
M. NITIDA			8								
PARAHAUSTORIUS SP.											7
M. EDWARDSI		1									
PARAPLEUSTES							*	*			
C. SEPTemspINOSA			1,664	85			139	*			
C. SAPIDUS											
R. HARRISII			127								
CHIRONOMIDAE											
ECTOPROCTA			*								
MEMBRANIPORIDAE			*				*	*			
M. MANHATTENSIS								8			
TOTALS		2,067	10,737	498			763	7,719			
PROPORTION		.077	.402	.019			.029	.289			

BENTHOS ESTIMATED MEAN BIOMASS C9/76  
(mg/m<sup>2</sup>)

LOCATION	T652	T653	T751	T752	T753	T851	T852	T853	TOTALS	PROPORTION
M. PROLIFERA									2,854	.107
G. FRANCISCANA			10	17		2	23		1,112	.042
H. GELATINOSA									11	
S. ARGENTEA					39		35		268	.010
S. ELLIPTICUS									4	
E. GRACILIS									4	
RHYNCHOCELA			3						174	.007
E. HETEROPODA						34	12		3	
N. SUCCINEA				1		42			1,724	.065
G. DIBRANCHIATA								3	4	
GONIADIDAE										
POLYDORA										
S. VIRIDIS				27		16			149	.006
S. BENEDICTI			123			241	307		4,096	.153
OLIGOCHAETA						11	*		33	.001
OLIGOCHAETA 1									2	
P. LITORALIS			26			169	4		755	.028
GASTROPODA						15	6		133	.005
D. OBSCURA									1	
PELECYPODA									3	
C. VIRGINICA										
M. BALTHICA									1,277	.048
M. TENTA						133	23		1,569	.059
M. LATERALIS									18	.001
R. CUNEATA							23		25	.001
M. ARENARIA						29			29	.001
B. IMPROVISUS						1			4	
N. AMERICANA				7					6,797	.329
L. AMERICANUS				21			35		128	.005
C. ALMYRA						9	1		19	.001
E. TRILOBA			3	1					83	.003
C. POLITA			4	76		3	*		40	.001
L. PLUMULOSUS						135	60		857	.032
C. LACUSTRE						4			92	.003
GAMMARUS SPP.				3		3	4		271	.010
M. NITIDA				7					16	.001
PARAHAUSTORIUS SP.									15	.001
M. EDWARDSI			1						1	
PARAPLEUSTES						7			18	.001
C. SEPTemspINOSA										
C. SAPIDUS									1,905	.071
R. HARRISII				60		5			65	.002
CHIRONOMIDAE						26			153	.006
ECTOPROCTA									1	
MEMBRANIPORIDAE										
M. MANHATTENSIS									8	
TOTALS			170	259		885	536		26,718	
PROPORTION			.006	.010		.033	.020			

\* INSUFFICIENT MASS TO MEASURE

TABLE 10. - (CONTINUED)

BENTHOS ESTIMATED MEAN BIONASS 12/76  
(mg/m<sup>2</sup>)

LOCATION	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA								950			
HYDROZOA							1	*			
G. FRANCISCANA		40	35	5			7	85			
H. GELATINOSA			1								
S. ARGENTEA			7	105				175			
D. LEUCOLENA			*								
S. ELLIPTICUS			*								
E. GRACILIS			*								
RHYNCHOCELA		2		5			11	8			
ANNELIDA		*									
E. HETEROPODA							5				
N. SUCCINEA		3	825	1			143	144			
POLYDORA			1	301			213	1			
S. VIRIDIS		106	16	25			33	72			
S. BENEDICTI							22	4			
S. VULGARIS								*			
OLIGOCHAETA											
OLIGOCHAETA 1		39		9			49	66			
P. LITORALIS		12	5	7			22	49			
PYRAMIDELLIDAE							1				
M. DEMISSUS			275					496			
C. VIRGINICA			1,171					6,781			
M. BALTHICA		277	206	14				495			
M. TENTA											
M. ARENARIA							21	5			
B. IMPROVISUS			10,523	810			1,003	2,474			
N. AMERICANA											
C. ALMYRA		9		36							
C. POLITA		19	29	210			257	161			
L. PLUMULOSUS		*					21				
C. LACUSTRE		2	62	9			19	48			
GAMMARUS SPP.			163				3	57			
M. NITIDA			*					1			
PARAHAUSTORIUS SP.											
M. EDWARDSI		2	*								
C. SEPTEMSPINOSA											
C. SAPIDUS											
R. HARRISII			583	61				25			
ECTOPROCTA			*								
A. VIDVICI			*				5	*			
MEMBRANIPORIDAE			*	*			*	*			
H. MANHATTENSIS								2			
TOTALS		511	13,902	1,598			1,836	12,099			
PROPORTION		.013	.363	.042			.048	.316			

BENTHOS ESTIMATED MEAN BIONASS 12/76  
(mg/m<sup>2</sup>)

LOCATION	T6S2	T6S3	T7S1	T7S2	T7S3	T8S1	T8S2	T8S3	TOTALS	PROPORTION
M. PROLIFERA							127		1,077	.028
HYDROZOA								1	1	
G. FRANCISCANA			*	11		26	13		473	.012
H. GELATINOSA							5		17	
S. ARGENTEA			2	36		9	40		1,420	.037
D. LEUCOLENA									23	.001
S. ELLIPTICUS										
E. GRACILIS										
RHYNCHOCELA				3		22	56		117	.003
ANNELIDA			5	1		3	1		34	.001
E. HETEROPODA									5	
N. SUCCINEA				6		44			1,167	.030
POLYDORA				67					620	.016
S. VIRIDIS			337	31		51	390		3,396	.089
S. BENEDICTI							1		27	.001
S. VULGARIS										
OLIGOCHAETA						*			3	
OLIGOCHAETA 1						90	1		257	.007
P. LITORALIS			*			21	30		214	.006
PYRAMIDELLIDAE									1	
M. DEMISSUS									771	.020
C. VIRGINICA									7,952	.207
M. BALTHICA						299	51		1,342	.035
M. TENTA						31			31	.001
M. ARENARIA							1		27	.001
B. IMPROVISUS									14,950	.390
N. AMERICANA							9		9	
C. ALMYRA			59	6			9		226	.006
C. POLITA			15	104		65	96		1,099	.029
L. PLUMULOSUS						*			78	.002
C. LACUSTRE				17					160	.004
GAMMARUS SPP.			53	425					772	.020
M. NITIDA									1	
PARAHAUSTORIUS SP.			44						164	.004
M. EDWARDSI			7	5		1	1		26	.001
C. SEPTEMSPINOSA						98			98	.003
C. SAPIDUS						693			693	.018
R. HARRISII				405					1,074	.028
ECTOPROCTA										
A. VIDVICI						*	1		13	
MEMBRANIPORIDAE										
H. MANHATTENSIS									2	
TOTALS			522	1,117		1,453	832		38,340	
PROPORTION			.014	.029		.038	.022			

\* INSUFFICIENT MASS TO MEASURE

IA SNGS BN 1976

TABLE 10. - (CONTINUED)

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 10/76 (mg/m <sup>2</sup> )										
	T1S1	T1S2	T1S3	T2S1	T2S2	T2S3	T3S1	T3S2	T3S3	T3S4	T3S5
M. PROLIFERA				20	165		36	24	3		
G. FRANCISCANA				2	127		5		37		
S. ARGENTEA											
S. ELLIPTICUS											
E. GRACILIS				5				1	8		
RHYNCHOCELA					3						
ANNELIDA											
E. HETEROPODA											
NEREIDAE											
N. SUCCINEA											
G. DIBRANCHIATA										8	
POLYDORA				95	655		541	140	255		
S. VIRIDIS											
S. BENEDICTI											
S. VULGARIS							14				
OLIGOCHAETA 1				5	23		3		8		
P. LITORALIS											
D. OBSCURA											
M. DEMISSUS										12	
C. VIRGINICA											
M. BALTHICA											
M. TENTA				19							
R. CUNEATA											
M. ARENARIA					1,604						
B. IMPROVISUS					1		5	1	25		
N. AMERICANA											
L. AMERICANUS							73	166			
C. ALMYRA											
E. TRILOBA				22	33		3		37		
C. POLITA				11							
L. PLUMULOSUS											
C. LACUSTRE					83					1	
GAMMARUS SPP.								18	41		
M. NITIDA											
PARAHAUSTORIUS SP.				3			80			2	
M. EDWARDSI									3		
PARAPLEUSTES									24		
C. SEPTHEMSPINOSA					369						
K. HARRISII											
ECTOPROCTA											
MEMBRANIPORIDAE											
M. MANHATTENSIS											
TOTALS				182	3,063		760	379	437		
PROPORTION				.007	.121		.030	.015	.017		

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 10/76 (mg/m <sup>2</sup> )										
	T3S6	T4S1	T4S2	T4S3	T4S4	T4S5	T5S1	T5S2	T5S3	T5S4	T6S1
M. PROLIFERA				16				285			
G. FRANCISCANA		339	5	388				73			
S. ARGENTEA			69	42				1,048			
S. ELLIPTICUS								3			
E. GRACILIS		5	5	15			15	89			
RHYNCHOCELA											
ANNELIDA											
E. HETEROPODA											
NEREIDAE											
N. SUCCINEA				861	2		59	46			
G. DIBRANCHIATA								1			
POLYDORA					57		3				
S. VIRIDIS		307	211	52			137	190			
S. BENEDICTI		2	1				9	1			
S. VULGARIS								3			
OLIGOCHAETA 1		35	129	33			53	304			
P. LITORALIS		7	8	3			7	15			
D. OBSCURA								1			
M. DEMISSUS			3					593			
C. VIRGINICA			9					4,375			
M. BALTHICA		140	96				30	683			
M. TENTA											
R. CUNEATA											
M. ARENARIA							1				
B. IMPROVISUS			4,637	17			2	226			
N. AMERICANA		2		1			2	3			
L. AMERICANUS				1							
C. ALMYRA											
E. TRILOBA		3						1			
C. POLITA		19	73	52			86	232			
L. PLUMULOSUS							34				
C. LACUSTRE			31							4	
GAMMARUS SPP.			1							68	
M. NITIDA			1							15	
PARAHAUSTORIUS SP.											
M. EDWARDSI										2	
PARAPLEUSTES											
C. SEPTHEMSPINOSA			797								
K. HARRISII			867								
ECTOPROCTA											
MEMBRANIPORIDAE											
M. MANHATTENSIS										11	
TOTALS		659	7,798	679			438	8,272			
PROPORTION		.034	.308	.027			.017	.326			

\* INSUFFICIENT MASS TO MEASURE

TABLE 10. - (CONTINUED)

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 10/76 (mg/m <sup>2</sup> )						TOTALS	PROPORTION	
	T652	T653	T751	T752	T753	T851			
M. PROLIFERA							301	.012	
G. FRANCISCANA			11			*	1,113	.044	
S. ARGENTEA			9	15			1,357	.054	
S. ELLIPTICUS							3		
E. GRACILIS									
RHYNCHOCELA			5			6	167	.007	
ANNELIDA							3		
E. HETEROPODA						1	1		
NEREIDAE									
N. SUCCINEA						11	979	.039	
G. DIBRANCHIATA							1		
POLYDORA				57		10	135	.005	
S. VIRIDIS			793	13		103	3,622	.143	
S. BENEDICTI						7	20	.001	
S. VULGARIS							3		
OLIGOCHAETA 1			1			90	659	.026	
P. LITORALIS			1			7	94	.004	
D. OBSCURA							1		
M. DEMISSUS							596	.024	
C. VIRGINICA							4,384	.173	
M. BALTHICA			21			33	1,009	.040	
M. TENTA							19	.001	
R. CUNEATA						*	1		
M. ARENARIA							6,486	.256	
B. IMPROVISUS							68	.003	
N. AMERICANA			22			1	1		
L. AMERICANUS						*	239	.009	
C. ALMYRA				6			10		
E. TRILOBA			41	17		29	677	.027	
C. POLITA						3	50	.002	
L. PLUMULOSUS							126	.005	
C. LACUSTRE				7			214	.008	
GAMMARUS SPP.				86			16	.001	
M. NITIDA							80	.003	
PARAHAUSTORIUS SP.							13	.001	
M. EDWARDSI			1				2		
PARAPLEUSTES							1,190	.047	
C. SEPTEMSPINOSA							1,706	.067	
R. HARRISII				839					
ECTOPROCTA									
MEMBRANIPORIDAE									
M. MANHATTENSIS							11		
TOTALS			905	1,040		303	242	25,357	
PROPORTION			.036	.041		.012	.010		

LOCATION	BENTHOS ESTIMATED MEAN BIOMASS 12/76 (mg/m <sup>2</sup> )									
	T151	T152	T153	T251	T252	T253	T351	T352	T353	T354
M. PROLIFERA										
HYDROZOA										
G. FRANCISCANA				31	23		1	167	29	
H. GELATINOSA				2	9		*			
S. ARGENTEA				7	1,017		6	5	11	
D. LEUCOLENA									23	
S. ELLIPTICUS										
E. GRACILIS										
RHYNCHOCELA				10	*					
ANNELIDA				8	2		1	13		
E. HETEROPODA										
N. SUCCINEA										
POLYDORA					1					
S. VIRIDIS							6		31	
S. BENEDICTI				557	1,680		73	19	6	
S. VULGARIS										
OLIGOCHAETA				3						
OLIGOCHAETA 1										
P. LITORALIS				37	23		3			
PYRAMIDELLIDAE									8	
M. DEMISSUS										
C. VIRGINICA										
M. BALTHICA										
M. TENTA										
M. ARENARIA										
B. IMPROVISUS					140					
N. AMERICANA										
C. ALMYRA					76		11	20		
C. POLITA				32	62					
L. PLUMULOSUS				57					49	
C. LACUSTRE				1	2					
GAMMARUS SPP.				18	34		1	17	1	
M. NITIDA										
PARAHAUSTORIUS SP.								120		
M. EDWARDSI				5						
C. SEPTEMSPINOSA									5	
C. SAPIDUS										
R. HARRISII										
ECTOPROCTA										
A. VIDOVICI				5	1					1
MEMBRANIPORIDAE										
M. MANHATTENSIS										
TOTALS				773	3,070		102	361	164	
PROPORTION				.020	.080		.003	.009	.004	

\* INSUFFICIENT MASS TO MEASURE

## BENTHOS SEASONAL MEAN ABUNDANCE

1976

TABLE 11.

SEASON	TEMP. (C)	RANGE	MEAN	01/01 - 02/29				03/01 - 06/15			
				DENSITY		BIOMASS		DENSITY		BIOMASS	
SAL. (PPT)	RANGE	MEAN	MEAN %		MEAN %		MEAN %		MEAN %		
			2.0	5.5	10	0.39	2	0.16	20	1.45	
			3.1		66	2.58	25	2.06	81	5.90	
			2.0	5.0	6	0.23	15	1.23	14	1.02	
			3.7		624	24.47	572	47.15	401	29.22	
					23	0.90	411	33.68	41	2.98	
					66	2.58	6	0.49	333	24.27	
					1,474	57.80	45	3.70	248	18.07	
							5	0.41	2	0.14	
					71	4.78	133	5.21	68	6.04	
					68	5.93	25	0.98	62	5.24	
					5	0.33	123	4.82	2	0.16	
									77	5.61	
					1,483		2,550		1,213		
									1,372		

SEASON	TEMP. (C)	RANGE	MEAN	06/16 - 09/15				09/16 - 11/30			
				DENSITY		BIOMASS		DENSITY		BIOMASS	
SAL. (PPT)	RANGE	MEAN	MEAN %		MEAN %		MEAN %		MEAN %		
			22.1	25.8	70	5.10	1	0.07	21	1.16	
			24.1		92	6.70	20	1.59	176	9.72	
			2.0	10.0	17	1.23	28	2.23	12	0.66	
			5.4		426	31.04	382	30.48	340	18.79	
					57	4.15	267	21.30	54	2.98	
					133	9.69	76	2.07	429	23.71	
					849	41.51	337	24.56	239	19.07	
					27	1.32	11	0.80	20	1.59	
					5	0.24	1	0.07	2	0.15	
					173	8.45	93	6.77	93	7.42	
					140	6.84	28	2.04	170	13.56	
					7	0.34	107	7.79	5	0.39	
									207	11.44	
					2,045		1,372		1,253		
									1,809		

SEASON	TEMP. (C)	RANGE	MEAN	12/01 - 12/31				
				DENSITY		BIOMASS		
SAL. (PPT)	RANGE	MEAN	MEAN %		MEAN %			
			1.8	2.3	77	2.81		
			1.9		138	5.04		
			2.0	7.0	8	0.29		
			3.5		373	13.63		
					34	1.24		
					723	26.42		
					1,068	39.03		
					1	0.03		
					122	3.36	95	3.47
					290	8.00	66	3.14
					6	0.16	133	4.86
					3,623		2,736	

\* BELOW REPORTABLE LEVEL

IA SHGS BP 1976

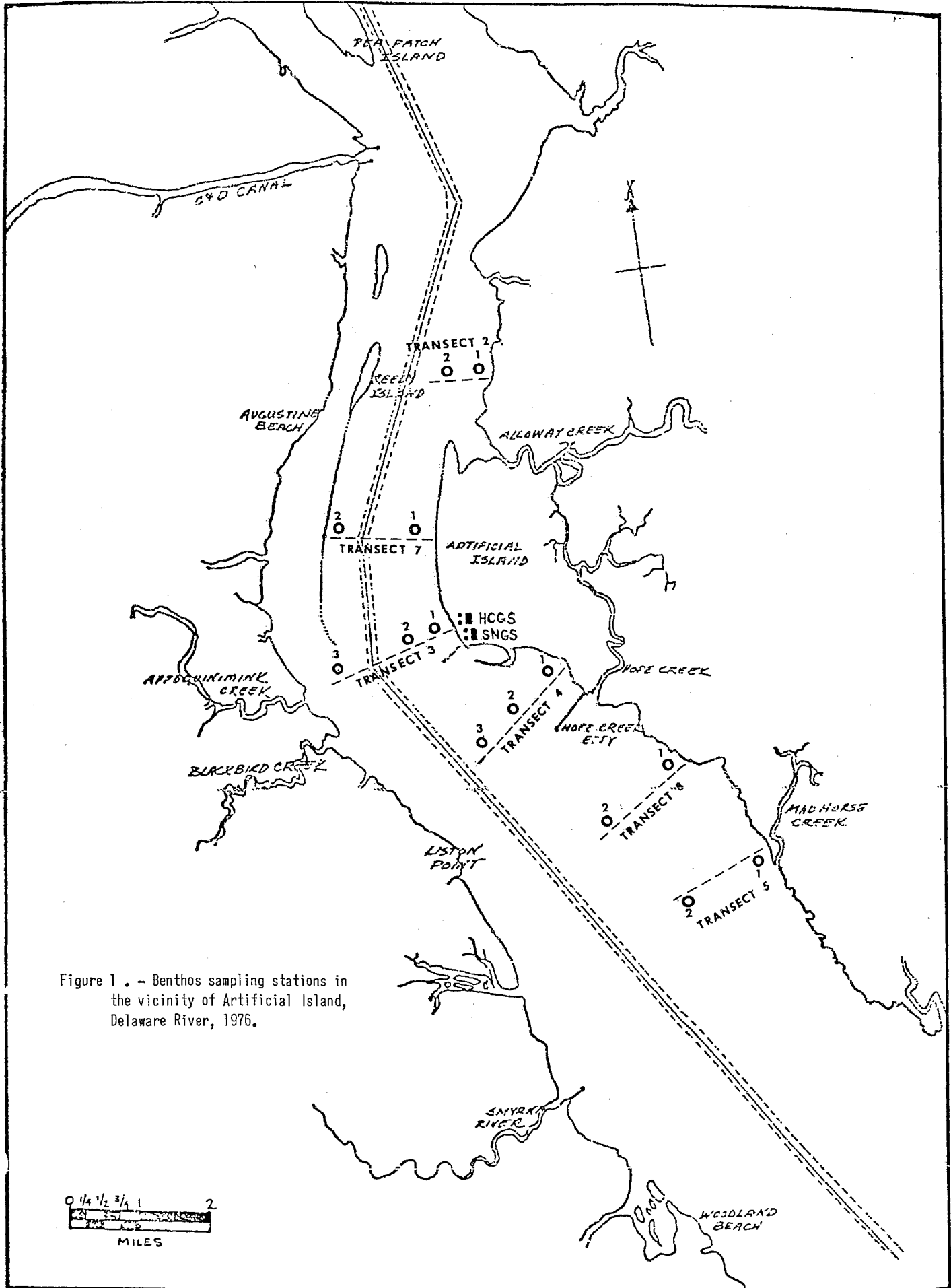


Figure 1. - Benthos sampling stations in the vicinity of Artificial Island, Delaware River, 1976.

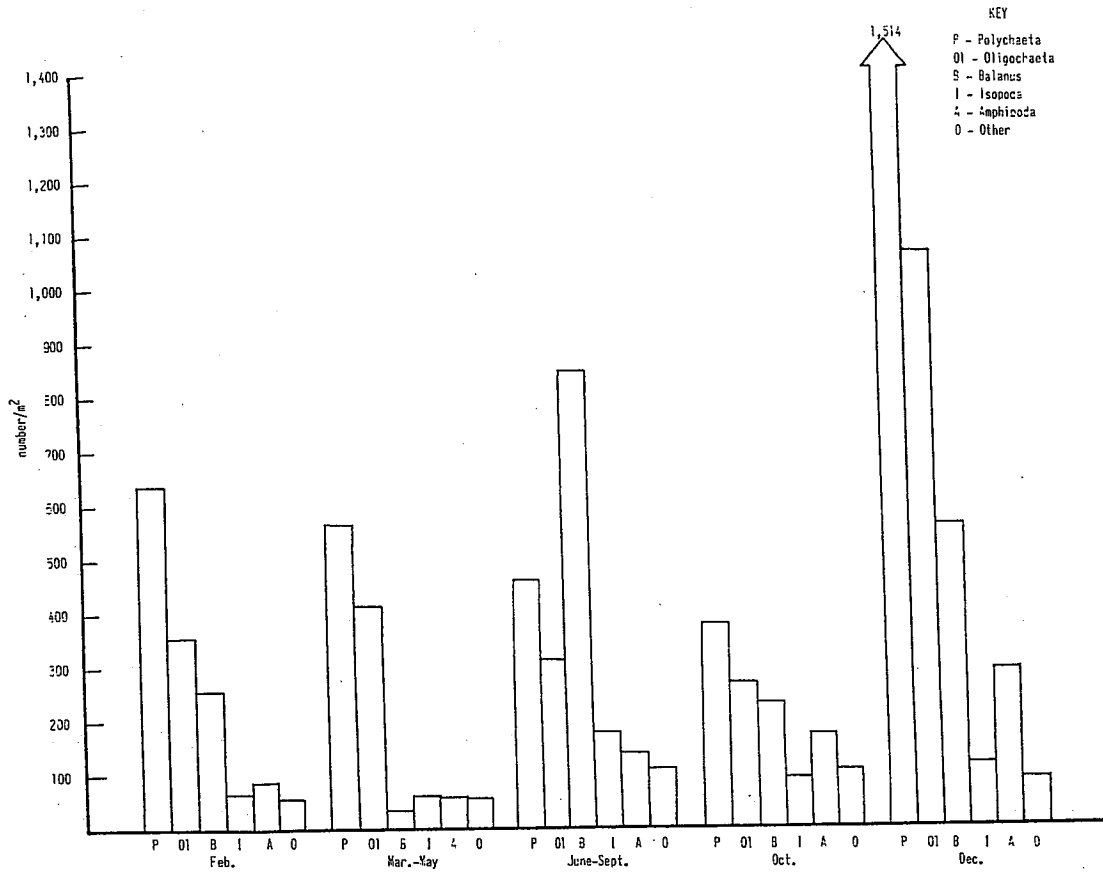


Figure 2. - Seasonal mean density of common benthic taxa in the vicinity of Artificial Island in the Delaware River in 1976.

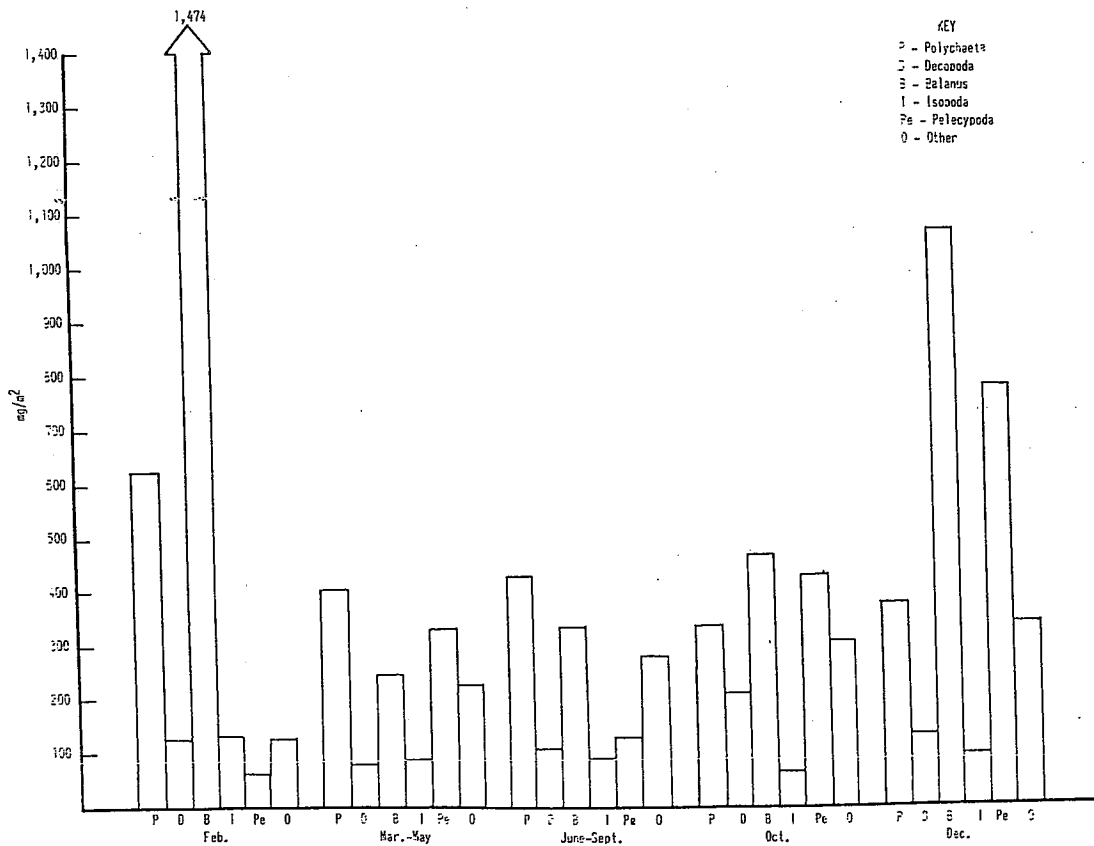


Figure 3. - Seasonal mean biomass of common benthic taxa in the vicinity of Artificial Island in the Delaware River in 1976.