NOAA Technical Memorandum ERL MESA-37

THE INTERTIDAL AND SHALLOW SUBTIDAL BENTHOS OF THE WEST COAST OF WHIDBEY ISLAND SPRING 1977 TO WINTER 1978

First Year Report

Herbert H. Webber

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UNITED STATES
DEPARTMENT OF COMMERCE
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NATIONAL OCEANIC AND
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Richard A. Frank, Administrator

Environmental Research
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BY

HUXLEY COLLEGE OF ENVIRONMENTAL STUDIES
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Species list, number of species (NSPEC), species diversity index (SDI), total mean count (TMEANC), and total mean weight (TMEANW), for each Site, Season and Stratum. Values are numbers and biomass per $0.25m^2$ for animals, and biomass per $0.25m^2$ for plants. Data for all collection methods (except live seive) were recombined to a $0.25m^2$ format. Standard deviations are products of each collection method. The Coefficient of Variability is the standard deviation divided by the mean.

Appendix 1 (continued)

ABSTRACT

The intertidal and shallow subtidal (to -10.0m) flora and fauna from three sites on the west coast of Whidbey Island were sampled in the spring, summer and fall of 1977 and the winter of 1978. Sites were chosen to reflect the dominant intertidal habitats of sand, gravel and cobble substrate. Flora and fauna to a size of 1mm. were identified, counted, weighed, and placed in permanent storage.

Intertidally the species richness of the sand and gravel habitats was low (approximately 50 species) relative to the cobble habitat (200 species). Subtidally the species richness of the cobble and gravel sites was similar (300-350 species) while species richness of the sand site was lower (200 species).

Species composition intertidally showed little similarity between sites. Similarity indicies between gravel and sand, gravel and cobble, and cobble and sand were all less than 50 percent. Subtidally species similarity at two sites was low (gravel and sand 39 percent, cobble and sand 38 percent). However, species similarity subtidally between the cobble and gravel sites was relatively higher (64 percent).

At the gravel and sand habitats most species found intertidally were also found subtidally. Only a few were predominantly intertidal. At the cobble habitat some species were found predominantly intertidally, but most were found as well subtidally.

Sample methods used resulted in data with high variability. Coefficients of Variation showed the majority of species sampled had inadequate sample size and/or replicate number. Seasonal changes evident from the data were not pronounced. At any given sample elevation generally less than 5 - 10 percent of species showed significant differences in number or size. Most species with significant seasonal differences were predominant in summer. About 30 percent of species with significant seasonal difference were predominant in winter.

Results from the three sites on the west coast of Whidbey Island agree in general with similar studies on the Strait of Juan de Fuca, the San Juan Islands, and southern Georgia Strait.

INTRODUCTION

Puget Sound is a descriptive term used to describe the inland sea of northwestern Washington State and southwestern British Columbia (Fig. 1), It consists of the Strait of Juan de Fuca, the southern portion of the Strait of Georgia, channels of the San Juan Islands, numerous estuaries, and the southern inlets that are Puget Sound proper. The increased use of northern Puget Sound waters and shorelines for the transportation and refining of oil has increased concern about potential damage to marine resources of the area. In the last five years a number of studies have been initiated by industry and State and Federal government to document the components of the ecological systems of northern Puget Sound. The biological communities of southern Georgia Strait have been studied by Battelle Northwest (1976) for the Atlantic Richfield Oil Company. The Washington State Department of Ecology in 1974 initiated a baseline study of biological resources of Northern Puget Sound (D.O.E. 1978). In 1975 the National Oceanic and Atmospheric Administration initiated a MESA project (Marine Ecosystem Analysis) in Puget Sound that is designed to provide a data base on physical, chemical and biological components (MESA, 1978).

An important component of both the DOE baseline program and the NOAA MESA program is the characterization of the marine plants and animals of the intertidal and shallow subtidal areas of north Puget Sound. DOE studies have primarily focused on the geographical area from Anacortes to Blaine (Fig. 1) with major emphasis on the areas adjacent to oil shipping routes and refining activity, and similar "control" areas in the San Juan Islands. Results of these studies are available from the Washington State Department of Ecology (Nyblade 1977, Webber 1978).

NOAA's MESA project on the characterization of the intertidal and shallow subtidal benthos has focused on habitats of the Strait of Juan de Fuca (Nyblade, 1978). An important area of Puget Sound that is adjacent to oil shipping routes and has not had similar characterization studies of intertidal and shallow subtidal flora and fauna is the west coast of Whidbey Island from Admiralty Head to Deception Pass.

The objectives of the sampling program described in this report were to quantitatively characterize the benthos of the intertidal and shallow subtidal habitats of the west coast of Whidbey Island. Reported here are results for the first year's sampling on species richness, species diversity, community structure, seasonal changes and dominant forms.

A more detailed report will follow the completion of the second year of sampling.

The west coast of Whidbey Island is predominantly unconsolidated material deposited by glaciation. Moderate wave action has acted on the

material to form a shoreline composed of beaches. At headland areas erosion has created beaches composed of material that is too heavy for wave action to transport. These are cobble beaches and are found primarily at the base of actively eroding bluffs. Material eroded from the bluffs is carried by longshore drift to areas where wave action is reduced or some barrier results in deposition. These areas are accretional and are characterized by sandy beaches with extensive backshore areas composed of sand dunes. A third type of beach is that where material is not actively eroding or accreding, but is carried along by longshore drift. These are transport beaches. Transport beaches are mostly gravel or coarse sand. The southerly portion of the study area is mostly a series of erosional and transport beaches, while the northerly portion is primarily an area of accretion.

Three sites were chosen in this study to reflect the predominant beach types: Partridge Point, an erosional area with a cobble beach; Ebey's Landing, a transport area with a gravel beach; and West Beach, an accretional area with a sandy beach.

This study is based on an habitat approach. That is habitat types are named to reflect the dominant substrate type visible in the intertidal zone. By characterizing in detail the flora and fauna of a typical habitat type it is assumed that results can be extrapolated to other similar habitats.

Although the habitat type reflects the dominant substrate visible in the intertidal area, variability in substrate type exists. Substrate at most habitats at the +5 foot tide height and above often differs from the dominant substrate. Cobble beaches usually have a band of gravel at this height, mud beaches usually have a band of sand or cobbles. As well the substrate below the tide line changes from the dominant type. With increasing depth below the 0.0 tide height wave action decreases and the proportion of silt in the substrate increases. Except in rocky areas and areas of large tidal current, substrate type becomes a relatively uniform mud at a depth of 10m.

2. METHODS

2.1 Study Areas

The sample sites were established on the west coast of Whidbey Island from Deception Pass to Admiralty Head (Fig. 1). They were, from north to south, West Beach (sand habitat), Partridge Point (cobble habitat) and Ebey's Landing (gravel habitat).

2.1.1 West Beach

West Beach sample site was approximately one mile west of State Highway 525 and was reached by travel west on Banta, Murray, and Powell Roads. The permanent reference marker consists of three spikes driven into the asphalt parking area. Each spike was located 15.8' above the 0.0 tide height. The specific location of the sample area is shown in Figure 2.

2.1.2 Partridge Point

The cobble sample site was reached by travelling approximately three miles west on Libby Road from its intersection with State Highway 525. This intersection is approximately four miles southwest of Oak Harbor. On Libby Road approximately 200 feet before the public boat launch at Partridge Point, turn left into Padilla Estates. The sample location is at the foot of the private access beach road. The permanent reference marker at Partridge Point was the U.S.G.S. marker located on the top of a large boulder (Fig. 3). The tide height of the marker was 12.4' above the 0.0 tide height. The location of the specific sampling area is shown in Fig. 3.

2.1.3 Ebey's Landing

The gravel site was located at Ebey's Landing. The site was reached by travelling west on Ebey road from its intersection with State Highway 525 approximately one mile north of Coupeville. The sample site was located adjacent to the road where it parallels the beach. The permanent reference marker was three spikes placed in the center of the road surface (Fig. 4). Each spike was 10.4' above the 0.0' tide height. The specific location of the sample site is indicated on Fig. 4.

2.1.4 Sample Area

At each site the sample area was a 50m wide strip from the +6' to -1' tide height. At given strata samples were located along the 50m line by a table of random numbers.

Subtidal sample areas were located immediately offshore of the intertidal sites. Subtidal samples were located on depth contours in haphazard fashion along a line of approximately 30m width.

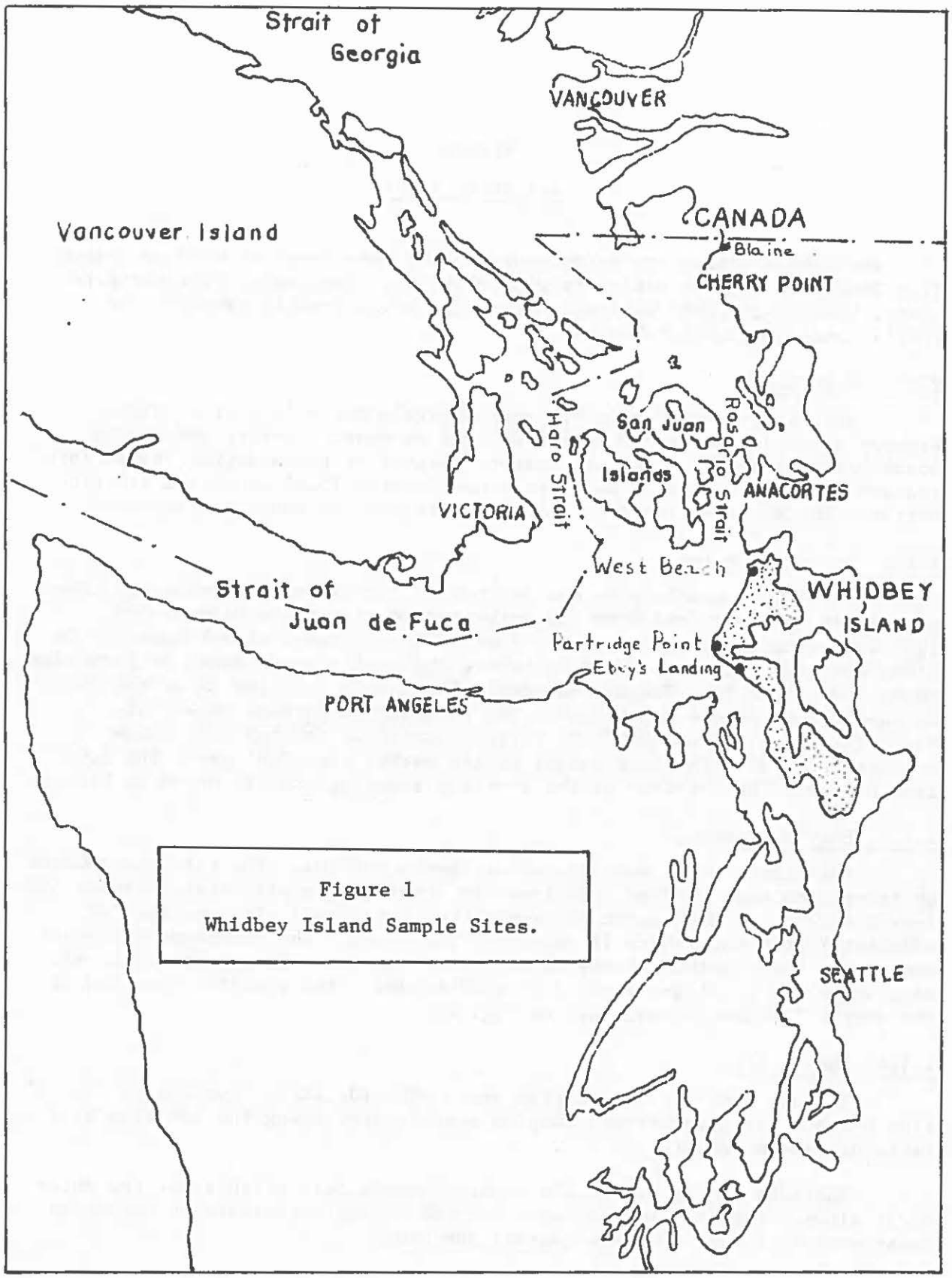


Figure 1
Whidbey Island Sample Sites.

Figure 2. Site Diagram, West Beach (Sand)

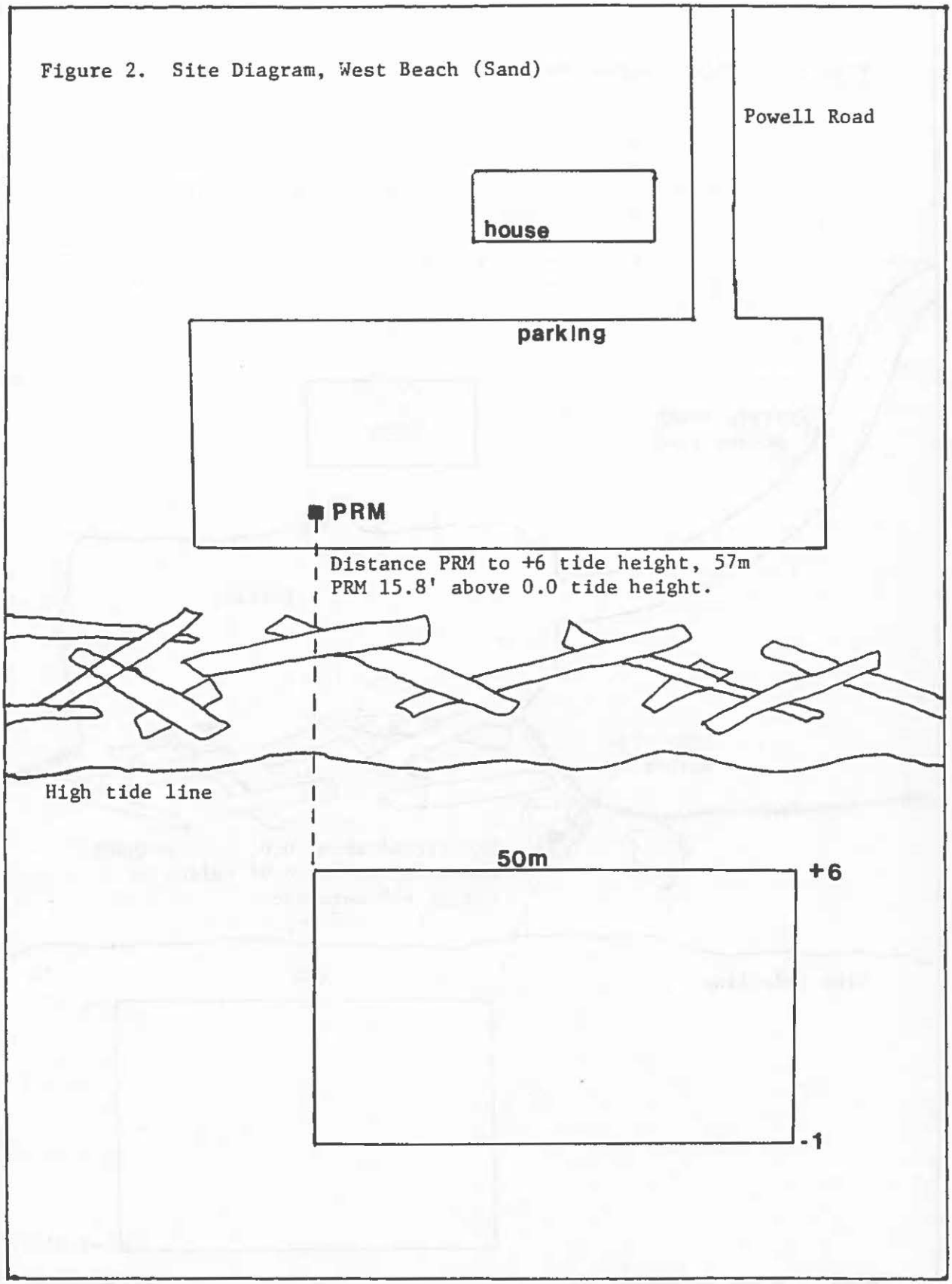


Figure 3. Site Diagram, Partridge Point, (Cobble).

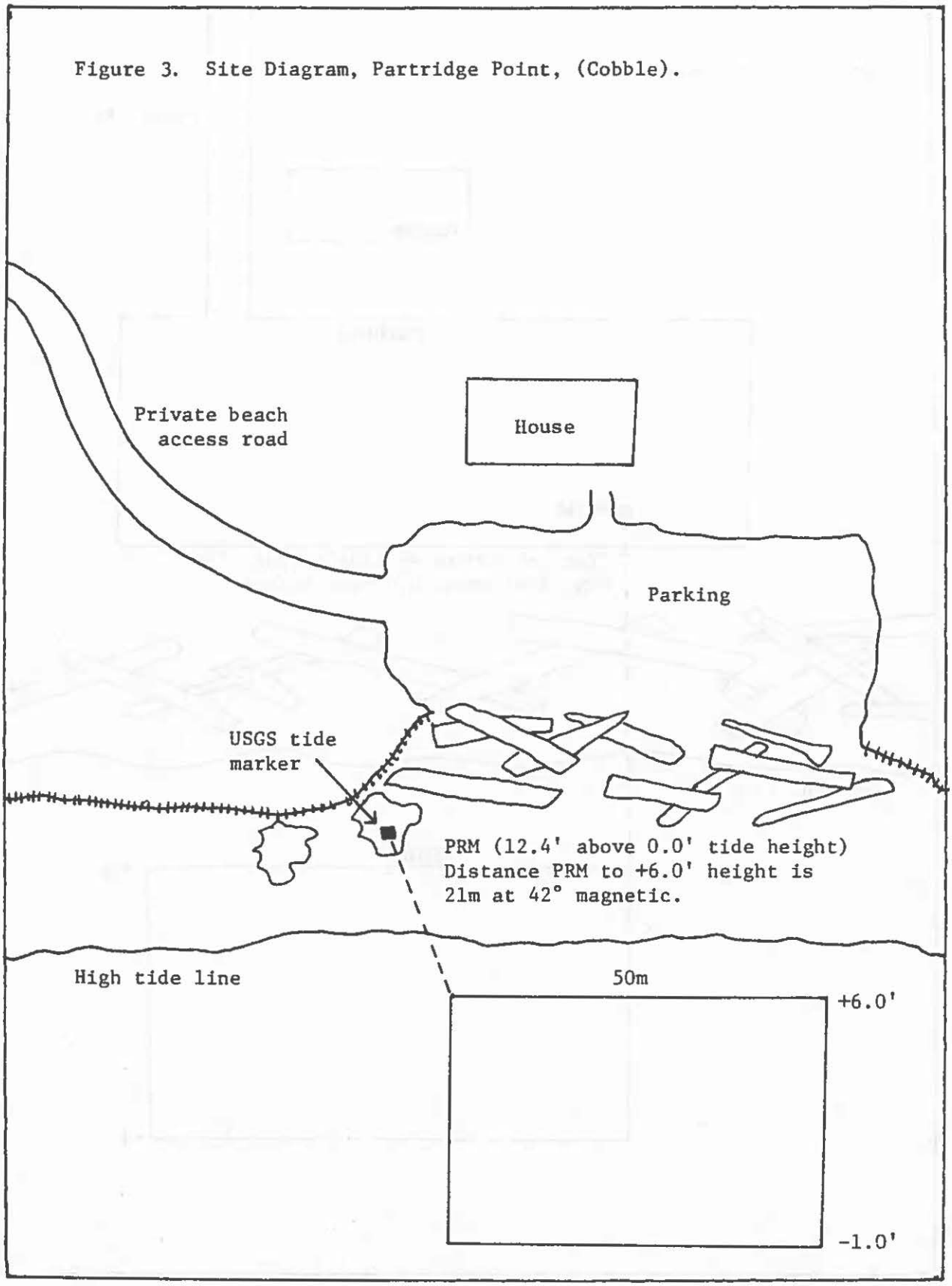
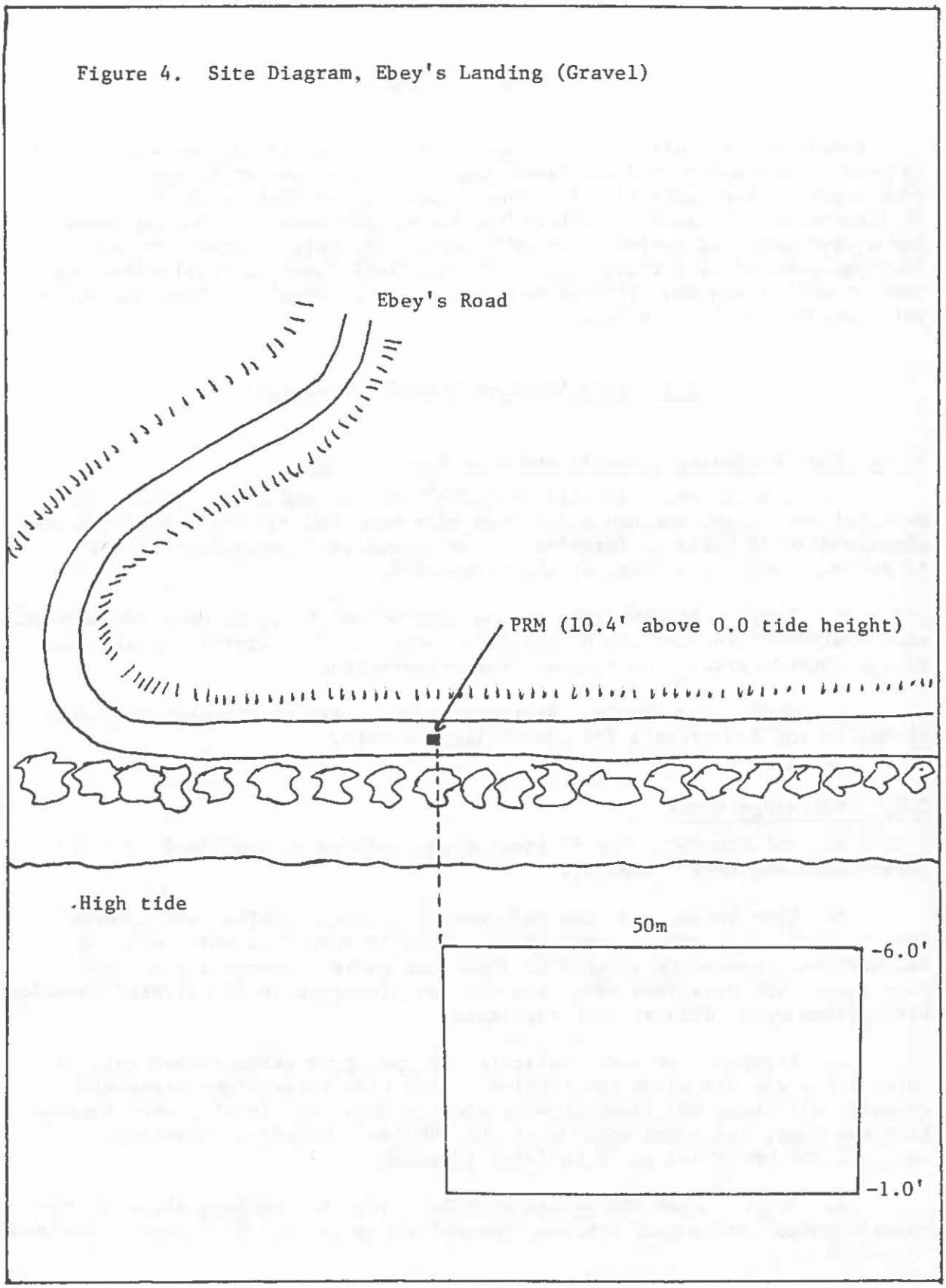


Figure 4. Site Diagram, Ebey's Landing (Gravel)



2.2 Sample Schedule

Sample effort varied at site and season. Intertidally one tide height in each of the upper, mid and lower tide areas was sampled in each of the four seasons (see Table 1). For Ebey's Landing and West Beach five replicates were located at each of the three tide heights. During summer and winter sampling periods each additional tide height between +6 and -1 feet was sampled with triplicates. For subtidal sampling triplicates were used at all strata and all seasons. A summary of sampling times and replicate numbers is given in Table 1.

2.3 Field Sampling Methods Intertidal

2.3.1 Ebey's Landing (gravel) and West Beach (sand).

a. Live Seives. An area of $0.25m^2$ was removed to a depth of 30cm. Material was passed through a 0.5 inch wire mesh and all fauna retained and preserved in 5% buffered formalin. Live seives were taken only at the +6, +3 and 0.0' strata, at each of the replicates.

b. Cores. At each replicate a core $0.05m^2$ by 15cm. deep was removed with minimum disruption and placed in a bucket. 12% buffered formalin was gently worked through the sediment for preservation.

c. Grain Size Sample. Approximately 1 liter of sediment was taken at +6, +3 and 0.0' strata for grain size analysis.

2.3.2 Partridge Point

a. +6' Stratum. The +6 stratum was sampled as described in 2.3.1 (West Beach and Ebey's Landing).

b. Live Seives. As the +2' and 0.0' strata cobbles were removed from a $.25m^2$ area, mobile invertebrates greater than 1cm. were retained. Sediment was removed to a depth of 30cm. and passed through a 0.5 $inch^2$ wire mesh. Any organisms were retained and preserved in 5% buffered formalin. Live seives were taken at each replicate.

c. Scrapes. At each replicate a $0.25m^2$ grid subsectioned into 25 $.01m^2$ areas was placed on the cobbles. From five subsections (randomly chosen), all algae and invertebrates greater than 1mm. in size were removed from the tops, sides and bottoms of the cobbles. Organisms were kept separate and preserved in 5% buffered formalin.

d. Algae. From the remaining $0.2m^2$ area all surface algae macroinvertebrates larger than 1cm. was removed and preserved in 5 percent buffered formalin.

Table 1

A. Number of Replicates and Strata Sampled. +6' to -1' are tide heights in feet (Port Townsend tide tables). -1.5 m to -10 m are depths in meters below the 0.0' tide height. PP = Partridge Point, EL = Ebey's Landing, WB = West Beach.

	Spring, Fall	Summer, Winter
+6'	PP4, WB5, EL5	PP4, WB5, EL5
+5'	not sampled	PP3, WB3, EL3
+4'	not sampled	PP3, WB3, EL3
+3'	WB5, EL5	PP3, WB5, EL5
+2'	PP4	PP4, WB3, EL3
+1'	not sampled	PP3, WB3, EL3
0'	PP4, WB5, EL5	PP4, WB5, EL5
-1'	not sampled	PP3, WB3, EL3
-1.5 m	PP3, WB3, EL3	PP3, WB3, EL3
-2.5 m	not sampled	PP3, WB3, EL3
-5.0 m	PP3, WB3, EL3	PP3, WB3, EL3
-7.5 m	not sampled	PP3, WB3, EL3
-10.0 m	PP3, WB3, EL3	PP3, WB3, EL3

B. Sampling Dates.

	Spring		Summer		Fall		Winter	
	Int.	Sub.	Int.	Sub.	Int.	Sub.	Int.	Sub.
West Beach	4/6/77	4/19/77	7/2/77	8/10/77	10/15/77	11/18/77	1/6/78	1/24/78
Ebey's Landing	4/7/77	4/28/77	7/1/77	8/22/77	10/17/77	11/3/77	1/7/78	2/13/78
Partridge Point	4/8/77	4/30/77	6/30/77	8/26/77	10/18/77	11/8/77	1/8/78	2/6/78

e. Core. Cobbles were removed from the $0.25m^2$ area and a $0.05m^2$ by 15cm core was removed with minimum disruption. Sediment was preserved in 12% buffered formalin as described in 2.1.1.

2.4 Subtidal Field Methods

Subtidal samples were taken with the aid of scuba equipment and a working platform that was placed over the sample site. A $0.25m^2$ quadrat was placed on the bottom and all animals greater than 1cm. and all algae were removed and sucked by air lift into a cloth bag of 0.7mm. mesh size. Tests indicated that a 0.7mm mesh size retained organisms of a similar size to a 1.0mm mesh size used to seive dead organisms. Once algae were removed, a $0.05m^2$ by 15cm. core was removed and sucked by air lift into a bag of 0.7mm. mesh size. Organisms were preserved in 5% buffered formalin. One liter of sediment was taken from each subtidal stratum for grain size analysis.

2.5 Laboratory Procedures

a. Live Seives. Organisms were sorted to species, identified, and number of individuals and total wet weight (0.01 gm.) recorded. Molluscs were weighed with shells. Each species was labelled and placed in 30% isopropyl alcohol buffered with hexamethyline tetramine for permanent storage.

b. Intertidal Scrapes. Organisms from the five $0.01m^2$ scrapes were sorted to species. Wet weight (0.01g) biomass was recorded for algae. For animals, numbers of individuals and total wet weight (0.01g) were recorded. Each species was preserved and labelled for semi permanent storage. Algae were preserved in 6% buffered formalin. Animals were preserved as described above in a.

c. $0.25m^2$ Algae. Algae were sorted to species, identified, wet weight (0.01g) taken, labelled and preserved as described above.

d. Cores. Sediment was washed through a 1.0mm. screen. The retained sediment and organisms were flooded with .02% rose bengal dye in 35% isopropyl alcohol. Material was left for at least 48 hours before sorting. (All algae fragments and animals were removed and sorted to species. Each species was identified, the number of individuals and biomass (0.01g) recorded, and preserved for permanent storage as described above.)

e. Subtidal Algae. Algae were sorted to species and treated as described above.

f. Subtidal Cores. Organisms were dyed in 0.02% rose bengal in 35% isopropyl alcohol, sorted to species and treated as described above.

g. Sediment Samples. Samples for grain size analysis were dried at 80° C for 24 hours then passed through a series of seives into the following fractions: >0.065mm.; 0.065 to 0.125mm.; 0.125 to 0.5mm.; 0.5 to 1.0mm.; 1.0 to 2.0mm.; 2.0 to 4.0mm.; 4.0 to 64.0mm., and 64 to 256mm.

2.6 Taxonomy

Where possible organisms were identified to the species level. Some groups (i.e. Oligocheates, Nemerteans) are not well known and were identified to higher taxonomic levels. Some individuals were juveniles and not identifiable to species. The references used to identify species are listed in the bibliography.

2.7 Data Processing

Data for each species taken by each collection method were coded using the NOAA National Oceanographic Documentation Center (NODC) format. Data were stored on computer tape and are available from the NOAA Environmental Data and Information Service data library.

2.8 Data Manipulation

For this report all data on numbers of individuals (invertebrates) and biomass per species are given on the basis of $0.25m^2$. That is data from various collection methods (except data from live seives) have been combined to reconstruct a $0.25m^2$ area by 15cm. deep. Standard deviations were calculated on the original sample size and multiplied to bring up to $0.25m^2$. Standard deviation from the various collection methods expressed as $0.25m^2$ were then added together.

Live seive data were not recombined and were treated separately.

2.9 Dominance

In the description of the community groups at each site only dominant species were used. These data are reported in Tables 9 through 14. A definition of dominance that included the majority of species that appeared important in community structure was chosen. The definition took into account both numbers of individuals and total biomass for the species. Basically for each stratum the species that had either 5% or more of the total mean number of individuals per $0.25m^2$ or 5% or more of the total mean biomass per $0.25m^2$ were chosen as dominant species for that stratum. The following qualifications were applied. Algae were treated as a separate group. Those algae that had 5% or more of the mean total biomass per stratum were labelled dominant. With the invertebrates, any species that had 10.0 gm.

or more mean biomass were designated as dominant and that weight removed from the list. This was to remove the bias of large molluscs weighed with their shell.

Using these criteria a weight for algae that was 5% of the mean total, a number that was 5% of the total mean number of individuals, and a weight for invertebrates that was 5% of the mean total weight (excluding those species of 10.0 gms. or more), were calculated for each stratum.

To insure that the definition of dominance included the whole community from +6' to -10m's a minimum value for weight and number was calculated. This was the mean of weight or numbers for all strata at that season. For each stratum the weight or numbers had to exceed the mean value for all strata for a species to be labelled dominant.

2.10 Similarity Index

To compare the similarity in species composition between sites the index of similarity (Odum, 1971) was used.

$$S = \frac{2\,C}{A+B}$$

where: S = index of similarity, usually expressed as a percent.

C = number of species in common between two sites.

A = total number of species in sample A.

B = total number of species in sample B.

2.11 Species Diversity

Species diversity was calculated using the Shannon index of general diversity:

$$H = \varepsilon \left(\frac{ni}{N}\right) \log \left(\frac{ni}{N}\right)$$

where: ni = number of individuals for each species

N = number of species

2.12 Coefficient of Variability

Numbers of replicates and sample size in this study were chosen to obtain information about community structure consistent with time and funds available. To examine the sampling effectiveness for each species the coefficient of variability (CV) was calculated. CV is determined by dividing the standard deviation by the mean (Ebelhart, 1978). Values of 0.5 to 0.8 are reported by Ebelhart for studies on benthos organisms.

2.13 Sources of Error

There are a number of sources of error that must be recognized in evaluation of results. They include:

a. Statistical Error. Sample effort was not designed for any specific species. Those with low population density, or those with patchy distribution had inadequate sample size or replicate number. The coefficient of variation was used as a measure for those species with inadequate sample effort.

b. Sample Methods. Sample methods used for the intertidal of cobble areas were difficult to apply in the field. The procedure required the removal from top, sides and bottoms of cobbles from five $0.01m^2$ areas. It was extremely difficult under field conditions to accurately determine boundaries of the five subsampled areas.

c. Taxonomy. Taxonomic effort in some groups was not as great as others. Species identification was not attempted with Nematodes or Oligochaetes. Only common Nemerteans were identified. As well, when juvenile or damaged specimens were encountered they were assigned to higher taxonomic categories. When species richness was examined these higher taxonomic categories were considered as single species. Considering higher taxa as single species resulted in an underestimation of species richness. Considering juveniles or fragments as single species resulted in an overestimation of species richness.

3. RESULTS

3.1 Site Description

3.1.1 West Beach, Sand Habitat

The location of the sand habitat is shown in Fig. 1. A detailed diagram of the site is given in Fig. 2. West Beach is an example of an accretion beach. Littoral drift sediment accumulates in this area resulting in a well established backshore berm. Wave action is moderate and sediment material moves frequently. The dominant visual feature of the intertidal area is sand with occasional patches of gravel. No algae are apparent offshore and when wave action is moderate, surf may be observed indicating an offshore bar. Beach slope is most gradual of the three habitats (Fig. 5). The sample area between +6' and -1' was over 52m during winter sampling. Beach slope with season changed dramatically. The width of the beach (+6' to -1') during summer sampling was only 22m (Fig. 5) which was less than one half the width during winter sampling.

Sediment composition data for the intertidal and subtidal areas are given in Table 2.

Subtidally the sediment of the sandy habitat was similar to the intertidal area. Basically the substrate type intertidally was sand that contained some silt at greater depths (Table 2). There was a seasonal difference noted however. During summer sampling when beach slope was steeper than in winter (Fig. 5), the -1.5m and -2.5m strata had patches of cobble in the sand (Table 2). These cobbles were approximately 20% of the cover at these depths. Cobbles had no attached flora or fauna. In winter when beach slope was more gradual, these cobble patches were not observed - the bottom was more uniform sand. The subtidal habitat at the sandy habitat was marked by an offshore sand bar. This bar was present during all sample periods between the -5.0m and -7.5m strata. In all cases the -5.0m sample was taken on the seaward side of the bar. The -1.5m and -2.5m samples were taken on the landward side of the bar.

The impact of wave action at the sand habitat were reduced at the -5.0m stratum. Wave ripples at this depth were much reduced compared with shallower strata and some silt was evident (Table 2).

Surface temperature and salinity values for West Beach are given in Table 4. Temperature ranged from 7.0 to 13.5°C through the year. Salinity ranged from 29.8 to 33.7 °/oo.

3.1.2 Partridge Point, Cobble Habitat

The location of the cobble habitat is shown in Figure 1. A detailed

Figure 5. Beach Slope, West Beach (Sand).

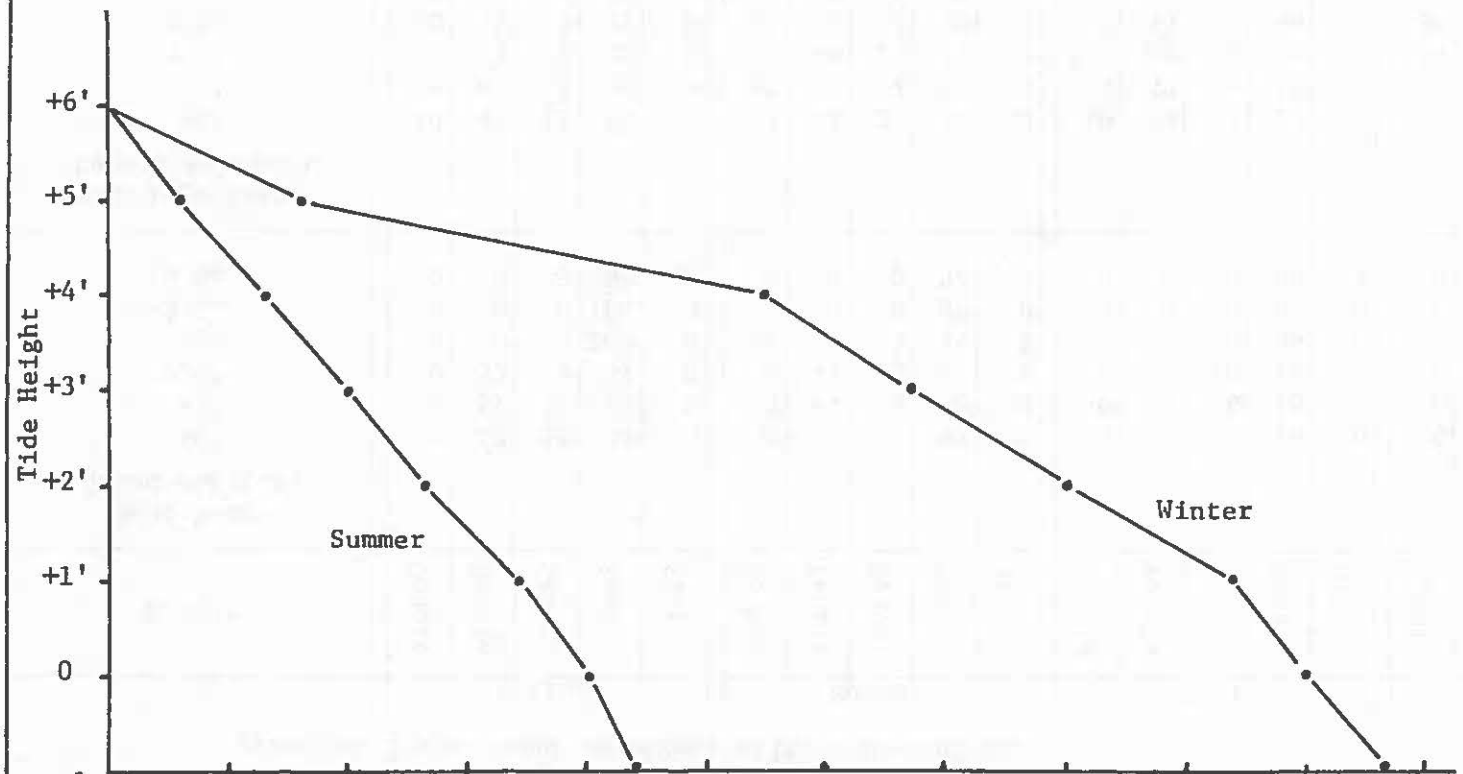


TABLE 2

Sediment composition at sampling sites. Values are percent of the sample in each size class of the Wentworth scale: cobbles, 64-256mm; pebbles 4-64mm; granules 2-4mm; sand .062-2mm; silt, .004-.062mm.

	Spring					Summer					Fall					Winter				
Height	Cobble	Pebble	Gravel	Sand	Silt	Cobble	Pebble	Gravel	Sand	Silt	Cobble	Pebble	Gravel	Sand	Silt	Cobble	Pebble	Gravel	Sand	Silt
West Beach (Sand Habitat)																				
+6'	0	49	11	34	0	0	4	1	95	0	0	5	1	94	0	0	19	4	77	0
+3'	0	57	11	28	0	0	64	6	30	0	0	76	6	18	0	0	24	5	70	0
0.0'	0	57	3	37	0	0	44	5	51	0	0	67	10	23	0	0	25	12	63	0
-1.5m	0	0	0	100	0	36	48	4	14	0	0	0	0	99	0	0	0	0	98	0
-5.0m	0	0	0	100	0	0	0	0	99	0	0	0	0	99	0	0	0	0	99	0
-10.0m	0	0	0	98	2	0	0	0	97	3	0	0	0	96	4	0	0	0	98	2
Partridge Point (Cobble Habitat)																				
+6'	20	48	11	16	0	0	44	25	30	0	10	59	7	23	0	0	33	28	39	0
+2'	0	68	6	22	0	30	37	7	26	0	24	50	6	19	0	0	71	7	22	0
0.0'	7	53	9	25	0	0	49	11	39	0	8.4	49	8	35	0	34	47	3	16	0
-1.5m	40	31	3	21	0	46	20	3	30	0	0	43	10	46	0	38	46	5	11	0
-5.0m	0	46	15	36	0	0	58	11	30	0	0	58	18	24	0	0	57	12	31	0
-10.0m	0	33	12	51	0	0	31	10	57	1	0	31	15	53	1	0	37	14	47	1
Ebey's Landing (Gravel Habitat)																				
+6'	0	59	9	28	0	0	38	10	52	0	0	33	2	65	0	0	67	12	20	0
+3'	0	57	15	23	0	0	79	11	11	0	0	55	10	35	0	0	70	11	19	0
0.0'	0	75	6	16	0	0	62	11	26	0	0	82	3	15	0	0	73	10	17	0
-1.5m	13	72	4	5	0	33	53	5	9	0	0	63	7	28	0	21	19	3	8	0
-5.0m	0	30	18	48	0	0	3	28	67	0	0	20	8	72	0	0	35	13	50	0
-10.0m	0	20	25	51	0	1	28	13	57	1	0	46	12	51	1.0	0	49	8	41	1

diagram of the site is given in Figure 3. Partridge Point is one of a series of erosional headlands along the west coast of Whidbey Island. Cobbles deposited by erosional activity form the dominant feature of the beach, although a gravel band is presented at the high tide area. Beach slope (Fig. 6) is relatively gradual, being between that of the sand and gravel habitats. The beach width between the +6' and -1' tide heights was 38m. Slope through the year was constant indicating little or no accumulation of sediment. In the mid to upper tide zone the cobbles are bare. In the lower tidal area however, cobbles are covered by algae. Data on algae cover through the year at the cobble habitat are given in Table 3. Cover was most dense at the 0' and -1' strata. Little algae was found above the +3' stratum. Algae cover was greater in summer than in the winter.

Beneath the cobble layer the sediments were relatively fine. Data on sediment composition is given in Table 2.

Subtidally the habitat at Partridge Point resembled the intertidal habitat. The -1.5m stratum was composed of cobbles (20-25cm. in diameter) with a pebble sand matrix between. Algae were common on the cobbles indicating the cobbles were relatively stable. In most areas Laminaria formed an overstory with red algae as common understory species. Patches of the eel grass Phyllospadix were also common at that depth.

The -2.5m stratum was similar to the -1.5m stratum with the exception that soft tubed polychaetes in the fines between the cobble indicated little movement of the sediment by wave action. From -2.5 to -5.0m pebble and sand began to predominate over cobbles. It was this area that Nereocystis became more frequent. From -5m to -10m depth a sand/pebble/silt substrate predominated (Table 2).

Surface temperature and salinity value for Partridge Point are given in Table 4. Temperature ranged from 7.0 to 13.0°C through the year. Salinity ranged from 30.1 to 32.7 °/oo.

3.1.3 Gravel Habitat, Ebey's Landing

The location of the sample site at Ebey's Landing is shown in Fig. 1. A detailed diagram of the site is given in Fig. 4. This gravel habitat is located in a littoral drift transport area. The dominant visual feature of the intertidal zone is gravel and patches of coarse sand. In the shallow subtidal area occasional patches of Nereocystis can be seen in summer and fall. The site is located in an area that is rip-rapped to protect the roadway from wave action. North and South of the road area the bank is stable and covered with vegetation. Beach slope at the gravel site (Fig. 7) is steeper than the sand or cobble habitats. This is characteristic of beaches where there is little erosion of backshore cliffs nor accumulations of littoral drift material. There is a change in beach slope with season. The width of the beach from the +6' to -1' tide marks was 16m in summer and 20m in winter. Apparently there is an accumulation of sediment in winter months. Sediment material in the inter-tidal area was mostly gravel (Table 2). There was little change in composition of sediment with tide height or

Figure 6. Beach Slope, Partridge Point (Cobble).

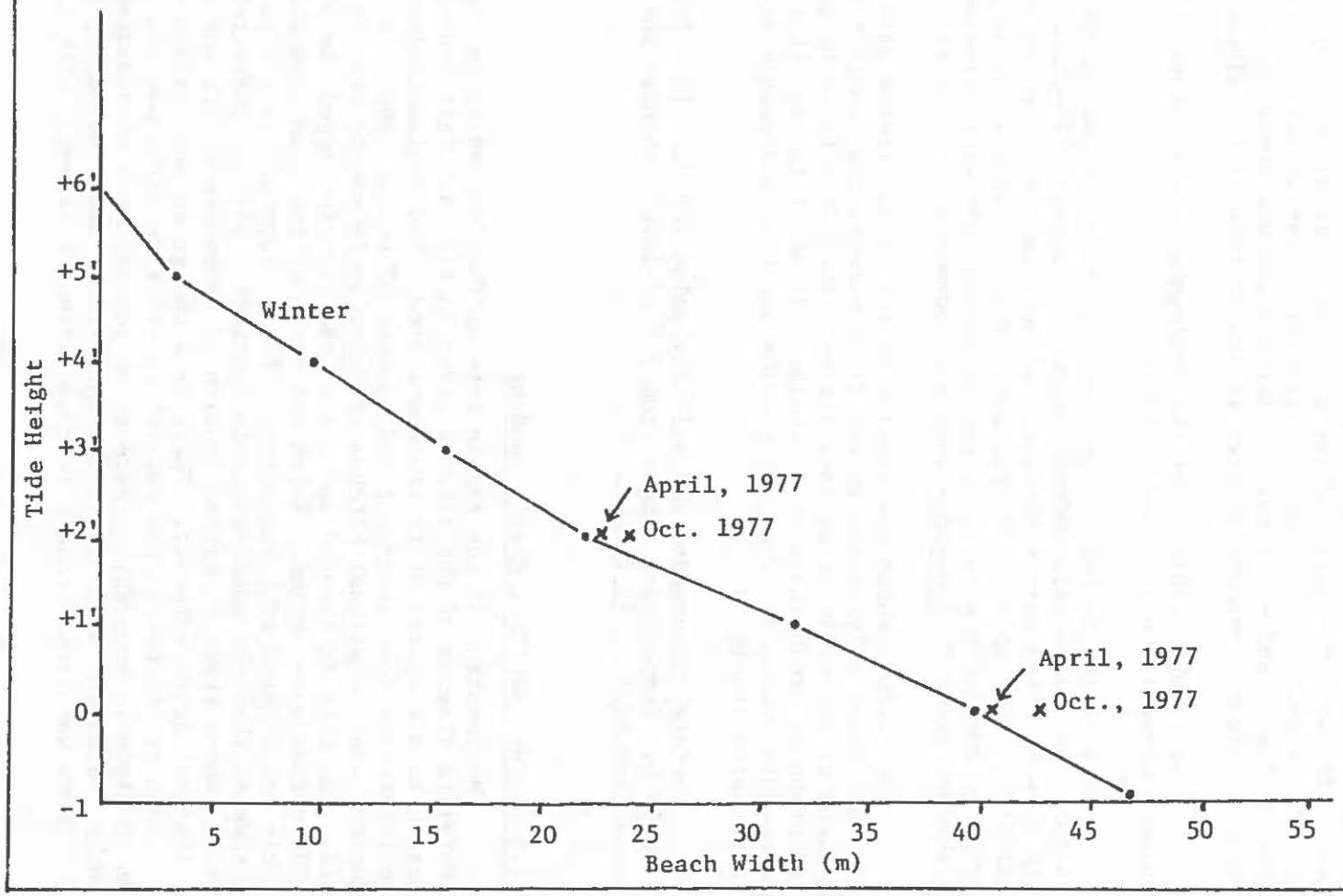


Table 3

Partridge Point Algae Cover (in percent). Strata are tide height in feet. Each value is the mean of eight observations of 0.25 M^2 areas. - indicates no observation was made.

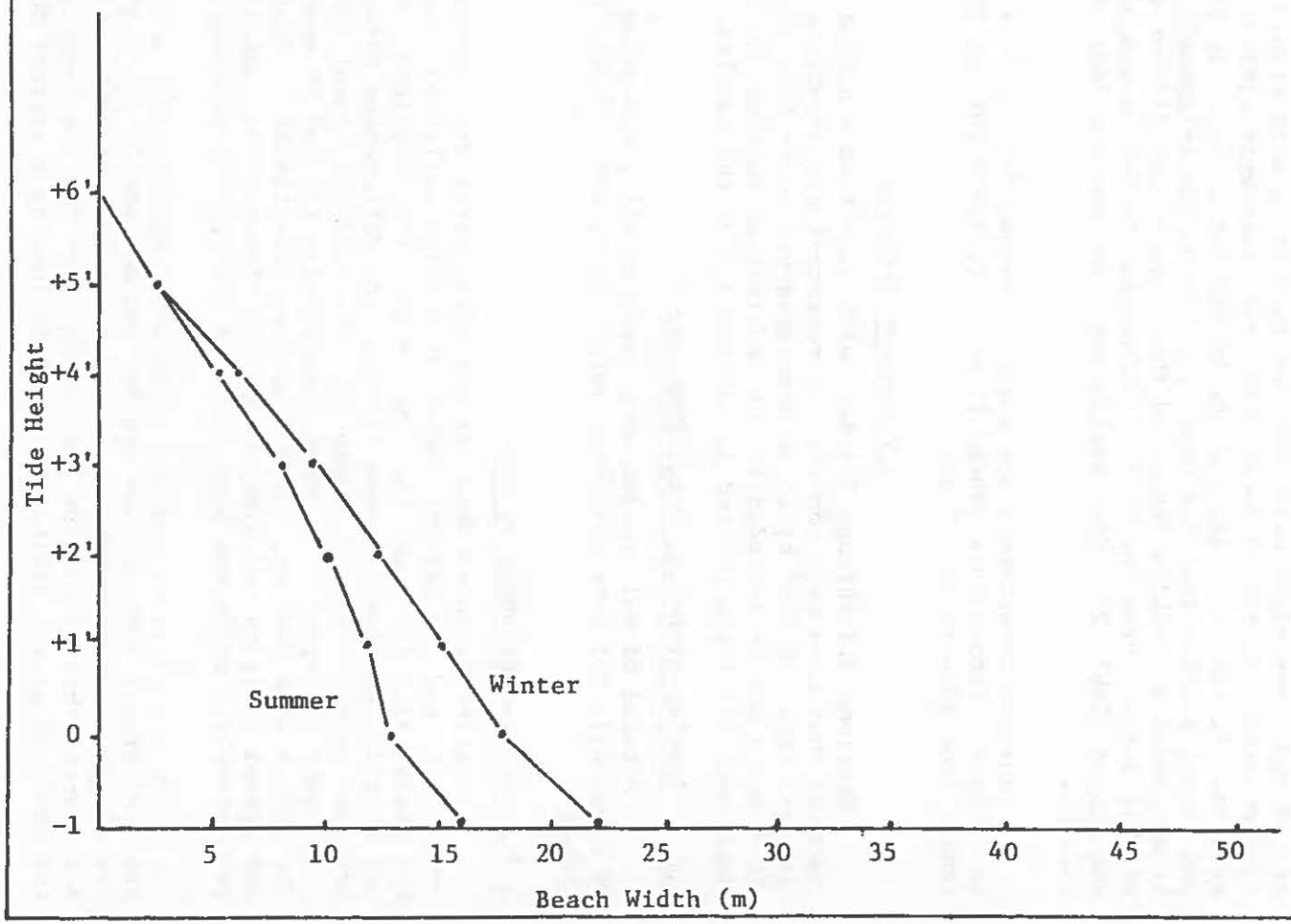
	Spring	Summer	Fall	Winter
+6.0	0	0	0	0
+5.0	-	0	-	0
+4.0	-	0	-	3
+3.0	-	0	-	1
+2.0	4	1	4	1
+1.0	-	18	-	2
0.0	67	76	68	5
-1.0	-	87	-	32

TABLE 4

Surface temperature (°C) and salinity (°/oo) for sites at times of sampling.

SITE	Spring		Summer		Fall		Winter	
	Temp.	Sal.	Temp.	Sal.	Temp.	Sal.	Temp.	Sal.
West Beach (Sand)								
Intertidal	9.0	29.8	13.5	29.1	9.0	33.7	7.0	32.1
Subtidal	8.5	30.7	12.5	--	8.5	32.3	8.0	30.4
Partridge Point (Cobble)								
Intertidal	9.0	30.4	13.5	30.1	9.0	31.2	7.0	31.6
Subtidal	9.0	30.7	12.0	--	8.0	32.1	7.0	32.7
Ebey's Landing (Gravel)								
Intertidal	9.0	30.4	13.0	31.1	9.0	33.1	7.0	32.1
Subtidal	8.5	31.0	12.0	--	9.0	31.4	8.0	30.4

Figure 7. Beach Slope, Ebey's Landing (Gravel).



season. During the summer sample period, a layer of cobbles was observed at the -1' stratum. These cobbles provided a substrata for the algae Enteromorpha linza.

Subtidally the habitat at the Ebey's Landing changed considerably from the gravel of the intertidal area (Table 2). At the 1.5m stratum cobbles of approximately 20cm. in size were common (approximately 90% cover). In the sample area observation indicated that wave action moved the cobbles. The only organisms observed were filamentous diatoms. Approximately 50m to the north of the sample site, more stable cobbles with up to ten species of red and brown algae were observed indicating more stable cobble conditions in that area. At the -2.5m stratum conditions were similar to the 1.5m stratum. At the -5.0m stratum the cobble bottom began to give way to sandy and gravel patches that had dense patches of the eelgrass Zostera marina. Algae growth on cobbles indicated that wave action did not turn over cobbles at this depth. From the -5 to -10m strata the bottom was almost totally sand and gravel (Table 2). Clam shells and worm castings indicated a stable infauna.

Surface temperature and salinity values for Ebey's Landing are given in Table 4. Temperature ranged from 7.0 to 9.0°C through the year. Salinity ranged from 30.4 to 32.1 $^{o}/_{oo}$.

3.2 Species Richness

Sections 3.2 through 3.4 deal with data from a number of collection methods that have been combined to represent all organisms 1mm in size and larger, from a 0.25m^2 by 15 cm deep quadrat. Data from a collection method that could not be included in the combination (0.25cm^2 by 30cm deep, 0.5 inch mesh size) are treated in section 3.5 of the results.

3.2.1 Species Richness, Sites Combined

A total of 641 species were taken at all these sites through the study. Of these 641, 251 were collected intertidally and 510 were collected subtidally.

3.2.2 Species Richness by Site

Species richness data for the three sites are given in Table 5. The cobble site had the highest number of species collected (401) followed by the gravel site (367) and the sand habitat (230 species). When intertidal and subtidal species richness is examined, differences between the sites are even more pronounced (Table 5). The sand and gravel habitats had relatively low species richness intertidally (58 and 46 species respectively). The cobble site however, had 201 species intertidally. Subtidally the cobble and gravel habitats had similar species richness (313 and 354 species respectively), while the sand site had 208 species subtidally.

On the basis of species richness it appears that intertidally the sand and gravel habitats are similar and subtidally the gravel and cobble are similar. An examination of similarity indices (Table 5) however, does not support this view. The similarity index for the intertidal areas of the sand and gravel habitats was 42% indicating a greater degree of difference

Table 5

Species richness, intertidally and subtidally. Similarity indices between sites. (Similarity index is per cent species in common.)

A. Total Species Project 641:

Total intertidal species	251
Total subtidal species	510

B. Total Species by Site:

Ebey's Landing	367
Partridge Point	401
West Beach	230

C. Intertidal and Subtidal Species by Site:

	Intertidal	Subtidal
Ebey's Landing	46	354
Partridge Point	201	313
West Beach	58	208

D. Similarity Indices (EL = Ebey's Landing, PP = Partridge Point, WB = West Beach):

	EL-WB	EL-PP	PP-WB
Total species	42	64	37
Intertidal species	42	30	22
Subtidal species	39	63	38

EL - gravel

WB - sand

PP - cobble

than similarity. Subtidally, similarity indices showed the sand and gravel sites to be dissimilar while the gravel and cobble habitats had a relatively higher measure of similarity (63%).

3.2.3 Species Richness by Strata

Tidal height and subtidal depth have an important impact on the distribution of flora and fauna. Figure 8 shows the mean number of species collected through the study at each stratum for each habitat. At the gravel and sand habitats species richness from the +6' to -1' strata was relatively low (15 species or less per strata). At the cobble site however, species richness increased rapidly with decrease in tide height reaching a peak of 106 species at the -1' stratum. Subtidally the species richness at these three sites all showed a different pattern. At the cobble site species richness decreased at the -1.5m stratum and although gradually increased with increasing depth at -10.0m was still lower than species richness at the -1.0' stratum. At the gravel site species richness increased rapidly with depth subtidally from the -1.5m to -10m strata. Species richness at the cobble and gravel sites were relatively similar from the -1.5m to -10m strata. This similarity corresponds to the index of similarity for the two habitats subtidally (65%, Table 5). The sand habitat showed yet another pattern subtidally. At the -1.5m and -2.5 strata species richness was relatively low at approximately 15 species per stratum. At the -5.0m stratum species richness increased to 45 species and continued to increase through the -10m stratum. However, species richness at these depths at the sand habitat was lower than the gravel and cobble habitats. The reason for the relatively low species richness at the -1.5m and -2.5m strata of the sand habitat is probably the unstable nature of the substrate. These strata were inside of the offshore bar and were subjected to relatively high wave action. As well, Fig. 5 indicates that the shallow subtidal strata would also show a seasonal shift in substrate.

3.2.4 Species Richness by Season

Table 6 gives the number of species collected intertidally at each site for each of the four seasons. For the gravel and sand habitats species richness in summer and fall sample periods was higher than spring or winter. At the cobble habitat species richness was greatest in the summer.

Species richness subtidally (Table 6) also showed variation with season. For the sand habitat species richness varied from 62 to 106 species; for the gravel habitat from 156 to 208 species, and for the cobble habitat from 162 to 211 species. However, there was no consistent pattern of variation with season at any of the habitats.

3.2.5 Species Richness by Taxonomic Groups - Subtidally and Intertidally

Over 90% of species collected in the study belong to one or another of twelve taxonomic groups (Table 7). These taxonomic groups include three taxonomic groups of algae and nine groups of animals. The total number of species of each taxonomic group for the study is given in Table 7. The dominant taxonomic group was the polychaete worms with 168 species collected. In successive order of dominance followed the red algae, amphipods, gastro-

Table 6

Species richness by season, all sites. In spring approximately 20 species of amphipods were not identified to species level.

	Spring	Summer	Fall	Winter	Mean
WB					
Int.	9	26	36	12	20.7
Sub.	62	117	97	106	95.5
EL					
Int.	19	24	34	18	23.7
Sub.	156	187	190	208	185.2
PP					
Int.	124	194	145	165	157.2
Sub.	161	211	162	177	177.7

Table 7

Part A. Species richness in major taxonomic groups (sites, seasons, strata combined). For each site the percent of total species, percent of all intertidal species and percent of all subtidal species is given. PP = Partridge Point, cobble; EL = Ebey's Landing, gravel; WB = West Beach, sand.

	Total # sp. collected	% at PP	% at EL	% at WB	Total Intertidal Species	% at PP	% at EL	% at WB	Total Subtidal Species	% at PP	% at EL	% at WB
Green Algae	18	67	61	28	8	100	0	0	16	100	69	31
Brown Algae	20	50	65	0	8	100	0	0	14	36	93	0
Red Algae	138	73	55	12	50	100	0	0	118	73	64	14
Polychaetes	168	69	73	49	71	93	30	23	140	66	85	56
Gastropods	40	70	50	23	18	94	6	0	19	96	100	47
Chitons	15	100	50	0	7	100	0	0	12	92	58	0
Bivalves	40	70	55	50	9	100	0	0	37	81	59	54
Barnacles	7	57	29	14	7	57	0	14	5	60	40	20
Isopods	24	63	50	46	15	87	33	20	17	47	66	59
Amphipods	59	68	21	66	21	100	38	50	56	64	70	59
Decapods	29	52	66	41	11	100	10	36	22	41	82	41
Echinoderms	12	50	67	33	5	83	0	0	9	33	89	44

pods, and bivalves. The percent of the total number of species in each taxonomic group collected at each habitat is also given in Table 7. For the polychaetes the gravel habitat had the highest representation with 73% of the total polychaetes collected. The cobble habitat had 69% while the sand habitat had 49%. For other taxonomic groups however, the highest representation was generally at the cobble habitat, followed by the gravel then sand habitat. In all taxonomic groups the sand habitat had the lowest representation.

The representation of taxonomic groups in the intertidal and subtidal portions of each habitat are given in Table 8. At the gravel site all taxonomic groups had richer representation subtidally than intertidally. At the sand site only barnacles had a greater intertidal representation.

At the cobble site, many taxonomic groups had more intertidal species than subtidal. Green algae, brown algae, barnacles, isopods, decapods, and echinoderms all had more species intertidally than subtidally. The remaining taxonomic groups at the cobble habitat had greater subtidal representation.

3.3 Numbers of Individuals and Biomass

The patterns of distribution of numbers of species with site, strata, and season have been examined above. To determine if total numbers of individuals and biomass (wet weight) followed a similar pattern, the mean number of individuals and the mean biomass per $0.25m^2$ for each stratum and site were plotted (Fig. 9 and 10). In this analysis keep in mind that algae are represented only by biomass, animals by numbers of individuals and biomass.

3.3.1 Numbers of Individuals

Figure 9 shows that intertidally there was a wide variability in numbers of individuals per $0.25m^2$. The cobble and gravel sites were more similar particularly at lower tide heights. The sand habitat had relatively low numbers of individuals throughout the intertidal zone. These patterns corresponded reasonably well with those of the distribution of species with tide height (Fig. 8).

For the cobble site the curve of mean number of individuals at each stratum (Fig. 9) shows that the greatest numbers of individuals is at the 0.0' and -1.0' strata. For the gravel site, however, the curve of species richness with strata (Fig. 8) does not correspond to the curve of numbers of individuals with strata (Fig. 9). At the gravel site numbers of species increased from the low intertidal to the subtidal but numbers of individuals decreased from the low intertidal to the subtidal. This difference is due almost solely to the distribution of the amphipod Paramoera mohri that occurred in large numbers at low intertidal strata at the gravel site.

At the sand habitat the mean number of individuals increased with

Table 8

Species richness in major taxonomic groups for each site. Given are total number of species per site and per cent intertidal and subtidal.

	Sand (West Beach)			Cobble (Part.Pt.)			Gravel (Ebey's Lnd)		
	Total Species	% Subtidal	% Intertidal	Total Species	% Subtidal	% Intertidal	Total Species	% Subtidal	% Intertidal
Total Species	199	93	30	400	76	57	354	98	12
Green Algae	5	100	0	12	67	75	11	100	0
Brown Algae	0	0	0	10	50	80	13	100	0
Red Algae	16	100	0	111	78	52	76	100	0
Polychaetes	83	94	20	116	79	57	123	97	23
Gastropods	9	100	0	28	64	61	20	95	5
Chitons	0	0	0	15	73	47	7	100	0
Bivalves	20	100	0	28	93	36	22	100	0
Barnacles	1	0	100	4	75	100	2	100	0
Isopods	11	91	28	15	53	87	12	91	41
Amphipods	39	85	28	40	91	53	42	93	19
Decapods	12	74	34	15	60	77	19	95	5
Echinoderms	4	100	0	6	50	100	8	100	0

Figure 8. Mean Number of species per stratum.

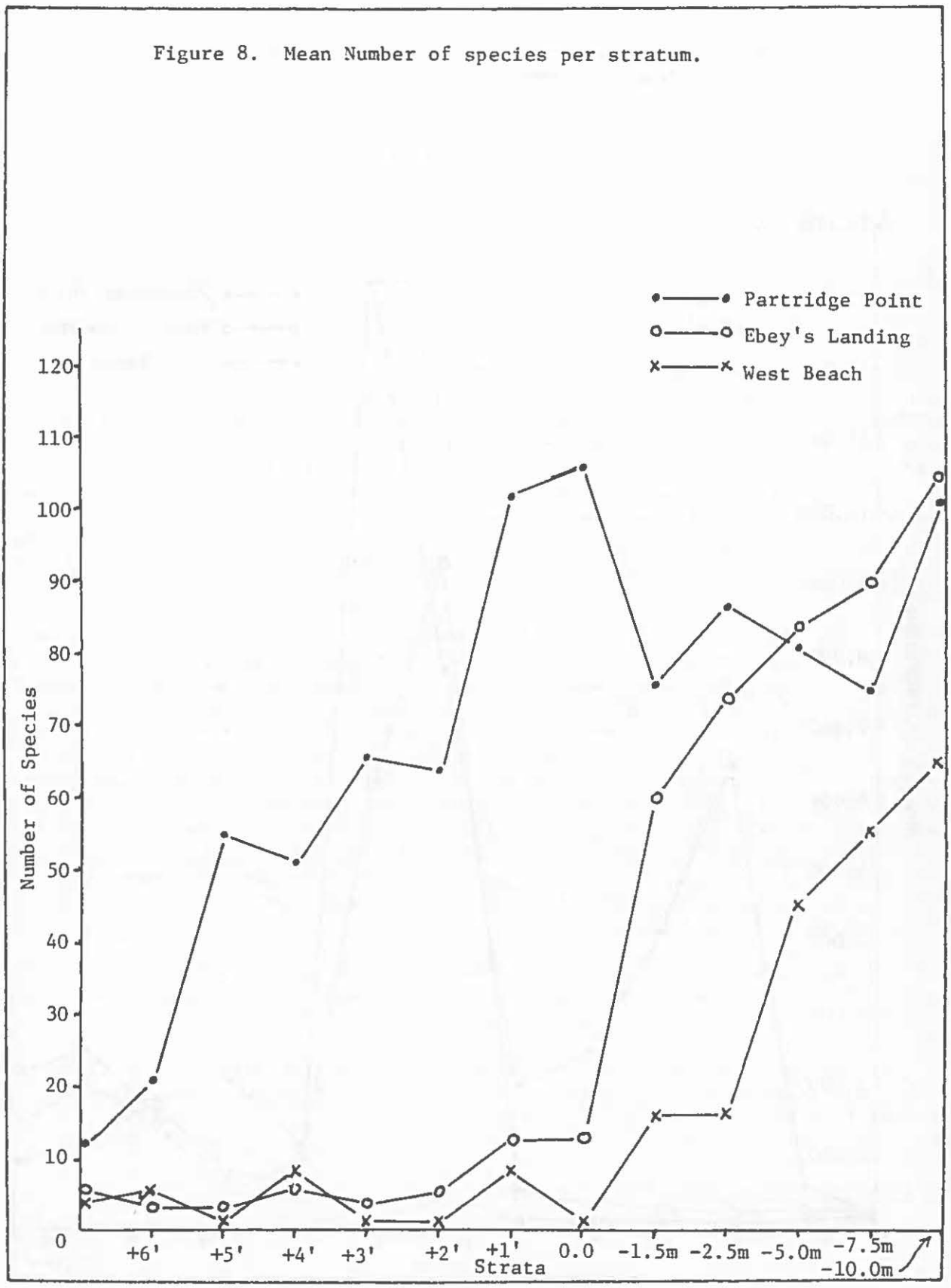
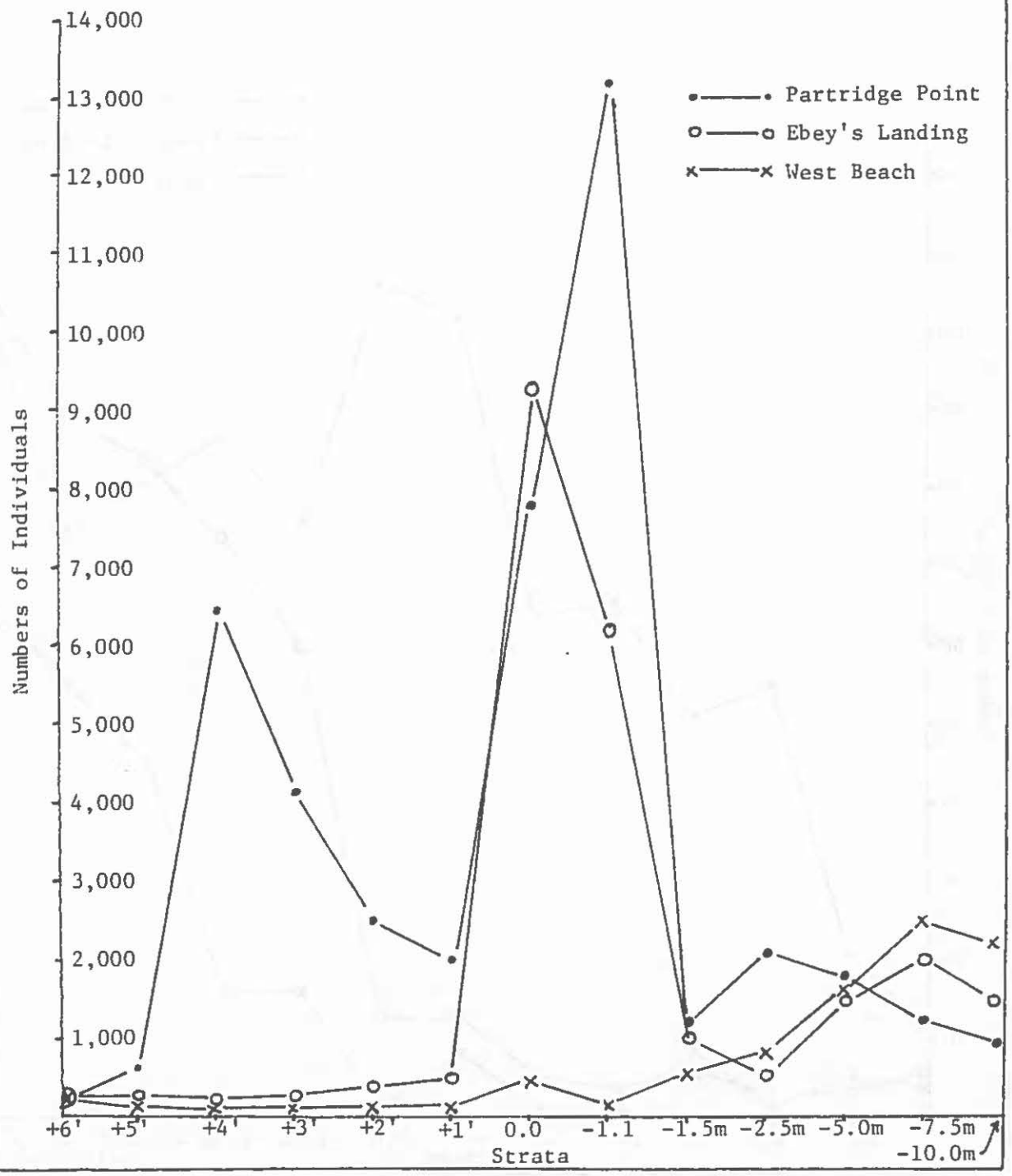


Figure 9. Mean Number of individuals per $0.25m^2$ (seasons combined).



depth and at the -7.5m and -10.0m strata the sand habitat had greater numbers of individuals per $0.25m^2$ than either the cobble or gravel habitats.

3.3.2 Biomass

Figure 10 shows the pattern of biomass for each stratum at the three habitats. There were marked differences between sites. The cobble site had much greater biomass intertidally and at shallow subtidal strata than the other habitats. The gravel and sand sites had similar biomass at intertidal strata. Subtidally the sand habitat had relatively low biomass at all strata. Comparing the cobble and gravel sites there was a difference in pattern of biomass in the shallow and deeper subtidal strata; the cobble site had a continual decrease in biomass with increasing depth. The gravel site however, (except for the -1.5m stratum) showed a continual increase in biomass with depth.

When the curves for biomass (Fig. 10) are compared with the curves for numbers of individuals (Fig. 9) a number of observations on the size of organisms can be inferred. Figure 9 shows that for both the cobble and gravel sites there was a large number of individuals at the 0.0' and -1.0' strata. However, the gravel site did not show a corresponding peak in biomass at the strata (Fig. 10). This means that the organisms at the gravel beach were smaller and those of the cobble beach relatively large. The sand habitat at the -7.5 and -10.0m strata showed a greater number of individuals per $0.25m^2$ than did the cobble or gravel sites. However, the sand site at these depths (Fig. 8) had lowest relative biomass. Again the individuals at the sand site at these depths must have been relatively small. Examination of data in Appendix 1 supports this inference.

3.3.3 Change in Numbers of Individuals and Biomass with Season

The pattern of change with season of the numbers of individuals and biomass per $0.25m^2$ is given in Figures 11 and 12. At each habitat the number of individuals was maximum in summer and minimum in fall and winter. The peaks in numbers of individuals however, was not reflected in peaks of biomass for the three sites (Fig. 12). The gravel site had a peak in biomass and numbers of individuals in summer. The cobble site however, had a peak in biomass in the fall, while the sand habitat had no evident peak in biomass with season.

3.4 Dominant Species

For a description of the importance of species in the community group at each habitat with change in season and depth only those species that were dominant at each site were considered. The criteria used to select dominant species are discussed in the methods.

3.4.1 Sand Habitat (West Beach) Dominant Species

The total number of dominant species in each taxonomic group is given for all strata in Table 9. Table 10 lists for each stratum and season the dominant species and their mean numbers and biomass per $0.25m^2$.

Figure 10. Mean Wet Weight Biomass per $0.25m^2$ (Seasons combined).

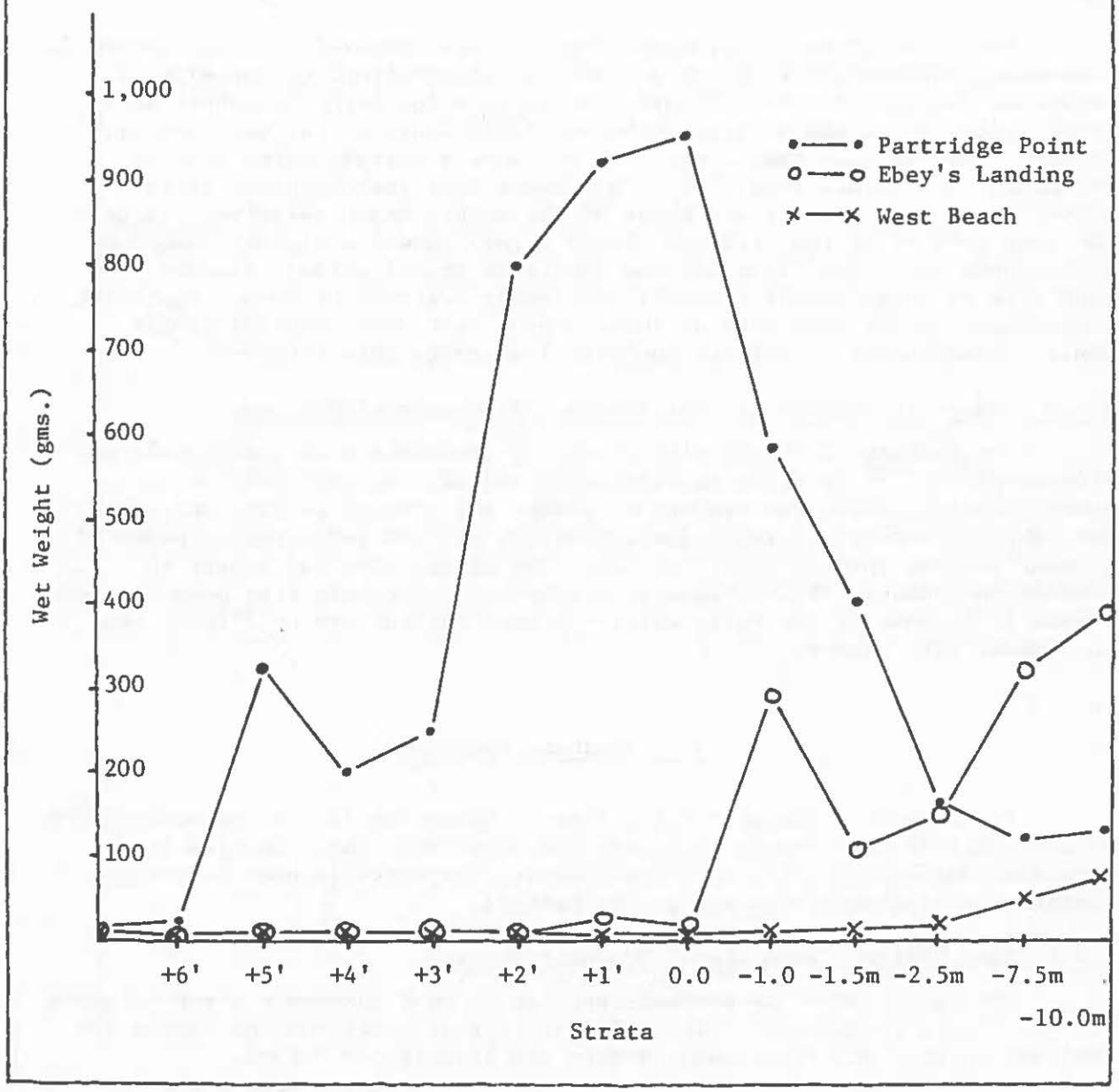


Figure 11. Mean Number of Individuals with Season. Data from +6.0, +3.0, 0.0, -1.5m, -5.0m, -10.0m combined.

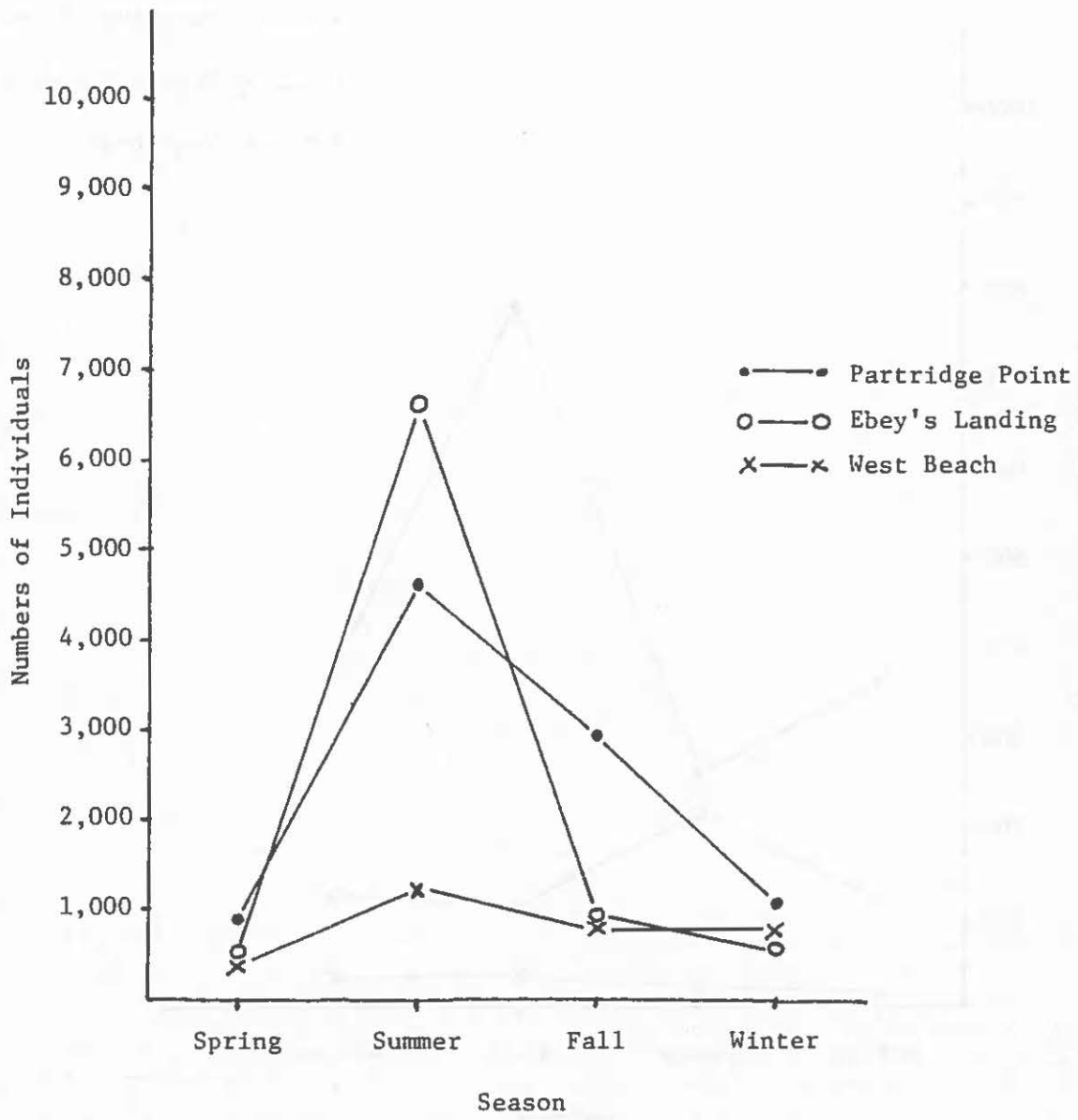


Figure 12. Mean Wet Weight Biomass with Season. +6.0, +3.0, 0.0, -1.5m, -5.0m and -10.0m strata combined.

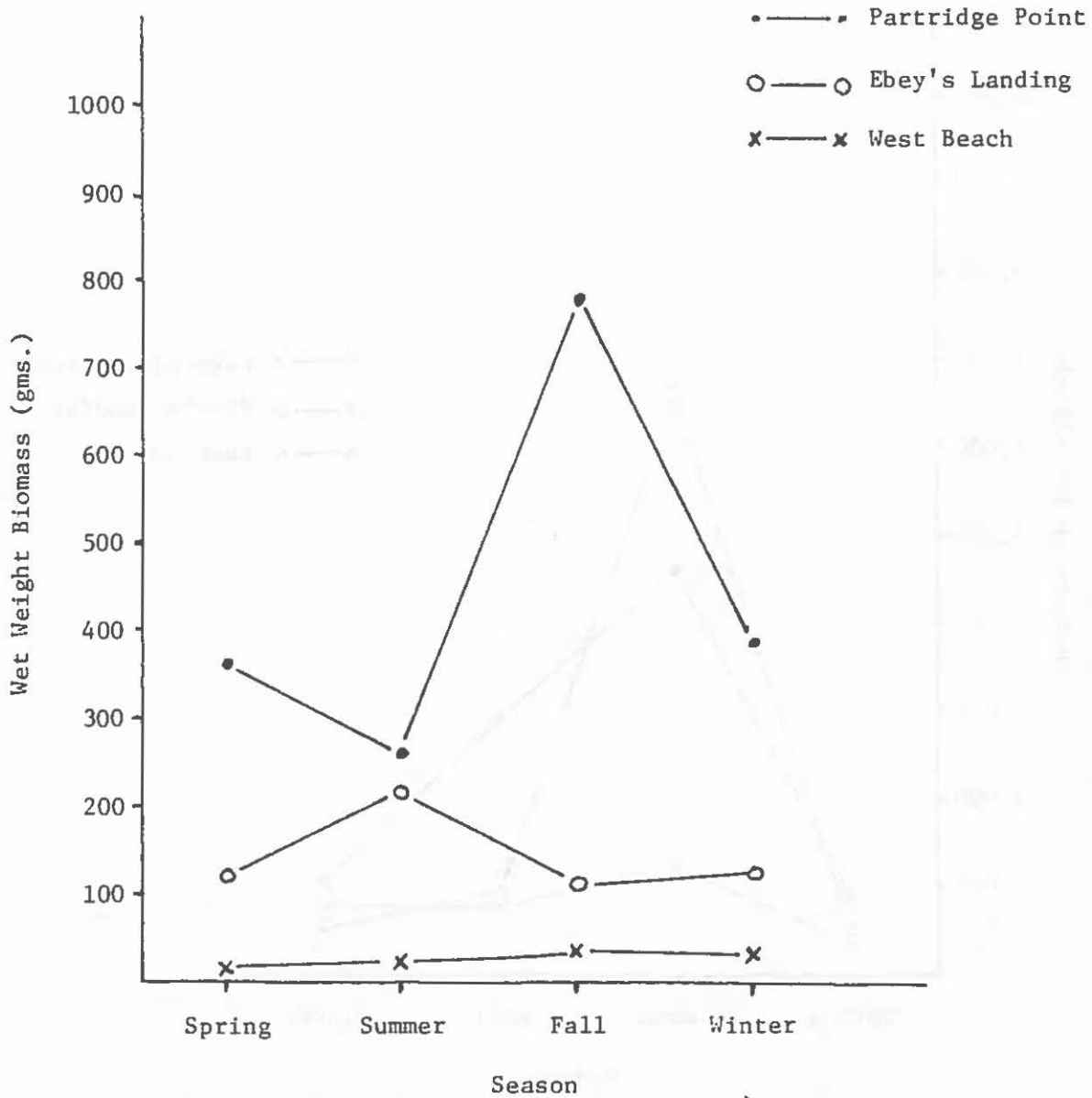


Table 9

Part A. Species richness of dominant species at each stratum. Sand site (West Beach). +6 to -1, tide height in feet. -1.5 to -10.0, depth below 0.0 tide in meters.- indicates no dominant species.

Part B. Mean species richness, mean number of individuals and mean biomass for all species at each stratum.

	STRATUM												
Taxonomic Group	+6	+5	+4	+3	+2	+1	0	-1	-1.5	-2.5	-5.0	-7.5	-10.0
PART A													
Green Algae	--	--	--	--	--	--	--	--	2	--	--	--	--
Brown Algae	--	--	--	--	--	--	--	--	--	--	--	--	--
Red Algae	--	--	--	--	--	--	--	--	--	--	2	3	--
Angiosperms	--	--	--	--	--	--	--	--	--	--	2	1	1
Nemertea	--	--	--	--	--	--	--	--	--	--	--	--	--
Nemetoda	--	--	--	--	--	--	--	--	--	--	--	--	--
Coelenterata	--	--	--	--	--	--	--	--	--	--	--	--	--
Polychaeta	--	--	--	--	--	--	4	--	4	3	7	4	15
Oligochaetes	--	--	--	--	--	--	--	--	--	--	--	--	--
Gastropods	--	--	--	--	--	--	--	--	--	--	--	--	2
Chitons	--	--	--	--	--	--	--	--	--	--	--	--	--
Bivalves	--	--	--	--	--	--	--	--	1	1	3	4	10
Tanaeids	--	--	--	--	--	--	--	--	1	1	1	1	2
Isopods	--	--	--	--	--	--	--	--	--	--	--	--	--
Amphipods	--	--	--	--	--	--	1	--	6	2	4	1	2
Barnacles	--	--	--	--	--	--	--	--	--	--	--	--	--
Decapods	--	--	--	--	--	--	--	--	1	--	--	--	1
Echinoderms	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 9 (continued)

PART B	STRATUM												
	+6	+5	+4	+3	+2	+1	0	-1	-1.5	-2.5	-5.0	-7.5	-10.0
Mean species Richness	5	6	1	7	2	0	8	2	21	23	46	57	64
Mean number of Individuals	12	21	2	31	6	0	241	13	459	795	1,793	3,131	2,205
Mean biomass	13	0	0	0	0	0	0.8	0	2.4	6.9	20	30	61

TABLE 10

List of Dominant Species - Sand Site (West Beach). Blanks indicate the species was not dominant at that season.

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Elevation +6.0', no dominant species								
Elevation +5.0', no dominant species								
Elevation +4.0', no dominant species								
Elevation +3.0', no dominant species								
Elevation +2.0', no dominant species								
Elevation +1.0', no dominant species								
Elevation 0.0', numbers and wet biomass (gms.) per $0.25m^2$								
Polychaetes								
Nereis sp.			1.0	.65				
Nereis vexillosa					1.0	0.47		
Lumbrinris sp.							1.0	0.31
Protodorvillea gracilis					129.0	0.02		
Amphipoda								
Paramoera sp.					660.0	1.45		
Elevation -1.0', no dominant species								
Elevation -1.5m, numbers and wet biomass (gms.) per $0.25m^2$								
Green Algae								
Enteromorpha sp.				0.06				
Ulva lactuca				0.10				
Polychaeta								
Phyllodoce medipapill	1.7	0.30						
Glycinde picta	3.3	0.98						

Table 10 (continued)

Page 2

Elevation -1.5m (cont'd), numbers and wet biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Polychaetta (con't)								
Lumbrineris zonata	3.3	0.98						
Nephtys caeca					1.7	0.50		
Bivalves								
Psephidia lordi					85.0	1.06		
Tanaied								
Diastylopsis sp.	40.0	0.17			126.7	0.67		
Amphipods								
Paraphoxus sp.	156.7	0.98						
Paraphoxus spinosus	156.7	0.25						
Atylus sp.			96.7	0.23				
Anisogammarus pugettensis			58.3	0.55				
Ampelisca sp.					236.7	0.85		
Phoxocephalidae					296.7	0.96	250.0	0.56
Decapods								
Cragnon sp.							13.0	0.26

Elevation -2.5m, numbers and wet biomass (gms.) per $0.25m^2$

Polychaeta	not sampled				not sampled			
Scoloplos pugettensis							13.3	
Nephtys ferruginea			1.67	17.75				
Paronis lyra			106.7	0.18				

Table 10 (continued)

Page 3

Elevation -2.5m (cont'd), numbers and wet biomass (gms.) per 0.25m^2	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Bivalves								
Psephidia lordi			126.7	1.18				
Tanaidacea								
Leptostylis sp.			70.0	0.07				
Amphipoda								
Diastylopsis sp.	90.0	0.14						
Phoxocephalidae	450.0	3.01	543.0	1.23				
Elevation -5.0m, numbers and wet biomass (gms.) per 0.25m^2								
Red Algae								
Porphyra sp.				0.33				
Hymenena sp.				0.26				
Angiosperm								
Zostera marina				1.59				0.42
Phyllospadix scouleri				0.56				
Polychaeta								
Nephtys caeca			1.7	4.08	5.0	5.49		
Nephtys ferruginea			1.7	6.65				
Onuphis sp.			16.7	2.24	43.3	11.11		
Scoloplos pugettensis					28.3	1.22	21.7	2.29
Glycinde picta	6.7	0.31						
Spiophanes bombyx	26.7	0.36						
Malacoceros glutaeus					141.7	0.18		

Table 10 (continued)

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Elevation -5.0m, (cont'd.), numbers and wet biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Bivalves								
Tellina sp.					25.0	0.66		
Tellina modesta	3.3	0.23					50.0	1.12
Psephidia lordi	23.3	0.35	1,131.7	9.76	836.7	10.79	161.7	2.03
Tanaeid								
Leptochelia sarvignyi					193.3	0.13		
Amphipoda								
Ampelisca agassizi							163.3	1.64
Ampelisca sp.					110.0	0.31		
Phoxocephalidae			536.7	1.14	145.0	0.16	598.3	0.96
Paraphoxus sp.	401.7	2.08						

Elevation -7.5m, numbers and wet biomass (gms.) per $0.25m^2$

Red Algae	not sampled				not sampled			
Ulothrix sp.				0.05				
Neogardhiella baileyi				0.25				
Plocamium sp.				0.06				
Angiosperms								
Zostera marina				0.34				
Polychaeta								
Onuphis sp.			33.3	12.84			50.0	5.96
Scoloplos armigra			6.7	1.18				
Scoloplos pugettensis			10.0	0.53			71.7	1.52
Orbina felix			5.0	2.19				

Table 10 (continued)

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Elevation -7.5m, (cont'd.), numbers and wet biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
	not sampled				not sampled			
Bivalvia								
Mysella tumida							165.10	0.80
Yoldia myalis			1.7	0.55				
Psephidia lordi			2,416.7	13.98			901.6	9.83
Tellina modesta			43.3	0.64				
Tanaidacea								
Leptochelia savignyi							296.7	0.16
Amphipoda								
Phoxocephalidae			578.3	0.69			525.0	0.58

Elevation -10.0m, numbers and wet biomass (gms.) per $0.25m^2$

Angiosperms								
Zostera marina								0.94
Polychaeta								
Pholoe minuta	48.3	0.57	120.0	1.27				
Phyllodoce sp.							11.7	2.24
Onuphis conchylega	1.7	1.35						
Onuphis elegans	28.3	0.83						
Onuphis sp.			23.3	3.18	43.3	19.83	26.7	6.23
Nephtys longosetosa			8.3	0.39				
Glycinde picta			45.0	0.64				
Scoloplos armigera	33.3	2.35	58.3	0.95			108.3	0.99
Scoloplos pugettensis			35.0	0.58	76.7	1.01		
Lumbrineris sp.					30.0	1.66		
Orbinia michalelensi	1.7	0.60			6.7	36.35		

Table 10 (continued)

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Elevation -10.0m (cont'd.), numbers and wet biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
Polychaeta (cont'd.)	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Laonice cirrata					18.3	0.87	11.7	1.31
Orbinia felix			51.7	0.04				
Prionospio cirrifera			51.7	0.04				
Chone sp.							8.3	2.38
Gastropoda								
Polinices lewisii							1.7	2.11
Gastroptenon sp.					6.7	0.96		
Bivalves								
Nucula tenuis			51.7	0.71				
Axinipsida serricata			51.7	1.44				
Mysella tumida	10.33	0.29	201.7	0.64				
Yoldia scissurata					23.3	2.51	6.7	1.68
Psephidia lordi	273.3	2.13	2,131.7	15.04	886.7	10.23	370.0	3.58
Solen sicarius					15.0	1.21		
Clinocardium sp.juv.			61.7	0.22				
Tellina modesta			45.0	0.49				
Macoma elimata					1.7	2.06		
Tanaidacea								
Leptochelia sp.			65.0	0.04				
Leptochelia savignyi							85.0	0.04
Amphipoda								
Paraphoxus sp.	125.0	0.31						
Phoxocephalidae			738.3	1.01	193.3	0.14	235.10	0.17
Echinodermata								
Ophiuroidea			413.0	75.59	158.3	33.87		

Of the species dominant at the sand habitat virtually none were intertidal. Table 12 shows that only amphipods and Polychaetes had intertidal representation at the 0.0' stratum. Of the four intertidal polychaete species three had subtidal distribution. No seasonal pattern of numbers or biomass was evident with the intertidal polychaetes.

The one amphipod species was Paramoera mohri. This is the species that had an intensive dominant distribution at the gravel site intertidally. Its distribution intertidally at the sand site is relatively minor.

Subtidally at the sand site many taxonomic groups had no dominant species. Brown algae, Nematodes, Nemerteans, Coelenterates, Chitons, Barnacles and Echinoderms had no species that were dominant organisms. Subtidally other taxonomic groups had dominant species but the number were reduced compared to the subtidal cobble and gravel areas.

Algae were not commonly distributed at the sand site. Green algae were found as dominant only at the -1.5m stratum. Red algae were present at the -5.0m and -7.5m strata, but were dominant only during the summer.

Polychaetes were the most widely represented community group subtidally. One species, Scoloplos pugettensis, was found at all strata from -2.5m to -10m. It was dominant at all seasons most of the time and showed peak in numbers and biomass during the fall.

Subtidal zonation of the remaining species of polychaetes at the sand site was evident. Onuphis sp. was dominant only at deeper strata (-5.0m to -10.0m). In general the species dominant at shallower subtidal strata tended to not occur at deeper strata. A seasonal pattern for the remaining polychaete species was noted that was similar to that of Scoloplos pugettensis, that is a greater number of individuals and biomass in fall.

Bivalves were represented as dominant fauna at the sand site at all of the subtidal strata. One species in particular was well represented. The clam Psephidia lordi was dominant at all subtidal strata. This species was most common at deeper strata with over 2,000 individuals per $0.25m^2$ at the -5.0m and -10.0m strata. This small clam showed seasonal changes, being most common in summer.

The number of dominant bivalves became more numerous with increasing depths with 10 species at the -10.0m stratum. There was no evident pattern of zonation. No seasonal pattern of occurance of species, numbers of individuals, or biomass was evident.

Amphipod species were well represented as dominant species at the sand site. As at the gravel site (Table 14) the species group Phoxocephalidae was dominant at all subtidal strata. This group was more frequent at lower subtidal strata with over 500 individuals per $0.25m^2$ from -5.0m to -10.0m. No clear pattern of distribution of numbers of individuals or biomass with season was evident.

3.4.2 Cobble Habitat (Partridge Point) Dominant Species

The total number of dominant species in each community group is given in Table 11. Table 12 lists for each stratum and season the dominant species with their mean numbers and biomass per $0.25m^2$.

Dominant species at the cobble habitat were well represented both intertidally and subtidally. Species richness was lowest in the high intertidal area. At the +6' stratum (which was an unstable gravel substrate) only one species was dominant. At the +5.0' stratum, where the cobble substrate started five dominant species were noted. Of the species found at the +0.5' stratum all but one (Paramoera mohri) had greater density and biomass per $0.25m^2$ at lower strata. At the +4.0' stratum 20 dominant species were noted. Species number in general increased with decrease in tide height with a maximum of 50 dominant species at the 0.0 stratum. Of those dominant species at the +4.0' stratum, one half of them were species found only in the intertidal area, that is there were no individuals found below the -1.0' stratum. At the 0.0' stratum, 32% of the species were ones found only in the intertidal area.

Green algae were relatively uncommon as dominant species at the cobble habitat. These were noted only at the 0.0' stratum. Green algae species were most frequent as dominant in the fall, although there was no clear pattern of seasonal change in biomass.

Brown algae were dominant species at all strata from -1' to -10m. Species were most frequent at the -1.5m stratum. Some zonation was evident in the distribution of brown algae. Egregia Fucus and Alaria were found in the upper part of the range of brown algae, while species of Laminaria were found in dominant only subtidally from -1.5 to -7.5m in depths. Brown algae biomass was greater in fall and winter than spring or summer.

Red algae as dominant species were well represented at the cobble habitat over the range of +1.0' to -10.0m. Maximum species number was at the -1.0' stratum. Of the twelve species dominant in the intertidal area all but three were also distributed subtidally. Two species were common over the range of the red algae. Halymenia schizomenioides was found from the 1.0+ to -1.5m strata with maximum biomass at the 0.0' stratum. Odonthalia floccosa was found from the -1.0' to -5.0 strata with maximum biomass at -1.5 stratum. Seasonal changes in biomass differs between the two species. For H. schizomenioides maximum biomass was in fall while for O. floccosa it was in spring.

Other than the distribution of the two species discussed above no zonation of red algae species was evident over the range of distribution. For the most part, species dominant at one stratum were not dominant at other strata. For dominant red algae in the upper part of their range (+1.0' to -1.0') biomass was maximum in fall and winter. Lower in the range there was no apparent pattern of seasonal change in biomass.

Nemertean worms were dominant only at the 0.0 stratum, while Nematode worms occurred as dominant forms at most intertidal strata.

Table 11

Part A. Species richness of dominant species at each stratum. Cobble site (Partridge Point). +6 to -1, tide height in feet. -1.5 to -10.0 depth below 0.0 tide in meters.

Part B. Mean species richness, mean number of individuals and mean biomass for all species at each stratum.

	STRATUM												
Taxonomic Group	+6	+5	+4	+3	+2	+1	0	-1	-1.5	-2.5	-5.0	-7.5	-10.0
PART A													
Green Algae	--	--	--	--	--	--	5	--	--	--	--	--	--
Brown Algae	--	--	2	--	--	1	2	2	5	4	1	1	1
Red Algae	--	--	--	1	--	2	6	8	4	5	4	5	4
Angiosperms	--	--	--	--	--	--	--	--	1	1	--	--	--
Nemertea	--	--	--	--	--	--	1	--	--	--	--	--	--
Nemetoda	--	1	1	--	1	--	1	--	--	--	--	--	--
Coelenterata	--	--	--	1	1	1	1	1	--	--	--	--	--
Polychaeta	--	--	2	3	8	6	11	11	8	5	5	--	1
Oligochaete	--	1	1	1	1	1	1	1	1	1	1	--	--
Gastropods	1	2	8	7	7	3	8	3	1	--	1	1	2
Chitons	--	--	--	--	--	--	1	1	--	--	--	--	--
Bivalves	--	--	--	--	--	--	2	--	--	2	6	4	11
Tanaeids	--	--	--	--	--	--	--	--	--	--	--	--	1
Isopods	--	--	--	--	1	1	2	1	1	--	--	--	--
Amphipods	--	1	--	--	1	--	4	3	--	--	--	--	--
Barnacles	--	--	3	2	3	--	1	--	--	--	1	--	2
Decapods	--	--	1	1	1	3	3	4	2	2	1	--	1
Echinoderms	--	--	2	--	2	1	1	--	--	--	2	--	2

Table 11 (continued)

	STRATUM												
	+6	+5	+4	+3	+2	+1	0	-1	-1.5	-2.5	-5.0	-7.5	-10.0
PART B													
Mean species richness	13	20	56	51	66	65	102	107	77	88	82	78	101
Mean number of individuals	31	658	6,404	4,128	2,623	1,952	7,739	13,252	1,126	2,095	1,805	1,191	962
Mean biomass (gms)	0.7	16	328	199	243	807	1,239	1,406	571	407	140	126	128

TABLE 12

List of Dominant Species - Cobble Site (Partridge Point). Blank indicates the species was not dominant during that season.

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Elevation +6.0', numbers and biomass (gms.) per $0.25m^2$								
Gastropods	not sampled				not sampled			
Littorina sitkana			1.2	1.03				
Elevation +5.0, numbers and biomass (gms.) per $0.25m^2$								
Nematoda	not sampled		3.3	1.67	not sampled			
Oligochaeta			245.0	0.03				
Gastropods								
Littorina sitkana			86.7	13.04			30.0	4.84
Littorina scutulata			38.3	2.56			21.7	1.81
Amphipods								
Paramoera mohri			260.0	0.31				
Elevation +4.0', numbers and biomass (gms.) per $0.25m^2$								
Brown Algae	not sampled				not sampled			
Laminaria sp.								46.36
Cymathere triplicata								3.48
Nematoda			273.3	0.12				
Polychaeta								
Onuphis sp.			400.00	2.23			161.7	1.24
Notomastus sp.							1.7	1.17
Oligochaeta			275.0	0.07				
Gastropods								
Collisella pelta			41.7	2.67				
Collisella digitalis							8.3	1.92

Table 12 (continued)

Page 2

Elevation +4.0' (cont'd.), numbers and biomass (gm.s) per $0.25m^2$

Gastropods (cont'd.)	Spring #	Spring Wt.	Summer #	Summer Wt.	Fall #	Fall Wt.	Winter #	Winter Wt.
	not sampled				not sampled			
Notoacmea scutum							8.3	5.25
Notoacmea persona							160.0	23.05
Littorina sitkana			591.7	60.34			903.0	82.11
Littorina scutulata			120.0	7.76			888.0	61.17
Nucella lamellosa			10.0	5.59			8.3	28.42
Nucella emarginata			1.7	2.90			8.3	1.08
Barnacles								
Chthamalus dalli			685.0	9.00			510.0	4.85
Balanus glandula			2450.0	15,175.0			3570.0	235.46
Balanus crenatus								
Decapoda								
Hemigrapsus nudus			5.0	9.13			38.3	2.29
Echinodermata								
Leptasterias hexactis			8.3	3.67				
Leptosynapta clarki								

Elevation +3.0', numbers and biomass (gms.) per $0.25m^2$

Red Algae	not sampled				not sampled			
Rhodomela larix				11.41				
Coelenterata or Anthozoa			10.0					
Anthopleura elegantissima			18.3	11.51			18.3	6.05
Polychaeta								
Onuphis sp.			571.7	5.96			396.7	3.04
Protodorvillea gracilis							406.7	0.11

Table 12 (continued)

Page 3

Elevation +3.0' (cont'd.), numbers and biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Polychaeta (cont'd.)	not sampled				not sampled			
Thelepus crispus			5.0	5.23				
Oligochaeta			351.7	0.11				
Gastropods								
Notoacmea persona			66.7	15.00			81.7	6.23
Acmaeidae juv.							93.3	1.51
Collisella digitalis							33.3	3.58
Littorina sitkana			211.7	20.74			1110.0	89.96
Littorina scutulata			100.0	4.71			815.0	45.71
Nucella emarginata			6.7	2.81				
Nucella lamellosa								
Barnacles								
Balanus glandula							828.3	16.13
Chthamalus dalli							1286.7	21.78
Decapoda								
Hemigrapsus nudus			1.7	5.63			56.7	98.3

Elevation +2.0', numbers and biomass (gms.) per $0.25m^2$

Coelenterata								
Anthopleura elegantissima	6.2	13.63	12.5	6.25	83.7	59.63	77.5	41.19
Nematoda	96.25	0.13			255.0	0.33		
Polychaeta								
Hemipodus borealis			57.5	1.78				
Onuphis sp.			561.2	5.29	370.0	3.80	408.7	2184.0
Lumbrineris sp.					7.5	3.55		
Lumbrineris zonata			8.7	5.16				

Table 12 (continued)

Page 4

Elevation +2.0', numbers and biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Polychaeta (cont'd.)								
Typosyllis sp.							123.75	0.15
Protodorvillea gracilis					210.0	0.04	235.0	0.08
Cirratulus cirratus			11.2	2.30	8.7	3.90	16.2	1.99
Thelepus crispus							6.2	4.63
Oligochaeta	88.7	0.03	568.7	0.13	530.0	0.10	318.7	0.07
Gastropods								
Notoacmea scutum					202.5	149.98	20.0	5.30
Notoacmea persona	125.0	117.56	37.5	32.88			31.25	8.75
Collisella pelta	137.5	3.88						
Littorina sitkana	271.25	78.52					116.2	27.42
Nucella lamellosa	21.2	28.59	8.7	24.31			7.5	17.15
Nucella emarginata							6.2	22.50
Searlesia dira			1.25	4.92				
Barnacle								
Chthamalus dalli			225.0	2.56				
Balanus glandula			2668.7	16.63				
Balanus cariosus			56.2	3.13				
Isopoda								
Gnorimosphaeroma orgeonensis			183.7	2.19				
Amphipoda								
Hyale sp.					133.7	1.38		
Decapoda								
Hemigrapsus nudus	3.7	12.58			26.25	117.98	40.0	74.36

Table 12 (continued)

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Elevation +2.0' (cont'd.), numbers and biomass (gms.) per $0.25m^2$	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Echinodermata								
Leptosynapta clarki								
Leptastarius hexatis	3.7	12.1			7.5	3.41		
Elevation +1.0', numbers and biomass (gms.) per $0.25m^2$								
Brown Algae	not sampled				not sampled			
Egregia menziesii								328.2
Red Algae								
Porphyra peforata				30.01				
Halymenia schizymenioides								42.81
Coelenterata								
Anthopleura elegantissima							66.7	116.50
Polychaeta								
Halosydna brevisetosa							8.3	10.92
Onuphis sp.							130.0	2.49
Arabella iricolor			1.7	1.70				
Naineris uncinata			10.0	43.68				
Cirratulus cirratus			16.7	4.86			2.00	2.31
Thelepus crispus							8.33	45.42
Oligochaeta							311.7	0.08
Gastropoda								
Notoacmea scutum			5.0	9.85			66.7	82.67
Lacuna variegata			1700.0	6.17				
Nucella lanellosa							1.7	3.38

Table 12 (continued)

Page 6

Elevation +1.0', (cont'd.), numbers and biomass (gms.) per $0.25m^2$	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Isopoda	not sampled				not sampled			
Idotea wosnesenskii							16.7	11.92
Decapoda								
Pagurus hirsutiusculus			16.7	6.83			510.0	1.85
Hemigrapsus nudus							83.3	498.44
Hemigrapsus oregonesis							33.3	315.00
Echinodermata								
Leptosynapta clarki								

Elevation 0.0', numbers and biomass (gms.) per $0.25m^2$								
Green Algae								
Monostroma fuscum						130.39		
Ulva sp.						170.54		
Ulva fenestrata						138.13		
Enteromopha sp.				17.30				
Ulva lobata		45.09						
Brown Algae								
Fucus distichus						629.18		
Alaria sp.		35.40						
Red Algae								
Gigartina sp.		59.34		30.27		162.90		18.34
Gigartina papillatus						165.88		
Halymenia schizomenioides						299.52		
Prionitis lanceolata								
Microcladia borealis				25.58				

Table 12 (continued)

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Elevation 0.0' (cont'd.), numbers and biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Red Algae (cont'd.)								
Rhodomela larix		251.58		49.86		639.00		
Coelenterata								
Anthopleura elegantissima	25.0	21.25					26.2	18.28
Nemertea							75.0	4.18
Nematoda	145.0	0.10						
Polychaeta								
Halosydna evisetosa	3.7	3.93			7.5	7.01		
Nereis vexillosa			1.2	10.35	1.2	2.63	1.25	2.33
Lumbrineris sp.					76.2	4.64		
Platynereis bicanaliculata								
Lumbrineri zonata	10.0	2.43					13.7	2.74
Cirratulus cirratus	20.0	7.53	56.2	19.37			28.7	3.59
Protodorivillea gracilis							295.0	0.09
Thelpus crispus	15.0	4.07	443.7	69.88	487.5	193.63	117.5	0.11
Saccociris eroticus								
Terebellidae	5.0	2.99						
Oligochaeta	181.2	0.13			921.2	0.14	238.7	0.08
Gastropoda								
Notoacmea scutum	6.2	14.94			25.0	44.1		
Lacuna sp.	100.0	27.06	2493.7	9.94	2006.2	19.58		
Lacuna variegata	1655.0	3.43						
Collisella pelta	6.2	1.75						
Notoacmea persona	12.5	14.38						
Alvinia sp.	135.0	0.14						

Table 12 (continued)

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Elevation 0.0' (cont'd.), numbers and biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Gastropoda (cont'd.)								
Nucella lemellosa	8.75	7.32						
Searlesia dira			1.25	7.03				
Chitons								
Mopalia lignosa					6.2	34.81		
Bivalves								
Mytilus edulis	18.7	6.4						
Saxidomus giganteus	1.2	80.7						
Barnacles								
Balanus crenatus	31.2	7.6						
Isopods								
Idotea wosnesenskii					38.7	37.25		
Idotea ochotensis		37.5						
Amphipod								
Hyale frequens	3.7	62.5						
Amphithoe sp.			676.2	4.69	581.25	2.88		
Hyale sp.			1502.5	4.64	2826.2	6.13		
Parallorchestes ochotensis			9040.0	17.32	531.2	6.02		
Decapoda								
Pagurus hirsutiusculus					6.2	7.75		
Pugettia gracilis		37.50	136.25	6.12	70.0	17.03		
Cancer oregonensis					12.5	336.38	1.2	1.82
Echinodermata								
Leptasterias hexactis	18.7	5.06			6.2	0.50	6.2	6.56

Table 12 (continued)

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Elevation -1.0', numbers and biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Brown Algae	not sampled				not sampled			
Alaria marginata				154.67				
Ergregia menziesii				100.28				469.9
Red Algae								
Iridaea sp.				239.31				
Iridaea cordata				129.53				
Gigartina sp.								141.57
Rhodoglossum sp.								244.10
Halymenia schizymenioides								186.98
Rhodomela larix								90.57
Necagardhiella baileyi								163.12
Odonthalia floccosa				194.40				
Coelenterata								
Anthopleura elegantissima							10.0	1.80
Polychaeta								
Polynoidae			26.7	12.61				
Halosydna brevisetosa							8.33	3.25
Typosyllie sp.							398.3	0.91
Platynereis bicanaliculata			83.3	5.83				
Lumbrinereis sp.							50.0	3.67
Protodorvillea gracilis							376.7	0.11
Cirratulus cirratus			50.0	6.49			133.3	12.1
Terebellidae			343.3	34.11			291.6	0.88
Thelepus sp.			383.3	128.1				
Thelepus crispus							535.0	213.23

Table 12 (continued)

Page 10

Elevation -1.0' (cont'd.), numbers and biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
	not sampled				not sampled			
Polychaeta (cont'd.)								
Branchiomaldane vicente							68.3	0.14
Oligochaeta							571.7	0.13
Gastropoda								
Lacuna variegata			3241.7	17.17			445.0	4.44
Alvinia sp.			1553.3	4.64			583.3	1.06
Natica clausa			50.0	0.25				
Chitons								
Mopalia muscosa			8.3	9.50				
Isopoda								
Idotea sp.			3925.0	8.93				
Amphipoda								
Hyale sp.			5031.7	9.78			821.7	2.36
Paramoera mohri			2170.0	1.58				
Parallorchestes sp.			1241.7	3.43				
Decapoda								
Pagurus sp.			8.3	9.00				
Telmessus cheriragonus			16.7	0.17				
Pagurus granosimanus							8.33	3.42
Pugettia gracilis			335.50	11.92				
Ectoprocta				6.58				

Table 12 (continued)

Page 11

Elevation -1.5m, numbers and biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Brown Algae								
Laminaria sp.				43.45		102.2		
Laminaria groenlandica								25.84
Alaria marginata		43.16		107.51				13.13
Alaria nana				75.83				
Egregia menziesii				25.25				
Red Algae								
Halmenia schizymenioides								16.94
Rhodomela larix						50.50		
Prionitis lanceolata				85.47				
Odonthalia floccosa		198.48						
Angiosperms								
Phyllospadix scouleri		473.6		128.08		401.42		139.93
Polychaeta								
Platynereis bicanaliculata					8.3	3.38		
Lumbrineris zonata	6.7	1.44						
Cirratulus cirratus	5.0	1.48						
Onuphis sp.					185.0	0.98		
Naineris uncinata					1.7	1.38		
Protodorvillea gracilis							128.3	0.03
Armanda brevis					143.0	0.33		
Oligochaeta					298.0	0.09	405.0	0.09
Enchytraeidae								
Gastropoda								
Lacuna sp.					25.0	1.56		

Table 12 (continued)

Page 12

Elevation -1.5m (cont'd.), numbers and biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Isopoda								
Idotea aculeatea					25.0	1.51		
Decapoda								
Cancer oregonensis			1.7	2.65			3.3	2.61
Pugettia gracilis			23.3	1.61	6.7	4.94		

Elevation -2.5m, numbers and biomass (gms.) per $0.25m^2$

Brown Algae	not sampled				not sampled			
Laminaria groenlandica				150.51				
Laminaria saccharina				23.03				
Pterygophora californica				115.62				
Laminaria setchelli								18.79
Red Algae								
Porphyra naiadum								11.36
Botryoglossum farlowianum				20.76				
Cryptopleura lobulifera								24.53
Laurencia spectabilis								13.32
Odonthalia floccosa				18.8				
Angiosperm								
Phyllospadix scouleri				107.47				231.93
Polychaeta								
Exogone sp.							363.3	0.16
Onuiphis sp.			266.7	1.27			230.0	1.96

Table 12 (continued)

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Elevation -2.5m (cont'd.), numbers and biomass (gms.) per $0.25m^2$	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Polychaeta (cont'd.)	not sampled				not sampled			
Cirratulus cirratus							53.3	3.38
Thelepus crispus							3.3	3.21
Oligochaeta							726.7	0.29
Bivalves								
Psephidia lordi							3.3	1.68
Protothaca staminea			1.7	1.85				
Decapoda								
Pugettia gracilis							6.7	1.50
Cancer oregonesis							13.3	2.09
Elevation -5.0m, numbers and biomass (gms.) per $0.25m^2$								
Brown Algae								
Laminaria saccharina				13.99				
Red Algae								
Porphyra occidentalis				53.07				
Gracilariopsis sjoestdeti				101.42				
Iridaea cordata				58.61				
Odonthalia floccosa		14.73						
Polychaeta								
Micropodarice dubia	70.0	0.12	250.0	0.42				
Exogone sp.			301.0	0.14				
Sphaerosyllis sp.			535.0	0.14	296.7	0.09		
Hemipodus borealis	11.7	1.78			13.3	1.21		
Nicomache personata	48.3	1.81						

Table 12 (continued)

Page 14

Elevation -5.0m (cont'd.), numbers and biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
Polychaeta (cont'd.)	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Oligochaeta			308.0	0.07	221.7	0.09		
Gastropoda								
Margarites lirulatus	30.0	0.71						
Bivalves								
Glycymeris subobsoleta	596.7	2.43			653.3	2.92	346.7	1.56
Cyclocardia sp.							3.3	0.83
Humilaria kennerlyi							1.7	200.46
Psephidia lordi	125.0	0.89						
Saxidomus giganteus							1.7	1.18
Barnacles								
Balanus crenatus	33.3	2.84						
Decapoda								
Cancer oregonensis					15.0	1.19		
Echinodermata								
Eupentacta quinquesemita							1.7	13.68
Leptosynapta clarki						?		

Elevation -7.5m, numbers and biomass (gms.) per $0.25m^2$

Brown Algae	not sampled				not sampled			
Laminaria setchellii				68.99				
Red Algae								
Pophyra miniata				14.92				
Neogardhiella baileyi				18.17				

Table 12 (continued)

Page 15

Elevation -7.5m (cont'd.), numbers and biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Red Algae (cont'd.)	not sampled				not sampled			
Gracilariopsis sjoestedtii				59.31				
Halymenia coccina				12.96				
Laurencia spectabilis				10.58				
Gastropoda								
Margarites pupillus			138.0	2.09				
Bivalves								
Glycymeris sp.			591.7	3.14			281.7	0.74
Astarte alaskensis			15.0	2.24				
Astarte compacta			5.0	2.33				

Elevation -10.0m, numbers and biomass, (gms.) per $0.25m^2$

Brown Algae								
Desmarestia ligulata				12.79				
Red Algae								
Rhodymenia pertusa		5.13						
Polyneura atissima		8.22		15.60				
Callophyllis sp.		12.31						
Callophyllis flabellulata				12.11				
Polychaeta								
Nicomache personata	36.7	2.66						
Gastropoda								
Calyptraea fastigiata			15.0	1.47	5.0	1.27	20.0	1.77
Natica clausa					5.0	1.43		

Table 12 (continued)

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Elevation -10.0m (cont'd.), numbers and biomass (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Bivalves								
Astarte alaskensis			33.3	5.96	25.0	6.46	18.3	3.04
Astarte compactor	115.0	28.4	8.3	5.31	3.3	1.85	18.3	8.80
Clinocardium ciliatum			1.7	4.15			1.7	3.08
Cyclocardia sp.	61.7	2.59	33.3	2.51				
Glycemeris sp.	90.0	0.29						
Modiolus rectus	6.7	4.26						
Tapes japonica					1.7	117.01		
Mya arenaria							3.3	12.75
Saxidomus giganteus	5.0	1.26						
Humilaria kennerlyi			1.7	65.10				
Barnacles								
Balanus glandula							18.3	33.7
Balanus crenatus	71.7	8.89			11.7	2.45		
Tanaidacea								
Leptochelia savignyi					143.0	0.03	110.0	.01
Decapoda								
Cancer oregonensis							11.7	11.11
Golfingia pugettensis			3.3	2.70				
Spinucula					8.3	3.31		
Echinodermata								
Eupentacta quinquesemita							1.7	9.58
Leptosynapta clarki								

A single species of coelenterate, the anenome Anthopleura elegantissima was a dominant species from the +3.0' to -1.0' strata. No pattern of dominance of number of individuals and biomass was evident.

Polychaete worms were well represented at the cobble habitat ranging from the +4.0' to -5.0m strata, with a peak at the 0.0' and -1.0 strata. Of all polychaete species that occurred as dominants intertidally only one did not also have a subtidal distribution.

Five species were frequent through the range of polychaetes. Onuphis sp was found at all strata (except 0.0' and -1.0') between +4' and -2.5m. It had a peak of over 500 individuals per $0.25m^2$ at the +3.0' stratum. Numbers of individuals and biomass tended to be greater in summer.

Thelepus crispus was found dominant in a range from +3.0 to -2.5m and was found at all strata except at -1.5m. Its peak of abundance was at 0.0' with more than 450 individuals per $0.25m^2$. Numbers and biomass tended to be greater in fall and winter.

Protodorvillea gracilis was found from +3.0' to -1.5m at all strata except +1.0'. It had no peak of abundance with over 400 individuals per $0.25m^2$ at the high and low end of its range. A strong seasonal pattern of greater number of individuals and biomass in winter was evident.

Cirratulus cirratus was found at all strata from +2.0' to -2.5m. Its peak in numbers was at -1.0' with more than 130 individuals per $0.25m^2$. No seasonal pattern of abundance or biomass was evident.

The fifth common polychaete was Halosydna brevisetosa with distribution from +1.0' to -1.0 strata. No peak of abundance was noted. Nor was any seasonal pattern in numbers of individuals or biomass evident.

Except for the small degree of zonation in the five species discussed above there was no strong pattern of zonation evident in distribution of polychaetes at the cobble habitat. Species mostly occurred as dominant at one stratum or occurred infrequently over the range.

With remaining polychaete species, no seasonal pattern of frequency of species, numbers of individuals and biomass was evident.

Oligochaetes were well represented as dominants in both the intertidal and subtidal at the cobble habitat occurring at all strata from +5' to -5.0m. The peak of abundance of oligochaetes was 0.0' with numbers in excess of 900 per $0.25m^2$, although numbers were relatively high throughout the range.

In higher strata (+5.0' to +2.0') numbers and biomass of Oligochaetes tended to be higher in summer. At lower strata (+1.0' to -5.0m) numbers and biomass tended to be greater in winter.

Gastropods were the most frequent taxonomic (by number of species) group at the cobble site. Gastropods were dominant fauna at all strata

except -2.5m. Their greatest distribution of species was in the intertidal strata from +4' to 0'. Of the 13 species that were dominant gastropod intertidally at the cobble site, only 5 were also found subtidally.

Littorina sitkana was found at all strata from +6.0' to +2.0'. Its peak of distribution was the +3.0' stratum with 1,100 individuals per $0.25m^2$. L. sitkana was more frequent in winter than in summer. Zonation of Littorina scutulata was also evident. This species was found from +5.0' to +3.0' strata with peak of distribution at the +3.0'stratum with 8.5 individuals per $0.25m^2$. L. scutulata was also more frequent in winter than summer.

The limpets - species of Collisella and Notoacmea also showed zonation at the cobble habitat. Limpet distribution was primarily from the +4.0' to 0.0 strata. Limpets were not found as dominant organisms below the 0.0' stratum. The peak of distribution for most limpet species was the +3.0' stratum. No pattern of seasonal change in numbers or biomass of limpets was evident.

The whelks, Nucella lamellosa and Nucella emarginata also showed zonation in the range of gastropod species that were dominant fauna. N. lamellosa ranged from +4.0' to 0.0' strata with peak of distribution at the +2.0' with 21 individuals per $0.25m^2$. No pattern of seasonal peak in numbers or biomass was evident. Nucella emarginata was distributed from the +4.0 to 2.0' strata with no clear peak in distribution. Seasonal changes in biomass and numbers was evident for this species.

Subtidally gastropod species showed some zonation. Lacuna sp and Lacuna variegata were frequent at the upper subtidal strata and Margarites pupillus, Margarites lirulatus, Calyptraea fastigiata and Natica clausa were dominant forms at lower intertidal strata, Lacuna sp and Lacuna variegata showed seasonal patterns of greater numbers and biomass in summer. Other dominant subtidal gastropods showed no seasonal pattern of numbers or biomass.

Chitons were found dominant at the cobble site only at the 0.0' and -1.0' strata with no seasonal pattern of distribution.

Bivalves at the cobble site were dominant mostly at subtidal strata. Two species were dominant at the 0.0' stratum, the remainder were distributed below the -2.5m stratum. One of the intertidal species was Mytilus edulis. It was not found subtidally.

Bivalves at the cobble site were found primarily from the -2.5m to -10.0m strata. Species richness increased with increased depth and was greatest at -10m. There was no distinct zonation of bivalve species over this range. No pattern of seasonal change in numbers or biomass was evident.

Amphipods were dominant fauna at the cobble site only in the intertidal area, and did not show a consistent pattern of occurrence at all strata. Although amphipods were dominant only intertidally only one of the species had only an intertidal distribution. The others had some representation subtidally. No clear zonation pattern was observed. Paramoera mohri was

dominant at the +5.0' and -1.0' strata, although it was more numerous at the -1.0' stratum. As at the gravel site, P. mohri was more numerous in summer than winter.

Hyale sp was dominant at the +2.0, 0.0' and -1.0' strata. Its peak of distribution was the 0.0' tide mark with more than 2800 individuals per $0.25m^2$. No pattern of seasonal dominance in numbers or biomass was evident. In general though, numbers of individuals and biomass of amphipods tended to be greater in summer.

Barnacles as dominant fauna were more frequent in intertidal strata than subtidal strata. Intertidally their peak of distribution was from the +4.0' to 2.0' strata. Of the species found dominant intertidally all but one were also encountered subtidally. Chthamalus dalli was collected only intertidally.

Chthamalus dalli and Balanus glandula were found at each of the +4.0', +3.0' and +2.0' strata. C. dalli was most frequent at the +3.0' stratum, while B. glandula was most frequent at the +4.0' stratum. Numbers of individuals and biomass were higher in winter than summer. The barnacles that were dominant subtidally were Balanus glandula and Balanus crenatus, although numbers subtidally were much reduced compared to intertidal strata.

Decapods were well represented at the cobble habitat having a range of distribution at all strata (except -7.5m) from +4.0' to -10.0m. Five of the species of decapods that were dominant intertidally at the cobble site did not occur subtidally. Hemigrapsus nudus was distributed from the +4.0' to 1.0' strata. Its peak of distribution was the +1.0' stratum with 83 individuals per $0.25m^2$. H. nudus was more frequent in winter than in summer.

Zonation was evident with other decapod species. Hemigrapsus oregonensis, Pagurus hirsutiusculus, Telmessus cheiragonus and Pagurus granosimanus were all dominant fauna only in intertidal strata. Subtidally, Cancer oregonensis and Pugettia gracilis were the dominant decapod fauna. No seasonal pattern of numbers or biomass was evident.

Echinoderms were distributed as dominants both intertidally and subtidally. The sea star Leptasterius hexactis was found at the +4.0, +2.0, and 0.0' strata with a peak of distribution at the 0.0' stratum. No seasonal pattern in numbers or biomass was evident. Zonation of echinoderms was evident at the -5.0m and -10.0m strata. Eupentacta quinquesemita and Leptosynapta clarkii were dominant echinoderm fauna. No seasonal pattern in numbers or biomass was evident.

3.4.3 Gravel Habitat (Ebey's Landing) Dominant Species

The total number of dominant species in each community group is given for all strata in Table 13. Table 14 lists for each stratum and season the dominant species and their mean numbers and biomass per $0.25m^2$.

There were no algae at the gravel site that were dominant in the intertidal zone (+6' to -1'). There was however, a consistent fauna con-

Table 13

Part A. Species Richness of dominant species at each stratum. Gravel Site (Ebey's Landing). +6 to -1, tide height in feet. -1.5 to -10.0 depth below 0.0 tide in meters.

Part B. Mean Species richness, mean number of individuals and mean biomass for all species at each stratum.

PART A													
Taxonomic Group	+6	+5	+4	+3	+2	+1	0	-1	-1.5	-2.5	-5.0	-7.5	-10.0
Green Algae	--	--	--	--	--	--	--	--	2	2	2	0	0
Brown Algae	--	--	--	--	--	--	--	--	5	1	2	2	5
Red Algae	--	--	--	--	--	--	--	--	3	3	4	6	12
Angiosperms	--	--	--	--	--	--	--	--	--	--	1	1	--
Nemertea	1	1	--	--	1	1	1	1	--	1	1	1	1
Nemetoda	--	--	--	--	--	--	--	--	--	--	1	--	1
Coelenterata	--	--	--	--	--	--	--	--	--	--	--	--	--
Polychaeta	--	--	--	--	--	--	2	3	8	6	16	9	14
Oligochaeta	1	1	1	1		--	--	--	--	--	--	--	--
Gastropods	--	--	--	--	--	--	--	1	1	1	3	--	3
Chitons	--	--	--	--	--	--	--	--	--	--	--	--	--
Bivalves	--	--	--	--	--	--	--	--	--	1	7	5	10
Tanaeids	--	--	--	--	--	--	--	--	1	--	1	1	--
Isopods	--	--	--	--	--	--	--	1	--	--	--	--	--
Amphipods	2	1	1	1	1	2	1	1	6	5	1	2	--
Barnacles	--	--	--	--	--	--	--	--	--	--	--	--	--
Decapods	--	--	--	--	--	--	--	--	3	3	5	1	--
Echnioderms	--	--	--	--	--	--	--	--	--	1	1		--

Table 13 (continued)

Page 2

PART B													
Mean Species Richness	6	4	3	7	4	6	14	13	60	75	83	90	107
Mean Number of Individuals	50	94	30	199	334	355	9870	6339	1041	634	1585	2049	1483
Mean Biomass	0.3	0	0	0.1	o.4	0.2	24	11	290	107	141	333	386

Table 14

List of Dominant Species. Gravel Site (Ebey's Landing). Blank indicates that the species was not dominant during that season.

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Elevation, +6.0', numbers and wet weight (gms.) per $0.25m^2$								
Nemertea sp.	25.0	0.0					8.0	0.0
Oligochaeta	15.0	0.0	42.0	0.0				
Amphipoda								
Paramoera mohri			20.0	0.03				
Orchestia traskiana					49.0	0.92	3.0	0.02
Elevation, +5.0', numbers and wet weight (gms.) per $0.25m^2$								
	not sampled				not sampled			
Nemertea							36.7	0.0
Oligochaeta			130.0	0.0				
Paramoera mohri							1.7	0.21
Elevation, +4.0', numbers and wet weight (gms.) per $0.25m^2$								
	not sampled				not sampled			
Amphipoda								
Paramoera mohri			3.3	0.05				

Table 14 (continued)

Page 2

Elevation, +3.0', numbers and wet weight (gms.) per $0.25m^2$								
	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Nemertea							11.0	0.0
Oligochaeta	9.0	0.0						
Amphipoda								
Paramoera mohri			2.50	0.17	387.0	0.76	45.0	0.05
Elevation, +2.0', numbers and wet weight (gms.) per $0.25m^2$								
	not sampled				not sampled			
Nemertea			73.3	0.14			38.3	0.01
Amphipoda								
Paramoera mohri			5.30	0.37			1.7	0.01
Elevation, +1.0', numbers and wet weight (gms.) per $0.25m^2$								
	not sampled				not sampled			
Nemertea			73.3	0.0			20.0	0.0
Amphipoda								
Paramoera mohri			53.5	0.39			17.0	0.0
Pontogenia sp.			45.0	0.01				

Table 14 (continued)

Page 3

Elevation 0.0', numbers and wet weight (gms.) per 0.25^2

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Nemertea	13.0	0.0	66.0	0.02			34.0	0.0
Polychaeta								
Protodrilus flabelliger					312	0.38		
Hemipodus borealis			13.0	1.27				
Amphipoda								
Paramoera mohri	262	0.76	37,621	46.13	1279.0	1.69		

Elevation -1.0', numbers and wet weight (gms.) $0.25m^2$

Nemertea	not sampled		296.7	0.03	not sampled		296.7	0.03
Polychaeta								
Capitella capitata			5.0	0.15				
Hemipodus borealis			11.7	2.22				
Saccocirrus eroticus			660	0.86				
Gastropoda								
Lacuna Variegata			56.7	0.19				
Isopoda								
Ligia pallasi			85	0.65				
Amphipoda								
Paramoera mohri			9306	8.82			2085	3.42

Table 14 (continued)

Page 4

Elevation, -1.5m, number and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Green Algae								
Monostroma oxyspermum			--	32.71				
Spongomorpha spinescens				257.1				
Brown Algae								
Laminaria saccharina					--	41.84		
Laminaria farlowii								
Pleurophycus gardneri						14.15		
Pterygophora californ							--	204.68
Alaria marginata						71.11		
Red Algae								
Rhodymenia palmata			--	26.76				
Rhodymenia pertusa				62.13				
Odonthalia washingtoniensis					--	89.49		
Polychaeta								
Nereis vexillosa							1.67	2.78
Platynercis bicanaliculata			13.3	3.36	161.7	19.57	36.7	5104
Hemipodus borealis	5.0	0.1						
Lumbrineris zonata	1.7	0.05						
Spio filicornis					136.67	0.74		
Cirratulus cirratus							1.7	0.13
Armandia brevis					188.33	0.83	155.0	0.59
Saccocirrus eroticus	188.3	1.37						

Table 14 (continued)

Page 5

Elevation, -1.5m, number and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Gastropoda								
Lacuna sp.			725	7.16			43.3	0.89
Tanaidacea								
Leptochelia savignyi					145.0	0.11		
Amphipoda								
Melita sp			321.67	0.96				
Paramoera mohri	13.3	0.06						
Pontogeneia sp.	10.0	0.03			106.7	0.21	48.3	0.11
Photis sp.					81.7	0.14		
Synchelidium shoemakeri							48.3	0.01
Phoxocephalidae					81.7	0.36		
Decapoda								
Pugettia gracilis					45.0	4.41	18.3	1.12
Cancer oregonensis							5.0	7.82
Upogebia pugettensis					1.7	4.73		

Table 14 (continued)

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Elevation, -2.5m, number and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Green Algae	not sampled				not sampled			
Monostroma sp.								13.06
Ulva sp.								4.94
Brown Algae								
Laminaria sp.				34.25				
Red Algae								
Iridaea sp.								8.89
Rhodymenia palmata								59.84
Rhodymenia pertusa				12.29				
Nemertea							35.0	
Polychaete								
Nereis sp.							1.7	2.5
Nereis xexillosa							1.7	5.08
Platynereis bicanaliculata			10.0	2.79				
Malacoceros glutaeus			60.0	0.08				
Cirratulus cirratus			8.3	1.57				
Armandia brevis			51.7	0.29			66.7	0.81
Gastropoda								
Lacuna sp.			35.0	0.51			51.7	0.39
Bivalvia								
Macoma obliqu			5.0	2.61				

Table 14 (continued)

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Elevation, -2.5m, numbers and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Amphipoda	not sampled				not sampled			
Synchelidium shoemakeri							55.0	0.03
Aoroides columbias			75.0	0.09				
Pontogeneia sp.			83.3	0.21				
Photis sp.			55.0	.05				
Phoxocephalidae			93.3	0.13				
Decapoda								
Pagurus sp.							8.3	1.63
Pugettia gracilis							28.3	1.51
Cancer oregonensis			1.7	7.20				
Echinodermata								
Leptasterias hexactis			1.7	7.01				

Table 14 (continued)

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Elevation, -5.0m, numbers and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Maldanidae							60.0	0.42
Travisia brevis	8.3	3.24	33.2	2.40				
Oligochaeta					116.7	0.03	115.0	0.06
Gastropoda								
Lacuna sp.			140.0	2.11				
Turbonilla sp.			5.0	0.11				
Searlesia dira	1.67	2.06						
Bivalves								
Mysella tumida	25.0	0.04						
Clinocardium californ	607	50.27			1.7	0.71		
Psephida lordi	96.7	0.81	113.3	1.12	115.0	1.39		
Macoma obliqua			33.3	1.40				
Macoma sp.							6.7	0.79
Saxidomus giganteus							1.7	2.18
Mya arenaria					5.0	3.03		
Tanaidacea								
Leptochelia savignyi	300.0	0.94	428.3	.14	68.3	0.03	93.3	0.03
Amphipoda								
Phoxocephalidae	96.7	0.21						
Decapoda								
Pugettia gracilis			3.38	1.80				
Cancer sp.								
Crangon sp.					8.3	1.60		
Cancer oregonensis					6.7	0.71	8.3	0.78

Table 14 (continued)

Elevation, -5.0m, numbers and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Crangon alaskensis							1.7	1.18
Echinodermata								
Leptosynapta clarki			3.3	1.48				
Green Algae								
Monostromum fuscum			--	15.81				
Spongomorpha spinescens				18.64				
Brown Algae								
Alaria marginata				41.44				
Laminaria saccharina						57.91		
Red Algae								
Gracilariopsis sjoestedti						4.72		3.43
Iridaea sp.				26.36				
Iridaea cordata				110.59				
Odonthalia washingtoniensis						4.71		
Angiosperms								
Zostera marina		61.59		33.96		11.66		19.41
Nemertea			43.3	4.24			58.3	0.78
Nematoda			15.0	0.78				
Polychaeta								
Exogone sp.			411	0.09				
Exogone lourei	75.0	.03						

Table 14 (continued)

Elevation, -5.0m, numbers and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Nereis procera	26.7	2.30						
Protodorvillea gracilis			158.3	0.11	71.7	0.03	58.3	0.01
Prionospio steenstrupi					63.3	0.67		
Chaetezone sp.					173.3	0.49		
Nicomache personata	65.0	3.39	121.7	5.78	13.3	0.71	51.7	1.66
Praxillella affinis	55.0	1.34						
Owenia fusiformis	60.0	1.11	40.0	1.29	33.3	0.74		
Spiophanes bombyx	121.7	0.92	98.3	1.01				
Axiothella rubrocincta			81.7	1.59	63.3	1.61	3.33	0.48
Mediomastus ambiseta							70.0	0.21

Table 14 (continued)

Elevation, -7.5m, numbers and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
	not sampled				not sampled			
Green Algae								
Brown Algae								
Costaria Costata				30.44				
Alaria marginata				116.90				
Red Algae								
Gracilariopsis sjoestedti				64.30				7.98
Iridaea cordata				157.98				9.17
Prionitis lanceolata				23.62				
Constantinea simplex								
Laurencia spectabilis				35.13				
Odonthalia floccosa								3.24
Angiosperm								
Zostera marina				20.63				5.04
Nemertea			55.0	3.66			90.0	0.43
Polychaeta								
Platynereis bicanaliculata							16.7	1.19
Exogone sp.			68.3	0.03				
Protodorvillea gracilis			198.3	0.13			86.7	0.03
Spiophanes bombyx			405.0	2.17			196.7	0.36
Nicomache personata							15.0	0.67

Table 14 (continued)

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Elevation, -7.5m, numbers and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
	not sampled				not sampled			
Mediomastus sp.							15.0	0.67
Axiothella rubrocincta			70.0	4.31				
Owenia fursiformis			31.7	1.36				
Oligochaeta			46.7	0.0			343.0	0.07
Bivalves								
Clinocardium nuttalli			5.0	117.84				
Glycymeris subobsoleta							250.0	0.96
Psephidia lordi			696.7	3.84			88.0	0.64
Macoma obliqua			1.7	0.68			15.0	4.75
Mya arenaria			3.3	0.58				
Tanacid								
Leptochelia savignyi			75.0	0.06			98.3	0.05
Amphipoda								
Corophium sp.			51.7	0.03				
Phoxocephalidae			45.0	0.06				
Decapoda								
Pugetti richii							3.3	1.68

Table 14 (continued)

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Elevation -10.0m, numbers and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Green Algae								
Brown Algae								
Desmarestia aculeata				76.67				
Desmarestia ligulata		8.50		117.61		12.17		
Desmarestia viridis								
Costaria costata								
Scytosiphon lomentaria								
Red Algae								
Iridaea heterocarpa		2.65						
Plocamium coccineum				24.61				
Plocamium cartilagineum								1.71
Cryptonemia sp.								1.74
Callophyllis pinnata								13.41
Callophyllis thompson		15.39						
Callophyllis flabellulata		13.60		23.77				3.36
Hymenena flabelligera		27.36		18.40				
Odonthalia floccosa		17.43						
Fauchea laciniata				46.04				
Neoptilota sp.						17.28		

Table 14 (continued)

Elevation -10.0m, numbers and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Boteyoglossum farlowi	18.3	1.66						5.62
Nematoda	46.7	0.20	45.0	0.03				
Polychaeta								
Phloe minuta	28.3	0.17						
Exogone sp.			86.7	0.04				
Platyreneis bicanalculata	5.0	0.92						
Nephtys longosetosa					3.3	1.26		
Prionospio steenstrupi	25.0	0.42					61.7	0.41
Spio sp.			71.7	0.31	53.3	0.26		
Cirratulus cirratus	1.7	1.43						
Chaetozone setosa	25.0	0.06						
Chaetozone sp.			46.7	0.24				
Mediomastus sp.	51.7	0.14	18.5	0.31			73.3	0.04
Mediomastus ambiseta					70.0	0.07		
Nicomache personata	43.3	1.49	31.6	1.54				
Praxillella affinis	46.7	0.28						
Owenia fusiformis							51.7	1.4
Gastropoda								
Margarites lirulatus	20.0	0.44						
Lacuna sp.			1.7	1.68				
Calyptraea fastigiata	100.0	2.46	38.3	4.49	40.0	2.17	26.7	4.41

Table 14 (continued)

Elevation -10.0m, number and wet weight (gms.) per $0.25m^2$

	Spring		Summer		Fall		Winter	
	#	Wt.	#	Wt.	#	Wt.	#	Wt.
Chitons								
Bivalves								
Glycymeris sp.	95.0	0.31						
Cyclocardia sp.	28.3	2.86	18.3	3.06	26.7	1.21	10.0	2.13
Musculus sp.						5.0	4.31	
Modiolus rectus						8.3	118.05	
Clinocardium californ	6.7	5.61	1.70	2.30			6.7	1.18
Macoma obliqua	10.0	0.73	6.7	2.08	13.3	2.34		
Saxidomus giganteus	1.17	418.56	1.7	1.76			11.7	220.44
Mya arenaria								
Mya truncata			5.0	2.88			3.3	101.76
Protothaca staminea					1.7	28.7		
Tanaidacea								
Leptochelia savignyi	100.0	0.08					48.3	0.0
Decapoda								
Cancer oregonensis					1.7	2.83		
Echinoderms								
Eupentacta quinquesemita	3.3	12.46						
Leptosynapta clarki	20.0	2.17						

sisting of Nemertean worms, Oligochaete worms and amphipods. Nemerteans were distributed at almost all strata (Table 14). Oligochaetes were found dominant in the mid and upper tide levels. Nemerteans and Oligochaetes showed no seasonal pattern in frequency of distribution, although when dominant during the summer the numbers of individuals and biomass was greater than at other seasons.

Amphipods were a dominant group intertidally at the gravel site. This was due primarily to the presence of a single species--Paramoera mohri. This species was found dominant consistently through the intertidal area but showed a peak in numbers and biomass at the 0.0' stratum. A summer density of over 37,000 individuals per $0.25m^2$ was observed. Paramoera mohri showed a distinct seasonal change with highest number of individuals and biomass being found in the summer.

Polychaetes as dominant fauna were found only in the lower intertidal area and consisted of species that had a greater distribution at deeper subtidal strata.

Subtidally green algae were well represented but were patchy with season. Species at a stratum were generally dominant only once during the four seasons. Species of Spongomorpha and Monostroma were dominant during both summer and winter.

Brown algae were well represented at the gravel site although no species was consistently dominant at all four seasons. Some zonation of species was noted. Species of Laminaria were more frequent in shallower subtidal strata and Desmarestia and Costaria were dominant at deeper subtidal strata.

Red algae showed increasing numbers of species with increasing depth subtidally. Species changed at each stratum and no zonation pattern was evident. Few species were dominant in all four seasons and no peak in biomass with season was evident for the dominant red algae.

The eelgrasses, Zostera marina and Phyllospadix were dominant flora at the gravel habitat subtidally. At -5.0m and -7.5m strata eelgrass beds were predominant features of the substrate. At -5.0m Zostera marina was collected at all four seasons, with peak of biomass in the summer.

Polychaetes were well represented subtidally at the gravel habitat. Zonation of species with depth was evident. Platynereis bicanaliculata and Armandia brevis were found at shallower subtidal strata. At deeper strata Nicomache personata, Owenia fusiformis, Spiophanes bombyx, and Protodorvillea gracillis were most frequent. No consistent pattern of change in numbers or biomass with season was evident with polychaetes.

Gastropods had a relatively poor distribution subtidally at the gravel habitat with no pattern of zonation with decrease depth nor distinct seasonal abundance.

Bivalves were common at the gravel site only at the deeper subtidal

strata (-5.0m to -10.0m). There was no distinct pattern of zonation with depth. Nor was there any distinct pattern of change in numbers of individuals or biomass with change in season.

Amphipods were dominant fauna subtidally at the gravel site as well as intertidally. Paramoera mohri, the very common intertidal species was dominant only at the -1.5m stratum and in reduced numbers compared to the intertidal distribution. Synchelidium shoemakeri and Pontogeneia sp. were dominant at the shallow subtidal strata but were not found below -2.5m. The Phoxocephalidae group (about 3 species) was most common subtidally being found at most strata. No amphipods were dominant at the -10.0m stratum. No distinct seasonal pattern was noted although species numbers, numbers of individuals and biomass all tended to be greatest during summer.

Of the Decapods, Cancer oregonesis was the only species distributed throughout the subtidal strata. No pattern of zonation was evident. Decapods showed no pattern of seasonal distribution.

3.5 Live Seive Data

Data for live seive sampling are given in Table 15. At two sites (West Beach - sand, and Ebey's Landing - cobble) no flora or fauna were found in samples taken in the intertidal zone. At the third site however, (Partridge Point - cobble) fauna were regularly taken at the 0.0' and 2.0' tide height. Occasionally organisms would be found at the +6.0' tide height. Most of the species encountered were mobile forms found under the cobbles and on the surface of the fine sediment. Only one clam Saxidomus giganteus was found.

No apparent difference was noted in either species richness between the 0.0' and 2.0' tide height or the four seasons at a given tide height.

3.6 Species Diversity Indices

The species diversity index for each site, stratum, and season is given in Table 16. In general, diversity was greater subtidally than intertidally, and the cobble site (Partridge Point) had higher diversity than the gravel (Ebey's Landing) or sand site (West Beach). Highest diversity was found at the deepest sampling stratum (-10m).

There was no evident pattern of change in diversity with season although indicies were generally greater in summer than winter.

Intertidally the species diversity indices of two of the three sites were similar. The sand site (West Beach) and the gravel site (Ebey's Landing) had relatively low species diversity intertidally. The third site (cobble, Partridge Point) had a relatively high species diversity intertidally.

TABLE 15

Data from live seives ($0.25m^2$ by 30cm. deep, passed through 0.5 inch screen). West Beach (sand) and Ebey's Landing (gravel) had no fauna.

PARTRIDGE POINT

		Mean Number	Mean Weight
Spring			
0.0'	Notoacmea persona	0.3	0.7
	Searlesia dira	0.3	1.4
	Nucella lamellosa	3.0	13.4
	Saxidomus giganteus	0.3	45.2
	Pugettia gracilis	1.3	7.2
	Cancer orogonensis	1.0	3.4
	Hemigrapsis nudus	2.7	15.8
	Leptastarius hexactis	0.3	0.9
+2.0'	Anthopleura elegantissima	0.3	0.3
	Collisella pelta	0.3	0.2
	Notoacmea persona	7.4	7.4
	Searlesia dira	1.3	2.7
	Saxidomus giganteus	0.3	20.6
	Pagurus hirsutiusculus	0.3	0.2
	Hemigrapsus nudus	4.0	27.1
	Leptasterias hexactis	2.0	1.9
	Gobiesox meandricus	0.3	3.9
+6.0'	Notoacmea persona	4.0	1.9
	Searlesia dira	0.3	0.24
	Nucella lamellosa	0.3	1.9
	Leptasterias hexactis	2.0	1.7

Table 15 (continued)

		Mean Number	Mean Weight
Summer			
0.0'	Nucella lamellosa	1.0	4.4
	Hemigrapsus nudus	1.3	9.9
	Pugettia gracilis	1.0	1.4
	Pagurus hirsutiusculus	0.3	0.39
	Leptasterias hexactis	0.3	1.7
	Idotea wosnesenskii	1.7	0.73
+2.0'	Notoacmea sp.	2.3	2.8
	Saxidomus giganteus	0.3	2.8
	Nucella lamellosa	1.0	1.4
	Hemigrapsus nudus	3.0	3.9
	Leptasterias hexactis	1.0	0.92
+6.0'	Notoacmea sp.	1.0	0.9
	Nucella lamellosa	2.3	11.5
	Hemigrapsus nudus	2.3	17.7
Fall			
0.0'	Epiactis prolifera	1.0	1.9
	Nucella lamellosa	0.3	2.4
	Leptasterias hexactis	1.7	3.4
	Notoacmea scutum	2.0	6.7
	Hemigrapsus nudus	0.3	2.1
	Idotea wosesnskii	2.0	1.8
	Pugettia gracilis	2.5	2.3
+2.0	Nucella lamellosa	0.3	0.9
	Leptasterias hexactis	0.7	0.4
	Notoacmea scutum	4.7	4.4
	Notoacmea persona	0.3	0.9

Table 15 (continued)

Fall, +2.0' (continued)		Mean Number	Mean Weight
	Pagurus hirsutiusculus	0.3	0.11
	Hemigrapsus nudus	0.7	5.1
	Idotea wosnesenskii	0.3	0.4
	Anthopleura elegantis	0.3	0.22
+6.0	none		
Winter			
0.0'	Idotea wosnesenskii	2.0	1.5
	Anthopleura elegantissima	0.3	0.22
	Nucella lamellosa	1.7	5.6
	Notoacmea scutum	1.3	4.4
	Katharina tunicata	0.3	8.1
	Hemigrapsus nudus	8.8	16.6
	Pugettia gracilis	0.3	0.3
	Leptastarius hexactis	0.5	0.1
	Mopalia lignosa	0.3	3.1
+2.0'	Idotea wosnesenskii	0.3	0.10
	Anthopleura elegantissima	0.8	1.5
	Nucella lamellosa	0.8	2.4
	Notoacmea scutum	0.8	1.1
	Hemigrapsus nudus	1.1	2.9
	Nucella emarginata	0.2	0.4
+6.0'	none		

TABLE 16

Species Diversity Indices (Shannon Index) for each site, season and stratum. W.B. - West Beach (sand habitat), P.P. - Partridge Point (cobble habitat) and E.L. - Ebey's Landing (gravel habitat). Blanks indicate no sample taken.

DEPTH	Spring			Summer			Fall			Winter		
	W.B.	P.P.	E.L.	W.B.	P.P	E.L.	W.B.	P.P.	E.L.	W.B.	P.P.	E.L.
-10m	3.6	4.3	4.3	3.1	4.6	4.5	3.7	4.5	4.7	3.9	4.3	4.7
- 7.5m				2.6	3.4	3.8				3.2	3.3	3.8
- 5.0m	2.5	3.3	3.7	2.9	3.8	4.0	3.1	3.6	4.3	3.0	3.7	4.2
- 2.5m				2.3	3.8	4.0				2.5	3.9	3.7
- 1.5m	2.6	3.5	2.0	3.0	3.4	3.0	2.2	3.8	4.2	2.3	2.9	3.8
- 1.0'				1.2	3.3	1.3				0	3.9	1.0
0.0'	1.3	3.8	0.5	2.1	2.9	1.5	1.7	3.9	1.8	0.9	3.8	1.0
1.0'				0	2.1	1.5				0	3.6	0.4
2.0'		3.4		1.2	2.5	1.6		3.6		0.6	3.8	1.3
3.0'	2.1		1.8	2.4	3.5	1.0	3.2		0.6	0.7	3.0	2.2
4.0'				0.7	2.6	2.0				0.7	2.5	0.4
5.0'				2.0	2.5	1.2				1.9	3.1	0.3
6.0'	1.5	2.2	2.2	1.7	2.6	2.1	2.4	2.7	2.3	1.0	0.9	1.7

At all sites there was no evident pattern of diversity indices with change in stratum. For example the range of indices found at the +6' stratum was similar to the range found at the 0.0' stratum.

Subtidally there was less difference between the three sites than there was intertidally. At any given stratum the sand site (West Beach) had the lowest species diversity. The other two sites (Partridge Point and Ebey's Landing) had similar diversity indices subtidally.

The highest diversity indices were observed at the deepest stratum (-10m). Except for this, however, there was no evident pattern of change in diversity with change in depth subtidally.

3.7 Seasonal Variation, Statistical Analysis

Differences in mean number of individuals and mean weights for summer and winter were examined statistically with a t test. Each stratum at each site was examined. Table 17, 18, and 19 lists those species that had a significant difference in either mean weight or mean numbers ($p = 0.05$), for each of the three sites.

West Beach. At the sand site there were no significant differences in numbers or weight for species found at the intertidal strata (Table 17). Subtidally the percent of species with significant differences ranged from 5% (-1.5m) to 17% (-2.5m). There was no evident pattern of percent of significant differences with depth. The bulk of species showed significant differences in mean number. Only a few showed differences in mean weight. Only two species showed significant differences in numbers and weight.

Table 17 shows that more species had higher numbers or weights in summer compared to winter. Twelve species had higher values of mean number or weight in summer. Eight species, however, had higher mean number or weights in winter. In particular the amphipod of the family Phoxocephalidae was significantly more numerous in winter than in summer.

Partridge Point. Unlike the sand or gravel site, Partridge Point had species with significant differences in mean number or weights at intertidal strata (Table 18). From +4 to -1' tidal heights between 1 and 5% of species showed significant differences. More species had significant differences in mean number than mean weight. Only a few species had significant differences in numbers and weights.

Subtidally there were fewer significant differences in numbers and weights at the cobble site compared to the gravel and sand site (Table 18). Percent of significant species at subtidal strata ranged from 0 to 6. Most species had significant differences in mean numbers. Fewer had significant differences in mean number. Only one species (Nematoda) showed significant differences in both numbers and weights.

Table 18 shows that at the cobble sites more species had greater mean

TABLE 17

Species with significant differences in mean number or weight between summer and winter. West Beach (sand habitat). X indicates a significant difference ("t" test, p = 0.05). Under season S indicates mean number or weight was greatest in summer. W indicates significantly greater values in winter.

DEPTH	Season	Mean Number	Mean Weight
-10.0m			
Pholoe minuta	S	X	
Phyllodoce sp.	W	X	
Prionospio cirrifera	S	X	
Spiophanes bombyx	S	X	
Axinopsida serricata	S		X
Tellina modesta	S	X	
Psephidia lordi	S	X	X
Phoxocephalidae	S	X	
Total number of species:		64	
% Significant differences:		13	
-7.5m			
Scoloplos pugettensis	W	X	
Armadia brevis	W	X	
Owenia fusiformis	W	X	
Phoxocephalidae	S	X	
Total number of species:		57	
% Significant differences:		7	
-5.0m			
Psephidia lordi	S	X	X
-5.0 (con't.)			
Photis sp.	S	X	
Protomedeia sp.	S	X	
Phoxocephalidae	W	X	
Total number of species:		23	
% Significant differences:		17	
-2.5m			
Psephidia lordi	W	X	X
Diastylis sp.		X	
Phoxocephalidae	S	X	
Total number of species:		23	
% Significant differences:		13	
-1.5m			
Phoxocephalidae	W	X	
Total number of species:		21	
% Significant differences:		5	
-1.0' to +6.0': none			

TABLE 18

Species with significant differences in mean number or weight between summer and winter. Partridge Point (cobble habitat). X indicates a significant difference ("t" test, p = 0.05). Under season S indicates mean number or weight was greater in summer. W indicates significantly greater values in winter.

DEPTH	Season	Mean Number	Mean Weight
-10m			
Callophyllis flabellulata	S		X
Protodorvillea gracilis	S	X	
Total number of species:		10	
% Significant differences:		2	
-7.5m - none			
-5.0m			
Nematoda	S	X	X
Hemipodus borealis	W	X	
Spio filicornis	S		X
Maldanidae	W	X	
Pinnixa occidentalis	S	X	
Total number of species:		82	
% Significant differences:		6	
-2.5m			
Oligochaeta	S	X	
Total number of species:		88	
-2.5 (con't.)			
% Significant differences:		1	
-1.5 - none			
Total number of species:		10	
% Significant differences:		2	
-1.0			
Nemertea	W	X	
Chaetozone sp	W	X	
Exosphaeroma ampli	S	X	
Hyale sp.	S		X
Total number of species:		107	
% Significant differences:		4	
0.0			
Rhodomela larix	S		X
Idotea sp. juv.	S	X	
Total number of species:		102	
% Significant differences:		2	
+1.0			
Notoacmea scutum	W	X	X

Table 18 (continued)

DEPTH	Season	Mean Number	Mean Weight
+1.0 (con't.)			
Total number of species:		65	
% Significant differences:		0.7	
+2.0			
Cirratulidae	W	X	
Littorina sitkana	W	X	X
Total number of species:		66	
% Significant differences:		3	

DEPTH	Season	Mean Number	Mean Weight
+3.0'			
Onuphis sp.	S		X
Protodorvillea gracilis	W	X	
Total number of species:		51	
% Significant differences		4	
+4.0'			
Typosyllis sp.	S	X	
Hemipodus borealis	S	X	
Oligochaeta	S	X	X
Total number of species:		56	
% Significant differences:		5	
+5.0' - none			
+6.0' - none			

TABLE 19

Species with significant differences in mean number or weight between summer and winter. Ebey's Landing (gravel habitat). X indicates a significant difference ("t" test, p = 0.05). Under season, S indicates mean number or weight was significantly greater in summer. W indicates significantly greater values in winter.

DEPTH	Season	Mean Number	Mean Weight
-10m			
Desmarestia ligulata	S		X
Callophyllis flabellulata	S		X
Scalibregma inflatum	S		X
Armandia brevis	S	X	
Nicomache personata	S		X
Owenia fusiformis	W	X	
Saxidomus giganteus	W	X	
Melita sp.	W	X	
Ophiuroidea	W	X	
Total number of species:		107	
% Significant differences:		8.5	
-7.5m			
Nematoda	W	X	
Spiophanes bombyx	S		X
Travisia brevis	S	X	
Oligochaeta	W	X	
Psephidia lordi	S	X	X
Corophium sp.	S	X	
Leptosynapta clarki	S		X
Total number of species:		90	
% Significant differences:		7.8	

DEPTH	Season	Mean Number	Mean Weight
-5.0m			
Spio filicornis	S	X	
Total number of species:		83	
% Significant differences:		1	
-2.5m			
Prionospio steenstrupi	S	X	
Atylus sp.	W	X	
Total number of species:		75	
% Significant differences:		3	
-1.5m - none			
-1.0m - none			
0.0'			
Paramoera mohri	S	X	
Total number of species:		14	
% Significant differences:		7	
+1.0' - none			
+2.0' - none			
+3.0' - none			
+4.0' - none			
+5.0' - none			
+6.0' - none			

numbers of individuals or weight in summer than in winter. Fourteen species had higher numbers or weights during the summer. Eight species however, had higher numbers or weights during the winter. There was no evident pattern of summer or winter dominance with tide height or subtidal depth. At both intertidal and subtidal strata the fraction of species with summer or winter dominance was similar.

Ebey's Landing. Intertidally the gravel site was similar to the sand in that almost no species showed significant differences between summer and winter (Table 19). At the 0.0' tide mark one species showed a significantly higher mean number in summer than winter.

Subtidally the percent of significant differences ranged from 0 to 8.5 (Table 19). At the site deeper subtidal strata showed relatively higher percent of significant differences than the shallower strata. More species had significant differences in mean number than mean weight. Only one species showed significant differences in numbers and weight.

Table 19 shows that at the gravel site more species had higher numbers or weights in summer compared to winter. Thirteen species had higher values of mean weight or number in summer. Seven species however, had higher mean numbers or weights in winter. The amphipod Paramoera mohri although numerous at most intertidal strata, only was significantly greater in summer at the 0.0' tide height.

3.8 Variability

Since standard deviation increases with the mean it is not a convenient relative measure of variability of data. The coefficient of variability (discussed by Eberhart, 1978) allows rapid comparison of variability in data sets. The C.V. is the standard deviation divided by the mean.

Eberhart has compiled C.V. data for a range of sampling methods for flora and faunal groups. For benthos he reports C.V. of between 0.4 and 0.8. To appraise variability of data in this study it was assumed that those species with a C.V. <1.0 had acceptable variability, that is the sample area and replicate number were adequate to provide data that could be used for statistical comparison. Those species that had C.V. of 1.0 or greater have unacceptable variability for statistical comparisons.

The C.V. for each species at each stratum, season and site are given in Appendix 1. A summary of C.V. data are given in Table 20. For the replicates at each site, season and strata, the percent of the number of species that had a C.V. of 1.0 or greater is given.

As the tables show the number of species with unacceptable variability is high, in almost all cases well above 50%. In the upper intertidal areas of the sand habitat, unacceptable variability was often 100% of the species.

Two factors should be kept in mind when examining Table 20. The +6,

Table 20

Summary of Coefficient of Variation (sd/mean). - indicates no sample.
Percent values are the percent of species with a CV of 1.0 or greater.

Sand (West Beach)	+6	+5	+4	+3	+2	+1	0	-1	-1.5	-2.5	-5.0	-7.5	-10.0
Spring													
total # sp.	3	--	--	4	--	--	2	--	18	--	26	--	45
% C.V. $\geq$ 1.0	100	--	--	75	--	--	100	--	50	--	58	--	67
Summer													
total # sp	5	9	2	10	4	--	6	4	24	14	48	58	58
% C.V. $\geq$ 1.0	100	100	100	100	100	--	83	100	58	57	58	57	50
Fall													
total # sp	10	--	--	15	--	--	21	--	25	--	57	--	73
% C.V. $\geq$ 1.0	90	--	--	73	--	--	95	--	80	--	70	--	44
Winter													
total # sp	3	4	2	4	2	1	5	3	17	32	39	50	73
% C.V. $\geq$ 1.0	100	50	100	100	100	100	30	100	65	69	59	44	58

Table 20 (continued)

Page 2

Cobble (Partridge Point)	+6	+5	+4	+3	+2	+1	0	-1	-1.5	-2.5	-5.0	-7.5	-10.0
Spring													
total # sp	7	--	--	--	39	--	73	--	70	--	50	--	79
% C.V. $\geq$ 1.0	86	--	--	--	85	--	74	--	78	--	62	--	61
Summer													
total # sp	15	19	32	46	66	41	74	86	68	73	82	61	93
% C.V. $\geq$ 1.0	100	68	73	70	73	78	66	63	96	68	63	64	55
Fall													
total # sp	13	--	--	--	52	--	79	--	69	--	63	--	75
% C.V. $\geq$ 1.0	85	--	--	--	83	--	63	--	74	--	54	--	45
Winter													
total # sp	12	22	56	44	49	53	55	77	40	64	78	52	77
% C.V. $\geq$ 1.0	100	86	79	66	69	74	80	68	78	64	42	71	62

Table 20 (continued)

Page 3

Gravel (Ebey's Landing)	+6	+5	+4	+3	+2	+1	0	-1	-1.5	-2.5	-5.0	-7.5	-10.0
Spring													
total # sp	7	--	--	5	--	--	10	--	13	--	62	--	81
% C.V. $\geq$ 1.0	100	--	--	100	--	--	90	--	77	--	69	--	65
Summer													
total # sp	5	4	5	7	7	9	12	19	48	62	75	71	90
% C.V. $\geq$ 1.0	80	75	40	100	29	56	83	79	69	71	44	55	61
Fall													
total # sp	11	--	--	12	--	--	24	--	78	--	76	--	83
% C.V. $\geq$ 1.0	91	--	--	92	--	--	89	--	59	--	63	--	57
Winter													
total # sp	3	6	3	6	4	5	8	10	61	49	71	66	84
% C.V. $\geq$ 1.0	66	100	100	67	75	60	100	60	80	76	65	64	56

+3 and 0 strata, the sand and gravel habitats had a replicate number of 5. The +6, +2 and 0.0 strata at the cobble site had a replicate number of 4. All other strata at each of the sites had a replicate number of three. The difference between 3 and 5 replicates did not appear to have any pronounced effect on variability. In fact in general variability was generally lower in subtidal samples when sample size was 3. Quantitative applications of these data are limited by the high variability.

4. DISCUSSION

4.1 West Coast of Whidbey Island Beach System

The west coast of Whidbey Island is a series of beaches that are part of a unified beach system. Unconsolidated glacial deposits on uplands serve as sediment sources. Exposure to southerly and westerly winds provides moderate wave action from the Strait of Juan de Fuca. The result is a series of erosional, transport and accretion beaches. Generally the erosional beaches are cobble, the transport beaches gravel and the accretion beaches sand. The sampling sites were chosen to reflect the three primary habitats.

Subtidally the bottom characteristics are, in general, similar to the intertidal substrate, except that with increasing depth and decreased wave action the proportion of silt in the substrate increases.

At the three sites on the west coast of Whidbey Island, wave energy, temperature and salinity were all similar. Differences observed in intertidal and shallow subtidal communities are believed to be the result of different substrate types.

Species richness at the three intertidal habitats is related to substrate stability. At the gravel and sand habitats wave action causes movement of beach material through the year. Species richness is reflected by this. At the sand and gravel habitats there is a relatively poor species representation. (More species were found intertidally at the gravel habitat than the sand habitat). Only polychaetes and amphipods were dominant organisms intertidally at the sand site, and they were distributed at low intertidal strata. Species found at these strata were more widely distributed subtidally.

At the gravel site amphipods, oligochaete worms, polychaete worms, and nemerteans were the only dominant intertidal organisms. The amphipods, oligochaetes and probably nemerteans were a distinct intertidal fauna. The amphipod Paramoera mohri which was very common at the gravel site intertidally had virtually no subtidal distribution.

The sand site then had virtually no distinct intertidal community and that of the gravel site was relatively meager.

At the cobble site however, both algae and invertebrates were well represented in the intertidal area. Many community groups had a distinct intertidal presence. In the algae groups, red algae found intertidally were generally not found subtidally. Polychaetes at the cobble site were common at intertidal strata. Although all but one of the polychaetes species also had a subtidal distribution, a number had their peak of abundance in the intertidal strata. Gastropods, barnacles, decapods and echinoderms all had a distinctive intertidal distribution.

Species richness subtidally at the sand and gravel habitats was much greater than intertidally. At the cobble habitat species richness subtidally was lower than intertidally. There were distinct differences between the subtidal communities at the three habitats. The gravel and sand habitats subtidally had a similarity index of 39%. The similarity between the cobble and sand was also low (38%) but between cobble and gravel was relatively high (63%). The similarity is apparently related to substrate type. At the sand habitat the substrate subtidally continued as sand with increasing silt content. The gravel habitat however, had patches of cobble that made it more similar to the cobble habitat subtidally. At the cobble and gravel habitats algae that require a stable substrate for attachment were common. Algae were virtually absent at sand habitat.

At all habitats bivalve distribution increased with increasing depth. At the gravel and sand habitats polychaetes increased in number of species with depth. However, that pattern was not noted at the sand habitat. Gastropods were common subtidally at both the gravel and cobble sites but not the sand site. Amphipods were common subtidally at the gravel and sand habitats but not the cobble habitat. Cobble and sand habitats were most distinctly different with the gravel site being similar to the cobble with some community groups and similar to the sand with others.

There are then, distinct communities at the three habitats in the Whidbey Island beach system. At the sand and gravel the clearest defined communities are subtidally with only a meager intertidal representation. At the cobble site there is a well developed, distinct intertidal community as well as a distinct subtidal community.

Some species stand out as being associated with various habitats. The amphipod Paramoera mohri was very common only intertidally at the gravel habitat. Amphipods of the group Phoxocephalidae were very common subtidally at the sand and gravel sites. The clam Psephidia lordi was very common subtidally at the sand site. At the cobble site the snail Littorina sitkana was very common in the intertidal area.

4.2 Seasonal Changes

At each site there was a maximum number of individuals in summer and in general maximum biomass in fall and winter. Seasonal patterns in separate community groups however, did not always agree with the general pattern. The amphipod Paramoera mohri did show a clear summer peak in numbers. However, for some community groups response differed according to strata. At the cobble site oligochaetes were more numerous in winter at lower strata. However, they were more numerous in winter in lower strata. In some groups different species varied in patterns of abundance. At the cobble habitat the polychaete Onuphis sp. had a peak in numbers in summer while Thelepus crispus had greater numbers in winter.

Seasonal changes then appear to be more complex than the general pattern and must be examined on a species by species basis.

4.3 Evaluation of Sample Methods

As the data on coefficients of variability showed, the sampling procedures used in this study resulted in data with relatively high variability. Such is the difficulty of community analysis studies in the intertidal and shallow subtidal. These communities have a high degree of variability due primarily to variable environmental conditions. Limits of time and money restrict such community studies to basically a descriptive level. Any statistical comparison must take into account the high variability of the data so as to not lead to erroneous conclusions.

For one species at least, the sample size used was inadequate. At both the gravel and cobble sites the bull kelp Nereocystis was commonly observed. However, this species was not sampled at either habitat. Sample size was too small. Other subtidal macroalgae may also have been inadequately sampled for this reason.

Another probable sampling error was the procedure followed for sampling the cobble site intertidally. The procedure required the removal from top, sides and bottoms of cobbles organisms in 5, $0.01m^2$ areas. It was extremely difficult under field conditions to accurately determine boundaries of the 5 subsample areas.

4.4 Comparison with Other Areas

Similar intertidal and shallow subtidal community analysis have been done in recent years in other areas of Puget Sound. Nyblade (1978) studied areas along the Strait of Juan de Fuca, and Webber and Smith (1978) studied areas in Rosario Channel and southern Georgia Strait.

A summary of data on species richness, number of individuals and biomass for cobble, sand, and gravel habitats is given in Tables 21 through 23.

4.4.1 Sand Habitat

Sand sites compared include North Beach Sand and Kydaka from the Strait of Juan de Fuca, West Beach on Whidbey Island and Birch Bay on southern Georgia Strait (Table 21).

Species richness intertidally at these sites is apparently affected by the degree of exposure. West Beach, North Beach Sand, and Kydaka are all exposed and have relatively low but similar species richness. Birch Bay, which is more protected, had relatively greater species richness. West Beach had the lowest species richness. As well as greater species richness, Birch Bay had greater numbers of individuals and biomass than the other three sites.

At all sand sites species number increased with decrease in tide height. This pattern was least evident at Birch Bay.

Subtidally species richness at West Beach and Kydaka were similar, but that of North Beach Sand was relatively higher and was more similar to the species richness of gravel and cobble habitats (Tables 22, 23).

Mean numbers of individuals, however, were similar between North Beach Sand and West Beach Sand. Kydaka had relatively lower mean numbers.

Kydaka also showed the lowest mean biomass of the three sites.

4.4.2 Cobble Habitat

Cobble habitats compared included Morse Creek and North Beach from the Strait of Juan de Fuca, Shannon Point, near Anacortes, and Partridge Point on Whidbey Island (Table 22). All cobble habitats showed greater species richness intertidally than the sand or gravel habitats. At all cobble habitats there was an increase in species number with decrease in tide height. There was no clear pattern of dominance in species number comparing cobble habitats. The highest number of species (149) was noted at Morse Creek at the 0.0' stratum. However, at the +1' stratum the highest number of species was found at Shannon Point (116). At the +4.0' stratum, Shannon Point and Partridge Point had a greater number of species than did Morse Creek or North Beach. In general Shannon Point had the greatest number of species through the intertidal range.

When numbers of individuals are compared,however, Morse Creek and North Beach had greater numbers of individuals per $0.25m^2$ at most strata than Shannon Point or Partridge Point. (Except the 0.0' strata where Partridge Point had the greatest number of individuals per $0.25m^2$.)

When biomass is examined, at the lower strata Partridge Point and Shannon Point had greater biomass per $0.25m^2$ than Morse Creek and North Beach.

Table 21

Comparison of Sand Sites. North Beach Sand, Kydaka Beach - Strait of Juan de Fuca. West Beach - Whidbey Island. Birch Bay - Southern Georgia Strait.

per $0.25m^2$

Elevation	North Beach Sand (moderate exposure)			Kydaka Beach (exposed)			West Beach (moderate exposure)			Birch Bay (moderate protected)		
	# of species	# of individuals	biomass	# of species	# of individuals	biomass	# of species	# of individuals	biomass	# of species	# of individuals	biomass
+ 7.0 '	4	67	2	3	7	1						
+ 6.0 '	9	52	4	6	12	1.2	5	50	0.3			
+ 5.0 '	4	130	2	3	10	1	5	94	0	28	71	28
+ 4.0 '	7	37	3	3	10	1	1	30	0	32	78	31
+ 3.0 '	10	132	5	14	140	3	7	200	0	38	58	35
+ 2.0 '	11	1678	9	3	72	1	2	334	0.5	39	60	36
+ 1.0 '	9	887	6	7	25	2	0	355	0.2	40	112	39
0.0 '	18	298	8	11	12	3	8	9870	24	37	60	37
- 1.0 '							2	6339	11	38	125	37
- 5.0 m	163	1324	97	51	575	13	45	1700	25			
- 10.0 m	109	1470	15	53	1142	13	64	2200	56			

Table 22

Comparison of Cobble Sites. North Beach, Morse Creek - Strait of Juan de Fuca. Partridge Point - Whidbey Island. Shannon Point - Anacortes.

per $0.25m^2$

Elevation	North Beach (moderate exposure)			Morse Creek (moderate exposure)			Partridge Point (exposed)			Shannon Point (moderate exposure)		
	# of species	# of individuals	biomass	# of species	# of individuals	biomass	# of species	# of individuals	biomass	# of species	# of individuals	biomass
+ 7.0 '	8	45	1	6	101	0.5				20	400	50
+ 6.0 '	25	176	5	5	2167	1.0	13	31	0.7	35	700	150
+ 5.0 '	44	3432	138	9	842	10	20	658	16	43	1100	180
+ 4.0 '	23	1714	30	41	6844	104	55	6404	328	58	975	175
+ 3.0 '	54	13,387	591	62	6514	142	51	4128	199	70	1000	180
+ 2.0 '	49	9835	218	51	9096	223	66	2623	243	114	1050	630
+ 1.0 '	75	12,928	223	70	2981	328	64	1952	807	116	750	350
+ 0.0 '	78	2109	43	149	6950	1016	102	7749	1239	118	900	200
- 1.0 '							106	13,252	1406	45	1100	100
- 5.0 '				74	373	26	81	1805	140			
- 10.0 '				149	2215	9	101	962	128			

Table 23

Comparison of Gravel Sites. Dungeness Spit, Twin Rivers - Strait of Juan de Fuca. Ebey's Landing - Whidbey Island. Lego Bay - Lummi Island.

per $0.25m^2$

Elevation	Dungeness Spit (exposed)			Twin Rivers (exposed)			Ebey's Landing (exposed)			Lego Bay (moderate exposure)		
	# of species	# of individuals	biomass	# of species	# of individuals	biomass	# of species	# of individuals	biomass	# of species	# of individuals	biomass
+ 7.0 '	2	10	1	2	30	1						
+ 6.0 '	6	15	3	4	76	2	6	50	0	13	175	4
+ 5.0 '	2	57	1	2	100	1	4	94	0	23	200	5
+ 4.0 '	3	10	1	3	227	1	3	30	0	13	200	13
+ 3.0 '	4	91	2	4	267	2	7	199	0.1	18	700	10
+ 2.0 '	2	520	1	2	27	1	5	334	0.4	18	900	13
+ 1.0 '	2	10	1	4	12	2	6	355	0.2	18	1800	28
+ 0.0 '	2	3	1	7	109	3	14	9970	24	14	600	16
- 1.0 '							13	6339	11	23	450	17
- 5.0 '	30	71	7	139	1320	5	83	1585	141			
- 10.0 '	90	957	34	65	1523	2	107	1483	386			

Since both Morse Creek and North Beach had greater numbers of individuals at the strata the size of organisms must have been relatively small at these habitats.

At the higher strata intertidally (+5.0' to +7.0') Shannon Point had greater biomass than the other cobble habitats. Since Morse Creek and North Beach had greater numbers of individuals at these strata, again the size of organisms must have been relatively small.

Subtidally at the cobble habitats of Morse Creek and Partridge Point there was no clear pattern of dominance in species number, number of individuals or biomass. At -5.0m Partridge Point had a greater number of species and individuals and greater biomass. At -10m Morse Creek had a greater number of species and individuals but lower biomass than Partridge Point. The size of organisms at Morse Creek must have been relatively small at this stratum.

4.4.3 Gravel Habitat

Gravel sites compared included Dungeness Spit and Twin Rivers on the Strait of Juan de Fuca, Ebey's Landing on Whidbey Island and Legoe Bay on the Northwest side of Lummi Island (Table 23).

Intertidally species richness was relatively low. Of the sites Legoe Bay showed the greatest species richness with up to 23 species taken at the +5.0' stratum. Except for Ebey's Landing where the amphipod Paramoera mohri was so common, the numbers of individuals and biomass generally followed species richness. Legoe Bay had generally the greatest number of individuals and biomass per stratum.

There was no clear pattern of change in species numbers with change in tide height at any of the gravel habitats except Ebey's Landing where there was an increase in species richness at the 0.0' and -1.0' strata.

Subtidally there was no clear patterns of change in species richness, numbers of individuals or biomass at -5.0m and -10m at the three gravel sites: at the -5.0m stratum, Twin Rivers had the greatest number of species and individuals, but lowest biomass indicating relatively small organisms. At the -10.0m Ebey's Landing had the highest species number, number of individuals and biomass.

Species richness, numbers of individuals and biomass subtidally at the gravel habitat were similar to that of the cobble habitats.

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6. BIBLIOGRAPHY

Abbott, I. A., and G. J. Hollenberg. 1975. Marine Algae of California Stanford University Press. 832 pp.

Banse, K., and K. D. Hobson. 1974. Benthic erantiate polychaetes of British Columbia and Washington. Bull.Fish.Res.Bd.Canada. 185: I-III.

Battelle Northwest, 1974. Biological Baseline. Pacific Northwest Laboratories, Richland, Washington. 59 pp.

Barnard, J. L. 1969. The families and genera of Marine Gamaridean Amphipods. Bull. U.S. Nat. Mus. 271:1-535.

Barnard, J. L. 1975. Identification of gammaridean amphipods. In: R. I. Smith and J. T. Carlton. Intertidal Invertebrates of the Central California Coast. U. of Calif. Press. Los Angeles, Calif. 314-352.

Coan, E. V. 1971. The Northwest American Tellinidae. Veliger 14. supplement 1-63.

Coan, E. V. 1977. Preliminary Review of the North American Carditidae. Veliger 19. 375-386.

D.O.E. 1978. Baseline studies of Puget Sound. Washington State Department of Ecology. Olympia.

Eberhart, L. Appraising Variability in Population Studies. J. Wildl. Mangae. 42(2). 207-238.

Fauchald, K. 1977. The Polychaete Worms. Definitions and Keys to the Orders, Families and Genera. Natural History Museum of Los Angeles County. Science Series 28. 1-190.

Hartman, O. 1968. Atlas of the Errantiate Polychaetous Annelids from California. Allan Hancock Foundation, Los Angeles, Calif.

Hartman, O. 1969. Atlas of the Sedentariate Polychaetous Annelids from California. Allan Hancock Foundation, Los Angeles, Calif.

Hatch, M. H. 1947. The Chelifera and Isopoda of Washington and Adjacent Regions. Univ. Wash. Publ. Biol., 10:155-274.

Kozloff, E. N. 1974. Keys to the Main Invertebrates of Puget Sound, the San Juan Archipelelago, and Adjacent Regions. Univ. Wash. Press, Seattle, pp. 1-226.

NOAA, 1978. MESA, The Puget Sound Project: Marine Ecosystems Analysis Program, Boulder, Colorado.

Menzies, R. J. 1952. Some Marine Asellote Isopods from Northern California with Descriptions of Nine New Species. Proc. U.S. Nat. Mus. 102:117-159.

Menzies, R. J. 1954. A Review of the Systematics and Ecology of Genus Exosphaeroma with Description of a New Genus, a New Species, and a New Subspecies. (Crustacean: Isopods, Sphaeromatidae). Amer. Mus. Novit. #1683, 24 pp.

Nyblade, C. F. 1978. The Intertidal and Shallow Subtidal Benthos of the Strait of Juan de Fuca, 1976-1977. Marine Ecosystems Analysis Program, Boulder, Colorado.

Scagel, R. F. 1966. Marine Algae of British Columbia and Northern Washington. Part I. Chlorophyceae. Nat. Mus. Canada Bull. #207, 257 pp.

Schmitt, W. L. 1921. The Marine Decapod Crustacea of California. Univ. Calif. Publ. Zool. 23 1-470.

Smith, A. G. 1977. Preliminary Review of West Coast Chiton Nomenclature. Veliger 19:215-258.

Smith, R. I., and J. T. Carlton, eds. 1975. Light's Manual: Intertidal Invertebrates of the Central California Coast. Univ. Calif. Press, Berkeley. 1-716.

Webber, H. H., and G. F. Smith, 1978. A Biological Sampling Program of Intertidal Habitats of Northern Puget Sound. Washington State Department of Ecology, Olympia, Wash.

Widdowson, T. B. 1973. The Marine Algae of British Columbia and Northern Washington: A Revised List and Keys. Part I Phaeophyceae. Synesis, 6:81-96.

Widdowson, T. B. 1974. Part II. Rhodophyceae. Syesis 7:143-186.

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Appendix 1

Species list, number of species (NSPEC), species diversity index (SDI), total mean count (TMEANC), and total mean weight (TMEANW), for each Site, Season and Stratum. Values are numbers and biomass per $0.25m^2$ for animals, and biomass per $0.25m^2$ for plants. Data for all collection methods (except live seive) were recombined to a $0.25m^2$ format. Standard deviations are products of each collection method. The Coefficient of Variability is the standard deviation divided by the mean.

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
RHODOPHYTA DETRITUS	0.00	0.00	0.00	0.02	0.03	1.27
CAPITELLIDAE	1.00	2.24	2.24	0.00	0.00	0.00
PSEPHIDIA LORDI	1.00	2.24	2.24	0.00	0.00	0.00
ARCHAEOMYSIS GREBNITZ	5.00	5.00	1.00	0.02	0.04	2.24

NSPEC	SDI	TMEANC	TMEANW
4.00	1.55	7.00	0.04

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
RHODOPHYTA DETRITUS	0.00	0.00	0.00	0.19	0.25	1.35
NEMERTEA	7.00	5.70	0.81	0.00	0.00	0.00
PARAMOERA MOHRI	4.00	5.48	1.37	0.02	0.04	2.24
ORCHESTOIDEA PUGETTEN	2.00	2.74	1.37	0.05	0.07	1.42
FISH EGG	1.00	2.24	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
5.00	2.11	14.00	0.25

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
RHODOPHYTA DETRITUS	0.00	0.00	0.00	0.15	0.22	1.48
ZOSTERA MARINA	0.00	0.00	0.00	0.02	0.04	2.24
PSEPHIDIA LORDI	1.00	2.24	2.24	0.02	0.04	2.24
ORCHESTOIDEA RUGETTEN	4.00	4.18	1.05	0.03	0.04	1.09

NSPEC	SDI	TMEANC	TMEANW
4.00	1.33	5.00	0.22

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
RHYNCHOCOELA	1.67	2.89	1.73	0.03	0.05	1.73
CEREBRATULUS CALIFORN	3.33	2.89	0.87	0.08	0.10	1.31
PHYLLODOCE MEDIPAPILL	1.67	2.89	1.73	0.30	0.51	1.73
GLYCINDE PICTA	8.33	2.99	0.35	0.37	0.24	0.63
LUMBRINERIS ZONATA	3.33	5.77	1.73	0.98	1.66	1.70
SCOLOPLOS ARMIGER	1.67	2.89	1.73	0.06	0.07	1.20
APONIDES SP.	3.33	2.89	0.87	0.01	0.02	1.73
ARMANDIA BREVIS	1.67	2.89	1.73	0.03	0.05	1.73
ENCHYTRAEIDAE	1.67	2.89	1.73	0.01	0.02	1.73
MYSELLA TUMIDA	3.33	2.89	0.87	0.01	0.02	1.73
TELLINA MODESTA	1.67	2.89	1.73	0.05	0.08	1.73
PSEPHIDIA LORDI	16.67	7.64	0.46	0.09	0.05	0.56
DIASTYLOPSIS SP.	46.00	26.46	0.66	0.17	0.14	0.83
GNORIMOSPHAEROMA OREG	1.67	2.89	1.73	0.01	0.02	1.73
AMPHIPODA GAMMARIDAE	3.33	2.89	0.87	0.03	0.02	0.87
EOHAUSTORIUS WASHINGT	10.00	10.00	1.00	0.04	0.05	1.04
PARAPHOXUS ARRONIUS-	156.67	31.75	0.20	0.98	0.46	0.47
PARAPHOXUS SPINOSUS	21.67	20.21	0.93	0.71	0.84	1.18

NSPEC	SDI	TMEANC	TMEANW
18.00	2.60	281.67	3.97

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
POLYCHAETA	273.33	473.43	1.73	0.01	0.02	1.73
NEREIS SP.	0.00	0.00	0.00	0.03	0.05	1.73
GLYCINDE PICTA	6.67	2.89	0.43	0.31	0.38	1.24
SCOLOPLOS ARMIGER	11.67	5.77	0.49	0.09	0.05	0.56
SPIOPHANES BOMBYX	26.67	14.43	0.54	0.36	0.29	0.81
MALACOCEROS GLUTAEUS	23.33	36.17	1.55	0.13	0.19	1.47
NUCULANA HAMATA	1.67	2.89	1.73	0.00	0.00	0.00
MYSELLA TUMIDA	1.67	2.89	1.73	0.00	0.00	0.00
CLINOCARDIUM NUTTALLI	1.67	2.89	1.73	0.06	0.11	1.73
TELLINA MODESTA	3.33	2.89	0.87	0.23	0.40	1.73
PSEPHIDIA LORDI	23.33	28.43	1.22	0.35	0.57	1.63
NEBALIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
DIASTYLIS SP.	8.33	14.43	1.73	0.05	0.08	1.73
DIASTYLOPSIS SP.	10.00	17.32	1.73	0.05	0.08	1.73
LEPTOSTYLIS SP.	30.00	39.69	1.32	0.14	0.18	1.23
LEPTOCHELIA SAVIGNYI	1.67	2.89	1.73	0.00	0.00	0.00
SYNIDOTEA BICUSPIDA	5.00	8.66	1.73	0.05	0.08	1.73
AMPELISCA AGASSIZI	10.00	17.32	1.73	0.03	0.05	1.73
ATYLUS COLLINGI	3.33	2.89	0.87	0.06	0.07	1.20
AMPHIPODA GAMMARIDAE	96.67	142.24	1.47	0.13	0.11	0.87
PHOTIS SP.	30.00	22.91	0.76	0.09	0.05	0.56
HIPPOMEDON DENTICULAT	3.33	2.89	0.87	0.04	0.05	1.04
SYNCHELIDIUM SHOEMAKE	1.67	2.89	1.73	0.01	0.02	1.73
PARAPHOXUS SP. B	401.67	143.64	0.36	2.08	1.06	0.51
PARAPHOXUS SPINOSUS	10.00	8.66	0.87	0.17	0.15	0.88
TIRON SP.	11.67	10.41	0.89	0.24	0.22	0.92

NSPEC	SDI	TMEANC	TMEANW
26.00	2.48	998.33	4.71

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
RHYNCHOCOELA	11.67	5.77	0.49	0.06	0.03	0.51
CEREBRATULUS CALIFORN	11.67	5.77	0.49	0.08	0.07	0.93
POLYNOIDAE	1.67	2.89	1.73	0.01	0.02	1.73
PHOLOE MINUTA	48.33	40.10	0.83	0.57	0.55	0.96
PHYLLODOCE GROENLANDI	3.33	2.89	0.87	0.04	0.05	1.04
NEPHTYS FERRUGINEA	8.33	5.77	0.69	0.14	0.13	0.94
GLYCINDE SP.	5.00	8.66	1.73	0.01	0.02	1.73
GLYCINDE PICTA	20.00	18.03	0.90	0.28	0.24	0.87
GONIADA BRUNNEA	1.67	2.89	1.73	0.00	0.00	0.00
ONUPHIS CONCHYLEGA	1.67	2.89	1.73	1.35	2.33	1.73
ONUPHIS ELEGANS	28.33	44.81	1.58	0.83	1.44	1.73
LUMBRINERIS ZONATA	10.00	17.32	1.73	0.11	0.20	1.73
LUMBRINERIS INFLATA	1.67	2.89	1.73	0.05	0.08	1.73
NAINERIS LAEVIGATA	1.67	2.89	1.73	0.01	0.02	1.73
SCOLOPLOS ARMIGER	33.33	35.12	1.05	2.35	3.64	1.55
ORBINIA MICHAELSENI	1.67	2.89	1.73	0.60	1.03	1.73
SPIONIDAE	1.67	2.89	1.73	0.01	0.02	1.73
PRIONOSPIO CIRRIFERA	3.33	5.77	1.73	0.00	0.00	0.00
SPIOPHANES BOMBYX	10.00	13.23	1.32	0.03	0.05	1.73
CAULLERIELLA GRACILIS	1.67	2.89	1.73	0.00	0.00	0.00
SCALIBREGMA INFLATUM	15.00	15.00	1.00	0.16	0.20	1.28
ARMANDIA BREVIS	8.33	7.64	0.92	0.04	0.05	1.04
CAPITELLA CAPITATA	5.00	0.00	0.00	0.00	0.00	0.00
MEDIOMASTUS SP.	8.33	14.43	1.73	0.01	0.02	1.73
PRAXILLELLA AFFINIS P	3.33	5.77	1.73	0.01	0.02	1.73
OWENIA FUSIFORMIS	6.67	11.55	1.73	0.01	0.02	1.73
ODOSTOMIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
NUCULA TENUIS	3.33	5.77	1.73	0.05	0.08	1.73
NUCULANA HAMATA	11.67	12.58	1.08	0.16	0.20	1.28
YOLDIA MYALIS	5.00	8.66	1.73	1.08	1.88	1.73
AXINOPSIDA SERRICATA	18.33	31.75	1.73	0.00	0.00	0.00
MYSELLA TUMIDA	103.33	85.05	0.82	0.29	0.26	0.91
CLINOCARDIUM NUTTALLI	8.33	14.43	1.73	0.05	0.08	1.73
TELLINA MODESTA	33.33	17.56	0.53	0.20	0.09	0.47
PSEPHIDIA LORDI	273.33	177.51	0.65	2.13	1.33	0.62
OSTRACODA	3.33	2.89	0.87	0.00	0.00	0.00
DIASTYLOPSIS SP.	8.33	5.77	0.69	0.06	0.03	0.51
LEPTOCHELIA SAVIGNYI	66.67	90.74	1.36	0.08	0.10	1.31
AMPELISCA AGASSIZI	13.33	2.89	0.22	0.07	0.03	0.39
PHOTIS SP.	6.67	7.64	1.15	0.03	0.02	0.87
SYNCHELIDIUM SHOEMAKE	1.67	2.89	1.73	0.01	0.02	1.73
PARAPHOXUS SP. B	125.00	62.45	0.50	0.31	0.20	0.66
BRACHYURA	11.67	12.58	1.08	0.00	0.00	0.00
PINNIXA OCCIDENTALIS	15.00	21.79	1.45	0.05	0.08	1.73
OPHIUROIDEA	85.00	86.75	1.02	16.03	4.14	0.26

NSPEC	SDI	TMEANC	TMEANW
45.00	3.57	1048.33	27.35

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	3.00	6.71	2.24	0.00	0.00	0.00
OLIGOCHAETA	2.00	2.74	1.37	0.00	0.00	0.00
LACUNA VARIEGATA	1.00	2.24	2.24	0.00	0.00	0.00
PARALLORCHESTES OCHOT	2.00	4.47	2.24	0.01	0.02	2.24
EGG MASSES	1.00	2.24	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
5.00	1.68	9.00	0.01

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	6.67	11.55	1.73	0.00	0.00	0.00
IDOTEA SP.	1.67	2.89	1.73	0.01	0.02	1.73
AOROIDES COLUMBIAE	1.67	2.89	1.73	0.00	0.00	0.00
PARAMOERA MOHRI	1.67	2.89	1.73	0.00	0.00	0.00
HYALE FREQUENS	1.67	2.89	1.73	0.00	0.00	0.00
PARALLORCHESTES OCHOT	1.67	2.89	1.73	0.00	0.00	0.00
PHOTIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PUGETTIA GRACILIS	1.67	2.89	1.73	0.00	0.00	0.00
STAPHYLINIDAE	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
9.00	2.02	20.00	0.01

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PSEPHIDIA LORDI	1.67	2.89	1.73	0.00	0.00	0.00
PARAMOERA MOHRI	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
2.00	0.69	3.33	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	6.00	8.94	1.49	0.00	0.00	0.00
NEMATODA	1.00	2.24	2.24	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	3.00	6.71	2.24	0.00	0.00	0.00
LACUNA VARIEGATA	1.00	2.24	2.24	0.00	0.00	0.00
CHTHAMALUS DALLI	1.00	2.24	2.24	0.01	0.02	2.24
ARCHAEOMYSIS GREBNITZ	1.00	2.24	2.24	0.01	0.02	2.24
IDOTEA SP.	3.00	4.47	1.49	0.00	0.00	0.00
PARAMOERA MOHRI	4.00	6.52	1.63	0.01	0.02	2.24
HYALE FREQUENS	2.00	4.47	2.24	0.00	0.00	0.00
CARABIDAE	1.00	2.24	2.24	0.01	0.02	2.24

NSPEC	SDI	TMEANC	TMEANW
10.00	2.43	23.00	0.03

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ZOSTERA MARINA	1.67	2.89	1.73	0.00	0.00	0.00
NEMERTEA	1.67	2.89	1.73	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	5.00	8.66	1.73	0.00	0.00	0.00
POLYCHAETA	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
4.00	1.24	10.00	0.00

No species taken.

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PHYLLODOCE SP.	1.00	2.24	2.24	0.00	0.00	0.00
NEREIS SP.	1.00	2.24	2.24	0.65	1.45	2.24
ARCHAEOMYSIS GREBNITZ	7.00	5.70	0.81	0.03	0.04	1.09
PARAMOERA MOHRI	1.00	2.24	2.24	0.00	0.00	0.00
PHOXOCEPHALIDAE	1.00	2.24	2.24	0.00	0.00	0.00
INSECTA	1.00	2.24	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
6.00	2.09	12.00	0.68

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CHAETOZONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
PSEPHIDIA LORDI	1.67	2.89	1.73	0.00	0.00	0.00
ARCHAEOMYSIS GREBNITZ	20.00	20.00	1.00	0.09	0.08	0.87
HAUSTORIIDAE	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
4.00	1.23	25.00	0.09

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ENTEROMORPHA SP.	0.00	0.00	0.00	0.06	0.11	1.73
ULVA LACTUCA	0.00	0.00	0.00	0.10	0.18	1.73
PROTODORVILLEA GRACIL	1.67	2.89	1.73	0.00	0.00	0.00
PARAONIS LYRA	6.67	5.77	0.87	0.00	0.00	0.00
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.00	0.00	0.00
CAPITELLIDAE	1.67	2.89	1.73	0.00	0.00	0.00
MEDIOMASTUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
AMPHARETE ARCTICA	1.67	2.89	1.73	0.00	0.00	0.00
PSEPHIDIA LORDI	5.00	5.00	1.00	0.03	0.02	0.87
ACANTHOMYSIS SP.	5.00	8.66	1.73	0.00	0.00	0.00
ARCHAEOMYSIS GREBNITZ	6.67	5.77	0.87	0.00	0.00	0.00
LAMPROPS SP.	13.33	10.41	0.78	0.00	0.00	0.00
DIASTYLOPSIS SP.	13.33	12.58	0.94	0.00	0.00	0.00
SPHAEROMATIDAE	1.67	2.89	1.73	0.00	0.00	0.00
EXOSPHAEROMA AMPLICAU	16.67	20.82	1.25	0.01	0.01	1.73
IDOTEA SP.	3.33	2.89	0.87	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	1.67	2.89	1.73	0.00	0.00	0.00
ATYLUS SP.	96.67	158.85	1.64	0.23	0.40	1.73
PONTOGENEIA INERMIS	25.00	13.23	0.53	0.11	0.06	0.54
PONTOGENEIA ROSTRATA	103.33	70.06	0.68	0.29	0.22	0.75
ANISOGAMMARUS PUGETTE	58.33	51.07	0.88	0.55	0.51	0.93
ANISOGAMMARUS CONFERV	25.00	10.00	0.40	0.17	0.10	0.60
PROTOMEDEIA (CHEIRIME	3.33	5.77	1.73	0.01	0.02	1.73
SYNCHELIDIUM SHOEMAKE	15.00	21.79	1.45	0.01	0.02	1.73
PHOXOCEPHALIDAE	15.00	10.00	0.67	0.03	0.02	0.87
CANCER SP. JUV.	1.67	2.89	1.73	0.03	0.05	1.73

NSPEC	SDI	TMEANC	TMEANW
26.00	2.97	425.00	1.64

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	3.33	5.77	1.73	0.05	0.08	1.73
NEPHTYS FERRUGINEA	1.67	2.89	1.73	17.75	30.74	1.73
ONUPHIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
SCOLOPLOS ARMIGER	8.33	2.89	0.35	0.11	0.10	0.90
PARAONIS LYRA	106.67	37.53	0.35	0.18	0.06	0.36
SCOLELEPIS FOLIOSA	1.67	2.89	1.73	0.03	0.05	1.73
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.00	0.00	0.00
MYSELLA TUMIDA	1.67	2.89	1.73	0.00	0.00	0.00
PSEPHIDIA LORDI	36.67	28.43	0.78	0.18	0.17	0.96
ARCHAEOMYSIS GREBNITZ	21.67	10.41	0.48	0.06	0.07	1.20
DIASTYLOPSIS SP.	90.00	25.98	0.29	0.14	0.09	0.64
AMPHIPODA GAMMARIDEA	1.67	2.89	1.73	0.01	0.02	1.73
PHOXOCEPHALIDAE	450.00	105.83	0.24	3.01	0.60	0.20
CICADELLIDAE	3.33	5.77	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
14.00	2.31	730.00	21.51

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NONOSTROMA FUSCUM	0.00	0.00	0.00	0.14	0.20	1.43
ULVA SP.	0.00	0.00	0.00	0.01	0.02	1.73
RHODOPHYCEAE	0.00	0.00	0.00	0.02	0.03	1.32
PORPHYRA SP.	0.00	0.00	0.00	0.33	0.57	1.73
NEOAGARDHIELLA BAILEY	0.00	0.00	0.00	0.06	0.10	1.73
PLOCAMIUM SP.	0.00	0.00	0.00	0.01	0.02	1.73
GRACILARIOPSIS SP.	0.00	0.00	0.00	0.00	0.01	1.73
CRYPTOPLEURA SP.	0.00	0.00	0.00	0.02	0.04	1.73
HYMENENA SP.	0.00	0.00	0.00	0.26	0.45	1.73
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	0.01	0.01	1.00
ZOSTERA MARINA	0.00	0.00	0.00	1.59	1.42	0.89
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	0.56	0.98	1.73
NEMERTEA	11.67	2.89	0.25	0.04	0.05	1.04
NEMATODA	3.33	2.89	0.87	0.00	0.00	0.00
APHRODITOIDEA	1.67	2.89	1.73	0.00	0.00	0.00
HARMOTHOE IMBRICATA	1.67	2.89	1.73	0.00	0.00	0.00
PHYLLODOCE MACULATA	1.67	2.89	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	3.33	5.77	1.73	0.00	0.00	0.00
NEREIS SP.	3.33	2.89	0.87	0.05	0.08	1.73
PLATYNEREIS BICANALIC	10.00	17.32	1.73	0.40	0.69	1.73
NEPHTYS CAECA	1.67	2.89	1.73	4.08	7.07	1.73
NEPHTYS LONGOSETOSA	1.67	2.89	1.73	0.35	0.60	1.73
NEPHTYS FERRUGINEA	1.67	2.89	1.73	6.65	11.51	1.73
GLYCERA SP.	1.67	2.89	1.73	0.01	0.02	1.73
GLYCINDE PICTA	21.67	12.58	0.58	0.32	0.06	0.18
ONUPHIS SP.	16.67	17.56	1.05	2.24	2.27	1.01
LUMBRINERIS SP.	6.67	7.64	1.15	0.33	0.58	1.73
SCOLOPLOS PUGETTENSIS	20.00	5.00	0.25	0.91	0.24	0.27
ORBINIA FELIX	1.67	2.89	1.73	1.13	1.96	1.73
PARAONIS LYRA	3.33	2.89	0.87	0.00	0.00	0.00
SPIOPHANES BOMBYX	58.33	22.55	0.39	0.34	0.09	0.25
MALACOCEROS GLUTAEUS	8.33	7.64	0.92	0.03	0.02	0.87
ARMANDIA BREVIS	3.33	5.77	1.73	0.00	0.00	0.00
MEDIOMASTUS SP.	8.33	7.64	0.92	0.03	0.02	0.87
AXIOTHELLA RUBROCINCT	5.00	5.00	1.00	0.23	0.36	1.58
OWENIA FUSIFORMIS	3.33	2.89	0.87	0.05	0.08	1.73
AMPHARETE ARCTICA	21.67	28.87	1.33	0.03	0.05	1.73
LACUNA SP.	11.67	16.07	1.38	0.01	0.02	1.73
NUCULA TENUIS	1.67	2.89	1.73	0.05	0.08	1.73
CLINOCARDIUM SP. JUV.	3.33	2.89	0.87	0.00	0.00	0.00
TRESUS CAPAX	1.67	2.89	1.73	0.01	0.02	1.73
TELLINA MODESTA	73.33	47.52	0.65	1.29	1.11	0.86
PSEPHIDIA LORDI	1131.67	390.07	0.34	9.76	3.25	0.33
NEBALIA PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
DIASTYLIS SP.	3.33	5.77	1.73	0.00	0.00	0.00
DIASTYLOPSIS SP.	18.33	10.41	0.57	0.03	0.02	0.87
LEPTOCHELIA SP.	70.00	82.61	1.18	0.03	0.05	1.73
SYNIDOTEA BICUSPIDA	1.67	2.89	1.73	0.10	0.17	1.73
AMPELISCA SP.	48.33	27.54	0.57	0.48	0.45	0.94
ADROIDES COLUMBIAE	1.67	2.89	1.73	0.00	0.00	0.00
PONTOGENEIA ROSTRATA	5.00	5.00	1.00	0.00	0.00	0.00
PHOTIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTOMEDEIA (CHEIRIME	748.33	78.16	0.10	0.81	0.13	0.16
ANONYX NUGAX	11.67	16.07	1.38	0.03	0.02	0.87
SYNCHELIDIUM SHOEMAKE	3.33	2.89	0.87	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PHOXOCEPHALIDAE	535.00	100.37	0.19	1.14	0.23	0.20
DECAPODA JUV.	6.67	5.77	0.87	0.01	0.02	1.73
PAGURUS SP. JUV.	1.67	2.89	1.73	0.00	0.00	0.00
PUGETTIA GRACILIS	1.67	2.89	1.73	0.01	0.02	1.73
CANCER SP. JUV.	5.00	8.66	1.73	0.01	0.02	1.73
OPHIUROIDEA	16.67	16.07	0.96	2.42	2.94	1.21

NSPEC	SDI	TMEANC	TMEANW
61.00	2.89	2926.66	36.42

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ULOTHRIX SP.	0.00	0.00	0.00	0.05	0.09	1.73
NEOAGARDHIELLA BAILEY	0.00	0.00	0.00	0.25	0.44	1.73
PLOCAMIUM SP.	0.00	0.00	0.00	0.06	0.10	1.73
FARLOWIA SP.	0.00	0.00	0.00	0.05	0.09	1.73
ZOSTERA MARINA	0.00	0.00	0.00	0.34	0.59	1.73
NEMERTEA	5.00	0.00	0.00	0.09	0.10	1.02
AMPHIPORUS BIMACULATU	1.67	2.89	1.73	0.00	0.00	0.00
NEMATODA	1.67	2.89	1.73	0.00	0.00	0.00
HARMOTHOE IMBRICATA	6.67	5.77	0.87	0.00	0.00	0.00
PHOLOE MINUTA	15.00	8.66	0.58	0.14	0.13	0.94
PHYLLODOCE SP.	6.67	7.64	1.15	0.39	0.40	1.00
PHYLLODOCE MACULATA	1.67	2.89	1.73	0.01	0.02	1.73
HESIONURA COINEAUI DI	1.67	2.89	1.73	0.00	0.00	0.00
EXOGONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	3.33	2.89	0.87	0.06	0.11	1.73
NEPHTYS LONGCSETOSA	3.33	2.89	0.87	0.08	0.10	1.31
GLYCINDE PICTA	26.67	2.89	0.11	0.43	0.08	0.19
ONUPHIS SP.	33.33	2.89	0.09	12.84	4.99	0.39
LUMBRINERIS SP.	8.33	7.64	0.92	0.16	0.15	0.92
SCOLOPLOS ARMIGER	6.67	5.77	0.87	1.18	2.01	1.70
SCOLOPLOS PUGETTENSIS	10.00	17.32	1.73	0.53	0.92	1.73
ORBINIA FELIX	5.00	5.00	1.00	2.19	1.93	0.88
ARICIDEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PARAONIS LYRA	5.00	5.00	1.00	0.00	0.00	0.00
LAONICE CIRRATA	1.67	2.89	1.73	0.10	0.17	1.73
POLYDORA SP.	5.00	8.66	1.73	0.05	0.08	1.73
PPIONOSPIO CIRRIFERA	5.00	5.00	1.00	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	1.67	2.89	1.73	0.00	0.00	0.00
SPIO FILICORNIS	1.67	2.89	1.73	0.01	0.02	1.73
SPIOPHANES BOMBYX	50.00	25.00	0.50	0.26	0.15	0.60
SPIOPHANES CIRRATA	1.67	2.89	1.73	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	11.67	5.77	0.49	0.03	0.02	0.87
NAGELONA PITELKAI	1.67	2.89	1.73	0.01	0.02	1.73
CHAETOZONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
SCALIBREGMA INFLATUM	5.00	5.00	1.00	0.11	0.13	1.12
ARMANDIA BREVIS	5.00	5.00	1.00	0.06	0.11	1.73
CAPITELLA CAPITATA	3.33	5.77	1.73	0.00	0.00	0.00
MEDIOMASTUS SP.	31.67	5.77	0.18	0.06	0.03	0.51
AXIOTHELLA RUBROCINCT	15.00	18.03	1.20	0.10	0.13	1.39
OWENIA FUSIFORMIS	5.00	0.00	0.00	0.00	0.00	0.00
PECTINARIA GRANULATA	1.67	2.89	1.73	0.21	0.37	1.73
LACUNA SP.	6.67	5.77	0.87	0.03	0.02	0.87
AMPHISSA SP.	1.67	2.89	1.73	0.01	0.02	1.73
MITRELLA TUBEROSA	1.67	2.89	1.73	0.28	0.48	1.73
NUCULA TENUIS	18.33	5.77	0.31	0.11	0.08	0.72
YOLDIA MYALIS	1.67	2.89	1.73	0.55	0.95	1.73
AXINOPSIDA SERRICATA	3.33	2.89	0.87	0.18	0.16	0.87
MYSELLA TUMIDA	130.00	70.00	0.54	0.41	0.39	0.96
CLINOCARDIUM SP. JUV.	56.67	25.17	0.44	0.16	0.13	0.80
SOLEN SP.	1.67	2.89	1.73	0.01	0.02	1.73
TELLINA MODESTA	43.33	23.63	0.55	0.64	0.50	0.78
PSEPHIDIA LORDI	2416.67	1073.06	0.44	13.98	3.97	0.28
OSTRACODA	1.67	2.89	1.73	0.00	0.00	0.00
NEBALIA PUGETTENSIS	10.00	5.00	0.50	0.00	0.00	0.00
LAMPROPS SP.	1.67	2.89	1.73	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
DIASTYLIS SP.	6.67	5.77	0.87	0.00	0.00	0.00
LEPTOCHELIA SP.	170.00	113.25	0.67	0.11	0.08	0.72
AMPHIPODA GAMMARIDEA	13.33	10.41	0.78	0.01	0.02	1.73
AMPELISCA SP.	5.00	5.00	1.00	0.01	0.02	1.73
PHOTIS SP.	56.67	37.86	0.67	0.01	0.02	1.73
PROTOMEDEIA (CHEIRIME	33.33	35.12	1.05	0.03	0.05	1.73
ANONYX NUGAX	5.00	8.66	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	521.67	29.30	0.06	0.68	0.17	0.25
CANCER SP. JUV.	10.00	17.32	1.73	0.03	0.05	1.73
OPHIUROIDEA	45.00	18.03	0.40	5.53	2.48	0.45

NSPEC	SDI	TMEANC	TMEANW
65.00	2.66	3855.00	42.62

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	11.67	5.77	0.49	0.14	0.05	0.36
HARMOTHOE IMBRICATA	1.67	2.89	1.73	0.01	0.02	1.73
PHOLOE MINUTA	120.00	42.72	0.36	1.27	0.43	0.33
PHYLLODOCE SP.	3.33	2.89	0.87	0.26	0.38	1.44
PHYLLODOCE MACULATA	5.00	5.00	1.00	0.01	0.02	1.73
HESIONURA COINEAUI DI	3.33	5.77	1.73	0.00	0.00	0.00
GYPTIS BREVIPALPA	3.33	2.89	0.87	0.00	0.00	0.00
NEPHTYS LONGOSETOSA	8.33	2.89	0.35	0.39	0.56	1.44
NEPHTYS FERRUGINEA	5.00	8.66	1.73	0.10	0.17	1.73
GLYCINDE PICTA	45.00	25.00	0.56	0.64	0.53	0.82
ONUPHIS SP.	23.33	5.77	0.25	3.18	0.86	0.27
LUMBRINERIS SP.	18.33	2.89	0.16	0.16	0.03	0.18
NAINERIS UNCINATA	1.67	2.89	1.73	0.03	0.05	1.73
SCOLOPLOS ARMIGER	58.33	57.52	0.99	0.95	1.43	1.51
SCOLOPLOS PUGETTENSIS	35.00	56.35	1.61	0.58	1.01	1.73
ORBINIA FELIX	3.33	2.89	0.87	0.14	0.21	1.50
POLYDORA SP.	18.33	5.77	0.31	0.21	0.13	0.61
PRIONOSPIO CIRRIFERA	51.67	15.28	0.30	0.04	0.00	0.00
PRIONOSPIO PINNATA	1.67	2.89	1.73	0.18	0.31	1.73
PRIONOSPIO STEENSTRUP	1.67	2.89	1.73	0.00	0.00	0.00
SPIO FILICORNIS	1.67	2.89	1.73	0.01	0.02	1.73
SPIOPHANES BOMBYX	45.00	17.32	0.39	0.16	0.13	0.80
SPIOPHANES CIRRATA	15.00	13.23	0.88	0.01	0.02	1.73
MALACOCEROS GLUTAEUS	1.67	2.89	1.73	0.00	0.00	0.00
MAGELONA PITELKAI	3.33	2.89	0.87	0.03	0.05	1.73
CHAETOZONE SP.	1.67	2.89	1.73	0.01	0.02	1.73
SCALIBREGMA INFLATUM	1.67	2.89	1.73	0.06	0.11	1.73
ARMANDIA BREVIS	6.67	2.89	0.43	0.04	0.05	1.04
MEDIOMASTUS SP.	45.00	15.00	0.33	0.07	0.03	0.39
AXIOTHELLA RUBROCINCT	6.67	7.64	1.15	0.01	0.02	1.73
OWENIA FUSIFORMIS	16.67	11.55	0.69	0.03	0.02	0.87
AMPHARETE ARCTICA	1.67	2.89	1.73	0.00	0.00	0.00
POLYCIRRUS KERGUELENS	3.33	5.77	1.73	0.03	0.05	1.73
AMPHISSA SP.	1.67	2.89	1.73	0.00	0.00	0.00
MITRELLA TUBEROSA	8.33	7.64	0.92	0.18	0.23	1.32
NUCULA TENUIS	51.67	15.28	0.30	0.71	0.20	0.28
NUCULANA HAMATA	1.67	2.89	1.73	0.08	0.14	1.73
YOLDIA MYALIS	1.67	2.89	1.73	0.00	0.00	0.00
AXINOPSIDA SERRICATA	51.67	28.43	0.55	1.44	0.69	0.48
MYSELLA TUMIDA	201.67	107.28	0.53	0.64	0.39	0.61
CLINOCARDIUM SP. JUV.	61.67	37.86	0.61	0.22	0.28	1.23
MACOMA NASUTA	1.67	2.89	1.73	0.01	0.02	1.73
TELLINA MODESTA	45.00	10.00	0.22	0.49	0.09	0.18
PSEPHIDIA LORDI	2131.67	358.13	0.17	15.04	5.23	0.35
OSTRACODA	1.67	2.89	1.73	0.00	0.00	0.00
NEBALIA PUGETTENSIS	10.00	5.00	0.50	0.01	0.02	1.73
ACANTHOMYSIS SP.	1.67	2.89	1.73	0.01	0.02	1.73
LEPTOCHELIA SP.	65.00	21.79	0.34	0.04	0.00	0.00
AMPELISCA SP.	26.67	37.86	1.42	0.11	0.16	1.43
CALLIOPIUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PHOTIS SP.	48.33	34.03	0.70	0.03	0.02	0.87
PROTOMEDEIA (CHEIRIME	21.67	29.30	1.35	0.01	0.02	1.73
LYSIANASSIDAE	3.33	5.77	1.73	0.01	0.02	1.73
ANONYX NUGAX	3.33	5.77	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	690.00	120.10	0.17	0.97	0.15	0.16

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PINNIXA OCCIDENTALIS	5.00	5.00	1.00	0.05	0.08	1.73
HEMIGRAPSUS OREGONENS	1.67	2.89	1.73	0.00	0.00	0.00
OPHIUROIDEA	413.33	119.30	0.29	75.59	23.02	0.30
EUPENTACTA QUINQUESEM	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
59.00	3.11	4423.32	104.43

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	2.00	4.47	2.24	0.00	0.00	0.00
LACUNA VARIEGATA	13.00	15.65	1.20	0.07	0.07	1.02
NUCELLA LAMELLOSA	1.00	2.24	2.24	4.94	11.04	2.24
IDOTEA SP.	1.00	2.24	2.24	0.00	0.00	0.00
ORCHESTOIDEA	13.00	13.51	1.04	0.10	0.14	1.34
STAPHYLINIDAE	3.00	4.47	1.49	0.00	0.00	0.00
DIPTERA SP.	1.00	2.24	2.24	0.00	0.00	0.00
TACHINIDAE	1.00	2.24	2.24	0.00	0.00	0.00
ECTOPROCTA	0.00	0.00	0.00	0.04	0.08	2.24
FISH EGG	1.00	2.24	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
10.00	2.45	36.00	5.15

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	16.00	12.45	0.78	0.00	0.00	0.00
EXOGONE SP.	1.00	2.24	2.24	0.00	0.00	0.00
HEMIPODUS BOREALIS	1.00	2.24	2.24	0.01	0.02	2.24
PARAONIS SP.	1.00	2.24	2.24	0.00	0.00	0.00
OLIGOCHAETA	8.00	7.58	0.95	0.00	0.00	0.00
LACUNA VARIEGATA	15.00	15.00	1.00	0.07	0.10	1.35
DIASTYLOPSIS SP.	1.00	2.24	2.24	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	1.00	2.24	2.24	0.00	0.00	0.00
PARAMOERA SP.	9.00	6.52	0.72	0.02	0.02	1.37
MELITA SP.	5.00	4.47	2.24	0.01	0.02	2.24
HYALE SP.	1.00	2.24	2.24	0.00	0.00	0.00
PHOTIS SP.	1.00	2.24	2.24	0.00	0.00	0.00
ORCHESTOIDEA	9.00	6.52	0.72	0.10	0.11	1.09
HEPTACARPUS SP.	1.00	2.24	2.24	0.01	0.02	2.24
CANCER SP.	1.00	2.24	2.24	0.42	0.93	2.24

NSPEC	SDI	TMEANC	TMEANW
15.00	3.20	68.00	0.63

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	17.00	29.92	1.76	0.01	0.02	2.24
NEMATODA	2.00	4.47	2.24	0.00	0.00	0.00
HESIONURA COINEAUI DI	8.00	17.89	2.24	0.00	0.00	0.00
TYPOSYLLIS SP.	3.00	6.71	2.24	0.00	0.00	0.00
EXOGONE SP.	2.00	2.74	1.37	0.01	0.02	2.24
SPHAEROSYLLIS PIRIFER	2.00	4.47	2.24	0.00	0.00	0.00
NEREIS VEXILLOSA	1.00	2.24	2.24	0.47	1.05	2.24
ONUPHIS SP.	2.00	4.47	2.24	0.02	0.04	2.24
PROTODORVILLEA GRACIL	129.00	285.67	2.21	0.02	0.04	2.24
MALACOCEROS GLUTAEUS	1.00	2.24	2.24	0.00	0.00	0.00
ARMANDIA BREVIS	4.00	6.52	1.63	0.00	0.00	0.00
MALDANIDAE	1.00	2.24	2.24	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	22.00	49.19	2.24	0.01	0.02	2.24
OLIGOCHAETA	33.00	73.79	2.24	0.01	0.02	2.24
LACUNA VARIEGATA	20.00	13.23	0.66	0.13	0.13	0.96
DIASTYLOPSIS SP.	1.00	2.24	2.24	0.00	0.00	0.00
GNORIMOSPHAEROMA SP.	21.00	24.60	1.17	0.03	0.06	2.24
EXOSPHAEROMA AMPLICAU	1.00	2.24	2.24	0.01	0.02	2.24
AMPHIPODA GAMMARIDEA	1.00	2.24	2.24	0.01	0.02	2.24
PARAMOERA SP.	660.00	907.08	1.37	1.45	1.98	1.37
PINNIXA SP.	1.00	2.24	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
21.00	1.72	932.00	2.16

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	3.33	5.77	1.73	0.03	0.05	1.73
NEMATODA	1.67	2.89	1.73	0.00	0.00	0.00
NEPHTYS CAECA	1.67	2.89	1.73	0.50	0.87	1.73
GLYCINDE PICTA	1.67	2.89	1.73	0.01	0.02	1.73
SCOLOPLOS ARMIGER	1.67	2.89	1.73	0.03	0.05	1.73
PARAONIS LYRA	1.67	2.89	1.73	0.00	0.00	0.00
SPIONIDAE	1.67	2.89	1.73	0.03	0.05	1.73
SCOLELEPIS FOLIOSA	6.67	7.64	1.15	0.14	0.21	1.50
SPIOPHANES BOMBYX	3.33	2.89	0.87	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	1.67	2.89	1.73	0.00	0.00	0.00
MALDANIDAE	1.67	2.89	1.73	0.01	0.02	1.73
OWENIA FUSIFORMIS	1.67	2.89	1.73	0.00	0.00	0.00
CLINOCARDIUM CILIATUM	1.67	2.89	1.73	0.01	0.02	1.73
PSEPHIDIA LORDI	85.00	10.00	0.12	1.06	0.03	0.03
CUMACEA	1.67	2.89	1.73	0.00	0.00	0.00
LAMPROPIDAE	1.67	2.89	1.73	0.00	0.00	0.00
DIASTYLOPSIS SP.	126.67	72.86	0.58	0.67	0.42	0.62
IDOTEA ACULEATA	1.67	2.89	1.73	0.03	0.05	1.73
AMPHIPODA GAMMARIDEA	1.67	2.89	1.73	0.00	0.00	0.00
AMPELISCA SP.	236.67	405.60	1.71	0.85	1.47	1.73
ATYLUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	26.67	10.41	0.39	0.01	0.02	1.73
PHOXOCEPHALIDAE	296.67	260.83	0.88	0.96	0.84	0.88
OPHIUROIDEA (AMPHIURI	1.67	2.89	1.73	0.23	0.40	1.73
DENDRASTER EXCENTRICU	1.67	2.89	1.73	138.48	239.85	1.73

NSPEC	SDI	TMEANC	TMEANW
25.00	2.24	913.33	143.06

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	5.00	5.00	1.00	0.03	0.05	1.73
HARMOTHOE IMBRICATA	6.67	7.64	1.15	0.04	0.05	1.04
PHOLOE MINUTA	1.67	2.89	1.73	0.00	0.00	0.00
PHYLLODOCE SP.	3.33	2.89	0.87	0.23	0.20	0.89
PHYLLODOCE MACULATA	8.33	5.77	0.69	0.00	0.00	0.00
ETEONE LONGA	1.67	2.89	1.73	0.00	0.00	0.00
MICROPODARKE DUBIA	3.33	2.89	0.87	0.00	0.00	0.00
EXOGONE SP.	3.33	2.89	0.87	0.00	0.00	0.00
NEREIS SP.	6.67	7.64	1.15	0.08	0.14	1.73
PLATYNEREIS BICANALIC	20.00	34.64	1.73	0.23	0.40	1.73
NEPHTYS CAECA	5.00	0.00	0.00	5.49	4.28	0.78
GLYCINDE PICTA	25.00	20.00	0.80	0.16	0.12	0.74
ONUPHIS SP.	43.33	23.63	0.55	11.11	10.17	0.92
LUMBRINERIS SP.	5.00	5.00	1.00	0.21	0.33	1.57
SCOLOPLOS PUGETTENSIS	28.33	5.77	0.20	1.22	0.60	0.49
ORRINIA FELIX	1.67	2.89	1.73	0.17	0.29	1.73
APICIDEA SP.	6.67	7.64	1.15	0.01	0.02	1.73
PARAONIS LYRA	1.67	2.89	1.73	0.00	0.00	0.00
POLYDORA SP.	3.33	5.77	1.73	0.01	0.02	1.73
PRIONOSPIO CIRRIFERA	3.33	5.77	1.73	0.00	0.00	0.00
SPIO FILICORNIS	1.67	2.89	1.73	0.01	0.02	1.73
SPIOPHANES BOMBYX	48.33	35.47	0.73	0.16	0.13	0.80
SPIOPHANES CIRRATA	1.67	2.89	1.73	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	141.67	118.46	0.84	0.18	0.17	0.96
ARMANDIA BREVIS	20.00	13.23	0.66	0.11	0.06	0.54
MEDIOMASTUS AMBISETA	13.33	14.43	1.08	0.01	0.02	1.73
BRANCHIOMALDANE VICEN	1.67	2.89	1.73	0.00	0.00	0.00
MALDANIDAE	1.67	2.89	1.73	0.00	0.00	0.00
OWENIA FUSIFORMIS	18.33	15.28	0.83	0.03	0.05	1.73
AMPHARETE ARCTICA	3.33	5.77	1.73	0.01	0.02	1.73
OLIGOCHAETA	1.67	2.89	1.73	0.00	0.00	0.00
LACUNA SP.	5.00	8.66	1.73	0.01	0.02	1.73
NUCULA TENUIS	6.67	7.64	1.15	0.06	0.07	1.20
MYSELLA TUMIDA	10.00	13.23	1.32	0.01	0.02	1.73
CLINOCARDIUM SP. JUV.	25.00	25.00	1.00	0.30	0.40	1.34
MACOMA SP. JUV.	3.33	5.77	1.73	0.01	0.02	1.73
TELLINA SP.	25.00	8.66	0.35	0.66	0.20	0.31
PSEPHIDIA LORDI	836.67	608.41	0.73	10.79	6.97	0.65
OSTRACODA	1.67	2.89	1.73	0.00	0.00	0.00
NEBALIA PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
LAMPROPIDAE	3.33	5.77	1.73	0.00	0.00	0.00
DIASTYLOPSIS SP.	56.67	64.29	1.13	0.24	0.23	0.96
TANAIDACEA SP. A	16.67	28.87	1.73	0.01	0.02	1.73
LEPTOCHELIA SAVIGNYI	193.33	334.86	1.73	0.13	0.23	1.73
AMPHIPODA GAMMARIDEA	6.67	7.64	1.15	0.00	0.00	0.00
AMPELISCA SP.	110.00	177.69	1.62	0.31	0.35	1.11
EONTOGENEIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PHOTIS SP.	8.33	14.43	1.73	0.00	0.00	0.00
PROTOMEDEIA (CHEIRIME	61.67	102.51	1.66	0.05	0.08	1.73
LYSIANASSIDAE	13.33	15.28	1.15	0.01	0.02	1.73
SYNCHELIDIUM SHOEMAKE	3.33	2.89	0.87	0.00	0.00	0.00
PHOXOCEPHALIDAE	145.00	134.26	0.93	0.16	0.15	0.92
PLEUSIRUS SECORRUS	6.67	11.55	1.73	0.00	0.00	0.00
HEPTACARPUS SP. JUV.	5.00	8.66	1.73	0.01	0.02	1.73
PAGURUS SP. JUV.	3.33	5.77	1.73	0.01	0.02	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CANCER SP.	5.00	8.66	1.73	0.43	0.74	1.73
OPHIUROIDEA (AMPHIURI	18.33	7.64	0.42	2.89	2.77	0.96

NSPEC	SDI	TMEANC	TMEANW
57.00	3.12	2010.00	35.63

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
COONTHALIA FLOCCOSA	0.00	0.00	0.00	1.04	1.81	1.73
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	0.10	0.18	1.73
PLATYHELMINTHES	3.33	5.77	1.73	0.01	0.02	1.73
NEMERTEA	10.00	5.00	0.50	0.15	0.13	0.89
HARMOTHOE IMPRICATA	13.33	10.41	0.78	0.08	0.07	0.93
PHOLOE MINUTA	33.33	23.63	0.71	0.21	0.16	0.78
PHYLLODOCE SP.	1.67	2.89	1.73	0.35	0.60	1.73
PHYLLODOCE MACULATA	18.33	5.77	0.31	0.03	0.02	0.87
ETEONE LONGA	1.67	2.89	1.73	0.01	0.02	1.73
EULALIA SP.	3.33	5.77	1.73	0.00	0.00	0.00
MICRODDARKE DUBIA	6.67	2.89	0.43	0.00	0.00	0.00
TYPOSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	3.33	2.89	0.87	0.04	0.05	1.04
PLATYNEREIS BICANALIC	23.33	16.07	0.69	0.06	0.05	0.87
NEPHTYS CAECA	1.67	2.89	1.73	0.01	0.02	1.73
NEPHTYS LONGOSETOSA	3.33	2.89	0.87	0.38	0.58	1.53
SPHAERODOROPSIS SPHAE	3.33	5.77	1.73	0.00	0.00	0.00
GLYCINDE PICTA	26.67	25.17	0.94	0.33	0.29	0.88
ONUPHIS SP.	43.33	34.03	0.79	19.83	19.49	0.98
LUMBRINERIS SP.	30.00	10.00	0.33	1.66	2.29	1.38
SCOLOPLOS PUGETTENSIS	76.67	24.66	0.32	1.01	0.46	0.45
ORBINIA FELIX	6.67	7.64	1.15	21.03	36.35	1.73
PARAONIS LYRA	3.33	2.89	0.87	0.00	0.00	0.00
LAONICE CIRRATA	18.33	11.55	0.63	0.87	0.95	1.08
POLYDORA SP.	1.67	2.89	1.73	0.01	0.02	1.73
POLYDORA SOCIALIS	5.00	0.00	0.00	0.03	0.05	1.73
PRIONOSPIO CIRRIFERA	13.33	7.64	0.57	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	3.33	2.89	0.87	0.23	0.25	1.10
SPIO FILICORNIS	3.33	2.89	0.87	0.01	0.02	1.73
SPIOPHANES BOMBYX	3.33	2.89	0.87	0.00	0.00	0.00
SPIOPHANES CIRRATA	1.67	2.89	1.73	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	1.67	2.89	1.73	0.00	0.00	0.00
MAGELONA PITELKAI	10.00	5.00	0.50	0.06	0.03	0.51
CHAETOZONE SP.	10.00	0.00	0.00	0.03	0.05	1.73
APMANDIA BREVIS	5.00	8.66	1.73	0.05	0.08	1.73
STERNASPIS SCUTATA	1.67	2.89	1.73	0.26	0.46	1.73
CAPITELLA CAPITATA	1.67	2.89	1.73	0.00	0.00	0.00
MEDIOMASTUS AMBISETA	16.67	14.43	0.87	0.03	0.05	1.73
MALDANIDAE	1.67	2.89	1.73	0.00	0.00	0.00
AXIOTHELLA RUBROCINCT	15.00	18.03	1.20	0.19	0.22	1.16
OWENIA FUSIFORMIS	21.67	10.41	0.48	0.01	0.02	1.73
PECTINARIA GRANULATA	10.00	5.00	0.50	0.46	0.76	1.66
AMPHARETE ARCTICA	6.67	2.89	0.43	0.01	0.02	1.73
PISTA SP.	1.67	2.89	1.73	0.05	0.08	1.73
SABELLIDAE	1.67	2.89	1.73	0.01	0.02	1.73
OLIGOCHAETA	1.67	2.89	1.73	0.00	0.00	0.00
MITRELLA TUBEROSA	5.00	5.00	1.00	0.04	0.05	1.04
CYLICHNA SP.	1.67	2.89	1.73	0.01	0.02	1.73
GASTROPTERON SP.	6.67	11.55	1.73	0.96	1.67	1.73
NUCULA TENUIS	60.00	21.79	0.36	0.72	0.47	0.65
YOLDIA SCISSURATA	23.33	12.58	0.54	2.51	2.18	0.87
AXINOPSIDA SERRICATA	55.00	22.91	0.42	0.79	0.31	0.40
MYSELLA TUMIDA	68.33	18.93	0.28	0.09	0.10	1.02
CLINOCARDIUM SP. JUV.	56.67	12.58	0.22	0.52	0.35	0.68
SOLEN SICARIUS	15.00	5.00	0.33	1.21	0.28	0.24

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MACOMA SP. JUV.	13.33	12.58	0.94	0.11	0.13	1.12
MACOMA ELIMATA	1.67	2.89	1.73	2.06	3.57	1.73
TELLINA SP.	21.67	7.64	0.35	0.28	0.21	0.74
PSEPHIDIA LORDI	886.67	114.49	0.13	10.23	1.18	0.12
MYA ARENARIA	1.67	2.89	1.73	0.01	0.02	1.73
LEPTOCHELIA SAVIGNYI	21.67	20.21	0.93	0.00	0.00	0.00
GAMMARIDEA SP. A	3.33	2.89	0.87	0.00	0.00	0.00
AMPELISCA SP.	10.00	5.00	0.50	0.06	0.03	0.51
PHOTIS SP.	30.00	22.91	0.76	0.00	0.00	0.00
PROTOMEDEIA SP.	5.00	5.00	1.00	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	1.67	2.89	1.73	0.00	0.00	0.00
WESTWOODILLA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	193.33	87.37	0.45	0.14	0.09	0.64
PLEUSIRUS SP.	5.00	5.00	1.00	0.00	0.00	0.00
PLEUSIRUS SECORRUS	1.67	2.89	1.73	0.00	0.00	0.00
UPOGEBIA PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
PAGURUS SP. JUV.	3.33	5.77	1.73	0.01	0.02	1.73
CANCER SP.	5.00	8.66	1.73	0.01	0.02	1.73
OPHIUROIDEA (AMPHIURI	158.33	53.46	0.34	33.97	14.45	0.43
EURENTACTA QUINQUESEM	6.67	2.89	0.43	0.29	0.40	1.35

NSPEC	SDI	TMEANC	TMEANW
75.00	3.66	2136.66	102.70

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	2.00	4.47	2.24	0.00	0.00	0.00
POLYCHAETA	2.00	4.47	2.24	0.00	0.00	0.00
OLIGOCHAETA	1.00	2.24	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
3.00	1.05	5.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	8.33	5.77	0.69	0.00	0.00	0.00
ARCHIANNELIDA	1.67	2.89	1.73	0.00	0.00	0.00
OLIGOCHAETA	15.00	10.00	0.67	0.00	0.00	0.00
PARAMOERA MOHRI	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
4.00	1.86	26.67	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	3.33	5.77	1.73	0.00	0.00	0.00
ARCHIANNELIDA	3.33	5.77	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
2.00	0.69	6.67	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ANTHOPLEURA ELEGANTIS	1.00	2.24	2.24	0.02	0.04	2.24
PLATYHELMINTHES	1.00	2.24	2.24	0.00	0.00	0.00
NEMERTEA	20.00	41.98	2.10	0.00	0.00	0.00
ARCHIANNELIDA	1.00	2.24	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
4.00	0.70	23.00	0.02

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	3.33	5.77	1.73	0.00	0.00	0.00
ARCHIANNELIDA	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
2.00	0.64	5.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
HEPTACARPUS SP.	1.67	2.89	1.73	0.03	0.05	1.73

NSPEC	SDI	TMEANC	TMEANW
1.00	0.00	1.67	0.03

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	19.00	42.49	2.24	0.00	0.00	0.00
EMPLECTONEMA GRACILE	1.00	2.24	2.24	0.15	0.34	2.24
LUMBRINERIS SP.	1.00	2.24	2.24	0.31	0.69	2.24
PARAONELLA PLATYBRANC	1.00	2.24	2.24	0.00	0.00	0.00
PHOXOCEPHALIDAE	3.00	2.74	0.91	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
5.00	0.98	25.00	0.46

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	1.67	2.89	1.73	0.00	0.00	0.00
POLYCHAETA	1.67	2.89	1.73	0.00	0.00	0.00
PARAONELLA PLATYBRANC	5.00	5.00	1.00	0.01	0.02	1.73

NSPEC	SDI	TMEANC	TMEANW
3.00	1.33	8.33	0.01

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
TYPOSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
HEMIPODUS BOREALIS	1.67	2.89	1.73	0.01	0.02	1.73
ARICIDEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PARAONELLA PLATYBRANC	16.67	28.87	1.73	0.01	0.02	1.73
SPIOPHANES BOMBYX	5.00	5.00	1.00	0.00	0.00	0.00
ARMANDIA BREVIS	1.67	2.89	1.73	0.01	0.02	1.73
MYSELLA TUMIDA	1.67	2.89	1.73	0.00	0.00	0.00
PSEPHIDIA LORDI	3.33	2.89	0.87	0.01	0.02	1.73
DIASTYLIS SP.	5.00	8.66	1.73	0.01	0.02	1.73
DIASTYLOPSIS SP.	13.33	7.64	0.57	0.03	0.02	0.87
LEPTOCHELIA SAVIGNYI	3.33	2.89	0.87	0.00	0.00	0.00
EGGS (CRUSTACEA:ISOPO	26.67	46.19	1.73	0.00	0.00	0.00
TECTICEPS PUGETTENSIS	5.00	8.66	1.73	0.01	0.02	1.73
PHOTIS BREVIPES	3.33	5.77	1.73	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	16.67	11.55	0.69	0.00	0.00	0.00
PHOXOCEPHALIDAE	250.00	31.22	0.12	0.56	0.10	0.19
CRANGON SP.	13.33	10.41	0.78	0.26	0.33	1.30

NSPEC	SDI	TMEANC	TMEANW
17.00	2.27	370.00	0.92

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	1.67	2.89	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
GLYCINDE PICTA	1.67	2.89	1.73	0.01	0.02	1.73
ONUPHIS SP.	5.00	5.00	1.00	0.00	0.00	0.00
LUMBRINERIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
SCOLOPLOS ARMIGER	8.33	14.43	1.73	0.15	0.25	1.73
SCOLOPLOS PUGETTENSIS	13.33	7.64	0.57	3.14	1.95	0.62
SPIOPHANES BOMBYX	6.67	5.77	0.87	0.01	0.02	1.73
MALACOCEROS GLUTAEUS	11.67	7.64	0.65	0.03	0.02	0.87
ARMANDIA BREVIS	1.67	2.89	1.73	0.00	0.00	0.00
CAPITELLA CAPITATA	1.67	2.89	1.73	0.00	0.00	0.00
LACUNA VARIEGATA	1.67	2.89	1.73	0.00	0.00	0.00
MYSELLA TUMIDA	6.67	11.55	1.73	0.01	0.02	1.73
CLINOCARDIUM SP.	1.67	2.89	1.73	0.00	0.00	0.00
TELLINA SP.	1.67	2.89	1.73	0.17	0.29	1.73
PSEPHIDIA LORDI	126.67	40.41	0.32	1.18	0.60	0.51
CEPHALASPIDEA	3.33	2.89	0.87	0.05	0.08	1.73
DIASTYLIS SP.	30.00	5.00	0.17	0.12	0.03	0.23
LEPTOSTYLIS SP.	70.00	18.03	0.26	0.07	0.03	0.39
TECTICEPS PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
SYNIDOTEA SP.	3.33	2.89	0.87	0.03	0.02	0.87
AMPELISCA MACROCEPHAL	3.33	2.89	0.87	0.08	0.14	1.73
AMPELISCA AGASSIZI	1.67	2.89	1.73	0.00	0.00	0.00
HAUSTORIIDAE	1.67	2.89	1.73	0.00	0.00	0.00
PHOTIS BREVIPES	5.00	5.00	1.00	0.00	0.00	0.00
PROTOMEDEIA (CHEIRIME	1.67	2.89	1.73	0.00	0.00	0.00
ORCHOMENE SP.	1.67	2.89	1.73	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	1.67	2.89	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	543.33	63.31	0.12	1.23	0.03	0.03
CRANGON SP.	1.67	2.89	1.73	0.05	0.08	1.73
OPHIUROIDEA	1.67	2.89	1.73	0.21	0.37	1.73
ECHINOIDEA SP. JUV.	3.33	5.77	1.73	0.01	0.02	1.73

NSPEC	SDI	TMEANC	TMEANW
32.00	2.50	868.33	6.55

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
GRACILARIA SP.	0.00	0.00	0.00	0.01	0.02	1.73
NEOPTILOTA ASPLENIOID	0.00	0.00	0.00	0.00	0.00	0.00
CRYPTOPLEURA SP.	0.00	0.00	0.00	0.02	0.03	1.73
PTEROCHONDRIA SP.	0.00	0.00	0.00	0.00	0.00	0.00
ZOSTERA MARINA	0.00	0.00	0.00	0.42	0.73	1.73
NEMERTEA	5.00	5.00	1.00	0.03	0.02	0.87
POLYCHAETA	0.00	0.00	0.00	0.11	0.20	1.73
HARMOTHOE IMBRICATA	3.33	2.89	0.87	0.00	0.00	0.00
PHYLLODOCE SP.	15.00	15.00	1.00	0.09	0.10	1.02
EULALIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
MICRODDARKE DUBIA	1.67	2.89	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	3.33	5.77	1.73	0.00	0.00	0.00
NEREIS SP.	3.33	2.89	0.87	0.03	0.05	1.73
NEPHTYS LONGOSETOSA	1.67	2.89	1.73	0.00	0.00	0.00
GLYCINDE PICTA	21.67	20.21	0.93	0.28	0.36	1.32
ONUPHIS SP.	10.00	17.32	1.73	0.23	0.40	1.73
LUMBRINERIS SP.	0.00	0.00	0.00	0.01	0.02	1.73
NAINERIS SP.	1.67	2.89	1.73	0.03	0.05	1.73
SCOLOPLOS PUGETTENSIS	21.67	7.64	0.35	2.29	2.65	1.16
ORBINIA FELIX	1.67	2.89	1.73	0.03	0.05	1.73
ARICIDEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
SPIOPHANES BOMBYX	45.00	39.69	0.88	0.18	0.20	1.12
MALACOCEROS GLUTAEUS	50.00	55.68	1.11	0.03	0.05	1.73
ARMANDIA BREVIS	5.00	5.00	1.00	0.00	0.00	0.00
MEDIOMASTUS AMBISETA	18.33	10.41	0.57	0.03	0.02	0.87
OWENIA FUSIFORMIS	3.33	5.77	1.73	0.00	0.00	0.00
TEREBELLIDAE	3.33	5.77	1.73	0.03	0.05	1.73
TELLINA MODESTA	50.00	10.00	0.20	1.12	0.41	0.36
PSEPHIDIA LORDI	161.67	109.70	0.68	2.03	1.34	0.66
OSTRACODA	1.67	2.89	1.73	0.00	0.00	0.00
CALANOIDA	1.67	2.89	1.73	0.00	0.00	0.00
NEBALIA PUGETTENSIS	3.33	2.89	0.87	0.03	0.02	0.87
DIASTYLOPSIS SP.	5.00	5.00	1.00	0.03	0.02	0.87
TANAIDACEA SP. A	3.33	2.89	0.87	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	41.67	23.63	0.57	0.03	0.02	0.87
AMPHIPODA GAMMARIDEA	5.00	5.00	1.00	0.01	0.02	1.73
AMPELISCA MACROCEPHAL	20.00	5.00	0.25	0.36	0.46	1.29
AMPELISCA AGASSIZI	163.33	66.40	0.41	1.64	1.08	0.66
PONTOGENEIA SP.	3.33	2.89	0.87	0.00	0.00	0.00
PROTOMEDEIA (CHEIRIME	18.33	23.63	1.29	0.00	0.00	0.00
ORCHOMENE SP.	5.00	5.00	1.00	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	1.67	2.89	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	598.33	235.07	0.39	0.96	0.28	0.29
PARAPLEUSTES SP.	3.33	2.89	0.87	0.00	0.00	0.00
PUGETTIA RICHII	1.67	2.89	1.73	0.10	0.17	1.73
OPHIUROIDEA	5.00	5.00	1.00	0.24	0.39	1.59

NSPEC	SDI	TMEANC	TMEANW
46.00	3.05	1311.66	10.39

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	13.33	10.41	0.78	0.13	0.15	1.17
HARMOTHOE IMBRICATA	5.00	5.00	1.00	0.00	0.00	0.00
PHOLOE MINUTA	21.67	18.93	0.87	0.28	0.26	0.91
PHYLLODOCE SP.	6.67	7.64	1.15	0.01	0.02	1.73
MICRODDARKE DUBIA	5.00	8.66	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	3.33	5.77	1.73	0.01	0.02	1.73
NEPHTYS LONGOSETOSA	1.67	2.89	1.73	0.06	0.11	1.73
SPHAERODOROPSIS SPHAE	1.67	2.89	1.73	0.00	0.00	0.00
GLYCINDE PICTA	36.67	23.63	0.64	0.41	0.25	0.62
ONUPHIS SP.	50.00	36.06	0.72	5.96	5.85	0.98
LUMBRINERIS SP.	3.33	2.89	0.87	0.06	0.05	0.87
SCOLOPLOS PUGETTENSIS	71.67	20.21	0.28	1.52	0.69	0.46
ORBINIA FELIX	3.33	2.89	0.87	0.11	0.16	1.43
ARICIDEA SP.	6.67	5.77	0.87	0.00	0.00	0.00
POLYDORA SP.	1.67	2.89	1.73	0.01	0.02	1.73
POLYDORA SOCIALIS	1.67	2.89	1.73	0.01	0.02	1.73
PRIONOSPIO CIRRIFERA	13.33	7.64	0.57	0.00	0.00	0.00
PRIONOSPIO PINNATA	1.67	2.89	1.73	0.00	0.00	0.00
SPIOPHANES BOMBYX	33.33	30.14	0.90	0.06	0.05	0.87
MALACOCEROS GLUTAEUS	6.67	2.89	0.43	0.00	0.00	0.00
ARMANDIA BREVIS	18.33	5.77	0.31	0.13	0.11	0.87
MEDIOMASTUS AMBISETA	20.00	18.03	0.90	0.04	0.05	1.04
MALDANIDAE	21.67	18.93	0.87	0.13	0.13	0.96
OWENIA FUSIFORMIS	6.67	7.64	1.15	0.00	0.00	0.00
GASTROPTERON PACIFICU	1.67	2.89	1.73	0.38	0.66	1.73
NUCULA TENUIS	13.33	7.64	0.57	0.36	0.31	0.86
YOLDIA SCISSURATA	3.33	5.77	1.73	0.03	0.05	1.73
AXINOPSIDA SERRICATA	10.00	17.32	1.73	0.38	0.66	1.73
MYSELLA TUMIDA	165.00	154.33	0.93	0.80	0.82	1.03
CLINOCARDIUM SP.	13.33	2.89	0.22	0.28	0.23	0.83
SPISULA FALCATA	3.33	2.89	0.87	0.11	0.10	0.90
SOLEN SICARIUS	1.67	2.89	1.73	0.01	0.02	1.73
TELLINA SP.	40.00	69.28	1.73	0.53	0.92	1.73
TELLINA MODESTA	30.00	30.00	1.00	0.49	0.45	0.92
PSEPHIDIA LORDI	901.67	375.24	0.42	9.83	4.22	0.43
NEBALIA PUGETTENSIS	5.00	5.00	1.00	0.01	0.02	1.73
DIASTYLIS SP.	3.33	2.89	0.87	0.00	0.00	0.00
LEPTOSTYLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
TANAIDACEA SP. A	13.33	15.28	1.15	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	296.67	256.63	0.87	0.16	0.15	0.92
AMPELISCA MACROCEPHAL	10.00	0.00	0.00	0.00	0.00	0.00
AMPELISCA AGASSIZI	31.67	25.17	0.79	0.13	0.11	0.87
PONTOGENEIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTOMEDEIA (CHEIRIME	15.00	13.23	0.88	0.00	0.00	0.00
ORCHOMENE SP.	3.33	2.89	0.87	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	3.33	2.89	0.87	0.00	0.00	0.00
PHOXOCEPHALIDAE	525.00	160.00	0.30	0.58	0.10	0.17
PARAPLEUSTES SP.	3.33	5.77	1.73	0.00	0.00	0.00
OPHIUROIDEA	55.00	39.05	0.71	12.11	10.08	0.83

NSPEC	SDI	TMEANC	TMEANW
50.00	3.20	2508.33	35.12

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	0.02	0.04	1.73
AHNFELTIA PLICATA	0.00	0.00	0.00	0.00	0.01	1.73
CORALLINA SP.	0.00	0.00	0.00	0.00	0.01	1.73
NEOPTILOTA ASPLENIOID	0.00	0.00	0.00	0.03	0.05	1.73
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.02	0.03	1.73
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	0.03	0.05	1.73
PTEROCHONDRIA SP.	0.00	0.00	0.00	0.00	0.00	0.00
ZOSTERA MARINA	0.00	0.00	0.00	0.94	1.63	1.73
PLATYHELMINTHES	3.33	5.77	1.73	0.00	0.00	0.00
NEMERTEA	16.67	2.89	0.17	0.04	0.05	1.04
NEMATODA	3.33	5.77	1.73	0.00	0.00	0.00
POLYCHAETA	0.00	0.00	0.00	0.08	0.14	1.73
HARMOTHOE IMBRICATA	10.00	8.66	0.87	0.01	0.02	1.73
PHOLOE MINUTA	11.67	16.07	1.38	0.05	0.08	1.73
PHYLLODOCE SP.	11.67	2.89	0.25	2.24	3.55	1.58
ETEONE LONGA	1.67	2.89	1.73	0.00	0.00	0.00
EULALIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
MICRODODARKE DUBIA	6.67	7.64	1.15	0.00	0.00	0.00
TYPOSYLLIS SP.	6.67	5.77	0.87	0.00	0.00	0.00
EXOGONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	5.00	8.66	1.73	0.18	0.31	1.73
PLATYNEREIS BICANALIC	6.67	11.55	1.73	0.06	0.11	1.73
NEPHTYS LONGOSETOSA	10.00	8.66	0.87	0.24	0.31	1.27
NEPHTYS FERRUGINEA	1.67	2.89	1.73	0.03	0.05	1.73
GLYCINDE PICTA	36.67	16.07	0.44	0.31	0.21	0.67
ONUPHIS SP.	26.67	11.55	0.43	6.23	3.69	0.59
LUMBRINERIS SP.	30.00	21.79	0.73	0.19	0.22	1.15
DORVILLEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
SCOLOPLOS PUGETTENSIS	108.33	2.89	0.03	0.99	0.39	0.40
ORBINIA FELIX	5.00	5.00	1.00	0.84	0.93	1.10
ARICIDEA SP.	3.33	2.89	0.87	0.00	0.00	0.00
PARAONELLA PLATYBRANC	18.33	27.54	1.50	0.00	0.00	0.00
LAONICE CIRRATA	11.67	7.64	0.65	1.31	1.01	0.77
POLYDORA SP.	6.67	7.64	1.15	0.11	0.16	1.43
PRIONOSPIO CIRRIFERA	16.67	10.41	0.62	0.00	0.00	0.00
SPIO FILICORNIS	1.67	2.89	1.73	0.03	0.05	1.73
SPIOPHANES BOMBYX	6.67	5.77	0.87	0.01	0.02	1.73
SPIOPHANES CIRRATA	1.67	2.89	1.73	0.00	0.00	0.00
MAGELONA SP.	1.67	2.89	1.73	0.00	0.00	0.00
CHAETOZONE SP.	5.00	8.66	1.73	0.00	0.00	0.00
ARMANDIA BREVIS	8.33	10.41	1.25	0.03	0.05	1.73
CAPITELLA CAPITATA	6.67	2.89	0.43	0.00	0.00	0.00
MEDIOMASTUS AMBISETA	6.67	2.89	0.43	0.00	0.00	0.00
MALDANIDAE	16.67	7.64	0.46	0.11	0.12	1.10
AXIOTHELLA RUBROCINCT	1.67	2.89	1.73	0.00	0.00	0.00
OWENIA FUSIFORMIS	10.00	5.00	0.50	0.01	0.02	1.73
PECTINARIA GRANULATA	1.67	2.89	1.73	0.06	0.11	1.73
TEREBELLIDAE	3.33	2.89	0.87	0.09	0.05	0.56
PISTA CRISTATA	6.67	7.64	1.15	0.23	0.25	1.10
CHONE SP.	8.33	7.64	0.92	2.38	2.40	1.01
OLIGOCHAETA	3.33	5.77	1.73	0.00	0.00	0.00
POLINICES LEWISII	1.67	2.89	1.73	2.11	3.66	1.73
CYLICHNA SP.	1.67	2.89	1.73	0.01	0.02	1.73
GASTROPTERON PACIFICU	1.67	2.89	1.73	0.15	0.25	1.73
NUCULA TENUIS	28.33	2.89	0.10	0.49	0.10	0.20

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
YOLDIA SCISSURATA	6.67	11.55	1.73	1.68	2.91	1.73
AXINOPSIDA SERRICATA	11.67	7.64	0.65	0.09	0.05	0.56
MYSELLA TUMIDA	18.33	5.77	0.31	0.06	0.03	0.51
CLINOCARDIUM SP.	6.67	11.55	1.73	0.03	0.05	1.73
SPISULA FALCATA	1.67	2.89	1.73	0.06	0.11	1.73
SOLEN SICARIUS	5.00	8.66	1.73	0.05	0.08	1.73
TELLINA SP.	28.33	12.58	0.44	0.46	0.20	0.43
PSEPHIDIA LORDI	370.00	185.20	0.50	3.58	1.97	0.55
CALANOIDA	1.67	2.89	1.73	0.00	0.00	0.00
NEBALIA PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
LEPTOSTYLIS SP.	3.33	5.77	1.73	0.00	0.00	0.00
TANAIDACEA SP. A	5.00	0.00	0.00	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	85.00	73.65	0.87	0.04	0.05	1.04
AMPELISCA AGASSIZI	15.00	5.00	0.33	0.08	0.07	0.93
AORDIDES COLUMBIAE	1.67	2.89	1.73	0.00	0.00	0.00
PHOTIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PHOTIS BREVIPES	1.67	2.89	1.73	0.00	0.00	0.00
ORCHOMENE SP.	5.00	5.00	1.00	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	1.67	2.89	1.73	0.00	0.00	0.00
WESTWOODILLA SP.	3.33	2.89	0.87	0.00	0.00	0.00
PHOXOCEPHALIDAE	235.00	44.44	0.19	0.17	0.03	0.17
HEPTACARPUS BREVIROST	1.67	2.89	1.73	0.06	0.11	1.73
PUGETTIA RICHII	3.33	5.77	1.73	0.40	0.69	1.73
CANCER SP.	1.67	2.89	1.73	0.10	0.17	1.73
PINNIXA OCCIDENTALIS	6.67	7.64	1.15	0.06	0.07	1.20
OPHIURCIDEA	120.00	39.05	0.33	10.06	7.59	0.75

NSPEC	SDI	TMEANC	TMEANW
81.00	3.87	1429.99	36.67

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
RHYNCHOCCELA	5.00	7.07	1.41	0.00	0.00	0.00
LITTORINA SITKANA	1.25	2.50	2.00	1.03	2.07	2.00
LITTORINA SCUTULATA	7.50	5.00	0.67	0.41	0.32	0.78
NUCELLA LAMELLOSA	1.25	2.50	2.00	0.05	0.10	2.00
PLICIFUSUS SP. A	1.25	2.50	2.00	0.03	0.07	2.00
ODOSTOMIA SP.	1.25	2.50	2.00	0.01	0.02	2.00
PARAMOERA MOHRI	6.25	12.50	2.00	0.01	0.02	2.00

NSPEC	SDI	TMEANC	TMEANW
7.00	2.17	23.75	1.55

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PORPHYRA SP.	0.00	0.00	0.00	1.34	1.33	0.99
MICROCLADIA BOREALIS	0.00	0.00	0.00	0.01	0.02	2.00
DELESSERIACEAE	0.00	0.00	0.00	0.02	0.04	2.00
GONIMOPHYLLUM SKOTSBE	0.00	0.00	0.00	0.00	0.00	0.00
ODONTHALIA WASHINGTON	0.00	0.00	0.00	1.02	2.04	2.00
LOPHOSIPHONIA SP.	0.00	0.00	0.00	0.76	0.72	0.95
PTEROCHONDRIA WOODII	0.00	0.00	0.00	3.68	7.36	2.00
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	0.01	0.02	2.00
ANTHOPLEURA ELEGANTIS	6.25	12.50	2.00	13.63	27.25	2.00
EMPLECTONEMA GRACILE	6.25	12.50	2.00	0.50	1.00	2.00
NEMATODA	96.25	114.63	1.19	0.13	0.16	1.16
TYPOSYLLIS SP.	2.50	5.00	2.00	0.00	0.00	0.00
TYPOSYLLIS HYALINA	30.00	21.21	0.71	0.02	0.02	1.15
SPHAEROSYLLIS PIRIFER	5.00	7.07	1.41	0.00	0.00	0.00
EHLERSIA HETEROCH	10.00	11.55	1.15	0.01	0.02	2.00
ODONTOSYLLIS PARVA	1.25	2.50	2.00	0.00	0.00	0.00
NEREIS NEONEANTHES	1.25	2.50	2.00	0.01	0.02	2.00
HEMIPODUS BOREALIS	15.00	14.72	0.98	0.71	0.83	1.17
GONIADIDAE	1.25	2.50	2.00	0.01	0.02	2.00
ONUPHIS SP.	21.25	42.50	2.00	0.22	0.44	2.00
ONUPHIS IRIDESCENS	45.00	52.12	1.16	0.34	0.52	1.49
ONUPHIS STIGMATIS	15.00	26.77	1.78	0.03	0.07	2.00
LUMBRINERIS ZONATA	1.25	2.50	2.00	0.40	0.79	2.00
PROTODORVILLEA GRACIL	12.50	15.00	1.20	0.01	0.02	2.00
CIRRATULIDAE	0.00	0.00	0.00	0.20	0.39	2.00
CIRRATULUS CIRRATUS	1.25	2.50	2.00	0.31	0.56	1.81
CAPITELLIDAE	1.25	2.50	2.00	0.00	0.00	0.00
TEREBELLIDAE	1.25	2.50	2.00	0.38	0.75	2.00
SACCOCIRRUS EROTICUS	1.25	2.50	2.00	0.00	0.00	0.00
OLIGOCHAETA	88.75	96.21	1.08	0.03	0.04	1.31
ACMAEIDAE JUV.	38.75	74.20	1.91	0.00	0.00	0.00
COLLISELLA PELTA	137.50	275.00	2.00	3.88	7.75	2.00
COLLISELLA DIGITALIS	6.25	12.50	2.00	0.13	0.25	2.00
NOTOACMEA PERSONA	125.00	84.16	0.67	117.56	75.77	0.64
LITTORINA SITKANA	271.25	190.28	0.70	78.52	70.79	0.90
LITTORINA SCUTULATA	56.25	112.50	2.00	2.75	5.50	2.00
ALVINIA SP.	25.00	28.87	1.15	0.00	0.00	0.00
NUCELLA LAMELLOSA	21.25	14.36	0.68	28.59	39.25	1.37
GLYCYMERIS SP.	6.25	12.50	2.00	0.02	0.04	2.00
MYTILUS EDULIS	6.25	12.50	2.00	0.06	0.13	2.00
MYSELLA TUMIDA	3.75	7.50	2.00	0.01	0.02	2.00
CNORIMOSPHAEROMA OREG	2.50	2.89	1.15	0.00	0.00	0.00
IDOTEA SP.	6.25	12.50	2.00	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	1.25	2.50	2.00	0.00	0.00	0.00
PARAMOERA MOHRI	7.50	11.90	1.59	0.01	0.02	2.00
HEMIGRAPSUS NUDUS	3.75	7.50	2.00	12.58	25.17	2.00
LEPTASTERIAS HEXACTIS	6.25	12.50	2.00	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
47.00	3.36	1088.75	267.91

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
FILAMENTOUS DIATOMS	0.00	0.00	0.00	6.29	6.47	1.03
MONOSTROMA FUSCUM	0.00	0.00	0.00	23.64	16.18	0.68
ENTEROMORPHA LINZA	0.00	0.00	0.00	0.03	0.06	2.00
ULVA LACTUCA	0.00	0.00	0.00	0.01	0.01	2.00
ULVA LOBATA	0.00	0.00	0.00	45.09	39.04	0.87
HALICYSTIS OVALIS	0.00	0.00	0.00	0.00	0.01	2.00
LAMINARIA SP.	0.00	0.00	0.00	8.85	17.70	2.00
CYMATHERE TRIPLICATA	0.00	0.00	0.00	2.47	4.94	2.00
ALARIA SP.	0.00	0.00	0.00	35.40	40.60	1.15
FUCUS DISTICHUS	0.00	0.00	0.00	7.17	7.70	1.07
GIGARTINA SP.	0.00	0.00	0.00	59.34	48.72	0.82
IRIDAEA CORDATA	0.00	0.00	0.00	13.87	13.29	0.96
IRIDAEA HETEROCARPA	0.00	0.00	0.00	10.73	12.25	1.14
CRYPTOSIPHONIA WOODII	0.00	0.00	0.00	2.84	3.54	1.24
BOSSIELLA CALIFORNICA	0.00	0.00	0.00	0.03	0.06	2.00
MICROCLADIA BOREALIS	0.00	0.00	0.00	5.36	5.82	1.09
MICROCLADIA COULTERI	0.00	0.00	0.00	0.14	0.27	2.00
ANTITHAMNIONELLA SP.	0.00	0.00	0.00	0.02	0.05	2.00
HOLLENBERGIA SUBULATA	0.00	0.00	0.00	0.27	0.53	2.00
DELESSERIACEAE	0.00	0.00	0.00	0.01	0.02	2.00
POLYSIPHONIA PACIFICA	0.00	0.00	0.00	0.66	0.79	1.20
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	1.53	2.85	1.86
LAURENCIA SPECTABILIS	0.00	0.00	0.00	2.68	4.34	1.62
RHODOMELA LARIX	0.00	0.00	0.00	251.58	207.91	0.83
ODONTHALIA WASHINGTON	0.00	0.00	0.00	1.06	1.50	1.41
LOPHOSIPHONIA SP.	0.00	0.00	0.00	3.07	4.11	1.34
PTEROCHONDRIA WOODII	0.00	0.00	0.00	0.04	0.05	1.24
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	1.10	1.38	1.26
ANTHOPLEURA ELEGANTIS	25.00	35.36	1.41	21.25	31.27	1.47
RHYNCHOCOELA	2.50	2.89	1.15	0.01	0.02	2.00
EMPLECTONEMA GRACILE	1.25	2.50	2.00	0.01	0.02	2.00
NEMATODA	145.00	80.10	0.55	0.10	0.10	0.95
HALOSYDNA BREVISETOSA	3.75	4.79	1.28	3.93	4.85	1.23
EULALIA SP.	12.50	16.58	1.33	0.07	0.14	2.00
HESIONURA COINEAUI DI	5.00	10.00	2.00	0.00	0.00	0.00
TYPOSYLLIS SP.	53.75	28.69	0.53	0.13	0.09	0.69
TYPOSYLLIS ARMILLARIS	25.00	19.15	0.77	0.06	0.07	1.21
TYPOSYLLIS HYALINA	20.00	24.83	1.24	0.01	0.02	2.00
EXOGONE LOUREI	12.50	2.89	0.23	0.02	0.02	1.15
SPHAEROSYLLIS PIRIFER	5.00	7.07	1.41	0.00	0.00	0.00
EHLERSIA HETEROCH	3.75	7.50	2.00	0.00	0.00	0.00
NEREIS SP.	3.75	4.79	1.28	0.00	0.00	0.00
NEREIS NEONEANTHES	2.50	5.00	2.00	0.02	0.04	2.00
HEMIPODUS BOREALIS	7.50	8.66	1.15	0.28	0.51	1.81
ONUPHIS STIGMATIS	3.75	4.79	1.28	0.04	0.07	1.47
LUMBRINERIS SP.	0.00	0.00	0.00	0.78	1.04	1.33
LUMBRINERIS ZONATA	10.00	7.07	0.71	2.43	3.18	1.31
LUMBRINERIS INFLATA	1.25	2.50	2.00	0.00	0.00	0.00
DORVILLEA SP.	2.50	5.00	2.00	0.00	0.00	0.00
PROTODORVILLEA GRACIL	30.00	50.17	1.67	0.01	0.02	2.00
SPIOPHANES BOMBYX	1.25	2.50	2.00	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	1.25	2.50	2.00	0.00	0.00	0.00
CIRRATULIDAE	2.50	5.00	2.00	0.38	0.42	1.10
CIRRATULUS CIRRATUS	20.00	9.13	0.46	7.53	4.31	0.57
CAULLERIELLA SP.	1.25	2.50	2.00	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CHAETOZONE SETOSA	1.25	2.50	2.00	0.00	0.00	0.00
ARMANDIA BREVIS	10.00	14.14	1.41	0.04	0.05	1.15
CAPITELLIDAE	0.00	0.00	0.00	0.89	0.87	0.98
CAPITELLA SP.	2.50	5.00	2.00	0.01	0.02	2.00
CAPITELLA CAPITATA	2.50	5.00	2.00	0.01	0.02	2.00
MEDIOMASTUS SP.	1.25	2.50	2.00	0.01	0.02	2.00
BRANCHIOMALDANE SP.	1.25	2.50	2.00	0.01	0.02	2.00
AXIOTHELLA RUBROCINCT	1.25	2.50	2.00	0.01	0.02	2.00
AMPHARETE ARCTICA	1.25	2.50	2.00	0.00	0.00	0.00
TEREBELLIDAE	5.00	4.08	0.82	2.99	4.23	1.41
THELEPUS CRISPUS	15.00	20.00	1.33	4.07	3.28	0.81
SACCOCIRRUS ERGTICUS	5.00	4.08	0.82	0.00	0.00	0.00
OLIGOCHAETA	181.25	64.86	0.36	0.13	0.12	0.93
ACMAEIDAE JUV.	46.25	73.30	1.58	0.57	1.14	2.00
COLLISELLA PELTA	6.25	12.50	2.00	1.75	3.50	2.00
NOTOACMEA SCUTUM	6.25	12.50	2.00	14.94	29.88	2.00
NOTOACMEA PERSONA	12.50	14.43	1.15	14.38	17.56	1.22
MARGARITES HELICINUS	6.25	12.50	2.00	0.00	0.00	0.00
LACUNA SP.	100.00	168.33	1.68	27.06	48.69	1.80
LACUNA VARIEGATA	413.75	220.85	0.53	3.43	2.23	0.65
LITTORINA SITKANA	1.25	2.50	2.00	0.23	0.47	2.00
LITTORINA SCUTULATA	6.25	12.50	2.00	0.00	0.00	0.00
ALVINIA SP.	135.00	240.31	1.78	0.14	0.26	1.82
NATICA CLAUSA	6.25	12.50	2.00	0.00	0.00	0.00
NUCELLA LAMELLOSA	8.75	11.81	1.35	7.32	8.95	1.22
PLICIFUSUS SP. A	3.75	4.79	1.28	0.09	0.14	1.44
CYANOPLAX DENTIENS	16.25	13.15	0.81	0.32	0.62	1.92
TONICELLA LINEATA	6.25	12.50	2.00	0.00	0.00	0.00
GLYCYMERIS SP.	20.00	19.58	0.98	0.02	0.04	2.00
MYTILUS EDULIS	18.75	23.94	1.28	6.44	12.38	1.92
MYSELLA TUMIDA	1.25	2.50	2.00	0.00	0.00	0.00
SAXIDOMUS GIGANTEUS	1.25	2.50	2.00	80.66	161.32	2.00
BALANUS CRENATUS	31.25	37.50	1.20	7.63	8.80	1.15
EXOSPHAEROMA AMPLICAU	1.25	2.50	2.00	0.00	0.00	0.00
EXOSPHAEROMA MEDIA	3.75	7.50	2.00	0.00	0.00	0.00
IDOTEA OCHOTENSIS	0.00	0.00	0.00	37.50	75.00	2.00
IDOTEA ACULEATA	8.75	10.31	1.18	0.02	0.02	1.15
AMPHIPODA GAMMARIDEA	0.00	0.00	0.00	3.75	7.50	2.00
PARAMOERA MOHRI	1.25	2.50	2.00	0.00	0.00	0.00
HYALE FREQUENS	3.75	4.79	1.28	62.51	124.99	2.00
PUGETTIA GRACILIS	0.00	0.00	0.00	37.50	75.00	2.00
CANCER OREGONENSIS	2.50	5.00	2.00	0.53	1.07	2.00
SIPUNCULA	5.00	7.07	1.41	0.03	0.04	1.31
ECTOPROCTA CHEILOSTOM	0.00	0.00	0.00	0.15	0.29	2.00
LEPTASTERIAS HEXACTIS	18.75	37.50	2.00	5.06	10.13	2.00
EGG MASSES	0.00	0.00	0.00	9.38	18.75	2.00

NSPEC	SDI	TMEANC	TMEANW
101.00	3.80	1522.50	849.99

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
FILAMENTOUS DIATOMS	0.00	0.00	0.00	0.65	1.12	1.73
ULVA SP.	0.00	0.00	0.00	6.93	12.00	1.73
ALARIA MARGINATA	0.00	0.00	0.00	43.16	40.88	0.95
PORPHYRA SP.	0.00	0.00	0.00	1.97	2.33	1.18
SARCODIOTHECA FURCATA	0.00	0.00	0.00	0.48	0.49	1.01
AHNFELTIA SP.	0.00	0.00	0.00	0.56	0.98	1.73
GIGARTINACEA	0.00	0.00	0.00	2.21	3.82	1.73
GIGARTINA SP.	0.00	0.00	0.00	2.13	3.68	1.73
SCHIZYMENIA SP.	0.00	0.00	0.00	1.97	3.41	1.73
CORALLINACEAE	0.00	0.00	0.00	0.43	0.74	1.73
RHODYMENIA PERTUSA	0.00	0.00	0.00	0.39	0.67	1.73
MICROCLADIA SP.	0.00	0.00	0.00	0.18	0.16	0.90
CRYPTOPLEURA SP.	0.00	0.00	0.00	13.09	21.32	1.63
DELESSERIA DECIPIENS	0.00	0.00	0.00	2.65	4.60	1.73
HYMENENA SP.	0.00	0.00	0.00	20.04	32.71	1.63
BOTRYOGLOSSUM FARLOWI	0.00	0.00	0.00	14.99	21.80	1.45
LAURENCIA SPECTABILIS	0.00	0.00	0.00	22.32	38.00	1.70
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	198.48	339.23	1.71
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	473.60	818.12	1.73
IRIDACEAE	0.00	0.00	0.00	107.33	94.99	0.89
RHYNCHOCOELA	13.33	11.55	0.87	0.04	0.05	1.04
NEMATODA	21.67	17.56	0.81	0.00	0.00	0.00
HALOSYDNA BREVISETOSA	1.67	2.89	1.73	0.01	0.02	1.73
PHYLLODOCE CITRINA	1.67	2.89	1.73	0.00	0.00	0.00
ETEONE SP.	16.67	10.41	0.62	0.01	0.02	1.73
MICRODORKE DUBIA	3.33	2.89	0.87	0.00	0.00	0.00
TYPOSYLLIS SP.	8.33	7.64	0.92	0.01	0.02	1.73
TYPOSYLLIS HYALINA	18.33	20.21	1.10	0.03	0.05	1.73
EXOGONE LOUREI	5.00	5.00	1.00	0.00	0.00	0.00
NEREIS SP.	3.33	2.89	0.87	0.28	0.36	1.32
NEREIS PROCERA	3.33	5.77	1.73	0.03	0.05	1.73
HEMIPODUS BOREALIS	10.00	5.00	0.50	0.16	0.24	1.52
ONUPHIS STIGMATIS	6.67	7.64	1.15	0.06	0.05	0.87
LUMBRINERIS ZONATA	6.67	5.77	0.87	1.44	1.28	0.89
LUMBRINERIS INFLATA	1.67	2.89	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACII	21.67	25.66	1.18	0.01	0.02	1.73
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.00	0.00	0.00
CIRRATULUS CIRRATUS	5.00	5.00	1.00	1.48	2.27	1.54
CAULLERIELLA SP.	6.67	11.55	1.73	0.00	0.00	0.00
CAULLERIELLA ALATA	3.33	5.77	1.73	0.00	0.00	0.00
CAULLERIELLA GRACILIS	3.33	5.77	1.73	0.00	0.00	0.00
ARMANDIA BREVIS	3.33	5.77	1.73	0.01	0.02	1.73
MEDIOMASTUS SP.	3.33	5.77	1.73	0.00	0.00	0.00
THELEPUS CRISPUS	23.33	40.41	1.73	0.25	0.43	1.73
CHONE GRACILIS	1.67	2.89	1.73	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	26.67	20.21	0.76	0.01	0.02	1.73
OLIGOCHAETA	5.00	8.66	1.73	0.00	0.00	0.00
ENCHYTRAEIDAE	176.67	171.56	0.97	0.04	0.05	1.04
LACUNA VARIEGATA	8.33	14.43	1.73	0.06	0.11	1.73
ALVINIA SP.	26.67	30.55	1.15	0.08	0.07	0.93
NATICA CLAUSA	1.67	2.89	1.73	0.00	0.00	0.00
ODOSTOMIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
TONICELLA LINEATA	1.67	2.89	1.73	0.01	0.02	1.73
GLYCYMERIS SP.	35.00	37.75	1.08	0.09	0.10	1.02
MYSELLA TUMIDA	1.67	2.89	1.73	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CYCLOCARDIA SP.	1.67	2.39	1.73	0.00	0.00	0.00
CLINOCARDIUM CALIFORN	1.67	2.89	1.73	0.00	0.00	0.00
PSEPHIDIA LORDI	3.33	5.77	1.73	0.01	0.02	1.73
EXOSPHAEROMA AMPLICAU	5.00	5.00	1.00	0.01	0.02	1.73
IDOTEA SP.	1.67	2.89	1.73	0.10	0.17	1.73
IDOTEA ACULEATA	3.33	2.89	0.87	0.00	0.00	0.00
PONTOGENEIA INERMIS	3.33	5.77	1.73	0.03	0.05	1.73
AMPHIPODA GAMMARIDAE	1.67	2.89	1.73	0.01	0.02	1.73
HIPPOMEDON DENTICULAT	3.33	5.77	1.73	0.01	0.02	1.73
ORCHOMENE CF. PINQUIS	3.33	5.77	1.73	0.11	0.20	1.73
PARAPHOXUS SPINOSUS	1.67	2.89	1.73	0.01	0.02	1.73
PANDULUS SP.	1.67	2.89	1.73	0.01	0.02	1.73
CRYPTOLITHODES SITCHE	1.67	2.89	1.73	0.45	0.77	1.73
PUGETTIA GRACILIS	5.00	5.00	1.00	0.36	0.38	1.03
LOPHOPANOPEUS BELLUS	1.67	2.89	1.73	0.13	0.23	1.73

NSPEC	SDI	TMEANC	TMEANW
70.00	3.46	520.00	918.93

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
RHODOPHYCEAE	0.00	0.00	0.00	1.38	1.20	0.87
SARCODIOTHECA FURCATA	0.00	0.00	0.00	0.18	0.31	1.73
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	1.84	0.23	0.12
RHODOGLOSSUM SP.	0.00	0.00	0.00	0.15	0.27	1.73
CRYPTONEMIA SP.	0.00	0.00	0.00	0.22	0.39	1.73
CALLOPHYLLIS SP.	0.00	0.00	0.00	1.44	1.39	0.96
RHODYMENIA PERTUSA	0.00	0.00	0.00	0.59	0.80	1.37
ANTITHAMNION SP.	0.00	0.00	0.00	8.64	11.20	1.30
CERAMIUM SP.	0.00	0.00	0.00	0.01	0.01	1.73
PTILOTA SP.	0.00	0.00	0.00	0.34	0.59	1.73
DELESSERIA DECIPIENS	0.00	0.00	0.00	0.54	0.94	1.73
POLYNEURA LATISSIMA	0.00	0.00	0.00	1.08	1.86	1.73
RHODOPTILUM SP.	0.00	0.00	0.00	0.99	1.71	1.73
PTEROSIPHONIA DENDROI	0.00	0.00	0.00	0.78	0.71	0.91
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	14.73	12.76	0.87
LOPHOSIPHONIA VILLUM	0.00	0.00	0.00	0.02	0.03	1.73
IRIDACEAE	0.00	0.00	0.00	0.54	0.94	1.73
RHYNCHOCOELA	10.00	13.23	1.32	0.10	0.17	1.73
NEMATODA	23.33	17.56	0.75	0.01	0.02	1.73
HALOSYDNA BREVISETOSA	1.67	2.89	1.73	0.00	0.00	0.00
ETEONE SP.	5.00	5.00	1.00	0.05	0.08	1.73
HESIONURA COINEAUI DI	1.67	2.89	1.73	0.17	0.29	1.73
MICROPODARKE DUBIA	70.00	26.46	0.38	0.12	0.06	0.47
TYPOSYLLIS SP.	3.33	2.89	0.87	0.00	0.00	0.00
TYPOSYLLIS HYALINA	6.67	11.55	1.73	0.00	0.00	0.00
EXOGONE LOUPEI	23.33	11.55	0.49	0.00	0.00	0.00
HEMIPODUS BOREALIS	11.67	10.41	0.89	1.78	2.79	1.57
ONUPHIS STIGMATIS	6.67	2.89	0.43	0.04	0.05	1.04
LUMBRINERIS ZONATA	1.67	2.89	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACIL	1.67	2.89	1.73	0.00	0.00	0.00
SCOLOPLOS ARMIGER	13.33	15.28	1.15	0.06	0.05	0.87
PRIONOSPIO STEENSTRUP	3.33	5.77	1.73	0.01	0.02	1.73
SPIOPHANES BOMBYX	5.00	5.00	1.00	0.00	0.00	0.00
SPIOPHANES BERKELEYOR	6.67	7.64	1.15	0.06	0.11	1.73
MALACOCEROS GLUTAEUS	1.67	2.89	1.73	0.00	0.00	0.00
CIRRATULUS CIRRATUS	1.67	2.89	1.73	0.03	0.05	1.73
CAULLERIELLA SP.	6.67	11.55	1.73	0.01	0.02	1.73
ARMANDIA BREVIS	3.33	5.77	1.73	0.05	0.08	1.73
MEDIOMASTUS SP.	18.33	15.28	0.83	0.04	0.05	1.04
NICOMACHE PERSONATA	43.33	29.30	0.68	1.81	1.25	0.69
PRAXILLELLA AFFINIS P	3.33	5.77	1.73	0.00	0.00	0.00
TEREBELLIDAE	16.67	20.82	1.25	0.13	0.19	1.47
SABELLIDAE	1.67	2.89	1.73	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	5.00	8.66	1.73	0.00	0.00	0.00
OLIGOCHAETA	8.33	14.43	1.73	0.00	0.00	0.00
ENCHYTRAEIDAE	30.00	27.84	0.93	0.01	0.02	1.73
MARGARITES PUPILLUS	1.67	2.89	1.73	0.00	0.00	0.00
MARGARITES LIRULATUS	30.00	13.23	0.44	0.71	0.51	0.72
LACUNA VARIEGATA	10.00	17.32	1.73	0.10	0.17	1.73
ALVINIA SP.	10.00	13.23	1.32	0.01	0.02	1.73
CYANOPLAX DENTIENS	3.33	2.89	0.87	0.04	0.05	1.04
GLYCYMERIS SP.	596.67	175.52	0.29	2.43	0.83	0.34
MODIOLUS RECTUS	1.67	2.89	1.73	0.05	0.08	1.73
MYSELLA TUMIDA	13.33	15.28	1.15	0.01	0.02	1.73
CYCLOCARDIA SP.	5.00	0.00	0.00	0.01	0.02	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ASTARTE COMPACTA	6.67	5.77	0.87	0.11	0.13	1.12
MACOMA OBLIQUA	1.67	2.89	1.73	0.13	0.23	1.73
PSEPHIDIA LORDI	125.00	84.11	0.67	0.89	0.50	0.56
CALANIDAE	1.67	2.89	1.73	0.01	0.02	1.73
BALANUS CRENATUS	33.33	20.82	0.62	2.84	1.88	0.66
LEPTOCHELIA SAVIGNYI	26.67	33.29	1.25	0.01	0.02	1.73
EXOSPHAEROMA AMPLICAU	33.33	20.21	0.61	0.13	0.13	0.96
AMPHIPODA GAMMARIDAE	3.33	2.89	0.87	0.03	0.02	0.87
ELASMOPUS ANTENNATUS	1.67	2.89	1.73	0.01	0.02	1.73
MELITA DENTATA	1.67	2.89	1.73	0.01	0.02	1.73
LOPHOPANDPEUS BELLUS	5.00	5.00	1.00	0.73	0.75	1.03
LEPTOSYNAPTA CLARKI	13.33	7.64	0.57	0.79	0.30	0.37

NSPEC	SDI	TMEANC	TMEANW
67.00	3.28	1260.00	47.02

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
DESMARESTIA LIGULATA	0.00	0.00	0.00	0.54	0.94	1.73
NEOAGARDHIELLA BAILEY	0.00	0.00	0.00	0.81	1.29	1.60
SARCODIOTHECA FURCATA	0.00	0.00	0.00	0.50	0.87	1.73
PLOCAMIUM PACIFICUM	0.00	0.00	0.00	0.55	0.95	1.73
PLOCAMIUM VIOLACEUM	0.00	0.00	0.00	0.17	0.30	1.73
CRYPTONEMIA SP.	0.00	0.00	0.00	0.35	0.61	1.73
CALLOPHYLLIS SP.	0.00	0.00	0.00	12.31	10.51	0.85
RHODYMENIA SP.	0.00	0.00	0.00	1.19	2.06	1.73
RHODYMENIA PERTUSA	0.00	0.00	0.00	5.13	8.89	1.73
CERAMIACEAE	0.00	0.00	0.00	0.62	1.07	1.73
NIENBURGIA ANDERSONIA	0.00	0.00	0.00	0.13	0.22	1.73
PTILOTA SP.	0.00	0.00	0.00	1.30	2.25	1.73
HOLLENBERGIA SP.	0.00	0.00	0.00	0.92	1.59	1.73
DELESSERIACEAE	0.00	0.00	0.00	0.21	0.36	1.73
MEMBRANOPTERA SP.	0.00	0.00	0.00	0.70	0.39	0.55
PHYCODRYS SP.	0.00	0.00	0.00	0.04	0.08	1.73
POLYNEURA LATISSIMA	0.00	0.00	0.00	8.22	3.14	0.38
PTEROSIPHONIA DENDROI	0.00	0.00	0.00	0.80	0.86	1.08
LOPHOSIPHONIA VILLUM	0.00	0.00	0.00	0.03	0.05	1.73
RHYNCHOCOELA	13.33	12.58	0.94	0.24	0.39	1.59
CEREBRATULUS CALIFORN	13.33	2.89	0.22	0.27	0.28	1.01
NEMATODA	3.33	2.89	0.87	0.00	0.00	0.00
PHOLOE MINUTA	5.00	0.00	0.00	0.01	0.02	1.73
PHYLLODOCE CITRINA	1.67	2.89	1.73	0.11	0.20	1.73
ETEONE SP.	5.00	0.00	0.00	0.00	0.00	0.00
MICROPODARKE DUBIA	5.00	5.00	1.00	0.00	0.00	0.00
TYPOSYLLIS HYALINA	5.00	5.00	1.00	0.00	0.00	0.00
EXOGONE LOUREI	5.00	5.00	1.00	0.00	0.00	0.00
NEPHTYS FERRUGINEA	3.33	5.77	1.73	0.25	0.43	1.73
HEMIPODUS BOREALIS	13.33	7.64	0.57	0.18	0.20	1.12
GLYCINDE PICTA	1.67	2.89	1.73	0.00	0.00	0.00
LUMBRINERIS ZONATA	3.33	5.77	1.73	0.13	0.23	1.73
LUMBRINERIS INFLATA	3.33	5.77	1.73	0.01	0.02	1.73
DORVILLEA JAPONICA	1.67	2.89	1.73	0.08	0.14	1.73
PROTODORVILLEA GRACIL	5.00	5.00	1.00	0.00	0.00	0.00
PRIONOSPIO CIRRIFERA	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	8.33	2.89	0.35	0.06	0.03	0.51
SPIOPHANES BOMBYX	15.00	13.23	0.88	0.03	0.05	1.73
CIRRATULUS CIRRATUS	1.67	2.89	1.73	0.01	0.02	1.73
CAULLERIELLA SP.	5.00	8.66	1.73	0.00	0.00	0.00
CAULLERIELLA ALATA	5.00	8.66	1.73	0.00	0.00	0.00
CAULLERIELLA GRACILIS	3.33	2.89	0.87	0.00	0.00	0.00
THARYX MULTIFILIS	1.67	2.89	1.73	0.03	0.05	1.73
SCALIBREGMA INFLATUM	6.67	7.64	1.15	0.24	0.39	1.59
ARMANDIA BREVIS	1.67	2.89	1.73	0.00	0.00	0.00
CAPITELLA CAPITATA	1.67	2.89	1.73	0.00	0.00	0.00
MEDICMASTUS SP.	15.00	10.00	0.67	0.03	0.02	0.87
NICOMACHE PERSONATA	36.67	29.30	0.80	2.66	2.42	0.91
PRAXILLELLA AFFINIS P	8.33	7.64	0.92	0.01	0.02	1.73
AMPHARETE ARCTICA	10.00	13.23	1.32	0.00	0.00	0.00
TEREBELLIDAE	5.00	0.00	0.00	0.01	0.02	1.73
THELEPUS CRISPUS	10.00	13.23	1.32	0.08	0.14	1.73
TEREBELLIDES STROEMI	1.67	2.89	1.73	0.00	0.00	0.00
SABELLIDAE	15.00	13.23	0.88	0.04	0.05	1.04
CHONE GRACILIS	3.33	2.89	0.87	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
SABELLA CRASSICORNIS	1.67	2.89	1.73	0.03	0.05	1.73
CLIOCHAETA	5.00	5.00	1.00	0.00	0.00	0.00
ENCHYTRAEIDAE	10.00	13.23	1.32	0.00	0.00	0.00
ACMAEIDAE JUV.	1.67	2.89	1.73	0.00	0.00	0.00
NOTOACMEA SCUTUM	1.67	2.89	1.73	0.01	0.02	1.73
MARGARITES LIRULATUS	13.33	7.64	0.57	0.18	0.17	0.96
ALVINIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
CALYPTRAEA FASTIGIATA	13.33	2.89	0.22	0.24	0.35	1.42
PLICIFUSUS SP.	1.67	2.89	1.73	0.03	0.05	1.73
TURBONILLA SP.	1.67	2.89	1.73	0.03	0.05	1.73
BASILIOCHITON HEATHII	1.67	2.89	1.73	0.00	0.00	0.00
CYANOPLAX DENTIENS	11.67	7.64	0.65	0.11	0.08	0.72
TONICELLA LINEATA	1.67	2.89	1.73	0.00	0.00	0.00
LEPIDOZONA MERTENSII	8.33	7.64	0.92	0.15	0.25	1.73
CHAETOPLEURA GEMMA	3.33	2.89	0.87	0.00	0.00	0.00
NOPALIA SP. JUV.	1.67	2.89	1.73	0.00	0.00	0.00
GLYCYMERIS SP.	90.00	55.68	0.62	0.29	0.18	0.62
MODIOLUS RECTUS	6.67	5.77	0.87	4.26	7.35	1.72
MYSELLA TUMIDA	5.00	8.66	1.73	0.01	0.02	1.73
CYCLOCARDIA SP.	61.67	25.17	0.41	2.59	1.05	0.41
MIODONTISCUS PROLONGA	5.00	5.00	1.00	0.03	0.02	0.87
ASTARTE COMPACTA	115.00	49.24	0.43	28.42	12.88	0.45
CLINOCARDIUM CALIFORN	3.33	2.89	0.87	0.09	0.10	1.07
MACOMA SP.	3.33	5.77	1.73	0.01	0.02	1.73
TELLINA MODESTA	11.67	7.64	0.65	0.21	0.11	0.50
SAXIDOMUS GIGANTEUS	5.00	5.00	1.00	1.26	1.32	1.05
PSEPHIDIA LORDI	1.67	2.89	1.73	0.20	0.34	1.73
CYCLOPIDAE	1.67	2.89	1.73	0.01	0.02	1.73
BALANUS CRENATUS	71.67	67.88	0.95	8.99	11.94	1.33
LEPTOCHELIA SAVIGNYI	13.33	7.64	0.57	0.00	0.00	0.00
IDOTEA ACULEATA	6.67	7.64	1.15	0.01	0.02	1.73
AMPHIPODA GAMMARIDAE	10.00	10.00	1.00	0.06	0.07	1.20
HIPPOMEDON DENTICULAT	1.67	2.89	1.73	0.01	0.02	1.73
TIRON SP.	1.67	2.89	1.73	0.08	0.14	1.73
CREGONIA GRACILIS	1.67	2.89	1.73	0.26	0.46	1.73
PUGETTIA GRACILIS	1.67	2.89	1.73	0.43	0.74	1.73
LOPHOPANOPEUS BELLUS	3.33	2.89	0.87	0.39	0.45	1.15
PINNIXA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PINNIXA OCCIDENTALIS	1.67	2.89	1.73	0.00	0.00	0.00
GOLFINGIA PUGETTENSIS	3.33	2.89	0.87	2.70	2.52	0.94
OPHIUROIDEA	13.33	15.28	1.15	0.24	0.27	1.13
EUPENTACTA QUINQUESEM	1.67	2.89	1.73	0.03	0.05	1.73
LEPTOSYNAPTA CLARKI	6.67	5.77	0.87	0.16	0.24	1.52

NSPEC	SDI	TMEANC	TMEANW
98.00	4.31	774.99	90.56

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMATODA	1.25	2.50	2.00	0.00	0.00	0.00
TYPOSYLLIS SP.	1.25	2.50	2.00	0.00	0.00	0.00
TEREBELLIDAE	1.25	2.50	2.00	0.01	0.02	2.00
SACCOCIRRUS EROTICUS	1.25	2.50	2.00	0.00	0.00	0.00
OLIGOCHAETA	2.50	5.00	2.00	0.00	0.00	0.00
LACUNA SP.	3.75	7.50	2.00	0.02	0.04	2.00
LITTORINA SITKANA	2.50	5.00	2.00	0.33	0.67	2.00
MODIOLUS RECTUS	3.75	7.50	2.00	0.02	0.04	2.00
IDOTEA SP.	1.25	2.50	2.00	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	1.25	2.50	2.00	0.00	0.00	0.00
HYALE SP.	5.00	10.00	2.00	0.01	0.02	2.00
PARALLORCHESTES SP.	1.25	2.50	2.00	0.00	0.00	0.00
ORCHESTIA TRASKIANA	1.25	2.50	2.00	0.00	0.00	0.00
SIPUNCULA	1.25	2.50	2.00	0.00	0.00	0.00
EGG MASSES	2.50	5.00	2.00	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
15.00	2.57	31.25	0.40

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
GIGARTINA PAPILLATA	0.00	0.00	0.00	8.76	15.18	1.73
GIGARTINA LATISSIMA	0.00	0.00	0.00	1.97	3.41	1.73
NEMERTEA	5.00	5.00	1.00	0.00	0.00	0.00
NEMATODA	3.33	5.77	1.73	1.67	2.89	1.73
PHOLOE MINUTA	6.67	11.55	1.73	0.00	0.00	0.00
MICROPODARKE DUBIA	3.33	2.89	0.87	0.00	0.00	0.00
TYPOSYLLIS SP.	26.67	12.58	0.47	0.06	0.03	0.51
GLYCERA SP.	1.67	2.89	1.73	0.13	0.23	1.73
HEMIPODUS BOREALIS	11.67	2.89	0.25	0.61	0.20	0.33
ONUPHIS SP.	195.00	238.48	1.22	0.54	0.67	1.23
TEREBELLIDAE	16.67	28.87	1.73	0.08	0.14	1.73
SACCOCIRRUS EROTICUS	3.33	5.77	1.73	0.00	0.00	0.00
OLIGOCHAETA	245.00	349.32	1.43	0.03	0.02	0.87
LITTORINA SITKANA	86.67	36.86	0.43	13.04	5.89	0.45
LITTORINA SCUTULATA	38.33	11.55	0.30	2.56	0.25	0.10
LEPTOCHELIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
EXOSPHAEROMA AMPLICAU	73.33	127.02	1.73	0.20	0.34	1.73
AMPHIPODA GAMMARIDEA	30.00	51.96	1.73	0.03	0.05	1.73
PARAMOERA MOHRI	260.00	359.48	1.38	0.31	0.42	1.37
ECTOPROCTA	0.00	0.00	0.00	0.06	0.11	1.73
LEPTOSYNAPTA CLARKI	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
21.00	2.51	1010.00	30.04

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CYMATHERE TRIPLICATA	0.00	0.00	0.00	2.95	5.12	1.73
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	0.00	0.00	0.00
ENDOCLADIA MURICATA	0.00	0.00	0.00	2.19	3.79	1.73
ODONTHALIA WASHINGTON	0.00	0.00	0.00	2.10	3.63	1.73
ANTHOPLEURA ELEGANTIS	8.33	14.43	1.73	1.17	2.02	1.73
NEMERTEA	1.67	2.89	1.73	0.03	0.07	0.87
NEMATODA	273.33	255.36	0.93	0.12	0.03	0.23
POLYCHAETA	8.33	14.43	1.73	0.06	0.11	1.73
PHOLOE MINUTA	5.00	8.66	1.73	0.00	0.00	0.00
HESIONURA COINEAUI DI	3.33	5.77	1.73	0.00	0.00	0.00
HESIONIDAE	1.67	2.89	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	100.00	37.75	0.38	0.17	0.10	0.60
EXOGONE LOUREI	8.33	2.89	0.35	0.00	0.00	0.00
SPHAEROSYLLIS PIRIFER	1.67	2.89	1.73	0.00	0.00	0.00
HEMIPODUS BOREALIS	20.00	8.66	0.43	1.44	1.12	0.78
ONUPHIS SP.	400.00	244.34	0.61	2.23	1.74	0.78
PROTODORVILLEA GRACIL	55.00	17.32	0.31	0.00	0.00	0.00
POLYDORA SP.	1.67	2.89	1.73	0.01	0.02	1.73
CIRRATULUS CIRRATUS	6.67	11.55	1.73	2.35	4.06	1.73
THARYX SP.	3.33	5.77	1.73	0.00	0.00	0.00
MEDIOMASTUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
TEREBELLIDAE	8.33	5.77	0.69	0.03	0.02	0.87
SACCOCIRRUS EROTICUS	10.00	8.66	0.87	0.00	0.00	0.00
OLIGOCHAETA	275.00	114.35	0.42	0.07	0.03	0.39
COLLISELLA PELTA	41.67	52.04	1.25	2.67	2.63	0.98
LACUNA SP.	1.67	2.89	1.73	0.01	0.02	1.73
LITTORINA SITKANA	591.67	516.24	0.87	60.34	51.46	0.85
LITTORINA SCUTULATA	361.67	306.65	0.85	25.01	24.59	0.98
ALVINIA SP.	1.67	2.89	1.73	0.01	0.02	1.73
NUCELLA LAMELLOSA	10.00	10.00	1.00	5.59	6.96	1.24
NUCELLA EMARGINATA	1.67	2.89	1.73	2.90	5.02	1.73
GLYCYMERIS SUBOBSOLET	8.33	7.64	0.92	0.03	0.02	0.87
CHTHAMALUS DALLI	685.00	1160.57	1.69	8.00	14.31	1.59
BALANUS GLANDULA/CREN	2485.00	3300.60	1.33	15.95	22.03	1.38
BALANUS CARIOSUS	8.33	14.43	1.73	0.25	0.43	1.73
BALANUS CRENATUS	25.00	43.30	1.73	0.17	0.29	1.73
BALANUS GLANDULA	183.33	317.54	1.73	1.17	2.02	1.73
GNORIMOSPHAEROMA OREG	30.00	51.96	1.73	0.60	1.03	1.73
EXOSPHAEROMA AMPLICAU	3.33	5.77	1.73	0.01	0.02	1.73
IDOTEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	1.67	2.89	1.73	0.00	0.00	0.00
PARAMOERA MOHRI	15.00	21.79	1.45	0.00	0.00	0.00
HEMIGRAPSUS NUDUS	5.00	5.00	1.00	9.13	13.19	1.44
SIPUNCULA	5.00	8.66	1.73	0.03	0.05	1.73
LEPTASTERIAS HEXACTIS	8.33	14.43	1.73	3.67	6.35	1.73
LEPTOSYNAPTA CLARKI	3.33	5.77	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
46.00	2.56	5671.65	151.44

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ENTEROMORPHA LINZA	0.00	0.00	0.00	0.13	0.23	1.73
ULVA FENESTRATA	0.00	0.00	0.00	0.04	0.06	1.73
SPONGOMORPHA SP.	0.00	0.00	0.00	0.00	0.00	0.00
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	0.42	0.73	1.73
CRYPTOPLEURA SP.	0.00	0.00	0.00	0.95	1.64	1.73
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	2.45	4.24	1.73
RHODOMELA LARIX	0.00	0.00	0.00	11.41	19.76	1.73
ANTHOPLEURA ELEGANTIS	18.33	27.54	1.50	11.51	17.99	1.56
NEMERTEA	0.00	0.00	0.00	0.01	0.02	1.73
NEMATODA	143.33	59.65	0.42	0.16	0.13	0.80
POLYCHAETA	1.67	2.89	1.73	0.03	0.05	1.73
HESIONURA COINEAUI DI	10.00	13.23	1.32	0.00	0.00	0.00
TYPOSYLLIS SP.	200.00	134.44	0.67	0.44	0.39	0.88
EXOGONE LOUREI	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	1.67	2.89	1.73	0.08	0.14	1.73
HEMIPODUS BOREALIS	21.67	10.41	0.48	1.40	1.04	0.74
ONUPHIS SP.	571.67	312.03	0.55	5.96	0.22	0.04
LUMBRINERIS ZONATA	1.67	2.89	1.73	0.86	1.50	1.73
PROTODORVILLEA GRACIL	30.00	36.06	1.20	0.00	0.00	0.00
SPIO FILICORNIS	1.67	2.89	1.73	0.01	0.02	1.73
CIRRATULIDAE	11.67	16.07	1.38	0.00	0.00	0.00
CIRRATULUS CIRRATUS	15.00	8.66	0.58	1.08	0.76	0.71
NOTOMASTUS TENUIS	1.67	2.89	1.73	0.01	0.02	1.73
PRANCHIOMALDANE SP.	10.00	17.32	1.73	0.06	0.11	1.73
TEREBELLIDAE	11.67	7.64	0.65	0.16	0.08	0.51
THELEPUS CRISPUS	5.00	8.66	1.73	5.23	9.06	1.73
SACCOCIRRUS EROTICUS	30.00	13.23	0.44	0.00	0.00	0.00
OLIGOCHAETA	351.67	48.05	0.14	0.11	0.03	0.27
ACMAEIDAE JUV. <4MM	3.33	2.89	0.87	0.03	0.02	0.87
COLLISELLA PELTA	18.33	27.54	1.50	1.00	1.00	1.00
NOTOACMEA SCUTUM	16.67	28.87	1.73	0.00	0.00	0.00
NOTOACMEA PERSONA	66.67	115.47	1.73	15.00	25.98	1.73
LACUNA SP.	8.33	7.64	0.92	0.04	0.05	1.04
LITTORINA SITKANA	211.67	41.63	0.20	20.74	7.35	0.35
LITTORINA SCUTULATA	141.67	41.63	0.29	8.71	5.04	0.58
NUCELLA LAMELLOSA	6.67	7.64	1.15	2.81	4.24	1.51
MITRELLA SP.	1.67	2.89	1.73	0.33	0.58	1.73
SEARLESIA DIRA	8.33	14.43	1.73	0.00	0.00	0.00
GLYCYMERIS SUBORSOLET	50.00	35.00	0.70	0.39	0.48	1.24
MODIOLUS RECTUS	1.67	2.89	1.73	0.01	0.02	1.73
MYSELLA TUMIDA	1.67	2.89	1.73	0.01	0.02	1.73
MYSIDAE	3.33	5.77	1.73	0.05	0.08	1.73
GNORIMOSPHAEROMA OREG	71.67	72.34	1.01	0.43	0.41	0.95
EXOSPHAEROMA AMPLICAU	6.67	11.55	1.73	0.01	0.02	1.73
AMPHIPODA GAMMARIDEA	10.00	13.23	1.32	0.01	0.02	1.73
PARAMOERA MOHRI	56.67	58.38	1.03	0.04	0.05	1.04
HYALE SP.	116.67	202.07	1.73	0.33	0.58	1.73
PAGURUS SP. JUV.	6.67	11.55	1.73	0.01	0.02	1.73
PUGETTIA GRACILIS	41.67	72.17	1.73	0.17	0.29	1.73
HEMIGRAPSUS NUDUS	1.67	2.89	1.73	5.63	9.75	1.73
SIPUNCULA	8.33	10.41	1.25	0.06	0.07	1.20
LEPTOSYNAPTA CLARKI	5.00	5.00	1.00	0.05	0.08	1.73

NSPEC	SDI	TMEANC	TMEANW	CVAR
52.00	2.50	2305.00	98.41	

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
DIATOMACEAE	0.00	0.00	0.00	0.01	0.01	2.00
MONOSTROMA FUSCUM	0.00	0.00	0.00	1.34	1.56	1.16
ENTEROMORPHA LINZA	0.00	0.00	0.00	0.18	0.20	1.15
ULVA FENESTRATA	0.00	0.00	0.00	0.01	0.02	2.00
ULVA LACTUCA	0.00	0.00	0.00	0.07	0.14	2.00
SPONGOMORPHA COALITA	0.00	0.00	0.00	0.00	0.00	0.00
PORPHYRA SP.	0.00	0.00	0.00	0.34	0.39	1.17
NEOAGARDHIELLA BAILEY	0.00	0.00	0.00	0.83	1.66	2.00
GIGARTINA SP.	0.00	0.00	0.00	0.44	0.74	1.66
RHODOGLOSSUM SP.	0.00	0.00	0.00	2.07	4.15	2.00
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	0.76	1.53	2.00
ODONTHALIA WASHINGTON	0.00	0.00	0.00	2.29	4.58	2.00
LOPHOSIPHONIA REPTABU	0.00	0.00	0.00	0.28	0.56	2.00
ANTHOPLEURA ELEGANTIS	12.50	25.00	2.00	6.25	12.50	2.00
NEMERTEA	130.00	236.85	1.82	0.16	0.26	1.64
NEMATODA	110.00	107.16	0.97	0.10	0.07	0.67
POLYCHAETA	12.50	25.00	2.00	0.00	0.00	0.00
PHOLOE MINUTA	6.25	7.50	1.20	0.00	0.00	0.00
HESIONURA COINEAUI DI	8.75	8.54	0.98	0.00	0.00	0.00
HESIONIDAE	1.25	2.50	2.00	0.01	0.02	2.00
MICROPODARKE DUBIA	5.00	4.08	0.82	0.00	0.00	0.00
TYPOSYLLIS SP.	197.50	76.76	0.41	0.24	0.18	0.74
EXOGONE LOUREI	7.50	6.45	0.86	0.00	0.00	0.00
SPHAEROSYLLIS PIRIFER	3.75	7.50	2.00	0.00	0.00	0.00
NEREIS SP.	2.50	5.00	2.00	0.52	1.04	2.00
HEMIPODUS BOREALIS	57.50	35.24	0.61	1.78	1.15	0.65
ONUPHIS SP.	561.25	362.11	0.65	5.29	3.41	0.64
LUMBRINERIS ZONATA	8.75	8.54	0.98	5.16	5.95	1.15
DORVILLEA SP.	2.50	5.00	2.00	0.00	0.00	0.00
PROTODORVILLEA GRACIL	31.25	26.58	0.85	0.00	0.00	0.00
ARICIDEA SP.	1.25	2.50	2.00	0.00	0.00	0.00
POLYDORA SP.	2.50	2.89	1.15	0.01	0.02	2.00
SPIO FILICORNIS	3.75	4.79	1.28	0.02	0.02	1.15
SPIOPHANES BOMBYX	1.25	2.50	2.00	0.00	0.00	0.00
CIRRATULIDAE	3.75	7.50	2.00	0.01	0.02	2.00
CIRRATULUS CIRRATUS	11.25	10.31	0.92	2.30	1.86	0.81
THARYX SP.	2.50	2.89	1.15	0.00	0.00	0.00
CHAETOZONE SP.	1.25	2.50	2.00	0.00	0.00	0.00
NOTOMASTUS TENUIS	13.75	27.50	2.00	0.76	1.52	2.00
TEREBELLIDAE	5.00	7.07	1.41	0.01	0.02	2.00
SACCOCIRRUS EROTICUS	21.25	20.16	0.95	0.00	0.00	0.00
OLIGOCHAETA	568.75	400.86	0.70	0.13	0.11	0.82
COLLISELLA PELTA	6.25	12.50	2.00	0.81	1.63	2.00
NOTOACMEA SCUTUM	31.25	47.32	1.51	1.44	1.90	1.32
NOTOACMEA PERSONA	37.50	75.00	2.00	32.88	65.75	2.00
LACUNA SP.	11.25	19.31	1.72	0.27	0.54	2.00
LACUNA VARIEGATA	12.50	25.00	2.00	0.00	0.00	0.00
LITTORINA SITKANA	2.50	5.00	2.00	0.13	0.27	2.00
LITTORINA SCUTULATA	17.50	25.33	1.45	1.13	1.66	1.47
NUCELLA LAMELLOSA	8.75	17.50	2.00	24.31	48.63	2.00
SEARLESIA DIRA	1.25	2.50	2.00	4.92	9.84	2.00
GLYCYMERIS SUBOBSOLET	16.25	18.87	1.16	0.06	0.09	1.57
AXINOPSIDA SERRICATA	1.25	2.50	2.00	0.01	0.02	2.00
MYSELLA TUMIDA	3.75	2.50	0.67	0.02	0.02	1.15
CHTHAMALUS DALLI	225.00	450.00	2.00	2.56	5.13	2.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
BALANUS GLANDULA/CREN	2668.75	5337.50	2.00	16.63	33.25	2.00
BALANUS CARIOSUS	56.25	112.50	2.00	3.13	6.25	2.00
ACANTHOMYSIS SP.	2.50	5.00	2.00	0.13	0.27	2.00
CUMACEA	1.25	2.50	2.00	0.00	0.00	0.00
DIASTYLOPSIS SP.	1.25	2.50	2.00	0.00	0.00	0.00
GNORIMOSPHAEROMA OREG	183.75	169.63	0.92	2.19	3.01	1.37
EXOSPHAEROMA AMPLICAU	26.25	42.70	1.63	0.01	0.02	2.00
IDOTEA SP.	26.25	37.72	1.44	0.06	0.13	2.00
AMPHIPODA GAMMARIDEA	6.25	7.50	1.20	0.00	0.00	0.00
AMPITHOE SP.	6.25	12.50	2.00	0.00	0.00	0.00
COROPHIUM SP.	25.00	50.00	2.00	0.00	0.00	0.00
PARAMOERA MOHRI	21.25	19.31	0.91	0.02	0.02	1.15
HYALE SP.	6.25	12.50	2.00	0.00	0.00	0.00
PARALLORCHESTES SP.	1.25	2.50	2.00	0.00	0.00	0.00
PHOXOCEPHALIDAE	1.25	2.50	2.00	0.00	0.00	0.00
DECAPODA MEGALOPS	1.25	2.50	2.00	0.01	0.02	2.00
PAGURUS SP. JUV.	11.25	19.31	1.72	0.02	0.04	2.00
PAGURUS HIRSUTIUSCULU	6.25	12.50	2.00	0.13	0.25	2.00
SIPUNCULA	11.25	7.50	0.67	0.03	0.02	0.67
LEPTASTERIAS HEXACTIS	1.25	2.50	2.00	0.45	0.89	2.00
OPHIUROIDEA (AMPHIURI	1.25	2.50	2.00	0.13	0.25	2.00
EUPENTACTA QUINQUESEM	7.50	11.90	1.59	0.21	0.36	1.73
LEPTOSYNAPTA CLARKI	5.00	4.08	0.82	0.62	0.72	1.16

NSPEC	SDI	TMEANC	TMEANW
78.00	2.46	5238.75	123.71

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MONOSTROMA FUSCUM	0.00	0.00	0.00	0.08	0.14	1.73
ENTEROMORPHA LINZA	0.00	0.00	0.00	5.15	5.70	1.11
ENTEROMORPHA INTESTI	0.00	0.00	0.00	0.85	1.47	1.73
ULVA SP.	0.00	0.00	0.00	9.01	15.60	1.73
ULVA LACTUCA	0.00	0.00	0.00	1.12	1.93	1.73
SPONGOMORPHA SP.	0.00	0.00	0.00	1.85	3.20	1.73
SPONGOMORPHA COALITA	0.00	0.00	0.00	0.88	1.52	1.73
CYMATHERE TRIPLICATA	0.00	0.00	0.00	4.56	7.90	1.73
FUCUS DISTICHUS	0.00	0.00	0.00	0.16	0.27	1.73
PORPHYRA PERFORATA	0.00	0.00	0.00	30.01	51.97	1.73
GIGARTINA SP.	0.00	0.00	0.00	4.39	6.08	1.38
MICROCLADIA BOREALIS	0.00	0.00	0.00	0.01	0.02	1.73
PTEROSIPHONIA SP.	0.00	0.00	0.00	0.00	0.00	0.00
RHODOMELA LARIX	0.00	0.00	0.00	4.06	7.03	1.73
NEMERTEA	81.67	84.61	1.04	0.99	1.38	1.39
NEMATODA	6.67	11.55	1.73	0.00	0.00	0.00
POLYCHAETA	16.67	20.82	1.25	0.04	0.05	1.04
HESIONURA COINEAUI DI	5.00	5.00	1.00	0.00	0.00	0.00
HESIONIDAE	3.33	5.77	1.73	0.00	0.00	0.00
MICROPODARKE DUBIA	13.33	18.93	1.42	0.03	0.02	0.87
TYPOSYLLIS SP.	28.33	17.56	0.62	0.03	0.02	0.87
EXOGONE LOUREI	3.33	5.77	1.73	0.00	0.00	0.00
HEMIPODUS BOREALIS	6.67	5.77	0.87	0.28	0.24	0.87
ONUPHIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
LUMBRINERIS ZONATA	3.33	2.89	0.87	0.86	1.42	1.64
ARABELLA IRICOLOR	1.67	2.89	1.73	1.70	2.94	1.73
PROTODORVILLEA GRACIL	141.67	130.42	0.92	0.03	0.05	1.73
NAINERIS UNCINATA	10.00	17.32	1.73	43.68	75.66	1.73
SPIO FILICORNIS	1.67	2.89	1.73	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	1.67	2.89	1.73	0.00	0.00	0.00
CIRRATULIDAE	6.67	11.55	1.73	0.00	0.00	0.00
CIRRATULUS CIRRATUS	16.67	17.56	1.05	4.86	5.29	1.09
THARYX SP.	1.67	2.89	1.73	0.00	0.00	0.00
MEDIOMASTUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
TEREBELLIDAE	10.00	13.23	1.32	0.40	0.69	1.73
SACCOCIRRUS EROTICUS	151.67	160.65	1.06	0.19	0.22	1.15
OLIGOCHAETA	130.00	73.99	0.57	0.04	0.05	1.04
ACMAEIDAE JUV. <4MM	3.33	5.77	1.73	0.03	0.05	1.73
NOTOACMEA SCUTUM	5.00	8.66	1.73	9.85	17.05	1.73
NOTOACMEA PERSONA	8.33	14.43	1.73	0.08	0.14	1.73
LACUNA SP.	21.67	20.21	0.93	0.06	0.03	0.51
LACUNA VARIEGATA	1700.00	2298.23	1.35	6.17	7.32	1.19
LITTORINA SITKANA	1.67	2.89	1.73	0.01	0.02	1.73
LITTORINA SCUTULATA	5.00	8.66	1.73	0.13	0.23	1.73
GLYCYMERIS SUBOBSOLET	18.33	2.89	0.16	0.04	0.00	0.00
GNORIMOSPHAEROMA OREG	16.67	14.43	0.87	0.06	0.11	1.73
EXOSPHAEROMA AMPLICAU	20.00	8.66	0.43	0.14	0.11	0.73
IDOTEA SP.	113.33	196.30	1.73	0.96	1.67	1.73
PARAMOERA MOHRI	11.67	20.21	1.73	0.01	0.02	1.73
MELITA CALIFORNICA	3.33	5.77	1.73	0.00	0.00	0.00
HYALE SP.	1.67	2.89	1.73	0.00	0.00	0.00
PARALLORCHESTES SP.	3.33	5.77	1.73	0.00	0.00	0.00
PARALLORCHESTES OCHOT	8.33	14.43	1.73	0.00	0.00	0.00
DECAPODA MEGALOPS	8.33	14.43	1.73	0.08	0.14	1.73
PAGURUS HIRSUTIUSCULU	16.67	28.87	1.73	6.83	11.84	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LEPTOSYNAPTA CLARKI	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
56.00	2.11	2613.33	139.71

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
DIATOMACEAE	0.00	0.00	0.00	0.05	0.10	2.00
MONOSTROMA FUSCUM	0.00	0.00	0.00	1.03	2.06	2.00
ENTEROMORPHA SP.	0.00	0.00	0.00	17.30	23.37	1.35
ENTEROMORPHA LINZA	0.00	0.00	0.00	0.06	0.13	2.00
ENTEROMORPHA INTESTI	0.00	0.00	0.00	0.19	0.38	2.00
ULVA SP.	0.00	0.00	0.00	9.90	14.43	1.46
ULVA FENESTRATA	0.00	0.00	0.00	5.87	11.73	2.00
ULVA LACTUCA	0.00	0.00	0.00	6.69	13.39	2.00
SPONGOMORPHA SP.	0.00	0.00	0.00	0.39	0.77	2.00
SPONGOMORPHA COALITA	0.00	0.00	0.00	10.32	20.50	1.99
SPONGOMORPHA SPINESCE	0.00	0.00	0.00	0.62	1.24	2.00
ALARIA SP.	0.00	0.00	0.00	8.57	17.15	2.00
ALARIA MARGINATA	0.00	0.00	0.00	1.41	2.83	2.00
FUCUS DISTICHUS	0.00	0.00	0.00	8.61	7.53	0.87
PORPHYRA SP.	0.00	0.00	0.00	12.10	8.98	0.74
PLOCAMIUM SP.	0.00	0.00	0.00	0.00	0.00	2.00
GIGARTINA SP.	0.00	0.00	0.00	30.27	17.53	0.58
GIGARTINA EXASPERATA	0.00	0.00	0.00	2.85	5.69	2.00
IRIDAEA SP.	0.00	0.00	0.00	118.19	126.86	1.07
PRIONITIS LANCEOLATA	0.00	0.00	0.00	2.38	4.76	2.00
CALLOPHYLLIS SP.	0.00	0.00	0.00	0.04	0.09	2.00
MICROCLADIA BOREALIS	0.00	0.00	0.00	25.58	17.50	0.68
HOLLENBERGIA SP.	0.00	0.00	0.00	0.02	0.03	2.00
CRYPTOPLEURA SP.	0.00	0.00	0.00	1.12	1.87	1.66
BOTRYOGLOSSUM FARLOWI	0.00	0.00	0.00	0.15	0.29	2.00
POLYSIPHONIA SP.	0.00	0.00	0.00	10.01	17.97	1.79
PTEROSIPHONIA SP.	0.00	0.00	0.00	0.23	0.47	2.00
RHODOMELA LARIX	0.00	0.00	0.00	49.86	18.52	0.37
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	12.27	17.14	1.40
ODONTHALIA WASHINGTON	0.00	0.00	0.00	0.06	0.13	2.00
LOPHOSIPHONIA VILLUM	0.00	0.00	0.00	0.07	0.14	2.00
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	1.11	1.37	1.23
HALICLYSTUS AURICULA	6.25	12.50	2.00	0.63	1.25	2.00
NEMERTEA	53.75	51.05	0.95	0.33	0.35	1.05
NEMATODA	82.50	71.36	0.86	0.01	0.02	2.00
POLYCHAETA	2.50	5.00	2.00	0.00	0.00	0.00
POLYNOIDAE	1.25	2.50	2.00	0.01	0.02	2.00
PHOLOE MINUTA	2.50	5.00	2.00	0.03	0.07	2.00
EULALIA SP.	58.75	24.96	0.42	0.13	0.14	1.15
HESIONURA COINEAUI DI	60.00	43.01	0.72	0.01	0.02	2.00
MICROPODARKE DUBIA	1.25	2.50	2.00	0.00	0.00	0.00
TYPOSYLLIS SP.	295.00	223.49	0.75	0.59	0.41	0.70
EUSYLLIS ASSIMILIS	1.25	2.50	2.00	0.00	0.00	0.00
EXOGONE LOUREI	67.50	75.99	1.13	0.00	0.00	0.00
SPHAEROSYLLIS PIRIFER	2.50	5.00	2.00	0.00	0.00	0.00
NEREIS SP.	51.25	41.91	0.68	0.93	0.81	0.87
NEREIS VEXILLOSA	1.25	2.50	2.00	10.35	20.69	2.00
PLATYNEREIS BICANALIC	621.25	950.64	1.53	4.70	6.61	1.41
GLYCERA SP.	1.25	2.50	2.00	1.44	2.88	2.00
HEMIPODUS BOREALIS	38.75	17.97	0.46	1.73	1.33	0.77
ONUPHIS SP.	3.75	4.79	1.28	0.01	0.02	2.00
LUMBRINERIS ZONATA	28.75	27.50	0.96	2.18	2.02	0.92
PROTODORVILLEA GRACIL	92.50	70.77	0.86	0.01	0.02	2.00
ORBINIIDAE (PROTOARI)	6.25	12.50	2.00	0.00	0.00	0.00
NAINERIS UNCINATA	1.25	2.50	2.00	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CIRRATULIDAE	46.25	42.70	0.92	0.04	0.05	1.15
CIRRATULUS CIRRATUS	56.25	29.55	0.53	19.37	15.36	0.79
CAULLERIELLA SP.	81.25	162.50	2.00	0.06	0.13	2.00
THARYX SP.	35.00	70.00	2.00	0.01	0.02	2.00
CHAETOZONE SP.	25.00	28.87	1.15	0.06	0.13	2.00
CAPITELLIDAE	3.75	4.79	1.28	0.00	0.00	0.00
NOTOMASTUS TENUIS	10.00	9.13	0.91	0.78	1.03	1.31
MEDIOMASTUS SP.	8.75	14.36	1.64	0.00	0.00	0.00
BRANCHIOMALDANE SP.	7.50	11.90	1.59	0.00	0.00	0.00
TEREBELLIDAE	46.25	37.05	0.80	8.49	14.21	1.67
THELEPUS SP.	443.75	248.64	0.56	69.88	85.71	1.23
SACCOCIRRUS EROTICUS	23.75	28.10	1.18	0.00	0.00	0.00
OLIGOCHAETA	493.75	298.93	0.61	0.15	0.12	0.78
ACMAEIDAE JUV. <4MM	1.25	2.50	2.00	0.01	0.02	2.00
COLLISELLA PELTA	6.25	12.50	2.00	1.38	2.75	2.00
NOTOACMEA SCUTUM	18.75	23.94	1.28	2.31	3.84	1.66
LACUNA SP.	80.00	89.54	1.12	0.68	1.00	1.48
LACUNA VARIEGATA	2493.75	1370.88	0.55	9.94	9.59	0.97
LITTORINA SCUTULATA	6.25	12.50	2.00	0.31	0.63	2.00
ALVINIA SP.	30.00	21.21	0.71	0.02	0.02	1.15
NUCELLA LAMELLOSA	6.25	12.50	2.00	0.00	0.00	0.00
SEARLESIA DIRA	1.25	2.50	2.00	7.03	14.07	2.00
TONICELLA LINEATA	1.25	2.50	2.00	0.16	0.32	2.00
NUCULANA HAMATA	1.25	2.50	2.00	0.01	0.02	2.00
GLYCYMERIS SUBOBSOLET	10.00	12.25	1.22	0.02	0.02	1.15
MODIOLUS RECTUS	13.75	13.15	0.96	0.00	0.00	0.00
MYSELLA TUMIDA	1.25	2.50	2.00	0.00	0.00	0.00
BALANUS CRENATUS/GLAN	2.50	5.00	2.00	0.01	0.02	2.00
MYSIDAE	3.75	7.50	2.00	0.08	0.17	2.00
ANATANAIS NORMANI	1.25	2.50	2.00	0.00	0.00	0.00
GNORIMOSPHAEROMA OREG	1.25	2.50	2.00	0.01	0.02	2.00
EXOSPHAEROMA AMERICAU	175.00	141.13	0.81	0.74	0.60	0.82
DYNAMENELLA SHEARERI	12.50	14.43	1.15	0.00	0.00	0.00
IDOTEA SP.	53.75	27.80	0.52	0.14	0.15	1.01
IDOTEA WOSNESENSKII	6.25	6.29	1.01	1.34	1.30	0.96
AMPHIPODA GAMMARIDEA	87.50	56.05	0.64	0.21	0.25	1.20
AMPITHOE SP.	676.25	561.92	0.83	4.69	4.26	0.91
PARAMOERA MOHRI	12.50	14.43	1.15	0.00	0.00	0.00
AMPHIPODA GAMMARIDAE	12.50	25.00	2.00	0.00	0.00	0.00
HYALE SP.	1502.50	952.59	0.63	4.64	2.45	0.53
PARALLORCHESTES SP.	27.50	25.98	0.94	0.25	0.25	0.98
PARALLORCHESTES OCHOT	9012.50	11203.31	1.24	17.06	10.93	0.64
DECAPODA MEGALOPS	6.25	12.50	2.00	0.00	0.00	0.00
PAGURUS HIRSUTIUSCULU	3.75	4.79	1.28	0.01	0.02	2.00
PUGETTIA GRACILIS	136.25	96.64	0.71	6.12	7.53	1.23
CANCER OREGONENSIS	1.25	2.50	2.00	0.91	1.82	2.00
TELMATOGETON SP.	293.75	587.50	2.00	0.06	0.13	2.00
SIPUNCULA	33.75	52.18	1.55	0.22	0.44	2.00
ECTOPPOCTA	0.00	0.00	0.00	0.07	0.14	2.00
LEPTASTERIAS HEXACTIS	15.00	23.80	1.59	1.90	2.49	1.31
LEPTOSYNAPTA CLARKI	1.25	2.50	2.00	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
106.00	2.94	17512.50	519.67

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
DIATOMACEAE	0.00	0.00	0.00	0.23	0.37	1.59
MONOSTROMA FUSCUM	0.00	0.00	0.00	0.15	0.26	1.73
MONOSTROMA ZOSTERICOL	0.00	0.00	0.00	0.12	0.20	1.73
ENTEROMORPHA LINZA	0.00	0.00	0.00	0.12	0.21	1.73
ENTEROMORPHA INTESTI	0.00	0.00	0.00	0.61	1.06	1.73
ULVA SP.	0.00	0.00	0.00	7.23	12.52	1.73
ULVA LACTUCA	0.00	0.00	0.00	9.83	16.49	1.68
SPONGOMORPHA SP.	0.00	0.00	0.00	0.46	0.80	1.73
LAMINARIA SP.	0.00	0.00	0.00	1.24	2.15	1.73
PLEUROPHYCUS GARDNERI	0.00	0.00	0.00	10.02	17.36	1.73
ALARIA MARGINATA	0.00	0.00	0.00	154.67	161.93	1.05
EGREGIA MENZIESII	0.00	0.00	0.00	100.28	129.47	1.29
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	0.06	0.10	1.73
GIGARTINA SP.	0.00	0.00	0.00	8.69	7.90	0.91
GIGARTINA PAPILLATA	0.00	0.00	0.00	2.15	3.72	1.73
IRIDAEA SP.	0.00	0.00	0.00	239.31	207.26	0.87
IRIDAEA CORDATA	0.00	0.00	0.00	129.53	224.35	1.73
CORALLINACEAE	0.00	0.00	0.00	3.16	4.17	1.32
RHODYMENIA PALMATA	0.00	0.00	0.00	0.08	0.14	1.73
MICROCLADIA BOREALIS	0.00	0.00	0.00	14.20	15.82	1.11
CRYPTOPLEURA SP.	0.00	0.00	0.00	2.94	1.73	0.
GONIMOPHYLLUM SKOTTSB	0.00	0.00	0.00	0.01	0.02	1.73
HYMENENA SETCHELLII	0.00	0.00	0.00	0.30	0.51	1.73
PTEROSIPHONIA DENDROI	0.00	0.00	0.00	0.00	0.00	0.00
LAURENCIA SPECTABILIS	0.00	0.00	0.00	1.94	3.17	1.63
RHODOMELA LARIX	0.00	0.00	0.00	11.50	2.91	0.25
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	194.40	153.03	0.79
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	7.71	12.97	1.68
HALICLYSTUS AURICULA	8.33	14.43	1.73	0.42	0.72	1.73
NEMERTEA	25.00	8.66	0.35	0.03	0.02	0.87
NEMATODA	48.33	20.21	0.42	0.00	0.00	0.00
POLYNOIDAE	26.67	22.55	0.85	12.67	21.51	1.70
HALOSYONA BREVISETOSA	8.33	14.43	1.73	2.50	4.33	1.73
HARMOTHOE IMBRICATA	16.67	14.43	0.87	0.08	0.14	1.73
PHYLLODOCE MEDIPAPILL	8.33	14.43	1.73	0.00	0.00	0.00
EULALIA SP.	71.67	36.86	0.51	0.00	0.00	0.00
HESIONURA COINEAUI DI	38.33	46.46	1.21	0.00	0.00	0.00
EPHIODROMUS PUGETTENS	8.33	14.43	1.73	0.08	0.14	1.73
MICRODARKE DUBIA	11.67	10.41	0.89	0.04	0.05	1.04
TYPOSYLLIS SP.	288.33	172.14	0.60	0.73	0.47	0.65
EXOGONE LOUREI	36.67	38.84	1.06	0.00	0.00	0.00
SPHAEROSYLLIS PIRIFER	10.00	10.00	1.00	0.00	0.00	0.00
ODONTOSYLLIS PARVA	25.00	25.00	1.00	0.00	0.00	0.00
NEREIS SP.	25.00	25.00	1.00	0.50	0.87	1.73
PLATYNEREIS BICANALIC	83.33	72.17	0.87	5.83	9.67	1.66
HEMIPODUS BOREALIS	18.33	17.56	0.96	0.45	0.40	0.88
ONUPHIS SP.	5.00	8.66	1.73	0.01	0.02	1.73
LUMBRINERIS ZONATA	66.67	22.55	0.34	4.16	5.15	1.24
PROTODORVILLEA GRACIL	60.00	55.00	0.92	0.01	0.02	1.73
NAINERIS UNCINATA	8.33	14.43	1.73	0.00	0.00	0.00
SCOLOPLOS PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
POLYDORA SP.	1.67	2.89	1.73	0.00	0.00	0.00
POLYDORA COLUMBIANA	8.33	14.43	1.73	0.08	0.14	1.73
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.00	0.00	0.00
CIRRATULIDAE	43.33	27.54	0.64	0.03	0.02	0.87

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CIRRATULUS CIRRATUS	50.00	8.66	0.17	6.49	4.03	0.62
CAULLERIELLA SP.	25.00	43.30	1.73	0.00	0.00	0.00
CHAETOZONE SP.	25.00	0.00	0.00	0.00	0.00	0.00
SCALIBREGMA INFLATUM	1.67	2.89	1.73	0.01	0.02	1.73
CAPITELLIDAE	25.00	25.00	1.00	0.17	0.29	1.73
CAPITELLA CAPITATA	8.33	14.43	1.73	0.00	0.00	0.00
NOTOMASTUS TENUIS	6.67	5.77	0.87	0.18	0.17	0.96
MEDIOMASTUS SP.	10.00	13.23	1.32	0.00	0.00	0.00
PRANCHIOMALDANE SP.	1.67	2.89	1.73	0.00	0.00	0.00
TEREBELLIDAE	343.33	237.93	0.69	34.11	41.12	1.21
THELEPUS SP.	383.33	112.73	0.29	128.08	52.71	0.41
THELEPUS CRISPUS	3.33	5.77	1.73	2.70	4.67	1.73
LAONOME KROYERI	8.33	14.43	1.73	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	55.00	90.97	1.65	0.11	0.20	1.73
OLIGOCHAETA	310.00	208.03	0.67	0.06	0.07	1.20
LACUNA SP.	76.67	70.06	0.91	0.81	0.71	0.87
LACUNA VARIEGATA	3241.67	757.19	0.23	17.17	5.08	0.30
ALVINIA SP.	1553.33	1101.77	0.71	4.64	3.41	0.73
NATICA CLAUSA	50.00	66.14	1.32	0.25	0.25	1.00
CLOROYOIA PERCRASSA	8.33	14.43	1.73	1.67	2.89	1.73
MOPALIA MUSCOSA	8.33	14.43	1.73	9.50	16.45	1.73
GLYCYMERIS SP.	8.33	14.43	1.73	0.00	0.00	0.00
GLYCYMERIS SUBOBSOLET	8.33	14.43	1.73	0.03	0.05	1.73
MODIOLUS RECTUS	16.67	14.43	0.87	0.08	0.14	1.73
MYSELLA TUMIDA	5.00	5.00	1.00	0.04	0.05	1.04
MYA ARENARIA	1.67	2.89	1.73	0.01	0.02	1.73
ANATANAIS NORMANI	25.00	43.30	1.73	0.00	0.00	0.00
EXOSPHAEROMA AMPLICAU	76.67	33.29	0.43	0.38	0.30	0.78
DYNAMENELLA SHEAREPI	8.33	14.43	1.73	0.00	0.00	0.00
LIMNORIA ALGARUM	16.67	28.87	1.73	0.00	0.00	0.00
IDOTEA SP.	3925.00	1952.08	0.50	8.93	2.40	0.27
IANIROPSIS KINCAIDI D	90.00	151.58	1.68	0.17	0.29	1.73
LIGIA PALLASI	41.67	72.17	1.73	0.08	0.14	1.73
AMPHIPODA GAMMARIDEA	96.67	92.78	0.95	0.10	0.13	1.39
AMPITHOE SP.	210.00	30.41	0.14	2.88	2.18	0.76
AORDIDES COLUMBIAE	58.33	52.04	0.89	0.08	0.14	1.73
PARAMOERA MOHRI	2170.00	2722.60	1.25	1.58	1.94	1.23
AMPHIPODA GAMMARIDAE	8.33	14.43	1.73	0.00	0.00	0.00
MELITA CALIFORNICA	3.33	2.89	0.87	0.00	0.00	0.00
HYALE SP.	5031.66	2190.92	0.44	9.78	1.76	0.18
PARALLORCHESTES SP.	8.33	14.43	1.73	0.01	0.02	1.73
PARALLORCHESTES OCHOT	1233.33	2028.91	1.65	3.42	5.70	1.67
PHOTIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTOMEDEIA SP.	5.00	8.66	1.73	0.01	0.02	1.73
PHOXOCEPHALIDAE	1.67	2.89	1.73	0.00	0.00	0.00
PAPAPLEUSTES NAUTILUS	33.33	57.74	1.73	0.00	0.00	0.00
CAPRELLIDA	18.33	11.55	0.63	0.08	0.14	1.73
DECAPODA MEGALOPS	16.67	28.87	1.73	0.00	0.00	0.00
PAGURUS SP.	8.33	14.43	1.73	9.00	15.59	1.73
PUGETTIA GRACILIS	335.00	268.47	0.80	11.92	7.78	0.65
TELMESSUS CHEIRAGONUS	16.67	28.87	1.73	0.17	0.29	1.73
CANCER OREGONENSIS	21.67	33.29	1.54	4.19	7.23	1.72
SIPUNCULA	13.33	23.09	1.73	0.11	0.20	1.73
ECTOPROCTA	0.00	0.00	0.00	6.58	11.40	1.73
DERMASTERIAS IMBRICAT	8.33	14.43	1.73	0.17	0.29	1.73
EVASTERIAS TROSCHELII	1.67	2.89	1.73	0.08	0.14	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LEPTASTERIAS HEXACTIS	41.67	52.04	1.25	0.17	0.14	0.87
OPHIUROIDEA (AMPHIURI	8.33	14.43	1.73	0.08	0.14	1.73
LEPTOSYNAPTA CLARKI	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
114.00	3.32	20726.60	1194.67

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LAMINARIA SP.	0.00	0.00	0.00	43.45	49.25	1.13
LAMINARIA SACCHARINA	0.00	0.00	0.00	0.58	1.00	1.73
ALARIA MARGINATA	0.00	0.00	0.00	107.51	152.34	1.42
ALARIA NANA	0.00	0.00	0.00	75.83	70.56	0.93
EGREGIA MENZIESII	0.00	0.00	0.00	25.25	43.73	1.73
PLOCAMIUM PACIFICUM	0.00	0.00	0.00	0.54	0.93	1.73
IRIDAEA CORDATA	0.00	0.00	0.00	8.11	14.05	1.73
PRIONITIS LANCEOLATA	0.00	0.00	0.00	85.47	148.04	1.73
CRYPTOPLEURA VIOLACEA	0.00	0.00	0.00	0.75	1.30	1.73
HYMENENA FLABELLIGERA	0.00	0.00	0.00	1.40	2.17	1.55
BOTRYOGLOSSUM FARLOWI	0.00	0.00	0.00	1.91	3.30	1.73
LAURENCIA SPECTABILIS	0.00	0.00	0.00	6.93	12.00	1.73
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	9.69	13.61	1.40
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	128.08	217.92	1.70
NEMERTEA	8.33	14.43	1.73	0.01	0.02	1.73
NEMATODA	36.67	63.51	1.73	0.01	0.02	1.73
POLYCHAETA	6.67	11.55	1.73	0.00	0.00	0.00
HARMOTHOE IMBRICATA	1.67	2.89	1.73	0.00	0.00	0.00
HESIONURA COINEAUI DI	3.33	5.77	1.73	0.00	0.00	0.00
MICROPODARKE DUBIA	11.67	20.21	1.73	0.01	0.02	1.73
TYPOSYLLIS SP.	53.33	83.86	1.57	0.10	0.17	1.73
EXOGONE SP.	181.67	314.66	1.73	0.10	0.17	1.73
SPHAEROSYLLIS SP.	11.67	20.21	1.73	0.00	0.00	0.00
PLATYNEREIS BICANALIC	5.00	8.66	1.73	0.06	0.11	1.73
HEMIPODUS BOREALIS	1.67	2.89	1.73	0.01	0.02	1.73
GLYCINDE PICTA	1.67	2.89	1.73	0.01	0.02	1.73
ONUPHIS SP.	196.67	340.64	1.73	0.11	0.20	1.73
LUMBRINERIS SP.	6.67	11.55	1.73	0.01	0.02	1.73
PROTODORVILLEA GRACIL	51.67	72.86	1.41	0.01	0.02	1.73
NAINERIS QUADRICUSPID	1.67	2.89	1.73	0.00	0.00	0.00
POLYDORA SP.	1.67	2.89	1.73	0.00	0.00	0.00
SPIO FILICORNIS	5.00	8.66	1.73	0.01	0.02	1.73
MALACOCEROS GLUTAEUS	10.00	17.32	1.73	0.01	0.02	1.73
CHAETOZONE SP.	20.00	34.64	1.73	0.01	0.02	1.73
ARMANDIA BREVIS	6.67	11.55	1.73	0.01	0.02	1.73
CAPITELLA CAPITATA	11.67	20.21	1.73	0.01	0.02	1.73
BRANCHIDMALOANE SP.	20.00	34.64	1.73	0.05	0.08	1.73
AXIOTHELLA RUBROCINCT	10.00	10.00	1.00	0.03	0.05	1.73
PISTA SP.	11.67	20.21	1.73	0.03	0.05	1.73
POLYCIRRUS KERGUELENS	8.33	14.43	1.73	0.03	0.05	1.73
SABELLIDAE	1.67	2.89	1.73	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	18.33	31.75	1.73	0.01	0.02	1.73
OLIGOCHAETA	105.00	156.60	1.49	0.03	0.05	1.73
MARGARITES PUPILLUS	10.00	17.32	1.73	1.28	2.22	1.73
LACUNA SP.	173.33	291.60	1.68	1.56	2.62	1.68
ALVINIA SP.	81.67	137.14	1.68	0.05	0.08	1.73
AMPHISSA COLUMBIANA	13.33	23.09	1.73	0.67	1.15	1.73
GLYCYMERIS SP.	8.33	5.77	0.69	0.01	0.02	1.73
TANYSTYLUM OCCIDENTAL	3.33	5.77	1.73	0.00	0.00	0.00
ANOPLODACTYLUS ERECTU	1.67	2.89	1.73	0.00	0.00	0.00
ACANTHOMYSIS SP.	1.67	2.89	1.73	0.01	0.02	1.73
LEPTOCHELIA SP.	5.00	8.66	1.73	0.00	0.00	0.00
IDOTEA OCHOTENSIS	3.33	5.77	1.73	0.05	0.08	1.73
IDOTEA ACULEATA	10.00	13.23	1.32	0.06	0.11	1.73
IANIROPSIS KINCAIDI D	3.33	2.89	0.87	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
AMPHIPODA GAMMARIDEA	28.33	40.41	1.43	0.01	0.02	1.73
AMPITHOE SP.	1.67	2.89	1.73	0.00	0.00	0.00
AORIDES COLUMBIAE	20.00	34.64	1.73	0.03	0.05	1.73
ATYLUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PONTOGENEIA INERMIS	45.00	69.46	1.54	0.08	0.14	1.73
PONTOGENEIA ROSTRATA	41.67	52.04	1.25	0.08	0.10	1.31
HYALE SP.	8.33	10.41	1.25	0.01	0.02	1.73
PARALLORCHESTES OCHOT	1.67	2.89	1.73	0.00	0.00	0.00
ISCHYROCERUS ANGUIPES	20.00	34.64	1.73	0.01	0.02	1.73
ANONYX NUGAX	6.67	7.64	1.15	0.01	0.02	1.73
SYNCHELIDIUM SHOEMAKE	3.33	5.77	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	1.67	2.89	1.73	0.03	0.05	1.73
PARAPLEUSTES NAUTILUS	1.67	2.89	1.73	0.00	0.00	0.00
PLEUSIRUS SECCORUS	8.33	14.43	1.73	0.01	0.02	1.73
PODOCERUS SP.	3.33	5.77	1.73	0.03	0.05	1.73
CAPRELLIDEA	3.33	2.89	0.87	0.00	0.00	0.00
CAPRELLA SP.	13.33	23.09	1.73	0.01	0.02	1.73
HEPTACARPUS SP.	5.00	5.00	1.00	0.01	0.02	1.73
PAGURUS SP.	8.33	14.43	1.73	0.00	0.00	0.00
OREGONIA GRACILIS	1.67	2.89	1.73	0.01	0.02	1.73
PUGETTIA GRACILIS	23.33	40.41	1.73	1.61	2.79	1.73
CANCER SP.	18.33	31.75	1.73	0.31	0.54	1.73
CANCER OREGONENSIS	1.67	2.89	1.73	2.65	4.58	1.73
PINNIXA OCCIDENTALIS	1.67	2.89	1.73	0.01	0.02	1.73
SIPUNCULA	6.67	11.55	1.73	0.01	0.02	1.73
OPHIUROIDEA	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
81.00	3.35	1403.33	504.85

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MONOSTROMA ZOSTERICOL	0.00	0.00	0.00	1.89	2.57	1.36
LAMINARIA SETCHELLII	0.00	0.00	0.00	18.79	32.54	1.73
CYSTOSEIRA GEMINATA	0.00	0.00	0.00	7.20	11.76	1.63
PORPHYRA NAIADUM	0.00	0.00	0.00	11.36	19.68	1.73
PLOCAMIUM COCCINEUM	0.00	0.00	0.00	0.11	0.18	1.73
PLOCAMIUM VIOLACEUM	0.00	0.00	0.00	1.92	3.33	1.73
IRIDAEA CORDATA	0.00	0.00	0.00	2.64	2.40	0.91
RHODOGLOSSUM ROSEUM	0.00	0.00	0.00	1.30	1.29	0.99
MELOBESIA MEDIOCRIS	0.00	0.00	0.00	1.33	1.15	0.87
PRIONITIS LANCEOLATA	0.00	0.00	0.00	4.04	6.99	1.73
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	0.05	0.08	1.73
CRYPTOPLEURA LOBULIFE	0.00	0.00	0.00	24.53	36.53	1.49
GONIMOPHYLLUM SKOTTSB	0.00	0.00	0.00	0.51	0.48	0.94
BOTRYOGLOSSUM FARLOWI	0.00	0.00	0.00	2.96	5.13	1.73
LAURENCIA SPECTABILIS	0.00	0.00	0.00	13.32	14.88	1.12
DOONTHALIA FLOCCOSA	0.00	0.00	0.00	18.83	32.62	1.73
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	231.93	203.05	0.88
HALICLYSTUS SP.	1.67	2.89	1.73	0.45	0.77	1.73
NEMERTEA	26.67	14.43	0.54	0.61	0.72	1.19
NEMATODA	85.00	88.88	1.05	0.04	0.05	1.04
HARMOTHOE IMBRICATA	3.33	2.89	0.87	0.08	0.10	1.31
PHYLLODOCE MACULATA	5.00	5.00	1.00	0.00	0.00	0.00
EULALIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
HESIONURA COINEAUI DI	33.33	49.33	1.48	0.01	0.02	1.73
MICROPODARKE DUBIA	43.33	33.29	0.77	0.08	0.07	0.93
TYPOSYLLIS SP.	176.67	77.51	0.44	0.21	0.12	0.56
EXOGONE SP.	363.33	404.42	1.11	0.16	0.20	1.29
SPHAEROSYLLIS SP.	31.67	42.52	1.34	0.01	0.02	1.73
NEREIS SP.	1.67	2.89	1.73	0.01	0.02	1.73
PLATYNEREIS BICANALIC	15.00	17.32	1.15	1.18	0.80	0.68
ONUPHIS SP.	230.00	285.44	1.24	1.96	3.07	1.57
LUMBRINERIS SP.	23.33	18.93	0.81	0.95	1.06	1.12
DORVILLEA SP.	3.33	5.77	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACIL	61.67	55.08	0.89	0.04	0.05	1.04
PARAONIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
SPIO FILICORNIS	10.00	10.00	1.00	0.14	0.21	1.50
MALACOCEROS GLUTAEUS	13.33	10.41	0.78	0.01	0.02	1.73
CIRRATULUS CIRRATUS	53.33	75.72	1.42	3.38	5.56	1.65
CHAETOZONE SP.	75.00	39.69	0.53	0.36	0.43	1.19
ARMANDIA BREVIS	1.67	2.89	1.73	0.00	0.00	0.00
CAPITELLA CAPITATA	13.33	18.93	1.42	0.00	0.00	0.00
NOTOMASTUS TENUIS	3.33	2.89	0.87	0.04	0.05	1.04
MEDICMASTUS SP.	21.67	20.21	0.93	0.06	0.07	1.20
BRANCHIOMALDANE SP.	58.33	84.31	1.45	0.14	0.21	1.50
MALDANIDAE	1.67	2.89	1.73	0.01	0.02	1.73
AXIOTHELLA RUBROCINCT	10.00	17.32	1.73	0.31	0.54	1.73
TEREBELLIDAE	70.00	82.61	1.18	1.17	1.08	0.92
PISTA SP.	8.33	14.43	1.73	0.05	0.08	1.73
THELEPUS CRISPUS	3.33	5.77	1.73	3.21	5.57	1.73
CHONE INFUNDIBULIFORM	3.33	2.89	0.87	0.01	0.02	1.73
SACCOCIRRUS EPOTICUS	40.00	43.30	1.08	0.00	0.00	0.00
OLIGOCHAETA	726.67	197.76	0.27	0.29	0.18	0.61
LACUNA SP.	160.00	151.74	0.95	1.44	1.47	1.02
ALVINIA SP.	1.67	2.89	1.73	0.01	0.02	1.73
TONICELLA LINEATA	3.33	5.77	1.73	0.08	0.14	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
AMPHISSA COLUMBIANA	6.67	5.77	0.87	0.46	0.53	1.15
SPARLESIA DIRA	1.67	2.89	1.73	0.75	1.30	1.73
GLYCYMERIS SP.	20.00	10.00	0.50	0.06	0.03	0.51
MYSELLA TUMIDA	1.67	2.89	1.73	0.00	0.00	0.00
PSEPHIDIA LORDI	3.33	5.77	1.73	1.68	2.91	1.73
MYSIDAE	1.67	2.89	1.73	0.00	0.00	0.00
ACANTHOMYSIS SP.	1.67	2.89	1.73	0.01	0.02	1.73
ARCHAEOMYSIS GREBNITZ	1.67	2.89	1.73	0.00	0.00	0.00
EXOSPHAEROMA AMPLICAU	20.00	30.41	1.52	0.11	0.20	1.73
IDOTEA OCHOTENSIS	3.33	5.77	1.73	0.01	0.02	1.73
IDOTEA ACULEATA	28.33	22.55	0.80	0.16	0.20	1.28
JANIROPSIS KINCAIDI D	11.67	20.21	1.73	0.01	0.02	1.73
AMPHIPODA GAMMARIDEA	16.67	17.56	1.05	0.03	0.02	0.87
AMPITHOE SP.	3.33	2.89	0.87	0.00	0.00	0.00
AORDIDES COLUMBIAE	6.67	11.55	1.73	0.00	0.00	0.00
PONTOGENEIA INERMIS	95.00	21.79	0.23	0.12	0.06	0.47
PONTOGENEIA ROSTRATA	211.67	200.40	0.95	0.36	0.42	1.18
AMPHIPODA GAMMARIDAE	11.67	16.07	1.38	0.01	0.02	1.73
MELITA CALIFORNICA	3.33	5.77	1.73	0.00	0.00	0.00
HYALE SP.	10.00	13.23	1.32	0.03	0.05	1.73
PHOTIS SP.	6.67	7.64	1.15	0.00	0.00	0.00
PROTOMEDEIA SP.	8.33	10.41	1.25	0.00	0.00	0.00
ANONYX NUGAX	3.33	5.77	1.73	0.01	0.02	1.73
PHOXOCEPHALIDAE	1.67	2.89	1.73	0.01	0.02	1.73
PLEUSIPUS SECCORUS	10.00	10.00	1.00	0.00	0.00	0.00
CAPRELLIDEA	3.33	2.89	0.87	0.01	0.02	1.73
CAPRELLA SP.	6.67	11.55	1.73	0.01	0.02	1.73
HEPTACARPUS SP.	1.67	2.89	1.73	0.05	0.08	1.73
PAGURUS SP.	3.33	2.89	0.87	0.00	0.00	0.00
PUGETTIA PRODUCTA	3.33	5.77	1.73	0.60	1.03	1.73
PUGETTIA GRACILIS	5.00	8.66	1.73	0.08	0.14	1.73
CANCER SP.	20.00	13.23	0.66	0.28	0.41	1.48
PINNIXA OCCIDENTALIS	15.00	21.79	1.45	0.33	0.58	1.73
SIPUNCULA	50.00	55.68	1.11	0.14	0.18	1.23

NSPEC	SDI	TMEANC	TMEANW
89.00	3.80	2984.99	364.57

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NAVICULA SP.	0.00	0.00	0.00	0.31	0.54	1.73
MONOSTROMA FUSCUM	0.00	0.00	0.00	0.59	1.02	1.73
ENTEROMORPHA LINZA	0.00	0.00	0.00	0.50	0.83	1.66
ULVA LOBATA	0.00	0.00	0.00	0.32	0.55	1.73
CLADOPHORA TRICHOTOMA	0.00	0.00	0.00	0.25	0.43	1.73
LAMINARIA SACCHARINA	0.00	0.00	0.00	13.99	18.79	1.34
DESMARESTIA ACULEATA	0.00	0.00	0.00	0.31	0.54	1.73
PORPHYRA MINIATA	0.00	0.00	0.00	1.13	1.96	1.73
PORPHYRA OCCIDENTALIS	0.00	0.00	0.00	53.07	46.40	0.87
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	101.42	47.75	0.47
STENOGRAMME INTERRUPT	0.00	0.00	0.00	0.57	0.70	1.23
IRIDAEA CORDATA	0.00	0.00	0.00	58.61	101.52	1.73
RHODYMENIA PALMATA	0.00	0.00	0.00	15.76	2.57	0.16
SCAGELIA OCCIDENTALE	0.00	0.00	0.00	5.11	3.36	0.66
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.37	0.32	0.87
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	3.49	2.05	0.59
LAURENCIA SPECTABILIS	0.00	0.00	0.00	4.54	6.90	1.51
PTEROCHONDRIA WOODII	0.00	0.00	0.00	0.22	0.29	1.26
NEMERTEA	40.00	15.00	0.38	0.20	0.09	0.47
NEMATODA	228.33	79.74	0.35	0.28	0.10	0.37
POLYCHAETA	0.00	0.00	0.00	0.23	0.13	0.56
HARMOTHOE IMBRICATA	5.00	5.00	1.00	0.03	0.05	1.73
PHOLOE MINUTA	1.67	2.89	1.73	0.01	0.02	1.73
PHYLLODOCE MACULATA	1.67	2.89	1.73	0.01	0.02	1.73
ETEONE SP.	8.33	10.41	1.25	0.10	0.13	1.39
EULALIA SP.	1.67	2.89	1.73	0.01	0.02	1.73
HESIONURA COINEAUI DI	26.67	20.21	0.76	0.01	0.02	1.73
OPHIODROMUS PUGETTENS	1.67	2.89	1.73	0.00	0.00	0.00
MICRODDARKE DUBIA	250.00	51.96	0.21	0.42	0.10	0.25
TYPOSYLLIS SP.	6.67	7.64	1.15	0.00	0.00	0.00
EXOGONE SP.	301.67	311.82	1.03	0.14	0.13	0.94
SPHAEROSYLLIS SP.	535.00	654.43	1.22	0.14	0.17	1.24
PLATYNEREIS BICANALIC	6.67	7.64	1.15	0.11	0.16	1.43
GLYCERA SP.	1.67	2.89	1.73	0.08	0.14	1.73
HEMIPODUS BOREALIS	25.00	0.00	0.00	0.36	0.14	0.40
ONUPHIS SP.	198.33	109.13	0.55	0.89	0.40	0.44
DIOPATRA ORNATA	1.67	2.89	1.73	1.15	1.99	1.73
LUMBRINERIS SP.	1.67	2.89	1.73	0.05	0.08	1.73
PROTODORVILLEA GRACIL	26.67	7.64	0.29	0.01	0.02	1.73
SCOLOPLOS ARMIGER	3.33	5.77	1.73	0.08	0.14	1.73
PARAONIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
POLYDORA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	1.67	2.89	1.73	0.05	0.08	1.73
SPIO FILICORNIS	93.33	29.30	0.55	0.31	0.03	0.09
SPIOPHANES BOMBYX	5.00	5.00	1.00	0.04	0.05	1.04
MALACOCEROS GLUTAEUS	3.33	5.77	1.73	0.00	0.00	0.00
CIRRATULUS CIRRATUS	13.33	7.64	0.57	0.26	0.29	1.12
SCALIBREGMA INFLATUM	1.67	2.89	1.73	0.00	0.00	0.00
ARMANDIA BREVIS	3.33	5.77	1.73	0.00	0.00	0.00
CAPITELLA CAPITATA	1.67	2.89	1.73	0.00	0.00	0.00
NOTOMASTUS GIGANTEUS	3.33	2.89	0.87	0.26	0.30	1.16
MEDIOMASTUS SP.	23.33	7.64	0.33	0.12	0.03	0.23
MALDANIDAE	1.67	2.89	1.73	0.00	0.00	0.00
NICOMACHE PERSONATA	23.33	11.55	0.49	0.76	0.60	0.79
AXIOTHELLA RUBROCINCT	1.67	2.89	1.73	0.01	0.02	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CWENIA FUSIFORMIS	1.67	2.89	1.73	0.03	0.05	1.73
TEREBELLIDAE	41.67	35.12	0.84	0.24	0.22	0.92
SACCOCIRRUS PROTICUS	8.33	10.41	1.25	0.00	0.00	0.00
OLIGOCHAETA	308.33	156.87	0.51	0.07	0.03	0.39
MARGARITES PUPILLUS	13.33	18.93	1.42	0.16	0.24	1.52
LACUNA SP.	11.67	16.07	1.38	0.03	0.05	1.73
ALVINIA SP.	3.33	5.77	1.73	0.01	0.02	1.73
NATICA CLAUSA	1.67	2.89	1.73	0.01	0.02	1.73
AMPHISSA COLUMBIANA	1.67	2.89	1.73	0.00	0.00	0.00
GLYCYMERIS SP.	210.00	108.51	0.52	0.36	0.03	0.08
AXINOPSIDA SERRICATA	1.67	2.89	1.73	0.03	0.05	1.73
MYSELLA TUMIDA	11.67	7.64	0.65	0.03	0.02	0.87
ASTARTE ALASKENSIS	3.33	5.77	1.73	0.01	0.02	1.73
MACOMA SP.	5.00	8.66	1.73	0.80	1.38	1.73
SAXIDOMUS GIGANTEUS	1.67	2.89	1.73	0.96	1.67	1.73
PSEPHIDIA LORDI	78.33	5.77	0.07	1.03	0.02	0.02
MYA ARENARIA	1.67	2.89	1.73	0.17	0.29	1.73
LEPTOCHELIA SP.	35.00	32.79	0.94	0.01	0.02	1.73
EXOSPHAEROMA AMPLICAU	16.67	16.07	0.95	0.11	0.12	1.10
IDOTEA OCHOTENSIS	1.67	2.89	1.73	0.03	0.05	1.73
IDOTEA ACULEATA	5.00	8.66	1.73	0.18	0.31	1.73
AMPHIPODA GAMMARIDEA	5.00	8.66	1.73	0.03	0.05	1.73
AMPITHOE SP.	1.67	2.89	1.73	0.00	0.00	0.00
AORIDES COLUMBIAE	20.00	13.23	0.66	0.01	0.02	1.73
COROPHIUM SP.	3.33	2.89	0.87	0.00	0.00	0.00
PARAMOERA MOHRI	35.00	30.41	0.87	0.03	0.05	1.73
PONTOGENEIA INERMIS	5.00	5.00	1.00	0.00	0.00	0.00
PONTOGENEIA ROSTRATA	3.33	5.77	1.73	0.00	0.00	0.00
HYALE SP.	5.00	8.66	1.73	0.03	0.05	1.73
PHOTIS SP.	5.00	8.66	1.73	0.01	0.02	1.73
PROTOMEDEIA SP.	36.67	31.75	0.87	0.04	0.05	1.04
ISCHYROCERUS ANGUIPES	1.67	2.89	1.73	0.00	0.00	0.00
ANONYX NUGAX	1.67	2.89	1.73	0.05	0.08	1.73
SYNCHELIDIUM SHOEMAKE	1.67	2.89	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	3.33	2.89	0.87	0.00	0.00	0.00
PLEUSIRUS SECCOPUS	8.33	14.43	1.73	0.01	0.02	1.73
CAPRELLIDEA	3.33	2.89	0.87	0.00	0.00	0.00
CAPRELLA SP.	10.00	17.32	1.73	0.03	0.05	1.73
PUGETTIA GRACILIS	6.67	11.55	1.73	0.03	0.05	1.73
CANCER SP.	35.00	22.91	0.65	0.53	0.48	0.92
PINNIXA OCCIDENTALIS	5.00	0.00	0.00	0.04	0.00	0.00
STIPULA	20.00	30.41	1.52	0.10	0.17	1.73
LEPTOSYNAPTA CLARKI	20.00	8.66	0.43	0.77	0.33	0.42

NSPEC	SDI	TMEANC	TMEANW
98.00	3.81	2813.33	272.69

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LAMINARIA SACCHARINA	0.00	0.00	0.00	8.04	13.93	1.73
LAMINARIA SETCHELLII	0.00	0.00	0.00	68.09	119.49	1.75
DESMARESTIA ACULEATA	0.00	0.00	0.00	5.09	6.44	1.26
PORPHYRA MINIATA	0.00	0.00	0.00	14.92	21.28	1.43
PORPHYRA PERFORATA	0.00	0.00	0.00	0.76	1.31	1.73
PORPHYRA OCCIDENTALIS	0.00	0.00	0.00	4.69	8.13	1.73
NEOAGARDHIELLA BAILEY	0.00	0.00	0.00	18.17	31.47	1.73
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	59.31	50.96	0.86
STENOGRAMME INTERRUPT	0.00	0.00	0.00	1.69	1.82	1.08
GIGARTINA HARVEYANA	0.00	0.00	0.00	0.80	1.38	1.73
RHODOGLOSSUM ROSEUM	0.00	0.00	0.00	4.78	4.88	1.02
CRYPTONEMIA OVALIFOLI	0.00	0.00	0.00	1.08	1.86	1.73
GRATELOUPIA DORYPHORA	0.00	0.00	0.00	1.19	2.06	1.73
HALYMENIA COCCINEA	0.00	0.00	0.00	12.96	20.87	1.61
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	0.13	0.23	1.73
CALLOPHYLLIS HAENOPHY	0.00	0.00	0.00	0.70	1.21	1.73
RHODYMENIA PALMATA	0.00	0.00	0.00	2.98	3.14	1.05
ANTITHAMNION DENDROID	0.00	0.00	0.00	0.01	0.02	1.73
CERAMIUM PROCUMBENS	0.00	0.00	0.00	0.21	0.36	1.73
PTILOTA FILICINA	0.00	0.00	0.00	0.09	0.16	1.73
HOLLENBERGIA SURULATA	0.00	0.00	0.00	1.13	1.58	1.40
SCAGELIA OCCIDENTALE	0.00	0.00	0.00	1.61	1.60	1.00
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.50	0.46	0.91
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	0.40	0.69	1.73
LAURENCIA SPECTABILIS	0.00	0.00	0.00	10.58	6.58	0.62
PTEROCHONDRIA WOODII	0.00	0.00	0.00	0.68	0.75	1.09
NEMERTEA	20.00	10.00	0.50	0.56	0.57	1.02
NEMATODA	15.00	18.03	1.20	0.03	0.05	1.73
HARMOTHOE IMBRICATA	1.67	2.89	1.73	0.03	0.05	1.73
HESIONURA COINEAUI DI	78.33	77.84	0.99	0.03	0.02	0.87
MICROPODARKE DUBIA	151.67	100.17	0.66	0.21	0.13	0.61
TYPOSYLLIS SP.	11.67	10.41	0.89	0.00	0.00	0.00
EXOGONE SP.	8.33	5.77	0.69	0.00	0.00	0.00
SPHAEROSYLLIS SP.	158.33	127.12	0.80	0.04	0.05	1.04
PLATYNEREIS BICANALIC	3.33	2.89	0.87	0.01	0.02	1.73
NEPHTYS SP.	1.67	2.89	1.73	0.01	0.02	1.73
HEMIPODUS BOREALIS	8.33	2.89	0.35	0.06	0.07	1.20
GNUPHIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
DORVILLEA RUDOLPHI	1.67	2.89	1.73	0.20	0.34	1.73
PROTODORVILLEA GRACIL	28.33	20.21	0.71	0.00	0.00	0.00
SCOLOPLOS ARMIGER	1.67	2.89	1.73	0.01	0.02	1.73
SCOLOPLOS PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
SPIO FILICORNIS	3.33	5.77	1.73	0.01	0.02	1.73
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.01	0.02	1.73
CIRRATULUS CIRRATUS	3.33	2.89	0.87	0.13	0.13	0.96
CHAETOZONE SP.	20.00	15.00	0.75	0.01	0.02	1.73
CAPITELLA CAPITATA	1.67	2.89	1.73	0.00	0.00	0.00
MEDIOMASTUS SP.	13.33	7.64	0.57	0.01	0.02	1.73
AXIOTHELLA RUBROCINCT	8.33	7.64	0.92	0.06	0.07	1.20
TEREBELLIDAE	3.33	2.89	0.87	0.00	0.00	0.00
SACCOCIRRUS PROTICUS	1.67	2.89	1.73	0.00	0.00	0.00
OLIGOCHAETA	175.00	47.70	0.27	0.03	0.02	0.87
MARGARITES PUPILLUS	138.33	153.32	1.11	2.09	3.08	1.47
LACUNA SP.	3.33	5.77	1.73	0.01	0.02	1.73
ALVINIA SP.	11.67	12.58	1.08	0.01	0.02	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CALYPTRAEA FASTIGIATA	5.00	5.00	1.00	0.06	0.07	1.20
TONICELLA LINEATA	1.67	2.89	1.73	0.01	0.02	1.73
AMPHISSA COLUMBIANA	10.00	17.32	1.73	0.10	0.17	1.73
HANLEYA HANLEYI	1.67	2.89	1.73	0.01	0.02	1.73
GLYCYMERIS SP.	591.67	714.39	1.21	3.14	4.45	1.42
CYCLOCARDIA SP.	13.33	15.28	1.15	0.49	0.82	1.66
ASTARTE ALASKENSIS	15.00	21.79	1.45	2.24	1.9[illegible]	0.87
ASTARTE COMPACTA	5.00	8.66	1.73	2.33	4.04	1.73
CLINOCARDIUM SP. JUV.	1.67	2.89	1.73	0.00	0.00	0.00
TELLINA MODESTA	5.00	5.00	1.00	0.06	0.07	1.20
PSEPHIDIA LORDI	65.00	58.95	0.91	0.46	0.47	1.02
HUMILARIA KENNERLYI	1.67	2.89	1.73	0.03	0.05	1.73
TAPES JAPONICA	1.67	2.89	1.73	0.01	0.02	1.73
BALANUS CRENATUS	10.00	10.00	1.00	0.36	0.40	1.11
LEPTOCHELIA SP.	6.67	5.77	0.87	0.00	0.00	0.00
EXOSPHAEROMA AMPLICAU	40.00	40.93	1.02	0.28	0.30	1.06
ROCINELA BELLICEPS	1.67	2.89	1.73	0.05	0.08	1.73
IDOTEA ACULEATA	1.67	2.89	1.73	0.01	0.02	1.73
AMPHIPODA GAMMARIDEA	11.67	7.64	0.65	0.01	0.02	1.73
AMPITHOE SP.	3.33	5.77	1.73	0.01	0.02	1.73
AOROIDES COLUMBIAE	16.67	14.43	0.87	0.01	0.02	1.73
PARAMOERA MOHRI	5.00	5.00	1.00	0.00	0.00	0.00
PONTOGENEIA INERMIS	16.67	29.87	1.73	0.18	0.31	1.73
MELITA CALIFORNICA	6.67	5.77	0.87	0.01	0.02	1.73
PROTOMEDEIA SP.	28.33	36.86	1.30	0.01	0.02	1.73
PLEUSIRUS SECCOPUS	5.00	8.66	1.73	0.00	0.00	0.00
CAPRELLIDEA	1.67	2.89	1.73	0.00	0.00	0.00
HEPTACARPUS SP.	1.67	2.89	1.73	0.01	0.02	1.73
CANCER SP.	23.33	20.21	0.87	0.63	0.55	0.87
LEPTOSYNAPTA CLARKI	11.67	7.64	0.65	0.49	0.82	1.66

NSPEC	SDI	TMEANC	TMEANW
85.00	3.37	1788.33	236.10

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LAMINARIA SP.	0.00	0.00	0.00	1.23	2.13	1.73
DESMARESTIA LIGULATA	0.00	0.00	0.00	12.79	10.67	0.83
PLOCAMIUM COCCINEUM	0.00	0.00	0.00	7.67	10.17	1.33
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	0.67	1.16	1.73
STENOGRAMME INTERRUPT	0.00	0.00	0.00	0.88	0.58	0.65
RHODOGLOSSUM ROSEUM	0.00	0.00	0.00	0.40	0.69	1.73
CRYPTONEMIA OVALIFOLI	0.00	0.00	0.00	0.66	1.14	1.73
HALYMENIA SCHIZYMENIC	0.00	0.00	0.00	0.51	0.88	1.73
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	12.11	2.79	0.23
WEEKSIA HOWELLII	0.00	0.00	0.00	0.15	0.26	1.73
RHODYMENIA PACIFICA	0.00	0.00	0.00	1.56	2.48	1.59
ANTITHAMNION DENDROID	0.00	0.00	0.00	0.40	0.63	1.58
PLEONOSPORIUM VANCOUV	0.00	0.00	0.00	0.11	0.19	1.73
PTILOTA FILICINA	0.00	0.00	0.00	2.99	2.07	0.68
PLATYTHAMNION PECTINA	0.00	0.00	0.00	0.14	0.24	1.73
HOLLENBERGIA SUBULATA	0.00	0.00	0.00	0.03	0.05	1.73
CRYPTOPLEURA VIOLACEA	0.00	0.00	0.00	0.08	0.14	1.73
MEMBRANOPTERA WEEKSIA	0.00	0.00	0.00	0.28	0.17	0.60
POLYNEURA LATISSIMA	0.00	0.00	0.00	15.60	9.48	0.61
ANISOCLADELLA PACIFIC	0.00	0.00	0.00	3.58	1.91	0.53
PTEROSIPHONIA DENDROI	0.00	0.00	0.00	0.55	0.41	0.74
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	0.14	0.25	1.73
LOPHOSIPHONIA VILLUM	0.00	0.00	0.00	0.46	0.26	0.57
PTEROCHONDRIA WOODII	0.00	0.00	0.00	4.66	3.54	0.76
NEMERTEA	18.33	10.41	0.57	0.16	0.11	0.68
NEMATODA	11.67	7.64	0.65	0.01	0.02	1.73
HARMOTHOE IMBRICATA	10.00	5.00	0.50	0.13	0.15	1.17
PHOLOE MINUTA	11.67	7.64	0.65	0.04	0.05	1.04
PHYLLODOCE MACULATA	3.33	2.89	0.87	0.00	0.00	0.00
NEPHTYS CAECOIDES	1.67	2.89	1.73	0.00	0.00	0.00
MICRODORKE DUBIA	31.67	7.64	0.24	0.03	0.02	0.87
TYPOSYLLIS SP.	20.00	10.00	0.50	0.01	0.02	1.73
EXOGONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
SPHAEROSYLLIS SP.	26.67	24.66	0.92	0.00	0.00	0.00
PLATYNEREIS BICANALIC	3.33	2.89	0.87	0.03	0.02	0.87
GLYCERA SP.	1.67	2.89	1.73	0.90	1.55	1.73
HEMIPODUS BOREALIS	5.00	5.00	1.00	0.03	0.05	1.73
LUMBRINERIS SP.	1.67	2.89	1.73	0.03	0.05	1.73
DORVILLEA RUDOLPHI	3.33	5.77	1.73	0.01	0.02	1.73
PROTODORVILLEA GRACIL	40.00	10.00	0.25	0.03	0.02	0.87
POLYDORA SP.	6.67	5.77	0.87	0.03	0.02	0.87
PRIONOSPIO CIRRIFERA	3.33	5.77	1.73	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	11.67	7.64	0.65	0.14	0.21	1.50
SPIO FILICORNIS	40.00	35.00	0.88	0.13	0.13	0.96
SPIOPHANES BOMBYX	6.67	5.77	0.87	0.03	0.02	0.87
SPIOPHANES CIRRATA	3.33	2.89	0.87	0.00	0.00	0.00
CHAETOZONE SP.	33.33	16.07	0.48	0.16	0.08	0.51
SCALIBREGMA INFLATUM	16.67	5.77	0.35	0.14	0.15	1.01
ARMANDIA BREVIS	8.33	10.41	1.25	0.03	0.05	1.73
NOTOMASTUS GIGANTEUS	1.67	2.89	1.73	0.01	0.02	1.73
MEDIOMASTUS SP.	53.33	32.15	0.60	0.07	0.03	0.39
NICOMACHE PERSONATA	21.67	20.21	0.93	1.08	1.15	1.07
AXIOTHELLA RUBROCINCT	21.67	5.77	0.27	0.21	0.37	1.73
OWENIA FUSIFORMIS	1.67	2.89	1.73	0.03	0.05	1.73
AMPHARETE ARCTICA	6.67	7.64	1.15	0.05	0.08	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
TEREBELLIDAE	23.33	20.21	0.87	0.14	0.13	0.94
TEREBELLIDES STROEMI	1.67	2.89	1.73	0.51	0.89	1.73
SABELLIDAE	56.67	33.29	0.59	0.21	0.11	0.50
CHONE INFUNDIBULIFORM	5.00	5.00	1.00	0.89	1.51	1.69
PSEUDOPOTAMILLA OCCEL	1.67	2.89	1.73	0.00	0.00	0.00
OLIGOCHAETA	16.67	12.58	0.75	0.00	0.00	0.00
MARGARITES PUPILLUS	11.67	16.07	1.38	0.19	0.30	1.56
LACUNA SP.	1.67	2.89	1.73	0.00	0.00	0.00
ALVINIA SP.	10.00	8.66	0.87	0.04	0.05	1.04
CALYPTRAEA FASTIGIATA	15.00	5.00	0.33	1.47	2.35	1.60
TONICELLA LINEATA	1.67	2.89	1.73	0.01	0.02	1.73
AMPHISSA COLUMBIANA	5.00	8.66	1.73	0.20	0.34	1.73
DOTO SP.	1.67	2.89	1.73	0.00	0.00	0.00
HANLEYA HANLEYI	15.00	5.00	0.33	0.24	0.13	0.55
CYANOPLAX DENTIENS	5.00	8.66	1.73	0.05	0.08	1.73
ISCHNOCHITON RETIPORO	8.33	7.64	0.92	0.30	0.40	1.34
KATHARINA TUNICATA	1.67	2.89	1.73	0.03	0.05	1.73
MOPALIA SP. JUV.	1.67	2.89	1.73	0.01	0.02	1.73
NUCULANA HAMATA	1.67	2.89	1.73	0.01	0.02	1.73
GLYCYMERIS SP.	60.00	73.99	1.23	0.17	0.23	1.33
MUSCULUS SP. JUV.	3.33	5.77	1.73	0.01	0.02	1.73
MODIOLUS RECTUS	1.67	2.89	1.73	0.01	0.02	1.73
CYCLOCARDIA SP.	33.33	20.21	0.61	2.51	2.40	0.96
GLANS SUBQUADRATA	1.67	2.89	1.73	0.01	0.02	1.73
ASTARTE ALASKENSIS	33.33	15.28	0.46	5.96	3.32	0.56
ASTARTE COMPACTA	8.33	2.89	0.35	5.31	2.64	0.50
CLINOCARDIUM CILIATUM	1.67	2.89	1.73	4.15	7.18	1.73
CLINOCARDIUM CALIFORN	3.33	2.89	0.87	1.86	1.69	0.91
MACOMA SP.	1.67	2.89	1.73	0.01	0.02	1.73
PSEPHIDIA LORDI	1.67	2.89	1.73	0.00	0.00	0.00
HUMILARIA KENNERLYI	1.67	2.89	1.73	65.11	112.78	1.73
MYA ARENARIA	3.33	2.89	0.87	0.06	0.07	1.20
BALANUS CRENATUS	5.00	5.00	1.00	0.51	0.81	1.58
LEPTOCHELIA SP.	50.00	26.46	0.53	0.04	0.00	0.00
EXOSPHAEROMA AMPLICAU	3.33	5.77	1.73	0.03	0.05	1.73
IDOTEA ACULEATA	5.00	8.66	1.73	0.01	0.02	1.73
IANIROPSIS KINCAIDI D	3.33	2.89	0.87	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	3.33	5.77	1.73	0.00	0.00	0.00
AMPELISCA SP.	1.67	2.89	1.73	0.00	0.00	0.00
AMPITHOE SP.	1.67	2.89	1.73	0.00	0.00	0.00
ADROIDES COLUMBIAE	5.00	5.00	1.00	0.00	0.00	0.00
ATYLUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
COROPHIUM SP.	85.00	112.69	1.33	0.08	0.14	1.73
PONTOGENEIA INERMIS	3.33	2.89	0.87	0.00	0.00	0.00
MELITA CALIFORNICA	30.00	32.79	1.09	0.09	0.08	0.87
HAUSTORIIDAE SP. A	1.67	2.89	1.73	0.00	0.00	0.00
HYALE SP.	5.00	5.00	1.00	0.01	0.02	1.73
PHOTIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTOMEDEIA SP.	75.00	47.70	0.64	0.14	0.18	1.23
PHOXOCEPHALIDAE	1.67	2.89	1.73	0.00	0.00	0.00
CAPRELLA SP.	6.67	11.55	1.73	0.01	0.02	1.73
DECAPODA CARIDEA	3.33	2.89	0.87	0.08	0.10	1.31
HEPTACARPUS SP.	11.67	2.89	0.25	0.09	0.02	0.25
PAGURUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PUGETTIA GRACILIS	3.33	5.77	1.73	0.03	0.05	1.73
CANCER SP.	35.00	15.00	0.43	0.64	0.30	0.48

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PINNIXA OCCIDENTALIS	13.33	23.09	1.73	0.05	0.08	1.73
SIPUNCULA	3.33	2.89	0.87	0.00	0.00	0.00
OPHIUROIDEA	1.67	2.89	1.73	0.01	0.02	1.73
LEPTOSYNAPTA CLARKI	3.33	2.89	0.87	0.21	0.22	1.05

NSPEC	SDI	TMEANC	TMEANW
115.00	4.63	1134.99	162.71

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
DELESSERIACEAE	0.00	0.00	0.00	0.01	0.03	2.00
ZOSTERA MARINA	0.00	0.00	0.00	0.35	0.70	2.00
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	0.25	0.50	2.00
PLATYHELMINTHES	11.25	22.50	2.00	0.01	0.02	2.00
NEMERTEA	1.25	2.50	2.00	0.00	0.00	0.00
NEMATODA	5.00	7.07	1.41	0.00	0.00	0.00
POLYCHAETA	6.25	6.29	1.01	0.00	0.00	0.00
SPIO FILICORNIS	1.25	2.50	2.00	0.00	0.00	0.00
POLYDORA COLUMBIANA	1.25	2.50	2.00	0.01	0.02	2.00
CHAETOZONE SP.	1.25	2.50	2.00	0.00	0.00	0.00
ARMANDIA BREVIS	1.25	2.50	2.00	0.01	0.02	2.00
OLIGOCHAETA	17.50	8.66	0.49	0.00	0.00	0.00
ACMAEIDAE JUV. <4MM	1.25	2.50	2.00	0.01	0.02	2.00
LITTORINA SCUTULATA	2.50	5.00	2.00	0.03	0.07	2.00
IDOTEA SP. JUV.	1.25	2.50	2.00	0.00	0.00	0.00
OPCHESTIA TRASKIANA	5.00	4.08	0.82	0.04	0.07	1.47

NSPEC	SDI	TMEANC	TMEANW
16.00	2.73	56.25	0.74

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MONOSTROMA FUSCUM	0.00	0.00	0.00	3.12	5.90	1.89
ENTEROMORPHA LINZA	0.00	0.00	0.00	0.13	0.26	2.00
ULVA SP.	0.00	0.00	0.00	1.10	1.71	1.55
ULVA FENESTRATA	0.00	0.00	0.00	2.48	2.97	1.19
PORPHYRA SP.	0.00	0.00	0.00	1.69	3.38	2.00
PLOCAMIUM VIOLACEUM	0.00	0.00	0.00	0.02	0.03	2.00
CRYPTONEMIA SP.	0.00	0.00	0.00	0.19	0.38	2.00
GIGARTINA SP.	0.00	0.00	0.00	1.54	1.73	1.12
GIGARTINA PAPILLATA	0.00	0.00	0.00	0.19	0.38	2.00
RHODOGLOSSUM ROSEUM	0.00	0.00	0.00	5.34	10.68	2.00
CALLOPHYLLIS SP.	0.00	0.00	0.00	0.05	0.10	2.00
NEOPTILOTA SP.	0.00	0.00	0.00	0.58	1.16	2.00
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	2.26	4.24	1.87
PTEROSIPHONIA SP.	0.00	0.00	0.00	0.00	0.00	2.00
LOPHOSIPHONIA VILLUM	0.00	0.00	0.00	0.00	0.00	0.00
PTEROSIPHONIA BIPINNA	0.00	0.00	0.00	0.08	0.16	2.00
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	0.47	0.90	1.93
ODONTHALIA WASHINGTON	0.00	0.00	0.00	0.04	0.08	2.00
LOPHOSIPHONIA PERTABU	0.00	0.00	0.00	2.33	2.97	1.27
PTEROCHONDRIA WOODII	0.00	0.00	0.00	0.00	0.00	0.00
ZOSTERA MARINA	0.00	0.00	0.00	0.06	0.13	2.00
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	1.85	3.29	1.78
ANTHOPLEURA ELEGANTIS	83.75	147.89	1.77	59.63	78.80	1.32
PLATYHELMINTHES	2.50	5.00	2.00	0.00	0.00	0.00
NEMERTEA	30.00	30.82	1.03	0.09	0.11	1.15
NEMATODA	255.00	438.37	1.72	0.33	0.67	2.00
HARMOTHOE SP.	1.25	2.50	2.00	0.01	0.02	2.00
PHOLOE MINUTA	2.50	5.00	2.00	0.00	0.00	0.00
ETEONE LONGA	1.25	2.50	2.00	0.00	0.00	0.00
HESIONURA COINEAUI DI	22.50	25.98	1.15	0.00	0.00	0.00
TYPOSYLLIS SP.	107.50	51.23	0.48	0.09	0.04	0.45
EXOGONE SP.	7.50	11.90	1.59	0.00	0.00	0.00
SPHAEROSYLLIS SP.	2.50	5.00	2.00	0.00	0.00	0.00
SPHAEROSYLLIS PIRIFER	6.25	12.50	2.00	0.00	0.00	0.00
NEREIS VEXILLOSA	1.25	2.50	2.00	0.67	1.34	2.00
PLATYNEREIS BICANALIC	2.50	5.00	2.00	0.03	0.07	2.00
HEMIPODUS BOREALIS	23.75	21.36	0.90	0.58	0.60	1.04
ONUPHIS SP.	370.00	313.82	0.85	3.80	3.48	0.92
LUMBRINERIS SP.	7.50	6.45	0.86	3.55	6.28	1.77
DORVILLEA SP.	2.50	2.89	1.15	0.00	0.00	0.00
PROTODORVILLEA GRACIL	210.00	156.47	0.75	0.04	0.04	0.87
SPIO FILICORNIS	2.50	2.89	1.15	0.02	0.02	1.15
SPIOPHANES SP.	2.50	2.89	1.15	0 00	0.00	0.00
PYGOSPIO ELEGANS	1.25	2.50	2.00	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	6.25	9.46	1.51	0.00	0.00	0.00
CIRRATULUS CIRRATUS	8.75	7.50	0.86	3.90	7.46	1.91
CHAETOZONE SP.	52.50	22.17	0.42	0.03	0.02	0.67
ARMANDIA BREVIS	1.25	2.50	2.00	0.00	0.00	0.00
CAPITELLA CAPITATA	6.25	9.46	1.51	0.01	0.02	2.00
BRANCHIOMALDANE VICEN	6.25	9.46	1.51	0.01	0.02	2.00
TEREBELLIDAE	17.50	22.17	1.27	0.56	0.55	0.99
SABELLIDAE	1.25	2.50	2.00	0.00	0.00	0.00
SACCOCIRRUS PROTICUS	32.50	51.72	1.59	0.00	0.00	0.00
OLIGOCHAETA	530.00	382.34	0.72	0.10	0.05	0.47
ACMAEIDAE JUV. <4MM	6.25	7.50	1.20	0.06	0.09	1.57

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NOTOACMEA SCUTUM	202.50	93.67	0.46	149.98	18.33	0.12
LACUNA SP.	13.75	16.01	1.16	0.01	0.02	2.00
SEAPLESIA DIRA	1.25	2.50	2.00	1.31	2.63	2.00
GLYCYMERIS SUBOBSOLET	2.50	5.00	2.00	0.01	0.02	2.00
MYSELLA TUMIDA	2.50	5.00	2.00	0.01	0.02	2.00
TANAIDACEA	3.75	7.50	2.00	0.00	0.00	0.00
GNORIMOSPHAEROMA OREG	2.50	5.00	2.00	0.00	0.00	0.00
EXOSPHAEROMA AMPLICAU	10.00	10.00	1.00	0.00	0.00	0.00
IDOTEA SP. JUV.	6.25	12.50	2.00	0.06	0.13	2.00
AMPHIPODA GAMMARIDEA	2.50	2.89	1.15	0.00	0.00	0.00
PONTOGENEIA SP.	51.25	60.19	1.17	0.05	0.04	0.79
MELITA SP.	7.50	8.66	1.15	0.01	0.02	2.00
HYALE SP.	133.75	221.03	1.65	1.38	2.42	1.75
ISCHYROCERUS ANGUIPES	38.75	74.20	1.91	0.00	0.00	0.00
PAGURUS HIRSUTIUSCULU	2.50	2.89	1.15	0.45	0.52	1.17
HEMIGRAPSUS NUDUS	26.25	30.92	1.18	117.98	158.82	1.35
SIPUNCULA	7.50	15.00	2.00	0.01	0.02	2.00
LEPTASTERIAS HEXACTIS	7.50	15.00	2.00	3.41	6.82	2.00
LEPTOSYNAPTA CLARKI	2.50	5.00	2.00	0.27	0.54	2.00

NSPEC	SDI	TMEANC	TMEANW
74.00	3.58	2340.00	372.06

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MONOSTROMA FUSCUM	0.00	0.00	0.00	130.39	72.46	0.56
ENTEROMORPHA LINZA	12.50	25.00	2.00	0.55	1.09	1.99
ULVA SP.	0.00	0.00	0.00	170.54	178.71	1.05
ULVA FENESTRATA	0.00	0.00	0.00	138.13	176.28	1.28
RHODOMELA LARIX	0.00	0.00	0.00	87.40	74.76	0.86
DESMARESTIA ACULEATA	0.00	0.00	0.00	0.00	0.01	2.00
FUCUS DISTICHUS	0.00	0.00	0.00	629.18	612.98	0.97
PORPHYRA SP.	0.00	0.00	0.00	4.16	8.32	2.00
NEOAGARDHIELLA BAILEY	0.00	0.00	0.00	3.64	7.11	1.95
SARCODIOTHECA FURCATA	0.00	0.00	0.00	6.69	13.39	2.00
PLOCAMIUM SP.	0.00	0.00	0.00	0.00	0.00	0.00
CRYPTONEMIA SP.	0.00	0.00	0.00	0.06	0.13	2.00
GIGARTINA SP.	0.00	0.00	0.00	162.90	289.90	1.78
GIGARTINA PAPILLATA	0.00	0.00	0.00	165.88	172.11	1.04
IRIDAEA SP.	0.00	0.00	0.00	3.46	4.80	1.39
RHODOGLOSSUM SP.	0.00	0.00	0.00	7.54	5.99	0.80
RHODOGLOSSUM ROSEUM	0.00	0.00	0.00	33.29	47.72	1.43
NEODILSEA SP.	0.00	0.00	0.00	0.07	0.14	2.00
PRIONITIS LANCEOLATA	0.00	0.00	0.00	14.00	28.00	2.00
CORALLINACEAE	0.00	0.00	0.00	0.01	0.02	2.00
CRYPTONEMIA SP.	0.00	0.00	0.00	0.00	0.00	2.00
PRIONITIS SP.	0.00	0.00	0.00	0.07	0.15	2.00
PRIONITIS LANCEOLATA	0.00	0.00	0.00	6.53	11.23	1.72
HALYMENIA SCHIZYMENIC	0.00	0.00	0.00	299.52	368.20	1.23
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	0.01	0.01	2.00
MICROCLADIA BOREALIS	0.00	0.00	0.00	80.61	110.48	1.37
CRYPTOPLEURA SP.	0.00	0.00	0.00	2.92	3.82	1.31
CRYPTOPLEURA LORULIFE	0.00	0.00	0.00	0.53	1.06	2.00
CRYPTOPLEURA VIOLACEA	0.00	0.00	0.00	2.58	5.16	2.00
HYMENENA SP.	0.00	0.00	0.00	0.25	0.50	2.00
POLYSIPHONIA PACIFICA	0.00	0.00	0.00	1.92	3.23	1.68
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	10.94	17.60	1.61
LAURENCIA SP.	0.00	0.00	0.00	0.01	0.02	2.00
LAURENCIA SPECTABILIS	0.00	0.00	0.00	33.41	66.82	2.00
RHODOMELA LARIX	0.00	0.00	0.00	639.00	736.64	1.15
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	15.29	29.37	1.92
LOPHOSIPHONIA REPTABU	0.00	0.00	0.00	0.00	0.01	2.00
ZOSTERA MARINA	0.00	0.00	0.00	8.38	16.71	1.99
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	9.72	13.35	1.37
HYDROZOA	0.00	0.00	0.00	0.31	0.63	2.00
ANTHOPLEURA ELEGANTIS	6.25	12.50	2.00	0.25	0.50	2.00
NEMERTEA	67.50	23.98	0.36	0.15	0.13	0.86
NEMATODA	111.25	110.93	1.00	0.02	0.04	2.00
POLYCHAETA	50.00	40.82	0.82	0.06	0.13	2.00
HALOSYDNA BREVISETOSA	7.50	11.90	1.59	7.01	12.54	1.79
HARMOTHOE SP.	2.50	5.00	2.00	0.02	0.04	2.00
HARMOTHOE IMBRICATA	6.25	12.50	2.00	0.13	0.25	2.00
PHYLLODOCE MACULATA	27.50	48.56	1.77	0.01	0.02	2.00
EULALIA SP.	40.00	31.36	0.78	0.13	0.27	2.00
HESIONURA COINEAUI DI	28.75	25.94	0.90	0.00	0.00	0.00
MICROPODARKE DUBIA	2.50	5.00	2.00	0.00	0.00	0.00
TYPOSYLLIS SP.	441.25	110.48	0.25	0.58	0.33	0.57
EXOGONE SP.	61.25	16.52	0.27	0.02	0.02	1.15
SPHAEROSYLLIS SP.	32.50	10.41	0.32	0.00	0.00	0.00
NEREIS VEXILLOSA	1.25	2.50	2.00	2.63	5.25	2.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PLATYNEREIS BICANALIC	65.00	49.67	0.76	0.87	0.73	0.84
GLYCERA SP.	1.25	2.50	2.00	0.91	1.82	2.00
HEMIPODUS BOREALIS	20.00	21.21	1.06	0.38	0.52	1.38
ONUPHIS SP.	8.75	11.81	1.35	0.05	0.10	2.00
LUMBRINERIS SP.	76.25	21.75	0.29	4.64	4.79	1.03
DORVILLEA SP.	10.00	10.80	1.08	0.00	0.00	0.00
PROTODORVILLEA GRACIL	506.25	316.08	0.62	0.10	0.06	0.61
NAINERIS DENDRITICA	2.50	5.00	2.00	0.44	0.88	2.00
NAINERIS UNCINATA	1.25	2.50	2.00	0.00	0.00	0.00
SPIO FILICORNIS	8.75	4.79	0.55	0.04	0.07	1.47
MALACOCEROS GLUTAEUS	7.50	8.66	1.15	0.00	0.00	0.00
CIRRATULUS CIRRATUS	120.00	94.25	0.79	13.45	16.14	1.20
CHAETOZONE SP.	282.50	126.92	0.45	0.44	0.49	1.11
ARMANDIA BREVIS	10.00	12.25	1.22	0.01	0.02	2.00
CAPITELLA CAPITATA	47.50	53.93	1.14	0.07	0.12	1.65
NOTOMASTUS TENUIS	22.50	13.23	0.59	1.61	0.64	0.40
MEDIOMASTUS AMBISETA	1.25	2.50	2.00	0.00	0.00	0.00
BRANCHIOMALDANE VICEN	36.25	46.97	1.30	0.27	0.49	1.80
TEREBELLIDAE	6.25	7.50	1.20	0.06	0.07	1.21
THELEPUS SP.	78.75	141.33	1.79	28.38	50.15	1.77
THELEPUS CRISPUS	487.50	510.51	1.05	193.63	169.11	0.87
SACCOCIRRUS PROTICUS	43.75	68.97	1.58	0.03	0.04	1.31
CLIOCHAETA	921.25	611.37	0.66	0.14	0.07	0.51
ACMAEIDAE JUV. <4MM	12.50	25.00	2.00	0.06	0.13	2.00
NOTOACMEA SCUTUM	25.00	20.41	0.82	44.06	44.00	1.00
MARGARITES PUPILLUS	2.50	5.00	2.00	0.01	0.02	2.00
LACUNA SP.	2006.25	2237.92	1.12	19.58	24.84	1.27
ALVINIA SP.	80.00	44.91	0.56	0.20	0.13	0.67
ODOSTOMIA SP.	2.50	5.00	2.00	0.02	0.04	2.00
ISCHNOCHITON SP.	1.25	2.50	2.00	0.02	0.04	2.00
MOPALIA LIGNOSA	6.25	12.50	2.00	34.81	69.63	2.00
GLYCYMERIS SUBOBSOLET	1.25	2.50	2.00	0.00	0.00	0.00
MODIOLUS RECTUS	6.25	12.50	2.00	0.13	0.25	2.00
SAXIDOMUS GIGANTEUS	6.25	7.50	1.20	0.14	0.26	1.82
EXOSPHAEROMA AMPLICAU	26.25	27.50	1.05	0.13	0.14	1.15
IDOTEA SP. JUV.	82.50	70.53	0.85	0.13	0.27	2.00
IDOTEA WOSNESENSKII	38.75	46.61	1.20	37.25	59.60	1.60
IDOTEA ACULEATA	31.25	31.46	1.01	1.75	2.53	1.45
AMPHIPODA GAMMARIDEA	41.25	33.26	0.81	0.06	0.13	2.00
AMPITHOE SP.	581.25	140.50	0.24	2.88	1.25	0.43
AMPITHOE SIMULANS	6.25	12.50	2.00	0.19	0.38	2.00
AOROIDES COLUMBIAE	86.25	63.95	0.74	0.00	0.00	0.00
PARAMOERA MOHRI	37.50	75.00	2.00	0.00	0.00	0.00
PONTOGENEIA SP.	33.75	26.89	0.80	0.18	0.16	0.90
MELITA SP.	1.25	2.50	2.00	0.00	0.00	0.00
HYALE SP.	2826.25	1326.84	0.47	6.13	3.28	0.53
PARALLORCHESTES OCHOT	531.25	320.87	0.60	6.02	3.71	0.62
ISCHYROCERUS SP. B	23.75	22.87	0.96	0.00	0.00	0.00
ISCHYROCERUS ANGUIPES	183.75	219.56	1.19	0.13	0.25	2.00
CRCHOMENE CF. PINGUIS	7.50	11.90	1.59	0.02	0.04	2.00
PHOXOCEPHALIDAE	6.25	12.50	2.00	0.00	0.00	0.00
PARAPLEUSTES SP.	6.25	12.50	2.00	0.00	0.00	0.00
PLEUSTES DEPRESSA	6.25	12.50	2.00	0.00	0.00	0.00
PAGURUS SP. JUV.	102.50	41.33	0.40	1.16	1.05	0.91
PAGURUS HIRSUTIUSCULU	6.25	12.50	2.00	7.75	15.50	2.00
PUGETTIA GRACILIS	70.00	104.16	1.49	17.03	19.11	1.12

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CANCER OREGONENSIS	12.50	14.43	1.15	336.38	671.08	2.00
PINNIXA OCCIDENTALIS	6.25	12.50	2.00	0.00	0.00	0.00
SIPUNCULA	26.25	22.50	0.86	0.17	0.12	0.69
ECTOPROCTA	0.00	0.00	0.00	0.63	1.25	2.00
LEPTASTERIAS HEXACTIS	35.00	33.42	0.95	29.04	36.75	1.27
LEPTOSYNAPTA CLARKI	2.50	2.89	1.15	0.08	0.12	1.39
GOBIESOX MEANDRICUS	6.25	12.50	2.00	0.50	1.00	2.00
CLIDOCOTTUS MACULOSUS	6.25	12.50	2.00	8.19	16.38	2.00

NSPEC	SDI	TMEANC	TMEANW
119.00	3.86	10645.00	3481.31

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LAMINARIA SP.	0.00	0.00	0.00	102.20	177.02	1.73
LAMINARIA SACCHARINA	0.00	0.00	0.00	10.54	17.16	1.63
EGREGIA MENZIESII	0.00	0.00	0.00	15.03	26.03	1.73
SARCODIOTHECA FURCATA	0.00	0.00	0.00	1.32	1.47	1.12
PLOCAMIUM PACIFICUM	0.00	0.00	0.00	8.16	7.22	0.88
IRIDAEA LINEARA	0.00	0.00	0.00	0.52	0.90	1.73
RHODOGLOSSUM SP.	0.00	0.00	0.00	4.43	7.67	1.73
DILSEA CALIFORNICA	0.00	0.00	0.00	1.35	2.34	1.73
CONSTANTINEA SUBULIFF	0.00	0.00	0.00	8.57	9.57	1.12
NEOPTILOTA SP.	0.00	0.00	0.00	2.57	4.46	1.73
CRYPTOPLEURA SP.	0.00	0.00	0.00	1.51	1.40	0.92
HYMENENA FLABELLIGERA	0.00	0.00	0.00	10.07	17.44	1.73
BOTRYOGLOSSUM FARLOWI	0.00	0.00	0.00	0.50	0.87	1.73
RHODOMELA SP.	0.00	0.00	0.00	50.50	38.80	0.77
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	2.94	5.04	1.71
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	401.42	276.66	0.69
NEMERTEA	20.00	15.00	0.75	0.01	0.02	1.73
NEMATODA	65.00	47.70	0.73	0.04	0.05	1.04
HARMOTHOE IMBRICATA	3.33	5.77	1.73	0.01	0.02	1.73
HESIONURA COINEAUI DI	15.00	13.23	0.88	0.00	0.00	0.00
MICROPODARKE DUBIA	15.00	5.00	0.33	0.04	0.00	0.00
TYPOSYLLIS SP.	55.00	73.65	1.34	0.13	0.13	0.96
EXOGONE SP.	36.67	25.66	0.70	0.00	0.00	0.00
SPHAEROSYLLIS SP.	45.00	26.46	0.59	0.00	0.00	0.00
NEREIS SP.	1.67	2.89	1.73	0.10	0.17	1.73
PLATYNEREIS BICANALIC	8.33	7.64	0.92	3.38	5.22	1.54
HEMIPODUS BOREALIS	5.00	5.00	1.00	0.64	1.08	1.68
ONUPHIS SP.	185.00	155.24	0.84	0.98	1.13	1.16
LUMBRINERIS SP.	5.00	8.66	1.73	0.03	0.05	1.73
PROTODORVILLEA GRACII	28.33	16.07	0.57	0.00	0.00	0.00
NAINERIS UNCINATA	1.67	2.89	1.73	1.38	2.39	1.73
PARAONIS LYRA	1.67	2.89	1.73	0.00	0.00	0.00
POLYDORA SOCIALIS	1.67	2.89	1.73	0.01	0.02	1.73
PRIONOSPIO CIRRIFERA	1.67	2.89	1.73	0.00	0.00	0.00
SPIO FILICORNIS	73.33	53.46	0.73	0.32	0.12	0.36
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	15.00	21.79	1.45	0.01	0.02	1.73
CIRRATULUS CIRRATUS	3.33	5.77	1.73	0.10	0.17	1.73
CHAETOZONE SP.	21.67	11.55	0.53	0.01	0.02	1.73
ACROCIRRUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
SCALIBREGMA INFLATUM	1.67	2.89	1.73	0.00	0.00	0.00
ARMANDIA BREVIS	143.33	231.16	1.61	0.33	0.53	1.63
CAPITELLA CAPITATA	6.67	11.55	1.73	0.00	0.00	0.00
MEDIOMASTUS AMBISETA	5.00	8.66	1.73	0.00	0.00	0.00
BRANCHIOMALDANE VICEN	3.33	5.77	1.73	0.00	0.00	0.00
TEREBELLIDAE	33.33	30.55	0.92	0.90	0.85	0.95
PISTA SP.	5.00	8.66	1.73	0.08	0.14	1.73
THELEPUS CRISPUS	3.33	5.77	1.73	0.86	1.50	1.73
PROTODRILUS FLABELLIG	5.00	8.66	1.73	0.01	0.02	1.73
SACCOCIRRUS EROTICUS	108.33	153.32	1.42	0.03	0.05	1.73
OLIGOCHAETA	298.33	67.88	0.23	0.09	0.02	0.25
ACMAEIDAE JUV. <4MM	1.67	2.89	1.73	0.03	0.05	1.73
MARGARITES PUPILLUS	10.00	10.00	1.00	0.20	0.27	1.36
LACUNA SP.	36.67	42.52	1.16	0.51	0.85	1.67
ALVINIA SP.	126.67	193.99	1.53	0.53	0.84	1.59

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
VELUTINA PROLONGATA	1.67	2.89	1.73	0.08	0.14	1.73
NATICA CLAUSA	6.67	11.55	1.73	0.01	0.02	1.73
NUCELLA LAMELLOSA	1.67	2.89	1.73	0.05	0.08	1.73
AMPHISSA COLUMBIANA	5.00	5.00	1.00	0.06	0.07	1.20
GLYCYMERIS SUBOBSOLET	31.67	24.66	0.78	0.07	0.03	0.39
MYSELLA TUMIDA	3.33	2.89	0.87	0.00	0.00	0.00
SAXIDOMUS GIGANTEUS	3.33	5.77	1.73	0.03	0.05	1.73
PSEPHIDIA LORDI	1.67	2.89	1.73	0.01	0.02	1.73
ARCHAEOMYSIS GREBNITZ	1.67	2.89	1.73	0.08	0.14	1.73
TANAIDACEA SP. A	1.67	2.89	1.73	0.00	0.00	0.00
ANATANAIS NORMANI	1.67	2.89	1.73	0.00	0.00	0.00
EXOSPHAEROMA SP.	5.00	5.00	1.00	0.01	0.02	1.73
IDOTEA ACULEATA	25.00	35.00	1.40	1.51	1.45	0.96
LANIROPSIS KINCAIDI D	16.67	28.87	1.73	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	3.33	2.89	0.87	0.00	0.00	0.00
AMPITHOE SP.	1.67	2.89	1.73	0.00	0.00	0.00
ATYLUS SP.	1.67	2.89	1.73	0.01	0.02	1.73
POLYCHERIA OSBORNI	33.33	57.74	1.73	0.01	0.02	1.73
PONTOGENEIA SP.	18.33	5.77	0.31	0.04	0.00	0.00
CERADOCUS SPINICAUDIS	16.67	28.87	1.73	0.06	0.11	1.73
HYALE SP.	8.33	10.41	1.25	0.03	0.05	1.73
PHOTIS SP.	16.67	24.66	1.48	0.14	0.21	1.50
ISCHYROCERUS ANGUIPES	5.00	8.66	1.73	0.00	0.00	0.00
ORCHOMENE CF. PINGUIS	1.67	2.89	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	10.00	13.23	1.32	0.05	0.08	1.73
PLEUSTES DEPRESSA	3.33	2.89	0.87	0.00	0.00	0.00
PAGURUS SP. JUV.	1.67	2.89	1.73	0.01	0.02	1.73
PUGETTIA GRACILIS	6.67	7.64	1.15	4.94	8.44	1.71
SIPUNCULA	20.00	22.91	1.15	0.13	0.11	0.87
OPHIUROIDEA	3.33	5.77	1.73	0.01	0.02	1.73

NSPEC	SDI	TMEANC	TMEANW
85.00	3.84	1658.33	639.78

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MONOSTROMA SP.	0.00	0.00	0.00	0.02	0.03	1.73
LAMINARIA SP.	0.00	0.00	0.00	0.31	0.39	1.28
NEOAGARDHIELLA BAILEY	0.00	0.00	0.00	1.13	1.96	1.73
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	6.65	2.69	0.40
STENOGRAMME INTERRUPT	0.00	0.00	0.00	0.30	0.27	0.88
ANTITHAMNION SP.	0.00	0.00	0.00	0.03	0.05	1.48
CERAMIUM GARDNERI	0.00	0.00	0.00	0.60	0.35	0.58
PLEONOSPERIUM APYSICO	0.00	0.00	0.00	0.00	0.00	0.00
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.67	1.07	1.60
PTEROSIPHONIA BIPINNA	0.00	0.00	0.00	0.05	0.09	1.73
CORNTHALIA WASHINGTON	0.00	0.00	0.00	0.02	0.03	1.38
LOPHOSIPHONIA REPTABU	0.00	0.00	0.00	0.01	0.01	1.73
NEMERTEA	8.33	5.77	0.69	0.03	0.05	1.73
NEMATODA	33.33	20.82	0.62	0.03	0.02	0.87
HARMOTHOE IMPRICATA	6.67	5.77	0.87	0.08	0.07	0.93
PHOLOE MINUTA	1.67	2.89	1.73	0.00	0.00	0.00
PHYLLODOCE SP.	1.67	2.89	1.73	0.00	0.00	0.00
ETEONE SP.	6.67	5.77	0.87	0.04	0.05	1.04
HESIONURA COINEAUI DI	46.67	50.58	1.08	0.00	0.00	0.00
HESIONIDAE	1.67	2.89	1.73	0.00	0.00	0.00
MICRODDARKE DUBIA	108.33	36.86	0.34	0.14	0.09	0.64
TYPOSYLLIS SP.	6.67	7.64	1.15	0.00	0.00	0.00
EXOGONE SP.	43.33	28.43	0.66	0.00	0.00	0.00
SPHAEROSYLLIS SP.	296.67	137.69	0.46	0.09	0.05	0.56
PLATYNEREIS BICANALIC	1.67	2.89	1.73	0.01	0.02	1.73
NEPHTYS LONGOSETOSA	5.00	5.00	1.00	0.21	0.33	1.57
HEMIPODUS BOREALIS	13.33	2.89	0.22	1.21	1.48	1.23
GLYCINDE PICTA	1.67	2.89	1.73	0.01	0.02	1.73
ONUPHIS SP.	3.33	2.89	0.87	0.00	0.00	0.00
LUMBRINERIS SP.	1.67	2.89	1.73	0.10	0.17	1.73
DORVILLEA SP.	3.33	5.77	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACIL	30.00	32.79	1.09	0.01	0.02	1.73
SCOLOPLOS ARMIGER	15.00	5.00	0.33	0.11	0.06	0.54
SCOLOPLOS PUGETTENSIS	3.33	2.89	0.87	0.00	0.00	0.00
PARAONIS LYRA	1.67	2.89	1.73	0.00	0.00	0.00
SPIO FILICORNIS	11.67	2.89	0.25	0.11	0.08	0.72
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.00	0.00	0.00
AONIDES SP.	3.33	2.89	0.87	0.00	0.00	0.00
CIRRATULUS CIRRATUS	10.00	5.00	0.50	0.13	0.19	1.47
CHAETOZONE SP.	6.67	5.77	0.87	0.01	0.02	1.73
ACROCIRRUS SP.	3.33	2.89	0.87	0.00	0.00	0.00
ARMANDIA BREVIS	6.67	7.64	1.15	0.00	0.00	0.00
MEDIOMASTUS AMBISETA	38.33	40.10	1.05	0.28	0.41	1.46
NICOMACHE PERSONATA	13.33	10.41	0.78	0.66	0.77	1.17
AXIOTHELLA RUBROCINCT	1.67	2.89	1.73	0.00	0.00	0.00
AMPHARETE ARCTICA	5.00	8.66	1.73	0.00	0.00	0.00
TEREBELLIDAE	31.67	5.77	0.18	0.32	0.12	0.36
SABELLIDAE	8.33	5.77	0.69	0.04	0.05	1.04
SACCOCIRRUS PROTICUS	20.00	22.91	1.15	0.03	0.02	0.87
OLIGOCHAETA	221.67	152.75	0.69	0.09	0.05	0.56
MARGARITES PUPILLUS	36.67	51.07	1.39	0.74	1.21	1.63
MARGARITES LIRULATUS	6.67	11.55	1.73	0.03	0.05	1.73
LACUNA SP.	1.67	2.89	1.73	0.01	0.02	1.73
ALVINIA SP.	31.67	32.53	1.03	0.08	0.07	0.93
CREPIDULA NUMMARIA	1.67	2.89	1.73	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
GLYCYMERIS SUBORSOLET	653.33	356.73	0.55	2.92	1.27	0.44
MYSELLA TUMIDA	20.00	10.00	0.50	0.06	0.03	0.51
CYCLOCARDIA SP.	1.67	2.89	1.73	0.05	0.08	1.73
MACOMA SP.	1.67	2.89	1.73	0.01	0.02	1.73
PSEPHIDIA LORDI	123.33	63.31	0.51	0.99	0.66	0.66
LEPTOCHELIA SAVIGNYI	46.67	37.86	0.81	0.01	0.02	1.73
EXOSPHAEROMA SP.	15.00	15.00	1.00	0.09	0.10	1.02
IANIROPSIS KINCAIDI D	1.67	2.89	1.73	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	1.67	2.89	1.73	0.00	0.00	0.00
AORIDES COLUMBIAI	26.67	25.17	0.94	0.01	0.02	1.73
PONTOGENEIA SP.	10.00	5.00	0.50	0.00	0.00	0.00
MELITA SP.	3.33	2.89	0.87	0.00	0.00	0.00
PHOTIS SP.	3.33	5.77	1.73	0.00	0.00	0.00
PLEUSTRUS SECORRUS	3.33	5.77	1.73	0.00	0.00	0.00
HEPTACARPUS BREVIROST	1.67	2.89	1.73	0.18	0.31	1.73
PAGURUS SP. JUV.	1.67	2.89	1.73	0.01	0.02	1.73
PAGURUS BERINGANUS	1.67	2.89	1.73	0.05	0.08	1.73
PUGETTIA GRACILIS	1.67	2.89	1.73	0.01	0.02	1.73
CANCER OREGONENSIS	15.00	5.00	0.33	1.19	0.72	0.61
LEPTOSYNAPTA CLARKI	46.67	25.66	0.55	1.62	1.30	0.80

NSPEC	SDI	TMEANC	TMEANW
75.00	3.62	2083.33	21.60

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
DESMARESTIA LIGULATA	0.00	0.00	0.00	0.17	0.29	1.73
RHODOPHYTA	0.00	0.00	0.00	1.25	1.87	1.50
SARCODIOTHECA FURCATA	0.00	0.00	0.00	0.00	0.01	1.73
PLOCAMIUM PACIFICUM	0.00	0.00	0.00	0.70	0.87	0.96
STENOGRAMME INTERRUPT	0.00	0.00	0.00	2.12	1.12	0.53
GIGARTINA SP.	0.00	0.00	0.00	1.15	1.99	1.73
CRYPTONEMIA SP.	0.00	0.00	0.00	1.06	1.84	1.73
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	1.80	1.08	0.60
BAUCHEA SP.	0.00	0.00	0.00	0.80	1.38	1.73
NIENBURGIA ANDERSONIA	0.00	0.00	0.00	0.72	0.55	0.77
PLEONOSPORIUM SP.	0.00	0.00	0.00	0.02	0.03	1.73
PLATYTHAMNION SP.	0.00	0.00	0.00	0.00	0.00	0.00
NEOPTILOTA SP.	0.00	0.00	0.00	1.68	1.19	0.71
MEMBRANOPTERA MULTIPA	0.00	0.00	0.00	0.04	0.04	0.93
POLYNEURA LATISSIMA	0.00	0.00	0.00	1.73	2.04	1.18
PTEROCHONDRIA WOODII	0.00	0.00	0.00	0.05	0.05	0.97
PLATYHELMINTHES	1.67	2.89	1.73	0.00	0.00	0.00
NEMERTEA	16.67	7.64	0.46	0.08	0.07	0.93
NEMATODA	20.00	8.66	0.43	0.00	0.00	0.00
HARMOTHOE IMBRICATA	6.67	7.64	1.15	0.16	0.24	1.52
PHOLOE MINUTA	11.67	12.58	1.08	0.07	0.06	0.79
ETEONE SP.	3.33	5.77	1.73	0.03	0.05	1.73
MICROPODARKE DUBIA	38.33	33.29	0.87	0.04	0.05	1.04
SYLLIDAE	3.33	2.89	0.87	0.00	0.00	0.00
TYPOSYLLIS SP.	20.00	8.66	0.43	0.01	0.02	1.73
EXOGONE SP.	5.00	0.00	0.00	0.00	0.00	0.00
SPHAEROSYLLIS SP.	41.67	18.93	0.45	0.00	0.00	0.00
NEPHTYS LONGOSETOSA	1.67	2.89	1.73	0.25	0.43	1.73
HEMIPODUS BOREALIS	8.33	2.89	0.35	0.05	0.08	1.73
GLYCINDE PICTA	1.67	2.89	1.73	0.05	0.08	1.73
PROTODORVILLEA GRACIL	15.00	5.00	0.33	0.00	0.00	0.00
PARAONIS LYRA	3.33	5.77	1.73	0.00	0.00	0.00
SPIONIDAE	0.00	0.00	0.00	0.28	0.27	0.98
PRIONOSPIO CIRRIFERA	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	11.67	2.89	0.25	0.09	0.05	0.56
SPIO SP.	30.00	18.03	0.60	0.16	0.08	0.51
SPIOPHANES BOMBYX	11.67	10.41	0.89	0.03	0.02	0.87
AONIDES SP.	6.67	2.89	0.43	0.01	0.02	1.73
CHAETOZONE SP.	8.33	2.89	0.35	0.04	0.00	0.00
ACROCIRRUS SP.	18.33	14.43	0.79	0.01	0.02	1.73
SCALIBREGMA INFLATUM	21.67	10.41	0.48	0.21	0.18	0.87
NOTOMASTUS GIGANTEUS	3.33	5.77	1.73	0.03	0.05	1.73
MEDIOMASTUS AMBISETA	48.33	18.93	0.39	0.06	0.03	0.51
NICOMACHE PERSONATA	3.33	5.77	1.73	0.11	0.20	1.73
AXIOTHELLA RUBROCINCT	15.00	5.00	0.33	0.00	0.00	0.00
OWENIA FUSIFORMIS	1.67	2.89	1.73	0.01	0.02	1.73
AMPHARETE ARCTICA	10.00	8.66	0.87	0.00	0.00	0.00
TEREBELLIDAE	35.00	5.00	0.14	0.11	0.12	1.10
SABELLIDAE	65.00	35.00	0.54	0.29	0.23	0.80
CHONE INFUNDIBULIFORM	26.67	29.30	1.10	0.08	0.10	1.31
SERPULA VERMICULARIS	1.67	2.89	1.73	0.00	0.00	0.00
OLIGOCHAETA	45.00	43.59	0.97	0.00	0.00	0.00
TECTURA FOSACEA	1.67	2.89	1.73	0.03	0.05	1.73
MARGARITES PUPILLUS	8.33	2.89	0.35	0.36	0.55	1.52
MARGARITES LIRULATUS	13.33	7.64	0.57	0.07	0.06	0.79

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CALYPTRAEA FASTIGIATA	10.00	5.00	0.50	1.27	1.64	1.28
NATICA CLAUSA	5.00	5.00	1.00	1.43	2.44	1.71
AMPHISSA COLUMBIANA	1.67	2.89	1.73	0.03	0.05	1.73
HANLEYA HANLEYI	35.00	21.79	0.62	0.29	0.25	0.86
LEPIDOZONA MERTENSII	10.00	17.32	1.73	0.80	1.38	1.73
NUCULA SP.	3.33	5.77	1.73	0.00	0.00	0.00
GLYCYMERIS SUBOBSOLET	25.00	8.66	0.35	0.04	0.00	0.00
MUSCULUS SP.	3.33	2.89	0.87	0.01	0.02	1.73
MYSELLA TUMIDA	1.67	2.89	1.73	0.00	0.00	0.00
CYCLOCARDIA SP.	15.00	13.23	0.88	0.09	0.05	0.56
ASTARTE ALASKENSIS	25.00	0.00	0.00	6.46	2.56	0.40
ASTARTE COMPACTA	3.33	5.77	1.73	1.85	3.20	1.73
MACOMA SP.	3.33	2.89	0.87	0.03	0.02	0.87
SAXIDOMUS GIGANTEUS	1.67	2.89	1.73	0.17	0.29	1.73
TAPES JAPONICA	1.67	2.89	1.73	117.00	202.65	1.73
MYA ARENARIA	5.00	0.00	0.00	0.54	0.87	1.60
BALANUS CRENATUS	11.67	20.21	1.73	2.45	4.24	1.73
TANAIDACEA SP. A	3.33	5.77	1.73	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	143.33	94.52	0.66	0.03	0.05	1.73
AMPHIPODA GAMMARIDEA	1.67	2.89	1.73	0.00	0.00	0.00
AMPELISCA SP.	1.67	2.89	1.73	0.08	0.14	1.73
AMPITHOE SP.	5.00	8.66	1.73	0.11	0.20	1.73
ANONIDES COLUMBIAE	25.00	21.79	0.87	0.01	0.02	1.73
CORDPHIUM SP.	106.67	10.41	0.10	0.04	0.00	0.00
PONTOGENEIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
MELITA SP.	6.67	2.89	0.43	0.00	0.00	0.00
HYALE SP.	3.33	5.77	1.73	0.00	0.00	0.00
PARALLORCHESTES OCHOT	1.67	2.89	1.73	0.01	0.02	1.73
PHOTIS SP.	3.33	2.89	0.87	0.00	0.00	0.00
PLEUSIRUS SECORRUS	1.67	2.89	1.73	0.00	0.00	0.00
HEPTACARPUS SP.	1.67	2.89	1.73	0.15	0.25	1.73
UPOGEBIA PUGETTENSIS	1.67	2.89	1.73	0.18	0.31	1.73
CANCER OREGONENSIS	8.33	2.89	0.35	0.36	0.16	0.44
SIPUNCULA	8.33	7.64	0.92	3.31	3.32	1.00
OPHIUROIDEA	6.67	5.77	0.87	0.06	0.07	1.20
LEPTOSYNAPTA CLARKI	1.67	2.89	1.73	0.17	0.29	1.73

NSPEC	SDI	TMEANC	TMEANW
91.00	4.47	1081.66	153.17

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	6.25	6.29	1.01	0.00	0.00	0.00
NEMATODA	2.50	2.89	1.15	0.00	0.00	0.00
TYPOSYLLIS SP.	2.50	2.89	1.15	0.00	0.00	0.00
DORVILLEA SP.	1.25	2.50	2.00	0.00	0.00	0.00
PROTODORVILLEA GRACIL	1.25	2.50	2.00	0.00	0.00	0.00
CAPITELLIDAE	1.25	2.50	2.00	0.00	0.00	0.00
CAPITELLA CAPITATA	1.25	2.50	2.00	0.00	0.00	0.00
OLIGOCHAETA	6.25	7.50	1.20	0.00	0.00	0.00
LITTORINA SITKANA	3.75	4.79	1.28	0.28	0.48	1.69
AMPHISSA COLUMBIANA	1.25	2.50	2.00	0.06	0.13	2.00
AMPHIPODA GAMMARIDEA	1.25	2.50	2.00	0.00	0.00	0.00
PARAMOERA MOHRI	690.00	1010.37	1.46	1.69	2.69	1.58

NSPEC	SDI	TMEANC	TMEANW
12.00	0.92	718.75	2.04

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ANTHOPLEURA ELEGANTIS	1.67	2.89	1.73	0.08	0.14	1.73
NEMERTEA	18.33	18.93	1.03	0.10	0.13	1.39
NEMATODA	10.00	8.66	0.87	0.00	0.00	0.00
PHOLOE MINUTA	20.00	30.41	1.52	0.00	0.00	0.00
TYPOSYLLIS SP.	13.33	23.09	1.73	0.01	0.02	1.73
SPHAEROSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	5.00	0.00	0.00	0.01	0.02	1.73
HEMIPODUS BOREALIS	6.67	7.64	1.15	0.44	0.73	1.65
ONUPHIS SP.	38.33	62.12	1.62	0.09	0.10	1.07
PROTODORVILLEA GRACIL	25.00	39.05	1.56	0.00	0.00	0.00
TEREBELLIDAE	5.00	8.66	1.73	0.01	0.02	1.73
POLYCIRRUS KERGUELENS	6.67	11.55	1.73	0.06	0.11	1.73
OLIGOCHAETA	58.33	42.52	0.73	0.03	0.02	0.87
NOTOACMEA PERSONA	1.67	2.89	1.73	0.25	0.43	1.73
LITTORINA SITKANA	30.00	30.00	1.00	4.84	4.27	0.88
LITTORINA SCUTULATA	21.67	22.55	1.04	1.81	1.71	0.94
MYSELLA TUMIDA	1.67	2.89	1.73	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	1.67	2.89	1.73	0.00	0.00	0.00
GNORIMOSPHAEROMA OREG	5.00	5.00	1.00	0.08	0.10	1.31
EXOSPHAEROMA AMPLICAU	10.00	13.23	1.32	0.01	0.02	1.73
PARAMOERA MOHRI	26.67	34.03	1.28	0.06	0.07	1.20
LEPTOSYNAPTA CLARKI	1.67	2.89	1.73	0.01	0.02	1.73

NSPEC	SDI	TMEANC	TMEANW
22.00	3.13	310.00	7.91

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MONOSTROMA SP.	0.00	0.00	0.00	0.08	0.14	1.73
LAMINARIA SP.	0.00	0.00	0.00	46.36	80.30	1.73
CYMATHERE TRIPLICATA	0.00	0.00	0.00	3.48	6.03	1.73
ENDOCLADIA MURICATA	0.00	0.00	0.00	3.39	4.94	1.46
CALLOPHYLLIS SP.	0.00	0.00	0.00	0.00	0.00	0.00
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	0.26	0.44	1.73
ANTHOPLEURA ELEGANTIS	1.67	2.89	1.73	0.31	0.54	1.73
PLATYHELMINTHES	98.33	102.02	1.15	0.08	0.14	1.73
NEMERTEA	40.00	37.75	0.94	0.08	0.07	0.93
EMPLECTONEMA GRACILE	68.33	93.59	1.37	0.90	1.19	1.33
NEMATODA	13.33	15.28	1.15	0.00	0.00	0.00
PHOLOE MINUTA	6.67	7.64	1.15	0.00	0.00	0.00
PHYLLODOCE MACULATA	8.33	14.43	1.73	0.00	0.00	0.00
SYLLIDAE	10.00	13.23	1.32	0.00	0.00	0.00
TYPOSYLLIS SP.	25.00	31.22	1.25	0.00	0.00	0.00
TYPOSYLLIS ADAMANTEA	50.00	86.60	1.73	0.17	0.29	1.73
EXOGONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIDAE	1.67	2.89	1.73	0.03	0.05	1.73
NEREIS SP.	8.33	7.64	0.92	0.08	0.14	1.73
HEMIPODUS BOREALIS	1.67	2.89	1.73	0.05	0.08	1.73
ONUPHIS SP.	161.67	113.72	0.70	1.24	0.94	0.76
DORVILLEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACIL	21.67	25.66	1.18	0.00	0.00	0.00
POLYDORA COLUMBIANA	8.33	14.43	1.73	0.00	0.00	0.00
POLYDORA PROBOSCIDEA	1.67	2.89	1.73	0.01	0.02	1.73
PYGOSPIO ELEGANS	3.33	5.77	1.73	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	1.67	2.89	1.73	0.00	0.00	0.00
CIRRATULIDAE	1.67	2.89	1.73	0.00	0.00	0.00
CAPITELLA CAPITATA	1.67	2.89	1.73	0.00	0.00	0.00
NOTOMASTUS SP.	1.67	2.89	1.73	1.17	2.02	1.73
OLIGOCHAETA	53.33	58.59	1.10	0.01	0.02	1.73
ACMAEIDAE JUV. <4MM	11.67	12.58	1.08	0.10	0.13	1.39
COLLISELLA PELTA	8.33	14.43	1.73	0.17	0.29	1.73
COLLISELLA DIGITALIS	8.33	14.43	1.73	1.92	3.32	1.73
NOTOACMEA SCUTUM	8.33	14.43	1.73	5.25	9.09	1.73
NOTOACMEA PERSONA	160.00	40.93	0.26	23.05	20.07	0.87
LACUNA SP.	3.33	5.77	1.73	0.01	0.02	1.73
LITTORINA SITKANA	903.33	596.79	0.66	82.11	29.50	0.36
LITTORINA SCUTULATA	888.33	495.34	0.56	61.17	30.76	0.50
NUCELLA LAMELLOSA	8.33	14.43	1.73	28.42	49.22	1.73
NUCELLA EMARGINATA	8.33	14.43	1.73	1.08	1.88	1.73
MITRELLA TUBEROSA	1.67	2.89	1.73	0.03	0.05	1.73
EGGS (GASTROPODA)	0.00	0.00	0.00	0.08	0.14	1.73
GLYCYMERIS SUBOBSOLET	8.33	7.64	0.92	0.03	0.02	0.87
MYTILUS EDULIS	16.67	14.43	0.87	1.42	2.24	1.58
MYSELLA TUMIDA	1.67	2.89	1.73	0.00	0.00	0.00
CHTHAMALUS DALLI	510.00	619.21	1.21	4.85	4.96	1.02
BALANUS GLANDULA	3570.00	5126.99	1.44	235.46	349.15	1.48
LEPTOCHELIA SAVIGNYI	1.67	2.89	1.73	0.00	0.00	0.00
GNORIMOSPHAEROMA OREG	18.33	27.54	1.50	0.10	0.13	1.39
EXOSPHAEROMA SP.	125.00	216.51	1.73	0.08	0.14	1.73
EXOSPHAEROMA AMPLICAU	15.00	17.32	1.15	0.01	0.02	1.73
AMPHIPODA GAMMARIDEA	5.00	5.00	1.00	0.00	0.00	0.00
PARAMOERA MOHRI	130.00	174.36	1.34	0.13	0.15	1.17
PARALLORCHESTES SP.	8.33	14.43	1.73	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ORCHESTIA SP.	6.67	11.55	1.73	0.01	0.02	1.73
ORCHESTOIDEA SP.	83.33	144.34	1.73	0.17	0.29	1.73
PAGURUS HIRSUTIUSCULU	1.67	2.89	1.73	0.08	0.14	1.73
HEMIGRAPSUS NUDUS	38.33	18.93	0.49	2.29	1.34	0.59
DIPTERA LARVA	8.33	14.43	1.73	0.08	0.14	1.73
LEPTOSYNAPTA CLARKI	3.33	2.89	0.87	0.08	0.07	0.93

NSPEC	SDI	TMEANC	TMEANW
61.00	2.50	7144.98	505.87

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ENDOCLADIA MURICATA	0.00	0.00	0.00	2.55	4.42	1.73
CORALLINACEAE	0.00	0.00	0.00	0.00	0.01	1.73
GRONTHALIA FLOCCOSA	0.00	0.00	0.00	0.26	0.43	1.67
ANTHOPLEURA ELEGANTIS	18.33	16.07	0.88	6.05	5.30	0.88
PLATYHELMINTHES	100.00	114.56	1.15	0.18	0.16	0.87
NEMERTEA	38.33	27.54	0.72	0.04	0.00	0.00
NEMATODA	53.33	45.37	0.85	0.03	0.02	0.87
PHOLOE MINUTA	8.33	14.43	1.73	0.00	0.00	0.00
PHYLLODOCE MACULATA	1.67	2.89	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	70.00	31.22	0.45	0.06	0.03	0.51
SPHAEROSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	1.67	2.89	1.73	0.01	0.02	1.73
NEREIS VEXILLOSA	3.33	5.77	1.73	0.63	1.09	1.73
HEMIPODUS BOREALIS	8.33	2.89	0.35	0.15	0.13	0.89
ONUPHIS SP.	396.67	297.76	0.75	3.04	1.26	0.41
LUMBRINERIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
DORVILLEA SP.	3.33	5.77	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACIL	406.67	108.90	0.27	0.11	0.03	0.27
MALACOCEROS GLUTAEUS	1.67	2.89	1.73	0.00	0.00	0.00
CIRRATULIDAE	15.00	10.00	0.67	0.00	0.00	0.00
CIRRATULUS CIRRATUS	1.67	2.89	1.73	0.00	0.00	0.00
CAPITELLIDAE	1.67	2.89	1.73	0.03	0.05	1.73
NOTOMASTUS SP.	3.33	5.77	1.73	0.06	0.11	1.73
THELEPUS CRISPUS	3.33	5.77	1.73	0.03	0.05	1.73
PROTODRILUS FLABELLIG	3.33	5.77	1.73	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	10.00	5.00	0.50	0.00	0.00	0.00
OLIGOCHAETA	258.33	231.53	0.90	0.04	0.05	1.04
ACMAEIDAE JUV. <4MM	93.33	136.50	1.46	1.51	1.80	1.19
COLLISELLA DIGITALIS	33.33	57.74	1.73	3.58	6.21	1.73
NOTOACMEA PERSONA	91.67	93.85	1.15	6.23	6.71	1.08
LITTORINA SITKANA	1110.00	1327.77	1.20	89.96	85.61	0.95
LITTORINA SCUTULATA	815.00	1055.07	1.29	45.71	54.81	1.20
NUCELLA EMARGINATA	1.67	2.89	1.73	3.70	6.40	1.73
GLYCYMERIS SUBOBSOLET	3.33	5.77	1.73	0.00	0.00	0.00
CHTHAMALUS DALLI	1286.67	1926.93	1.50	21.78	36.86	1.69
BALANUS GLANDULA	828.33	715.29	0.86	16.13	13.47	0.84
SPHAEROMATIDA	3.33	5.77	1.73	0.00	0.00	0.00
GNORIMOSPHAEROMA OREG	26.67	24.66	0.92	0.21	0.12	0.56
EXOSPHAEROMA SP.	33.33	57.74	1.73	0.08	0.14	1.73
EXOSPHAEROMA AMPLICAU	70.00	99.62	1.42	0.08	0.14	1.73
AMPHIPODA GAMMARIDEA	1.67	2.89	1.73	0.00	0.00	0.00
PARAMOERA MOHRI	98.33	116.23	1.32	0.06	0.07	1.20
PONTOGENEIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
ORCHESTIA SP.	8.33	14.43	1.73	0.00	0.00	0.00
PAGURUS HIRSUTIUSCULU	1.67	2.89	1.73	0.05	0.09	1.73
HEMIGRAPSUS NUDUS	56.67	45.09	0.80	98.29	157.41	1.60
SIPUNCULA	6.67	5.77	0.87	0.03	0.02	0.87

NSPEC	SDI	TMEANC	TMEANW
47.00	3.02	5963.30	300.67

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LAMINARIA SACCHARINA	0.00	0.00	0.00	0.42	0.85	2.00
FUCUS DISTICHUS	0.00	0.00	0.00	0.25	0.50	2.00
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	0.06	0.13	2.00
ANTHOPLEURA ELEGANTIS	77.50	132.07	1.70	41.19	70.44	1.71
PLATYHELMINTHES	7.50	9.57	1.28	0.01	0.02	2.00
NEMERTEA	36.25	16.52	0.46	0.04	0.00	0.00
NEMATODA	72.50	74.67	1.03	0.04	0.07	1.47
HARMOTHOE IMBRICATA	1.25	2.50	2.00	0.00	0.00	0.00
PHOLOE MINUTA	1.25	2.50	2.00	0.00	0.00	0.00
HESIONURA COINEAUI DI	10.00	20.00	2.00	0.00	0.00	0.00
CPHIODROMUS PUGETTENS	1.25	2.50	2.00	0.00	0.00	0.00
MICRODORKE DUBIA	5.00	7.07	1.41	0.00	0.00	0.00
TYPOSYLLIS SP.	123.75	80.35	0.65	0.15	0.13	0.86
EXOGONE SP.	5.00	7.07	1.41	0.00	0.00	0.00
SPHAEROSYLLIS SP.	5.00	4.08	0.82	0.00	0.00	0.00
NEREIS SP.	1.25	2.50	2.00	0.00	0.00	0.00
HEMIPODUS BOREALIS	22.50	6.45	0.29	0.81	0.63	0.77
ONUPHIS SP.	408.75	162.91	0.40	2.84	1.49	0.52
LUMBRINERIS SP.	6.25	7.50	1.20	1.03	1.54	1.48
DORVILLEA SP.	7.50	15.00	2.00	0.00	0.00	0.00
PROTODORVILLEA GRACIL	235.00	345.52	1.47	0.08	0.11	1.37
SPIO FILICORNIS	1.25	2.50	2.00	0.01	0.02	2.00
MALACOCEROS GLUTAEUS	1.25	2.50	2.00	0.00	0.00	0.00
CIRRATULIDAE	25.00	8.16	0.33	0.01	0.02	2.00
CIRRATULUS CIRRATUS	16.25	14.36	0.88	1.99	1.40	0.70
NOTOMASTUS SP.	3.75	4.79	1.28	0.11	0.19	1.76
TEREBELLIDAE	22.50	28.72	1.28	0.23	0.27	1.16
THELEPUS CRISPUS	6.25	12.50	2.00	4.63	9.25	2.00
APCHIANNELIDA	6.25	12.50	2.00	0.00	0.00	0.00
SACCOCIRRUS PAPILLOSUS	62.50	30.14	0.48	0.04	0.04	0.87
OLIGOCHAETA	318.75	210.37	0.66	0.07	0.09	1.29
NOTOACMEA SCUTUM	20.00	26.14	1.31	5.30	8.02	1.51
NOTOACMEA PERSONA	31.25	37.50	1.20	8.75	10.45	1.19
LACUNA SP.	1.25	2.50	2.00	0.00	0.00	0.00
LITTORINA SITKANA	116.25	38.16	0.33	27.42	15.76	0.57
LITTORINA SCUTULATA	25.00	22.73	0.91	1.64	1.29	0.78
NUCELLA LAMELLOSA	7.50	15.00	2.00	17.15	34.29	2.00
NUCELLA EMARGINATA	6.25	12.50	2.00	22.50	45.00	2.00
GLYCYMERIS SUBOBSOLET	6.25	4.79	0.77	0.00	0.00	0.00
CHTHAMALUS DALLI	6.25	12.50	2.00	0.00	0.00	0.00
BALANUS CRENATUS	1.25	2.50	2.00	0.02	0.04	2.00
GNORIMOSPHAEROMA OREG	6.25	7.50	1.20	0.11	0.16	1.49
EXOSPHAEROMA AMPLICAU	7.50	9.57	1.28	0.01	0.02	2.00
AMPHIPODA GAMMARIDEA	10.00	13.54	1.35	0.02	0.02	1.15
AMPITHOE SP.	1.25	2.50	2.00	0.00	0.00	0.00
ANAITIDES COLUMBIAE	2.50	5.00	2.00	0.00	0.00	0.00
PARAMOERA MOHRI	32.50	18.48	0.57	0.00	0.00	0.00
PAGURUS HIRSUTIUSCULU	6.25	12.50	2.00	0.19	0.38	2.00
HEMIGRAPSUS NUDUS	40.00	39.37	0.98	74.36	77.73	1.05
SIPUNCULA	6.25	6.29	1.01	0.02	0.02	1.15
LEPTOSYNAPTA CLARKI	17.50	21.79	1.25	0.73	1.06	1.45
ASCIDIACEA	0.00	0.00	0.00	0.91	1.82	2.00

NSPEC	SDI	TMEANC	TMEANW

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
52.00	3.78	1942.50	213.17			

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LAMINARIA SP.	0.00	0.00	0.00	0.08	0.14	1.73
EGREGIA MENZIESII	0.00	0.00	0.00	328.30	568.63	1.73
NEDAGAROHIELLA BAILEY	0.00	0.00	0.00	0.08	0.14	1.73
GIGARTINA SP.	0.00	0.00	0.00	0.16	0.26	1.62
CORALLINA SP.	0.00	0.00	0.00	0.08	0.14	1.73
PRIONITIS SP.	0.00	0.00	0.00	0.52	0.89	1.73
HALYMENIA SCHIZYMENIO	0.00	0.00	0.00	42.81	74.15	1.73
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	0.04	0.08	1.73
POLYSIPHONIA SP.	0.00	0.00	0.00	0.08	0.14	1.73
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	2.17	3.75	1.73
RHODOMELA LARIX	0.00	0.00	0.00	0.94	1.63	1.73
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	4.94	8.55	1.73
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	0.86	1.50	1.73
ANTHOPLEURA ELEGANTIS	66.67	28.87	0.43	116.50	96.35	0.83
NEMERTEA	30.00	26.46	0.88	0.06	0.07	1.20
EMPLECTONEMA GRACILE	1.67	2.89	1.73	0.01	0.02	1.73
NEMATODA	56.67	76.97	1.36	0.01	0.02	1.73
HALOSYDNA BREVISETOSA	8.33	14.43	1.73	10.92	18.91	1.73
HESIONURA COINEAUI DI	3.33	2.89	0.87	0.00	0.00	0.00
MICROPODARKE DUBIA	1.67	2.89	1.73	0.00	0.00	0.00
SYLLIDAE	1.67	2.89	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	88.33	98.78	1.12	0.06	0.07	1.20
EXOGONE SP.	10.00	8.66	0.87	0.00	0.00	0.00
SPHAEROSYLLIS SP.	13.33	23.09	1.73	0.00	0.00	0.00
NEREIS SP.	3.33	2.89	0.87	0.30	0.26	0.89
HEMIPODUS BOREALIS	28.33	31.75	1.12	0.59	0.82	1.40
ONUPHIS SP.	130.00	181.93	1.40	2.49	4.20	1.69
LUMBRINERIS SP.	6.67	2.89	0.43	0.51	0.81	1.58
DORVILLEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACIL	66.67	61.71	0.93	0.01	0.02	1.73
NAINERIS UNCINATA	1.67	2.89	1.73	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	1.67	2.89	1.73	0.00	0.00	0.00
CIRRATULIDAE	50.00	30.41	0.61	0.01	0.02	1.73
CIRRATULUS CIRRATUS	20.00	26.46	1.32	2.31	3.54	1.53
ARMANDIA BREVIS	3.33	5.77	1.73	0.01	0.02	1.73
CAPITELLIDAE	5.00	5.00	1.00	0.03	0.05	1.73
NOTOMASTUS SP.	6.67	11.55	1.73	0.40	0.69	1.73
PRANCHIOMALDANE VICEN	10.00	13.23	1.32	0.03	0.05	1.73
AXIOTHELLA RUBROCINCT	1.67	2.89	1.73	0.00	0.00	0.00
TEREBELLIDAE	1.67	2.89	1.73	0.01	0.02	1.73
THELEPUS CRISPUS	8.33	14.43	1.73	45.42	78.66	1.73
SACCOCIRRUS EROTICUS	68.33	88.08	1.29	0.05	0.08	1.73
OLIGOCHAETA	311.67	200.08	0.64	0.08	0.10	1.31
NOTOACMEA SCUTUM	66.67	28.87	0.43	82.67	23.55	0.28
NOTOACMEA PERSONA	10.00	17.32	1.73	0.60	1.03	1.73
LACUNA SP.	6.67	5.77	0.87	0.03	0.02	0.87
LITTORINA SCUTULATA	1.67	2.89	1.73	0.03	0.05	1.73
NUCELLA LAMELLOSA	1.67	2.89	1.73	3.38	5.85	1.73
SEARLESIA DIRA	1.67	2.89	1.73	0.86	1.50	1.73
GLYCYMERIS SUBOBSOLET	13.33	5.77	0.43	0.04	0.00	0.00
MYSELLA TUMICA	1.67	2.89	1.73	0.00	0.00	0.00
ASTARTE SP.	1.67	2.89	1.73	0.00	0.00	0.00
SAXIDOMUS GIGANTEUS	1.67	2.89	1.73	0.30	0.51	1.73
GNORIMOSPHAEROMA OREG	3.33	5.77	1.73	0.03	0.05	1.73
EXOSPHAEROMA AMPLICAU	5.00	5.00	1.00	0.01	0.02	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
IDOTEA WOSNESENSKII	16.67	28.87	1.73	11.92	20.64	1.73
IANIROPSIS KINCAIDI D	1.67	2.89	1.73	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	3.33	5.77	1.73	0.00	0.00	0.00
PARAMOERA MOHRI	10.00	5.00	0.50	0.00	0.00	0.00
MELITA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PAGURUS HIRSUTIUSCULU	5.00	5.00	1.00	1.85	2.58	1.40
HEMIGRAPSUS NUDUS	83.33	135.77	1.63	498.44	862.21	1.73
HEMIGRAPSUS OREGONENS	33.33	28.87	0.87	315.00	426.62	1.35
SIPUNCULA	13.33	15.28	1.15	0.05	0.08	1.73
EUPENTACTA QUINQUESEM	1.67	2.89	1.73	0.05	0.08	1.73
GOBIESOX MEANDRICUS	8.33	14.43	1.73	5.08	8.80	1.73

NSPEC	SDI	TMEANC	TMEANW
66.00	3.62	1301.66	1481.20

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MONOSTROMA SP.	0.00	0.00	0.00	0.02	0.05	2.00
ULVA SP.	0.00	0.00	0.00	4.67	6.71	1.44
FUCUS DISTICHUS	0.00	0.00	0.00	3.92	4.61	1.17
GIGARTINA SP.	0.00	0.00	0.00	18.34	20.21	1.10
GIGARTINA PAPILLATA	0.00	0.00	0.00	1.04	1.37	1.31
IRIDAEA HETEROCARPA	0.00	0.00	0.00	0.19	0.38	2.00
RHODOGLOSSUM SP.	0.00	0.00	0.00	0.37	0.73	2.00
MICROCLADIA BOREALIS	0.00	0.00	0.00	0.15	0.30	1.96
POLYSIPHONIA SP.	0.00	0.00	0.00	1.75	2.71	1.55
PTEROSIPHONIA SP.	0.00	0.00	0.00	0.34	0.68	2.00
RHODOMELA LARIX	0.00	0.00	0.00	5.94	9.04	1.52
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	2.01	2.81	1.40
LOPHOSIPHONIA REPTABU	0.00	0.00	0.00	0.01	0.02	2.00
ANTHOPLEURA ELEGANTIS	26.25	49.22	1.88	18.28	35.32	1.93
NEMERTEA	75.00	44.16	0.59	4.18	8.11	1.94
NEMATODA	27.50	16.58	0.60	0.00	0.00	0.00
HARMOTHOE IMBRICATA	2.50	2.89	1.15	0.06	0.07	1.21
HESIONURA COINEAUI DI	15.00	16.83	1.12	0.00	0.00	0.00
MICROPODARKE DUBIA	1.25	2.50	2.00	0.00	0.00	0.00
TYPOSYLLIS SP.	82.50	46.99	0.57	0.08	0.06	0.73
EXOGONE SP.	3.75	4.79	1.28	0.00	0.00	0.00
SPHAEROSYLLIS SP.	2.50	2.89	1.15	0.00	0.00	0.00
NEREIS SP.	10.00	13.54	1.35	0.04	0.04	0.87
NEREIS VEXILLOSA	1.25	2.50	2.00	2.33	4.67	2.00
GLYCERA SP.	1.25	2.50	2.00	0.55	1.09	2.00
HEMIPODUS BOREALIS	16.25	6.29	0.39	0.34	0.19	0.55
ONUPHIS SP.	8.75	11.81	1.35	0.07	0.12	1.65
LUMBRINERIS SP.	20.00	16.83	0.84	3.36	3.94	1.17
DORVILLEA SP.	3.75	7.50	2.00	0.00	0.00	0.00
EROTODORVILLEA GRACIL	295.00	272.12	0.92	0.09	0.08	0.84
NAINERIS SP.	1.25	2.50	2.00	0.07	0.14	2.00
MALACOCEROS GLUTAEUS	1.25	2.50	2.00	0.00	0.00	0.00
CIRRATULIDAE	53.75	39.02	0.73	0.01	0.02	2.00
CIRRATULUS CIRRATUS	28.75	15.48	0.54	3.59	2.37	0.66
ARMANDIA BREVIS	5.00	4.08	0.82	0.01	0.02	2.00
CAPITELLIDAE	2.50	5.00	2.00	0.00	0.00	0.00
NOTOMASTUS SP.	3.75	7.50	2.00	0.44	0.88	2.00
MEDIOMASTUS AMBISETA	2.50	5.00	2.00	0.00	0.00	0.00
BRANCHIOMALDANE VICEN	2.50	5.00	2.00	0.00	0.00	0.00
TEREBELLIDAE	1.25	2.50	2.00	0.08	0.17	2.00
THELEPUS CRISPUS	25.00	35.36	1.41	35.31	57.05	1.62
ARCHIANNELIDA	6.25	12.50	2.00	0.00	0.00	0.00
SACCOCIRRUS PROTICUS	117.50	121.42	1.03	0.11	0.16	1.49
OLIGOCHAETA	238.75	113.83	0.48	0.08	0.02	0.32
MARGARITES PUPILLUS	2.50	5.00	2.00	0.01	0.02	2.00
LACUNA SP.	18.75	23.94	1.28	0.13	0.25	2.00
ALVINIA SP.	33.75	35.21	1.04	0.03	0.04	1.31
NATICA CLAUSA	2.50	2.89	1.15	0.00	0.00	0.00
MOPALIA LIGNOSA	1.25	2.50	2.00	0.55	1.09	2.00
GLYCYMERIS SUBOBSOLET	16.25	16.01	0.99	0.02	0.02	1.15
MYSELLA TUMIDA	1.25	2.50	2.00	0.00	0.00	0.00
BALANUS GLANDULA	1.25	2.50	2.00	0.00	0.00	0.00
CNORIMOSPHAEROMA OREG	1.25	2.50	2.00	0.02	0.04	2.00
EXOSPHAEROMA AMPLICAU	12.50	18.48	1.48	0.02	0.04	2.00
IDOTEA SP. JUV.	1.25	2.50	2.00	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
IDOTEA WOSNESENSKII	1.25	2.50	2.00	0.06	0.13	2.00
AMPHIPODA GAMMARIDEA	2.50	5.00	2.00	0.01	0.02	2.00
AMPITHOE SP.	25.00	35.36	1.41	0.19	0.24	1.28
PARAMOERA MOHRI	1.25	2.50	2.00	0.00	0.00	0.00
HYALE SP.	23.75	24.28	1.02	0.00	0.00	0.00
PAGURUS HIRSUTIUSCULU	5.00	5.77	1.15	0.94	1.83	1.94
PUGETTIA GRACILIS	1.25	2.50	2.00	0.08	0.17	2.00
CANCER OREGONENSIS	1.25	2.50	2.00	1.82	3.64	2.00
HEMIGRAPSUS NUDUS	10.00	16.83	1.68	8.73	13.33	1.53
SIPUNCULA	2.50	5.00	2.00	0.00	0.00	0.00
LEPTASTERIAS HEXACTIS	6.25	12.50	2.00	6.56	13.13	2.00
LEPTOSYNAPTA CLARKI	1.25	2.50	2.00	0.03	0.07	2.00

NSPEC	SDI	TMEANC	TMEANW
67.00	3.77	1256.25	127.09

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MONOSTROMA SP.	0.00	0.00	0.00	0.40	0.69	1.73
ULVA SP.	0.00	0.00	0.00	0.32	0.37	1.13
EGREGIA MENZIESII	0.00	0.00	0.00	469.88	713.26	1.52
FUCUS DISTICHUS	0.00	0.00	0.00	0.58	1.00	1.73
PORPHYRA SP.	0.00	0.00	0.00	1.12	1.95	1.73
NEOAGARDHIELLA BAILEY	0.00	0.00	0.00	0.57	0.99	1.73
PLOCAMIUM CARTILAGINE	0.00	0.00	0.00	0.09	0.15	1.73
GIGARTINA SP.	0.00	0.00	0.00	141.57	174.36	1.23
IRIDAEA SP.	0.00	0.00	0.00	2.73	4.73	1.73
RHODOGLOSSUM SP.	0.00	0.00	0.00	244.10	320.50	1.31
CORALLINACEAE	0.00	0.00	0.00	0.72	0.51	0.71
CORALLINA SP.	0.00	0.00	0.00	5.37	6.24	1.16
BOSSIELLA SP.	0.00	0.00	0.00	2.85	2.85	1.00
HALYMENIA SCHIZYMENIO	0.00	0.00	0.00	186.98	152.44	0.82
MICROCLADIA BOREALIS	0.00	0.00	0.00	1.74	1.50	0.86
CRYPTOPLEURA SP.	0.00	0.00	0.00	4.27	4.42	1.04
HYMENENA SP.	0.00	0.00	0.00	2.62	2.51	0.96
LAURENCIA SPECTABILIS	0.00	0.00	0.00	5.42	2.48	0.46
RHODOMELA LARIX	0.00	0.00	0.00	90.57	111.17	1.23
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	163.05	128.05	0.79
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	0.77	0.88	1.14
PORIFERA	0.00	0.00	0.00	30.42	52.68	1.73
ANTHOPLEURA ELEGANTIS	10.00	13.23	1.32	1.80	2.78	1.55
NEMERTEA	60.00	17.32	0.29	0.41	0.55	1.35
EMPLECTONEMA GRACILE	16.67	14.43	0.87	0.08	0.14	1.73
NEMATODA	105.00	42.72	0.41	0.01	0.02	1.73
HALOSYDNA BREVISETOSA	8.33	14.43	1.73	3.25	5.63	1.73
EULALIA SP.	40.00	26.46	0.66	0.03	0.05	1.73
HESIONURA COINEAUI DI	25.00	13.23	0.53	0.00	0.00	0.00
HESIONIDAE	8.33	14.43	1.73	0.00	0.00	0.00
ORTHODROMUS PUGETTENS	3.33	5.77	1.73	0.01	0.02	1.73
SYLLIDAE	1.67	2.89	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	398.33	281.62	0.71	0.91	0.71	0.78
EXOGONE SP.	156.67	140.74	0.90	0.01	0.02	1.73
SPHAEROSYLLIS SP.	46.67	23.63	0.51	0.00	0.00	0.00
ODONTOSYLLIS PARVA	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	26.67	22.55	0.85	0.08	0.14	1.73
PLATYNEREIS BICANALIC	25.00	43.30	1.73	0.67	1.15	1.73
HEMIPODUS BOREALIS	6.67	2.89	0.43	0.14	0.11	0.73
ONUPHIS SP.	3.33	5.77	1.73	0.00	0.00	0.00
LUMBRINERIS SP.	125.00	74.67	0.60	10.98	9.14	0.83
DORVILLEA SP.	6.67	7.64	1.15	0.00	0.00	0.00
PROTODORVILLEA GRACIL	376.67	204.04	0.54	0.11	0.08	0.72
NAINERIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
NAINERIS UNCINATA	1.67	2.89	1.73	0.21	0.37	1.73
SPIONIDAE	1.67	2.89	1.73	0.00	0.00	0.00
SPIO SP.	3.33	5.77	1.73	0.01	0.02	1.73
PYGOSPIO ELEGANS	1.67	2.89	1.73	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	6.67	5.77	0.87	0.01	0.02	1.73
CIRRATULIDAE	151.67	167.73	1.11	0.06	0.07	1.20
CIRRATULUS CIRRATUS	133.33	193.28	1.45	12.09	17.48	1.45
THARYX SP.	8.33	14.43	1.73	0.00	0.00	0.00
ARMANDIA BREVIS	5.00	5.00	1.00	0.01	0.02	1.73
CAPITELLA CAPITATA	28.33	30.14	1.06	0.05	0.08	1.73
MEDIOMASTUS AMBISETA	30.00	51.96	1.73	0.03	0.05	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
BRANCHIOMALDANE VICEN	68.33	84.31	1.23	0.14	0.17	1.24
TEREBELLIDAE	291.67	222.05	0.76	0.88	0.68	0.78
THELEPUS CRISPUS	535.00	535.28	1.00	213.23	195.30	0.92
POTAMILLA SP.	8.33	14.43	1.73	0.00	0.00	0.00
SCHIZOBRANCHIA INSIGN	8.33	14.43	1.73	0.08	0.14	1.73
SACCOCIRRUS PROTICUS	10.00	5.00	0.50	0.00	0.00	0.00
OLIGOCHAETA	571.67	452.14	0.79	0.13	0.13	0.96
CHAETOZONE SP.	50.00	86.60	1.73	0.17	0.29	1.73
MARGARITES PUPILLUS	1.67	2.89	1.73	0.00	0.00	0.00
LACUNA SP.	445.00	227.87	0.51	4.44	2.79	0.63
ALVINIA SP.	583.33	307.91	0.53	1.06	0.45	0.43
NATICA CLAUSA	26.67	2.89	0.11	0.08	0.14	1.73
AMPHISSA COLUMBIANA	8.33	14.43	1.73	0.00	0.00	0.00
MITRELLA TUBEROSA	16.67	28.87	1.73	0.08	0.14	1.73
CHAETOPLEURA GEMMA	3.33	5.77	1.73	0.26	0.46	1.73
MOPALIA LIGNOSA	8.33	14.43	1.73	0.17	0.29	1.73
GLYCYMERIS SUBOBSOLET	18.33	23.63	1.29	0.04	0.05	1.04
MYTILUS EDULIS	1.67	2.89	1.73	0.03	0.05	1.73
MYSELLA TUMIDA	1.67	2.89	1.73	0.00	0.00	0.00
BALANUS GLANDULA	1.67	2.89	1.73	0.11	0.20	1.73
ANATANAIS NORMANI	25.00	43.30	1.73	0.00	0.00	0.00
EXOSPHAEROMA AMPLICAU	6.67	11.55	1.73	0.01	0.02	1.73
IDOTEA SP. JUV.	8.33	14.43	1.73	0.00	0.00	0.00
IDOTEA ACULEATA	16.67	14.43	0.87	0.58	1.01	1.73
IANIROPSIS KINCAIDI	8.33	14.43	1.73	0.00	0.00	0.00
IANIROPSIS KINCAIDI D	3.33	2.89	0.87	0.00	0.00	0.00
AMPITHOE SP.	150.00	217.94	1.45	1.83	1.66	0.91
AOROIDES COLUMBIAE	8.33	14.43	1.73	0.00	0.00	0.00
PARAMOERA 10HRI	16.67	28.87	1.73	0.00	0.00	0.00
HYALE SP.	821.67	834.72	1.02	2.36	2.43	1.03
PARALLORCHESTES SP.	16.67	14.43	0.87	0.42	0.52	1.25
PHOTIS SP.	8.33	14.43	1.73	0.00	0.00	0.00
ISCHYROCERUS ANGUIPES	53.33	20.21	0.38	0.00	0.00	0.00
PARAPLEUSTES NAUTILUS	1.67	2.89	1.73	0.00	0.00	0.00
PAGURUS GRANOSIMANUS	8.33	14.43	1.73	3.42	5.92	1.73
PAGURUS HIRSUTIUSCULU	36.67	38.84	1.06	0.79	0.94	1.18
PUGETTIA GRACILIS	43.33	38.19	0.88	1.26	0.85	0.68
CANCER SP. JUV.	8.33	14.43	1.73	0.67	1.15	1.73
PINNIXA OCCIDENTALIS	1.67	2.89	1.73	0.00	0.00	0.00
HEMIGRAPSUS NUDUS	3.33	5.77	1.73	0.18	0.31	1.73
HEMIGRAPSUS OREGONENS	8.33	14.43	1.73	0.17	0.29	1.73
SIPUNCULA	33.33	29.30	0.88	0.18	0.17	0.96
EVASTERIAS TROSCHELII	8.33	14.43	1.73	0.17	0.29	1.73
LEPTASTERIAS HEXACTIS	5.00	0.00	0.00	3.14	5.03	1.60

NSPEC	SDI	TMEANC	TMEANW
99.00	3.86	5786.61	1623.17

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LAMINARIA GROENLANDIC	0.00	0.00	0.00	25.84	44.76	1.73
LAMINARIA SACCHARINA	0.00	0.00	0.00	3.17	5.50	1.73
ALARIA MARGINATA	0.00	0.00	0.00	13.13	11.58	0.88
PLOCAMIUM VIOLACEUM	0.00	0.00	0.00	8.00	13.86	1.73
GIGARTINA SP.	0.00	0.00	0.00	0.09	0.16	1.73
RHODOGLOSSUM SP.	0.00	0.00	0.00	0.58	1.01	1.73
BOSSIELLA SP.	0.00	0.00	0.00	0.03	0.05	1.73
PRIONITIS SP	0.00	0.00	0.00	0.25	0.43	1.73
HALYMENIA SCHIZYMENIO	0.00	0.00	0.00	16.94	15.47	0.91
CALLOPHYLLIS SP.	0.00	0.00	0.00	0.01	0.01	1.73
CONSTANTINEA SIMPLEX	0.00	0.00	0.00	0.82	1.42	1.73
CRYPTOPLEURA SP.	0.00	0.00	0.00	0.31	0.54	1.73
BOTRYOGLOSSUM FARLOWI	0.00	0.00	0.00	6.96	12.06	1.73
LAURENCIA SPECTABILIS	0.00	0.00	0.00	0.06	0.10	1.73
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	1.81	1.58	0.87
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	139.93	241.86	1.73
NEMERTEA	3.33	5.77	1.73	0.00	0.00	0.00
NEMATODA	25.00	21.79	0.87	0.00	0.00	0.00
PHYLLODOCE GROENLANDI	1.67	2.89	1.73	0.38	0.66	1.73
ETEONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
ETEONE PACIFICA	1.67	2.89	1.73	0.17	0.29	1.73
EULALIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
HESIONURA COINEAUI DI	81.67	59.65	0.73	0.03	0.02	0.87
TYPOSYLLIS SP.	41.67	42.5	1.02	0.06	0.07	1.20
EXOGONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
SPHAEROSYLLIS SP.	6.67	5.77	0.87	0.00	0.00	0.00
NEREIS SP.	1.67	2.89	1.73	0.03	0.05	1.73
HEMIPODUS BOREALIS	1.67	2.89	1.73	0.03	0.05	1.73
ONUPHIS SP.	11.67	7.64	0.65	0.05	0.08	1.73
LUMBRINERIS SP.	5.00	8.66	1.73	0.11	0.20	1.73
PROTODORVILLEA GRACIL	128.33	135.31	1.05	0.03	0.07	0.87
SPIO FILICORNIS	1.67	2.89	.73	0.00	0.00	0.00
CIRRATULUS CIRRATUS	1.67	2.89	1.73	0.01	0.02	1.73
CHAETOZONE SP.	6.67	11.55	1.73	0.03	0.05	1.73
ARMANDIA BREVIS	3.33	5.77	1.73	0.00	0.00	0.00
CAPITELLIDAE	1.67	2.89	1.73	0.00	0.00	0.00
SACCOCIRRUS PROTICUS	81.67	67.14	0.82	0.09	0.10	1.02
POLYGORDIUS SP.	1.67	2.89	1.73	0.01	0.02	1.73
OLIGOCHAETA	405.00	307.45	0.76	0.09	0.10	1.02
ALVINIA SP.	26.67	41.93	1.57	0.04	0.05	1.04
TONICELLA LINEATA	1.67	2.89	1.73	0.03	0.05	1.73
GLYCYMERIS SUBOBSOLET	36.67	15.28	0.42	0.06	0.03	0.51
LEPTOCHELIA SAVIGNYI	3.33	5.77	1.73	0.00	0.00	0.00
EXOSPHAEROMA SP.	6.67	5.77	0.87	0.03	0.05	1.73
MUNNA SP.	1.67	2.89	1.73	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	6.67	7.64	1.15	0.00	0.00	0.00
ADROIDES COLUMBIAE	3.33	5.77	1.73	0.00	0.00	0.00
PONTOGENEIA SP.	8.33	10.41	1.25	0.01	0.02	1.73
PARALLORCHESTES OCHOT	1.67	2.89	1.73	0.05	0.08	1.73
ANONYX NUGAX	3.33	5.77	1.73	0.17	0.29	1.73
PHOXOCEPHALIDAE	1.67	2.89	1.73	0.00	0.00	0.00
PARAPI FUSTES SP.	1.67	2.89	1.73	0.00	0.00	0.00
PAGURUS SP. JUV.	3.33	2.89	0.87	0.01	0.02	1.73
PUGETTIA GRACILIS	1.67	2.89	1.73	0.06	0.11	1.73
CANCER OREGONENSIS	3.33	5.77	1.73	2.61	4.53	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
OPHIUROIDEA	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
56.00	2.88	931.66	222.14

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LAMINARIA GROENLANDIC	0.00	0.00	0.00	150.51	211.86	1.41
LAMINARIA SACCHARINA	0.00	0.00	0.00	23.03	27.44	1.19
PTERYGOPHORA CALIFORN	0.00	0.00	0.00	115.62	171.02	1.48
OPUNTIELLA CALIFORNIC	0.00	0.00	0.00	0.69	1.20	1.73
PLOCAMIUM COCCINEUM	0.00	0.00	0.00	0.26	0.44	1.73
PLOCAMIUM VIOLACEUM	0.00	0.00	0.00	0.00	0.01	1.73
CALLOPHYLLIS SP.	0.00	0.00	0.00	1.44	2.50	1.73
HOLLENBERGIA SP.	0.00	0.00	0.00	0.00	0.00	0.00
CRYPTOPLEURA SP.	0.00	0.00	0.00	0.04	0.06	1.73
DELESSERIA ORCIPENS	0.00	0.00	0.00	0.33	0.42	1.28
BOTRYOGLOSSUM FARLOWI	0.00	0.00	0.00	20.76	17.57	0.85
PTEROSIPHONIA SP.	0.00	0.00	0.00	0.00	0.00	0.00
LAURENCIA SPECTABILIS	0.00	0.00	0.00	1.92	3.33	1.73
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	14.78	12.81	0.87
LOPHOSIPHONIA LILLUM	0.00	0.00	0.00	0.00	0.00	0.00
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	107.47	186.14	1.73
PLATYHELMINTHES	5.00	8.66	1.73	0.01	0.02	1.73
NEMERTEA	6.67	2.89	0.43	0.26	0.42	1.60
EMPLECTONEMA GRACILE	3.33	2.89	0.87	0.00	0.00	0.00
NEMATODA	50.00	32.79	0.66	0.03	0.02	0.87
HARMOTHOE IMBRICATA	1.67	2.89	1.73	0.00	0.00	0.00
PALEONOTUS BELLIS	1.67	2.89	1.73	0.00	0.00	0.00
HESIONURA COINEAUI DI	3.33	2.89	0.87	0.00	0.00	0.00
EPHIODROMUS PUGETTENS	1.67	2.89	1.73	0.00	0.00	0.00
MICROPODARKE DUBIA	26.67	16.07	0.60	0.06	0.03	0.51
TYPOSYLLIS SP.	101.67	46.46	0.46	0.14	0.09	0.62
EXOGONE SP.	23.33	32.15	1.38	0.00	0.00	0.00
SPHAEROSYLLIS SP.	30.00	18.03	0.60	0.01	0.02	1.73
NEREIS SP.	1.67	2.89	1.73	0.01	0.02	1.73
PLATYNEREIS BICANALIC	20.00	20.00	1.00	0.85	1.22	1.45
GLYCERA SP.	1.67	2.89	1.73	0.36	0.63	1.73
HEMIPODUS BOREALIS	1.67	2.89	1.73	0.03	0.05	1.73
GLYCINDE PICTA	8.33	10.41	1.25	0.04	0.05	1.04
ONUPHIS SP.	266.67	90.74	0.34	1.24	0.84	0.68
LUMBRINERIS SP.	23.33	7.64	0.33	0.73	0.20	0.28
DORVILLEA SP.	3.33	2.89	0.87	0.01	0.02	1.73
PROTODORVILLEA GRACIL	8.33	10.41	1.25	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	3.33	5.77	1.73	0.01	0.02	1.73
SPIO FILICORNIS	23.33	20.21	0.87	0.12	0.14	1.17
MALACOCEROS GLUTAEUS	5.00	8.66	1.73	0.00	0.00	0.00
CIRRATULUS CIRRATUS	8.33	10.41	1.25	0.36	0.47	1.30
CHAETOZONE SP.	8.33	5.77	0.69	0.05	0.08	1.73
ARMANDIA BREVIS	56.67	59.65	1.05	0.11	0.12	1.10
CAPITELLA CAPITATA	11.67	16.07	1.38	0.01	0.02	1.73
NOTOMASTUS TENUIS	6.67	11.55	1.73	0.08	0.14	1.73
MEDIOMASTUS ANBISETA	10.00	13.23	1.32	0.03	0.05	1.73
MALDANIDAE	1.67	2.89	1.73	0.00	0.00	0.00
AXIOTHELLA RUBROCINCT	3.33	5.77	1.73	0.10	0.17	1.73
TEREBELLIDAE	50.00	20.00	0.40	0.23	0.13	0.56
PISTA SP.	10.00	10.00	1.00	0.18	0.17	0.96
PROTODRILUS FLABELLIG	10.00	13.23	1.32	0.00	0.00	0.00
OLIGOCHAETA	216.67	154.95	0.72	0.07	0.03	0.39
CALLIOSTOMA LIGATUM	1.67	2.89	1.73	0.18	0.31	1.73
MARGARITES PUPILLUS	6.67	11.55	1.73	0.06	0.11	1.73
LACUNA SP.	10.00	17.32	1.73	0.08	0.14	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ALVINIA SP.	45.00	44.44	0.99	0.08	0.10	1.31
AMPHISSA COLUMBIANA	1.67	2.89	1.73	0.05	0.08	1.73
GLYCYMERIS SUBOBSOLET	38.33	18.93	0.49	0.11	0.08	0.72
ASTARTE ALASKENSIS	1.67	2.89	1.73	0.00	0.00	0.00
MACOMA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTOTHACA STAMINEA	1.67	2.89	1.73	1.85	3.20	1.73
EXOSPHAEROMA SP.	1.67	2.89	1.73	0.01	0.02	1.73
IDOTEA ACULEATA	1.67	2.89	1.73	0.13	0.23	1.73
AMPHIPODA GAMMARIDEA	13.33	10.41	0.78	0.03	0.02	0.87
HEMIGRAPSUS NUDUS	3.33	5.77	1.73	0.90	1.55	1.73
ATYLUS SP.	1.67	2.89	1.73	0.03	0.05	1.73
PONTOGENEIA SP.	3.33	2.89	0.87	0.00	0.00	0.00
CERADOCUS SP.	1.67	2.89	1.73	0.01	0.02	1.73
MELITA SP.	1.67	2.89	1.73	0.00	0.00	0.00
ORCHOMENE CF. PINGUIS	1.67	2.89	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	8.33	10.41	1.25	0.01	0.02	1.73
PARAPLEUSTES SP.	3.33	2.89	0.87	0.00	0.00	0.00
PLEUSIRUS SECORRUS	3.33	2.89	0.87	0.00	0.00	0.00
PAGURUS SP. JUV.	1.67	2.89	1.73	0.01	0.02	1.73
PETROLISTHES ERIOMERU	6.67	11.55	1.73	0.55	0.95	1.73
PUGETTIA GRACILIS	6.67	11.55	1.73	1.50	2.60	1.73
CANCER OREGONENSIS	13.33	7.64	0.57	2.09	2.59	1.24
SIPUNCULA	31.67	22.09	0.73	0.31	0.39	1.24
ECTOPROCTA	0.00	0.00	0.00	0.23	0.40	1.73
LEPTOSYNAPTA CLARKI	1.67	2.89	1.73	0.06	0.11	1.73

NSPEC	SDI	TMEANC	TMEANW
80.00	3.86	1229.99	450.27

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
SARCODIOTHECA FURCATA	0.00	0.00	0.00	0.02	0.03	1.73
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	0.43	0.19	0.43
AHNFELTIA GIGARTINOID	0.00	0.00	0.00	0.45	0.77	1.73
STENOGRAMME INTERRUPT	0.00	0.00	0.00	0.34	0.16	0.47
RHODOGLOSSUM SP.	0.00	0.00	0.00	0.60	1.03	1.73
CALLOPHYLLIS SP.	0.00	0.00	0.00	0.00	0.01	1.73
RHODYMENIA SP.	0.00	0.00	0.00	0.00	0.01	1.73
HOLLENBERGIA SP.	0.00	0.00	0.00	0.00	0.00	0.00
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.09	0.11	1.20
PTEROSIPHONIA SP.	0.00	0.00	0.00	0.03	0.05	1.73
ODONTHALIA WASHINGTON	0.00	0.00	0.00	0.02	0.04	1.73
NEMERTEA	8.33	2.89	0.35	0.09	0.10	1.02
NEMATODA	65.00	43.59	0.67	0.06	0.07	1.20
HARMOTHOE IMBRICATA	1.67	2.89	1.73	0.01	0.02	1.73
PHOLOE MINUTA	1.67	2.89	1.73	0.01	0.02	1.73
HESIONURA COINEAUI OI	10.00	5.00	0.50	0.00	0.00	0.00
MICROPODARKE DUBIA	65.00	35.00	0.54	0.09	0.05	0.56
TYPOSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
EXOGONE SP.	8.33	7.64	0.92	0.00	0.00	0.00
SPHAEROSYLLIS SP.	11.67	5.77	0.49	0.00	0.00	0.00
PLATYNEREIS BICANALIC	1.67	2.89	1.73	0.00	0.00	0.00
NEPHTYS LONGOSETOSA	1.67	2.89	1.73	0.17	0.29	1.73
HEMIPODUS BOREALIS	33.33	16.07	0.48	0.66	0.75	1.14
ONUPHIS SP.	26.67	22.55	0.85	0.09	0.08	0.87
PROTODORVILLEA GRACIL	10.00	13.23	1.32	0.00	0.00	0.00
SPIO SP.	1.67	2.89	1.73	0.01	0.02	1.73
SPIO FILICORNIS	13.33	12.58	0.94	0.03	0.02	0.87
AONIDES SP.	6.67	7.64	1.15	0.01	0.02	1.73
CHAETOZONE SP.	15.00	8.66	0.58	0.03	0.02	0.87
SCALIBREGMA INFLATUM	3.33	2.89	0.87	0.06	0.11	1.73
ARMANDIA BREVIS	1.67	2.89	1.73	0.00	0.00	0.00
CAPITELLA CAPITATA	5.00	8.66	1.73	0.01	0.02	1.73
NOTOMASTUS GIGANTEUS	1.67	2.89	1.73	0.06	0.11	1.73
NOTOMASTUS TENUIS	1.67	2.89	1.73	0.06	0.11	1.73
MEDIOMASTUS ANBISETA	11.67	7.64	0.65	0.04	0.05	1.04
MALDANIDAE	8.33	2.89	0.35	0.01	0.02	1.73
NICOMACHE PERSONATA	16.67	16.07	0.96	0.19	0.22	1.15
AXIOTHELLA RUBROCINCT	1.67	2.89	1.73	0.00	0.00	0.00
TEREBELLIDAE	40.00	21.79	0.54	0.39	0.20	0.51
CHONE SP.	3.33	5.77	1.73	0.01	0.02	1.73
SACCOCIRRUS EROTICUS	5.00	5.00	1.00	0.00	0.00	0.00
POLYGORDIUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
OLIGOCHAETA	73.33	40.41	0.55	0.03	0.02	0.87
MARGARITES PUPILLUS	5.00	8.66	1.73	0.01	0.02	1.73
MARGARITES LIRULATUS	63.33	46.19	0.73	0.54	0.44	0.81
ALVINIA SP.	23.33	15.28	0.65	0.06	0.03	0.51
NATICA CLAUSA	1.67	2.89	1.73	0.05	0.08	1.73
FUSITRITON OREGONENSI	1.67	2.89	1.73	0.01	0.02	1.73
AMPHISSA COLUMBIANA	1.67	2.89	1.73	0.03	0.05	1.73
GLYCYMERIS SUBOBSOLET	346.67	278.85	0.80	1.56	1.33	0.86
MODIOLUS RECTUS	1.67	2.89	1.73	0.03	0.05	1.73
MYSELLA TUMIDA	40.00	31.22	0.78	0.04	0.05	1.04
CYCLOCARDIA SP.	3.33	5.77	1.73	0.93	1.61	1.73
ASTARTE COMPACTA	1.67	2.89	1.73	0.36	0.63	1.73
MACOMA SP.	3.33	2.89	0.87	0.04	0.05	1.04

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
SAXIDOMUS GIGANTEUS	1.67	2.89	1.73	1.18	2.04	1.73
PSEPHIDIA LORDI	106.67	44.81	0.42	0.62	0.43	0.68
HUMILARIA KENNERLYI	1.67	2.89	1.73	200.46	347.21	1.73
PROTOTHACA STAMINEA	1.67	2.89	1.73	0.01	0.02	1.73
TANAIDACEA SP. A	1.67	2.89	1.73	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	10.00	13.23	1.32	0.00	0.00	0.00
EXOSPHAEROMA SP.	11.67	10.41	0.89	0.04	0.05	1.04
ISCHYROCERUS ANGUIPES	1.67	2.89	1.73	0.00	0.00	0.00
ANONYX NUGAX	1.67	2.89	1.73	0.55	0.95	1.73
CANCER OREGONENSIS	6.67	2.89	0.43	0.62	0.45	0.72
EUPENTACTA QUINQUESEM	1.67	2.89	1.73	13.68	23.69	1.73
LEPTOSYNAPTA CLARKI	25.00	17.32	0.69	0.53	0.63	1.19
ENTEROPNEUSTA	3.33	5.77	1.73	0.00	0.00	0.00
SAGITTA ELEGANS	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
69.00	3.68	1128.33	225.51

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LAMINARIA GROENLANDIC	0.00	0.00	0.00	2.75	4.76	1.73
LAMINARIA SACCHARINA	0.00	0.00	0.00	8.45	13.93	1.65
SARCODIOTHECA FURCATA	0.00	0.00	0.00	0.04	0.04	0.93
PLOCAMIUM VIOLACEUM	0.00	0.00	0.00	0.60	1.04	1.73
GRACILARIA SP.	0.00	0.00	0.00	0.02	0.04	1.73
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	0.03	0.05	1.73
GYMNOGONGRUS SP.	0.00	0.00	0.00	0.01	0.02	1.73
IRIDAEA SP.	0.00	0.00	0.00	1.09	1.88	1.72
RHODOGLOSSUM SP.	0.00	0.00	0.00	0.93	1.59	1.70
CERAMIUM STRICTUM	0.00	0.00	0.00	0.00	0.00	0.00
ANTITHAMNIONELLA SP.	0.00	0.00	0.00	0.00	0.00	0.00
HOLLENBERGIA SP.	0.00	0.00	0.00	0.01	0.01	1.73
MEMBRANOPTERA MULTIRA	0.00	0.00	0.00	0.01	0.01	1.73
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.21	0.34	1.61
ODONTHALIA WASHINGTON	0.00	0.00	0.00	0.86	1.49	1.73
NEMERTEA	5.00	5.00	1.00	0.00	0.00	0.00
NEMATODA	10.00	8.66	0.87	0.00	0.00	0.00
ETEONE SP.	1.67	2.89	1.73	0.01	0.02	1.73
HESIONURA COINEAUI DI	8.33	7.64	0.92	0.00	0.00	0.00
MICROPODARKE DUBIA	36.67	42.52	1.16	0.03	0.05	1.73
TYPOSYLLIS SP.	5.00	8.66	1.73	0.01	0.02	1.73
EXOGONE SP.	6.67	7.64	1.15	0.00	0.00	0.00
SPHAEROSYLLIS SP.	6.67	7.64	1.15	0.00	0.00	0.00
HEMIPODUS BOREALIS	6.67	7.64	1.15	0.28	0.41	1.46
PROTODORVILLEA GRACIL	1.67	2.89	1.73	0.00	0.00	0.00
SCOLOPLOS PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
SPIO SP.	3.33	2.89	0.87	0.01	0.02	1.73
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.00	0.00	0.00
AONIDES SP.	3.33	5.77	1.73	0.01	0.02	1.73
CHAETOZONE SP.	13.33	11.55	0.87	0.06	0.05	0.87
ACROCIRRUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
SCALIBREGMA INFLATUM	1.67	2.89	1.73	0.01	0.02	1.73
MALDANIDAE	10.00	17.32	1.73	0.03	0.05	1.73
NICOMACHE PERSONATA	1.67	2.89	1.73	0.05	0.08	1.73
AMPHARETE SP.	1.67	2.89	1.73	0.03	0.05	1.73
TEREBELLIDAE	6.67	5.77	0.87	0.06	0.05	0.87
CHONE SP.	10.00	10.00	1.00	0.01	0.02	1.73
PROTODRILUS FLABELLIG	3.33	2.89	0.87	0.00	0.00	0.00
POLYGORDIUS SP.	11.67	10.41	0.89	0.04	0.05	1.04
OLIGOCHAETA	30.00	25.00	0.83	0.00	0.00	0.00
MARGARITES PUPILLUS	3.33	2.89	0.87	0.01	0.02	1.73
MARGARITES LIRULATUS	11.67	7.64	0.65	0.31	0.24	0.77
LACUNA SP.	3.33	5.77	1.73	0.01	0.02	1.73
CALYPTRAEA FASTIGIATA	13.33	10.41	0.78	0.41	0.30	0.73
NATICA CLAUSA	1.67	2.89	1.73	0.05	0.08	1.73
AMPHISSA COLUMBIANA	1.67	2.89	1.73	0.00	0.00	0.00
HANLEYA HANLEYI	6.67	7.64	1.15	0.06	0.07	1.20
ISCHNOCHITON RETIPORC	5.00	5.00	1.00	0.83	0.72	0.87
GLYCYMERIS SUBOBSOLET	281.67	130.80	0.46	0.74	0.44	0.59
MODIOLUS RECTUS	1.67	2.89	1.73	0.08	0.14	1.73
CYCLOCARDIA SP.	11.67	5.77	0.49	0.17	0.23	1.33
ASTARTE ALASKENSIS	3.33	5.77	1.73	0.05	0.08	1.73
TELLINA SP.	1.67	2.89	1.73	0.03	0.05	1.73
PSEPHIDIA LORDI	15.00	10.00	0.67	0.09	0.05	0.56
BALANUS GLANDULA	15.00	25.98	1.73	0.55	0.95	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
EXOSPHAEROMA SP.	1.67	2.89	1.73	0.00	0.00	0.00
AMPITHOE SP.	1.67	2.89	1.73	0.00	0.00	0.00
ADROIDES COLUMBIAE	1.67	2.89	1.73	0.00	0.00	0.00
PARAMOERA MOHRI	1.67	2.89	1.73	0.00	0.00	0.00
MELITA SP.	3.33	5.77	1.73	0.00	0.00	0.00
PUGETTIA GRACILIS	1.67	2.89	1.73	0.03	0.05	1.73
CANCER OREGONENSIS	8.33	10.41	1.25	0.43	0.45	1.05
ECTOPROCTA	0.00	0.00	0.00	0.01	0.02	1.73
OPHIUROIDEA	1.67	2.89	1.73	0.06	0.11	1.73
EUPENTACTA QUINQUESEM	1.67	2.89	1.73	0.06	0.11	1.73
LEPTOSYNAPTA CLARKI	5.00	5.00	1.00	0.16	0.15	0.92
SAGITTA ELEGANS	11.67	12.58	1.08	0.04	0.05	1.04

NSPEC	SDI	TMEANC	TMEANW
67.00	3.34	606.66	19.87

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PLOCAMIUM COCCINEUM	0.00	0.00	0.00	1.13	1.75	1.54
GRACILARIA SP.	0.00	0.00	0.00	0.00	0.00	0.00
STENOGRAMME INTERRUPT	0.00	0.00	0.00	1.99	3.32	1.67
GYMNOGONGRUS SP.	0.00	0.00	0.00	8.39	14.13	1.68
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	3.93	3.58	0.91
WEEKSIA DIGITATA	0.00	0.00	0.00	0.33	0.58	1.73
RHODYMENIA SP.	0.00	0.00	0.00	2.00	3.46	1.73
HALOSACCION GLANDIFOR	0.00	0.00	0.00	0.04	0.07	1.73
FAUCHEA SP.	0.00	0.00	0.00	0.82	1.41	1.73
NIENBURGIA ANDERSONIA	0.00	0.00	0.00	1.28	1.99	1.56
CRYPTOPLEURA SP.	0.00	0.00	0.00	0.02	0.03	1.73
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.17	0.27	1.63
PTEROSIPHONIA SP.	0.00	0.00	0.00	0.07	0.12	1.73
ZOSTERA MARINA	0.00	0.00	0.00	0.00	0.01	1.73
NEMERTEA	15.00	0.00	0.00	0.17	0.23	1.33
NEMATODA	6.67	5.77	0.87	0.00	0.00	0.00
HARMOTHOE IMBRICATA	5.00	5.00	1.00	0.03	0.05	1.73
PHOLOE MINUTA	1.67	2.89	1.73	0.01	0.02	1.73
ETEONE SP.	3.33	2.89	0.87	0.00	0.00	0.00
HESIONURA COINEAUI DI	5.00	5.00	1.00	0.00	0.00	0.00
MICRODORKE DUBIA	20.00	15.00	0.75	0.01	0.02	1.73
PIONOSYLLIS UNAGA	6.67	7.64	1.15	0.00	0.00	0.00
TYPOSYLLIS SP.	10.00	0.00	0.00	0.00	0.00	0.00
SPHAEROSYLLIS SP.	5.00	0.00	0.00	0.00	0.00	0.00
PLATYNEREIS BICANALIC	3.33	2.89	0.87	0.06	0.05	0.87
SPHAERODORUM PAPILLIF	1.67	2.89	1.73	0.00	0.00	0.00
GLYCERA SP.	1.67	2.89	1.73	0.01	0.02	1.73
HEMIPODUS BOREALIS	25.00	0.00	0.00	0.11	0.08	0.72
ONUPHIS SP.	5.00	5.00	1.00	0.20	0.34	1.73
LUMBRINERIS SP.	1.67	2.89	1.73	0.05	0.08	1.73
DORVILLEA SP.	1.67	2.89	1.73	0.01	0.02	1.73
PROTODORVILLEA GRACIL	10.00	13.23	1.32	0.00	0.00	0.00
ARICIDEA LOPEZI	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	13.33	7.64	0.57	0.10	0.13	1.39
SPIO SP.	18.33	17.56	0.96	0.08	0.07	0.93
SPIOPHANES BOMBYX	5.00	0.00	0.00	0.00	0.00	0.00
AONIDES SP.	5.00	5.00	1.00	0.00	0.00	0.00
CHAETOZONE SP.	10.00	0.00	0.00	0.07	0.03	0.39
ACROCIRRUS SP.	6.67	11.55	1.73	0.00	0.00	0.00
SCALIBREGMA INFLATUM	6.67	2.89	0.43	0.03	0.02	0.87
ARMANDIA BREVIS	1.67	2.89	1.73	0.00	0.00	0.00
NOTOMASTUS GIGANTEUS	3.33	2.89	0.87	0.06	0.05	0.87
MEDICMASTUS ANBISETA	48.33	32.15	0.67	0.06	0.05	0.87
MALDANIDAE	8.33	2.89	0.35	0.01	0.02	1.73
NICOMACHE PERSONATA	5.00	8.66	1.73	0.21	0.37	1.73
NOTOPROCTUS PACIFICUS	1.67	2.89	1.73	0.03	0.05	1.73
OWENIA FUSIFORMIS	3.33	5.77	1.73	0.03	0.05	1.73
AMPHARETE SP.	1.67	2.89	1.73	0.01	0.02	1.73
MELINNEXIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
TEREBELLIDAE	11.67	10.41	0.89	0.04	0.05	1.04
SABELLIDAE	1.67	2.89	1.73	0.15	0.25	1.73
CHONE SP.	66.67	76.87	1.15	0.10	0.13	1.39
PSEUDOPOTAMILLA OCELL	1.67	2.89	1.73	0.00	0.00	0.00
POLYGORDIUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
CLIGOCHAETA	16.67	7.64	0.46	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PUNCTURELLA CUCULLATA	1.67	2.89	1.73	1.38	2.39	1.73
ACMAEIDAE JUV. <4MM	1.67	2.89	1.73	0.00	0.00	0.00
MARGARITES PUPILLUS	1.67	2.89	1.73	0.06	0.11	1.73
MARGARITES LIRULATUS	3.33	2.89	0.87	0.04	0.05	1.04
ALVINIA SP.	8.33	5.77	0.69	0.01	0.02	1.73
CALYPTRAEA FASTIGIATA	20.00	15.00	0.75	1.77	1.61	0.91
AMPHISSA COLUMBIANA	5.00	8.66	1.73	0.30	0.51	1.73
HANLEYA HANLEYI	6.67	11.55	1.73	0.05	0.08	1.73
ISCHNOCHITON RETIPORO	8.33	10.41	1.25	0.19	0.17	0.87
TONICELLA LINEATA	1.67	2.89	1.73	0.01	0.02	1.73
GLYCYMERIS SUBORSOLET	50.00	78.10	1.56	0.11	0.16	1.43
MUSCULUS SP.	3.33	2.89	0.87	0.00	0.00	0.00
CYCLOCARDIA SP.	48.33	75.06	1.55	1.16	1.81	1.56
MIODONTISCUS PROLONGA	23.33	40.41	1.73	0.92	1.59	1.73
ASTARTE ALASKENSIS	18.33	17.56	0.96	3.04	2.65	0.87
ASTARTE COMPACTA	18.33	17.56	0.96	8.80	8.26	0.94
CLINOCARDIUM CILIATUM	1.67	2.89	1.73	3.08	5.34	1.73
NEMOCARDIUM CENTIFOLI	1.67	2.89	1.73	0.01	0.02	1.73
MACOMA SP.	1.67	2.89	1.73	0.01	0.02	1.73
TELLINA SP.	1.67	2.89	1.73	0.26	0.46	1.73
MYA ARENARIA	3.33	5.77	1.73	12.75	22.08	1.73
BALANUS GLANDULA	18.33	31.75	1.73	33.70	58.36	1.73
NEBALIA PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
TANAIDACEA SP. A	3.33	5.77	1.73	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	110.00	92.60	0.84	0.01	0.02	1.73
AORIDES COLUMBIAE	5.00	0.00	0.00	0.00	0.00	0.00
COROPHIUM SP.	61.67	63.71	1.03	0.01	0.02	1.73
MELITA SP.	18.33	7.64	0.42	0.03	0.02	0.87
ISAEIDAE	6.67	5.77	0.87	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	1.67	2.89	1.73	0.00	0.00	0.00
HEPTACARPUS BREVIROST	1.67	2.89	1.73	0.03	0.05	1.73
PUGETTIA GRACILIS	5.00	8.66	1.73	0.11	0.20	1.73
CANCER OREGONENSIS	11.67	7.64	0.65	11.10	18.75	1.69
SIPUNCULA	3.33	5.77	1.73	0.15	0.25	1.73
OPHIUROIDEA	18.33	27.54	1.50	0.41	0.68	1.65
EUPENTACTA QUINQUESEM	1.67	2.89	1.73	9.58	16.60	1.73
LEPTOSYNAPTA CLARKI	3.33	2.89	0.87	0.08	0.07	0.93

NSPEC	SDI	TMEANC	TMEANW
92.00	4.27	971.66	111.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
RHODOPHYTA DETRITUS	0.00	0.00	0.00	0.16	0.34	2.10
ZOSTERA DETRITUS	0.00	0.00	0.00	0.00	0.00	2.24
NEMERTEA	25.00	25.25	1.01	0.00	0.00	0.00
NEMATODA	1.00	2.24	2.24	0.00	0.00	0.00
POLYDORA SP.	1.00	2.24	2.24	0.00	0.00	0.00
OLIGOCHAETA	15.00	16.20	1.08	0.00	0.00	0.00
LACUNA VARIEGATA	1.00	2.24	2.24	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	1.00	2.24	2.24	0.00	0.00	0.00
HYALE PLUMULOSA	1.00	2.24	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
9.00	2.19	45.00	0.16

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
RHODOPHYTA DETRITUS	0.00	0.00	0.00	0.04	0.04	1.16
SYLLIDAE	1.00	2.24	2.24	0.00	0.00	0.00
OLIGOCHAETA	9.00	10.25	1.14	0.00	0.00	0.00
LACUNA VARIEGATA	1.00	2.24	2.24	0.00	0.00	0.00
PARAMOERA MOHRI	2.00	2.74	1.37	0.00	0.00	0.00
HEMIGRAPSUS SP.	1.00	2.24	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
6.00	1.85	14.00	0.04

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
RHODOPHYTA DETRITUS	0.00	0.00	0.00	0.02	0.02	1.14
ZOSTERA DETRITUS	0.00	0.00	0.00	0.00	0.00	0.00
NEMERTEA	13.00	10.95	0.84	0.00	0.00	0.00
EXOGONE VERRUGERA	1.00	2.24	2.24	0.00	0.00	0.00
PROTODORVILLEA GRACIL	1.00	2.24	2.24	0.00	0.00	0.00
CAPITELLA CAPITATA	1.00	2.24	2.24	0.00	0.00	0.00
SABELLIDAE	2.00	4.47	2.24	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	1.00	2.24	2.24	0.00	0.00	0.00
OLIGOCHAETA	2.00	4.47	2.24	0.00	0.00	0.00
ISOPODA FLABELLIFERA	2.00	2.74	1.37	0.01	0.02	2.24
PARAMOERA MOHRI	262.00	577.48	2.20	0.76	1.69	2.24
LEPTOSYNAPTA CLARKI	1.00	2.24	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
12.00	0.55	286.00	0.78

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
FILAMENTOUS DIATOMS	0.00	0.00	0.00	2.09	3.57	1.71
ENTEROMORPHA LINZA	0.00	0.00	0.00	0.00	0.00	0.00
PHAEOPHYCEAE	0.00	0.00	0.00	0.00	0.00	0.00
RHYNCHOCOELA	8.33	7.64	0.92	0.01	0.02	1.73
HEMIPODUS BOREALIS	5.00	5.00	1.00	0.10	0.13	1.39
LUMBRINERIS ZONATA	1.67	2.89	1.73	0.05	0.08	1.73
CIRRATULUS CIRRATUS	1.67	2.89	1.73	0.01	0.02	1.73
CAULLERIELLA GRACILIS	3.33	2.89	0.87	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	188.33	112.51	0.60	1.37	0.52	0.38
GNORIMOSPHAEROMA OREG	8.33	14.43	1.73	0.25	0.43	1.73
EXOSPHAEROMA AMPLICAU	5.00	5.00	1.00	0.03	0.02	0.87
AMPHIPODA GAMMARIDEA	1.67	2.89	1.73	0.01	0.02	1.73
PARAMOERA MOHRI	13.33	18.93	1.42	0.06	0.11	1.73
PONTOGENEIA SP.	10.00	10.00	1.00	0.03	0.05	1.73
PONTOGENEIA ROSTRATA	3.33	5.77	1.73	0.01	0.02	1.73
AMPHIPODA GAMMARIDAE	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
16.00	1.96	251.67	4.03

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MONOSTROMA FUSCUM	0.00	0.00	0.00	0.12	0.21	1.73
ZOSTERA MARINA	0.00	0.00	0.00	61.59	40.13	0.65
ANTHOPLEURA ELEGANTIS	1.67	2.89	1.73	0.08	0.14	1.73
RHYNCHOCOELA	6.67	7.64	1.15	0.11	0.16	1.43
CEREBRATULUS CALIFORN	20.00	22.91	1.15	0.14	0.18	1.23
HALOSYDNA BREVISETOSA	3.33	5.77	1.73	0.03	0.05	1.73
TYPOSYLLIS ARMARILLIS	1.67	2.89	1.73	0.00	0.00	0.00
TYPOSYLLIS HYALINA	1.67	2.89	1.73	0.00	0.00	0.00
EXOGONE LOUREI	75.00	65.38	0.87	0.03	0.02	0.87
NEREIS PROCERA	26.67	27.54	1.03	2.30	2.52	1.10
NEPHTYS FERRUGINEA	1.67	2.89	1.73	0.10	0.17	1.73
GLYCERA AMERICANA	3.33	2.89	0.87	0.49	0.82	1.66
GLYCINDE PICTA	15.00	13.23	0.88	0.09	0.08	0.87
ONUPHIS IRIDESCENS	1.67	2.89	1.73	0.01	0.02	1.73
PROTODORVILLEA GRACIL	10.00	10.00	1.00	0.00	0.00	0.00
SCOLOPLOS ARMIGER	15.00	8.66	0.58	0.79	0.43	0.55
LAONICE CIRRATA	5.00	0.00	0.00	0.01	0.02	1.73
PRIONOSPIO STEENSTRUP	15.00	25.98	1.73	0.25	0.43	1.73
SPIOPHANES BOMBYX	121.67	57.95	0.48	0.92	0.52	0.57
SPIOPHANES BERKELEYOR	1.67	2.89	1.73	0.11	0.20	1.73
MALACOCEROS GLUTAEUS	16.67	20.82	1.25	0.04	0.05	1.04
CAULLERIELLA GRACILIS	20.00	13.23	0.66	0.01	0.02	1.73
THARYX MULTIFILIS	1.67	2.89	1.73	0.03	0.05	1.73
CHAETOZONE SETOSA	1.67	2.89	1.73	0.05	0.08	1.73
SCALIBREGMA INFLATUM	3.33	5.77	1.73	0.06	0.11	1.73
ARMANDIA BREVIS	1.67	2.89	1.73	0.03	0.05	1.73
TRAVISIA BREVIS	8.33	2.89	0.35	3.24	2.68	0.83
CAPITELLA CAPITATA	1.67	2.89	1.73	0.00	0.00	0.00
NICOMACHE PERSONATA	65.00	83.22	1.28	3.39	5.80	1.71
AXIOTHELLA RUBROCINCT	1.67	2.89	1.73	0.95	1.64	1.73
PRAXILLELLA AFFINIS	55.00	44.44	0.81	1.34	1.74	1.30
OWENIA FUSIFORMIS	60.00	13.23	0.22	1.11	0.52	0.47
ASABELLIDES LINEATA	1.67	2.89	1.73	0.01	0.02	1.73
CLIGOCHAETA	3.33	5.77	1.73	0.00	0.00	0.00
MARGARITES LIPULATUS	5.00	5.00	1.00	0.08	0.07	0.93
LACUNA VARIEGATA	8.33	14.43	1.73	0.10	0.17	1.73
SEARLESIA DIRA	1.67	2.89	1.73	2.06	3.57	1.73
TURBONILLA SP.	1.67	2.89	1.73	0.03	0.05	1.73
MODIOLUS RECTUS	1.67	2.89	1.73	0.00	0.00	0.00
VENEROIDA SP. JUV.	1.67	2.89	1.73	0.00	0.00	0.00
MYSELLA TUMIDA	25.00	20.00	0.80	0.04	0.05	1.04
CLINOCARDIUM CALIFORN	6.67	2.89	0.43	50.27	86.44	1.72
MACOMA SP.	6.67	7.64	1.15	0.49	0.70	1.41
MACOMA OBLIQUA	1.67	2.89	1.73	0.03	0.05	1.73
PSEPHIDIA LORDI	96.67	34.03	0.35	0.81	0.26	0.32
MYA ARENARIA	8.33	2.89	0.35	0.20	0.27	1.36
LAMPROPS SP.	1.67	2.89	1.73	0.01	0.02	1.73
DIASTYLOPSIS SP.	3.33	5.77	1.73	0.03	0.05	1.73
LEPTOCHELIA SAVIGNYI	300.00	279.15	0.93	0.94	0.90	0.95
IDOTEA SP.	1.67	2.89	1.73	0.01	0.02	1.73
AMPELISCA SP.	6.67	7.64	1.15	0.00	0.00	0.00
PONTOGENEIA INERMIS	3.33	2.89	0.87	0.01	0.02	1.73
PHOTIS SP.	8.33	14.43	1.73	0.00	0.00	0.00
PHOTIS BREVIPES	6.67	7.64	1.15	0.01	0.02	1.73
PROTOMEDEIA SP.	13.33	7.64	0.57	0.01	0.02	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ISCHYROCERUS ANGUIPES	1.67	2.89	1.73	0.01	0.02	1.73
LYSIANASSIDAE SP. A	5.00	5.00	1.00	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	3.33	5.77	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	96.67	68.25	0.71	0.21	0.25	1.20
AMPHIPODA CAPRELLIDAE	1.67	2.89	1.73	0.00	0.00	0.00
PINNIXA SP.	1.67	2.89	1.73	0.01	0.02	1.73
PINNIXA OCCIDENTALIS	1.67	2.89	1.73	0.05	0.08	1.73
OPHIUROIDEA	1.67	2.89	1.73	0.01	0.02	1.73
LEPTOSYNAPTA CLARKI	10.00	8.66	0.87	2.66	3.36	1.27

NSPEC	SDI	TMEANC	TMEANW
64.00	3.70	1201.66	135.56

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
FILAMENTOUS DIATOMS	0.00	0.00	0.00	0.01	0.02	1.73
DESMARESTIA ACULEATA	0.00	0.00	0.00	5.96	10.33	1.73
DESMARESTIA LIGULATA	0.00	0.00	0.00	8.50	10.18	1.20
DESMARESTIA VIRIDIS	0.00	0.00	0.00	29.62	49.86	1.68
SCYTOSIPHON LOMENTARI	0.00	0.00	0.00	0.01	0.02	1.73
RHODOPHYCEAE	0.00	0.00	0.00	0.39	0.56	1.45
IRIDAEA HETEROCARPA	0.00	0.00	0.00	2.65	4.58	1.73
KALLYMENIACEAE	0.00	0.00	0.00	1.05	1.10	1.04
CALLOCOLAX NEGLECTUS	0.00	0.00	0.00	0.04	0.07	1.73
CALLOPHYLLIS SP.	0.00	0.00	0.00	14.10	24.42	1.73
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	0.65	0.92	1.41
CALLOPHYLLIS PINNATA	0.00	0.00	0.00	13.60	23.55	1.73
CALLOPHYLLIS THOMPSON	0.00	0.00	0.00	1.30	2.25	1.73
CALLITHAMNION PIKEANU	0.00	0.00	0.00	0.02	0.03	1.73
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.89	0.68	0.76
HYMENENA FLABELLIGERA	0.00	0.00	0.00	27.36	47.39	1.73
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	17.43	15.63	0.90
LOPHOSIPHONIA SP.	0.00	0.00	0.00	0.11	0.13	1.15
HERPOSIPHONIA GRANDIS	0.00	0.00	0.00	0.01	0.01	1.73
PTEROCHONDRIA WOODII	0.00	0.00	0.00	0.85	0.99	1.16
RHYNCHOCOELA	11.67	12.58	1.08	0.08	0.10	1.31
CEREBRATULUS CALIFORN	18.33	10.41	0.57	1.66	2.28	1.38
NEMATODA	46.67	76.54	1.64	0.20	0.34	1.73
PHOLOE MINUTA	28.33	20.82	0.73	0.17	0.13	0.73
ETEONE TUBERCULATA	1.67	2.89	1.73	0.00	0.00	0.00
OPHIODROMUS PUGETTENS	3.33	2.89	0.87	0.01	0.02	1.73
TYPOSYLLIS HYALINA	6.67	5.77	0.87	0.00	0.00	0.00
EUSYLLIS JAPONICA	1.67	2.89	1.73	0.00	0.00	0.00
EXOGONE LOUREI	10.00	13.23	1.32	0.00	0.00	0.00
PLATYNEREIS BICANALIC	5.00	8.66	1.73	0.92	1.59	1.73
HEMIPODUS BOREALIS	8.33	5.77	0.69	0.49	0.09	0.18
DORVILLEA RUDOLPHI	1.67	2.89	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACIL	1.67	2.89	1.73	0.00	0.00	0.00
SPIONIDAE	3.33	2.89	0.87	0.04	0.05	1.04
PRIONOSPIO CIRRIFERA	5.00	0.00	0.00	0.04	0.00	0.00
PRIONOSPIO STEENSTRUP	25.00	13.23	0.53	0.42	0.15	0.36
SPIO FILICORNIS	3.33	5.77	1.73	0.03	0.05	1.73
SPIOPHANES BOMBYX	3.33	5.77	1.73	0.01	0.02	1.73
MALACOCEROS GLUTAEUS	1.67	2.89	1.73	0.01	0.02	1.73
CIRRATULUS CIRRATUS	1.67	2.89	1.73	1.43	2.48	1.73
CAULLERIELLA GRACILIS	1.67	2.89	1.73	0.03	0.05	1.73
CHAETOZONE SETOSA	25.00	30.41	1.22	0.06	0.03	0.51
SCALIBREGMA INFLATUM	8.33	2.89	0.35	0.28	0.02	0.08
MEDIOMASTUS SP.	51.67	7.64	0.15	0.14	0.09	0.62
NICOMACHE PERSONATA	43.33	10.41	0.24	1.49	0.90	0.61
PRAXILLELLA AFFINIS	46.67	53.46	1.15	0.28	0.24	0.87
OWENIA FUSIFORMIS	10.00	8.66	0.87	0.46	0.45	0.96
PECTINARIA BELGICA	3.33	2.89	0.87	0.25	0.25	1.00
AMPHARETIDAE	6.67	5.77	0.87	0.03	0.02	0.87
AMPHARETE ARCTICA	8.33	14.43	1.73	0.03	0.05	1.73
TEREBELLIDES STROEMI	1.67	2.89	1.73	0.05	0.08	1.73
SABELLIDAE	0.00	0.00	0.00	0.10	0.17	1.73
CHONE GRACILIS	1.67	2.89	1.73	0.00	0.00	0.00
PSEUDOPOTAMILLA OCCEL	1.67	2.89	1.73	0.08	0.14	1.73
DISTYLIDIA RUGOSA	1.67	2.89	1.73	0.35	0.60	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
FABRICIA PACIFICA	1.67	2.89	1.73	0.00	0.00	0.00
OLIGOCHAETA	1.67	2.89	1.73	0.00	0.00	0.00
ACMAEIDAE JUV.	1.67	2.89	1.73	0.00	0.00	0.00
COLLISELLA PELTA	1.67	2.89	1.73	0.01	0.02	1.73
NOTOACMEA SCUTUM	4.67	2.89	0.43	0.11	0.08	0.72
MARGARITES PUPILLUS	6.67	7.64	1.15	0.51	0.81	1.58
MARGARITES LIRULATUS	20.00	30.41	1.52	0.44	0.61	1.38
LACUNA VARIEGATA	1.67	2.89	1.73	0.00	0.00	0.00
ALVINIA SP.	5.00	5.00	1.00	0.00	0.00	0.00
CALYPTRAEA FASTIGIATA	100.00	20.00	0.20	2.46	1.97	0.80
PLICIFUSUS SP.	3.33	5.77	1.73	0.03	0.05	1.73
TURBONILLA SP.	8.33	2.89	0.35	0.04	0.05	1.04
CYANOPLAX DENTIENS	16.67	2.89	0.17	0.09	0.05	0.56
LEPIDOZONA MERTENSII	5.00	5.00	1.00	0.11	0.20	1.73
NUCULANA HAMATA	1.67	2.89	1.73	0.01	0.02	1.73
GLYCYMERIS SP.	95.00	22.91	0.24	0.31	0.11	0.35
MODIOLUS RECTUS	11.67	2.89	0.25	0.12	0.08	0.62
CYCLOCARDIA SP.	28.33	7.64	0.27	2.86	2.23	0.78
CLINOCARDIUM CALIFORN	6.67	7.64	1.15	5.61	9.72	1.73
MACOMA SP.	1.67	2.89	1.73	0.00	0.00	0.00
MACOMA OBLIQUA	10.00	8.66	0.87	0.73	0.77	1.06
SAXIDOMUS GIGANTEUS	11.67	2.89	0.25	418.56	424.16	1.01
PSEPHIDIA LORDI	1.67	2.89	1.73	0.01	0.02	1.73
MYA ARENARIA	3.33	5.77	1.73	0.06	0.11	1.73
OSTRACODA	1.67	2.89	1.73	0.00	0.00	0.00
BALANUS CRENATUS	1.67	2.89	1.73	0.20	0.34	1.73
LEPTOCHELIA SAVIGNYI	100.00	73.65	0.74	0.08	0.07	0.93
IDOTEA RESECATA	1.67	2.89	1.73	0.01	0.02	1.73
IDOTEA FEWKESI	1.67	2.89	1.73	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	8.33	7.64	0.92	0.01	0.02	1.73
AMPELISCA SP.	1.67	2.89	1.73	0.01	0.02	1.73
AMPITHOE SP.	3.33	5.77	1.73	0.03	0.05	1.73
AMPITHOE VALIDA	1.67	2.89	1.73	0.17	0.29	1.73
ACROIDES COLUMBIAE	1.67	2.89	1.73	0.00	0.00	0.00
MELITA SP. A	1.67	2.89	1.73	0.00	0.00	0.00
ISCHYROCERUS ANGUIPES	3.33	5.77	1.73	0.01	0.02	1.73
ANONYX NUGAX	1.67	2.89	1.73	0.06	0.11	1.73
SYNCHELIDIUM SHOEMAKE	6.67	11.55	1.73	0.01	0.02	1.73
SCLEROCRANGON ALATA	1.67	2.89	1.73	0.00	0.00	0.00
EUGERTIA GRACILIS	1.67	2.89	1.73	0.23	0.40	1.73
PINNIXA OCCIDENTALIS	10.00	5.00	0.50	0.17	0.13	0.73
GOLFINGIA PUGETTENSIS	1.67	2.89	1.73	2.00	3.46	1.73
OPHIUROIDEA	6.67	7.64	1.15	0.13	0.19	1.47
EUPENTACTA QUINQUESEM	3.33	5.77	1.73	12.46	21.59	1.73
LEPTOSYNAPTA CLARKI	20.00	10.00	0.50	2.17	1.91	0.88
PHOLIS LAETA	1.67	2.89	1.73	0.71	1.24	1.73

NSPEC	SDI	TMEANC	TMEANW
101.00	4.30	934.99	584.25

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAP
		COUNT			WEIGHT	
NEMERTEA	5.00	7.07	1.41	0.00	0.00	0.00
OLIGOCHAETA ENCHYTRAE	42.00	27.06	0.64	0.00	0.00	0.00
LACUNA VARIEGATA	1.00	2.24	2.24	0.01	0.02	2.24
PARAMOERA MOHRI	20.00	31.42	1.57	0.03	0.04	1.09
EGG MASSES	6.00	13.42	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
5.00	2.13	74.00	0.04

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAI
		COUNT			WEIGHT	
NEMERTEA	8.33	14.43	1.73	0.00	0.00	0.0(
OLIGOCHAETA ENCHYTRAE	130.00	78.58	0.60	0.03	0.02	0.8'
LACUNA VARIEGATA	1.67	2.89	1.73	0.00	0.00	0.0(
PARAMOERA MOHRI	1.67	2.89	1.73	0.01	0.02	1.7:

NSPEC	SDI	TMEANC	TMEANW
4.00	1.22	141.67	0.04

	MEAN	S.D.	CVAR	MEAN	S.D.	CVA
		COUNT			WEIGHT	
LUMBRINERIS ZONATA	1.67	2.89	1.73	0.01	0.02	1.7
OLIGOCHAETA ENCHYTRAE	40.00	15.00	0.38	0.00	0.00	0.0
LACUNA VARIEGATA	6.67	2.89	0.43	0.01	0.02	1.7
PARAMOERA MOHRI	8.33	14.43	1.73	0.01	0.02	1.7
EGG MASSES	6.67	5.77	0.87	0.00	0.00	0.0

NSPEC	SDI	TMEANC	TMEANW
5.00	1.97	63.33	0.04

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PLATYHELMINTHES	1.00	2.24	2.24	0.00	0.00	0.00
NEMERTEA	1.00	2.24	2.24	0.00	0.00	0.00
OLIGOCHAETA ENCHYTRAE	34.00	44.50	1.31	0.01	0.02	2.24
LACUNA VARIEGATA	10.00	10.00	1.00	0.03	0.06	2.24
PARAMOERA MOHRI	250.00	497.23	1.99	0.17	0.28	1.67
DECAPODA ZOEA	1.00	2.24	2.24	0.01	0.02	2.24
EGG MASSES	2.00	2.74	1.37	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
7.00	1.00	299.00	0.21

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	73.33	20.21	0.28	0.14	0.17	1.24
HEMIPODUS BOREALIS	3.33	2.89	0.87	0.24	0.21	0.87
OLIGOCHAETA ENCHYTRAE	6.67	2.89	0.43	0.00	0.00	0.00
LACUNA VARIEGATA	11.67	5.77	0.49	0.17	0.29	1.73
PARAMOERA MOHRI	530.00	305.49	0.58	0.37	0.45	1.20
PUGETTIA GRACILIS	1.67	2.89	1.73	0.00	0.00	0.00
EGG MASSES	5.00	8.66	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
7.00	1.58	631.67	0.92

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	73.33	72.86	0.99	0.00	0.00	0.00
NEMATODA	3.33	5.77	1.73	0.00	0.00	0.00
OLIGOCHAETA ENCHYTRAE	3.33	5.77	1.73	0.00	0.00	0.00
LACUNA VARIEGATA	16.67	2.89	0.17	0.09	0.09	0.96
GNORIMOSPHAEROMA OREG	1.67	2.89	1.73	0.00	0.00	0.00
PARAMOERA MOHRI	535.00	507.67	0.95	0.39	0.56	1.43
PONTOGENEIA SP.	45.00	77.94	1.73	0.01	0.02	1.73
PUGETTIA GRACILIS	5.00	5.00	1.00	0.01	0.02	1.73
EGG MASSES	3.33	2.89	0.87	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
9.00	1.46	686.67	0.51

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	66.00	117.65	1.78	0.02	0.02	1.37
NEREIS SP.	1.00	2.24	2.24	0.01	0.02	2.24
HEMIPODUS BOREALIS	13.00	10.95	0.84	1.27	1.05	0.83
PROTODORVILLEA GRACIL	1.00	2.24	2.24	0.00	0.00	0.00
CAPITELLA CAPITATA	2.00	4.47	2.24	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	1.00	2.24	2.24	0.00	0.00	0.00
LACUNA VARIEGATA	38.00	47.25	1.24	0.35	0.42	1.20
GNORIMOSPHAEROMA OREG	1.00	2.24	2.24	0.01	0.02	2.24
PARAMDERA MOHRI	37621.00	24374.45	0.65	46.13	35.50	0.77
PUGETTIA GRACILIS	4.00	8.94	2.24	0.03	0.06	2.24
TELMESSUS CHEIRAGONUS	1.00	2.24	2.24	0.01	0.02	2.24
EGG MASSES	4.00	6.52	1.63	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
12.00	1.47	37753.00	47.82

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	31.67	32.53	1.03	0.03	0.02	0.87
NEMATODA	1.67	2.89	1.73	0.00	0.00	0.00
HEMIPODUS BOREALIS	11.67	7.64	0.65	2.22	1.76	0.79
PROTODORVILLEA GRACIL	3.33	5.77	1.73	0.00	0.00	0.00
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.00	0.00	0.00
CIRRATULUS CIRRATUS	1.67	2.89	1.73	0.01	0.02	1.73
CAULLERIELLA SP.	1.67	2.89	1.73	0.00	0.00	0.00
CAPITELLA CAPITATA	5.00	8.66	1.73	5.00	8.66	1.73
SACCOCIRRUS PROTICUS	660.00	1134.50	1.72	0.86	1.50	1.73
OLIGOCHAETA ENCHYTRAE	3.33	5.77	1.73	0.00	0.00	0.00
LACUNA VARIEGATA	56.67	51.32	0.91	0.19	0.30	1.56
ONORIMOSPHAEROMA OREG	23.33	32.15	1.38	0.14	0.18	1.23
IDOTEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
LIGIA PALLASI	85.00	147.22	1.73	0.65	1.12	1.73
PARAMOERA MOHRI	9306.66	5366.40	0.58	8.82	6.95	0.79
MELITA CALIFORNICA	25.00	43.30	1.73	0.10	0.17	1.73
PUGETTIA GRACILIS	30.00	10.00	0.33	0.07	0.06	0.79
DECAPODA ZOEA	6.67	11.55	1.73	0.03	0.05	1.73
EGG MASSES	8.33	14.43	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
19.00	1.34	10264.99	18.13

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NAVICULA SP.	0.00	0.00	0.00	0.04	0.06	1.73
MONOSTROMA OXYSPERMUM	0.00	0.00	0.00	23.02	39.88	1.73
MONOSTROMA FUSCUM	0.00	0.00	0.00	32.71	56.66	1.73
MONOSTROMA GREVILLEI	0.00	0.00	0.00	15.86	16.64	1.05
ENTEROMORPHA LINZI	0.00	0.00	0.00	12.53	17.50	1.40
ULVA SP.	0.00	0.00	0.00	15.55	23.73	1.53
ULVA LOBATA	0.00	0.00	0.00	6.83	11.84	1.73
SPONGOMORPHA SPINESCE	0.00	0.00	0.00	257.14	172.45	0.67
IRIDAEA CORDATA	0.00	0.00	0.00	23.30	36.02	1.55
RHODYMENIA PALMATA	0.00	0.00	0.00	26.76	46.34	1.73
RHODYMENIA PERTUSA	0.00	0.00	0.00	62.13	85.98	1.38
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	10.85	18.80	1.73
HALICLYSTUS SP.	1.67	2.89	1.73	0.03	0.05	1.73
NEMERTEA	15.00	8.66	0.58	0.07	0.06	0.79
NEMATODA	1.67	2.89	1.73	0.00	0.00	0.00
PHYLLODOCE SP.	1.67	2.89	1.73	0.00	0.00	0.00
EULALIA SP.	5.00	5.00	1.00	0.00	0.00	0.00
TYPOSYLLIS SP.	10.00	0.00	0.00	0.01	0.02	1.73
EXOGONE SP.	5.00	8.66	1.73	0.00	0.00	0.00
PLATYNEREIS BICANALIC	13.33	15.28	1.15	3.36	4.87	1.45
NEPHTYS SP.	1.67	2.89	1.73	0.13	0.23	1.73
HEMIPODUS BOREALIS	8.33	10.41	1.25	0.10	0.13	1.39
GLYCINDE PICTA	6.67	11.55	1.73	0.08	0.14	1.73
ONUPHIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
EROTODORVILLEA GRACIL	6.67	5.77	0.87	0.00	0.00	0.00
SCOLOPLOS ARMIGER	1.67	2.89	1.73	0.00	0.00	0.00
SPIO SP.	11.67	16.07	1.38	0.06	0.11	1.73
SPIO FILICORNIS	20.00	22.91	1.15	0.21	0.29	1.38
PYGOSPIO ELEGANS	28.33	44.81	1.58	0.01	0.02	1.73
MALACOCEROS GLUTAEUS	36.67	22.55	0.61	0.04	0.05	1.04
CIRRATULUS CIRRATUS	5.00	5.00	1.00	0.39	0.61	1.54
THARYX SP.	8.33	14.43	1.73	0.01	0.02	1.73
ARMANDIA BREVIS	13.33	2.89	0.22	0.05	0.08	1.73
CAPITELLA CAPITATA	28.33	22.55	0.80	0.06	0.07	1.20
MEDIOMASTUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
BRANCHIOMALDANE SP.	5.00	8.66	1.73	0.00	0.00	0.00
AMPHARETE ARCTICA	1.67	2.89	1.73	0.01	0.02	1.73
SACCOCIRRUS EROTICUS	11.67	20.21	1.73	0.00	0.00	0.00
OLIGOCHAETA	5.00	5.00	1.00	0.00	0.00	0.00
LACUNA SP.	725.00	343.84	0.47	7.16	2.54	0.36
OSTRACODA	1.67	2.89	1.73	0.00	0.00	0.00
BALANUS CARIOSUS	1.67	2.89	1.73	0.21	0.37	1.73
BALANUS CRENATUS	3.33	2.89	0.87	0.03	0.05	1.73
IDOTEA SP.	8.33	7.64	0.92	0.03	0.02	0.87
AMPHIPODA GAMMARIDEA	5.00	5.00	1.00	0.00	0.00	0.00
AOROIDES COLUMBIAE	20.00	5.00	0.25	0.00	0.00	0.00
PONTOGENEIA SP.	53.33	23.09	0.43	0.09	0.05	0.56
MELITA SP.	321.67	277.05	0.86	0.96	0.91	0.95
HYALE SP.	3.33	5.77	1.73	0.01	0.02	1.73
PARALLORCHESTES OCHOT	13.33	7.64	0.57	0.04	0.05	1.04
PROTOMEDEIA (CHEIRIME	1.67	2.89	1.73	0.00	0.00	0.00
ISCHYROCERUS ANGUIPES	58.33	88.08	1.51	0.01	0.02	1.73
ORCHOMENE CF. PINGUIS	1.67	2.89	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	1.67	2.89	1.73	0.00	0.00	0.00
PLEUSTES DEPRESSA	1.67	2.89	1.73	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
METACAPRELLA KENNERL	1.67	2.89	1.73	0.03	0.05	1.73
HEPTACARPUS SP.	16.67	5.77	0.35	0.14	0.05	0.36
PAGURUS SP.	5.00	5.00	1.00	0.09	0.10	1.07
PUGETTIA GRACILIS	15.00	18.03	1.20	0.28	0.45	1.61
CANCER SP.	66.67	17.56	0.26	3.63	2.61	0.72

NSPEC	SDI	TMEANC	TMEANW
60.00	3.07	1583.33	504.08

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NAVICULA SP.	0.00	0.00	0.00	0.10	0.17	1.73
MONOSTROMA FUSCUM	0.00	0.00	0.00	3.51	6.08	1.73
ENTEROMORPHA LINZA	0.00	0.00	0.00	7.32	6.40	0.87
ULVA LOBATA	0.00	0.00	0.00	6.43	11.14	1.73
SPONGOMORPHA SPINESCE	0.00	0.00	0.00	4.42	7.65	1.73
HALICYSTIS OVALIS	0.00	0.00	0.00	0.03	0.05	1.73
LAMINARIA SP.	0.00	0.00	0.00	34.25	59.32	1.73
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	2.44	4.22	1.73
HALYMENIA COCCINEA	0.00	0.00	0.00	7.20	12.46	1.73
RHODYMENIA PERTUSA	0.00	0.00	0.00	12.29	21.29	1.73
ANTITHAMNION DENDROID	0.00	0.00	0.00	0.47	0.81	1.73
SCAGELIA OCCIDENTALE	0.00	0.00	0.00	1.14	1.14	1.00
LAURENCIA SPECTABILIS	0.00	0.00	0.00	0.30	0.35	1.18
PTEROCHONDRIA WOODII	0.00	0.00	0.00	0.04	0.08	1.73
ZOSTERA MARINA	0.00	0.00	0.00	0.38	0.66	1.73
HALICLYSTUS SP.	3.33	2.89	0.87	0.03	0.02	0.87
NEMERTEA	25.00	25.00	1.00	0.28	0.36	1.32
HARMOTHOE IMBRICATA	1.67	2.89	1.73	0.00	0.00	0.00
PHYLLODOCE SP.	11.67	20.21	1.73	0.13	0.23	1.73
ETEONE SP.	5.00	0.00	0.00	0.08	0.07	0.93
MICRODOARKE DUBIA	5.00	8.66	1.73	0.01	0.02	1.73
TYPOSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
EXOGONE SP.	10.00	8.66	0.87	0.00	0.00	0.00
NEREIS SP.	5.00	5.00	1.00	0.28	0.48	1.73
PLATYNEREIS BICANALIC	10.00	13.23	1.32	2.79	4.76	1.70
GLYCINDE PICTA	15.00	5.00	0.33	0.14	0.05	0.36
PROTODORVILLEA GRACIL	6.67	11.55	1.73	0.01	0.02	1.73
SCOLOPLOS ARMIGER	16.67	24.66	1.48	0.10	0.17	1.73
SCOLOPLOS PUGETTENSIS	6.67	5.77	0.87	0.06	0.07	1.20
POLYDORA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	16.67	5.77	0.35	0.21	0.18	0.85
SPIO SP.	1.67	2.89	1.73	0.00	0.00	0.00
SPIO FILICORNIS	11.67	12.58	1.08	0.10	0.13	1.39
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	60.00	55.68	0.93	0.08	0.10	1.31
CIRRATULUS CIRRATUS	8.33	2.89	0.35	1.57	1.97	1.25
SCALIBREGMA INFLATUM	1.67	2.89	1.73	0.40	0.69	1.73
ARMANDIA BREVIS	51.67	25.66	0.50	0.29	0.10	0.34
TRAVISIA BREVIS	3.33	5.77	1.73	0.03	0.05	1.73
CAPITELLA CAPITATA	11.67	20.21	1.73	0.05	0.08	1.73
BRANCHIOMALDANE SP.	1.67	2.89	1.73	0.00	0.00	0.00
NICOMACHE PERSONATA	1.67	2.89	1.73	0.01	0.02	1.73
AXIOTHELLA RUBROCINCT	1.67	2.89	1.73	0.06	0.11	1.73
AMPHARETE ARCTICA	8.33	7.64	0.92	0.03	0.05	1.73
PISTA SP.	3.33	5.77	1.73	0.21	0.37	1.73
OLIGOCHAETA	10.00	8.66	0.87	0.00	0.00	0.00
LACUNA SP.	35.00	40.93	1.17	0.51	0.81	1.58
MYSELLA TUMIDA	5.00	8.66	1.73	0.01	0.02	1.73
MACOMA SP.	5.00	8.66	1.73	0.03	0.05	1.73
MACOMA OBLIQUA	5.00	8.66	1.73	2.61	4.53	1.73
PSEPHIDIA LORDI	35.00	52.20	1.49	0.24	0.39	1.59
NERALIA PUGETTENSIS	5.00	5.00	1.00	0.00	0.00	0.00
LAMPROPIDAE	5.00	5.00	1.00	0.00	0.00	0.00
DIASTYLOPSIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
TANAIDACEA SP. A	1.67	2.89	1.73	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
LEPTOCHELIA SP.	15.00	15.00	1.00	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	6.67	7.64	1.15	0.00	0.00	0.00
AMPITHOE SP.	3.33	5.77	1.73	0.06	0.11	1.73
AOROIDES COLUMBIAE	75.00	72.63	0.97	0.09	0.08	0.87
ATYLUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PONTOGENEIA SP.	83.33	63.31	0.76	0.21	0.13	0.61
CERADOCUS SP.	3.33	5.77	1.73	0.06	0.11	1.73
MELITA SP.	16.67	28.87	1.73	0.03	0.05	1.73
PHOTIS SP.	55.00	86.75	1.58	0.05	0.08	1.73
PHOTIS BREVIPES	10.00	17.32	1.73	0.01	0.02	1.73
ISCHYROCERUS ANGUIPES	6.67	7.64	1.15	0.00	0.00	0.00
ORCHOMENE CF. PINGUIS	15.00	13.23	0.88	0.01	0.02	1.73
SYNCHELIDIUM SHOEMAKE	11.67	2.89	0.25	0.01	0.02	1.73
PHOXOCEPHALIDAE	93.33	72.17	0.77	0.13	0.13	0.96
PLEUSTES DEPRESSA	1.67	2.89	1.73	0.01	0.02	1.73
PLEUSIRUS SECORRUS	3.33	2.89	0.87	0.00	0.00	0.00
HEPTACARPUS SP.	1.67	2.89	1.73	0.01	0.02	1.73
PUGETTIA GRACILIS	1.67	2.89	1.73	0.03	0.05	1.73
CANCER SP.	5.00	8.66	1.73	0.08	0.14	1.73
CANCER OREGONENSIS	1.67	2.89	1.73	7.23	12.52	1.73
LEPTASTERIAS HEXACTIS	1.67	2.89	1.73	7.01	12.15	1.73
STRONGYLOCENTROTUS SP	1.67	2.89	1.73	0.01	0.02	1.73
LEPTOSYNAPTA CLARKI	5.00	0.00	0.00	0.21	0.18	0.85

NSPEC	SDI	TMEANC	TMEANW
78.00	4.02	838.33	105.94

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NAVICULA SP.	0.00	0.00	0.00	0.64	0.87	1.36
MONOSTROMA FUSCUM	0.00	0.00	0.00	15.81	25.47	1.61
ENTEROMORPHA CLATHRAT	0.00	0.00	0.00	0.00	0.01	1.73
ENTEROMORPHA LINZA	0.00	0.00	0.00	10.46	9.28	0.89
SPONGOMORPHA SPINESCE	0.00	0.00	0.00	18.64	16.27	0.87
HALICYSTIS OVALIS	0.00	0.00	0.00	0.03	0.05	1.73
CYMATHERE TRIPLICATA	0.00	0.00	0.00	5.38	9.32	1.73
ALARIA MARGINATA	0.00	0.00	0.00	41.44	71.77	1.73
DESMARESTIA ACULEATA	0.00	0.00	0.00	0.20	0.34	1.73
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	2.92	4.16	1.42
GYMNOGONGRUS LEPTOPHY	0.00	0.00	0.00	0.96	1.66	1.73
IRIDAEA SP.	0.00	0.00	0.00	26.36	27.55	1.05
IRIDAEA CORDATA	0.00	0.00	0.00	110.59	191.55	1.73
SCAGELIA OCCIDENTALE	0.00	0.00	0.00	1.55	1.04	0.67
ZOSTERA MARINA	0.00	0.00	0.00	33.96	58.81	1.73
NEMERTEA	43.33	18.93	0.44	4.24	7.10	1.67
NEMATODA	15.00	13.23	0.88	0.78	1.35	1.73
HARMOTHOE IMBRICATA	3.33	5.77	1.73	0.03	0.05	1.73
HESIONIDAE	15.00	15.00	1.00	0.03	0.05	1.73
MICROPODARKE DUBIA	1.67	2.89	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	33.33	28.87	0.87	0.08	0.07	0.93
EUSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
EXOGONE SP.	411.67	456.22	1.11	0.09	0.10	1.02
NEREIS SP.	23.33	20.21	0.87	0.28	0.26	0.91
PLATYNEREIS BICANALIC	16.67	20.82	1.25	0.49	0.78	1.58
NEPHTYS SP.	1.67	2.89	1.73	0.06	0.11	1.73
GLYCINDE PICTA	6.67	7.64	1.15	0.04	0.05	1.04
ONUPHIS SP.	1.67	2.89	1.73	0.01	0.02	1.73
PROTODORVILLEA GRACIL	158.33	104.92	0.66	0.11	0.06	0.54
SCOLOPLOS ARMIGER	5.00	8.66	1.73	0.17	0.29	1.73
SCOLOPLOS PUGETTENSIS	13.33	5.77	0.43	0.24	0.26	1.10
ARICIDEA SP.	50.00	39.69	0.79	0.04	0.05	1.04
POLYDORA SP.	6.67	7.64	1.15	0.01	0.02	1.73
PRIONOSPIO CIRRIFERA	3.33	2.89	0.87	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	20.00	18.03	0.90	0.51	0.50	0.98
SPIO SP.	66.67	27.54	0.41	0.14	0.05	0.36
SPIO FILICORNIS	16.67	7.64	0.46	0.07	0.03	0.39
SPIOPHANES BOMBYX	98.33	93.85	0.95	1.01	0.77	0.76
SPIOPHANES CIRRATA	3.33	5.77	1.73	0.03	0.05	1.73
MALACOCEROS GLUTAEUS	46.67	34.03	0.73	0.01	0.00	0.00
MAGELONA PITELKAI	3.33	2.89	0.87	0.13	0.11	0.87
THARYX SP.	10.00	17.32	1.73	0.01	0.02	1.73
CHAETOZONE SP.	63.33	51.07	0.81	0.33	0.33	1.02
ARMANDIA BREVIS	15.00	13.23	0.88	0.08	0.07	0.93
TRAVISIA BREVIS	33.33	23.63	0.71	2.40	2.53	1.05
MEDIOMASTUS SP.	25.00	31.22	1.25	0.10	0.13	1.39
NICOMACHE PERSONATA	121.67	105.40	0.87	5.78	5.02	0.87
AXIOTHELLA RUBROCINCT	81.67	71.82	0.88	1.59	2.00	1.26
OWENIA FUSIFORMIS	40.00	31.22	0.78	1.29	1.41	1.09
AMPHARETE ARCTICA	3.33	5.77	1.73	0.01	0.02	1.73
CLIGOCHAETA	133.33	119.30	0.89	0.03	0.05	1.73
LACUNA SP.	140.00	101.49	0.72	2.11	1.12	0.53
TURBONILLA SP.	5.00	8.66	1.73	0.11	0.20	1.73
MYSELLA TUMIDA	21.67	15.28	0.71	0.06	0.05	0.87
CYCLOCARDIA SP.	5.00	8.66	1.73	0.10	0.17	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MACOMA SP.	3.33	5.77	1.73	0.33	0.58	1.73
MACOMA OBLIQUA	3.33	5.77	1.73	1.40	2.42	1.73
PSEPHIDIA LORDI	113.33	40.72	0.36	1.12	0.63	0.56
LAMPROPIDAE	5.00	5.00	1.00	0.01	0.02	1.73
TANAIDACEA	10.00	8.66	0.87	0.00	0.00	0.00
TANAIDACEA SP. A	10.00	13.23	1.32	0.01	0.02	1.73
LEPTOCHELIA SP.	428.33	446.02	1.04	0.14	0.15	1.01
TECTICEPS PUGETTENSIS	1.67	2.89	1.73	0.21	0.37	1.73
EXOSPHAEROMA AMPLICAU	1.67	2.89	1.73	0.00	0.00	0.00
IDOTEA SP.	6.67	5.77	0.87	0.00	0.00	0.00
IDOTEA RUFESCENS	3.33	2.89	0.87	0.09	0.10	1.02
AMPHIPODA GAMMARIDEA	8.33	7.64	0.92	0.00	0.00	0.00
AMPITHOE SP.	1.67	2.89	1.73	0.42	0.72	1.73
AORIDES COLUMBIAE	70.00	57.66	0.82	0.06	0.07	1.20
CORophium SP.	3.33	5.77	1.73	0.00	0.00	0.00
PONTOGENEIA SP.	35.00	15.00	0.43	0.06	0.03	0.51
MELITA CALIFORNICA	5.00	8.66	1.73	0.01	0.02	1.73
HYALE SP.	3.33	2.89	0.87	0.00	0.00	0.00
PHOTIS SP.	11.67	20.21	1.73	0.01	0.02	1.73
PHOTIS BREVIPES	116.67	108.67	0.93	0.13	0.13	0.96
PROTOMEDEIA (CHEIRIME	26.67	33.29	1.25	0.01	0.02	1.73
ISCHYROCERUS ANGUIPES	6.67	5.77	0.87	0.00	0.00	0.00
ORCHOMENE CF. PINGUIS	3.33	2.89	0.87	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	21.67	16.07	0.74	0.03	0.02	0.87
PHOXOCEPHALIDAE	91.67	90.74	0.99	0.17	0.19	1.09
CAPRELLA SP.	1.67	2.89	1.73	0.01	0.02	1.73
METACAPRELLA KENNERL	15.00	8.66	0.58	0.27	0.36	1.32
HEPTACARPUS SP.	6.67	11.55	1.73	0.03	0.05	1.73
UPOGEBIA PUGETTENSIS	1.67	2.89	1.73	0.03	0.05	1.73
PAGURUS SP.	5.00	0.00	0.00	0.01	0.02	1.73
PUGETTIA GRACILIS	3.33	2.89	0.87	1.80	2.99	1.67
CANCER SP.	11.67	7.64	0.65	0.21	0.13	0.61
LEPTOSYNAPTA CLARKI	3.33	2.89	0.87	1.48	2.52	1.71
EGG MASSES	0.00	0.00	0.00	0.03	0.05	1.73

NSPEC	SDI	TMEANC	TMEANW
89.00	4.05	2804.99	299.67

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NAVICULA SP.	0.00	0.00	0.00	0.42	0.73	1.73
MONOSTROMA GREVILLEI	0.00	0.00	0.00	1.25	2.17	1.73
COSTARIA COSTATA	0.00	0.00	0.00	30.44	52.73	1.73
ALARIA MARGINATA	0.00	0.00	0.00	116.90	202.48	1.73
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	64.30	96.91	1.51
AHNFELTIA PLICATA	0.00	0.00	0.00	2.64	4.57	1.73
IRIDAEA CORDATA	0.00	0.00	0.00	157.98	273.62	1.73
PRIONITIS LANCEOLATA	0.00	0.00	0.00	23.62	40.91	1.73
HALYMENIA CALIFORNICA	0.00	0.00	0.00	10.17	17.61	1.73
SCAGELIA OCCIDENTALE	0.00	0.00	0.00	9.45	14.93	1.58
POLYNEURA LATISSIMA	0.00	0.00	0.00	8.43	14.60	1.73
PTEROSIPHONIA SP.	0.00	0.00	0.00	2.95	5.12	1.73
LAURENCIA SPECTABILIS	0.00	0.00	0.00	35.13	45.04	1.28
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	1.59	2.43	1.53
PTEROCHONDRIA WOODII	0.00	0.00	0.00	0.21	0.36	1.73
ZOSTERA MARINA	0.00	0.00	0.00	20.63	35.74	1.73
NEMERTEA	55.00	30.00	0.55	3.66	6.09	1.67
NEMATODA	6.67	7.64	1.15	0.00	0.00	0.00
HARMOTHOE IMBRICATA	3.33	2.89	0.87	0.00	0.00	0.00
PHOLOE MINUTA	1.67	2.89	1.73	0.00	0.00	0.00
PHYLLODOCE SP.	5.00	5.00	1.00	0.05	0.08	1.73
ETEONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
HESIONIDAE	25.00	21.79	0.87	0.00	0.00	0.00
MICROPODARKE DUBIA	5.00	5.00	1.00	0.00	0.00	0.00
TYPOSYLLIS SP.	43.33	35.47	0.82	0.06	0.05	0.87
EXOGONE SP.	68.33	38.19	0.56	0.03	0.02	0.87
SPHAEROSYLLIS SP.	15.00	21.79	1.45	0.00	0.00	0.00
NEREIS SP.	10.00	8.66	0.87	0.76	0.38	1.44
GLYCINDE PICTA	1.67	2.89	1.73	0.05	0.08	1.73
ODONTOSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACIL	198.33	142.95	0.72	0.13	0.11	0.87
SCOLOPLOS PUGETTENSIS	6.67	7.64	1.15	0.01	0.02	1.73
ARICIDEA SP.	31.67	14.43	0.45	0.01	0.02	1.73
POLYDORA SP.	3.33	2.89	0.87	0.01	0.02	1.73
PRIONOSPIO CIRRIFERA	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	18.33	18.93	1.03	0.36	0.38	1.06
SPIO SP.	5.00	8.66	1.73	0.00	0.00	0.00
SPIO FILICORNIS	10.00	8.66	0.87	0.04	0.05	1.04
SPIOPHANES BOMBYX	405.00	148.58	0.37	2.17	0.25	0.12
SPIOPHANES CIRRATA	3.33	5.77	1.73	0.01	0.02	1.73
MAGELONA PITELKAI	1.67	2.89	1.73	0.03	0.05	1.73
CHAETOZONE SP.	11.67	2.89	0.25	0.04	0.00	0.00
SCALIBREGMA INFLATUM	1.67	2.89	1.73	0.21	0.37	1.73
ARMANDIA BREVIS	1.67	2.89	1.73	0.01	0.02	1.73
TRAVISIA BREVIS	16.67	5.77	0.35	0.43	0.62	1.46
CAPITELLA CAPITATA	1.67	2.89	1.73	0.00	0.00	0.00
NOTOMASTUS GIGANTEUS	1.67	2.89	1.73	0.00	0.00	0.00
MEDIOMASTUS SP.	65.00	43.59	0.67	0.17	0.13	0.73
AXIOTHELLA RUBROCINCT	70.00	8.66	0.12	4.31	3.81	0.88
OWENIA FUSIFORMIS	31.67	7.64	0.24	1.36	0.66	0.49
AMPHARETE ARCTICA	6.67	7.64	1.15	0.03	0.05	1.73
TEREBELLIDAE	35.00	18.03	0.52	0.24	0.13	0.55
OLIGOCHAETA	46.67	14.43	0.31	0.00	0.00	0.00
MARGARITES PUPILLUS	3.33	5.77	1.73	1.20	2.07	1.73
LACUNA SP.	20.00	13.23	0.66	0.26	0.25	0.96

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAP
		COUNT			WEIGHT	
CALYPTRAEA FASTIGIATA	1.67	2.89	1.73	0.21	0.37	1.73
GLYCYMERIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
MYSELLA TUMIDA	41.67	15.28	0.37	0.09	0.02	0.25
CYCLOCARDIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
CLINOCARDIUM NUTTALLI	5.00	5.00	1.00	117.84	203.95	1.73
MACOMA SP.	8.33	5.77	0.69	0.11	0.08	0.72
MACOMA OBLIQUA	1.67	2.89	1.73	0.68	1.18	1.73
TELLINA SP.	10.00	5.00	0.50	0.04	0.05	1.04
PSEPHIDIA LORDI	696.67	219.62	0.32	3.84	1.65	0.43
MYA ARENARIA	3.33	2.89	0.87	0.58	0.80	1.38
TANAIDACEA	1.67	2.89	1.73	0.00	0.00	0.00
TANAIDACEA SP. A	20.00	20.00	1.00	0.01	0.02	1.73
LEPTOCHELIA SP.	75.00	39.69	0.53	0.06	0.05	0.87
IDOTEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
IDOTEA RUFESCENS	3.33	5.77	1.73	0.08	0.14	1.73
AMPHIPODA GAMMARIDEA	3.33	5.77	1.73	0.00	0.00	0.00
AMPELISCA SP.	1.67	2.89	1.73	0.05	0.08	1.73
ADROIDES COLUMBIAE	10.00	10.00	1.00	0.00	0.00	0.00
CORDPHIUM SP.	51.67	18.93	0.37	0.03	0.02	0.87
PONTOGENEIA SP.	5.00	5.00	1.00	0.05	0.08	1.73
MELITA CALIFORNICA	1.67	2.89	1.73	0.00	0.00	0.00
PHOTIS BREVIPES	28.33	27.54	0.97	0.04	0.05	1.04
PROTOMEDEIA (CHEIRIME	26.67	15.28	0.57	0.01	0.02	1.73
ISCHYROCERUS ANGUIPES	6.67	7.64	1.15	0.00	0.00	0.00
RHOXOCEPHALIDAE	45.00	26.46	0.59	0.06	0.03	0.51
PLEUSTES DEPRESSA	1.67	2.89	1.73	0.00	0.00	0.00
PLEUSIRUS SECORRUS	1.67	2.89	1.73	0.00	0.00	0.00
METACAPRELLA KENNERLI	1.67	2.89	1.73	0.00	0.00	0.00
HEPTACARPUS SP.	3.33	5.77	1.73	0.03	0.05	1.73
CRANGON SP.	3.33	5.77	1.73	0.35	0.60	1.73
CANCER SP.	1.67	2.89	1.73	0.10	0.17	1.73
LEPTOSYNAPTA CLARKI	13.33	7.64	0.57	0.36	0.21	0.58

NSPEC	SDI	TMEANC	TMEANW
87.00	3.76	2321.66	625.86

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
COSTARIA COSTATA	0.00	0.00	0.00	8.18	14.16	1.73
DESMARESTIA ACULEATA	0.00	0.00	0.00	77.67	134.53	1.73
DESMARESTIA LIGULATA	0.00	0.00	0.00	117.61	28.60	0.24
PORPHYRA OCCIDENTALIS	0.00	0.00	0.00	11.23	19.46	1.73
OPUNTIELLA CALIFORNIC	0.00	0.00	0.00	2.52	4.36	1.73
PLOCAMIUM COCCINEUM	0.00	0.00	0.00	24.61	38.81	1.58
HALYMENIA CALIFORNICA	0.00	0.00	0.00	2.26	3.91	1.73
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	23.77	8.60	0.36
CONSTANTINEA SIMPLEX	0.00	0.00	0.00	3.76	6.51	1.73
CONSTANTINEA SUBULIFE	0.00	0.00	0.00	7.61	13.18	1.73
FAUCHEA LACINIATA	0.00	0.00	0.00	46.04	52.14	1.13
PLEONOSPORIUM VANCOUV	0.00	0.00	0.00	0.02	0.03	1.73
PTILOTA FILICINA	0.00	0.00	0.00	16.92	20.08	1.19
GONIMOPHYLLUM SKOTTSB	0.00	0.00	0.00	0.26	0.46	1.73
MEMBRANOPTERA WEEKSIA	0.00	0.00	0.00	0.01	0.02	1.73
HYMENENA FLABELLIGERA	0.00	0.00	0.00	18.40	16.47	0.89
PTEROCHONDRIA WOODII	0.00	0.00	0.00	0.01	0.01	1.73
NEMERTEA	23.33	7.64	0.33	0.16	0.06	0.37
NEMATODA	46.00	36.06	0.80	0.03	0.02	0.87
HARMOTHOE IMBRICATA	1.67	2.89	1.73	0.01	0.02	1.73
PHOLOE MINUTA	11.67	10.41	0.89	0.04	0.05	1.04
PHYLLODOCE SP.	1.67	2.89	1.73	0.21	0.37	1.73
ETEONE SP.	3.33	2.89	0.87	0.01	0.02	1.73
HESIONURA COINEAUI DI	3.33	5.77	1.73	0.00	0.00	0.00
MICRODODARKE DUBIA	5.00	8.66	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	20.00	10.00	0.50	0.00	0.00	0.00
EXOGONE SP.	86.67	2.89	0.03	0.04	0.00	0.00
SPHAEROSYLLIS SP.	15.00	15.00	1.00	0.00	0.00	0.00
PLATYNEREIS BICANALIC	3.33	5.77	1.73	0.00	0.00	0.00
GLYCERA SP.	1.67	2.89	1.73	0.01	0.02	1.73
HEMIPODUS BOREALIS	11.67	10.41	0.89	0.53	0.71	1.34
LUMBRINERIS SP.	2.33	2.89	0.87	0.00	0.00	0.00
PROTODORVILLEA GRACIL	31.67	24.66	0.78	0.01	0.02	1.73
ARICIDEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PARAONIS SP.	6.67	11.55	1.73	0.00	0.00	0.00
POLYDORA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO CIRRIFERA	6.67	7.64	1.15	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	33.33	11.55	0.35	0.47	0.28	0.58
SPIO SP.	71.67	63.31	0.88	0.31	0.30	0.96
SPIO FILICORNIS	5.00	8.66	1.73	0.01	0.02	1.73
SPIOPHANES BOMBYX	13.33	12.58	0.94	0.05	0.08	1.73
SPIOPHANES CIRRATA	6.67	11.55	1.73	0.01	0.02	1.73
THARYX SP.	5.00	8.66	1.73	0.00	0.00	0.00
CHAETOZONE SP.	46.67	12.58	0.27	0.24	0.17	0.72
ACROCIRRUS SP.	3.33	2.89	0.87	0.00	0.00	0.00
SCALIBREGMA INFLATUM	30.00	18.03	0.60	0.51	0.19	0.37
ARMANDIA BREVIS	10.00	0.00	0.00	0.04	0.00	0.00
CAPITELLA CAPITATA	1.67	2.89	1.73	0.00	0.00	0.00
NOTOMASTUS GIGANTEUS	5.00	8.66	1.73	0.06	0.11	1.73
MEDIOMASTUS SP.	185.00	31.22	0.17	0.31	0.03	0.09
BRANCHIOMALDANE SP.	3.33	5.77	1.73	0.01	0.02	1.73
NICOMACHE PERSONATA	31.67	20.82	0.66	1.54	0.26	0.17
AXIOTHELLA RUBROCINCT	45.00	44.44	0.99	0.21	0.29	1.40
OWENIA FUSIFORMIS	10.00	10.00	1.00	0.31	0.30	0.96
AMPHARETE ARCTICA	5.00	0.00	0.00	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
TEREBELLIDAE	20.00	15.00	0.75	0.28	0.36	1.32
SABELLIDAE	5.00	5.00	1.00	0.01	0.02	1.73
POTAMILLA NEGLECTA	6.67	11.55	1.73	0.01	0.02	1.73
OLIGOCHAETA	41.67	37.53	0.90	0.00	0.00	0.00
MARGARITES PUPILLUS	5.00	8.66	1.73	0.18	0.31	1.73
LACUNA SP.	1.67	2.89	1.73	1.68	2.91	1.73
ALVINIA SP.	3.33	5.77	1.73	0.01	0.02	1.73
CALYPTRAEA FASTIGIATA	38.33	23.63	0.62	4.49	1.60	0.36
TURBONILLA SP.	1.67	2.89	1.73	0.06	0.11	1.73
ISCHNOCHITON RETIPORO	5.00	0.00	0.00	1.02	0.35	0.35
MOPALIA CILIATA	1.67	2.89	1.73	0.25	0.43	1.73
GLYCYMERIS SP.	10.00	5.00	0.50	0.03	0.02	0.87
MODIOLUS RECTUS	1.67	2.89	1.73	0.00	0.00	0.00
MYSELLA TUMIDA	5.00	5.00	1.00	0.01	0.02	1.73
CYCLOCARDIA SP.	18.33	7.64	0.42	3.06	3.24	1.06
CLINOCARDIUM CALIFORN	1.67	2.89	1.73	2.30	3.98	1.73
MACOMA SP.	25.00	27.84	1.11	0.15	0.13	0.89
MACOMA OBLIQUA	6.67	11.55	1.73	2.08	3.61	1.73
MACOMA BALTHICA	3.33	5.77	1.73	0.45	0.77	1.73
SAXIDOMUS GIGANTEUS	1.67	2.89	1.73	1.76	3.05	1.73
MYA ARENARIA	5.00	5.00	1.00	2.88	3.03	1.05
TANAIDACEA	1.67	2.89	1.73	0.00	0.00	0.00
TANAIDACEA SP. A	1.67	2.89	1.73	0.00	0.00	0.00
LEPTOCHELIA SP.	16.67	7.64	0.46	0.00	0.00	0.00
IDOTEA SP.	5.00	5.00	1.00	0.01	0.02	1.73
PHYLLODURUS ABDOMINAL	3.33	5.77	1.73	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	5.00	5.00	1.00	0.01	0.02	1.73
AMPELISCA SP.	5.00	5.00	1.00	0.03	0.05	1.73
AMPITHOE SP.	1.67	2.89	1.73	0.75	1.30	1.73
ADROIDES COLUMBIAE	31.67	14.43	0.46	0.00	0.00	0.00
COROPHIUM SP.	1.67	2.89	1.73	0.00	0.00	0.00
EUSIRIDAE	3.33	2.89	0.87	0.00	0.00	0.00
CERADOCUS SP.	3.33	5.77	1.73	0.01	0.02	1.73
MELITA CALIFORNICA	11.67	10.41	0.89	0.01	0.02	1.73
PHOTIS BREVIPES	1.67	2.89	1.73	0.00	0.00	0.00
ISCHYROCERUS ANGUIPES	1.67	2.89	1.73	0.00	0.00	0.00
ORCHOMENE CF. PINGUIS	3.33	5.77	1.73	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	5.00	8.66	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	3.33	5.77	1.73	0.00	0.00	0.00
PLEUSTES DEPRESSA	1.67	2.89	1.73	0.00	0.00	0.00
PLEUSIRUS SECORRUS	1.67	2.89	1.73	0.00	0.00	0.00
TIRON BIOCELLATA	3.33	2.89	0.87	0.00	0.00	0.00
HEPTACARPUS SP.	6.67	7.64	1.15	0.03	0.02	0.87
SCLEROCRANGON ALATA	1.67	2.89	1.73	0.08	0.14	1.73
UPOGEBIA PUGETTENSIS	1.67	2.89	1.73	0.51	0.89	1.73
PAGURUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
OREGONIA GRACILIS	1.67	2.89	1.73	0.01	0.02	1.73
PUGETTIA GRACILIS	10.00	10.00	1.00	0.33	0.49	1.50
CANCER SP.	6.67	2.89	0.43	0.06	0.03	0.51
FABIA SUBQUADRATA	3.33	2.89	0.87	0.09	0.10	1.02
OPHIUROIDEA	1.67	2.89	1.73	0.00	0.00	0.00
LEPTOSYNAPTA CLARKI	6.67	2.89	0.43	0.71	1.15	1.62

NSPEC	SDI	TMEANC	TMEANW
107.00	4.48	1159.99	389.38

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	1.00	2.24	2.24	0.00	0.00	0.00
POLYCHAETA	1.00	2.24	2.24	0.00	0.00	0.00
ONUPHIS SP.	1.00	2.24	2.24	0.00	0.00	0.00
THARYX SP.	1.00	2.24	2.24	0.00	0.00	0.00
PROTODRILUS FLABELLIG	1.00	2.24	2.24	0.00	0.00	0.00
OLIGOCHAETA	2.00	2.74	1.37	0.00	0.00	0.00
LACUNA VARIEGATA	12.00	10.37	0.86	0.12	0.13	1.05
PARAMOERA MOHRI	2.00	2.74	1.37	0.00	0.00	0.00
ORCHESTIA TRASKIANA	49.00	53.67	1.10	0.92	1.03	1.12
ORCHESTOIDEA RUGETTEN	7.00	13.04	1.86	0.29	0.59	2.06
RUGETTIA GRACILIS	1.00	2.24	2.24	0.04	0.08	2.24

NSPEC	SDI	TMEANC	TMEANW
11.00	2.29	78.00	1.37

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	14.00	23.29	1.66	0.01	0.02	2.24
NEMATODA	1.00	2.24	2.24	0.00	0.00	0.00
POLYCHAETA	4.00	8.94	2.24	0.01	0.02	2.24
HEMIPODUS BOREALIS	1.00	2.24	2.24	0.08	0.17	2.24
PROTODORVILLEA GRACIL	1.00	2.24	2.24	0.00	0.00	0.00
CAPITELLA CAPITATA	3.00	6.71	2.24	0.00	0.00	0.00
PROTODRILUS FLABELLIG	1.00	2.24	2.24	0.00	0.00	0.00
OLIGOCHAETA	5.00	8.66	1.73	0.00	0.00	0.00
LACUNA VARIEGATA	5.00	3.54	0.71	0.05	0.04	0.74
PARAMOERA MOHRI	387.00	851.39	2.20	0.76	1.69	2.24
DECAPODA BRACHYURA	2.00	4.47	2.24	0.02	0.04	2.24
EGG MASSES	2.00	4.47	2.24	0.01	0.02	2.24

NSPEC	SDI	TMEANC	TMEANW
12.00	0.61	426.00	0.93

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	66.00	72.32	1.10	0.06	0.08	1.24
HARMOTHOE IMBRICATA	1.00	2.24	2.24	0.04	0.08	2.24
PHYLLODOCE MACULATA	3.00	6.71	2.24	0.01	0.02	2.24
ETEONE SP.	1.00	2.24	2.24	0.01	0.02	2.24
MICROPODARKE DUBIA	1.00	2.24	2.24	0.00	0.00	0.00
TYPOSYLLIS SP.	2.00	2.74	1.37	0.00	0.00	0.00
NEREIS SP.	2.00	2.74	1.37	0.01	0.02	2.24
PLATYNEREIS BICANALIC	3.00	6.71	2.24	0.02	0.04	2.24
PROTODORVILLEA GRACIL	1.00	2.24	2.24	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	3.00	4.47	1.49	0.00	0.00	0.00
ARMANDIA BREVIS	11.00	10.84	0.99	0.02	0.02	1.37
CAPITELLA CAPITATA	11.00	10.84	0.99	0.02	0.02	1.37
THELEPUS SP.	1.00	2.24	2.24	0.02	0.04	2.24
PROTODRILUS FLABELLIG	312.00	393.46	1.26	0.38	0.43	1.11
SACCOCIRRUS EROTICUS	47.00	67.60	1.44	0.10	0.15	1.55
OLIGOCHAETA	1.00	2.24	2.24	0.00	0.00	0.00
LACUNA VARIEGATA	29.00	23.82	0.82	0.18	0.15	0.82
GNORIMOSPHAEROMA OREG	1.00	2.24	2.24	0.03	0.06	2.24
EXOSPHAEROMA AMPLICAU	1.00	2.24	2.24	0.00	0.00	0.00
IDOTEA SP.	1.00	2.24	2.24	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	4.00	8.94	2.24	0.00	0.00	0.00
PARAMOERA MOHRI	1279.00	2257.20	1.76	1.69	3.13	1.85
MELITA SP.	1.00	2.24	2.24	0.00	0.00	0.00
DECAPODA BRACHYURA	4.00	4.18	1.05	0.02	0.02	0.91
PUGETTIA GRACILIS	2.00	4.47	2.24	0.02	0.04	2.24
CANCER OREGONENSIS	1.00	2.24	2.24	0.06	0.13	2.24
EGG MASSES	2.00	4.47	2.24	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
27.00	1.77	1791.00	2.67

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MONOSTROMA FUSCUM	0.00	0.00	0.00	0.40	0.70	1.73
LAMINARIA SP.	0.00	0.00	0.00	8.73	15.12	1.73
LAMINARIA SACCHARINA	0.00	0.00	0.00	41.84	72.47	1.73
LAMINARIA FARLOWII	0.00	0.00	0.00	0.26	0.46	1.73
PLEUROPHYCUS GARDNERI	0.00	0.00	0.00	14.15	24.51	1.73
ALARIA MARGINATA	0.00	0.00	0.00	71.11	123.16	1.73
RHODOPHYCEAE	0.00	0.00	0.00	0.08	0.14	1.73
SARCODIOTHECA FURCATA	0.00	0.00	0.00	5.53	9.53	1.72
ANHFELTIA GIGARTINOID	0.00	0.00	0.00	0.03	0.06	1.73
IRIDAEA HETEROCARPA	0.00	0.00	0.00	0.85	1.47	1.73
RHODOGLOSSUM SP.	0.00	0.00	0.00	2.61	4.52	1.73
RHODOGLOSSUM ROSEUM	0.00	0.00	0.00	3.94	6.82	1.73
HALYMENIA SP.	0.00	0.00	0.00	0.23	0.39	1.73
CALLOPHYLLIS ENDENTAT	0.00	0.00	0.00	5.13	8.89	1.73
CONSTANTINEA SP.	0.00	0.00	0.00	0.03	0.05	1.73
FAUCHEA LACINIATA	0.00	0.00	0.00	6.52	11.29	1.73
ANTITHAMNION SP.	0.00	0.00	0.00	0.00	0.01	1.73
NEOPTILOTA SP.	0.00	0.00	0.00	0.09	0.16	1.73
CRYPTOPLEURA SP.	0.00	0.00	0.00	0.26	0.26	0.99
CRYPTOPLEURA VIOLACEA	0.00	0.00	0.00	3.43	5.94	1.73
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.48	0.64	1.34
HYMENENA FLABELLIGERA	0.00	0.00	0.00	2.67	4.01	1.50
BOTRYOGLOSSUM FARLOWI	0.00	0.00	0.00	3.68	3.97	1.08
STEROSIPHONIA BIPINNA	0.00	0.00	0.00	0.03	0.05	1.73
LAURENCIA SPECTABILIS	0.00	0.00	0.00	0.54	0.42	0.77
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	9.48	13.81	1.46
ODONTHALIA WASHINGTON	0.00	0.00	0.00	89.49	109.18	1.22
LOPHOSIPHONIA VILIUM	0.00	0.00	0.00	0.00	0.00	0.00
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	0.23	0.40	1.73
NEMERTEA	45.00	8.66	0.19	1.05	0.98	0.94
NEMATODA	1.67	2.89	1.73	0.00	0.00	0.00
HARMOTHOE IMBRICATA	1.67	2.89	1.73	0.05	0.08	1.73
PALEANOTUS BELLIS	1.67	2.89	1.73	0.00	0.00	0.00
PHYLLODOCE MACULATA	11.67	10.41	0.89	0.04	0.05	1.04
TYPOSYLLIS SP.	48.33	2.89	0.06	0.07	0.03	0.39
EXOGONE SP.	61.67	46.19	0.75	0.01	0.02	1.73
PLATYNEREIS BICANALIC	161.67	98.28	0.61	19.57	5.43	0.28
GLYCERA SP.	1.67	2.89	1.73	0.90	1.55	1.73
HEMIPODUS BOREALIS	1.67	2.89	1.73	0.05	0.08	1.73
GLYCINDE PICTA	26.67	5.77	0.22	0.13	0.11	0.87
ONUPHIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
LUMBRINERIS SP.	5.00	0.00	0.00	0.40	0.49	1.23
DORVILLEA SP.	8.33	14.43	1.73	0.06	0.11	1.73
PROTODORVILLEA GRACIL	36.67	63.51	1.73	0.08	0.14	1.73
NAINERIS UNCINATA	1.67	2.89	1.73	0.00	0.00	0.00
SCOLOPLOS PUGETTENSIS	6.67	7.64	1.15	0.01	0.02	1.73
ARICIDEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO CIRRIFERA	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	1.67	2.89	1.73	0.00	0.00	0.00
SPIO FILICORNIS	136.67	79.11	0.58	0.74	0.35	0.47
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	16.67	11.55	0.69	0.01	0.02	1.73
CIRRATULUS CIRRATUS	20.00	8.66	0.43	0.49	0.17	0.35
CHAETOZONE SP.	5.00	5.00	1.00	0.01	0.02	1.73
ARMANDIA BREVIS	198.33	52.93	0.29	0.83	0.23	0.28

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CAPITELLA CAPITATA	6.67	5.77	0.87	0.00	0.00	0.00
NOTOMASTUS TENUIS	3.33	5.77	1.73	0.06	0.11	1.73
MEDICMASTUS AMBISETA	1.67	2.89	1.73	0.00	0.00	0.00
MALDANIDAE	1.67	2.89	1.73	0.00	0.00	0.00
NICOMACHE PERSONATA	6.67	11.55	1.73	0.21	0.37	1.73
OWENIA FUSIFORMIS	13.33	2.89	0.22	0.06	0.05	0.87
TEREBELLIDAE	1.67	2.89	1.73	0.00	0.00	0.00
PISTA SP.	1.67	2.89	1.73	0.06	0.11	1.73
POLYCIRRUS KERGUELENS	1.67	2.89	1.73	0.03	0.05	1.73
SABELLIDAE	1.67	2.89	1.73	0.00	0.00	0.00
PSEUDOPOTAMILLA RENIF	3.33	5.77	1.73	0.00	0.00	0.00
OLIGOCHAETA	21.67	16.07	0.74	0.00	0.00	0.00
MARGARITES PUPILLUS	6.67	2.89	0.43	0.32	0.49	1.52
LACUNA SP.	8.33	7.64	0.92	0.03	0.02	0.87
ALVINIA SP.	16.67	14.43	0.87	0.03	0.02	0.87
AMPHISSA COLUMBIANA	3.33	2.89	0.87	0.03	0.02	0.87
MYSELLA TUMICA	10.00	5.00	0.50	0.03	0.02	0.87
MACOMA SP. JUV.	1.67	2.89	1.73	0.01	0.02	1.73
MACOMA NASUTA	1.67	2.89	1.73	0.05	0.08	1.73
PSEPHIDIA LORDI	1.67	2.89	1.73	0.01	0.02	1.73
TANAIDACEA SP. A	8.33	7.64	0.92	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	145.00	37.75	0.26	0.11	0.03	0.27
EXOSPHAEROMA AMPLICAU	3.33	2.89	0.87	0.00	0.00	0.00
IDOTEA ACULEATA	1.67	2.89	1.73	0.31	0.54	1.73
AMPHIPODA GAMMARIDEA	8.33	2.89	0.35	0.00	0.00	0.00
AMPITHOE SP.	3.33	2.89	0.87	0.13	0.23	1.73
AORIDES COLUMBIAE	20.00	5.00	0.25	0.00	0.00	0.00
ATYLUS SP.	3.33	5.77	1.73	0.03	0.05	1.73
PONTOGENEIA SP.	106.67	15.28	0.14	0.21	0.08	0.37
CERADOCUS SP.	6.67	11.55	1.73	0.01	0.02	1.73
MELITA SP.	43.33	70.77	1.63	0.28	0.48	1.73
HYALE SP.	1.67	2.89	1.73	0.00	0.00	0.00
PARALLORCHESTES OCHOT	1.67	2.89	1.73	0.03	0.05	1.73
PHOTIS SP.	81.67	53.46	0.65	0.14	0.09	0.64
LYSIANASSIDAE	15.00	25.98	1.73	0.03	0.05	1.73
CRCHOMENE CF. PINGUIS	1.67	2.89	1.73	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	18.33	10.41	0.57	0.00	0.00	0.00
PHOXOCEPHALIDAE	81.67	51.07	0.63	0.36	0.25	0.71
PLEUSIRUS SECORPUS	6.67	11.55	1.73	0.00	0.00	0.00
ORCHESTIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
HEPTACARPUS BREVIROST	5.00	8.66	1.73	0.76	1.32	1.73
UPOGEBIA PUGETTENSIS	1.67	2.89	1.73	4.73	8.19	1.73
PAGURUS SP. JUV.	45.00	25.98	0.58	0.34	0.36	1.04
PUGETTIA GRACILIS	45.00	31.22	0.69	4.41	4.44	1.01
CANCER OREGONENSIS	1.67	2.89	1.73	0.51	0.89	1.73
ECTOPROCTA	0.00	0.00	0.00	0.10	0.17	1.73
OPHIUROIDEA (AMPHIURI	1.67	2.89	1.73	0.38	0.66	1.73
HOLOTHUROIDEA	1.67	2.89	1.73	0.06	0.11	1.73
CUCUMARIA MINIATA	1.67	2.89	1.73	0.51	0.89	1.73
LEPTOSYNAPTA CLARKI	5.00	5.00	1.00	1.21	2.06	1.70
SAGITTA ELEGANS	1.67	2.89	1.73	0.00	0.00	0.00
GOBIESOX MEANDRICUS	1.67	2.89	1.73	0.26	0.46	1.73

NSPEC	SDI	TMEANC	TMEANW
107.00	4.18	1583.32	317.19

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MONOSTROMA FUSCUM	0.00	0.00	0.00	0.18	0.32	1.73
LAMINARIA SACCHARINA	0.00	0.00	0.00	57.91	50.43	0.87
LAMINARIA FARLOWII	0.00	0.00	0.00	2.92	5.06	1.73
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	4.72	4.05	0.86
STENOGRAMME INTERRUPT	0.00	0.00	0.00	0.13	0.23	1.73
CERAMIUM STRICTUM	0.00	0.00	0.00	0.05	0.09	1.73
NEOPTILOTA SP.	0.00	0.00	0.00	0.14	0.24	1.73
PTEROSIPHONIA BIPINNA	0.00	0.00	0.00	0.02	0.03	1.73
ODONTHALIA WASHINGTON	0.00	0.00	0.00	4.71	4.29	0.91
ZOSTERA MARINA	0.00	0.00	0.00	11.66	18.49	1.59
NEMERTEA	35.00	13.23	0.38	0.29	0.30	1.05
NEMATODA	6.67	5.77	0.87	0.00	0.00	0.00
HARMOTHOE IMBRICATA	5.00	5.00	1.00	0.00	0.00	0.00
PHOLOE MINUTA	3.33	5.77	1.73	0.01	0.02	1.73
GYPTIS BREVIPALPA	1.67	2.89	1.73	0.00	0.00	0.00
MICROPODARKE DUBIA	3.33	2.89	0.87	0.00	0.00	0.00
TYPOSYLLIS SP.	61.67	25.66	0.42	0.07	0.06	0.79
EXOGONE SP.	38.33	62.12	1.62	0.01	0.02	1.73
PLATYNEREIS BICANALIC	10.00	5.00	0.50	0.48	0.67	1.41
NEPHTYS LONGOSETOSA	6.67	2.89	0.43	0.31	0.25	0.82
GLYCERA SP.	3.33	5.77	1.73	0.42	0.72	1.73
GLYCINDE PICTA	1.67	2.89	1.73	0.01	0.02	1.73
PROTODORVILLEA GRACIL	71.67	35.12	0.49	0.03	0.02	0.87
SCOLOPLOS ARMIGER	1.67	2.89	1.73	0.00	0.00	0.00
SCOLOPLOS PUGETTENSIS	6.67	5.77	0.87	0.20	0.18	0.90
ARICIDEA SP.	10.00	5.00	0.50	0.00	0.00	0.00
PARAONIS LYRA	11.67	10.41	0.89	0.00	0.00	0.00
PRIONOSPIO CIRRIFERA	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	63.33	2.89	0.05	0.67	0.14	0.22
SPIO SP.	23.33	5.77	0.25	0.11	0.03	0.27
SPIO FILICORNIS	3.33	5.77	1.73	0.01	0.02	1.73
SPIOPHANES BOMBYX	25.00	0.00	0.00	0.16	0.13	0.80
MALACOCEROS GLUTAEUS	8.33	14.43	1.73	0.01	0.02	1.73
AONIDES SP.	1.67	2.89	1.73	0.00	0.00	0.00
MAGELONA PITELKAI	6.67	7.64	1.15	0.13	0.13	0.96
CHAETOZONE SP.	172.33	75.88	0.44	0.49	0.49	1.00
SCALIBREGMA INFLATUM	1.67	2.89	1.73	0.00	0.00	0.00
ARMANDIA BREVIS	8.33	10.41	1.25	0.03	0.02	0.87
TRAVISIA BREVIS	5.00	5.00	1.00	0.39	0.45	1.15
CAPITELLA CAPITATA	5.00	8.66	1.73	0.01	0.02	1.73
MEDIOMASTUS AMBISETA	61.67	64.29	1.04	0.21	0.15	0.73
MALDANIDAE	1.67	2.89	1.73	0.13	0.23	1.73
NICOMACHE PERSONATA	13.33	15.28	1.15	0.71	0.95	1.34
AXIOTHELLA RUBROCINCT	63.33	27.54	0.43	1.61	1.97	1.23
OWENIA FUSIFORMIS	33.33	25.66	0.77	0.74	0.96	1.29
MYRIOCHELE OCULATA	1.67	2.89	1.73	0.00	0.00	0.00
PECTINARIA GRANULATA	1.67	2.89	1.73	0.06	0.11	1.73
AMPHARETE ARCTICA	1.67	2.89	1.73	0.00	0.00	0.00
OLIGOCHAETA	116.67	76.54	0.66	0.03	0.02	0.87
LIRULARIA SP.	6.67	7.64	1.15	0.04	0.05	1.04
MARGARITES PUPILLUS	11.67	12.58	1.08	0.09	0.08	0.87
ALVINIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
HANLEYA HANLEYI	1.67	2.89	1.73	0.00	0.00	0.00
LEPIDOZONA MERTENSII	1.67	2.89	1.73	0.25	0.43	1.73
GLYCYMERIS SP.	1.67	2.89	1.73	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
MYSELLA TUMIDA	23.33	11.55	0.49	0.04	0.00	0.00
CYCLOCARDIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
CLINOCARDIUM CALIFORN	1.67	2.89	1.73	0.71	1.24	1.73
MACOMA SP. JUV.	3.33	2.89	0.87	0.04	0.05	1.04
MACOMA OBLIQUA	3.33	5.77	1.73	0.36	0.63	1.73
TELLINA SP.	1.67	2.89	1.73	0.03	0.05	1.73
SAXIDOMUS GIGANTEUS	1.67	2.89	1.73	0.36	0.63	1.73
PSEPHIDIA LORDI	115.00	57.66	0.50	1.39	1.09	0.78
MYA APENARIA	5.00	5.00	1.00	3.03	5.03	1.66
LEPTOCHELIA SAVIGNYI	68.33	45.09	0.66	0.03	0.05	1.73
EXOSPHAEROMA AMPLICAU	1.67	2.89	1.73	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	11.67	2.89	0.25	0.01	0.02	1.73
AMPELISCA SP.	1.67	2.89	1.73	0.01	0.02	1.73
AMPITHOE SP.	5.00	5.00	1.00	0.21	0.29	1.38
AOROIDES COLUMBIAE	15.00	8.66	0.58	0.00	0.00	0.00
COROPHIUM SP.	3.33	5.77	1.73	0.00	0.00	0.00
PONTOGENEIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
MELITA SP.	26.67	25.66	0.96	0.04	0.05	1.04
PHOTIS SP.	8.33	5.77	0.69	0.00	0.00	0.00
LYSIANASSIDAE	3.33	2.89	0.87	0.00	0.00	0.00
ORCHOMENE CF. PINGUIS	3.33	2.89	0.87	0.00	0.00	0.00
PHOXOCEPHALIDAE	20.00	20.00	1.00	0.01	0.02	1.73
CRANGON SP.	8.33	14.43	1.73	1.60	2.77	1.73
UPOGEBIA PUGETTENSIS	1.67	2.89	1.73	0.18	0.31	1.73
PAGURUS SP. JUV.	6.67	7.64	1.15	0.05	0.08	1.73
PUGETTIA GRACILIS	5.00	5.00	1.00	0.08	0.07	0.93
CANCER OREGONENSIS	6.67	7.64	1.15	0.71	1.03	1.44
FABIA SUBQUADRATA	1.67	2.89	1.73	0.10	0.17	1.73
PHORONOPSIS HARMERI	1.67	2.89	1.73	0.01	0.02	1.73
OPHIUROIDEA (AMPHIURI	1.67	2.89	1.73	0.00	0.00	0.00
LEPTOSYNAPTA CLARKI	8.33	7.64	0.92	0.44	0.61	1.38

NSPEC	SDI	TMEANC	TMEANW
86.00	4.26	1293.33	99.62

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
DESMARESTIA LIGULATA	0.00	0.00	0.00	12.17	14.80	1.22
RHODOPHYCEAE	0.00	0.00	0.00	0.11	0.20	1.73
PLOCAMIUM PACIFICUM	0.00	0.00	0.00	0.37	0.39	1.06
AHNFELTIA PLICATA	0.00	0.00	0.00	0.01	0.02	1.73
STENOGRAMME INTERRUPT	0.00	0.00	0.00	1.20	0.70	0.59
GYMNOGONGRUS SP.	0.00	0.00	0.00	0.16	0.27	1.73
CALLOPHYLLIS SP.	0.00	0.00	0.00	0.69	0.84	1.21
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	3.36	5.56	1.66
ERYTHROPHYLLUM SP.	0.00	0.00	0.00	0.77	1.33	1.73
CALLITHAMNION SP.	0.00	0.00	0.00	0.00	0.00	0.00
NIENBURGIA ANDERSONIA	0.00	0.00	0.00	2.62	3.43	1.31
PLEONOSPORIUM SP.	0.67	1.15	1.73	0.16	0.15	0.94
NEOPTILOTA SP.	0.00	0.00	0.00	17.28	23.12	1.34
CRYPTOPLEURA SP.	0.00	0.00	0.00	0.11	0.20	1.73
MEMBRANOPTERA MULTIRA	0.00	0.00	0.00	0.00	0.01	1.73
POLYNEURA LATISSIMA	0.00	0.00	0.00	1.52	1.01	0.66
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	0.17	0.29	1.73
PTEROCHONDRIA WOODII	0.00	0.00	0.00	0.04	0.07	1.73
NEMERTEA	23.33	7.64	0.33	0.11	0.03	0.27
NEMATODA	15.00	15.00	1.00	0.00	0.00	0.00
HARMOTHOE IMBRICATA	3.33	2.89	0.87	0.03	0.05	1.73
PHOLOE MINUTA	15.00	13.23	0.88	0.03	0.02	0.87
ETEONE LONGA	13.33	2.89	0.22	0.01	0.02	1.73
HESIONURA COINEAUI DI	1.67	2.89	1.73	0.00	0.00	0.00
MICROPODARKE DUBIA	5.00	8.66	1.73	0.00	0.00	0.00
PIONOSYLLIS URAGA	1.67	2.89	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	10.00	5.00	0.50	0.00	0.00	0.00
EXOGONE SP.	23.33	2.89	0.12	0.00	0.00	0.00
SPHAEROSYLLIS SP.	5.00	0.00	0.00	0.00	0.00	0.00
NEREIS SP.	1.67	2.89	1.73	0.01	0.02	1.73
NEPHTYS LONGOSETOSA	3.33	2.89	0.87	1.26	1.94	1.54
HEMIPODUS BOREALIS	3.33	2.89	0.87	0.05	0.08	1.73
GLYCINDE PICTA	3.33	5.77	1.73	0.03	0.05	1.73
PROTODORVILLEA GRACIL	10.00	5.00	0.50	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	25.00	8.66	0.35	0.12	0.06	0.47
SPIO SP.	53.33	29.30	0.55	0.26	0.08	0.29
SPIOPHANES BOMBYX	3.33	2.89	0.87	0.00	0.00	0.00
AONIDES SP.	6.67	2.89	0.43	0.00	0.00	0.00
SPIOCHAETOPTERUS COST	1.67	2.89	1.73	0.03	0.05	1.73
CHAETOZONE SP.	28.33	7.64	0.27	0.06	0.05	0.87
ACROCIRRUS SP.	1.67	2.89	1.73	0.00	0.00	0.00
SCALIBREGMA INFLATUM	11.67	16.07	1.38	0.18	0.16	0.87
ARMANDIA BREVIS	6.67	5.77	0.87	0.01	0.02	1.73
NOTOMASTUS GIGANTEUS	1.67	2.89	1.73	0.17	0.29	1.73
MEDIOMASTUS AMBISETA	70.00	17.32	0.25	0.07	0.03	0.39
NICOMACHE PERSONATA	5.00	5.00	1.00	0.26	0.42	1.60
PETALOPROCTUS SP.	1.67	2.89	1.73	0.03	0.05	1.73
AXIOTHELLA RUBROCINCT	16.67	17.56	1.05	0.13	0.11	0.87
OWENIA FUSIFORMIS	16.67	2.89	0.17	0.06	0.07	1.20
AMPHARETE ARCTICA	13.33	15.28	1.15	0.00	0.00	0.00
TEREBELLIDAE	1.67	2.89	1.73	0.03	0.05	1.73
POLYCIRRUS KERGUELENS	16.67	20.82	1.25	0.10	0.13	1.39
TEREBELLIDES STROEMI	1.67	2.89	1.73	0.06	0.11	1.73
CHONE INFUNDIBULIFORM	1.67	2.89	1.73	0.01	0.02	1.73
PSEUDOPOTAMILLA RENIF	1.67	2.89	1.73	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
OLIGOCHAETA	20.00	5.00	0.25	0.00	0.00	0.00
TECTURA POSACEA	5.00	8.66	1.73	0.01	0.02	1.73
LIRULARIA SP.	10.00	10.00	1.00	0.04	0.05	1.04
MARGARITES PUPILLUS	1.67	2.89	1.73	0.01	0.02	1.73
ALVINIA SP.	30.00	30.41	1.01	0.06	0.03	0.51
TRICHOTROPIS CANCELLA	1.67	2.89	1.73	0.01	0.02	1.73
CALYPTRAEA FASTIGIATA	40.00	18.03	0.45	2.17	1.40	0.65
NATICA CLAUSA	3.33	2.89	0.87	0.03	0.02	0.87
AMPHISSA COLUMBIANA	5.00	5.00	1.00	0.01	0.02	1.73
ODOSTOMIA SP.	5.00	5.00	1.00	0.04	0.05	1.04
TURBONILLA SP.	6.67	11.55	1.73	0.05	0.08	1.73
HANLEYA HANLEYI	16.67	10.41	0.62	0.23	0.24	1.07
CYANOPLAX DENTIENS	1.67	2.89	1.73	0.03	0.05	1.73
NUCULANA HAMATA	1.67	2.89	1.73	0.01	0.02	1.73
GLYCYMERIS SP.	3.33	2.89	0.87	0.00	0.00	0.00
MUSCULUS SP.	5.00	5.00	1.00	4.31	4.00	0.93
MODIOLUS RECTUS	8.33	2.89	0.35	118.05	93.08	0.79
MYSELLA TUMIDA	8.33	10.41	1.25	0.01	0.02	1.73
CYCLOCARDIA SP.	26.67	11.55	0.43	1.21	2.02	1.67
MACOMA SP. JUV.	18.33	7.64	0.42	0.09	0.05	0.56
MACOMA OBLIQUA	13.33	2.89	0.22	2.34	1.65	0.71
SAXIDOMUS GIGANTEUS	1.67	2.89	1.73	0.17	0.29	1.73
PSEPHIDIA LORDI	6.67	5.77	0.87	0.03	0.02	0.87
PROTOTHACA STAMINEA	1.67	2.89	1.73	28.70	49.70	1.73
TAPES JAPONICA	6.67	11.55	1.73	0.71	1.24	1.73
MYA ARENARIA	3.33	2.89	0.87	0.03	0.02	0.87
NEBALIA PUGETTENSIS	3.33	2.89	0.87	0.01	0.02	1.73
TANAIDACEA SP. A	1.67	2.89	1.73	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	46.67	2.89	0.06	0.01	0.02	1.73
IANIROPSIS KINCAIDI D	1.67	2.89	1.73	0.00	0.00	0.00
AMPELISCA SP.	5.00	5.00	1.00	0.01	0.02	1.73
AORIDES COLUMBIAE	5.00	5.00	1.00	0.00	0.00	0.00
PONTOGENEIA SP.	5.00	5.00	1.00	0.00	0.00	0.00
MELITA SP.	23.33	7.64	0.33	0.01	0.02	1.73
PHOTIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTOMEDEIA (CHEIRIME	1.67	2.89	1.73	0.00	0.00	0.00
ANONYX NUGAX	1.67	2.89	1.73	0.05	0.08	1.73
SYNCHELIDIUM SHOEMAKE	3.33	2.89	0.87	0.00	0.00	0.00
PHOXOCEPHALIDAE	5.00	5.00	1.00	0.05	0.08	1.73
UPOGEBIA PUGETTENSIS	8.33	7.64	0.92	0.44	0.38	0.87
PAGURUS SP. JUV.	1.67	2.89	1.73	0.01	0.02	1.73
PUGETTIA GRACILIS	3.33	2.89	0.87	0.04	0.05	1.04
CANCER OREGONENSIS	1.67	2.89	1.73	2.83	4.91	1.73
FABIA SUBQUADRATA	1.67	2.89	1.73	0.17	0.29	1.73
OPHIUROIDEA (AMPHIURI	6.67	7.64	1.15	0.06	0.07	1.20
LEPTOSYNAPTA CLARKI	11.67	11.55	0.99	1.01	1.08	1.07

NSPEC	SDI	TMEANC	TMEANW
101.00	4.71	817.33	206.93

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	8.00	11.51	1.44	0.00	0.00	0.00
LACUNA SP.	3.00	6.71	2.24	0.02	0.04	2.24
PARAMOERA MOHRI	66.00	52.13	0.79	0.09	0.09	0.94

NSPEC	SDI	TMEANC	TMEANW
3.00	1.68	77.00	0.11

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	36.67	37.53	1.02	0.00	0.00	0.00
NEMATODA	3.33	5.77	1.73	0.00	0.00	0.00
CAPITELLIDAE	1.67	2.89	1.73	0.01	0.02	1.73
LACUNA SP.	5.00	5.00	1.00	0.04	0.05	1.04
AMPHISSA COLUMBIANA	1.67	2.89	1.73	0.21	0.37	1.73
PARAMOERA MOHRI	2783.33	4529.08	1.63	5.21	8.73	1.68

NSPEC	SDI	TMEANC	TMEANW
6.00	0.28	2831.67	5.48

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAP
		COUNT			WEIGHT	
NEMERTEA	1.67	2.89	1.73	0.00	0.00	0.00
LACUNA SP.	3.33	5.77	1.73	0.05	0.08	1.73
PARAMOERA MOHRI	291.67	453.47	1.55	0.56	0.94	1.67

NSPEC	SDI	TMEANC	TMEANW
3.00	0.38	296.67	0.61

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
FRAGMENT	1.00	2.24	2.24	0.00	0.00	0.00
NEMERTEA	11.00	9.62	0.87	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	1.00	2.24	2.24	0.00	0.00	0.00
LACUNA SP.	2.00	2.74	1.37	0.00	0.00	0.00
PARAMOERA MOHRI	45.00	18.71	0.42	0.05	0.05	1.00
HYALE SP.	2.00	4.47	2.24	0.01	0.02	2.24

NSPEC	SDI	TMEANC	TMEANW
6.00	2.25	62.00	0.06

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	38.33	28.87	0.75	0.01	0.02	1.73
POLYCHAETA FRAGMENTS	1.67	2.89	1.73	0.00	0.00	0.0_
ONUPHIS SP.	1.67	2.89	1.73	0.01	0.02	1.73
PARAMOERA MOHRI	140.00	157.40	1.12	0.24	0.21	0.87

NSPEC	SDI	TMEANC	TMEANW
4.00	1.29	181.67	0.27

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	20.00	18.03	0.90	0.00	0.00	0.00
PROTODORVILLEA GRACILI	1.67	2.89	1.73	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	3.33	2.89	0.87	0.00	0.00	0.00
LACUNA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PARAMOERA MOHRI	1875.00	2732.35	1.46	3.20	4.70	1.47

NSPEC	SDI	TMEANC	TMEANW
5.00	0.43	1901.67	3.20

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	34.00	56.94	1.67	0.00	0.00	0.00
NEMATODA	1.00	2.24	2.24	0.00	0.00	0.00
PROTODORVILLEA GRACIL	1.00	2.24	2.24	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	1.00	2.24	2.24	0.00	0.00	0.00
PROTODRILUS FLABELLIG	1.00	2.24	2.24	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	18.00	18.91	1.05	0.07	0.02	1.37
LACUNA SP.	1.00	2.24	2.24	0.00	0.00	0.00
PARAMOERA MOHRI	1419.00	2309.01	1.63	2.70	4.68	1.73

NSPEC	SDI	TMEANC	TMEANW
8.00	0.98	1476.00	2.72

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
NEMERTEA	296.67	397.94	1.34	0.03	0.02	0.87
ONUPHIDAE	1.67	2.89	1.73	0.00	0.00	0.00
OORVILLEA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACIL	3.33	2.89	0.87	0.00	0.00	0.00
ARMANDIA BREVIS	3.33	2.89	0.87	0.00	0.00	0.00
SACCOCIRRUS EROTICUS	19.33	15.28	0.83	0.03	0.02	0.87
LACUNA SP.	11.67	10.41	0.89	0.11	0.13	1.12
PARAMOERA MOHRI	2085.00	2478.86	1.19	3.42	3.79	1.11
MELITA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PARATHEMISTO ABYSSORU	1.67	2.89	1.73	0.00	0.00	0.00

NSPEC	SDI	TMEANC	TMEANW
10.00	1.03	2425.00	3.58

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
FECAL PELLETS	90.00	69.46	0.77	0.36	0.42	1.18
BACILLARIOPHYTA	0.00	0.00	0.00	0.00	0.00	0.00
MONOSTROMA SP.	0.00	0.00	0.00	9.12	7.06	0.77
ULVA SP.	0.00	0.00	0.00	1.95	3.39	1.73
PTERYGOPHORA CALIFORN	0.00	0.00	0.00	204.68	354.52	1.73
DESMARESTIA LIGULATA	0.00	0.00	0.00	0.30	0.53	1.73
DESMARESTIA VIRIDIS	0.00	0.00	0.00	0.00	0.00	0.00
PLOCAMIUM VIOLACEUM	0.00	0.00	0.00	0.00	0.00	0.00
AHNFELTIA PLICATA	0.00	0.00	0.00	0.03	0.03	0.94
GIGARTINA PAPILLATA	0.00	0.00	0.00	0.46	0.80	1.73
IRIDAEA SP.	0.00	0.00	0.00	15.70	8.87	0.57
RHODYMENIA PALMATA	0.00	0.00	0.00	81.64	37.84	0.46
ANTITHAMNION SP.	0.00	0.00	0.00	1.22	0.80	0.66
MICROCLADIA COULTERI	0.00	0.00	0.00	0.00	0.00	0.00
PLATYTHAMNION SP.	0.00	0.00	0.00	0.00	0.01	1.73
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.68	0.93	1.37
POLYSIPHONIA PACIFICA	0.00	0.00	0.00	0.23	0.40	1.73
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	0.15	0.17	1.19
LAURENCIA SPECTABILIS	0.00	0.00	0.00	0.01	0.01	1.73
CORONTHALIA FLOCCOSA	0.00	0.00	0.00	5.07	4.50	0.89
CORONTHALIA WASHINGTON	0.00	0.00	0.00	6.28	10.87	1.73
ZOSTERA MARINA	0.00	0.00	0.00	0.24	0.42	1.73
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	0.01	0.02	1.73
NEMERTEA	23.33	18.03	0.81	0.24	0.30	1.27
PARANEMERTES PEREGRIN	1.67	2.89	1.73	0.10	0.17	1.73
NEMATODA	1.67	2.89	1.73	0.00	0.00	0.00
HARMOTHOE IMBRICATA	3.33	2.89	0.87	0.03	0.05	1.73
PHYLLODOCE SP.	3.33	2.89	0.87	0.08	0.07	0.93
HESIONIDAE	1.67	2.89	1.73	0.00	0.00	0.00
MICROPODARKE DUPIA	6.67	11.55	1.73	0.00	0.00	0.00
PIONOSYLLIS UNAGA	1.67	2.89	1.73	0.00	0.00	0.00
TYPOSYLLIS SP.	13.33	23.09	1.26	0.00	0.00	0.00
EXOGONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	5.00	5.00	1.00	0.71	0.95	1.34
NEREIS VEXILLOSA	1.67	2.89	1.73	2.78	4.82	1.73
PLATYNEREIS BICANALIC	36.67	41.93	1.14	5.04	3.87	0.77
HEMIPODUS BOREALIS	6.67	2.89	0.43	0.14	0.15	1.01
GLYCINDE PICTA	35.00	21.79	0.62	0.17	0.19	1.09
LUMBRINERIS SP.	5.00	8.66	1.73	0.01	0.02	1.73
DORVILLEA SP.	3.33	5.77	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACIL	5.00	5.00	1.00	0.00	0.00	0.00
SCOLOPLOS PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
ARICIDEA LOPEZI	1.67	2.89	1.73	0.00	0.00	0.00
POLYDORA SOCIALIS	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO CIRRIFERA	1.67	2.89	1.73	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	6.67	7.64	1.15	0.06	0.11	1.73
SPIO FILICORNIS	10.00	13.23	1.32	0.03	0.05	1.73
SPIOPHANES BOMBYX	1.67	2.89	1.73	0.00	0.00	0.00
MALACOCEROS GLUTAEUS	1.67	2.89	1.73	0.00	0.00	0.00
CIRRATULUS CIRRATUS	1.67	2.89	1.73	0.13	0.23	1.73
CHAETOZONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
ARMANDIA BREVIS	155.00	213.37	1.38	0.59	0.75	1.27
CAPITELLA CAPITATA	70.00	52.20	0.75	0.06	0.07	1.20
OWENIA FUSIFORMIS	3.33	2.89	0.87	0.00	0.00	0.00
AMPHISAMYTHA BIOCULAT	1.67	2.89	1.73	0.01	0.02	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
TEREBELLIDAE	1.67	2.89	1.73	0.00	0.00	0.00
FABRICIINAE	3.33	5.77	1.73	0.00	0.00	0.00
SACCOCIRRUS PROTICUS	1.67	2.89	1.73	0.00	0.00	0.00
ACMAEIDAE JUV. <4MM	3.33	5.77	1.73	0.05	0.08	1.73
MARGARITES PUPILLUS	3.33	5.77	1.73	0.01	0.02	1.73
LACUNA SP.	43.33	32.15	0.74	0.89	0.87	0.97
ALVINIA SP.	3.33	5.77	1.73	0.01	0.02	1.73
CYLICHNA SP.	1.67	2.89	1.73	0.01	0.02	1.73
LEPTOCHELIA SAVIGNYI	1.67	2.89	1.73	0.00	0.00	0.00
GNORIMOSPHAEROMA OREG	3.33	5.77	1.73	0.03	0.05	1.73
EXOSPHAEROMA AMPLICAU	1.67	2.89	1.73	0.00	0.00	0.00
MUNNA SP.	1.67	2.89	1.73	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	5.00	8.66	1.73	0.00	0.00	0.00
AORIDES COLUMBIAE	6.67	7.64	1.15	0.00	0.00	0.00
PONTOGENEIA SP.	48.33	53.93	1.12	0.11	0.08	0.72
AMPHIPODA GAMMARIDAE	1.67	2.89	1.73	0.01	0.02	1.73
MELITA SP.	51.67	55.30	1.07	0.08	0.10	1.31
PHOTIS SP.	5.00	8.66	1.73	0.00	0.00	0.00
ISCHYROCERUS SP. B	5.00	8.66	1.73	0.00	0.00	0.00
ORCHOMENE CF. PINGUIS	25.00	17.32	0.69	0.04	0.00	0.00
SYNCHELIDIUM SHOEMAKE	48.33	17.56	0.36	0.01	0.02	1.73
PHOXOCEPHALIDAE	6.67	7.64	1.15	0.00	0.00	0.00
PLEUSTES DEPRESSA	1.67	2.89	1.73	0.01	0.02	1.73
PLEUSIRUS SECORPUS	8.33	10.41	1.25	0.00	0.00	0.00
HEPTACARPUS BREVIROST	1.67	2.89	1.73	0.10	0.17	1.73
PAGURUS SP.	1.67	2.89	1.73	0.01	0.02	1.73
PUGETTIA GRACILIS	18.33	5.77	0.31	1.12	0.45	0.40
CANCER OREGONENSIS	5.00	5.00	1.00	4.66	7.82	1.68
ECTOPROCTA	0.00	0.00	0.00	0.08	0.14	1.73

NSPEC	SDI	TMEANC	TMEANW
84.00	3.77	821.66	345.57

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
FECAL PELLETS	3.33	5.77	1.73	0.00	0.00	0.00
MONOSTROMA SP.	0.00	0.00	0.00	13.06	2.86	0.22
ULVA SP.	0.00	0.00	0.00	4.94	6.88	1.39
SPONGOMORPHA COALITA	0.00	0.00	0.00	0.00	0.00	0.00
AHNFELTIA PLICATA	0.00	0.00	0.00	0.03	0.05	1.73
STENOGRAMME INTERRUPT	0.00	0.00	0.00	0.09	0.16	1.73
IRIDAEA SP.	0.00	0.00	0.00	8.89	14.31	1.61
RHODOGLOSSUM SP.	0.00	0.00	0.00	1.37	2.38	1.73
RHODYMENIA PALMATA	0.00	0.00	0.00	59.84	33.42	0.56
ANTITHAMNION SP.	0.00	0.00	0.00	0.00	0.00	0.00
MICROCLADIA COULTERI	0.00	0.00	0.00	0.00	0.01	1.73
PLATYTHAMNION SP.	0.00	0.00	0.00	0.00	0.00	0.00
CRYPTOPLEURA SP.	0.00	0.00	0.00	0.03	0.05	1.73
POLYSIPHONIA HENDRYI	0.00	0.00	0.00	0.20	0.31	1.52
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	3.42	5.93	1.73
ODONTHALIA WASHINGTON	0.00	0.00	0.00	3.19	4.99	1.56
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	0.49	0.54	1.10
NEMERTEA	35.00	21.79	0.62	1.09	1.61	1.47
PARANEMERTES PEREGRIN	1.67	2.89	1.73	0.03	0.05	1.73
PHYLLODOCE SP.	1.67	2.89	1.73	0.00	0.00	0.00
ETEONE LONGA	1.67	2.89	1.73	0.08	0.14	1.73
MICRODORKE DUBIA	5.00	8.66	1.73	0.01	0.02	1.73
PIONOSYLLIS URAGA	3.33	5.77	1.73	0.00	0.00	0.00
EXOGONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	1.67	2.89	1.73	2.55	4.41	1.73
NEREIS VEXILLOSA	1.67	2.89	1.73	5.08	8.80	1.73
PLATYNEREIS BICANALIC	3.33	2.89	0.87	0.01	0.02	1.73
HEMIPODUS BOREALIS	1.67	2.89	1.73	0.11	0.20	1.73
GLYCINDE PICTA	28.33	10.41	0.37	0.23	0.03	0.15
ONUPHIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
LUMBRINERIS SP.	1.67	2.89	1.73	0.58	1.01	1.73
PROTODORVILLEA GRACIL	5.00	5.00	1.00	0.00	0.00	0.00
SCOLOPLOS ARMIGER	3.33	5.77	1.73	0.11	0.20	1.73
PRIONOSPIO STEENSTRUP	3.33	5.77	1.73	0.03	0.05	1.73
SPIO SP.	1.67	2.89	1.73	0.00	0.00	0.00
SPIOPHANES BOMBYX	3.33	5.77	1.73	0.00	0.00	0.00
SPIOPHANES CIRRATA	1.67	2.89	1.73	0.00	0.00	0.00
CHAETOZONE SP.	1.67	2.89	1.73	0.00	0.00	0.00
ARMANDIA BREVIS	66.67	60.07	0.90	0.81	1.05	1.29
CAPITELLA CAPITATA	5.00	5.00	1.00	0.00	0.00	0.00
MALDANIDAE	1.67	2.89	1.73	0.00	0.00	0.00
OWENIA FUSIFORMIS	1.67	2.89	1.73	0.00	0.00	0.00
OLIGOCHAETA	5.00	8.66	1.73	0.00	0.00	0.00
MARGARITES PUPILLUS	1.67	2.89	1.73	0.01	0.02	1.73
LACUNA SP.	51.67	76.87	1.49	0.39	0.61	1.54
NUCELLA LAMELLOSA	1.67	2.89	1.73	0.18	0.31	1.73
NEBALIA PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
LAMPROPS SP.	1.67	2.89	1.73	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	1.67	2.89	1.73	0.00	0.00	0.00
EXOSPHAEROMA AMPLICAU	5.00	5.00	1.00	0.01	0.02	1.73
ADROIDES COLUMBIAE	3.33	5.77	1.73	0.00	0.00	0.00
ATYLUS SP.	5.00	0.00	0.00	0.04	0.00	0.00
PONTOGENEIA SP.	28.33	15.28	0.54	0.06	0.03	0.51
MEGALUROPUS SP.	8.33	5.77	0.69	0.01	0.02	1.73
MELITA SP.	1.67	2.89	1.73	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PHOTIS SP.	3.33	5.77	1.73	0.00	0.00	0.00
ISCHYROCERUS SP. B	1.67	2.89	1.73	0.00	0.00	0.00
ISCHYROCERUS ANGUIPES	1.67	2.89	1.73	0.00	0.00	0.00
ORCHOMENE CF. PINGUIS	6.67	7.64	1.15	0.01	0.02	1.73
SYNCHELIDIUM SHOEMAKE	55.00	40.00	0.73	0.03	0.02	0.87
PHOXOCEPHALIDAE	18.33	10.41	0.57	0.04	0.05	1.04
PLEUSIRUS SECORRUS	5.00	5.00	1.00	0.00	0.00	0.00
PAGURUS SP.	8.33	5.77	0.69	1.63	2.70	1.66
PUGETTIA GRACILIS	28.33	20.21	0.71	1.51	1.51	1.00
CANCER OREGONENSIS	3.33	2.89	0.87	0.61	0.94	1.54
EGG MASSES	3.33	5.77	1.73	0.05	0.08	1.73

NSPEC	SDI	TMEANC	TMEANW
66.00	3.73	440.00	110.89

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	3.43	2.06	0.60
STENOGRAMME INTERRUPT	0.00	0.00	0.00	0.00	0.00	0.00
CERAMIUM STRICTUM	0.00	0.00	0.00	0.00	0.01	1.73
PLATYTHAMNION SP.	0.00	0.00	0.00	0.10	0.18	1.73
HOLLENBERGIA SP.	0.00	0.00	0.00	0.00	0.00	0.00
CRYPTOPLEURA SP.	0.00	0.00	0.00	0.02	0.03	1.73
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.08	0.14	1.73
PTEROSIPHONIA BIPINNA	0.00	0.00	0.00	0.00	0.00	0.00
ODONTHALIA FLOCCOSA	0.00	0.00	0.00	0.00	0.00	0.00
ZOSTERA MARINA	0.00	0.00	0.00	19.41	33.62	1.73
PHYLLOSPADIX SCOULERI	0.00	0.00	0.00	0.08	0.13	1.73
NEMERTEA	58.33	17.56	0.30	0.79	1.06	1.36
NEMATODA	8.33	7.64	0.92	0.00	0.00	0.00
POLYNOIDAE	1.67	2.89	1.73	0.00	0.00	0.00
HARMOTHOE IMBRICATA	1.67	2.89	1.73	0.00	0.00	0.00
ETEONE LONGA	3.33	2.89	0.87	0.00	0.00	0.00
HESIONIDAE	15.00	25.98	1.73	0.00	0.00	0.00
MICROPODARKE DUBIA	5.00	5.00	1.00	0.00	0.00	0.00
TYPOSYLLIS SP.	35.00	22.91	0.65	0.01	0.02	1.73
EXOGONE SP.	25.00	30.41	1.22	0.00	0.00	0.00
SPHAEROSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	10.00	0.00	0.00	0.09	0.05	0.56
PLATYNEREIS BICANALIC	6.67	2.89	0.43	0.16	0.11	0.68
NEPHTYS LONGOSETOSA	1.67	2.89	1.73	0.11	0.20	1.73
HEMIPODUS BOREALIS	1.67	2.89	1.73	0.00	0.00	0.00
GLYCINDE PICTA	6.67	2.89	0.43	0.00	0.00	0.00
PROTODORVILLEA GRACIL	58.33	42.52	0.73	0.01	0.02	1.73
SCOLOPLOS ARMIGER	5.00	8.66	1.73	0.01	0.02	1.73
SCOLOPLOS PUGETTENSIS	8.33	7.64	0.92	0.33	0.45	1.38
ARICIDEA LOPEZI	13.33	12.58	0.94	0.00	0.00	0.00
PARAONELLA PLATYBRANC	3.33	2.89	0.87	0.00	0.00	0.00
PRIONOSPIO STEENSTRUP	28.33	20.82	0.73	0.35	0.27	0.77
SPIO SP.	3.33	5.77	1.73	0.01	0.02	1.73
SPIOPHANES BOMBYX	21.67	11.55	0.53	0.05	0.08	1.73
SPIOPHANES CIRRATA	13.33	18.93	1.42	0.01	0.02	1.73
MALACOCEROS GLUTAEUS	1.67	2.89	1.73	0.00	0.00	0.00
CHAETOZONE SP.	36.67	20.21	0.55	0.07	0.03	0.39
SCALIBREGMA INFLATUM	1.67	2.89	1.73	0.08	0.14	1.73
ARMANDIA BREVIS	6.67	2.89	0.43	0.03	0.02	0.87
TRAVISIA BREVIS	1.67	2.89	1.73	0.13	0.23	1.73
CAPITELLA CAPITATA	1.67	2.89	1.73	0.00	0.00	0.00
MEDICOMASTUS AMBISETA	70.00	10.00	0.14	0.21	0.11	0.50
MALDANIDAE	60.00	21.79	0.36	0.42	0.32	0.76
NICOMACHE PERSONATA	51.67	63.71	1.23	1.66	2.30	1.39
AXIOTHELLA RUBROCINCT	3.33	5.77	1.73	0.48	0.83	1.73
OWENIA FUSIFORMIS	31.67	7.64	0.24	0.36	0.19	0.54
PECTINARIA GRANULATA	1.67	2.89	1.73	0.31	0.54	1.73
TEREBELLIDAE	3.33	5.77	1.73	0.00	0.00	0.00
OLIGOCHAETA	115.00	72.11	0.63	0.06	0.03	0.51
TECTURA ROSACEA	1.67	2.89	1.73	0.05	0.08	1.73
MARGARITES PUPILLUS	21.67	22.55	1.04	0.38	0.34	0.89
MARGARITES LIRIATUS	5.00	8.66	1.73	0.05	0.09	1.73
LACUNA SP.	1.67	2.89	1.73	0.01	0.02	1.73
CALYPTRAEA FASTIGIATA	1.67	2.89	1.73	0.05	0.08	1.73
TURBONILLA SP.	3.33	5.77	1.73	0.06	0.11	1.73

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
GLYCYMERIS SUBOBSOLET	1.67	2.89	1.73	0.00	0.00	0.00
MYSELLA TUMIDA	16.67	7.64	0.46	0.03	0.02	0.87
CLINOCARDIUM CILIATUM	1.67	2.89	1.73	0.17	0.29	1.73
MACOMA SP.	6.67	7.64	1.15	0.79	1.34	1.69
SAXIDOMUS GIGANTEUS	1.67	2.89	1.73	2.18	3.78	1.73
PSEPHIDIA LORDI	48.33	24.66	0.51	0.39	0.22	0.56
NEBALIA PUGETTENSIS	15.00	25.98	1.73	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	93.33	106.93	1.15	0.03	0.02	0.87
PARANTHURA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PARANTHURA ELEGANS	1.67	2.89	1.73	0.00	0.00	0.00
CRUSTACEA (ISOPODA)	35.00	60.62	1.73	0.00	0.00	0.00
IANIROPSIS SP.	3.33	5.77	1.73	0.00	0.00	0.00
CORDPHIUM SP.	1.67	2.89	1.73	0.00	0.00	0.00
PONTOGENEIA SP.	1.67	2.89	1.73	0.00	0.00	0.00
MELITA SP.	23.33	25.17	1.08	0.01	0.02	1.73
PHOTIS SP.	10.00	8.66	0.87	0.01	0.02	1.73
PROTOMEDEIA (CHEIRIME	1.67	2.89	1.73	0.00	0.00	0.00
LYSIANASSIDAE	1.67	2.89	1.73	0.00	0.00	0.00
ORCHOMENE CF. PINGUIS	5.00	5.00	1.00	0.00	0.00	0.00
WESTWOODILLA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	6.67	2.89	0.43	0.00	0.00	0.00
HEPTACARPUS BREVIROST	1.67	2.89	1.73	0.05	0.08	1.73
CRANGON ALASKENSIS	1.67	2.89	1.73	1.18	2.04	1.73
PAGURUS SP.	1.67	2.89	1.73	0.01	0.02	1.73
CANCER OREGONENSIS	8.33	5.77	0.69	0.78	0.50	0.64
EUPENTACTA QUINQUESEM	1.67	2.89	1.73	0.13	0.23	1.73
LEPTOSYNAPTA CLARKI	8.33	7.64	0.92	0.18	0.23	1.32
HOLOTHUROIDEA (MOLPAD	1.67	2.89	1.73	0.03	0.05	1.73

NSPEC	SDI	TMEANC	TMEANW
83.00	4.24	1063.33	35.44

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
ULVA SP.	0.00	0.00	0.00	0.00	0.01	1.73
NEMAGARDHIELLA BAILEY	0.00	0.00	0.00	0.89	1.54	1.73
GRACILARIOPSIS SJOEST	0.00	0.00	0.00	7.06	7.98	1.13
AHNFELTIA PLICATA	0.00	0.00	0.00	0.06	0.10	1.73
STENOGRAMME INTERRUPT	0.00	0.00	0.00	0.20	0.25	1.22
GRATELOUPIA SP.	0.00	0.00	0.00	0.13	0.22	1.73
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	0.32	0.56	1.73
CALLOPHYLLIS PINNATA	0.00	0.00	0.00	0.08	0.13	1.73
CONSTANTINEA SIMPLEX	0.00	0.00	0.00	9.17	15.89	1.73
ANTITHAMNION SP.	0.00	0.00	0.00	0.00	0.01	1.73
CERAMIUM STRICTUM	0.00	0.00	0.00	0.01	0.01	0.87
MICROCLADIA BOREALIS	0.00	0.00	0.00	0.00	0.00	0.00
PLEONOSPORIUM SP.	0.00	0.00	0.00	0.00	0.01	1.73
PLATYTHAMNION SP.	0.00	0.00	0.00	0.00	0.00	0.00
NEOPTILOTA SP.	0.00	0.00	0.00	0.34	0.21	0.62
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.14	0.24	1.73
PTEROSIPHONIA BIPINNA	0.00	0.00	0.00	0.01	0.02	1.15
RODNTHALIA FLOCCOSA	0.00	0.00	0.00	3.24	5.60	1.73
ZOSTERA MARINA	0.00	0.00	0.00	5.04	7.87	1.56
NEMERTEA	90.00	45.83	0.51	0.43	0.31	0.73
NEMATODA	65.00	27.84	0.43	0.01	0.02	1.73
HARMOTHOE IMBRICATA	1.67	2.89	1.73	0.00	0.00	0.00
PHOLOE MINUTA	1.67	2.89	1.73	0.00	0.00	0.00
ETEONE LONGA	1.67	2.89	1.73	0.00	0.00	0.00
HESIONURA COINEAUI OI	5.00	5.00	1.00	0.00	0.00	0.00
MICROPODARKE DUBIA	6.67	5.77	0.87	0.00	0.00	0.00
PIONOSYLLIS UNAGA	5.00	0.00	0.00	0.00	0.00	0.00
TYPOSYLLIS SP.	25.00	10.00	0.40	0.01	0.02	1.73
EXOGONE SP.	33.33	20.87	0.37	0.00	0.00	0.00
SPHAEROSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	10.00	5.00	0.50	0.03	0.02	0.87
PLATYNEREIS BICANALIC	16.67	17.56	1.05	1.19	1.70	1.42
NEPHTYS CAECA	1.67	2.89	1.73	0.11	0.20	1.73
NEPHTYS LONGOSETOSA	3.33	2.89	0.87	0.10	0.17	1.73
GLYCERA SP.	3.33	2.89	0.87	0.26	0.34	1.29
HEMIPODUS BOREALIS	5.00	5.00	1.00	0.01	0.02	1.73
GLYCINDE PICTA	1.67	2.89	1.73	0.05	0.08	1.73
ONUPHIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTODORVILLEA GRACIL	86.67	90.05	1.04	0.03	0.05	1.73
SCOLOPLOS PUGETTENSIS	3.33	2.89	0.87	0.09	0.10	1.02
PRIONOSPIO STEENSTRUP	6.67	2.89	0.43	0.26	0.42	1.60
SPIO SP.	1.67	2.89	1.73	0.01	0.02	1.73
SPIOPHANES BOMBYX	196.67	95.04	0.48	0.36	0.06	0.16
SPIOPHANES CIRRATA	1.67	2.89	1.73	0.00	0.00	0.00
ADNIDES SP.	5.00	5.00	1.00	0.00	0.00	0.00
MAGELONA PITELKAI	1.67	2.89	1.73	0.03	0.05	1.73
CHAETOZONE SP.	16.67	2.89	0.17	0.04	0.00	0.00
SCALIBREGMA INFLATUM	1.67	2.89	1.73	0.00	0.00	0.00
AMMOTRYPANE SP.	1.67	2.89	1.73	0.03	0.05	1.73
ARMANDIA BREVIS	3.33	5.77	1.73	0.00	0.00	0.00
TRAVISIA BREVIS	1.67	2.89	1.73	0.00	0.00	0.00
NOTOMASTUS GIGANTEUS	3.33	5.77	1.73	0.05	0.08	1.73
MEDIOMASTUS AMBISETA	80.00	68.74	0.86	0.13	0.11	0.87
MALDANIDAE	46.67	80.83	1.73	0.23	0.32	1.40
NICOMACHE PERSONATA	15.00	21.79	1.45	0.67	0.88	1.31

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
AXIOTHELLA RUBROCINCT	20.00	26.46	1.32	0.04	0.05	1.04
EUCLYMENE CF. ZONALIS	5.00	8.66	1.73	0.01	0.02	1.73
OWENIA FUSIFORMIS	48.33	12.59	0.26	0.61	0.32	0.52
PECTINARIA GRANULATA	1.67	2.89	1.73	0.05	0.08	1.73
TEREBELLIDAE	20.00	10.00	0.50	0.13	0.11	0.87
POLYGORDIUS SP.	16.67	7.64	0.46	0.03	0.02	0.97
OLIGOCHAETA	343.33	102.75	0.30	0.07	0.03	0.39
MARGARITES PUPILLUS	30.00	47.70	1.59	0.63	0.58	0.92
CALYPTRAEA FASTIGIATA	3.33	5.77	1.73	0.11	0.20	1.73
CLYCYMERIS SUBOBSOLET	250.00	141.77	0.57	0.96	0.76	0.79
MYSELLA TUMIDA	58.33	27.54	0.47	0.09	0.05	0.56
CLINOCARDIUM CILIATUM	1.67	2.89	1.73	0.42	0.72	1.73
MACOMA SP.	6.67	5.77	0.87	0.13	0.13	0.96
MACOMA OBLIQUA	15.00	21.79	1.45	4.75	7.38	1.55
TELLINA SP.	3.33	2.89	0.87	0.08	0.14	1.73
PSEPHIDIA LORDI	88.33	66.58	0.75	0.64	0.48	0.75
TANAIDACEA SP. A	1.67	2.89	1.73	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	98.33	108.90	1.11	0.05	0.08	1.73
PARANTHURA ELEGANS	1.67	2.89	1.73	0.00	0.00	0.00
AMPHIPODA GAMMARIDEA	1.67	2.89	1.73	0.00	0.00	0.00
CORPHIUM SP.	5.00	5.00	1.00	0.00	0.00	0.00
MELITA SP.	1.67	2.89	1.73	0.00	0.00	0.00
PHOTIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
PROTOMEDEIA (CHEIRIME	3.33	2.89	0.87	0.00	0.00	0.00
ISCHYROCERUS SP. B	1.67	2.89	1.73	0.00	0.00	0.00
SYNCHELIDIUM SHOEMAKE	1.67	2.89	1.73	0.00	0.00	0.00
PUGETTIA RICHII	3.33	5.77	1.73	1.68	2.91	1.73
CANCER OREGONENSIS	1.67	2.89	1.73	0.10	0.17	1.73
LEPTOSYNAPTA CLARKI	3.33	5.77	1.73	0.01	0.02	1.73
SAGITTA ELEGANS	1.67	2.89	1.73	0.01	0.02	1.73

NSPEC	SDI	TMEANC	TMEANW
85.00	3.84	1793.33	41.44

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
PLOCAMIUM COCCINEUM	0.00	0.00	0.00	1.71	2.91	1.70
STENOGRAMME INTERRUPT	0.00	0.00	0.00	0.11	0.20	1.73
CRYPTONENIA SP.	0.00	0.00	0.00	1.74	3.01	1.73
CALLOPHYLIS SP.	0.00	0.00	0.00	0.50	0.87	1.73
CALLOPHYLLIS FLABELLU	0.00	0.00	0.00	3.36	2.89	0.86
CALLOPHYLLIS PINNATA	0.00	0.00	0.00	13.41	16.26	1.21
RHODYMENIA PACIFICA	0.00	0.00	0.00	0.02	0.03	1.73
NIENBURGIA ANDERSONIA	0.00	0.00	0.00	0.11	0.18	1.73
PLEONOSPORIUM SP.	0.00	0.00	0.00	0.00	0.01	1.73
NEOPTILOTA SP.	0.00	0.00	0.00	0.92	0.89	0.97
CRYPTOPLEURA SP.	0.00	0.00	0.00	0.13	0.23	1.73
POLYNEURA LATISSIMA	0.00	0.00	0.00	0.34	0.31	0.91
BOTRYOGLOSSUM FARLOWI	0.00	0.00	0.00	5.62	9.74	1.73
RHODOPTILUM PLUMOSUM	0.00	0.00	0.00	0.00	0.00	0.00
PTEROCHONDRIA WOODII	0.00	0.00	0.00	0.04	0.07	1.54
NEMERTEA	35.00	13.23	0.38	0.41	0.55	1.35
NEMATODA	23.33	15.28	0.65	0.00	0.00	0.00
HARMOTHOE IMBRICATA	3.33	2.89	0.87	0.01	0.02	1.73
PHOLOE MINUTA	10.00	8.66	0.87	0.03	0.05	1.73
PHYLLODOCE SP.	1.67	2.89	1.73	0.08	0.14	1.73
ETEONE LONGA	16.67	7.64	0.46	0.01	0.02	1.73
HESIONURA COINEAUI DI	1.67	2.89	1.73	0.00	0.00	0.00
MICROPODARKE DUBIA	10.00	8.66	0.87	0.00	0.00	0.00
PIONOSYLLIS UNAGA	10.00	5.00	0.50	0.00	0.00	0.00
TYPOSYLLIS SP.	18.33	2.89	0.16	0.01	0.02	1.73
EXOGONE SP.	5.00	8.66	1.73	0.00	0.00	0.00
SPHAEROSYLLIS SP.	1.67	2.89	1.73	0.00	0.00	0.00
NEREIS SP.	1.67	2.89	1.73	0.03	0.05	1.73
NEPHTYS LONGOSETOSA	5.00	5.00	1.00	0.84	0.80	0.95
GLYCERA SP.	5.00	0.00	0.00	0.21	0.20	0.98
HEMIPODUS BOREALIS	3.33	2.89	0.87	0.00	0.00	0.00
LUMBRINERIS SP.	1.67	2.89	1.73	0.03	0.02	0.87
PROTODORVILLEA GRACIL	33.33	27.54	0.83	0.00	0.00	0.00
SCOLOPLOS PUGETTENSIS	1.67	2.89	1.73	0.06	0.11	1.73
PRIONOSPIO STEENSTRUP	61.67	20.82	0.34	0.41	0.42	1.03
SPIO SP.	13.33	18.93	1.42	0.08	0.14	1.73
SPIOPHANES BOMBYX	5.00	5.00	1.00	0.01	0.02	1.73
SPIOPHANES CIRRATA	1.67	2.89	1.73	0.00	0.00	0.00
AONIDES SP.	15.00	18.03	1.20	0.01	0.02	1.73
CHAETOZONE SP.	21.67	7.64	0.35	0.03	0.02	0.87
ACROCIRRUS SP.	3.33	2.89	0.87	0.00	0.00	0.00
PHERUSA PLUMOSA	1.67	2.89	1.73	0.00	0.00	0.00
SCALIBREGMA INFLATUM	16.67	12.58	0.75	0.10	0.13	1.39
ARMANDIA BREVIS	3.33	2.89	0.87	0.00	0.00	0.00
CAPITELLA CAPITATA	1.67	2.89	1.73	0.00	0.00	0.00
NOTOMASTUS GIGANTEUS	1.67	2.89	1.73	0.23	0.40	1.73
MEDIOMASTUS AMBISETA	73.33	25.17	0.34	0.04	0.05	1.04
MALDANIDAE	28.33	25.66	0.91	0.06	0.05	0.87
NICOMACHE PERSONATA	15.00	8.66	0.58	0.21	0.12	0.56
EUCLYMENE CF. ZONALIS	1.67	2.89	1.73	0.00	0.00	0.00
OWENIA FUSIFORMIS	51.67	10.41	0.20	1.11	0.71	0.64
ASABELLIDES LINEATA	6.67	11.55	1.73	0.00	0.00	0.00
TEREBELLIDAE	20.00	13.23	0.66	0.09	0.05	0.56
PISTA SP.	1.67	2.89	1.73	0.01	0.02	1.73
FABRICIINAE	1.67	2.89	1.73	0.00	0.00	0.00

	MEAN	S.D.	CVAR	MEAN	S.D.	CVAR
		COUNT			WEIGHT	
CHONE SP.	22.33	17.56	0.75	0.03	0.02	0.87
CHITINOPOMA SP.	1.67	2.89	1.73	0.00	0.00	0.00
OLIGOCHAETA	36.67	15.28	0.42	0.01	0.02	1.73
TECTURA ROSACEA	1.67	2.89	1.73	0.01	0.02	1.73
COLLISELLA OCHRACEA	6.67	7.64	1.15	0.10	0.13	1.39
MARGARITES PUPILLUS	5.00	0.00	0.00	0.16	0.16	1.03
MARGARITES LIRULATUS	11.67	10.41	0.89	0.17	0.14	0.87
ALVINIA SP.	30.00	22.91	0.76	0.03	0.02	0.87
CALYPTRAEA FASTIGIATA	26.67	17.56	0.66	4.41	3.94	0.89
CREPIDATELLA LINGULAT	16.67	24.66	1.48	0.01	0.02	1.73
AMPHISSA COLUMBIANA	5.00	5.00	1.00	0.11	0.16	1.43
HANLEYA HANLEYI	16.67	15.28	0.92	0.16	0.17	1.07
ISCHNOCHITON SP.	3.33	5.77	1.73	0.53	0.92	1.73
STENOPLAX FALLAX	1.67	2.89	1.73	0.00	0.00	0.00
KATHAPINA TUNICATA	1.67	2.89	1.73	0.05	0.08	1.73
GLYCYMERIS SUBOBSOLET	1.67	2.89	1.73	0.01	0.02	1.73
MODIOLUS RECTUS	3.33	5.77	1.73	0.01	0.02	1.73
CYCLOCARDIA SP.	10.00	5.00	0.50	2.13	1.90	0.89
CLINOCARDIUM CALIFORN	6.67	7.64	1.15	1.18	1.83	1.55
MACOMA SP.	10.00	10.00	1.00	0.63	0.97	1.54
MACOMA OBLIQUA	1.67	2.89	1.73	0.30	0.51	1.73
SAXIDOMUS GIGANTEUS	11.67	2.89	0.25	220.44	201.83	0.92
PSEPHIDIA LORDI	5.00	8.66	1.73	0.10	0.17	1.73
MYA TRUNCATA	3.33	5.77	1.73	101.76	176.26	1.73
HARPACTICOIDEA	1.67	2.89	1.73	0.00	0.00	0.00
NEPALIA PUGETTENSIS	1.67	2.89	1.73	0.00	0.00	0.00
TANAIDACEA SP. A	1.67	2.89	1.73	0.00	0.00	0.00
LEPTOCHELIA SAVIGNYI	48.33	54.85	1.13	0.00	0.00	0.00
IDOTEA SP. JUV.	1.67	2.89	1.73	0.00	0.00	0.00
AMPELISCA SP.	1.67	2.89	1.73	0.00	0.00	0.00
MELITA SP.	38.33	15.28	0.40	0.04	0.00	0.00
ISAEIDAE	8.33	7.64	0.92	0.00	0.00	0.00
ISCHYROCERUS SP. B	1.67	2.89	1.73	0.00	0.00	0.00
PHOXOCEPHALIDAE	3.33	2.89	0.87	0.00	0.00	0.00
HEPTACARPUS BREVIROST	15.00	5.00	0.33	0.30	0.08	0.27
PANDALUS STENOLEPSIS	1.67	2.89	1.73	0.76	1.32	1.73
UPOGEBIA PUGETTENSIS	5.00	5.00	1.00	0.65	0.77	1.19
PAGURUS SP.	1.67	2.89	1.73	0.01	0.02	1.73
CANCER OREGONENSIS	3.33	2.89	0.87	0.49	0.59	1.19
PHOPONOPSIS HARMERI	5.00	5.00	1.00	0.01	0.02	1.73
OPHIUROIDEA	21.67	10.41	0.48	0.22	0.15	0.68
LEPTOSYNAPTA CLARKI	10.00	5.00	0.50	0.49	0.47	0.96
PHOLIS LAETA	1.67	2.89	1.73	0.05	0.08	1.73
EGG MASSES	6.67	11.55	1.73	0.05	0.08	1.73

NSPEC	SDI	TMEANC	TMEANW
39.00	4.67	956.66	367.54