OCLC # 39300 arg Viewing/an Arobived Copy Grom the New Jersey State Library

file - Fisheries

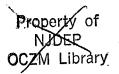
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF FISH, GAME AND SHELLFISH NACOTE CREEK RESEARCH STATION

DELINEATION OF FOOD WEB RELATIONSHIPS OF RESIDENT AND MIGRATORY FINFISH SPECIES IN LITTLE EGG HARBOR, NEW JERSEY

- INTERIM REPORT, COVERING THE PERIOD FROM JULY 1973 - JUNE 1975

This study, conducted under Project F-15-R, is supported in part by Dingell-Johnson Federal-Aid-to-Fisheries funds administered by the U.S. Fish and Wildlife Service

> Property of NJDEP Information Resource Center





Property of MJDEP OCZM Library

DEP QL 639.1 F47 1975

<u>Table o</u>	f Contents		Page
L	ist of Tabl	es	1
S	tudy Object	ives	3
M	iethods and	Procedures	4
D	ata Present	ation	6
D	efinitions		6
F	indings to	Date	7
		Fish	7
		Annelida	9
		Amphipoda	9
		Isopoda & Tanaidacea	11,
		Mollusca	11
		Decapoda	12
		Zooplankton	13
		Insecta	14
		Other Tidal Pool	14 15
D	iscussion		17
S	tudy Plans	for 1975-1976	17
S	tudy Partic	ipants	18
В	ibliography	,	19
F	igures and	Tables	20 - 65

LIST OF TABLES

- Table 1. List of common and scientific names of fishes used in this report (p. 20)
- Table 2. Occurrence of stomach content items by fish species: (p. 21) Category I: Fish (p. 21) Category II: Annelida (p. 23) Category III: An phipoda (p. 26) Category IV: Isopoda and Tanaidacea (p. 29) Category V: Mollusca (p. 30) Category VI: Decapoda (p. 31) Category VII: Zooplankton (p. 33) Category VIII:Insecta (p.36) Category IX: Other (p. 37) Table 3. Collection data by fish species for July 1973 through

June 1975 (p. 40)

Table 4. "Food" items by area (p. 43)

Fish (p. 43) Annelida (p. 44) Amphipoda (p. 45) Isopoda and Tanaidacea (p. 46) Mollusca (p. 47) Decapoda (p. 48) Zooplankton (p. 49) Insecta (p. 50) Other (p. 51)

- 2 -

LIST OF TABLES (CONT'D)

8220

Table 5:Collection data for tidal pool - Station S8 (p. 52)Table 6:Stomach content analyses by species for tidal pool (p.53)

- Summer '73 (p.53)
- Fall '73 (p.54)
- Winter '74 (p.55)
- Spring '74 (p.56)
- Table 7: Stomach content analyses for tide pool by species, 4 seasons combined (p.57)
- Table 8: Stomach content analyses for tide pool by seasonall species combined (p.58)
- Table 9: Rank in importance of food items in tidal pool (p.59)

Table 10: List of stations and index to figures 1 - 5 (p.60)

, with

- 3 -

Study Objectives

The long term objective of this study is to quantitatively map the trophic relationships existing between the various organisms inhabiting the Little Egg Harbor estuarine system. The present work is aimed at determining the roles and importance of estuarine organisms to finfish populations. Through examining the stomach contents of the various finfish species utilizing the system, the organisms important as fish food are being enumerated. Interactions between and within fish species regarding the utilization of available food sources are being examined. The delineation of finfish food chains will provide information necessary to evaluate the role of various estuarine habitats in the production and maintenance of fish populations.

> Property of NJDEP Information Resource Carlier

- 4 -

Procedures:

The diets of estuarine finfish are being determined through analysis of their stomach contents. Fish were collected at sampling stations selected for finfish distribution studies. Collection was accomplished by use of seines, otter trawl and gill nets. Fish captured at a given station were immediately placed in marked containers of 10% formalin. Upon return from the field, a subsample of fish collected at each station was removed for stomach analysis. Individual fish were weighed, and measured to the nearest centimeter. The stomachs of larger fish were removed and placed in vials of 10% buffered formalin. Small fish were preserved whole. Stomachs were removed in a variety of ways depending on the species concerned. Generally a cut was made ventrally from anus to gill isthmus with additional incisions dorsally so that the skin could be folded back to expose the digestive tract. Hemostats were placed on the esophagus and intestine proximal to the stomach and the tract severed distal of the hemostats allowing the stomach to be removed with a minimum loss of contents. In fish which lack a readily distinguishable stomach such as the tautog, the anterior portion of the tract was removed with care taken to include any bulging areas. Content analysis is accomplished as follows:

 The stomach is placed on a gridded plastic culture dish under low power of a lOX to 70X stereo dissecting scope.
 The stomach is opened by pinching the tissue to the plate with a scalpel.

3. Contents are removed with a probe and scalpel.

- 5 -

4. The contents are spread over a portion of the dish and items separated into different cells of the grid by species or type.
5. For identification, individual organisms are removed to a second plate to be keyed.

6. After all item types are identified as far as possible, the organisms are counted and what appears to be the smallest and largest individuals of each group measured to obtain a size range.

7. The volume of each item group is determined by displacement in distilled water in graduated cylinders to the nearest .05 ml. Excess water is removed from the organisms prior to displacement measurements by touching the animal or item with a piece of lens paper. Where content items are too small and too few to obtain a volume figure, a judgment is made by the observer as to the "most important" species or type group in the stomach contents. For the final report, volume estimates will be made for each content item on the basis of the average volumes found for items of similar species and size.

8. Data sheets record fish species, length (nearest cm), weight (nearest gm), station captured, time, date, tide, content item, number, volume and size range.

Water quality data gathered at time of collection is cataloged by the fish distribution study, project number 3-223R.

9. A type collection is being maintained of organisms identified in the stomach contents. Prior to preparation of the final report, this collection will be reassessed and rekeyed to insure proper enumeration of food organisms. Also, items presently identified to higher taxonomic categories will be - 6 -

further keyed to the species level where possible.

Data Presentation:

In the final report, findings will be presented by fish species and region within the study area. For each fish species, a table will be prepared listing the items occurring in the stomach contents and giving the size range of the item, the percent of the sample in which the item occurred (percent occurrence) and the percent of the total content volume made up by that item. When a sufficient sample size is available the content **items** will be subdivided by fish specimen size and or season of collection. In addition, an attempt will be made to examine variations in diet with region (via diversity indexes and item occurrence), and the allocation of food resources between species within sampling stations will be studied.

For the present report items are given by percent occurrence and percent importance over-all species within the various subdivisions of the sampling area (Table 4). The study area is divided into 5 regions or areas on the basis of physical similarities and salinity ranges (Table 10, Fig. 1-5). Food or Content items are divided into nine categories: Fish, Annelids, Molluscs, Isopods and Tanaids, Amphipods, Decapods, Zooplankton, Insecta and Other.

Definitions: (Table 4,5,6,7)

%0 = percent occurrence = the percent of the fish sampled in which at least one of the given content items occurred in the stomach.

- 7 -

Findings:

Table two lists the stomach content items by category found in each of the fish species examined. Table 4 gives occurrence of food items by area. It is important to note that items are listed to point of identification and a series such as Polychaete remains, <u>Nereis sp</u>.and <u>Nereis succines</u> may represent many different species or a single species in various states of recognition.

<u>Category I - Fish</u>

Fifteen fish species were collected from stomachs of the specimens examined to date. Fish, including fish eggs, appeared as food items for 28 species. Needlefish, bluefish, northern sennet, silver perch, striped bass, summer flounder and weakfish depended heavily on fish as food. Of fish identified in the stomach contents, bay anchovy and silversides appeared most frequently. There appears to be a significant trend for cannibalism among needlefish. A limited sample of striped bass was found to be utilizing American sandlance as a major food source. Fish eggs comprised a significant portion of the bay anchovy and spot diets. Infortunately, fish deteriorate very rapidly after consumption and thus a majority of fish remains recovered from the stomachs could not be identified to the species level.

- 3

The sample did not include a large number of adult fish. Much of the study area is utilized primarily as a nursery ground by those marine species such as weakfish and bluefish which are known to rely heavily on a fish diet. A larger sample of adults has been collected from the inlet area over the past segment and analysis of these stomachs should provide additional data on the importance of various forage species in the area. Of interest was the finding of a young searobin in a summer flounder stomach and the occurrence of naked gobies in the winter flounder diet. Young bluefish appear to be the major fish eaters in the system.

Fish were found to be the most important food category, volumetrically, in 28.6 % of the sample taken from inlet stations. This value dropped to 7.6% and 7.1% in Creek and Mill Creek stations, 4.9% in the Bay proper and zero in the Lagoon stations. These values reflect, primarily, the proportion of larger fish in the various sample areas rather than an absence of forage species. Sandlance, fish remains, bay anchovy and hake comprised the species occurring at least once as the most important item in the inlet specimens examined. In bay areas, four spine stickleback, bay anchovy, silver perch, naked goby, silversides, spot, and needlefish ^{fn} appeared as forage species. In creek station samples, bay anchovy, killifish, and spot were items of importance while stickleback, killifish and pipefish appeared in Mill Creek stations.

fn: occurred only in the stomachs of other needlefish.

- 9 -

<u>Category II Annelida</u>

Unidentified oligocheates occurred in the stomach contents of sticklebacks and spot. A minimum of sixteen polychaete species were found in the stomach contents of 19 fish species. Winter flounder relied heavily on polychaetes as a food source. Stickleback and spot also consumed significant numbers of polychaete worms. Among those species utilized by winter flounder, <u>Pista palmata</u>, capitellids, <u>Neréis sp.</u>, <u>Polydora sp</u>. and <u>Maldanopsis elongata</u> appeared most often in the flounder diet. Clam worms, <u>Nereis spp</u>., occurred in 6 species. As with the fish items, polychaetes deteriorate repidly in the stomachs and unidentified polychaete remains form a major component of the annelid category in Table Z.

Annelids comprised the most important items in 16.1% of the inlet sample, 13.4 % of the bay sample, 12% of the mill creek sample and 4.3 % of the other tidal creek samples. They did not appear as items of importance in fish collected from the lagoon stations. In the inlets, <u>Glycera americana</u>, capitellids and <u>Nereis sp</u>. were of importance, while <u>Pista palmata</u>, capitellids and <u>Nereis sp</u>. dominated most frequently in bay samples. Oligochaetes, <u>Nerèis sp</u>. and <u>S. viridis</u> appeared as items of importance in the Mill Creek sample. In the creek stations, <u>Nereis sp</u>., <u>Maldanopsis elongata</u>, <u>Polydora sp</u>., and <u>P. palmata</u> dominated the stomach contents of some specimens. Category III - Amphipoda

Amphipods form a major fish food resource in Little Egg Harbor. At least 33 species occurred in the stomach contents of 28 fish species. Of these, 19 were identified to the species level with an additional 6 to genus and 4 to family. <u>Ampelisca spp</u>. and <u>Cymadusa compta</u> dominated the category..

- 10 -

Gammarus spp. occurred in eight species and was a major item in lower salinity areas. Three species of Ampelisca; <u>A. abdita</u>, <u>A. vadorum</u>, and A. verilli were identified, <u>A. abdita</u>, the smallest of the three in size dominated the genus in numbers. Black seabass, mummichog, sticklebacks, pipefish, spot, tautog, weakfish, white perch and again winter flounder utilized amphipods heavily. Caprellids occurred in 3 fish species, most frequently in the diet of pipefish.

Amphipods were most important in the creek stations where they comprised the major food item in 18.0% of the fish examined. Ampelisca spp., predominantly A. abdita, accounted for 67.7% of the total importance for this category in the creeks. Other frequently occurring items were Cymadusa compta and Gammarus sp., Amphipods were the dominant items in 12.9% of the bay samples again with Ampelisca spp. predominating although A. vadorum was most frequently encountered at this area. In Mill Creek, Leptocheirus plumulosus, Corophium sp. and Cymadusa compta were important food items. While amphipods appeared as the dominant item in 11.9% of the samples from lagoon stations, most of the recovered organisms were digested to a point beyond species identification. Two individuals of the genus Erichthonius were recognized. Twelve species were present in the Inlet station samples. Amphipods, however, dominated in only 1.8% of this group on a volumetric basis. Eleven Caprellids were taken from inlet, bay and mill creek specimens.

- 1% -

Category IV - Isopoda and Tanaidacea

Nine species (plus one tentative identification) of isopods and tanaids were recovered from the stomachs of 16 fish species. The genus Idotea (tentatively 3 species) occurred most frequently with <u>I. balthica</u> dominating.

Eels, black seabass, pipefish, toadfish and tautog preyed most frequently on Idotea. Cyathura polita occurred in six species with banded killifish, spot and winter flounder the major consumers. <u>Edotea triloba</u> and <u>Erichsonella spp</u>. occurred in the diets of 4 and 5 species respectively.

In general, this category does not appear to represent a major fish food resource in the system. In creek stations, isopods were the most important items in 1.4% of the sample with <u>C. polita</u>. <u>E. filiformis</u> and <u>I. balthica</u> represented. No isopods or tanaids were collected from lagoon specimens and only <u>I. balthica</u> from inlet stations. The exception is possibly Mill Creek where <u>C. polita</u> was the dominant item in 4.4% of the fish sample and <u>I. balthica</u> in 1.6%.

Category V - Mollusca

Six gastropods and ten bivalve species were recovered from the stomachs of 12 fish species. With the exception of Mya arenaria in the American eel and bivalve siphons in winter flounder,

- 12 -

adult molluscs do not appear to be important as a direct source of fish food. A majority of the siphons recovered from winter flounder have been identified as <u>Mercenaria mercenaria</u> through comparison with the siphons of the bivalves found in the study area. These siphon tips occurred in 34.1 % of the flounder sample and comprised 12.64% of the total diet volume for this species. A supplementary report on these findings is being prepared.

The flounder - mercenaria relationship is largely responsible for the category values of table 4 inwwhich molluscs represent the major diet item in 2.7% of the bay sample, 2.8% of the creek sample and 1.8% of the inlet sample. Again, molluscs were not recovered from specimens taken at lagoon stations. Category VI - Decapoda

Decapods formed a major food source for finfish utilizing the Little Egg Harbor study area. A minimum of eight species were found in the stomachs of 25 fish species. Caridean shrimp were of special importance. <u>Crangon septemspinosa</u> formed a significant portion of the diets of alewife, black sea bass, bluefish, spotted hake, striped bass, summer flounder, tautog, weakfish, and white perch.<u>Palaemenetes spp</u>. occurred frequently in the stomach contents of the alewife, black seabass, bluefish, spotted hake and winter flounder. <u>P. vulgaris</u> appears to be the dominant grass shrimp species in the area. Shrimp are a major staple of the recreationally and commercially important finfish species utilizive Little Egg Harbor.

Brachyuran crabs formed a substantial part of the eel, black seabass, oyster toadfish, summer flounder and tautog diets. The blueclaw crab, <u>Callinectes sapidus</u>, occurring in 33.3% of the eel stomachs, 13.3% of the tautog and 12.5% of the seabass and summer flounder stomachs. Xanthids dominated by <u>Neopanope</u> <u>texanna</u> occurred in eels, seabass, toadfish, hake, summer - 13 -

flounder, tautog, weakfish, white perch and winter flounder diets. This group was often of considerable importance in individual stomachs.

Decapods dominated the stomach contents of 23.3% of the inlet sample, 13.8% of the creek sample, 6.7% of the bay sample, 3.2% of the mill creek sample and 2.4% of the lagoon samples. Crangon septemspinosa was the dominant organism in each case. No crabs appeared in the lagoon specimens.

Category VII - Zooplankton

As expected zooplanktors formed a major food source for young and small fish utilizing the study area. Mysid shrimp were included in this category. Calanoid copepods dominated the diets of American sandlance, bay anchovy, blueback herring, fourspine stickleback and three spine stickleback. They occurred in 33.3% of the alewife, 20% of the Atlantic menhaden, 43.3% of the Atlantic silversides, 25.0% of northern pipefish, 21.0% of the spot. 25.0% of the spotted hake and 47.4% of the tidewater silversides examined. Harpacticoid copepods were important in bay anchovy, blueback herring, stickleback and spot diets. Neomysis americana, represents a major food item in the Little Egg Harbor area. This organism occurred in 21 species of fish. It represented a significant if not dominant item in the diets of the alewife, northern pipefish, young summer flounder, threespine stickleback, young weakfish and young white perch. In addition it was found in 40% or more of the blueback herring and silver perch samples, and 20% of the silversides, anchovy, and spotted hake. Gastropod, crab, and/or shrimp larvae were

- 14 -

seasonally important in the diets of Atlantic needlefish, anchovy, blueback herring and pipefish. Turbellarians occurred somewhat unexpectedly in six fish species; being found in 24.2% of the bay anchovys, and 18.8% of the pipefish. The percent importance values for this category in table 4 are largely a function of the proportion of forage and young fish in the area samples. In the inlet, mill creek and lagoon samples, Calanoid copepods were of major importance while N. americana dominated in the creek specimens. These items were of about equal importance in the bay samples.

Category VIII - Insecta

Adult, winged insects were important in the diet of Atlantic needlefish. Chironimidae larvae appear to from a significant portion of the white perch diet. Water mites (Order Acari), and insects of the orders Coleoptera, Plecoptera and Family Cicadellidae as well as Dipterans and ants appear to form minor constituents of the diets of at least nine fish species.

Category IX - Other

A variety of organisms and materials which do not fit in the previous categories are listed under this grouping in tables 2 and 4. Various algae appeared in recognizable amounts in fifteen species of fish. Diatoms and other algae formed a dominant item in the menhaden and sheepshead minnow diet and were important in the banded killifish specimens examined. Plant detritus, listed as fibrous plant remains, occurred in 21 species. This material appears to form a major food source or food carrier for white mullet. It did not occur in volumes significant enough to indicate that it was being purposely or

- 15 -

actively consumed by other species. Its ingestion appears to be incidental to the capture of other prey. The nutritional value of this material or the bacteria associated with it may, however, complement the diets of a number of fish species. Hydroid stolons and polyps occurred frequently in low volumes in the stomachs of silversides, spot, tautog and winter flounder.

There was a high occurrence of nematodes in the stomach contents of spot and oyster toadfish. The vast majority of nematodes recovered from the stomachs appeared to be in good condition and apparently were not being digested by the fish. Thus it is believed that these are functioning as parasitic or commonsal organisms rather than a food source.

The items listed in this category formed a significant portion of the diets of the fish collected at lagoon stations. Algae was found to be the most important content item in 21.4% of the fish examined from this area to date.

Tidal Pool

and a state of the state of the

The stomach contents of 118 fish collected from a tidal pool on the Diner Pt. Creek marsh were analyzed. The tidal pool, measuring approximately 25 x 50 feet, was sampled seasonally with the results given in table 5. The pool had a soft mud bottom and was probably flooded by every higher than mean high tide.

Table 6 gives results of the stomach analyses for each season sample on a per species basis. In the summer sample, dinoflagelates dominated the stomach contents of mummichogs and sheepshead minnows while rainwater killifish preyed mainly on Chironimidae larva. Cladocerans dominated the contents of two - 16 -

silverside specimens.

In the fall sample, mummichog and sheepshead diets turned to other algaes possibly due to a scarcity of dinoflagelates in the pool during this time. The mummichogs also devoured chironimidae larva and copepods while sheepshead remained almost totally herbivorous. In the winter the mummichogs maintained a diverse diet relying somewhat more on animal foods than algae. Harpacticoid copepods formed the main course for silversides while sheepshead continued feeding on algae. Only one mummichog specimen was obtained in the spring sample. This fish contained a variety of plant and animal items with Gammarus mucronatus the dominant item volumetrically. The sheepshead diet was most diverse during this season. Although algae remained the predominant content item, chironimidae larva and calanoid and harpacticoid copepods were also consumed. Two rainwater killifish contained various algaes, chironimidae larva and G. mucronatus.

Table 7 totals the tidal pool results over the four samples by species and table 8 gives results over species by season. Totals are heavily influenced by the dominance of dinoflagelates in the summer sample. Table nine ranks the content items by % importance in the total sample. Plant matter apparently plays a more important role in the **trophic structure** of the tide pool than it does in open water. This situation is also suggested in the case of the lagoon systems in the study area.

- 17 -

Discussion

The stomach analysis work to date has demonstrated the extreme complexity of the trophic structure in the Little Egg Harbor study area. Although certain species, including Crangon septemspinosa, Neomysis americana, and Ampelisca spp., apparently dominate finfish diets, other organisms are important foods for given fish species or fish sizes at certain seasons and in certain areas of the system. The importance of various organisms is a function of the size and nature of fish populations utilizing the various sampling stations in inlet, bay and creek Such utilization will be clarified with completion areas. of the fish distribution studies (report scheduled for September 1975). The lagoon system appears to be atypical in comparison with the other areas studied. There was a noticeable absence of bottom associated food items in the stomach contents of fish collected from this area. The consumer levels in the trophic structure of the lagoon system appear markedly less complex than found in the other study areas.

Plans for the 1975-1976 Study Segment

Hopefully time will be sufficient to complete stomach analysis work on the remaining fish sample. Efforts will be made to obtain volume estimates, on the basis of sample averages, for individuals of all species and content items for which such estimates are not presently available.

- 18 -

Study Participants

Fish Collection:Barry PreimFerdinand MetzgerFish Processing:Barry PreimFerdinand MetzgerStomach Content Analysis:Patrick Festa

Report by:

Patrick J. Festa Project Leader - 19 -

Bibliography of References Used in the Identification of Stomach Content Items

Abbott, Tucker R. 1968; <u>A Guide to Field Identification-</u> <u>Seashells of North America</u>, Golden Press, New York

Bousfield, E.L. 1973, Shallow-water Gammaridean Amphipoda

of New England, Comstock, Cornell Univ. Press, Ithaca

- Day, John H. 1973: "New Polychaeta from Beaufort with a Key to all Species Recorded from North Carolina". NOAA Technical Report NMFS CIRC-375
- Edmondson, W.T. 1959: <u>Freshwater Biology 2nd Edition</u> John Wiley & Sons Inc., New York

Gosner, Kenneth L. 1971: <u>Guide to Identification of</u> <u>Marine and Estuarine Invertebrates</u>, John Wiley & Sons Inc., New York

Little, V.A. 1963: General and Applied Entomology

2nd Edition, Harper & Row, New York

- Pettibone, Marian H. 1963: "Marine Polychaete Worms of the New England Region", Bulletin 227, Smithsonian Inst., Washington, D.C.
- Smith, Ralph I. 1964: "Keys to Marine Invertebrates of the Woods Hole Region", Contrib. No. 11, Marine Biological Lab., Woods Hole, Mass.

TABLE 1

List of common and scientific names of fishes used in this report. (Am. Fisheries Soc. SP. Pub. No. 6, 1970)

Common

Alewife American eel Atlantic menhaden Atlantic needlefish Atlantic silversides Banded killifish Bay anchovy Black sea bass Blueback herring Bluefish Brown bullhead Crevalle jack Cunner Four spined stickleback Golden shiner Hogchoker Lizzard fish Mummichog Naked goby Northern pipefish Northern puffer Northern sennet Oyster toadfish Pinfish Planehead filefish Rainwater killifish Redfin pickerel Red hake Scup Sheepshead minnow Silver perch Snapper Spot Spotted hake Spotted seahorse Striped bass Striped killifish Striped mullet Summer flounder Tautog Tidewater silversides Weakfish White mullet Windowpane flounder Winter flounder White perch

<u>Scientific</u>

Alosa pseudoharrengus Anquilla rostrate Brevoortia tyrannus Strongylura marina Menidia menidia Fundulus diaphanus Anchoa mitchilli Centropristes striatus Alosa aestivalis Pomotomus saltatrix Ictalurus nebulosus Caranx hippos Tautogolabrus adspersus Apeltes quadracus Notemigonus crysoleucas Trinectes maculatus Synodus foetens Fundulus heteroclitus Gobiosoma bosci Syngnathus fuscus Sphaeroides maculatus Sphyraena borealis Opsanus tau Lagodon rhomboides Monacanthus hispidus Lucania parva Esox americanus Urophycis chuss Stentomus chrysops Cyprinodon variegatus Bairdiella chrysura Lutjanus sp. Leiostomus xanthurus U.rophycis regius Hippocampus erectus Morone saxatilis Fundulus majalis Mugil cephalus Paralichthys dentatus Tautoga onitis Menidia beryllina Cynoscion regalis Mugil curema Scophthalmus aquosus Pseudopleuronectes americanus Morone americanus

CCCURRENCE	OF SI	OMACH	TABI I CONT	דאיםי ד	ITEMS	B	Y F	<u>VISH</u>	SPECI	ES		
% occurrence in X= Presence in a I Category: Fish	stoma	chs c	ontai live d	ning pr mo	food re		ive M	en fo	r sam	ple s	ize	
X= Presence in a	malle	r san	nple			ē Ho	e so	р 0 0	p.r.g		it B	οvy
X= Presence in a I Category: Fish		tla leec ish	000 000 000 000	lus Ish	row ULL Sed	rev	6. Bi	う へ・ う すし	N 5 N 0 H -	ភ្នំ ភ្នំពេល	Northem senget	3a y Inc ¹
<u>I Category: Fish</u>	AO E			{		<u></u>	<u>⇒ io</u>	<u>് 0</u> 0		温い	N N	energianista Hardi yardi
<u>Apeltes quadracus</u>		7.1		-2442.18791-1782.87	rayadilari Mirilar Marten Willia			1944 - 1984 - 1984 - 1. Jacob	1.2.40 Abor 1 1.000 Abor 1.000	an sin s di sina sa ang		
Ammoydtes american- us												
<u>Anchoa mitchilli</u>				18.2	**************************************				nak yiku milan ni ang palan si	la da fer analysis a single and a same		liter and a second s
Brevoortia		-										
<u>tyrannus</u> Bairdiella				9.1	- Anno a da anno anno anno anno anno a							Cécla de répélors y des rais
<u>Gobiosoma bosci</u>	*****	niz "er Alabie az rynyf wales " y			197 BAR 2010 - 2010 - 2017 BAR					and an all the second secon		
Fundulus sp.		an a			anang dan sana dara sa					10.0		
(Etropus												
microstomus)	- MELTINGT, TOMA IS DESCRIPTION		erna (1 admite) - ya yaya dir 2 Adrife	10000000000000000000000000000000000000			ne britangen	an a		ngalite - oggaaleer alethou		
<u>Menidia menidia</u> Menidia sp.		1913 7 86.788 81 76 71.6 88	dali Vrije a 1. je se majar por tana	9.1					T and settler and have specific		16.7	wayteen traditors
Prionotus sp		iter to gis the spinger gives a stateme	41.71.510001369817374937-3 449449			10 /10 ⁻ 00		1923 Miles of Supplying 1	eno ang ng din din di si ng sa		<u>+0.</u> 7	akrofiyyyyydda (m. yw.)
Leiostomus	and a set of the set of	anna tha an	an inter and a spin statement	and the Captor of States		- N () (M 1713	4) 47 L (10 7)	*****	1944 - Ernelli, C Marie - Bird, 1	and decision of the gas barrado		CONTRACT OF STREET
xanthurua		10.00 Table 1 - Anno 100 March - Miran	8-2-20 8 10 10 10 10 10 10 10 10 10 10 10 10 10	9.1			18-18-1 1940-Cap	Na alina with second	-	a data yanga basay yang a sakara sakara sakara		
Strongylura		- 1 F										
<u>marina</u> Syngnathus	****	14.3				1.715 / 10.6 17 No						
fusus	11.1											
Urophycis sp.	and the second se	na ye yingin yana ya ku			a Manada an an an an an		Q MO (2007) 10		an ann an tao ann an tao an	ar an		
Fish remains		21.4	12.5	54.5	X	X		an a substitution of the state of the second states	Х		50.0	
Fish eggs	<u>11.1</u>	0712,000					14	9.0	ar a fann y shager yn de militer y se	waterial and a features		12.9
-												
.t.												
						ŀ						
			r I				1					
							[
×							l					
	. '											
			-0									
			-~	<u>⊢</u> –								
	ļ											
and the second					•	•	I .			• •	•	

	TA	BLE 2	(CONT!	D)					
				1		•			
I Fish	Oyster Toad Fish	Pick-			Snap-			Spotted	Str iped
(Cont'd.)	Fish	ere1"	Scup	perch	per	Sp	ot	Hake	Bass
Apeltes quadracus			Chapter and Chapter and Chapter and	· Constant and Constant a line	a substant agé and thay want to a diversities.		وليطاق ليناطله بهي هو عدا هي		
	5.9						····	12.5	
Ammodytes american-	-							· · · ·	
นร									50.0
Anchoa mițchilli									
· · · · · · · · · · · · · · · · · · ·			•						•
Breevoortia									
tyrannus									
Bairdiella					a na ana ana ana ana ana ana ana ana an		4. 179 Wester Gardenie Grau		-12 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -
chrysura									
<u>Gobiosoma bosci</u>								and the second	
Fundulus sp.					a a daya nghal na siya na mangangan dina	an a	1.2	and the second	an ar a sha an
(Etropus							ويتوجونها والمرادين ومرادين ومراد		
<u>microstomus</u>)]								10.0
Menidia menidia			ray nın takırtı opu uzylaşı				2 - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1		10.0
Menidia sp.					ana da ana da da ada dik tanya a Apira, 2000	· · · · · · · · · · · · · · · · · · ·			and the second
Prionotus sp.		· ·	**************************************			·····	ب هشور بور		
Leiostomus									and the state of the
xanthurus	11.8								
Strongylura							- 		
marina									
Syngnathus fusus								·····	
Urophycis sp.									10.0
Fish_remains	5.9	X	X	20.0	x	7	.6	12.5	40.0
Fish eggs	11.8	î		2010			.2		
						and the second se	• ~		Trifford
	Striped killi- fish	Summer		3 spine stickle	vater silver sides	44	Ĵ	Wind our	winter flour
Fish (Cont'd).	Ŷish'	Flounder	Tautog	back	silver	2	11	Window- pane	der
				Dach	STUES	<u> </u>	1.8	pane	the state of the s
<u>Apeltes quadracus</u>							<u>+ 0</u>	57	
Ammodytes americanus		000	-					<u> X </u>	
<u>Anchoa mitchilli</u>		25.0				5.			
Brevoortia									
tyrannus									
Bairdiella		30 4							
chrysura		12.5							<u> </u>
<u>Gobiosoma bosci</u>							1.8		2.4
Funday] and an							2 5		
Fundulus sp.							3.5		
(E _t ropus									
<u>microstomus</u>)		****							
<u>Menidia menidia</u>									
<u>Menidia sp.</u>	- 								
Prionotus sp.	allaharimala alkangkapanggapan (a agam	12.5		ang dan kalangang persebut ang dari pe					
Leiostomus									
xanthurus	a han bahar a sa fara a sa mana an an da an ang Panta	1.0.000 stars and the star of the star		a and a substant of the state o					
<u>Strongylura</u> marina									
Sygnathus fusus									en soud-ma alle de la constante de la const
<u>Urophcis sp.</u>		-							
Fish remains		25.0	6.7	16.7	5.3	50	5.3	Х	artentique, participation and de cha
Fish eggs	X						14.0	· · · · · · · · · · · · · · · · · · ·	
	ŕ								
					1				
		•	-22-						
					1				
				F			· 1		

TABLE 2 (CONTID)

You are Viewing an Archived Copy from the New Jersey State Library <u>TABLE 2 (Contidr</u>)

 \bigcirc

		Atlantic silver-	Banded killi-	Bay		Brown bull-	Cun-
II Category:Annelida		sides	fish	anchovy	Bluefish		
Class Oligochaeta						<u></u>	
Fam. Aphroditidae			in air ann an Ionna ann an Ann an Ann				
<u>Clymenella torquata</u>	والمسترك فتتحد والمتعار بالمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمر		ar ya ngi ku sa ngan kalin (ka di karangan sa di karang				
<u>Glycera americana</u>							
<u>Glycera</u> sp.							
Lumbrineris sp.	ومراجع المراجع المراجع والمراجع والمراجع						
Fam. Lumbrinereidae							
Fam. Capitellidae Fam. Terebellidae							
Terebellides sp.							
Pista palmata							
Fam. Folyneidae							
Fam. Phyllodocidae							
Phyllocdoce sp.		·····				*******	
Phyllodoce maculata		<u> </u>		+			
Fam. Syllidae			+		+	**************************************	
Sabella microphth- alma							
Nephthys sp.	+		1		+		J.
Nereis sp.	7.1	+		3.2	9.1	X	
Nereis succinea							
Fam. Spoinidae							
Polydora sp.				14.5.			
Scolecolepides						v	
viridis	+	<u> </u>				<u> X </u>	
Maldanopsis							
elongata		+	-				
Polychaete							
remains	14.3	1.5	22.2			•	X
							1
						ł	ľ
			I				
			ł				
		-23]	
		-23		4			
						<u> </u>	1
	1 	• •	•		1	1	1

TABLE 2 (Cont'd) II CATEGORY: ANNELIDA

	4-spined stickle-	Golden			Planehead
. Category:	back	shiner	Hogchoker	toadfish	filefish
Annelida					
Class Oligochaeta	2.9				
Fam. Aphroditidae	<u> </u>				
Clymenella torquata					
<u>Glycera americana</u>					
Glycera sp.					and a second state of the
Lumbrineris sp.					
Fam. Lumbrinereidae		**************************************			
Fam. Capitellidae			Х		
Fam. Terebellidae		يكار المراجع ا		ar fraggyfrydd ar Allaf Sfart yfar gyfar yfar yfar yfar yfar yfar yfar yfar	
Terebellides sp.		والمراجع وا			
Pista palmata					
Fam. Polyneidae					
Fam. Phyllodocidae					
Phyllodoce sp.			X	an a	
Phyllodoce maculata	1.4			and the second secon	
Fam. Syllidae	$\frac{1.4}{1.4}$				
Sabella microph-					
thalma				an a	
Nephthys sp.					
Nereis sp.					·····
Nereis succinea	-				· · · · · · · · · · · · · · · · · · ·
Fam. Spionidae	1.4				
Polydora sp.				ange dar se an amb for the graph is a state of the second system.	
Polydora ligni	2.9				
Scolecolepides					
<u>viridis</u>					
Maldanopsis					
<u>elongata</u>			**************************************		
Polychaete	5.8	Х	x	5.9	X
remains	5.0	л	A	5.7	-
		I.			
	,				
			1		
		-24-			
			1		

TABLE 2 (Cont'd.) - II Category: Annelida

							Winter flounder
							ਮੁੱਧੂ
				ĺ		White Perch	с С С С
				Striped		ni Pr	L O
II Category-Annelida	Scup	Snapper	Spot	bass	Tautog	МЧ	,≊ (⊷1
	100010		NP U U		100000		
<u>Class Oligochaeta</u>			3.2				
Fam. Aphroditidae			<u></u>				1.2
Clymenella torquata	X					2.4	
Glycera americana						~ • •	4.7
Glycera sp.						1.8	4.7 1.2
Lumbrineris sp.					6.7	Γ	
Fam. Lumbrinereidae						†	12
Fam. Capitellidae							100
			والبري بالمركب والمراجع والمرجع والمرجع والمراجع			+	1 2
Fam. Terebellidae	an a					+	2 1
Terebellides sp.	57		·····		······································	+	$ \begin{array}{c} 1.2 \\ 19.0 \\ 1.2 \\ 2.4 \\ 23.5 \\ 2.4 \\ 2.4 \\ \end{array} $
<u>Pista palmata</u>	X						
Fam. Polyneidae						+	1.2
Fam. Phyllodocidae	a a contrata da contrata de contrata d						1.2
Phyllodoce sp.						+	3 7
Phyllodoce maculata							3.5
Fam. Syllidae							
Sabella				1		1	
<u>microphthalma</u>							2.4
Nephthys sp.			3.2			+	2.4 1.2 8.2 1.2
Nereis sp.	*****	Charles and a state of the second s				5. 3	8.2
<u>Nereis succinea</u>							1.2
Fam. Spionidae						4	
Polydora sp.						4	4.7
<u>Polydora ligni</u>				-			8.2
Scolecolepides							
viridis							
Maldanopsis						1	
elongata		X					7.2
							1
Polychaete			ł				1.
remains			21.0	10.0	13.3	28.1	24.7
					1		
					l .		
					1		1
			ŀ				
					1		1
		1					
•							
			1		1		
				1		ł	
]	1			
				ł		1	
				-		I	1
		1			1	I	
					1	1	
		-25	7				1

You are View	-					-	-			
TABLE 2	(Cor	t'd.)	: III		gory:	Amph	<u>i poda</u>			
	l O O	r ti	р I	y y	м		Ч	per l	54	1
TTT Cotocont	L OL	L SC L SC	sh1 L1	а СЧС	ດ ເວີຍ ເຊິ່ງ	G D D D D	1 LE	c k c k	Hog-	in o
III Category: Amphipoda	a a n e a n	Atlentic silver- sides	Banded killi- fish	5 7 8 7 7 8	31 ack sea bass	bu. bu.	rennuc	4 spined stickle- back	E CHO	Mummi- c hog
	ante alcarita des citendarios di inglicita dalla di		******	*****						
<u>Ampelisca sp.</u>	<u>11.1</u>	1.5		4.8			a, dir Johnson symptotica			
Ampelisca abdita		4.5		1.6						
Ampelisca vaderum		1.5						1.4	*****	
Ampelisca verilli										
(Batea catharinen-										
<u>sis)</u> Casco bigelowi										
Cerapus tubularis										
Corophium sp.				1.6						
Corophium (Tuberculatum)				1.6						
Corophium				1.0						
<u>(lucustre</u>										
<u>Cymadusa compta</u>					12.5			4.3		20.0
Erichthonius brasiliensis				1.6				1.4		
				1.0						
Erichthonius rubricornis								1.4		
<u>Erichthonius sp.</u> <u>Gammarus faciatus</u>						·				
Gammarus mucronatus	11.1									
<u>Gammarus diaberi</u>							a - Adaptation on Sec ard			
<u>Gammarus</u> sp.		1.5			12.5			5.8	· · · · · · · · · · · · · · · · · · ·	10.0
Lembos sp.									Tr	
Leptocheirus pinguis									X	
Leptocheirus plumulosus						X		1.4		
<u>Leptocheirus sp.</u> Fam. Lysianassidae					25.0					
Elasmopus laevis			C		25.0		Х	1.4		
Fam. Hyalidae										
<u>Marinogammarus sp.</u> Microdeutopus sp.						X	. 			•
Microdeutopus (gryllotalpa								1.4		
Microprotopus ranei										
Orchestia platensis										
<u>Monoculodes sp.</u> Melita sp.										and the second
Maera danae										<u> </u>
Fam. Photidae		1.5								
Fam. Stenothoidae Parametopella cyris						·····				
Stenothoe minuta									·	
Fam. Talitridae Unciola sp.								1.4		and the second design of the local data is the second design of the local data is the second design of the local data is the second data is the se
S.O. Gammaridea										
remains	11.1	4.5	44.4	1.6	25.0	X	X	13.0	L	20.0
Order Caprellidea								2.9		
								ŀ		
									l	
			-	26-				1		
								ļ		
				1				•	ļ	
									·	

You see Viewing an Archived Copy from the New Jessey State Libbs' TABLE 2 (CONY 1) III Category: Amphipoda Amphipoda Amphipoda Ampelisca and ta Ampelisca and ta Ampelis														
III Category: Fig. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	You are Viewir TABLE 2	ig an / (CON	Archive) :	III	n <mark>the I</mark> Cate	New Jogory	ersey S V: Ar	Statel nphi	Library poda				
Ainpelison sp 20 21 X 355 X Ampelison vaciorum 6.3 X 10001 factorum 6.3 Ampelison vaciorum 6.3 10001 factorum 10001 factorum Ampelison vaciorum 6.3 12.5 Carapus tubularis X 12.5 Corophium sp 6.3 12.5 Corophium sp 6.7 13.3 Cammarus faciatus 6.7 16.7 Cammarus faciatus 6.7 16.7 Cammarus faciatus 16.7					ish	ri Li	i s l				(D)	- A1	ಟ	kl e-
Anneelisca sp 5.3 X 3222 Anneelisca vadorum 5.3 X Anneelisca varialis 5.3 Casco Disclowi 1 Casco Disclowi 1 Casco Disclowi 1 Coronnium SD. 1.6 Coronnium SD. <td< td=""><td>III Category: Amphipoda</td><td><u>Naked</u> Roby</td><td>Narth Pipef</td><td>Nort Puff</td><td>Oyste toedf</td><td>ρ.</td><td>1192 1192 1192 1920 1920 1920 1920 1920</td><td></td><td></td><td>Spott hake</td><td>Spottseaho</td><td>Summe flour</td><td>T- ut o</td><td>0 8 0 0 8 0 0 9 0 0 1 0 0 1 0 0</td></td<>	III Category: Amphipoda	<u>Naked</u> Roby	Narth Pipef	Nort Puff	Oyste toedf	ρ.	1192 1192 1192 1920 1920 1920 1920 1920			Spott hake	Spottseaho	Summe flour	T- ut o	0 8 0 0 8 0 0 9 0 0 1 0 0 1 0 0
Ampelisca vedorum 6.3 Ampelisca vezili 6.3 (Batea catharinersia) 2350 Carapus ubularis X Corophium SD. 1.6 Camarus Compta 1.3 Camarus SD. 1.6 Camarus Moronaus 1.6 Camarus SD. 1.6 Corocherus SD. 1.6 PluQuideus SD. 1.6 Corocherus SD. 1.6 Marcodentopus SD. <td><u>Ampelisca sp</u></td> <td></td> <td>6.3</td> <td></td> <td></td> <td>X</td> <td></td> <td>X</td> <td>35.5</td> <td></td> <td></td> <td></td> <td></td> <td></td>	<u>Ampelisca sp</u>		6.3			X		X	35.5					
Ameriliscs vorilli Image: Complexity (Batea catharinensis) Image: Catharinensis) Carson Dizelowi Image: Catharinensis) Corrontium sp. Image: Catharinensis) Cammarus mpronatus			0.3							63	<u>_</u>			
The tea cather inersis Image: Cather in							+			<u>.</u>				ala nine managana managana ang a ka
Case object owi 12.5 Ceranus tubularis X Corobhium sp. 1.6 Corobhium sp. 1.6 Corobhium sp. 1.6 Corobhium sp. 6.3 Corobhium sp. 18.8 Corobhium sp. 13.3 Cammarus faciatus 16.7 Cammarus sp. 16.7 Leptochedrus 16.7 Leptochedrus 16.7 Leptochedrus 16.7 Leptochedrus 16.7 Leptochedrus 16.7 Leptochedrus 16.7 Cammarus sp. 16.7 Leptochedrus 16.7 Cammarus sp. 16.7 Cammarus sp. 16.7 Leptochedrus 16.7 Cammarus sp. 16.7 Pam. Lysianassidae 16.7 Fam. Hvalidae 16.7 Morodeutopus apel 5.9 Morodeutopus apel 5.9	(Batea catharinensis)				 	fanalite in gin fan fan sjin f				· · · · · · · · · · · · · · · · · · ·				
School of the spin spin spin spin spin spin spin spin	Casco bigelowi				ļ							207		catilities and the state
Corophilm Corophilm Corophilm 6.3 Circle Corophilm S.3 Circle Corophile S.3 Circle Corophile S.3 Corophilm S.3 Corophile S.4 Corophile S.5 Corophile S.6 Corophile S.6 Corophile S.6 Corophile S.6 Corophile S.6 Corophile S.6				<u>X</u>			<u> </u>	C 147 (1480) AND 1480 (1490)	17 6				20.0	
Corophium (Jucustre) 6.3 11.8 18.8 3.3 Cynadusa compta 6.3 11.8 18.8 3.3 Drastliensis Filenthonius Filenthonius Filenthonius Filenthonius Frienthonius Filenthonius Filenthonius Filenthonius Filenthonius Filenthonius Gammarus faciatus Filenthonius Filenthonius Filenthonius Filenthonius Gammarus chalatus Filenthonius Filenthonius Filenthonius Filenthonius Gammarus sp. Filenthonius Filenthonius Filenthonius Filenthonius Gammarus sp. Filenthonius Filenthonius Filenthonius Filenthonius Jumulosus Filenthonius Filenthonius Filenthonius Filenthonius			ļ						1.0			120)	240	87.
Cynadusa compta 6.3 1128 18.8 13.3 Drasiliensis Tubricornis 13.3 13.3 Erichthonius sp. X 13.3 13.3 Gammarus faciatus X 13.3 13.3 Gammarus moronatus 13.3 13.3 13.3 Gammarus diaberi 1 16.7 16.7 Gammarus diaberi 1 16.7 16.7 Lentocherus 16.7 16.7 16.7 Dinguis 1 16.7 16.7 Lentocherus 1.6 6.7 16.7 Dinguis 1 1.6 6.7 16.7 Lentocherus 1.6 16.7 16.7 16.7 Lentocherus 1.6 6.7 1.6 1.6 Fam. Lysianassidae 1.6 6.7 1.6 1.6 Microdeutopus sp. 5.9 1.6 6.7 1.6 Microdeutopus sp. 1.6 1.6 1.6 1.6 Microdeutopus sp. 1.6 1.6 1.6 1.6 Microdeutopus sp. 1.6 <td>(tuberculatum)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ļ</td> <td></td> <td></td> <td>****</td> <td></td> <td></td> <td></td> <td></td>	(tuberculatum)						ļ			****				
Cynadusa compta 6.3 1128 18.8 13.3 Drasiliensis Tubricornis 13.3 13.3 Erichthonius sp. X 13.3 13.3 Gammarus faciatus X 13.3 13.3 Gammarus moronatus 13.3 13.3 13.3 Gammarus diaberi 1 16.7 16.7 Gammarus diaberi 1 16.7 16.7 Lentocherus 16.7 16.7 16.7 Dinguis 1 16.7 16.7 Lentocherus 1.6 6.7 16.7 Dinguis 1 1.6 6.7 16.7 Lentocherus 1.6 16.7 16.7 16.7 Lentocherus 1.6 6.7 1.6 1.6 Fam. Lysianassidae 1.6 6.7 1.6 1.6 Microdeutopus sp. 5.9 1.6 6.7 1.6 Microdeutopus sp. 1.6 1.6 1.6 1.6 Microdeutopus sp. 1.6 1.6 1.6 1.6 Microdeutopus sp. 1.6 <td>Corophium (lucustre)</td> <td></td> <td>6.3</td> <td></td>	Corophium (lucustre)		6.3											
Brichthonius Image: Constraint of the second se	Cvmadusa compta			and a second	11.8					18.8			13.3	
Erichthonius X 03.3 Gammarus faciatus 1 1 Gammarus macronatus 1 1 Gammarus macronatus 1 1 Gammarus sp. 1 1 Gammarus sp. 1 1 Gammarus diaberi 1 1 Gammarus sp. 1 1 Lembos sp. 1 6.7 Lembos sp. 1 6.7 Lembos sp. 1 6.7 Lembos sp. 1 6.7 Leptocheirus sp. 1.6 6.7 Fam. Lysianassidae 1.6 6.7 Fam. Hysianassidae 1.6 6.7 Marinocammarus sp. 5.9 1.6 Microdeutopus anei 1 1 Microdeutopus anei 1 1 Morinoculoes sp.	Erichthonius	[1							
Erichthonius sp. X 13.3 Gammarus faciatus 16.7 Gammarus macronatus 16.7 Gammarus sp. 16.7 Leptochemus 6.7 Dinguis 6.7 Leptochemus 6.7 Dinguis 6.7 Leptochemus 6.7 Pam. Lysianassidae 6.3 Fam. Lysianassidae 6.3 Microdeutopus sp. 1.6 Microdeutopus sp. 1.6 Microdeutopus sp. 1.6 Microdeutopus sp. 1.6 Microdeutopus sp. 6.7 Microdeutopus sp. 1.6 Moncouldes sp. 1.6 Moncouldes sp. 1.6 Maera danae 1.7 Parametopella cyoris X Stenothoidae 12.5	Erichthonius			1	1		1							na ann mainn bainn a shinn a shinn an sh
Alfordon 193 50. Alfordon 193 50. Ganmarus moronaus 16.7 Ganmarus so. 6.7 Leptocheirus 16.7 Jumilosus 6.7 Leptocheirus 1.6 Jumilosus 1.6 Pan. Lvsianessidae 6.7 Fam. Hvelidae 6.3 Microdeutopus sp. 1.6 Microdeutopus sp. 6.7 Maera danae X Pan. Photidae 7 Parametopella cypris X Stenothoidae X Parameitoe 12.5 S. O. Gammaridea 12.5 Order Caprellidea 12.5							$\frac{1}{v}$			<u> </u>			13.3	anarangagajintarlayan 219
Gammarus muronabs 16.7 Gammarus sp. 6.7 Lembos sp. 6.7 Leptochedrus 16.7 Dimuis 16.7 Leptochedrus 16.7 Dimuis 16.7 Leptochedrus 16.7 Leptochedrus 1.6 Dimuis 1.6 Leptochedrus 1.6 Fam. Lysianassidae 1.6 Elasmopus laeyis X Marinogammarus 5.9 Microdeutopus 6.3 (gryllotalba) 1.6 Microdeutopus sp. 1.6 Microdeutopus sp. 1.6 Microdeutopus sp. 1.6 Microdeutopus sp. 1.6 Maera danae X Fam. Photidae 1.6 Fam. Talitridae 1.6 Unciola sp. X S.0. Gammaridea 1.6 remains 6.3 Yametoe 1.3 Jorder Caprellidea 16.7			<u> </u>		+		1	<u> </u>						
Gammarus diaberi 16.7 Gammarus sp. 6.7 Lembos sp. 6.7 Diffuis 1.6 Parant Lysianassidae 6.3 Fam. Hyslidae 6.3 Marinogammarus sp. 5.9 Microdeutopus sp. 1.6 Marinogamarus sp. 6.7 Marinogamarus sp. 1.6 Microdeutopus sp. 1.6 Morodeutopus sp. 1.6 Marinogamarus sp. 6.7 Marinogamarus sp. 6.7 Marinogamarus sp. 1.6 Marinogamarus sp. 1.7 <td></td> <td><u> </u></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>a har an an</td>		<u> </u>			1									a har an
Gammarus sp. 10.7 Lembos sp. 6.7 Lembos sp. 6.7 Dinguis 10.7 Dinguis 10.7 Leptocheirus 10.7 Jumulosus 10.7 Leptocheirus 10.7 Fam. Lvsianassidae 1.6 Fam. Lvsianassidae 6.3 Marinogammarus sp. 5.9 Microdeutopus sp. 1.6 Moncoulodes sp. 1.6 Maera danae 7 Fam. Photidae 1.7 Parametopella cypris X 1.7 Stenothoe minuta 6.3 S.0. Gammaridea 12.5 Order Caprellidea 12.5	Gammarus diaberi]		ļ					
Desire Diffusion Olnguis Diffusion Deptocheirus Diffusion Jeptocheirus Diffusion Fam. Lysianassidae Elasmopus Jeptocheirus Marinogammarus Diffusion Microdeutopus Diffusion Microdeutopus Diffusion (gryflotalpa) Gryflotalpa (gryflotalpa) Gryflotalpa Microdeutopus Zene Melita Sp. Melita Sp. Melita Sp. Marinogamarus Kara Marinogamarus G.7 Marane X Marane Yara Marane Yara Marane Yara Marane Yara Marane Yara	<u>Gammarus sp.</u>	Ļ	<u> </u>		_		- 		 		 		67	10.7
Leptocheirus	Lembos sp.	<u> </u>					- 		<u> </u>			<u> </u>	0.1	ang balan dari pang kalamber sa da
Leptocheirus sp.	pinguis				ļ									
Leptocheirus sp.	Leptocheirus													on desired and state and a Volt
Elasmopus laevis X 1.6 6.7 Fam. Hyalidae 6.3 6.3 Marinogammarus sp. 5.9 1.6 Microdeutopus sp. 1.6 6.3 Microdeutopus sp. 1.6 6.3 Microdeutopus sp. 1.6 6.3 Microdeutopus sp. 1.6 1.6 Orchestia platensis 0.7 1.6 Monoculodes sp. 0.7 1.6 Melita sp. 0.7 0.7 Maera danae X 0.7 Fam. Stenothoidae 7 0.7 Parametopella cypris X 0.7 Stenothoe minuta 6.3 1.7 Stenothoe minuta 6.3 1.7 Fam. Talitridae 1.2.5 13.3 16.7 Order Caprellidea 12.5 13.3 16.7									ļ			ļ	ļ	
Fam. Hyalidae 6.3 Marinogammarus sp. 5.9 Microdeutopus sp. 1.6 Orchestia platensis 1.6 Monoculodes sp. 1.6 Maera danae X Fam. Photidae 1.6.7 Fam. Stenothoidae 1.7 Parametopella cypris X Stenothoe minuta 6.3 Fam. Talitridae 1.1.6 Unciola sp. X S. O. Gammaridea 12.5 Order Caprellidea 12.5		L	ļ	ļ		 	- <u> </u>	<u> </u>	17 6		<u> </u>	<u> </u>	6 7	
Marinogammarus sp. 5.9 Microdeutopus sp. 1.6 Microdeutopus sp. 1.6 Microdeutopus manel 1.6 Orchestia platensis 1.6 Monoculodes sp. 1.6 Melita sp. 1.6 Marinogammarus sp. 1.6 Microdeutopus manel 1.6 Orchestia platensis 1.6 Monoculodes sp. 1.6 Melita sp. 1.6 Maera danae X Fam. Photidae 1.6 Parametopella cypris X Stenothoe minuta 6.3 Fam. Talitridae 1.76 Unciola sp. X S.O. Gammaridea 1.2.5 Order Caprellidea 12.5	<u>Elasmopus laevis</u>			10, 17 an 1907 Marca	┿	 	+	+	<u>µ.o</u>	6.3	┼	<u> </u>	10.1	
Microdeutopus sp. 1.6 Microdeutopus (gryllotalpa)	Fam. Hyalldae	<u> </u>			5.9	<u> </u>	+		+	<u> </u>			1	
Microdeutopus anei			1						1.6					
Microprotopus manel Orchestia platensis Orchestia platensis	Microdeutopus										1			
Orchestia platensis	Microprotopus manei													analise and a second and a second
Monoculodes sp. Melita sp. Maera danae X 6.7 Fam. Photidae	Orchestia platensis				1							ļ	. <u> </u>	
Maera danae X 0.7 Fam. Photidae Fam. Stenothoidae Fam. Stenothoidae Fam. Fam. Stenothoidae Parametopella cypris X Fam. Talitridae Fam. Talitridae Stenothoe minuta 6.3 X Fam. Talitridae Unciola sp. X Fam. Talitridae Fam. Talitridae Stenothoe minuta 6.3 X Fam. Talitridae Unciola sp. Stenothoe X Fam. Talitridae Order Caprellidea 12.5 Ja.3 16.7	Monoculodes sp.	ļ							. <u> </u>	<u> </u>	+		+	A DECIMAL DECI
Fam. Photidae Fam. Stenothoidae Parametopella cypris X Parametopella cypris Stenothoe minuta 6.3 Fam. Talitridae Unciola sp. S. 0. Gammaridea remains Order Caprellidea 12.5		<u> </u>				- V					-		6.7	and dept of the department of the optimized series of
Fam. StenothoidaeParametopella cyprisXStenothoe minuta6.3Fam. TalitridaeXUnciola sp.XS.O. Gammaridea6.3 X 17.6remains6.3 X 17.6Order Caprellidea12.5	Maera danae	<u> </u>	+				-							and a second state of the
Parametopella cypris X Stenothoe minuta 6.3 Fam. Talitridae	Fam. Stenothoidae	1	1								<u> </u>	<u> </u>	4	an a
Stenothoe minuta 6.3 Fam. Talitridae Unciola sp. S.O. Gammaridea remains 6.3 X Order Caprellidea 12.5	<u>Parametopella cypri</u>	6		X		L					<u> </u>			
Unciola sp. X S.O. Gammaridea 6.3 X 17.6 remains 6.3 X 17.6 Order Caprellidea 12.5	Stenothoe minuta	ļ	6.3			 					+		4	
S.O. Gammaridea 6.3 X 17.6 355 13.3 16.7 remains 6.3 X 17.6 355 13.3 16.7 Order Caprellidea 12.5 12.5				<u> </u>	+	-x		+	+					
remains 6.3 X 17.6 355 10.7 Order Caprellidea 12.5 12.5 10.7	S O Germaridea		+	<u> </u>	+	†		1				1		
Order Caprellidea 12.5	remains		6.3	X	17.6	ļ			355			ļ	13.3	16.7
	Order Caprellidea		12.5	þ		1								
-27-					ļ									
-27-						1								
-27-						[
-27-				ł		l								
-27-				1	1	1	1		ł				1	1
		1			.	27-								
				1		F ′				ł				1
		1		ļ	1	•		1	1	1				
								1				•	• ••	i

TABLE 2 (Cont'd): III CATEGORY: AMPNIPODA

 \bigcirc

III Category:	Tidewater Silver-		White	Window	Winter
III Category: Amphipoda	sides	Weakfish	perch	pane	flounder
Ampelisca sp.	ana ana amin'ny tanàna mandritra dia kaominina dia kaominina dia mampikambana amin'ny fisiana amin'ny fisiana a	15.0			10.6
Ampelisca abdita		5.0			16.5
Ampelisca vadorum					18.8
Ampelisca verilli					3.5
(Batea catharinersis					1.2
Casco bigelowi					. 2.4
Cerapus tubularis					
Corophium sp.			5.3		5.9
Corophium (tuberculatum)					1.2
Corophi u m (lucustre)			1.8		
<u>Cymadusa compta</u>			3.5	X	7.1
Erichthonius brasiliensis					
Erichthonius rubricornis					
Erichthonius sp.					1.2
Gammarus faciatus			7.0		
Gammarus mucroratus					
Gammarus diaberi			1.8		-
Gammarus sp.					na 1967, was successively destruction and the South State State
Lembos sp.			3.5		1.2
Leptocheirus pinguis					
Leptocheirus plumulosus	an comparante de altre a participação da calenda de la comparante da calenda da calenda da calenda da calenda d		15.8		1.2
Leptocheirus sp.					
<u>Fam. Lysianassidae</u>		-			4.7
<u>Elasmopus laevis</u>					4.
<u>Fam. Hyalidae</u>					
<u>Marinogammarus sp.</u>					2.4
Microdeutopus sp.					6.04
Microdeutopus (gryllotalpa)					3.5
<u>Microprotopus ranei</u>					2.4
<u>Orchestia platensis</u>			1.8		
Monoculodes sp.			1.8		
<u>Melita sp.</u>					1.2
<u>Maera danae</u>			<u> </u>		2.2
<u>Fam. Photidae</u>		nga ang mga ng mga n	1.8		
Fam. Stenothoidae					1.2
Parametopella cypris					
<u>Stenothoe minuta</u>			-		1.101-11.10 may discussion of the local states
Fam. Talitridae					
Unciola sp.					1.2
S.O. Gammaridea					10.6
remains	5.3	5.0	-		10.6
Order Caprellidea					1.2
		1			

 \bigcirc

TABLE 2	(CONT'd	a): CAI	EGORY	IV: I	sopoda	& Tana	idacea	
		Banded	1				orther	Lorth-
IV CAtegory:	Amer- ican	Killi	Bay	Sea	bull-	stickle	pipe-	ern
Isopoda & Tanaidac-	Eel	fish	anchovy	Bass	head	back	fish	Puffer
Cyathura polita		33.3		,	X			
Cirolana sp.		at 2000 To 1990 To 1990 To 2000 To 200		*****	X	a da da anti a da ant	n an	
Edotea triloba					X	1.4		
Erichsonella sp.								
Erichsonella attenuata							6.3	
Erichsonella filiformis	11.1			andra, John Williams, and Shaw View				
Idotėa sp.		*****				Aft:Chron Artsbirghundennations		and a stand sector of each sector of the
Idotea balthica	11.1			37.5	5			
Idotea phosphorea							12.5	X
<u>Idotea (metallica</u>						1.4		
Lepotochelia savignyi			1.6					
Tanais cavolini			<u></u>					a an
Isopoda remains			3.2				6.3	
на сталити на продокти и полна и на продокти на дискрати с при сталити на полнити на сталица и на продокти на В се се са са били на продокти на продокти на продокти на продокти с на продокти на са били и на продокти на про								a cafarina ann an
IV Category:	Oyster							Winter
Isopoda & Tanai-	Toad		Snap-		Spotted		White	
dacea	fish	Scup	per	1	Hake	Tautog	The state of the local distance of the second s	1
<u>Cyathura polita</u>		X		9.7			5.3	15.3
<u>Cirolana sp.</u>								
<u>Edotea triloba</u>				1.6				4.7
Erichsonella sp.				1.6		6.7		
Erichsonella				1		1 ~		
attenuata	11.8	<u> </u>			<u> </u>	.6.7		
Erichsonella	÷	i	· ·	÷.	+ -	26.7	₽. • I	+
<u>filiformis</u> Idotea sp.			X	+	6.3	20.1		
Idotea balthica	29.4		<u></u>	+	6.3	20.0		8.2
Idotea	27.7		· 	+	<u> </u>	20.0		
phosphorea								
			+	+			1	
<u>Idotea (Metallica)</u>			-		+			**************************************
Lepotochelia savignyi								
Tanais cavolini	+			6.5				1.2
	<u> </u>			+		20.0		
<u>Isopoda remains</u>				+	+	20.0		
]
	1	1						
								1
		Į	-29-					
			-~7				1	
				1	1	l		•
	•	•					1	1

TABLE 2 (Cont'd) V CATEGORY: MOLLUSCA

 \bigcirc

			l		, Plane-	,	
V CATEGORY:		Brown	4-spine	Oyster	head		Sil-
Mollusca	American	bull-	stickle-	toad-	file-		ver
***	Eel	head	back	fish	fish	Scup	perch
<u>Bittium</u> alternatum							<u> </u>
Bittium sp.		1	1.4				20.0
Crepidula sp.	1	1	1.4	5.9	h		20.0
Gemma gemma	[
<u>Haminoea solitaria</u>				11.8			
Laevicardium						**************************************	
mortoni				ومرغو بردي جدية برا حفاظه المحالية الشعا			
Bivalve siphons							
<u>Mitrella lunata</u>	11.1	L					······································
<u>Modiolus demissus</u> Mya arenaria	 						
Mytilus edulis	11.1		<u> </u>				
Nassarius sp.		X	1.4				- Contractor
Petricola				11.8			
Petricola pholadiformis							
Fam. Tellinidae				······································			
<u>Tagelus divisus</u>		1					
Fam. Veneridae	1					X	
<u>Bivalve remains</u>		X		,	Х		
Shell fragments							
<u>Littorina sp.</u>							
V CATEGORY:			Striped		Winter		
<u>Mollusca</u> <u>Bittium alternatum</u>	<u>Snapper</u>	Spot	Bass	perch	flounder 2,4		
Bittium sp.					<u> </u>		
Crepidula sp.					$\frac{1.2}{2.4}$		
<u>Gemma gemma</u>		1.6			<u> </u>		
Haminoea solitaria		<u> </u>			1.2		
Laevicardium Mortoni					1.2		
Bivalve siphons				1.8	34.1		
Mitrella lunata					1.2		
Modiolus demissus		3.2					
Mya arenaria							
Mytilus edulis			10.0				
Nassarius sp.							
Petricola							
pholadiformis					1.2		
<u>Fam. Tellinidae</u>					$\frac{1.2}{1.2}$		
<u>Tagelus divisus</u>					1.2		
Fam. Veneridae		4.8					
<u>Bivalve remains</u>	X	1.6		1.8			
Shell fragments			10.0				
LITTONING CD						1	
Littorina sp.		1.6	10.0				
DI COOLINA BD.		1.6	10.0				

 \bigcirc

You are Viewing an Archived Copy from the New Jersey State Library

TABLE 2 (Cont'd) VI CATEGORY DECAPODA

				<u> </u>	0111100		
	Oyster	1	1	1	i	1 3	potted
VI Category:	toad	Pin	Silver			spotted	sea
CARIDEAN SHRIMP	fish	fish,	perch	Shannor	Spot	hake	horse
				Snapper	- Spor	* {······	1
<u>Crangon septemspirosa</u>	5.9	<u> </u>	6.0		+	43.8	<u> X </u>
Palaemonetes vulgaris	5.9					12.5	
Palaemenetes pgio				a di Malanza di La mga kang sa kan 12 si ka di Malanda ka ka		6.3	
Palaemonetes (intermedius)							
(intermedius)					<u></u>		
Palaemonetes sp.	5.9		20.0	X	• • * ** /******		
Caridean remains			20.0	<u></u>			ander and
BRACHYURAN CRABS							
Ovalipes ocellatus							
Brachyuran remains					1.6		
Callinectes sapidus							
Fam. Xanthidae	5.9	an an all and an an all a later to the second s			1.6		
A CALL STREET, MARKING,							
Eurypanopeus depressus					<u> </u>		
Neopanope						6.3	
<u>texanna sayi</u>	11.8				+	0.5	
Rhithropanopeus harrisii	5.9						
							and a second
VI Category:						Win-	
Decapoda	Red	Striped	Summer	rau-Weak	White	dow	Winter
CARIDEAN SHRIMP	hake	bass	flourder		perch	pane	flander
Crangon septemspinosa	Х	40.0		13.3 40.0		X	8.2
Palaemonetes						1	
<u>vulgaris</u>					3.5	<u> </u>	$\frac{10.6}{2.4}$
Palaemonetes pugio					+		<u> </u>
Palaemonetesx (intermedius)					1.8	X	
Palaemonetes sp.						′	3.5
<u>Caridean remains</u>			12.5			X	
BRACHYURAN N CRABS							
Ovalipes ocellatus				6.7			
Brachyuran remains				6.7		an an a suite ann an	1.2
Callinectes sapidus			12.5	13.3 5.0	1.8		3.5
Fam. Xanthidae				13.3 5.0 33.3 5.0	an a		3.5 2.4
Eurypanopeus							0 7
depressus ;				┝			3.5
Neopanope			10 5	122	1 0		50
<u>texanna sayi</u> Rhithropanopeus		· · · · · · · · · · · · · · · · · · ·	12.5	13.3	1.8		5.9
harrisii			12.5		1.8		2.4
1407 7 T DI I			<u>+~°</u>		+	-	60 9 T
		1	1	1 1	1	1	
	· · · ·						
			:				

-31-

You are Viewin TABLE 2	ng an Aro	chived C נתי)		<mark>m the Ne</mark> Catego		y State	Library			
	(001/1		0	_	0 0 0 0 0		ŋ	Q		ų
VI Category: Decapoda	Ale- Wife	American eel	Atl-nti silver- sides	िay Anchoùy	Bleck s bess	Blue- fish	Brown bullhead	Crevalle jack	Mummi- chog	No rthern sennet
<u>CARIDEAN SHRIMP</u> Crangon septem- spinosa	16.7		3.0		50.0	18.2		x	10.0	
Palaemonetes vulgaris	16.7					18.2				
Palaemonetes pugio										
Palaemonetes (intermedius) Palaemonetes sp.			1.5							
Caridean remains										16.7
BRACHYURAN CRABS										
<u>Ovalipes ocellatus</u> Brachyuran remains		11:1			12.5		X			
<u>Callinectes</u> sapidus	9 - 6 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 -	<u>33.3</u> 11.1	3.0		12.5					
<u>Fam. Xanthidae</u> Eurypanopeus		<u> </u>	<u></u>							and the second
<u>depressus</u> Neopanope				- <u> </u>	12.5					
texanna sayi	anger anderes geven verste	<u>11.1</u>			25.0					
Rhithropanopeus harris ii	ويتقاله الردي والمراج والمراجع ويسترج	<u>11.1</u>			12.5					
				-						
						•				
			_	32 -						
								1	1	
and the second				••••••••••••••••	1.000					l

You are Viewing an Archived Copy from the New Jersey State Library TABLE 2: Cont.d): VII Category Zooplankton

		1				1)
WIT. Octomore		+1 ont in	۸+10 n+ ' م	American	A+lartia	Banded	
VII: Category:	4		needle-			killi-	Bay
Zooplankton *	Al out f	e haden	fish		sides	fish	achovy
	ATEMIT	<u>a nauen</u>	11211			T T 211	
Order Calanoida	33.3	20.0		80.0	43.3	-	80.6
Order Harpacticoida			7.1	artanut des, al Quit, rate, 1, and 1, and the s	7.5		43.6
Order Cyclopoida						-	3.2
S. Class Copenoda						22.2	
S. Class Ostracoda					1.5		38.7
Order Cladocera			7.1				11.3
Order Cumacea					and the state of the	44.4	3.2 24.2
Class Turbellaria							24.2
Cirripedia nauplii						-	1 1.6
Gastropoda larva							33.9
Polychaete larva							4.8
Caridean larva			7.1				33.9 4.8 8.1 14.5
Brachyuran larva			21.4				14.5
Copepoda mauplii							
Bivalve larva							1.6
Mysidopsis bigelowi					1.5		
Neomysis americana	66.7				28.4		29.0 4.8
	a constant surface , this is a strength of the			1	6.0	-	4.8
MUSIC LENGTIS							A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE OWNER
<u>Mysid remains</u>		- <u>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997</u>	9999-2019	and musical states and a state of the state			
	lacea		ang pang mang sana sana pang terang pang sana sang pang sana sang pang sana sang pang sana sang pang sana sang Pang pang pang sana sang pang sana sang pang sang pa	Drown		an anna an Anna Anna Anna Anna Anna Ann	
##Includes Order Mysi		Dhobcolc	Pluo	Brown	, an		4-spine
<pre>##Includes Order Mysi VII Category:</pre>	Black	Eluebæck		bull-	Crevalle	Cupper	4-spine stickle
##Includes Order Mysi	Black	Eluebæck Herring		bull-	, an	Cunner	4-spine stickle back
<pre>##Includes Order Mysi VII Category: Zooplankton *</pre>	Black			bull- head	Crevalle	Cunner	4-spine stickle back
<pre>##Includes Order Mysi VII Category: Zooplankton Order Calanoida</pre>	Black Seabass	Herring		bull-	Crevalle	Cunner	4-spine stickle
<pre>##Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Harpacticoida</pre>	Black Seabass	<u>Herrirg</u> 100.0		bull- head	Crevalle	Cunner	4-spine stickle back
"*Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Harpacticoida Order Cyclopoida	Black Seabass	<u>Herrirg</u> 100.0		bull- head	Crevalle	Cunner	4-spine stickle back 55.1 40.6
"*Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Harpacticoida	Black Seabass	<u>Herrirg</u> 100.0		bull- head	Crevalle	Cunner	4-spine stickle back
"*Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda	Black Seabass	Herring 100.0 20.0		bull- head	Crevalle	Cunner	4-spine stickle back 55.1 40.6
"*Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera	Black Seabass	Herring 100.0 20.0		bull- head	Crevalle	Cunner	4-spine stickle back 55.1 40.6 4.3
"*Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea	Black Seabass	Herring 100.0 20.0		bull- head	Crevalle	Cunner	4-spine stickle back 55.1 40.6
 "*Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria 	Black Seabass	Herring 100.0 20.0		bull- head	Crevalle	Cunner	4-spine stickle back 55.1 40.6 4.3
***Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii	Black Seabass	Herring 100.0 20.0		bull- head	Crevalle	Cunner	4-spine stickle back 55.1 40.6 4.3
 ""Includes Order Mysi VII Category: Zooplankton " Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva 	Black Seabass	Herring 100.0 20.0		bull- head	Crevalle	Cunner	4-spine stickle back 55.1 40.6 4.3
 **Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva 	Black Seabass	Herring 100.0 20.0 10.0		bull- head	Crevalle		4-spine stickle back 55.1 40.6 4.3
 "*Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva 	Black Seabass	Herring 100.0 20.0 10.0		bull- head	Crevalle	Cunner	4-spine stickle back 55.1 40.6 4.3
 ""Includes Order Mysi VII Category: Zooplankton " Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva Brachyuran larva 	Black Seabass	Herring 100.0 20.0 10.0	fish	bull- head	Crevalle		4-spine stickle back 55.1 40.6 4.3
 **Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Calanoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva Brachyuran larva Copepoda nauplii 	Black Seabass	Herring 100.0 20.0 10.0	fish	bull- head	Crevalle		4-spine stickle back 55.1 40.6 4.3
 **Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Calanoida Order Cyclopoida S. Class Copepoda S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva Copepoda nauplii Bivalve larva 	Black	Herring 100.0 20.0 10.0	fish	bull- head	Crevalle jack		4-spine stickle back 55.1 40.6 4.3 4.3 2.9
***Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva Brachyuran larva Copepoda nauplii Bivalve larva Mysidopsis bigelowi	Black	Herring 100.0 20.0 10.0	fish	bull- head	Crevalle		4-spine stickle back 55.1 40.6 4.3 4.3 2.9
 **Includes Order Mysi VII Category: Zooplankton * Order Calanoida Order Calanoida Order Cyclopoida S. Class Copepoda S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva Copepoda nauplii Bivalve larva 	Black	Herring 100.0 20.0 10.0 10.0 20.0	fish 9.1	bull- head	Crevalle jack		4-spine stickle back 55.1 40.6 4.3

*Includes Order Mysidacea

You are Viewing an Archived Copy from the New Jersey State Library TABLE 2: Cont'd) VII Category: Zooplankton

		1			. i	Rain	
					Oyster	water	
VII Category	Hog-	Northern	Northern	Northern	toad-	killi-	
Zooplankton	choker	pipefish	Puffer		fish	fish	Scup
		25.0	X			X	
<u>Order Calanoida</u>	X	12.5	<u>.</u>		5.9	X	
<u>Order Harpacticoida</u>	^	12.)					andre say a set and so and the state
Order Cyclopoida		6.3	arpo 12 a 28 della fattalianda della Constantia				,
S. Class Copepoda		<u> </u>	X	ana da dalaman sekirin dalam baran			
S. Class Ostracoda			<u></u>	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		and the second secon	، د چین از این روین و بین اور این این و این و این و این
Order Cladocera					and the second state of th		
Order Cumacea		18,8	Х				
<u>Class Turbellaria</u>		10.0	<u> </u>				ng makanan adapti gindan sur dari di daripa dala Pri
<u>Cirripedia nauplii</u>					anta seper para , alfanti la si, denis fait pe	a ya ya ku yaka sheka sheka sheka sheka a ta	and a subscription of the
<u>Gastropoda larva</u>							الد بين برين المراجع بي المراجع التي الي الي الي الي الي الي الي الي الي ال
<u>Polychaeta larva</u>		6.3				an a	and the state of the
<u>Caridean larva</u>		12.5					and an and the second
<u>Brachyuran larva</u>		16.7					ang bangan ku pangangan pangan ku pangan
<u>Copepoda nauplii</u>						and the state of the	andre and the grap of the second s
Bivalve larva							a a a a a a a a a a a a a a a a a a a
<u>Mysidopsis bigelowi</u>		56.3		16.7		an a	X
<u>Neomysis americana</u>							
Mysid remains							an general an anna an anna an an an an an an an an
				1	1	1	
						· ·	
					gnottod		
	C 1			Spotted	Spotted		
VII Category:	Silver		Grat	Spotted	sea	Summer	Tautor
Zooplankton	Silver perch	Snapper	Spot	hake			
Zooplankton Order Calanoida		Snapper X	21.0		sea	Summer	Tautog 6.7
Zooplankton Order Calanoida Order Harpacticoida				hake	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida			21.0 37.1	hake	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda			21.0 37.1 48.4	hake 25.0	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda			21.0 37.1 48.4 1.6	hake	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera			21.0 37.1 48.4 1.6 1.6	hake 25.0	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea			21.0 37.1 48.4 1.6 1.6 4.8	hake 25.0	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria			21.0 37.1 48.4 1.6 1.6	hake 25.0	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii			21.0 37.1 48.4 1.6 1.6 4.8 3.2	hake 25.0	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva			21.0 37.1 48.4 1.6 1.6 4.8	hake 25.0	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva			21.0 37.1 48.4 1.6 1.6 4.8 3.2 1.6	hake 25.0	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva			21.0 37.1 48.4 1.6 1.6 4.8 3.2	hake 25.0	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva Brachyuran larva			21.0 37.1 48.4 1.6 1.6 4.8 3.2 1.6	hake 25.0	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva Brachyuran larva Copepoda nauplii			21.0 37.1 48.4 1.6 1.6 4.8 3.2 1.6 1.6	hake 25.0	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva Brachyuran larva Copepoda nauplii Bivalve larva	perch		21.0 37.1 48.4 1.6 1.6 4.8 3.2 1.6	hake 25.0	sea	Summer	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva Brachyuran larva Copepoda nauplii Bivalve larva Mysidopsis bigelowi	perch		21.0 37.1 48.4 1.6 1.6 4.8 3.2 1.6 1.6	Hake 25.0 6.3	sea horse	Summer flourder	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva Brachyuran larva Copepoda nauplii Bivalve larva Mysidopsis bigelowi Neomysis americana	perch		21.0 37.1 48.4 1.6 1.6 4.8 3.2 1.6 1.6 1.6 8.1	hake 25.0	sea horse	Summer flourder	
Zooplankton Order Calanoida Order Harpacticoida Order Cyclopoida S. Class Copepoda S. Class Copepoda S. Class Ostracoda Order Cladocera Order Cumacea Class Turbellaria Cirripedia nauplii Gastropoda larva Polychaete larva Caridean larva Brachyuran larva Copepoda nauplii Bivalve larva Mysidopsis bigelowi	perch		21.0 37.1 48.4 1.6 1.6 4.8 3.2 1.6 1.6	Hake 25.0 6.3	sea horse	Summer flourder	

 \bigcirc

You are Viewing an Archived Copy from the New Jersey State Library TABLE 2 (Contid): VII Category Zooplankton

	100110 07	AND ADD ADD ADD ADD ADD ADD ADD ADD ADD				
		Tide			1	1
	3 spined		۱ I			
VITT O the monoton	stickle	ailwor	Weak-	White	/indow-	Winter
VII Category:					1	flounder
Zooplankton	back	sides	fish	perch	pane	ITonuger.
Order Calanoida	66.7	47.4		17.5		
Order Harpacticoida	16.7	and a subscription of the				5.9
Order Harpacorcorda	0_ (and the second secon		194-48-15 SAVE AND ADDRESS OF ADDR		
<u>Order Cyclopoida</u>				Taralalaya anii eye gargania 12500 may kada		and the second
S. Class Copepoda	16.7	36.8		y Na mandalana ang dia dipanaka ang diasana dira kapata na mata		
S. Class Ostracoda				alaran waanaa da sa waxay ya aharan ahara ya ƙa	ang	1.2
Order Cladocera		5.3				
Order Cumacea	a na an	5.3				3.5
Cluer Oumacea		15.8				al constant want of a finger as galled Weinstein Tara Inter
<u>Class Turbellaria</u>	and a state of the	17.0				and the second s
<u>Cirripedia nauplii</u>		and the second secon				
<u>Gastropoda larva</u>				an a		
Polychaete larva						
Caridean larva	an a			3.5		
var Lucan Larva		a ya ya mata kata kata na kata		1.8		
Brachyuran larva			 		+	
<u>Copepoda nauplii</u>	a an					
Bivalve larva				an an air an air an air an air an air an	-	11 (desp. of a ") of a rest of the local data o
<u>Mvsidopsis bigelowi</u>						
Neomysis americana	66.7	,	65.0	66.7	X	12.9
M wid now a hor				1.8	1	
Mysid remains	-					
		l				
				1		
				1		
				1		
			1			
			1			
			1	1		
:						
			·			
		1				
		[1		
				1		
		1		1		
			1	1 .		
					1	
		1	1	1	I	ł
		1	1	1	1	
		1	1	1	1	
			1		1	
			1	ł	ł	1
			1		1	
		1	1	1	1	
	1	1.00		ł		1
			1	1	1	
		1				
			1		1	
	1	1	1		1	
		1	1	1	1	
		1	1		1	
			1	1	1	
		1		1		
		1				
			1			
				1		· ·
		-3	51-		1	
				1		1
	l		ł		•	

You are Viewing an Archived Copy from the New Jersey State Library TABLE 2 (Cont'd) VIII Category: Insecta

()

VIII Category: Insecta	Alewife	ne	ntic edle- ish	si	ntic lver ides	Bay	Brown Bullhead
Order Coleoptera	16.7						ting a lange and the second
Order Diptera).	0 0	2	0		
<u>(adult)</u> Order Diptera	19 10 10 10 10 10 10 10 10 10 10 10 10 10		2.9		.0	an a	
(larva)			التوفار حماره مرافق الروميس		an a suite ann an suite an sui		
Chironimidae larva			****	-	a ann an tha ann an th	4.8	X
<u>Chironimidae pupae</u> Other larva				-		n an	n and a second
Order Acari							an ar for the second
Adult Insect remains							
Winged ants		2	1.4	1	• 5		realization of the second
Fam. Cicadellidae				1_1	.5		
Order Plecoptera			المتعاقدين في المنافقين من المنافقين من المنافق المنافق الم		الم مقال الم الم الم الم الم الم الم الم الم ا		ng na mang ng n
				ţ			
			ì				
VII Category:	Four-spine					water	White
Insecta	stickleba	<u>ck</u>	<u>Spo</u>	<u>t </u>	silv	ersides	perch
Order Coleoptera						ana a shuman a Bang ya a wanda mami 74 a	an basa panjang panjang pangang pangan
Order Diptera							1.8
(adult)						na cantourny culture discovers and contract of	1.0
Order Diptera (larva)			3.	2		an an an an tha tha an	and the second
Chironimidae	7 1		4.	o			17.5
<u>larva</u> Chironimidae	1.4	مغطورة فبالإدر ويتوجد وع	······	<u> </u>			
pupae						alagageningagadis di Pariniputatin' di Pari	3.5
Other larva	1.4		3.	2		5.3	a name and a state of the state
<u>Order Acari</u> Adult Insect	1					and the second	
remains				والكارد ورادي والمراجع والمراجع		5.3	1.8
<u>Winged ants</u> Fam. Cicadellidae			* ********* **************************	a da a da mayo na da mata da m La		an de mante de san de la completa de differi de la completa de la completa de la completa de la completa de la	
<u>Fam. Cicadellidae</u> Order Plecoptera		aper with the second				n dan kan dan kanan d	1.8
		A DESCRIPTION OF TAXABLE PARTY.			* [cares and a second s	Mandal Manager & States, 5 and 5 Manufactures of the states of the state	
		ada yanga di dinda diga l				ann fan de seine an fan de seine state en seine se	
		a dag i kangan da silan da silan d			-	an da angla na ang ang ang ang ang ang ang ang ang	

36-

()

You are Viewing an Archived Copy from the New Jersey State Library TABLE 2(Cont'd) IX Category: Other

IX Category: Other	Ale- wife	Amer- ican eel	Atla- ntic men- haden	Atla- ntic needle fish	Amer- ican sand lance	Atla- ntic silver sides	Banded killi- fish
Limulus polyphemou							
Pagurus longicarpu							*****
Molgula manhattensi	3						ang taun taun taun taun taun taun taun taun
<u>Class Hydrozoa</u>		1		- Arcticles and Annual Arctic	-	3.0	
Phylum Bryozoa	_	-		-		el na nativemplative aufit i litering vergangenet av	ala ang ang ang ang ang ang ang ang ang an
<u>S. Class Cirripedi</u> Class Cestoda	aj						la til terrangen verseten gel in sinder og system.
Class Nemotoda		11.1		***		1.5	11.1
Order Actiniaria	1					<u> </u>	
Terrestrial seed						darradire. Material el respectation materiale	
pods						3.0	
Diatoms		(** Jacobian and the subscription of the sub-	100.0	-			11.1
(Englenoid)			-			1.5	a nin a sa an
Other algae	33.3	11.1	100.0		متوسفة كمل الافتان تجاه فالما فطالا الأعيد	9.0	55.5
Fibrous plant remains	33.3	22.2				11 0	
Unidentified eggs	<u> </u>	33.3		7.1		11.9	<u> 11.1 </u>
Sediment				<u>_</u>	an Branchad Bradford Strategy and St	Managan, para - Mirika (Managan, Managan)	33.3
Unidentified					a Status regioner a constant and a status of the status of		
remains		11.1			20.0		

IX Category: <u>Other</u>	Bay Anchovy	Black sea bass	Blue- back herring	Brown bull head	Cunner	Four spined sticklebæk back
Limulus polyphemous						······································
<u>Pagurus longicarpus</u>	101. Wester (1997) (1997) (1997)	12.5				
<u>Molgula mantattensis</u>						
<u>Class Hydrozoa</u>					X	
<u>Phylum Bryozoa</u>						
<u>S. Class Cirripeda</u>	······································				·	
<u>Class Cestoda</u>				·		
<u>Class Nematoda</u>	1.6				*	10.1
<u>Order Actiniaria</u>	and an article sector of the s					and the second design of the s
Terrestrial seed						
Diatoms				-		
(Englenoid)						
<u>Other algae</u>			10.0			8.7
Fibrous plant						
remains	3.2		10.0	Х		5.8
Unidentified						
eggs						
Sediment	1.6			X		4.3
Unidentified]		
remains	1.6					
	5	1	1	1	1	1

()

You are Viewing an Archived Copy from the New Jersey State Library TABLE 2 (Cont'd) IX Category: Other

i

	1				
IX Category: Other	Golden Shiner	Hog choker	Mummi- chog	Northern pipefish	Northern puffer
Limulus polyphemous					
Pagurus longicarpus					
Molgula manhattensis					
Class Hydrozoa					<u>X</u>
Phylum Bryozoa					
S. Class Cirripedia					
<u>Class Cestoda</u>					
<u>Class Nematoda</u>			30.0	12.5	
<u>Order Actiniaria</u>				·	
Terrestrial seed				*	
pods					
Diatoms					
(Englenoid)					
<u>Other algae</u>				10.0	-
Fibrous plant					37
remains		X	10.0		<u>X</u>
Unidentified eggs					
<u>Sediment</u>		X			<u></u>
Unidentified			10.0	()	
remains	<u>X</u>	<u>X</u>	10.0	6.3	
					1 · · · · · · · · · · · · · · · · · · ·
		Plana-	Pain	Sheeng-	
TV Category	Ourston	Plane-	Rain	Sheeps-	
IX Category:	Oyster Mondfich	head	water	head	Spot
IX Category: Other	Oyster Toadfish				Spot
Other Limulus polyphemous	Toadfish	head	water	head	<u>Spot</u>
Other Limulus polyphemous Pagurus longicarpus	Toadfish	head	water	head	Spot
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis	Toadfish	head Filefish	water	head	
<u>Other</u> Limulus polyphemous Pagurus longicarpus	Toadfish	head	water	head	<u>Spot</u>
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa	Toadfish	head Filefish	water	head	
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia	Toadfish	head Filefish	water	head	
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda	Toadfish	head Filefish	water	head	11.3
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia	Toadfish	head Filefish	water	head	
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda Class Nematoda Order Actiniaria	Toadfish	head Filefish	water	head	11.3
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda Class Nematoda Order Actiniaria Terrestrial seed	Toadfish	head Filefish	water	head	11.3
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda Class Nematoda Order Actiniaria Terrestrial seed pods	Toadfish	head Filefish X	water	head <u>Minnow</u>	11.3
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda Class Nematoda Order Actiniaria Terrestrial seed pods Diatoms	Toadfish	head Filefish	water	head	11.3
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda Class Nematoda Order Actiniaria Terrestrial seed pods Diatoms (Englenoid)	Toadfish	head Filefish X X	water <u>Killifish</u>	head <u>Minnow</u> 100.0	11.3
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda Class Cestoda Class Nematoda Order Actiniaria Terrestrial seed pods Diatoms (Englenoid) Other algae	Toadfish	head Filefish X	water	head <u>Minnow</u>	11.3
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda Class Cestoda Class Nematoda Order Actiniaria Terrestrial seed pods Diatoms (Englenoid) Other algae Fibrous plant	Toadfish 47.1	head Filefish X X	water <u>Killifish</u>	head <u>Minnow</u> 100.0 100.0	11.3
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda Class Nematoda Order Actiniaria Terrestrial seed pods Diatoms (Englenoid) Other algae Fibrous plant remains	Toadfish	head Filefish X X	water <u>Killifish</u>	head <u>Minnow</u> 100.0 100.0 20.0	<u>11.3</u> <u>54.8</u> <u>1.6</u>
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda Class Cestoda Class Nematoda Order Actiniaria Terrestrial seed pods Diatoms (Englenoid) Other algae Fibrous plant remains Sediment	Toadfish 47.1	head Filefish X X	water <u>Killifish</u>	head <u>Minnow</u> 100.0 100.0	11.3
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda Class Cestoda Class Nematoda Order Actiniaria Terrestrial seed pods Diatoms (Englenoid) Other algae Fibrous plant remains Sediment Unidentified	Toadfish 47.1 23.5	head Filefish X X	water <u>Killifish</u>	head <u>Minnow</u> 100.0 100.0 20.0	11.3 54.8 1.6 12.9
Other Limulus polyphemous Pagurus longicarpus Molgula manhattensis Class Hydrozoa Phylum Bryozoa S. Class Cirripedia Class Cestoda Class Cestoda Class Nematoda Order Actiniaria Terrestrial seed pods Diatoms (Englenoid) Other algae Fibrous plant remains Sediment	Toadfish 47.1	head Filefish X X	water <u>Killifish</u>	head <u>Minnow</u> 100.0 100.0 20.0	<u>11.3</u> <u>54.8</u> <u>1.6</u>

 \bigcirc

You are Viewing an Archived Copy from the New Jersey State Library

TABLE 2 (Cont'd) - IX Category: Other

) א מתתאד	00110 @/					Four-
IX Category: Other	Spotted Hake	Red hake	Striped mullet	Summer flounder	Tautog	spined stickle back
<u>Limulus polyphemous</u> Pagurus longicarpus				and the second		
Molgula manhattensis			Construction of the other states of the other	an a		
Class Hydrozoa					6.7	
Phylum Bryozoa		م منظم بعد الم بين من الم		12.5	- 6.7	
S. Class Cirripedia				and the second	6.7	
Class Cestoda		بار ویسا افاده در میانند ورد مین بازد بر از مین می اوند و ا				
Class Nematoda	18.8	X		12.5		
Order Actiniaria						
Terrestrial seed						
pods						
Diatoms			Х			
(Englenoid)		میز انتخاب کا ایر ایرین اندام اور با نامانی کا بردی مقدری ا				
Other algae			X			16.7
Fibrous plant	<u> </u> †					
remains	12.5			37.5	20.0	A sum for a superior of the second state of th
Unidentified eggs		ويسترجعون والبريد ويتواط بالبريد المعرودين				
Sediment			X		13.3	
Unidentified						
remains					20.0	
	Tide	المراجع من من المراجع المراجع المراجع المراجع				
	water					Winter
IX Category:	silver-	Weak-	White	White	Window	flounder
Other	sides	fish	mullet	perch	pane	
			marree	501011		1.2
Limulus polyphemous	5					
Pagurus longicarpus						
Molgula				2		2.4
manhattensis				1.8		2.4
<u>Class Hydrozoa</u>			· · · · · · · · · · · · · · · · · · ·			
Phylum Bryozoa				1.8		2.4
<u>S. Class Cirripedia</u> Class Cestoda	1			<u></u>		1.2
Class Cestoda				1.8		11.8
<u>Class Nematoda</u> Order Actiniaria		فنقاب فتناسب البريد ببإدفادت ويريد فلنفص و			X	
Terrestrial seed						1
				1.8		and the second
pods	5.3	ی بر بر می از این از این این بر این می این بر ا این این این این این این این این این این		1.8		
<u>pods</u> Diatoms	5.3			1.8		
pods Diatoms (Englenoid)				1.8		
pods Diatoms (Englenoid) Other algae	5.3 15.8			1.8		
pods <u>Diatoms</u> (Englenoid) Other algae Fibrous plant		5.0	100.0			35.3
pods <u>Diatoms</u> (Englenoid) Other algae Fibrous plant		5.0	1.00.0	19.3	 	
pods Diatoms (Englenoid) Other algae Fibrous plant remains Unidentified eggs		5.0	100.0		X	<u>35.3</u> 14.1
pods Diatoms (Englenoid) Other algae Fibrous plant remains Unidentified eggs Sediment		5.0		<u>19.3</u> 1.8	X	14.1
pods <u>Diatoms</u> (Englenoid) <u>Other algae</u> Fibrous plant <u>remains</u> <u>Unidentified eggs</u> <u>Sediment</u> Unidentified		5.0		19.3	X	
pods Diatoms (Englenoid) Other algae Fibrous plant remains Unidentified eggs Sediment				<u>19.3</u> 1.8		14.1

Ē

TABLE 3 COLLECTION DATA BY FISH SPECIES FOR JULY '73 - JUNE '75

Species	Size of Specimens (cm)	No. of Stomachs Examined	No. of Empty Stomachs	Months Collected	Stations Collected
Alewife	9-34	6	0	Jan.,Mar April,May	
American eel	12-60	9	0	April, June, July	T8,T16,T23, S7, S2
Atlantic menhaden	<u>13-16</u>	5	0	July	<u> </u>
Atlantic needlefish	5-58	14	0	June, July	\$2,\$3,\$6, <u>\$7</u>
American <u>sandlance</u>	9.4 - 11.5		0	November	<u>85.Tl</u>
Atlantic silversides	4-12	71	4	Jan-July	T2,T4,T10, T12,T15, T23,T24,
• •					T25,S1,S2, S9,S13,S16 GS20
Banded killifish	38	9 67	0	Jan, July	<u>\$16,518</u>
Bay anchovy	5-11	67	5	Mar-July	T2,T4,T7,T8 T10,T11,T12 T15,T23,T24 T26,S7,
Black seabass	10-19	9	1	June-Sept,	T3,T9,T26 <u>T14,T12,T8</u>
Blueback herring	7-10	10	0	Feb,Apr, May	T25,T15, T12,GS20
Bluefish	6-33	12	1	June, July	T10,T26, S2,S6, Little Egg Inlet
Brown bullhead	21-26	3	0	Lay,Sept	<u>. T15</u>
Crevalle jack	4-8	6	2	July	<u>\$7,516</u>
Cunner	44		0	August	<u> </u>
Fourspine stickleback	3-6	73	4,	Jan-July	T15, T16, T23
		page 40		\$15,\$17	T2, 14, T12, 52, S16, S16, ,S19, S10, S9, S3

 \bigcirc

Page 2 TABLE 3 (Cont.d)

	Size of Specimens		No. of Empty	Bonths	Stations
<u>Species</u> Golden shiner	(cm) 15	Examined 2	Stomachs 0	Collected August	Collected T15
Nogchoker	4-17	5	2	Apr., May, Nov.	<u>T15,T16</u>
Lizzardfish	10]	0	July	56
Mummichog®	4-10	13		Nov., Jan.	<u>\$18,57,52</u>
Naked goby	5	1	0	June	<u>T</u> 4
Northern pipefish	9-21	16	0	BarJuly	T13,T2,T12,S2 T23,T4,T8,T7
Northern puffer	3	1	0	July	<u>F10</u>
Northern s _e nnet	10-13	6	0	July	<u>\$6,\$2</u>
Cyster toadfish	4-28	22	5	July,Sept., Cct.,Apr., June	T9,T8,T13, T14,T4,T10, S2,S7,S6
Pinfish	6-7	2	0	July	<u>s6</u>
Planehead filefish	13	1	0	Cctober	<u>T5</u>
Rainwater <u>killifish</u>	3-4	3	1	<u>Jan.,June,July</u>	<u>\$6,82,815</u>
Redfin pickerel	14-26	2	1	July,Sept.	<u>518,T15</u>
<u>Red hake</u>	13		0	June	<u>T12</u>
Scup	14		0	Oct.	<u>T6</u>
Sheepshead 	3-5	6]	Jan., June November	S9,S18,S15, S16,S2
Silver perch	6-12	55	0	Oct.	T10,513
Snapper	4-5	2	0	June	<u>52</u>
Spot	3-18	62	0	July-Oct., June	T16,S13,T23 T14,T15,T2, T10,S9,S7, T9,T26,T13, S2,S6,S16, GS18,T1,T26
Spotted hake	5-19	16	0	April-June	T4,T12,T2, T8,T10,S2
Spotted seahorse	8	1	0	June	<u>T10</u>
Striped bass	43.4-56.4	12	2	Nov,Jan,May	T1,GS17, T23
			41-		

Page	3	
TABLE	3	(Cont'd)

		TABLI	<u>3 (Contic</u>	<u>1)</u>	
Species	Size of Specimens (cm)	No. of Stomachs Examined	No. of Empty Stomachs	Months Collected	Stations Collected
Striped _killifish	5-11	4	3	July,Jan.	<u>S1,52</u>
Striped mullet	<u>11-16</u>	5	<u> </u>	Oct., Jan.	<u>56,59</u>
Summer flounder	8-36	9	1	June-Oct.	T9,T24, T25,T11, T7,T10
Tautog	6-32	15	0	SeptDec. April,June	T2,T14, T26,S13, S6,T12, T5,T8,T4
Threespine stickleback	3-7	6	0	Jan-Mar.	S13,S9, T11,T23, T24
Tidewater silversides	5-6	23	.4	July,Feb., April	S18,S10, T15,T18
Weakfish	5-17	20	0	AugOct.	T13,T23, T25,T18, T14,T26, T6,T15
White mullet	12-14		0	July	57,516
White perch	7-36	58	l	AugFeb. Apr., May	T15,T16, T17,T18 T8,S17, GS17,GS20 GS13
<u>Window pane</u>	15-34	3	0	Aug.,Sept.	T1,T14,T5
Winter flounder	6-32	85	2	July-June	T9,S16,T1 T4,T5,T2, T10,T11, T12,T7, T23,T16, T14,T13, T6,T25
			· · ·		
			-2-		

		<u>/ B</u> Ľl		
FOOD	ITEMS	ΒY	AREA:	FISH

%_

%0 = Percent Occurrence %I = Percent Importance(See Text)

	In	let	;	J	Bay	999 9999 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	(Ireel	k	Mil	.l C1	reek	L	agoc	n
Fish	#	%0	.%Ι	#	%0	%I	#	%0	%I	#	%0	%I	#	%0	%I
Apeltes quadracus				5	1.8	0.9				1	0.5	0.5			-
Ammodytes americanus	23	10,7	7.1	and a later of the second											
Anchoa <u>mitchilli</u>		1	1.8	1	0.4	0.4	5	1.4	0.9					ļ	
Brevoortia <u>tyrannua</u>							1	0.5			a		-	ļ	
Bairdiella 				3	0.4	0.4								 	
Gobiosoma <u>bosci</u> Fundulus sp.				1	0.4		1	0.5	0.5	1 2	0.5 1.1	0.5			
(Etropus microstomus)	2	1.8			anet denen semerater alerta		ملی دور است (میں استی اور ا			~					
Menidia <u>menidia</u>	1	1.8												ļ	
Menidia sp. Prionotus sp				2	0.9	0.4	1	0.5				<u> </u>			-
Leiostomus xanthurus				1	0.4	0.4	7	0.9	0.9		-				
Strongylura Marina		ļ		2	0.9	0.9						ļ		ļ	
Syngnathus 			h 0					 		1	0.5	0.5		<u> </u>	
Urophycis sp. Fish			1.8												
<u>remains</u> Fish eggs	$\frac{17}{5}$	<u>8,9</u>].8	3.6	7 21	3.1	0.9	<u>19</u> 20	<u>8.1</u> 4.3	5.2	19 1756	7.	<u>14.4</u> 1.1			+
Total fish *	45		28.6	22		4.9	35		7.6	[7.1			0

* Fish eggs excluded from number totals

-43

TABLE 4 (Cont'd) FOOD ITEMS BY AREA: ANNELIDA

Fhylum Annelida Inlet Bax Creek Creek Creek Lagoon Class 01400haeta 24 0.4 0.4 135 1.1 1.1 24 0.4 135 1.1 1.1 24 0.4 0.4 135 1.1 1.1 24 0.4 0.4 135 1.1 1.1 1 24 0.4 0.4 135 1.1 1.1 1 24 0.4 0.4 10.5 1												ไว้า่	.11	1		
Class 24 0.4 0.4 135 1.1 1.1 24 Pam. Aphrod- itidae 1 0.4 1 1.1 24 Clymenella torcuata 5 1.3 0.4 1 0.5 Clymenella torcuata 5 1.3 0.4 1 0.5 Clycera amer- icana 2 3.6 14 0.9 0.4 1 0.5 Glycera sp. 1 0.4 1 0.5 1 0.4 1 0.5 Canitellidae 2 0.4 1 0.5 1 1 0.5 Fam. Capitellidae 28 7.1 7.1 14 2.7 1.3 1 1 1 Gaitellidae 28 7.1 7.1 14 2.7 1.3 1 1 1 Fam. Capitellidae 28 7.1 7.1 14 2.7 1.3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Phylum Annelida		Inle	et lat	1.	Bay	Tal r	.12.	Cr	<u>eek</u>		~	ek		Lago	on
Oligochaeta 24 0.4 0.4 135 1.1 1.1 24 Fam. Aphrod- itidae 1 0.4 1 125 1.1 1.1 24 Clymenella torcuata 5 1.3 0.4 1 0.5 1 1 Glycera amer- icana 2 3.6 3.6 14 0.9 0.4 1 0.5 Glycera sp. 1 0.4 1 0.5 1 0.4 1 0.5 Sp. 1 0.4 1 0.5 1 0.4 1 0.5 Sp. 2 0.4 1 0.5 1 0.5 1 1 Glycera sp. 1 0.4 1 0.5 1 1 0.5 Sp. 2 0.4 1 0.5 1 1 1 1 Yam. Lumbrine- reidae 1 0.4 1.0 0.4 1 1 1 Yam. Terebell- idae 1 0.4 0.4 1 1 1 1 Pam. Terebellides 5 0.9 1 1 1 1 1 1		- <u>1</u>	<i>7</i> 00	170 L	- <u>L.</u>	<u>700</u>	701	Й	760	<u>01</u>	<u>1</u>	<u>%0</u>	<u>701</u>	<u>)</u> f	<u>%</u> 0-	701
Fan. Aphrod- itidae 1 0.4 0.4 Clymenella torquata 5 1.3 0.4 1 0.5 Glycera amer- icana 2 3.6 14 0.9 0.4 1 0.5 Glycera sp. 1 0.4 1 0.5 1 0.4 1 0.5 Lumbrineris SP. 2 0.4 1 0.5 1 0.4 1 0.5 Fam. Lumbriner reidae 2 0.4 1 0.5 1 0.4 1 0.5 Fam. Terebell- idae 1 0.4 0.4 1 0.5 1<					24	0.4	0.4				135	1.1	1.1	. 7	24	
itidae 1 0.4 1 0.5 Clymenella 5 1.3 0.4 1 0.5 Clycera amer- icana 2 3.6 14 0.8 1 0.5 Clycera sp. 1 0.4 1 0.5 1 0.4 1 0.5 Lumbrineris 2 0.4 1 0.5 1 0.4 1 0.5 Pam. Lumbrine- reidae 1 0.4 1 0.5 1 1 0.4 1 0.5 Pam. Capitellidae 218 7.1 7.1 14 2.7 1.3 1			en alle et le fenancie de la companya de la company									47 (No. 10 10 10 10 10 10 10 10 10 10 10 10 10		- 		
torquata 5 1.3 0.4 10.5 Clycera amer- icana 2 3.6 3.6 14 0.9 0.4 1 0.5 Clycera sp. 1 0.4 1 0.5 1 0.4 1 0.5 Pam. Lumbrineris 2 0.4 1 0.5 1 0.5 1 Fam. Capitellidae 28 7.1 7.1 14 2.7 1.3 1 0.5 Fam. Capitellidae 28 7.1 7.1 14 2.7 1.3 1 1 0.5 Fam. Terebellides 5 0.9 16 1.4 0.5 1					1	0.4			-	1777-169 - 1916 J. 1890	and a state of the state			1996, 677 - 1894 (Sanah)		alternation of
ioana 2 3.6 3.6 14 0.9 0.4 Glvcera gp. 1 0.4 1 0.5 Lumbrineris 2 0.4 1 0.5 Sp. 2 0.4 1 0.5 Fam. Lumbrine- reidae 1 0.4 1 0.5 Fam. Capitellidae 208 7.1 7.1 14 2.7 1.3 Fam. Terebell- 1 0.4 0.4 1 1 idae 1 0.4 0.4 1 1 Fram. Terebell- 1 0.4 0.4 1 1 idae 5 0.9 1.4 0.5 1 1 Pista palmata 145 6.5 4.9 16 1.4 0.5 Fam. Phyll- 0.4 1 0.4 1 0.5 1 Phyllodcoce 1 0.4 1 0.5 1 1 Microphthalma 1 0.4			2004 - vçili vi kiş 3 190		5	1.3	0.4	1	0.5		Salar (Majuk, Marine			114		a \$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$
Lumbrineris 2 0.4 2 0.4 Fam. Lumbrine- reidae 1 0.5 1 0.5 Fam. Lumbrine- reidae 1 0.4 1 0.5 Fam. Capitellidae 218 7.1 7.1 1.4 2.7 1.3 Fam. Terebell- idae 1 0.4 0.4 1 1 1 rebellides 5 0.9 9 9 1 1 1 Pam. Terebell- idae 1 0.4 0.4 0.5 1 1 1 Pista palmata 14/5 6.5 4.9 16 1.4 0.5 1 1 Pam. Phyll- odocidae 1 0.4 1 0.5 1 1 1 Phyllodoce gn. 8 0.9 1 </td <td></td> <td>2</td> <td>3.6</td> <td>3.6</td> <td>14</td> <td>0.9</td> <td>0.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		2	3.6	3.6	14	0.9	0.4									
SD. 2 0.4 1 0.5 Fam. Lumbrine- reidae 1 0.5 1 0.5 Fam. Capitellidae 218 7.1 7.1 14 2.7 1.3 Fam. Terebell- idae 1 0.4 0.4 0.4 1 1 Fam. Terebellides 5 0.9 1 4 0.5 1 Fam. Polynoidae 4 1.8 1 0.4 1 0.5 1 Fam. Phyll- odocidae 1 0.4 1 0.5 1 1 Phyllodoce sp. 8 0.9 1 1 0.4 1 1 Phyllodoce maculata 6 1.8 0.4 1 1 1 1 Renis vilidae 1 0.4 1 0.5 1 1 1 Nephrys sp. 2 0.5 2 0.5 1 1 1 1 1 0.5 1 1 Nereis spcinea 1 0.4 1 0.5 1 </td <td><u>Glycera</u> sp.</td> <td></td> <td></td> <td></td> <td>1</td> <td>0.4</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>0.5</td> <td></td> <td></td> <td></td> <td></td>	<u>Glycera</u> sp.				1	0.4					1	0.5				
Fam. Lumbrine- reidae 1 0.5 Fam. Capitellidae 218 7.1 1.4 2.7 1.3 Fam. Capitellidae 1 0.4 0.4 1 1.3 Fam. Terebell- idae 1 0.4 0.4 1 1.3 Terebellides 5 0.9 1.5 1.4 0.5 1.5 Pista palmata 145 6.5 4.9 16 1.4 0.5 Fam. Polynoidae 4 1.8 1 0.4 1.4 0.5 Fam. Polynoidae 4 1.8 1 0.4 1.4 0.5 Fam. Phyllodoce 1 0.4 1.4 0.5 1.4 Phyllodoce 6 1.8 0.4 1.4 1.4 1.4 Sabella 1 0.4 1 0.5 1.4 1.5 Nereis spp. 2 0.5 2.2 0.5 2.4 1.5 Nereis spp. 2 1.6 0.5 1.4 1.5 1.4	Lumbrineris															
reidae 1 0.5 Fam. Capitellidae 218 7.1 7.1 1.4 2.7 1.3 1.3 1.4 1.4 1.5			gagit 2 milana dia 4 mila	-	2	0.4	998.20 <u>992</u> .21.4923 Peptemb		alifesti ("e oz, erskenikato»							algegyañt - Tayang Yang
Capitellidae 218 7.1 7.1 1.4 2.7 1.3 Fam. Terebell- idae 1 0.4 0.4 0.4 1 Terebellides 5 0.9 5 1.7 1.4 0.5 1.7 Pista palmata 145 6.5 4.9 16 1.4 0.5 1.4 Fam. Polynoidae 4 1.8 1 0.4 1.4 0.5 1.4 Fam. Phyll- odocidae 1 0.4 1 0.5 1.4 0.5 1.4 Phyllodoce sp. 8 0.9 1 0.4 1.8 1.4 1.4 Fam.Syllidae 1 0.4 1 0.5 1.4 1.4 1.4 Sabella 1 0.4 1 0.5 1.4 1.4 1.4 Nereis sp. 2 0.5 2.2 0.5 1.4 1.4 Nereis sp. 2 2.5 1.8 1.8 0.9 2.4 2.5 1.24 Nereis sp. 2 2.2 3.5 2.4 <				angestjangetes så skutstikke ti den	1966 (Magding Parts)			1	0.5	1240 - 7 342 19 40		andredice's gapes a Ve. 1			r , ar fan fa f - An i n -	****
Fam. Terebell- idae 1 0.4 0.4 0.4 1 Terebellides 5 0.9 5 14 0.5 1 Pista palmata 145 6.5 4.9 16 1.4 0.5 1 Pista palmata 145 6.5 4.9 16 1.4 0.5 1 Fam. Polynoidae 4 1.8 1 0.4 1 0.5 1 Fam. Phyll- odocidae 1 0.4 1 0.4 1 1 1 Phyllodoce 8 0.9 1 1 1 1 1 1 Sabella 1 0.4 1 0.5 1 1 1 Mereis spp. 24 12.5 1.8 8 1.8 0.9 5 2.2 0.5 1 Nereis spp. 24 12.5 1.8 8 1.8 0.5 1 1 Polydora spp. 24 12.5 1.8 1.8 0.5 1 2.4 Nereis succinea 1		21.8	7.1	7.1	14	2.7	1.3				- (g					
Terebellides 5 0.9 Pista palmata 145 6.5 4.9 16 1.4 0.5 Fam. Polynoidae 4 1.8 1 0.4 0.5 0.9 Fam. Phyll- 0.4 0.4 0.5 0.9 0.9 Phyllodoce 8 0.9 0.4 0.4 0.4 0.5 Phyllodoce 6 1.8 0.4 0.4 0.5 0.9 Phyllodoce 6 1.8 0.4 0.4 0.4 0.5 Sabella 1 0.4 1 0.5 0.9 0.9 Nereis sp. 2 0.5 0.9 0.9 0.9 0.9 Nereis sp. 24 12.5 1.8 1.8 0.2 0.9 0.9 5 2.2 0.5 1.24 Nereis sp. 24 12.5 1.8 1.8 0.5 0.5 0.5 1.24 Polydora sp. 24 12.5 1.8 1.8 0.5 0.5 1.24 Scolecolepides <t< td=""><td></td><td></td><td></td><td></td><td>1</td><td>0.4</td><td>0.4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>11001791 (1-0464 6971 X-</td></t<>					1	0.4	0.4									11001791 (1-0464 6971 X-
Pista palmata 145 6.5 4.9 16 1.4 0.5 Fam. Polynoidae 4 1.8 1 0.4 Fam. Phyll- 0.4 Fam. Phyll- 0.4 Phyllodoce 8 0.9 Phyllodoce 6 1.8 0.4 Fam.Syllidae 1 0.4 1 0.5 Sabella 1 0.4 1 0.5 Mereis sp. 24 12.5 1.8 8 1.8 0.9 9.9 5 2.2 0.5 Nereis sp. 24 12.5 1.8 8 1.8 0.9 9.9 5 2.2 0.5 Fam.Spionidae 1 0.4			a bil andra //- \$17 TOPL	and a first figure an inde	844 F. 448 F. 444 - 44	- Aggestington	annan taon a ta Barara	9-0 - 9-04								dedade i skrat Por
Fam. Polynoidae 4 1.8 1 0.4 Fam. Odocidae 1 0.4 1.8 1 0.4 Fam. Phyllodoce 1 0.4 1.8 1.0.4 1.0.4 Phyllodoce 8 0.9 1.0.4 1.0.4 1.0.4 Phyllodoce 6 1.8 0.4 1.0.5 1.0.4 Fam.Syllidae 1 0.4 1.0.5 1.0.5 1.0.4 Sabella microphthalma 1 0.4 1 0.5 1.0.5 Nephrys sp. 2 0.5 2 0.5 2 0.5 2.1 Nereis succinea 1 0.4 1 0.5 1.0.5 1.0.5 Polydora sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1.2.4 Nereis succinea 1 0.4 1 0.5 1.1 2.2 33 2.8 0.5 0.5 1.2.4 Nereis succinea 1 0.4 1 0.5 1.1 2.2 0.	sp.								INTERNA, "A DEGENERAL LUCA	2 340 % sign: parts						
Fam. Polynoidae 4 1.8 1 0.4 1 0.4 Fam. Phyll- 0 1 0.4 1 0.4 1 0.4 Phyllodoce 8 0.9 1 0.4 1 0.5 1 1 Phyllodoce 6 1.8 0.4 1 0.5 1 1 Fam.Syllidae 1 0.4 1 0.5 1 1 1 Sabella 1 0.4 1 0.5 1 1 1 1 1.2 0.5 1 1 Nephryg sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1 2.4 Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1 2.4 Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1 2.4	<u>Pista palmata</u>		alinger and a subscription of the subscription	adagan yang salan salah salah dari sa	145	8.5	4.9	<u> 16</u>	1.4	<u>0.5</u>			-			
odocidae 1 C.4 Phyllodoce sp. 8 0.9 Phyllodoce maculata 6 1.8 0.4 Fam.Svllidae 1 0.4 1 Sabella microphthalma 1 0.4 1 0.5 Nephrys sp. 2 0.5 1 Nereis sp. 24 12.5 1.8 8 1.8 0.9 1 Nereis sp. 2 0.5 1 2.4 1 0.5 1 2.4 Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1 2.4 Nereis spcined 1 0.4 1 0.5 1 2.4 Polydora sp. 8 ⁺ 2.2 33 2.8 0.5 6 0.5 Polydora sp. 5 ⁺ 3.6 22 0.5 1 1 1 Mal danopsis 11 22 0.4 12 0.9 0.5 1 2.4 Polychaete 12 0.		4	1.8		1	0.4		*****	44 10 MR . 1 190 - 101		·········					
Phyllodoce maculata 6 1.8 0.4 1 Fam.Syllidae 1 0.4 1 0.5 1 Sabella microphthalma 1 0.4 1 0.5 1 Nephrys sp. 2 0.5 1 2.4 1 0.5 1 Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1 2.4 Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1 2.4 Nereis succinea 1 0.4 1 0.5 1 2.4 1 0.5 1 2.4 Nereis succinea 1 0.4 1 0.5 1 2.4 1 1 2.4 1					1	C.4	ar by the Linearce of Marcus					() - Filmine in Suraine				Minutury & Jake 1 14
maculata 6 1.8 0.4 Fam.Syllidae 1 0.4 1 0.5 Sabella 1 0.4 1 0.5 Mercis sp. 2 0.5 2 Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1 Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1 2.4 Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1 2.4 Nereis sp. 24 10.4 1 0.5 1 2.4 Nereis sp. 8* 2.2 33 2.8 0.5 6 0.5 Fam. Spionidae 1 0.4 1 0.5 1 2.4 Polydora sp. 8* 2.2 33 2.8 0.5 <t< td=""><td>Phyllodoce sp.</td><td></td><td></td><td></td><td>8</td><td>0.9</td><td></td><td>Tabel Scalars</td><td>ante may na alla super sus a</td><td></td><td>. de</td><td></td><td></td><td></td><td>Just Assessed</td><td>6/2010-010-2010-3</td></t<>	Phyllodoce sp.				8	0.9		Tabel Scalars	ante may na alla super sus a		. de				Just Assessed	6/2010-0 10-2010-3
Sabella 1 0.4 1 0.5 Nephrys sp. 2 0.5 Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 Nereis succinea 1 0.4 1 0.5 <					6	1.8	0.4									
microphthalma 1 0.4 1 0.5	Fam.Syllidae				1	0.4										
Nephrys sp. 2 0.5 Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1 2.4 Nereis succinea 1 0.4 1 0.5 1 2.4 1 Fam. Spionidae 1 0.4 -																
Nereis sp. 24 12.5 1.8 8 1.8 0.9 7 0.9 0.9 5 2.2 0.5 1 2.4 Nereis succinea 1 0.4 1 0.5 1 0.5 1 0.5 Fam. Spionidae 1 0.4 1 0.5 1 0.5 1 Polydora sp. 8 ⁺ 2.2 33 2.8 0.5 6 0.5 Polydora ligni 54 3.6 22 0.5 1 1 1 Scolecolepides 40 0.5 0.5 Maldanopsis 11 22 0.4 12 0.9 0.9 9 9 9 9 9 1 2.4 Polychaete 4+ 7.1 3.6 1.5+ 8.9 3.6 12+ 0.9 0.9 9 9 9 8 1 2.4	microphthalma		Zyden Markel die ein sone		1	0.4			a., 1982.2014 1 17841744	Suday (Jahr) Masa		arraydar a hydrolynydd yw	alar yanayo da ili yana	*******		-
Nereis succinea 1 0.5 Fam.Spionidae 1 0.4 - - Polydora sp. 8 ⁺ 2.2 33 2.8 0.5 6 0.5 Polydora sp. 8 ⁺ 2.2 33 2.8 0.5 6 0.5 Polydora ligni 54 36 22 0.5 - - - Scolecolepides - - - - - - - - Maldanopsis - <td< td=""><td></td><td></td><td>yayar yang yayar ar atan</td><td></td><td></td><td></td><td></td><td></td><td>IN LOSS COM COMPANY</td><td></td><td>AV 11. MEN. 1. (ANY 11.0)</td><td></td><td></td><td>-</td><td></td><td></td></td<>			yayar yang yayar ar atan						IN LOSS COM COMPANY		AV 11. MEN. 1. (ANY 11.0)			-		
Fam. Spionidae 1 0.4 Polydora sp. 8+ 2.2 33 2.8 0.5 6 0.5 Polydora ligni 54 3.6 22 0.5 0.5 0.5 Scolecolepides 0.5 0.5 Maldanopsis 11 22 0.4 12 0.9 0.5 0.5 Polychaete 4+ 7.1 3.6 15+ 8.9 3.6 17+ 6.2 1.4 53+ 1.5 9.8 1 2.4	14	24	12.5	1.8_	8	1.8	0.9	and mar		0.9	.5	22	<u>0.5</u>	<u> </u>	2.4	
Polydora sp. 8 ⁺ 2.2 33 2.8 0.5 6 0.5 Polydora ligni 54 36 22 0.5 6 0.5 6 Scolecolepides .	<u>Nereis succinea</u> Fam. Spionidae				1	0.4		╧	0.5		8477863 A FU FM					9149754
Polydora ligni 54 36 22 0.5 Scolecolepides 40 0.5 0.5 Maldanopsis 40 0.5 0.5 Maldanopsis 40 0.5 0.5 Maldanopsis Polychaete				an a		CONTRACTOR & MA. 2 M		33	2.8	0.5	6	0.5		0000 00 (A 10/2		57455 (BL 1052) BAR 11 4
Scolecolepides .					54	2.399.00 W.S. V.A.999.13		1								
Maldanopsis 11 22 0.4 12 0.9 0.9 Polychaete 4+ 7.1 3.6 1.5+ 8.9 3.6 1.4 53+ 1.5.3 9.8 1 2.4	Scolecolepides					r .	-	ŀ		(.)	40	0.5	0.5			1. 200 - 200 - 200
Polychaete remains 4+ 7.1 3.6 15+ 89 3.6 17+ 6.2 1.4 53+ 15.3 9.8 1 2.4	Maldanopsis				11	22	0.4	12	0.9	0.9						
Total poly- chaete 252 161 327 134 13 4.3 240 12.0 3 0	Polychaete remains	4-+	7.1	3.6			T	T		T	T	15.3	9 . 8	1	2.4	a 2 (b) 250
	Total poly- chaete	252		161	327	7	13.4	113		4.3	240		12.0	3		0

()

TABLE 4 FOOD TTERS BY AREA: AMPHIPODA (Cont'd)

Order Amphipoda	#	Inle	t % T	14	Bay	%т	"C	ree	k %I	Cr Cr #	11 'eek %0	۶ %T	Įµa ₩	goon	%I
Ampelisca sp	1	1.8		101	4.5	0.9	œ	133	8.5		1.6				•
Ampelisca abdita				57	4.9	1.3		4.7	2.8						
Ampelisca vadorum	and the second		0	115	7.1	<u>3.1</u> 0.4	36	14	0.9		in factor , a factor (data		Ť		i Ali Anger angelande de se
Ampelisca verilli			de la contracta	7	1.3	0.4	2.5		ali can la canada a sa			1	1	T	alan ya kata sa ya kata sa ya ka
(Batea		***********		<u> </u>		and the second			N				1		and the second secon
catharinensis)				4	0.4					Į				1	
Casco bigelowi	1	1.8					9	0.5					-1	1	1997 - 7-8-199 - 9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9
				3	0.4		2	0.5							t minya, tarapakar Altera
Cerapus tubularis	2	18		9	2.7		$\frac{\tilde{2}}{2}$	0.9		208	3,3	1.6			
Corophium sp.	<u> </u>	<u> </u>	al ficanty is the first of	1 7	2.01		<u> </u>	<u> </u>	inter velar saradja Vela Kena	<u></u>	<u></u>				ny sy hanne or Garthin
Corophium				1.	0 /1.	0 /1	2	05						1	
(tuberculatum)	36	1.8	-	21	0.7	0.4	20	28	0 5	26	27	7 7			MARCENCE AND
Cymadusa compta	36	<u> </u>	10.000 A 10.000 A 10.000	K-L			12ž	<u> </u>	<u> </u>	20	<u>~ € (</u>				an shakara ta saka shak
Erichthonius							2	0.9							
<u>brasiliensis</u>	-						12	<u>v•</u> 2							NAN YAR UN PRODUKT
Erichthonius	1						1	O E	05					1	
rubricornis			Angala make and Robinson				27	$\frac{0.2}{0.5}$	0.5 0.5	Ē	0.5		-	2.4	9061487 OB404- ⁴⁰
Erichthonius sp.	20	3.6			Constantial Property lies	ang ang mang mang mang mang mang mang ma	<u>F7</u>	0.2	0.7	2		0.5	6	<u></u>	werter, dector with an
<u>Gammarus faciatus</u>	ļ						<u> </u>		1 0/2 00 10 10 10 10 10 10 10	22	5.1	0.2			
Gammarus				I											
mucronatus				4	0.4	0.4	ļ								
Gammarus sp.	ALCONOMIC STATE		in constant on the state	2	0.9	0.9	12_	1.4	0.5		1.00.00.000				fective and starting to a
Lembos sp.	28	1.8				C-Manufacture and and	_				-				a trapp, kain we dera make
Leprocheirus							1								
pinguis							L]	0.5				
Leptocheirus	Γ				ſ										
plumulosus	1	1.8								303	6.6	2.7			
Leptocheirus sp.	A DATE OF THE PARTY OF	a serie insie vers		ſ	Γ					2	0.5				
Fam.			40-11 c (10) f 4-17-75-80	T			1]							
Lysianassidae]					1		1		2	1.1			CW-200 B Dates and a	
ElasmoPus		1	444,517,008477		and the state of the second second		T	Τ	Γ						
laevis	33	3.6	1.8	h.6	1.3	0.9	3	0.9		7	1.1				a mana tara daramén
Fam. Hyalidae	f~	<u> </u>		1	0.4		T		1						
	 			tî -	0.4		+				t			- THE BALL OF BUILD AND A	1.1.0 2 445 148 400 400 1
Marinogammarus sp.	7	7.1	1.4500 F 294.45. 194.	13	0.9			+		2	0.5	1			
Microdeutopus sp.	<u> </u>	1-6-		12-	1 0. 2	+		-	-	1 <u> </u>	1	1		a a the second secon	
Microdeutopus		1		1 7	a.4	1			1						
(gryllotalpa)		+		┝─┶	14	-		+			t			a dere i værste ganger fan	
Microprotopus	1]	1	14										
ranei	ļ	<u> </u>	-		<u> </u>	0.9				1	0.5			and a second	10 and to be a second
<u>Orchestia platensis</u>				+		+				1	0.5		a gardaul (1984		
<u>Monoculodes sp.</u>			<u> </u>						+	┨──╧╌	10.				
<u>Melita sp.</u>		ļ		11	0.4				+	<u> </u>			ana		ergegang Weller Matters
<u>Maera danae</u>	2	3.6		3_	<u>p.9</u>					<u> </u>	<u> </u>				
Fam. Photidae	3	1.8					-	-	. <u>_</u>	3	<u>þ. 5</u>	0.5			
Fam. Stenothoidae			Į	<u> </u>		<u> </u>	_	-		ļ	ļ				
Parametopella cypis					L		1	0.5		L		L			
Stenothoe minuta				1	0.4		_			14	0.5				
Fam. Talitridae				2	b.4	0.4					ļ				
Unciola sp.				3	b.4		3	<u>þ. 5</u>	0.5		1				STREAM CONTRACTOR
S.O.Gammaridea	a pzładiowa	T		T		T	T	1		1	1				
remains	19	10.7	1	109	8.0	2.2	146	- 10.0	3.3	35	6.6	1.1	96	16.7	11.9
Order Caprellidea	2	1.8	1	15	1.3	1	T	T		4		0.5	[
Gammarus (diaberi)	†~~~~		1	1	1	1	1	T	T	Contraction in the second second		0.5	Γ	1	T
Corophium(Lacustre)		+	-	+	+	1	+		-		D. 5		1		1
COLODITTAW (macasare)			+	1,.	-		-t	1	+	†=====	-	-	†	<u>†</u>	T
Total Amphipoda	55		8.1	4-84	· ·	12.9	10	2	180	667	7	8.7	98	22	11.9

TABLE 4 Cont.d. - FOOD ITEMS BY AREA: ISOPODA & TANAIDACEA

rders isopoda Tanaidacea		Inle	t		Bay		C	reek	ς.	Cre	ill eek		L	agoo	n
	#	%0	%I	#	%0	%I	#	%0	% I	#	%0	%I	#	%0	% I
Cyathura												1. 1.			
polita				24	4.9		5	2.4	0.5	31	6.6	4.4			
Cirolana sp.	NAME OF BRIDE DAY					-		-]	0.5	en elkar andersprach			
Edotea			1		1										
triloba				6	1.3	and the second	3	1.4		11	1.1		e 494,17349 e 44	-	
Erichsonella			Į	1											
SD				2	0.4						-	and the state of the	100 100 17 1 0 17 1		-
Erichsonella					·										
attenuata							3	0.5		3	1.1	a:-#	-		-
Erichsonella				1											1
filiformis				7	0.4	0.4	$\frac{1}{1}$	0.5	0.5				treating to vitration		
Idotea sp.	[Ī		1	0.4		1	0.5		1	0.5	cm. 4.253/67-219046-8	and the second secon		-
Idotea		1												1	
balthica	15	8.9		17	2.7		18	2.4	0.5	38	2.2	1.6		<u></u>	
Idotea				1										1	
phosphorea	ŀ		ł	6	1.3	0.4	1	0.5							
Idotea	<u> </u>	1		1				Γ							
(metallica)	1		ł	1	1	1	1	0.5						1	1
Lepotochelia	1	1		1	1		T	1	<u> </u>						
savignyi		1								1	0.5			I	
<u>Panais</u>		1	<u> </u>		1		1	1	1					1	
cavolini		1					11	0.5		72	2.2				
Isopoda	1			1						T				T	1
remains				3	1.3					Į.	• •				
	†	1	1	1-2				1	1	1			[1	Τ
	15			66		0.9	34	1	1.4	(158		6.0	0		0
	[1				1		1	1				
				1			[1							
	1	1	ł				1	1	1	1		1			1
	1	1		1		1	1		1	1			1 .		
		1		1	1	1	1	1							1
	1	1	1		1	1	1	1		1]]	1		1
	ł	1			1		1	1		1			1		1
											1 .		1		
		1			1		1	1		1					
		1		1	1				1				1		
			1	1			1		1	1		1	1	1	
				1	1	1	1		1	}			1		
*			1	1	1	1	1		1		1	1]		1
	1			1		1	1		1			ł	ł	1	
	1	1	1	1		1	1				Ì	1	[1	
				1		1	1		1	1	1	1	1	1	
	1			1	1		1		1	1			1		
			1	1	1					1		1	1	1	
				1	1	1	1		1		1	1	1		
				1	1				1	1	1	1			
			1	1	1	1	1		1	1		1	1	1	
			1	1	1			1	1	1		1			1
				ł		1	1		1			1			
	1			1					1		1	1			
	l		1	1		he			1	1			1		
	1			1	1	46-	1				1	1	1		
	1	1	ľ	1	1	1	1	1	1	1	1		1		
						1	5								

 \bigcirc

TABLE 4 (Cont'd.) FOOD ITEMS BY AREA: MOLLUSKA

	ı -	[nlet	-		Bav		1	Ċr	<u>eek</u>	1		Mill reek	r	Та	<u>goon</u>
<u>Molluska</u>		<u>%0</u>	[%I	<u></u> #	<u>Bay</u> %0	<u>%I</u>	#	<u>%0</u>	<u>%1</u>		<u>%0</u>	<u>%</u> [<u>i</u>	<u>%0</u>	<u>%1</u>
Bittium <u>alternatum</u>	 	1.8		4	0.9										
Bittium sp.		- - .Q.		1	0.4		1	0.5							
<u>Crepidula sp.</u>		47-1-0- 4 4-5-444-47-		11	0.9		2	0.9	0.5						
Gemma gemma							1	0.5		86706 / 7 BR					CO21272442 Th. 740942.64.744 4.1
Haminoea <u>solitaria</u>	<u>1.</u>	1.8					2	0.5	4. 					P-1	
Laevicardium 				<u> </u>	0.4										-
Bivalve siphons	6	23.6	1.8	<u>256</u>	9.8	2.2	47	2.4	1.4	1	0.5				andre and a second second
Mitrella _lunata							1	0.5		1	0.5				1843-1940-194 - 19 ⁴ - 19
Modiolus demissus		t/ mails the part of the			hanalaya ayada wa ayada wa ay	-									
<u>Mya arenaria</u>										1	0.5	0.5			<u></u>
Mytilus edulis				6	0.4	-	1_1_	0.5		 					g.54% (eye, y'ny 5-17 Feddar).
Nassarius sp.		Restauro (Bridge, Tr. , J 198					2	0.9	0.5	1	<u>0, 5</u>				
Petricola pholadiformis				7	0.4	0.4		. 				· · · · · · · · · · · · · · · · · · ·			afterder galande ^{best} ier gewanne
Fam. <u>tellinidae</u>	1	1.8													
Tagelus divisus	1	1.8													
Fam. Veneridae				2	0.4		20	50.9	0.5						
Bivalve <u>remains</u>				3	0.9			- 0. !	5	4	1.1	0.5	<u></u>	ļ	
Shell fragments						nin cargo pie statu									
Littorina sp.			-				3	0.	5						
Total Molluska	10		1.8	29	ž.	2.7	6	5	2.8	8		1.1	0		0
							ŗ								
						-47-									

 \bigcirc

TABLE 4 : food items by area: Decapoda (Cont'd)

Caridean	7									I	Mil				
shrimp	II	nlet	5	E	Bay		Cr	reek			Cree		La	agoc	n
·	#	%0	% I.	#	%0	%I	#	%0	%I	#	%0	%I	#	%0	%I
Crangon septemspincsa	86				7.6	3.6	77	13.3	10.0	36	4.4	2.2	8	2.4	2.4
Palaemonetes vulgaris	56	36	1.8	20	2.7	1.3	74	3.3	2.8	36	1.6	0.5			
Palaemonetes pugio	1	1.8	1.8	1	0.4	0.4	1	0.5							and the second second
Palaeomonetes (intermedius)							90 - 20 - 10 - 10 - 10 - 10 - 10 - 10 - 1			3	0.5				na zada indenti and
Palaemonetes Caridean	4	3.6		3_	1.3	0.4	2	0.9				, (* 30. 1900)			
<u>remains</u>	11	1.8		<u>]</u>	0.4	0.4	1	0.5	0.5		-danga di keci di suna kas				u, factor a light 2000 19 a cel
Total Caridea	159		17.9	83		6.3	<u>155</u>		<u>133</u>	75	e dela de la cala de cala de la c	2.7	8		2.4
Brachyuran Ovalipes															
<u>ocellatus</u> Brachyuran	5	3.6													
<u>remains</u> Callinectes	<u> </u>	1,8		2	0.9	0.4	<u> </u>		<u>©.5</u>		<u>1,1</u>	٦ 4			
<u>sapidus</u> Fam.	2	3.6					4	I	0.9		3.3				
<u>Xanthidae</u> Eurypanopeus	6	3.6	1.8			1.0	3	0.9			1.6	╽╷╷╸┙			
<u>depressus</u> Neopanope		1.8			1.3	0.9	5	0 0	0.9			1.6			
<u>texanna sayi</u> Rhithropanope harrisii	ls					0.4	3		0.5			0.5			
Total			5.4		2	3.6	16		2.8			4.9	0		0
Brachyuran	15		5.4	07		5.0	TO								
						-4	8-								

Induct Say Creak Creak Creak Largon $\frac{2}{6}$ $\frac{2}{6}$ $\frac{2}{6}$ $\frac{2}{7}$ $\frac{2}{6}$ $\frac{2}{16}$ $\frac{2}{12}$ $\frac{2}{12$	let $\exists sy$ $\exists sy$ $cree$ zo zi zo zi zi zi $s, 2$ $2, 3$ $14, 7$ 1250 zi zi $s, 2$ $2, 3$ $14, 7$ 1250 zi zi $s, 2$ $2, 1$ 3594 $22, 8$ $14, 7$ 1250 1 3594 $22, 8$ $14, 7$ 1250 333 $2, 1$ $0, 4$ $0, 4$ 5790 1 1 $0, 4$ $0, 4$ 5790 21 $22, 2$ $0, 4$ 11 21 $2, 2$ $0, 4$ 11 21 $2, 2$ $0, 4$ 11 $2, 12$ $2, 2$ $0, 4$ $22, 4$ $5, 4$ 3.6 3.1 2.2 $2, 4$ 3.6 $2, 4$ 27 $5, 4$ 3.6 3.1 2.2 $11, 4, 3$ 11112 $42, 0$ 8963 $11, 4, 2$ 11112 $142, 0$ 8963	ł.												-			
# $#$ <td>$\#$ χ_0 χ_1 χ_0 χ_1 χ_2 χ_1 χ_2 2037 8.9 7.1 3594 22.8 14.7 1250 22037 5.4 7.8 3593 170 5.4 8156 22037 5.4 7.8 3593 170 5.4 8155 1 1 0.4 0.4 0.4 5790 21 21 0.4 0.4 22 21 22 0.4 11 22 0.4 11 47 1 18 2 0.4 11 21 22 0.4 11 47 1 1 1 2 2 2 1 1 2 0.4 47 1 1 1 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 2 2 2 2 1 1 2 2</td> <td></td> <td>Inle</td> <td>در</td> <td></td> <td>∋ay</td> <td></td> <td></td> <td>Cre</td> <td>ek</td> <td></td> <td>A1 Cre</td> <td>11 ek</td> <td></td> <td>Lago</td> <td>uo u</td> <td></td>	$\#$ χ_0 χ_1 χ_0 χ_1 χ_2 χ_1 χ_2 2037 8.9 7.1 3594 22.8 14.7 1250 22037 5.4 7.8 3593 170 5.4 8156 22037 5.4 7.8 3593 170 5.4 8155 1 1 0.4 0.4 0.4 5790 21 21 0.4 0.4 22 21 22 0.4 11 22 0.4 11 47 1 18 2 0.4 11 21 22 0.4 11 47 1 1 1 2 2 2 1 1 2 0.4 47 1 1 1 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 2 2 2 2 1 1 2 2		Inle	در		∋ay			Cre	ek		A1 Cre	11 ek		Lago	uo u	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	2037 8.2 7.1 3594 22.8 14.7 1250 1 223 5.8 17.0 5.8 815 1 1250 5.8 127 5.8 815 1 1250 0.4 0.4 5790 222 1 1322 2.7 0.4 22 19 1 1822 2.7 0.4 21 2.7 19 1 1822 2.7 0.4 11 22 0.4 11 1 18 7.1 1822 0.4 11 47 47 1 18 7.1 1.8 1127 6.7 3.1 22 18 7.1 128 0.6 4.7 27 27 159 5.4 3.6 3.12 29 24 27 159 5.4 3.6 5.4 3.6 24 27 27 159 1269 5.4 <		₩		ξT	₩.	0%	I X		<u>5</u> 0	<u>ू</u> र	₽	0%	म्ू	#	0 12	žI.
(a) (a) <t< td=""><td>= 2203 5.4 1.8 3693 170 5.8 815 $=$ $=$</td><td></td><td>2097</td><td></td><td>7.1</td><td>3594</td><td></td><td>14.7</td><td>1250</td><td>18,0</td><td></td><td>33253</td><td>35.0</td><td>24.6</td><td>1079</td><td>28.6</td><td>14.</td></t<>	= 2203 5.4 1.8 3693 170 5.8 815 $=$		2097		7.1	3594		14.7	1250	18,0		33253	35.0	24.6	1079	28.6	14.
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ß	2203		8.1	3083		5.8	518	7.6		920	8 5 T	2.2	55	19. O	9.5
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$							-)	Z	1.1				Č
Matrix List 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					T T		- 1	5790	15.6	1	2065	6 . 6		657	14.3	2.
1.622 2.7 2.7 2.7 2.7 2.4 0.5 0.5 1.732 1.6 1.11 0.6 0.5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	e e						1	77	+7. *		<u>51</u>	合いた			2.4	′ou
$\frac{21}{47}$ $\frac{2.2}{6}$ $\frac{2.4}{47}$ $\frac{2.2}{6}$ $\frac{2.4}{6}$ <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td></td> <td></td> <td></td> <td></td> <td>1822 1822</td> <td></td> <td>2.2</td> <td>19 19</td> <td>0.5</td> <td></td> <td>1732</td> <td>1.6</td> <td></td> <td></td> <td></td> <td>a</td>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					1822 1822		2.2	19 19	0.5		1732	1.6				a
$\frac{42}{21} \frac{42}{5.7} \frac{4}{0.6} \frac{4}{5.7} \frac{6}{0.5} \frac{4}{2.4} \frac{1}{1.6} \frac{1}{6} \frac{6}{2.4} \frac{1}{1.6} \frac{1}{6} \frac{6}{2.2} \frac{1}{2.6} \frac{1}{2.$	ψ_2 ψ_2 ψ_2 ψ_2 ψ_2 1 1 1.8 2 0.4 ψ_7 1 1.8 30 3.1 0.9 24 18 7.1 1.8 1127 6.7 3.1 22 18 7.1 1.8 1127 6.7 3.1 22 159 5.4 3.6 512 192 14.3 517 159 5.4 3.6 512 192 14.3 517 4478 1.4,3 11112 42.0 8963					12	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.4		0.0		2	2.7				e
χ_1 χ_2 <t< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td></td><td></td><td></td><td></td><td>42</td><td>4.0</td><td>0 · 4</td><td>0</td><td>2.4</td><td></td><td>4</td><td>0</td><td></td><td></td><td></td><td>√ie</td></t<>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					42	4.0	0 · 4	0	2.4		4	0				√ie
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$								47	0.5							wi
1 1 1 1 2 0.4 47 0.5 3.1 0.6 2.4 1.9 6 2.4 1.9 6 2.4 1.9 6 2.4 1.9 6 2.4 1.9 6 2.4 1.9 6 2.4 1.9 6 2.4 1.9 6 2.4 1.9 6 2.4 1.9 6 2.4 1.9 6 2.4 1.9 6 2.4 1.9 6 2.4 1.4 6 2.4 1.4 6 2.4 1.4 6 2.4 1.4 6 2.4 1.4 6 2.4 1.4 6 2.4 1.4 6 5.4 4.1 6 5.4 7.7 3 9.5 $3.9.6$ 9.5 4.4 1.4 6 2.4 8.1 1.4 6 5.4 8.1 1.4 6 5.4 8.1 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					232	0. M		385	5.7	6 0					1	ng
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					2	↑ • 0		2行	6 0	ر. ر.				9		an A
18 7.1 1.8 1127 $(.7)$ 3.1 22 2.8 0.5 1.5 1.1 1.6 1.2 $(.7)$ 3.1 22 2.8 0.5 1.1 1.6 <	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		1	1 _		30	3.1	6.0	24	1.9		3	1		501	ω	-⇒ ven
xi1 12 0.9 27 0.9 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	x_1 12 0.9 27 x_1 159 5.4 3.6 512 14.3 517 159 5.4 3.6 512 14.3 54 $\mu 478$ 14.3 11.12 $\mu 2.0$ 8963		18	7.1	•	1127	6.7		22	2.8							ive
mi 27 0.6 1 0.5 1.4 0.5 1.4 0.5 1.4 0.5 1.4 0.5 1.4 0.5 1.4 0.5 1.4 0.5 0	xi 27 xi 159 5.4 3.6 512 192 14.3 517 159 5.4 3.6 512 192 14.3 54 1 0.4 0.4 24 24 4478 14.3 11112 42.0 3963					12	6.0										
x_1 169 5.4 3.6 512 124 2.6 14.8 7.7 3.6 <	wi 159 5.4 3.6 512 192 14.3 517 1 0.4 0.4 24 1 0.4 24 1 14,0 8963								27	0.0							ру
150 5.4 3.6 512 1922 14.2 632 14.2 39.5 <td< td=""><td>159 5.4 3.6 512 192 14.3 54 1 0.4 1 0.4 24 4478 14.3 11112 42.0 8963</td><td>owi</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>r-1</td><td>0.5</td><td></td><td>-1</td><td>÷.</td><td>fro</td></td<>	159 5.4 3.6 512 192 14.3 54 1 0.4 1 0.4 24 4478 14.3 11112 42.0 8963	owi										r-1	0.5		-1	÷.	fro
the New Jørsey State Library 0.4 2.0 <	42,0 3963 42,0 3963			5.4	3.61						2.4	682	14. S	2	39	\mathbf{v}	1 4
New Jørsey State Library 66 66 1228 806 80	142.0 42.0						•				7°-	6	2.7	0			the
			8444		14.3	·		42.0	8963		30.8	38721		39 S	3339		
																	ey Sta
																	ate I
																	ibra
) iry

TABLE 4 FOOD IT.S. I ARE: ZOOPL MILON (Cont'd)

F

TABLE 4 FOOD ITEMS BY AREA: INSECTA (Cont'd.)

Insecta		nle	et		Bay		Cr	eek		0	Mil Cree	k	La	ago	on
	#	%0	%I	#	%0	%I	#	%0	%I	ii	%0	%Ī	#	%0	%I
Order			1		1										
Coleoptera							11	0.5	an the state of the state				ta growteta de		na desentadores de
Order Diptera					}										
(adult)				63	3.1	0.4									
Order Dipteran		Γ		Ī											
larva				1							6	1.1		an Antophysical 1	ter all out of the state
Non-dip-	erres.r.abd.		NG K (K 1) (SPL 707)-11	1			T								
teran larva	1		1				11	0.5		1	0.5				
Order Acari		1	10 7 10 10 10 10 10 10 10 10 10 10 10 10 10				1	are a subscription of the		12	1.1				
Adult insect						Contraction of the second second					uiterenis ve suc	A LOB LLOUGH BAR	01.960.7.960.00.4	and the second second	
remains		I .			{	[11	0.5				
Vinged ants	4	1 8	1.8	2	0.9	1	25	0.5	0.5	-		**************************************			1.000 I.S. 10 A. 10
		f y	1.0	1~~~	10.2		$+ \approx -$					L' plogra surpanina in			
Chironimidae		1	[1	1	Î	1			2	1.1	1	}		
pupae		+	-		+	<u> </u>	-			┾╧┈╸	╞╧┓┚╧				a ga na riyan Malalayin
Fam. Cicadell-		ľ		1	1	1	1	0.5		1		 			
idae						+	┼───	10.2	and the second second	+	┢╼╼╼				CHARTENE SH
Order Plec-				1	1]				1	O E	0.5			
optera	<u> </u>			<u> </u>	•		+			╉╧──	10.0				
T							1			1					
Potal	1.	1		11-		1.	00		0 "	20		0.5	0	 '	0
Insecta	4	1	1.8	65	1	0.4	28	1	0.5	37	1	0.5			
					1										
	1	1	1	1	1					1	1			1	
]	1		1							1	1			
	1	1	1	i		1	1			1		1	[l
· · ·	1	1	1 1	1	1	1				1		1	1		l
	1	1	1	1 .		1					1	1			1
	1	1	1	1		1		1		1	1	1			1
		1	1	1	1	1					1	l			ł
		ł	1			1				1	1		1	1	1
						1	1			1	1				
	1														
							1					1	1		1
										1				l	1
					1	1	1	1		ľ		1	1	1	{
				1	ł	ł	1				1	1	1		{
			1	1	1		1	1				1	1		1
	1	1			1	1	1	1		1		1	1		
	1			1	1	1	1			1	1	1	1	1	
	1	1		1	1	1	1			1		1	1		1
	1	1	1			1						1			1
	1				1	1					1	1			1
			· 1		1		1					1	1		
	1	1	1	1	1	1		1		1					1
	1									1		1			1
				1		1				1				1	
	1					1							1		
	1		1							1		1		1	1
	1		1									1	1	1	1
	1					1	1						1		
	1						ł				1	1	1	1	1
	1						:d_						1	1	
	1		1	1	1	1 -5	γ -	1		1		1	ł		1

TABLE 4 FOOD ITEMS BY AREA: OTHER (Cont.d.)

# #0 #1 # #0 #1 # #0 #1 # #0 #1 # #0 #1 Limulus Dolyphemous 3 1.8 Pagurus 1.8 0.4 Longicarpus 1.8 0.4 Molgula 1.8 0.4 Molgula 1.8 0.4 Brozza 0.9 0.4 Class 3.6 3.6 0.4 Brozza 0.9 2.4 2.2 Hydroza 0.4 0.5 0.5 Cirrinedia 0.4 0.5 0.5 Class 0.4 0.5 0.5 Class 0.4 0.5 0.5 Class 0.4 0.5 0.5 Class 0.4 5.2 0.9 3.8 9.5 Class 0.4 5.2 0.9 3.8 9.5 2.4 Reddnart 10.7 1.8 8.2 0.9 2.2 0.5 2.2	Other	I	nle	t	I	Bay	*******	Cr	eek			Mill reek		L	agoo	n
Limulus 3 1.8 1.8 1.8 Pagurus 1.8 1.0.4 1.1.8 1.1.8 Molgula 1.1.8 1.0.4 1.1.8 1.1.8 Class 1.0.4 1.1.8 1.1.8 1.1.8 Banhattensis 1.0.4 1.0.4 1.1.8 1.1.8 Class 1.0.4 1.0.4 1.1.8 1.1.8 Bryozca 0.9 1.1.8 1.1.8 1.1.8 Scitripadia 0.4 0.5 0.5 1.1.8 Castoda 1.1.8 1.25 0.9 1.1.8 Scilinent 1.0.71.8 86.70.0.4 371 11.8 4802.2 13.9.5 Corder 1.1.8 1.1.		;''	760	%I	#	0%0	% I	#	%0	%I	#	%0	%I	#	%0	%T
polyphemous 3 1.8	Timulus					<u></u>	· <u>/ · · · · · · · · · · · · · · · · · ·</u>		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		ļ				1.
Pagurus 1 1.8 1.04 Molgula 1 0.4 2.4 2.2 Phylum Brozoca 3.6 3.6 0.4 2.4 2.2 Phylum Brozoca 3.6 0.9 0.5 0.5 S. Class 0.4 0.5 0.5 0.5 Class 0.4 0.5 0.5 0.5 Class 0.4 0.5 0.5 0.5 Class Costoda 1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		3	1.8													
lonzicarpus 1 1.8 Molgula 1 0.4 Class 1.0.4 Hydrozoa 3.6 3.6 0.4 2.4 2.2 Phylum Bryozoa 0.9 Scirribedia 0.4 0.5 Class Castoda 1 0.5 Class Castoda 1 0.5 Class Castoda 1 0.5 Class 1.0.7 8.6 Class 1.0.5 Class 1.0.7				and a state of the second s							+					*********
Molgula manhattensis 1 0.4 2.4 2.2 Hydrozoca 3.6 3.6 0.4 2.4 2.2 Fhylum Bryozoca 0.9 0.5 2.2 S. Class Cirripadia 0.4 0.5 0.5 Class Castoda 10.2 1.25 0.9 0.5 Class Castoda 0.4 5.2 0.9 3.5 Class Nematoca 642 12.5 1.8 86 0.7 0.4 871 11.8 10.2 10.5 Cotac Actiniaria 1.8 5.3 0.4 5.2 0.9 3.0 9.5 2.4 Terrestrial Sediment 10.7 1.8 5.3 0.4 0.9 2.2 0.5 16.2 Algae (ther) 1.8 2.2 0.9 2.8 9.3 2.7 26.2 2.4 <td></td> <td>1</td> <td>1.8</td> <td></td>		1	1.8													
Class 3.6 3.6 0.4 2.4 2.2 Phylum Brvozoa 0.9 2.4 2.2 S. Class 0.4 0.5 0.5 0.5 Class 0.4 0.5 0.5 0.5 Class Nematod G222.51.8 85 6.7 0.4 871 11.8 4802.2 13 9.5 Class Nematod G222.51.8 85 6.7 0.4 871 11.8 4802.2 13 9.5 Corder Actiniaria 1.8 5.2 0.9 3.8 9.5 2.4 Terrestrial 1.8 2.2 0.9 2.8 9.3 2.7 26.2 2.4 Pibrous plant 5.4 1.8 2.2 0.9 2.2 0.5 16.7 Fibrous plant 0.9 2.2 0.5 2.2 4.2 2.4 13.1 0.5 <td< td=""><td>Molgula</td><td></td><td></td><td>Carlos Processo</td><td></td><td></td><td></td><td></td><td> </td><td></td><td>1</td><td>1072310371937793780C0</td><td>and the second second second</td><td><u>, , , , , , , , , , , , , , , , , , , </u></td><td></td><td></td></td<>	Molgula			Carlos Processo							1	1072310371937793780C0	and the second second second	<u>, , , , , , , , , , , , , , , , , , , </u>		
Class 3.6 3.6 0.4 2.4 2.2 Phylum Brvozoa 0.9 2.4 2.2 S. Class 0.4 0.5 0.5 0.5 Class 0.4 0.5 0.5 0.5 Class Nematod G222.51.8 85 6.7 0.4 871 11.8 4802.2 13 9.5 Class Nematod G222.51.8 85 6.7 0.4 871 11.8 4802.2 13 9.5 Corder Actiniaria 1.8 5.2 0.9 3.8 9.5 2.4 Terrestrial 1.8 2.2 0.9 2.8 9.3 2.7 26.2 2.4 Pibrous plant 5.4 1.8 2.2 0.9 2.2 0.5 16.7 Fibrous plant 0.9 2.2 0.5 2.2 4.2 2.4 13.1 0.5 <td< td=""><td><u>manhattensis</u></td><td></td><td></td><td></td><td>]</td><td>0.4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	<u>manhattensis</u>]	0.4										
Phylum 0.9 0.9 0.5 0.5 Cirrinedia 0.4 0.5 0.5 Class 0.4 125 0.9 0.5 0.5 Class 0.5 0.4 125 0.9 0.5 0.5 Class Castoda 1 0.5 0.5 0.5 0.5 Class Nematodx264212.51.8 86 5.7 0.4 371 118 4802.2 13 9.5 Actiniaria 1.8 5.2 0.9 3.0 9.5 2.4 Terrestrial seed pods 2 0.5 16 2.4 13.0 9.5 2.4 Han diatoms 5.4 1.8 2.2 0.9 2.8 9.3 2.7 26.2 2.4 Fibrous plant - 0.9 - 4.2 2.4 13.1 0.5 2.4 Unidentified	Class										Τ		a support that the second s			NURONA KANGLIN
Brvozoa 0.9 0.9 0.5 <			3.6			3.6	0.4		2.4			2.2				
S. Class Cirripedia Cirripedia Class Castoda Class Castoda Class Nematods 642 12.51.8 86 6.7 0.4 871 11.8 4802.2 13 9.5 Order Actiniaria 1 1.8 Sediment 10.71.8 6.3 0.4 5.2 0.9 3.8 9.5 2.4 Terrestrial seed pode Algae (other) than diatoms) 5.4 1.8 2.2 0.9 2.8 9.3 2.7 26.2 21.4 Diatoms 0.4 0.9 2.2 0.5 16.7 Fibrous plant remains 8.9 1.8 0.9 4.2 2.4 13.1 0.5 9.5 2.4 Unidentified gggs Unidentified remains 5.4 1.8 0.9 0.9 2.8 1.9 2.7 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 1000 5.2 400 4.9 29 31.0 TOTALS FOR TABLES THROUGH Sample size 56 217 201 1.72 3.9 No empty stomachs 2 13 18 11 6											1	[
Cirrinedia 0.4 0.5 0.5 (Euglenoid) 125 0.9 0.5 0.5 Class Nematode dd212,51.8 86 6.7 0.4 871 11.8 4802.2 13 9.5 Actiniaria 1 1.8 5.2 0.9 3.8 9.5 2.4 Sediment 10.7 1.8 6.3 0.4 5.2 0.9 3.8 9.5 2.4 Terrestrial 2 0.5 16 2.4 41gae (other) 14.8 2.2 0.9 2.8 9.3 2.7 26.2 21.4 Diatoms 5.4 1.8 2.2 0.9 2.2 0.5 16 2 Diatoms 5.4 1.8 2.2 0.9 2.2 0.5 16.2 Unidentified 0.4 0.9 2.2 0.5 16.2 Unidentified 2.4 1.8 0.9 - 2.6<					ļ	0.9										-
(Euglenoid) 125 0.9 Class 1 0.5 Class NematockdW212.51.8 86 6.7 0.4 871 11.8 4802.2 13 9.5 Order Actiniaria 1.8 10.7 1.8 5.3 0.4 5.2 0.9 3.8 9.5 2.4 Terrestrial seed pods 2 0.5 16 2.4 16 2.4 Algae (other) 5.4 1.8 2.2 0.9 2.8 9.3 2.7 26.2 2.14 Pibrous plant 5.4 1.8 2.2 0.9 2.2 0.5 16.7 remains 8.9 1.8 0.9 2.4 13.1 0.5 2.4 - 13.1 0.5 2.4 - 13.1 0.5 2.4 - 13.1 <			}								1					
Class Nematoda 242251.8 86 6.7 0.4 871 118 4802.2 13 9.5 Class Nematoda 242251.8 86 6.7 0.4 871 118 4802.2 13 9.5 Order Actiniaria 1 1.8 Sediment 10271.8 6.3 0.4 5.2 0.9 3.8 9.5 2.4 Terrestrial geed pods 2 0.5 16 2.4 Algae (other) than diatoms 5.4 1.8 2.2 0.9 2.8 9.3 2.7 26.221.4 Pibrous plant remains 8.9 1.8 0.9 4.2 2.4 13.1 0.5 9.5 2.4 Unidentified 9 1 0.5 10.5 10.7 Unidentified 9 1 0.5 10.5 10.7 Constrained 5.4 1.8 0.9 0.9 2.8 1.9 2.7 1.1 4.8 4.8 Total Other 553 8.9 37 4.0 1000 5.2 480 4.9 29 31.0 TOTALS FOR TABLES THROUGH Sample size 56 217 201 172 39 No empty stomachs 2 13 18 11 6	<u>Cirripedia</u>					10.4			0.5			0.5				
Castoda 1 0.5 13 9.5 Class Nematods G4212.51.8 86 6.7 0.4 871 11.8 4802.2 13 9.5 Actiniaria 1 1.8 - - - 3.8 9.5 2.4 Actiniaria 1 1.8 - - - 3.8 9.5 2.4 Terrestrial 0.71.8 6.3 0.4 - 5.2 0.9 - 3.8 9.5 2.4 Algae (other) than diatoms 5.4 1.8 2.2 0.9 - 2.8 - 9.3 2.7 26.2 2.14 Diatoms 5.4 1.8 2.2 0.9 - 2.8 - 9.3 2.7 26.2 2.14 Diatoms 5.4 1.8 0.9 - - 4.2 2.4 - 13.1 0.5 2.4 Unidentified - 0.9 - 2.8 1.9 - 2.7 1.1 +.8 4.8 Total Other 53 8.9								122	10.9							- 1
Class Nematode 642 12.51.8 86 6.7 0.4 871 11.8 4802.2 13 9.5 Actiniaria 1 1.8 - - 5.2 0.9 3.8 9.5 2.4 Terrestrial 2 0.5 16 2.4 - 16 2.4 Algae (other) 5.4 1.8 2.2 0.9 3.8 9.5 2.4 Datoms 0.4 0.9 2.2 0.5 16 2.4 Platoms 0.4 0.9 2.2 0.5 16.7 Pibrous plant 8.91.8 0.9 2.8 9.3 2.7 26.221.4 Unidentified 8.91.8 0.9 2.4 - 13.1 0.5 9.5 2.4 Unidentified 5.4 1.8 0.9 0.9 2.8 1.9 -2.7 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 1000 5.2 480					ļ			7	05							
Order Actiniaria 1 1.8	Class Nematoda	AL2	12.5	1.8	86	6.7	0.4		118	*****	480	0 2		13	05	
Sediment 10.7 1.8 6.3 0.4 5.2 0.9 3.8 9.5 2.4 Terrestrial 2 0.5 16 2.4 Algae (other) 5.4 1.8 2.2 0.9 9.3 2.7 26.2 21.4 Diatoms 0.4 0.9 2.2 0.5 16 2.4 Diatoms 0.4 0.9 2.2 0.5 16.7 Fibrous plant 0.4 0.9 2.2 0.5 16.7 Fibrous plant 8.9 0.4 0.9 2.2 0.5 16.7 Unidentified 9.1.8 0.9 - 4.2 2.4 - 13.1 0.5 2.4 Unidentified 5.4 1.8 0.9 0.9 2.8 1.9 - 2.7 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 1000 5.2 480 4.9 29	Order		1			 				Statute and second second	100	F. 6			2.	a advantation (see spin)
Sediment 10.7 1.8 6.3 0.4 5.2 0.9 3.8 9.5 2.4 Terrestrial 2 0.5 16 2.4 Algae (other) 5.4 1.8 2.2 0.9 9.3 2.7 26.2 21.4 Diatoms 0.4 0.9 2.2 0.5 16 2.4 Diatoms 0.4 0.9 2.2 0.5 16.7 Fibrous plant 0.4 0.9 2.2 0.5 16.7 Fibrous plant 8.9 0.4 0.9 2.2 0.5 16.7 Unidentified 9.1.8 0.9 - 4.2 2.4 - 13.1 0.5 2.4 Unidentified 5.4 1.8 0.9 0.9 2.8 1.9 - 2.7 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 1000 5.2 480 4.9 29	Actiniaria	11	1.8													
Terrestrial seed pods 2 0.5 16 24 Algae (other) than diatoms) 5.4 1.8 2.2 0.9 2.8 9.3 2.7 26.2 21.4 Diatoms 0.4 0.9 2.2 0.5 16.7 Fibrous plant remains 0.4 0.9 2.2 0.5 16.7 Unidentified eggs 0.9 4.2 2.4 13.1 0.5 9.5 2.4 Unidentified remains 5.4 1.8 0.9 2.8 1.9 2.7 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 1000 5.2 480 4.9 29 31.0 Sample size 56 217 201 172 39 39 16 11 6 No empty 2 13 18 11 6 11 6 11 11 11 11 11 11 11 11 11 11 <t< td=""><td></td><td></td><td>10.7</td><td>1.8</td><td></td><td>6.3</td><td>0.4</td><td>940 F/G</td><td>5.2</td><td>0.9</td><td></td><td>3.8</td><td></td><td></td><td>9.5</td><td>24</td></t<>			10.7	1.8		6.3	0.4	940 F/G	5.2	0.9		3.8			9.5	24
Algae (other) than diatoms) 5.4 1.8 2.2 0.9 2.8 9.3 2.7 26.221.4 Diatoms 0.4 0.9 2.2 0.5 16.7 Fibrous plant remains 8.91.8 0.9 14.2 2.4 13.1 0.5 9.5 2.4 Unidentified eggs 1 0.5 Unidentified 5.4 1.8 0.9 0.9 2.8 1.9 2.7 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 1000 5.2 480 4.9 29 31.0 TOTALS FOR TABLES THROUGH Sample size 56 217 201 172 39 No empty stomachs 2 13 18 11 6	Terrestrial				Γ			Martin Construction (Construction)	a and the second second	19.5 B. 19.			**************************************		and a series of the sec	and the spin state of the second
than diatoms) 5.4 1.8 2.2 0.9 2.8 9.3 2.7 26.2 21.4 Diatoms 0.4 0.9 2.2 0.5 16.7 Fibrous plant 0.9 14.2 2.4 13.1 0.5 9.5 2.4 Unidentified 1 0.5 1 0.5 1 1.0 1.0 1.1 4.8 4.8 Unidentified 5.4 1.8 0.9 0.9 2.8 1.9 2.7 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 0000 5.2 480 4.9 29 31.0 Sample size 56 217 201 172 39 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>0.5</td><td></td><td></td><td></td><td></td><td>16</td><td>24</td><td></td></td<>								2	0.5					16	24	
Diatoms 0.4 0.9 2.2 0.5 16.7 Fibrous plant 8.91.8 0.9 4.2 2.4 13.1 0.5 9.5 2.4 Unidentified 1 0.5 1 0.5 9.5 2.4 Unidentified 5.4 1.8 0.9 2.8 1.9 2.7 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 1000 5.2 480 4.9 29 31.0 Sample size 56 217 201 172 39 39 No empty 2 13 18 11 6 6				_											C.6725467, 2404	1000 000 000 730 dV 24.4
Fibrous plant 8.91.8 0.9 4.2 2.4 13.1 0.5 9.5 2.4 Unidentified 1 0.5 1 0.5 1 1.0.5 9.5 2.4 Unidentified 1 0.5 1 0.5 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 1000 5.2 480 4.9 29 31.0 Sample size 56 217 201 172 39 39 39 No empty 2 13 18 11 6 6			5.4	1.8	ļ	2.2	0.9		2.8		****	9.3	2.7		26.2	21.4
remains 8.91.8 0.9 14.2 2.4 13.1 0.5 9.5 2.4 Unidentified 9 1 0.5 1 0.5 1 <			-			<u>p.4</u>			0.9			2.2	0.5		16.7	
Unidentified 1 0.5 1 0.5 Unidentified 5.4 1.8 0.9 0.9 2.8 1.9 2.7 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 000 5.2 430 4.9 29 31.0 Total Other 55 8.9 87 4.0 000 5.2 430 4.9 29 31.0 Sample size 56 217 201 172 39 39 No empty 2 13 18 11 6 6														ł		
eggs 1 0.5 1.1 0.5 1.1 1.		horean	<u>8.9</u>	1.8	-1460 Britson & A.S.A.		0.9		4.2	2.4		13.1	0.5		95	24
Unidentified 5.4 1.8 0.9 0.9 2.8 1.9 2.7 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 1000 5.2 480 4.9 29 31.0 Total Other 53 8.9 87 4.0 1000 5.2 480 4.9 29 31.0 Sample size 56 217 201 172 39 39 39 No empty stomachs 2 13 18 11 6 6		Į								[·						
remains 5.4 1.8 0.9 0.9 2.8 1.9 2.7 1.1 4.8 4.8 Total Other 53 8.9 87 4.0 1000 5.2 480 4.9 29 31.0 Total Other 53 8.9 87 4.0 1000 5.2 480 4.9 29 31.0 TOTALS FOR TABLES THROUGH 39 39 39 39 39 39 39 Sample size 56 217 201 172 39 30 30 30 30 <td><u>eggs</u> Unidontified</td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td><u> _</u></td> <td>0.5</td> <td></td> <td>a</td> <td></td> <td></td> <td>ļ</td> <td></td> <td></td>	<u>eggs</u> Unidontified							<u> _</u>	0.5		a			ļ		
Total Other 53 8.9 87 4.0 0000 5.2 480 4.9 29 31.0 Sample size 56 217 201 172 39			11													
Sample size5621720117239No empty stomachs21318116	T GUIG THE		p.y	ц.о		10. <u>9</u>	0.9		2.0	<u>+•</u> У		201	┟╧╻╧		4.8	4.8
Sample size5621720117239No empty stomachs21318116	Total Other	653		8.9	87		4.0	000	ł	5.2	LIRA		4 0	20		31 0
Sample size 56 217 201 172 39 No empty stomachs 2 13 18 11 6			1			+				~		-		67		100
Sample size 56 217 201 172 39 No empty stomachs 2 13 18 11 6			TC	TALS	FO	R TI	BLES	ļ ŗ	THROU	GH						
No empty stomachs 2 13 18 11 6					1	I					AND STRATEGY					
stomachs 2 13 18 11 6		56			<u>217</u>			201			172			39		
	No empty		1													
-51	stomachs	2			13			18	(11			6		1
51						1	ł					[ļ			
51																
51								ł]		. ·	
51															l I	
51								Į								
-51-									ł							
-51								i	1					1		l
-51-			1						1].				1		
-51-									ļ							
-51-			1		1										ļ	
			1			ł	- 57	_							1	
						1		Ì								
			ł		ł			ļ				ļ	I	1		

 \bigcirc

TABLE 5

COLLECTION	ጋልጥል	FOR	TTDAT.	POOT	STATION	58
COTTECTAN	DATA	TOU	T T T & P P P		OTUT TON	

Sampling Date:	8/30/73	10/12/73	1/23/74	5/22/74
Salinity ppt:	25.44	30.32	15.81	29.78
D.O. mg/1:	6.86	6.04	5.00	10.00
Temp ^O C:	33.0	17.0	6.5	2442 (PHD) 1942
Sample size	47	29	38	13
Mummichog	37	11	14	1
Sheepshead minnow	2	18	12	10
Tidewater silversides	2	0	8	0
R _a inwater killifish	6	0	Lį.	2
Empty	1	0	8	0
Stomach analysis	46	29	30	13

You are Viewing an Archived Copy from the New Jersey State Library TABLE & STOMACH CONTENT ANALYSIS BY SPECIES

Tips PCL String 73 Site Parallel Control String PCL F 21 F0 20 F1 24 T0 50 F1 24 Algae other than dino or that		S!	POM.	ACE	C C C	NTE	ΓT	AN	ALY	SI	3 B	YS	SPEC	IES	;		1	I			
Current Item FO FC FA FO FA FO FO FO FA FA Algae other than dino or diatoms 5 TO 1 2.6 5 1021 2.2 Dinoflaces 20 52 CO 200 3.50 2482 2472 Dinoflaces 20 52 CO 1.50 2492 2492 Chironimidae 1 2.0 2 200 2492 2492 Camaria 3.2.1 2.8 2 200 2492 2493 Camaria 3.2.1 2.8 2 200 2493 2493 Camaria 2.83 1.2.2 2 200 2433 1.2.2 Camaria 1 2.100 2 2433 1.2.2 Camaria 1 2.100 2 331 1.2.2 Camaria 1 2.00 1.50 1.50 1.2.2 Calanoid 2.56 2.00 <td></td> <td></td> <td></td> <td></td> <td>T</td> <td>DE</td> <td>PO</td> <td>OL</td> <td>SUE</td> <td>I (E)</td> <td>R 7</td> <td>3.</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>,</td> <td></td> <td></td>					T	DE	PO	OL	SUE	I (E)	R 7	3.					1		,		
Current Item F0 20 F1 F1 F0 20 F1 F1 F0 F0 F0 F1 F1 F0 F0 F1 F0 F0 F1 F0 F1 F0 F1 F0 F0 F1 F1 F0 F1 F1 F0 F1 F1 F1 F0 F1		M	aram	ich	log	Sh	ee eal	23- 1		Si.	leÿ lve	ate rsi	ldes	Ra	ip	iat 111	sh		Tot	al	
Algae other than dino or diatoma 5 TB 1 28 Dinorlarelates 33 27 28 28 2 DOC 2 DOO 3 50 30 28 28 4 712. Diatoma 20 56 1 150 4 2 45 Chironimidae 6 67 1 28 1 50 4 2 50 2 100 2 100 2 20 3 10 2 45 5 Pibrous plant remains 3 2.3 1 28 2 10 2 100 2 2 33 1 67 2 65 1 22 Chaocera 1 2.8 2 100 2 100 2 2 33 1 67 2 65 1 22 Chaocera 1 2.8 2 100 2 100 2 2 33 1 46 7 2 65 1 22 Chaocera 2 100 2 100 2 2 33 1 46 7 2 65 1 22 Chaocera 2 100 2	Current Item	fO	90	FI	175	fol	70	fI	%I	fO	%C	Ē	%I	<u>f0</u>	%0	fī	%1	fO	80	fī	%I
than dino or TAG 1.2.8 5.1001.2.2. Dinoflazelate 32.9.7 32.86.2 1.50. 2.492 Diatoms 20.966 1.50. 2.492 2.61.6 1.20 Chironinidae 1.2.1 2.0 6.00.5 3.312.261.6 1.20 Pibrous plant 3.2.3 1.2.8 3.49.2 3.51.2.2 2.4.3 Cammarid re: 1.2.6 2.00.2.00 2.43.3 1.2.2 4.5.3 1.2.2 Calaocers. 3.51.2.2 2.43.3 2.4.3		1766/17 VOID	erfrei vera	and the second	a levena	sixinit'' riteri	6	98-938-979	fign strendstern	JE:377.34444	Super sea	ana wasinin	ader car court	1894 - 18 9 0-1890 - 1880 -	-fa1:12.00******			a canada a seriente e		44-1-000 miles	
diatoms 5 1031 128																					
Dinoflazelater 33 21 32 35 2 Dog 2 800 3 50 3 50 3 24 52 Diatoms 20 56 1 50 6 100 5 83 312 26 6 120 Pibrous plant 3 3 3 1 28 6 100 5 83 312 26 6 120 Calcorera 3 6 3 1 28 3 6 3 1 28 Calcorera 3 6 3 1 28 2 4 5 3 3 2 4 5 3 2 4 5 3 2 4 5 3 2 4 5 3 2 4 5 3 2 4 5 3 3 2 4 5 3 2 4 5 3 2 4 5 3 3 2 4 5 3 2 4 5 3 3 2 4 5 3 2 4 5 3 3 2 4 5 3 2 4 5 3 3 3 2 4 5 3 3 2 4 5 3 3 3 2 4 5 3 3 3 2 4 5 3 3 3 2 4 5 3 3 3 2 4 5 3 3 3 2 4 5 3 3 3 2 4 5 3 3 3 2 4 5 3 3 3 2 4 5 3 3 3 2 4 5 3 3 3 2 4 5 3 3 3 3 2 4 5 3 3 3 2 4 5 3 3 3 3 2 4 5 3 3 3 3 2 4 5 3 3 3 3 2 4 5 3 3 3 3 3 3 2 4 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	diatoms	5	138	٦	2.8													5	100	1	2.2
Distors 20 56 150 2 12 Chironimidae 128 6 100 5 33,312 251 6 130 Pibrous plant 30,3 1 28 2 100 2 100 2 43,3 1 2.2 Camaria re 12.8 2 100 2 100 2 43,3 1 2.2 Camaria re 2 12.8 2 100 2 100 2 43,3 1 2.2 Marpaticold 6 167 2 65 1 2.2 Camaria re 2 100 2 100 2 43,3 1 2.2 Marpaticold 6 167 2 2 100 2 100 2 43,3 1 2.2 Marpaticold 6 167 2 2 100 2 100 2 43,3 1 2.2 Calanoid 2 100 2 100 2 100 2 43,3 1 2.2 Coperods 2 56 2 1 50 1 2.2 Goales 2 56 2 1 2 2 100 2 43,3 1 2.2 Operods 2 56 2 1 2 50 2 43,3 1 2.2 Ostracoda 7 154 1 1 128 1 2.2 Fematodec 1 2.8 2 10 1 50 1 2.5 Pibroocda 2 1.2 2 155 1 2.2	Dinoflagelates	33	917	32	889	2	100	. 2	100	and a fail spe	10.00	arrokeir.ars		3	50			38	82.6	34	73.9
Chironinidae 6 67 1 2.8 6 100 5 33.3 12 28 36.5 12.2 37.5 36.5 12.2 37.5 36.5 12.2 37.5	Diatoms	20	55.6	1.11.11.11.11.11.11.11.11.11.11.11.11.1]	5.0.	man Io- 10 P. 1			V870473.04	* 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		21	457	-	okensker/4 dj. jeza
Fibrous plant 36.3 1 28 36.5 1 2.2 remains 36.3 1 2.8 2 00 2 100 2 0.3 1 0.5 2 0.4 0.5 Gammaria relation 2 0.3 1 0.5 2 0.3 1 0.5 2 0.3 1 0.5 0.5 2 0.3 1 0.5 0.5 0.5 0.3 1 0.5 0.5 2 0.3 1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Chironimidae																~ ~		~		10 0
remains 38.31 28 1 <td>larva</td> <td>6</td> <td>16.7</td> <td>]</td> <td>28</td> <td></td> <td>stormant 4</td> <td>1.714621413</td> <td></td> <td></td> <td></td> <td>dector de composition</td> <td>a shad an an an an an an</td> <td>6</td> <td>1.00</td> <td>5</td> <td>83.3</td> <td>12</td> <td>201</td> <td>0</td> <td><u>130</u></td>	larva	6	16.7]	28		stormant 4	1.71 4 621413				dector de composition	a shad an an an an an an	6	1.00	5	83.3	12	201	0	<u>130</u>
Marpaticold covenods 6 16.7 2 100. 5 533 1.3253 larva larva larva larva larva larva Calanold copenods 2 56 l 50. l 167. 48.7 Cycloid scales 2 56 larva 7 154 Adult insect 7 154 Adult insect 7 154 Adult insect 3 3 1 2.8 1 50. larva 3 6.5				-	00													<u>ر</u>	65	1	22
Marpaticold covenods 6 16.7 2 100. 5 533 1.3253 larva larva larva larva larva larva Calanold copenods 2 56 l 50. l 167. 48.7 Cycloid scales 2 56 larva 7 154 Adult insect 7 154 Adult insect 7 154 Adult insect 3 3 1 2.8 1 50. larva 3 6.5		2	0.3	<u> </u>	20	inter, estratutori	er.565294			2	100	2	100					2	4.3	2	43
Marpaticold covenods 6 16.7 2 100. 5 533 1.3253 larva larva larva larva larva larva Calanold copenods 2 56 l 50. l 167. 48.7 Cycloid scales 2 56 larva 7 154 Adult insect 7 154 Adult insect 7 154 Adult insect 3 3 1 2.8 1 50. larva 3 6.5			5 8	07130-) 4 AN		-		<u> </u>		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u></u>	(~) 	T.C.	2	33.3]	16.7	3	6.5	ĩ	2.2
copends 6 16.7 2 100. 5 133. 1 38:3 Gastropod 1	Harnaticoid		C • <u></u> <u></u>		-	en e con marchada					0001400-3/17840-1	101 F 1347 1497	callings and called a little	สมราวารเรืองหา			i i i i i i i i i i i i i i i i i i i			19. u.s. (17 2581)	
Gastropod Larva Calanold coppods 2 56 1 50 1 67 4 4 7 Gycloid scales 2 56 2 6 2 4 7 1 52 Adult insect remains 3 3 1 2.8 1 50 4 8.7 1 2.2 Nematodes 1 2.0 2 100 3 6.5 100 Mathematodes 1 2.0 2 100 3 6.5 100		6	16.7		ł.					2	LØ.			5	ගි.3			13	28.3		in Ārapagau a, 79
<u>coperods</u> 2 56 1 50 1 50 4 482 <u>scales</u> 2 56 243 <u>ostracoda</u> 7 54 7 152 <u>Adult insect</u> 3 03 1 28 1 50 4 8.7 1 22 <u>Wematodes</u> 1 2.3 2 10 1 50 1 6 8.7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 50 1 6 8.7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 50 1 6 8.7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 50 1 6 8.7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 1 0 1 6 8 8 7 1 22 1 0 1 6 8 8 7 1 22 1 0 1 6 8 8 7 1 1 22 1 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Gastropod	A CHARTER	- Aller						Ι												
<u>coperods</u> 2 56 1 50 1 50 4 482 <u>scales</u> 2 56 243 <u>ostracoda</u> 7 54 7 152 <u>Adult insect</u> 3 03 1 28 1 50 4 8.7 1 22 <u>Wematodes</u> 1 2.3 2 10 1 50 1 6 8.7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 50 1 6 8.7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 50 1 6 8.7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 50 1 6 8.7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 <u>Nematodes</u> 1 2.3 2 10 1 6 8 8 7 1 22 1 0 1 6 8 8 7 1 22 1 0 1 6 8 8 7 1 22 1 0 1 6 8 8 7 1 1 22 1 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	larva	-		ļ				ļ						••••••••••••••••••••••••••••••••••••••		er.a. ****				14 / . 	ant-Linte
Cycloid 2 56 2/4.3 Ostracoda 7 5/4 7 1.52 Adult insect 3 0.3 1.2.8 1.50 4 8.7.1 1.22 Temains 3 0.3 1.2.8 1.50 4 8.7.1 1.22 Temains 3 0.3 1.2.8 1.50 4 8.7.1 1.22 Temainders 1 2.00 3 6.5 100			1.		1		1			7	~			Ъ	160			1 1	27		
scales 2 56 24-3 Ostracoda 7 152 7 152 Adult insect 3 6.3 1 2.0 3 6.4 Temains 3 2 100 3 6.4 100.		2	15.0		-	1 Mar 1 1 Mar 2 1 Mar 2 7					20,	902/867-360	11.1 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		10,7	u 1997 ander 19			0.7	ally mandred with the second	9.47. 1 579-344
Adult insect 263 1 2.8 1 50 4 8.7 1 22 Mematodes 1 2.8 2 1.00 3 6.5 100.		2	56		1				1									2	4.3		
Adult insect 263 1 2.8 1 50 4 8.7 1 22 Mematodes 1 2.8 2 1.00 3 6.5 100.	Octracoda	7	104	+		MASSING STREET			+	1997. V 1996. U 1996. U 1997. U		a		e pren postano de la	anka 12 Abilitan	A SHOULD BE AND	1	17	15.2		e Angusta (n M
remains 3 & 3 & 1 & 2.8 1.50 4 & 8.4 & 122 Rematodes 1 & 2.8 2 & 100 3 & 6.5 100.	Adult insect		Τ		†	04-0-1 818 -42	t			chro.5700-sea			(Ara), (Ar), (Ara)	n de las de las deserves							
		3	8.3]	2.8		L			1	50.			44-10- 8 23-196 -				4	<u>8.7</u>	1	22
	Nematodes	1	2.8		<u></u>	2	1.00		ļ	****	100000000000000000000000000000000000000					ana a 27 sabash		13	6.5		utroseta)
								1							l			1			m
-53-																					
-53-																1					
-53-																					
-53-									1										1		
-53-									1]			
-53-			ŀ								1							1			
-53-		1									}							1			
-53-		ļ																1			
-53-											ŀ	1					1.				
-53																		1	1		
-53-											1										
-53-						1															
-53-					1																
-53-																					
																				[
-53																					
-53																					
-53-						1															
-53-						1												1			
-53-			1																		
-53-					1	1					1						1			1	
-53-		1																			
-53-		1		1												1				Į	
		1							1						1						
				1														1			
									-53	-					1						
			1	1											1						
				l 	1	1	i	1	•	*	1				1	1	1	J			1

TABLE 6 (Conta) STOMACH CONTENT ANALYSIS BY SPECIES TIDE POOL - FALL '73

		liumm:	icho	g	; s	heep	shea	d		T	otal	
Content Item	f. 0	% Q	fI	%I	f.0	%0	fI	%I	£O	%0	fl	%I
Algae other than listed	7	63.6	6	54.5	17	ç4,4	13	72.2	24	8 . 8	19	65.5
Dinoflagelates	6	63.6 54.5	2	18.2	3	167	1	5.6	9	31.0		10.3
Diatoms		81.8			18	100.	2	11.1	27	93.1	2	6.9
<u>Chironimidae larva</u>		27.3	2	18.2					3	10.3	2	6.9
Fibrous plant remains	2	63.6	anner 2, 200, 10 (hr 1		18	100.	2	11.1	7	24.1	2	6.9
Copepod-			_							6	-	
nondiscript	2	182	1	9.1	1	5.6			2	6.9 3.4	1	3.4
Gammarid remains			-			12.0			-L.	P•3'		
Harpacticoid copecods	CONTRACTOR INC	27.3			2	11.1			5	17.2	CARRIENS AND	
Gastropos larva	1	9.1						1	1	3.4		
Calanoid copepods	1	9.1		na na sel dara destante i a namerador 	11 10 10 10 10 10 10 10 10 10 10 10 10 1				1	3.4		
Cycloid scales	2	18.2]		2	6.9		
Chironimidae pupa	2	18.2					1		2	6.9		1
Nematoda	†				2	11.1		n	2	6.9		

You are Viewing an Archived Copy from the New Jersey State Library <u>TABLE 6 (CONT'D.)</u>

(]

STOMACH CONTENT ANALYSIS BY SPECIES

TIDE POOL - WINTER '74																
	Mu	ummichog Sheepshead			Tidewater 1 Silversides				Total							
Current Item	f.0	%0	<u>f</u> I	% <u>1</u>	f. 0	70	ſI	%I	f.0	%0	fI	%I	f.0	%0)	fl	%I
Algae other than dino or diatoms	11	84.6	4	30.8	8	88.9	5	.556	5	62.5	7	12.5	24	80.0	10	33.3
Dinoflagelates		462			2	22.2	1	11,1			adus Antidan de Casiliga			26.7	[3.3
Diatoms	The second se	76.9			9		3	333	2	25.0	***			63.3		10.0
Chironimidae _larva	7	5.8	4	30.8									7	23.3	4	13.3
Copepoda- nondescript	1	7.7		<u> </u>					2	25.0	2	25.0		ر <u>د م</u> 10 . 0		6.7
Gammarid remains	1	7.7	1	7.7						1tinumera				13.3	W DANG OF TRANSPORT	3.3
Harpacticoid <u>copepods</u>	4	<u>308</u>	1	7.7					6	<u>75.0</u>	5	62.5		<u>33,3</u>		20.0
Calanoid copepods	1	7.7											1	3:31		
Nematodes	2	154												6.7		And and a second second second
Gammarus	2	15,4		15.4						-				a of the second second	0	6 17
<u>macronatus</u> Hydroid re.		15.4		12.4			4.1.e-a.814-a.8194-4		- 	•				6.7 6.7		6.7
Polycheate re.		15,4	r 2. s Cargo dentição	7.7		****	4783-8001-943494			aya di mashkan di da				6.7	7	3.3
																the state of the s
<u>Nematoda</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~									-78 ⁻¹ (9999
																77 7
			-	· ·												
							5-									:
	l	I	1	1 ,		• 1	· .		1	1		1	l	•	ł	1

You are Viewing an Archived Copy from the New Jersey State Library <u>TABLE 6 (CONT'D)</u> STOMACH CONTENT ANALYSIS BY SPECIES <u>TIDE POOL SPRING - 1974</u>

()

								1	R	atinwa	tei					
	M	lummi	ch	og		heeps	he	ad		Kill		sh.		Tota		
<u>Content item</u>	fC	~%Q	τΊ	%I	<u>10</u>	%0	11	%I	±0	%0	fI	%I	f0	%0	fI	%I
Algae other than																
dino or diatoms	1	100.	 		10	100.	5	50.0	1	50.0			12	92.3	5	<u>38.5</u>
l'u e l'e mel e te m	-1	100				90.0	~	10 0	٦	r0 0			1 1	01 6	-	n n
<u>dinoflagelates</u>	1	100.	1. 1- 11-1 (199-1)		۲Ž-	90.0		<u>, 0</u>	-	20.0		19	<u></u>	84.6	<u> </u>	al a la
Diatoms	1	100.			10	100 .			ee-400 aanta	1999 (1999) 18 (1997) 18 (1997) 18 (1997) 18 (1997)		1.11 planter and an a sol of a	11	84.6	******	1987 (1998) 1935 (1977) 1983
Chironimidae larva	h	100.			1	10.0			2	1.00.	1	50.	4	30.8	- -	77
Fibrous Plant	÷	100.		,	┟╧	10.0				1.00.				<u>)</u> (, , ()		
remains				a lan agar laine p dhine lain ar a 104.40.4	6	60.0		- John Marine Stars Bulling W		an gan below and a stream		nan ya dina si manga kang kang	6	46.2		- THE OF BELLEVILLE
Copepoda							-	100					2	זר או	7	nn
<u>nondescript</u> Harpacticoid				an former in the state of the state	6	20.0	<u> </u>	100		*****			6	15.4		7.7
_copepods		ł			4	40.0	1	100					4	30.8	1	7.7
Calanoid				an ar an air									1.		_	
copepods	1	100.		angewer and and which is to produce the state of a	2	20.0	1	10.0]	50.		n (Maria de Culta de Ca	4	<u> 30.8</u>	<u>_</u>	7.7
Gammarus mucronatus	l 1	100.	7	100.	1				2	100.	7	50.	3	23.1	2	15.4
Hydroid re.					12	30.0				VER BUCKLEY, BELT			3	23.1		
Copepod					12	0.0		1 gr. 13 997 147 194 194	1.1607-1 ⁻¹⁶⁰⁷	August 10 - 20 and 10 - 10 - 20 - 20 - 20 - 20 - 20 - 20 -	1	an a		<u>~~</u>		
nauplii					4	40.0	1	10.0					4	<u>30.8</u>	1	7.7
Nematoda	1	100.											1	7.7		-
ME, ETV EENER LEPUEZ "DEC LEPER I NEP PLANFEL IM MED DURING IN MELINGEN MET MET MENNE	Γ		Ī		Ι											1001
			1													1001
		1														
			Ì													
									 							
					ŀ											
	1															
										1						
										1						
										[
					1									1		
														1 .		
	l															
									1					1		
						-56	-							1		
·		ŀ			1							1		1		

TABLE 7

STOMACH CONTENT ANALYSIS FOR TIDE PCOL BY SPECIES 4 SEASONS COMBINED

Species	Mummichog		Sheepshead Minnow		Tidewater Silversides		Rainwater Killifish		Tota	al.
Sample Size	61		39		10		8		118	3
Comtent Item	760	%I	%0	%I	%0	%I	560	%I	%0	%I
Algae except dia										
<u>and dino</u>	39.3	18.0	89.7	59.0	50.0	10.0	12.5		55.1	
Dinoflagelates	75.4	55.7	41.0	12.8	-	*********************	50.0	a di senan serie da la suna da	55.9	<u>33.1</u>
Diatoms	65.6		94.9	12.8	30.0	Castor and the second second			78.0	4.2
Chironimidae	07 0						7.00			
larvae	27.9	11.5	2.6	-			100.	- 75,0	22.0	11.0
Fibrous plant	16.4	7 6	67 0	<i>г</i> л	1				12 6	0 r
<u>remains</u> Cladocera	10.4	T 0	61.5	5.1	20.0	20.0	A Arberton Ball of C in Party Strategy and the		13.6 1.7	$\frac{2.5}{1.7}$
Copepoda	4, 16104)===Apriliteta , 2346, 184	-		PARAME TO AND THE PARAMETER OF THE PARAMET	20.0	20.0	THE REAL PROPERTY AND A DESCRIPTION OF	rianuine unger chaiust	1.	
nondescript	4.9	1.6	5.1	2.6	$b \cap \cap$	20.0			5.9	3.4
Gammarid	7.2		┟┛╍┶	2.0	£ 0	20.0			<u></u>	<u></u>
remains	3.3	1.6	2.6		1	1	25.0	125	6.8	1.7
Harpaticoid			~ • •				~			AND DESCRIPTION OF A DE
copepods	21.3	1.6	15.4	2.6	80.0	50.0	62.5		27.1	5.9
Gastropod	antitation (), and an and	profile the second second	The second					99993 (1997 - 200 ^{- 10} 17 (1997 - 200	and a second second	
larva	1.6								0.8	
Calanoid	LOUIS CLUBS WARNE	California C				* ************************************	C. THE TA-PERI-A HARMON BOOK	A TRACTACIÓN DE LA CONTRACTACIÓN DE LA CONTRACTAC	a di kana ka ka kana ka kana ka	
copepods	8.2		5.1	2.6	10.		12.5		7.6	0.8
Cycloid scales	6.6	(1)	an a sub-risk processing	And an and a second		a and a state of the state of t	angeler ander andere ander ander an	and an a second state of the second state of t	3.4	100 S 10
Chironimidae pura	3.3		1						1.7	
Ostracoda	11.5]						5.9	
Adult insect				l						
remains	6.6 4.9	1.6			10.				3.4	0.8
Nematodes	4.9		10.3				in and states and the base of the second	-	5.1	
Gammarus		Ι.								
mucronatus	4.9	4.9					25.0	12.5	4.2	3.4
<u>Hydroid remains</u>	3.3	-	7.7		ļ	*****	-		4.2	*************
Polycheate						1]	_ ~	
remains	4.9	1.6	<u> </u>			-		-	1.7	0.8
Copepod								ł		
nauplii		-	10.3	2.6	.		+		3.4	0.8
			1	l	1	·	1		1	

99.8

-57

You are Viewing an Archived Copy from the New Jersey State Library $\underline{\underline{TABLE}}_{8}$

()

.B		

STOMACH CONTENT ANALYSIS FOR TIDE POOL BY SEASONS ALL SPECIES COMBINED

ALL SPECIES COMBINED										
Seasons	Sur	nmer	Fall		Winter		Spring		Total	
Sample Size	1	+6		29		30	-	L3	1	18
Content Item	%0	%I	%0	% I	760	%I	%0	%I	%0	%I
Algae except dia.&	antie Suinte un anter state									
dino	10.9	2.2	82.8	65.5	80.0	33.3	92.3	<u>38.5</u> 7.7	<u>55,1</u>	<u>29.7</u> <u>33.1</u>
Dinoflagelates	82.6	73.9	<u>31.0</u>	10.3	26.7	3.3				
Diatoms	45.7		931	6.9	63.3	10.0	84.6		<u>78.0</u>	4.2
Chironimidae	06 1	13.0	102	6 0	22.3	13.3	30.8	7.7	22.0	11.0
<u>larva</u> Fibrous plant	<u> 20. L</u>	12.0	100	0.7	2.).)	<u>+)•)</u>				
remains	6.5	2.2	24.1	6.9		a para ta v aleta vince prince a	46.2		13.6	2.5
Cladocera	4.3	4.3							1.7	1.7
Copepoda-						1		5 5	~ ~	
nondescript	~ ~ ~		<u>6.9</u> 3.4	3.4	10.0 13.3	6.7	15.4	7.7	5.9 6.8	3.4
<u>Gammarid remains</u> Harpacticoid	6.5	2.2	2.4		1).)	<u></u>			0.0	
copepods	28.3		17.2		33.3	20.0	30.8	7.7	27.]	5.9
Gastropod larva			3.4		0.0	ar der symptotische Stationen allere al	20 6	7.7	0.8	0.8
Calanoid copepods	8.7		3.4 6.9		3.3	a age ya garangan a tair dan indira	30.8		3.4	0.0
<u>Cycloid scales</u> Chironimidae pupa	4.2		6.9		an de l'andre andre folgene aven				1.7	
Ostracoda	15.2			alia , Japan Katalan Ingela (Katalan Katalan Katalan Katalan Katalan Katalan Katalan Katalan Katalan Katalan K					5.9	
Adult insect	0 7			-					3.4	0.8
remains Nematodes	<u>8.7</u> 6.5	2.2	6.9	الموزر الأرام والمواجع والمراجع المراجع المراجع	ya ya matana kanana ka		7.7	ang tangan gan tay	5.1	
Gammarus	<u> </u>			an a shuka a ja Que' a da da da da da		a second and a second		and a state of the		
mucronatus	an and the second s				6.7	6.7	23.1	15.4	4.2	3.4
<u>Hydroid remains</u>							23.1		4.2	0.8
<u>Polycheate remains</u> Copepod nauplii							30.8	7.7	3.4	0.8
Ocheboa Haabtit							-			99.8
										•
						[
										1
]		
							}	ł		
	l									
									ł	
		ł								
	1		ļ	l						
				ļ		1				
								1	1	
		1			1			1		
	1				ł					

TABLE 9

RANK IN IMPCRIANCE OF FOOD ITEMS IN TIDAL POOL (S8)

Content Item	% Importance	% Occurrence
Dinoflagelates	33.1	59.9
Algae other than diatoms dino.	or 29.7	55.1
Chironimidae larva	11.0	22,0
Harpacticoid copepods	5.9	27.1
Diatoms	4.2	78.0
Copepods-nondescript	3.4	5.9
Gammarus mucronatus	3.4	4.2
Fibrous plant remains	2.5	13.6
Gammarus s <u>p</u> . remains	1.7	6.8
Cladocera	1.7	1.7
Calanoid copepods	0.8	7.6
Adult insect remains	0.8	3.4
Copepad nauplii	0.8	3.4
Polycheate remains	0.8	1.7
Ostracoda		5.9
Nematodes		5.1
Hydroid remains	dana sita	4.2
Cycloid scales		3.4
Chironimidae pupa		1.7
Gastropod larva	المدا العلم - حجه علم الجوا علم العلم الحوا العلم الحوال المدار الحوال الحوال الحوال الحوال الحوال الحوال الحوال الحوال ال	0.8

RANK OF FOOD GROUPS BY IMPORTANCE

All algae	67.0
Insects	11.8
Copepods	10.9
Amphipods	5.1
Detritus	2.5

For are viewing an Archived Copy non-the New Versey Otate Library								
	TABLE 10							
Category	LIST OF STATIONS Stations Included	Location Map						
Inlet Stations	Ti*, Sl, Tl4, T5, S5	Fig. 1 Fig. 5						
Bay Stations	S2, T2, T28, T12, T11, T3,S3, T7, T4, T6	Fig. 1 Fig. 2 Fig. 4 Fig. 5						
Creek Stations	S6, T13, S7, T26, T25, T24, S13, T9, GS13, T23, T27	Fig. 1 Fig. 2 Fig. 2 Fig. 4						
Mill Creek Stations	T8, S18, T16, T15 S16, S15, T17, T18, S17 GS17	Fig. 2 & Fig. 3 Fig. 3 Fig. 3						
Lagoon Stations	S9,S20,S19,S10,GS20	Fig. 3						
Tidal Pool Station	S 8	Fig. 2						

* Prefix T denotes trawl stations Prefix S denotes seine stations Prefix GS denotes gill net stations

-60-

