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LINCOLN PARK SHORELINE EROSION CONTROL PROJECT: POST-CONSTRUCTION MONITORING OF EELGRASS, INFAUNAL BIVALVES, AND MACROALGAE, 1990

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ABSTRACT

As part of a project to rehabilitate the seawall protecting Lincoln Park beach in West Seattle, fill was placed on intertidal areas seaward of the existing seawall. Pre-project studies on the benthic assemblages were conducted in 1985 and 1988 to evaluate existing conditions and to assess recovery of benthic assemblages following the fill. The present study repeats the pre-fill sampling of macroalgae and bivalves conducted in 1985, and eelgrass sampling conducted in 1988. Macroalgae and bivalve assemblages were sparse in the upper intertidal zone where the fill was to be placed; statistical differences in assemblage parameters (e.g., percent algal cover, bivalve density) were not significant between pre- and post-fill conditions. Substrata composition was, however, substantially changed. The fill material (pit-run gravel) essentially changed the substrata from a cobble/hardpan-dominated condition to a mixture of cobble, gravel, and sand. Eelgrass was less dense in 1990 compared to 1988 pre-project conditions, and some patches of eelgrass were missing. The decline in density was also seen in reference sites and may indicate a regional condition. Slumping of sands from the lower edge of the fill was noted to cover some areas in the adjacent lower intertidal zone and may be the cause of increased turbidity in localized areas of the beach. These factors may have resulted in the loss of a few small patches of eelgrass. Colonization of the fill consisted of diatoms and small barnacles (~3 mm diameter) at the lower edge of the fill. No bivalves were encountered in the samples taken on the fill. We recommend that monitoring continue to evaluate the colonization rates of this type of fill material. In addition, we recommend that dune vegetation be planted on the upper lip of the fill to reduce erosion, and littleneck clams be seeded in the lower elevations of the fill to enhance recruitment. These latter efforts are proposed on an experimental basis to evaluate their feasibility.

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KEY WORDS

Lincoln Park beach, shoreline protection, marine community, recolonization, eelgrass, kelp.

ACKNOWLEDGMENTS

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INTRODUCTION

During the fall of 1988, the Seattle District of the U.S. Army Corps of Engineers and the city of Seattle completed a project to rehabilitate the seawall and beach protecting Lincoln Park, located in Fauntleroy Cove (Fig. 1). As part of the project, fill was placed on existing intertidal areas seaward of the wall. A series of pre- and post-construction studies were proposed to assess the impacts of the fill and monitor recovery of the beach marine life. A baseline study of benthic communities in the project area was carried out in 1985 (Thom and Hampel 1985). The study focused on macroalgae and infaunal bivalves occupying intertidal habitats in, and immediately adjacent to, the proposed fill area. Additional baseline work was performed during the spring of 1988 and included benthic fish prey resources (Hiss et al. 1988) and eelgrass (*Zostera marina* L.) populations (Thom 1988). The first post-construction observations were made in August 1989 (Thom and Hallum 1989). This latter study showed that the fill material was largely confined to the area of original placement. However, some loss and slumping (i.e., movement of the fill to lower elevations on the beach) of finer-grained material (i.e., sands and finer) had occurred. Thom and Hallum (1989) noted that diatoms, evident as a dark brown film or mat, had colonized the lower elevations (ca. +3 to +4 ft MLLW) of the fill. The fill material was selected to represent materials which would naturally occur on-site.

Post-construction monitoring in 1990 includes the present study and that of J. Hiss of the U.S. Fish and Wildlife Service on benthic fish prey resources. The purpose of the present study is to compare pre- and post-construction conditions of the macroalgae, infaunal bivalves and eelgrass. We sampled these assemblages at the same elevations located along the same transects and with the same methods as those used in 1985 (algae and bivalves) and 1988 (eelgrass).

METHODS

STUDY AREA AND SAMPLING STATIONS

Macroalgae, Substrata and Bivalves

Sampling occurred along 11 transects randomly established in 1985 by Thom and Hampel (1985) (Fig. 1). Transects 1 and 10 were located outside the fill area and served as reference transects. Transects 2-9 were established at 100-m intervals within the area of the fill. An additional transect (no. 8.5) was established mid-way between transects 8 and 9. Details on transect location and establishment are provided in Thom and Hampel (1985). Samples were collected at stations located at 2-ft (0.6-m) elevation intervals from +8 ft to -2 ft MLLW (mean lower low water) along each transect. Elevations of the sites along the transects were determined using a hand level with reference to the top of the seawall. The elevation of the sites were further verified with reference to predicted tidal levels from National Ocean Service tide tables. Comparison of predicted level with determinations made using the survey method were very close (vertical difference $\leq$20 cm).

Eelgrass

Intertidal patches of eelgrass between transects 2 and 10 were located relative to the transects by measuring the distances to the nearest transect and recording the angle (magnetic) to stations

along the transect. Eighteen more-or-less distinct patches were originally located in 1988. We were able to relocate most of these patches in 1990. Some adjacent patches appeared to have combined and some patches present in 1988 were apparently gone in 1990. A reference patch located near the north end of Seahurst Park beach was also resampled. Samples were collected from random stations located along a tape measure stretched through the middle of the patch. The area of each patch was determined by measuring the diameter of circular patches or length and width of rectangular patches. The number of replicate samples collected within each patch varied from 2-10 depending upon the area of the patch.

SAMPLING METHODS

Macroalgae, Substrata and Bivalves

Sampling was conducted on 5-7 June 1990 following the methods of Thom and Hampel (1985). To sample the percentage cover of attached macroalgae and animals attached to the surface of rocks, a plexiglass 0.1-m^2 quadrat with 50 random points (2-mm diameter) was placed at each station. The number of points covering each species was recorded. The attached algae was then carefully removed and placed in labelled plastic bags for biomass determinations to be made later in the laboratory. These latter samples were frozen until analysis. The percentage cover of boulders (>15-cm diameter), cobble (5- to 15-cm diameter), gravel (0.2- to 5-cm diameter), and sand (<0.2-cm diameter) was similarly recorded for the quadrat following the removal of algae. Sand and mud cover, distinguished in 1985, were combined in 1990 because of difficulties in consistently delineating the two size classes of sediment. For the comparative analysis, the data on cover of sand and mud from 1985 were also combined.

Bivalves were sampled at each station by excavating a hole 25 x 25 cm (= 0.06 m^2) in surface area and 30 cm deep. The bivalves from the excavated sediment that were retained on a 0.5-in (1.3-cm) mesh screen were placed in labelled plastic bags and frozen for later analysis in the laboratory.

Eelgrass

Eight of the nine patches (1, 3, 5, 8, 13, 15, 17, 18 and 19) sampled by Thom and Hallum in 1988 were resampled in 1990. Patch 13 was not sampled in 1990 because it was difficult to locate due to very low densities of shoots. Fewer samples were taken in Patch 18 in 1990 because it had decreased in area since 1988. Patch 19 was a reference patch located at Seahurst Park. The percentage cover of eelgrass and attached algae (i.e., largely epiphytes on the eelgrass) was recorded within each patch using the 0.1-m^2 plexiglass quadrat at each station. The eelgrass shoots were then removed along with epiphytes from within a 0.1-m^2 area defined by a metal quadrat and placed in labelled plastic bags. A circular core 78 cm^2 in surface area and 20 cm deep was removed from the center of the quadrat. The roots and rhizomes retained on a 0.5-mm mesh screen from the core were placed in another labelled plastic bag. The samples were frozen for later analysis.

LABORATORY ANALYSIS

Macroalgae

Algae samples were thawed and the species in each sample were determined. The dry weight of each species was measured to the nearest mg after drying the sample at 80°C for 24-48 h.

Bivalves

Upon thawing, bivalves were identified to species and the dry weight of each species was determined to the nearest mg following drying at 80°C for at least 48 h. Valve length and dry weight were also recorded for each individual of *Protothaca staminea*, *Saxidomus giganteus*, and *Tapes* sp.

Eelgrass

The number of eelgrass shoots was recorded for each sample. The epiphytes were then carefully removed, and the approximate proportion of the epiphyte load comprised of green (i.e., *Ulva* spp.) and red (i.e., *Smithora naiadum*) algae was estimated. The dry weight of shoots (all shoots from a sample combined) and epiphytes was then recorded to the nearest mg following drying at 80°C for 24-48 h. The dry weight of samples of roots and rhizomes was similarly determined.

DATA HANDLING AND ANALYSIS

All quantitative data was entered into data files and analyzed using the statistical software package STATGRAPHICS. The raw data sets are stored on IBM-compatible flexible computer disks and a hard disk, and are included as Appendix 1 to this report. Statistical tests were applied to evaluate differences for data taken before and after the filling. For this purpose, we designated sites or eelgrass patches as being either in the vicinity of the fill or as reference sites or patches outside the area of the fill. For algae and bivalves, sites at +8 to +4 ft MLLW along transects 2-9 were fill sites, and sites at +2 to -2 ft MLLW along transects 2-9 and all sites along transects 1 and 10 were considered reference sites. Eelgrass patches 5-18 were within the vicinity of the fill, and patches 1-4 and 19 were outside the fill area. Although some effect outside the direct area of the fill may have been seen in some reference sites, we felt that use of very close reference areas was an appropriate and efficient way of delineating natural variation from fill effects within the Fauntleroy Cove system.

RESULTS AND DISCUSSION

GENERAL OBSERVATIONS

The fill formed a relatively homogeneous cover of cobble and gravel in the upper elevations on the beach between the seawall and about 25 m seaward. The toe of the fill was located at about +3 ft MLLW. Thom and Hallum (1989) reported evidence of slumping at the toe of the fill near transects 5 and 6 (Fig. 1); this trend was still apparent in the present study. At that location, sand from the fill covered cobbles to a depth of roughly 10 cm. Very little colonization of the cobble

surface in the fill was noted. The exception was the light film of diatoms and small (i.e., 3-mm diameter) barnacles near the seaward edge of the fill.

SUBSTRATA

The primary difference between pre- and post-fill conditions was the shift to a relatively homogeneous cover of cobble from a condition of gravel with some sand (Figs. 2-4). Table 1 shows that mean cobble cover increased substantially over the entire beach. The cover of gravel appeared to be less in 1990 as compared to 1985 at elevations below the fill area (i.e., below +3 ft MLLW). This latter condition appears to coincide with an increase in sand cover between the two years at this elevation range (Fig. 4).

MACROALGAE

Mean macroalgal percent cover was greatest at the lowest elevations and decreased with increasing elevation (Fig. 5). This trend was very similar between the 1985 and 1990 data sets, except that the area of the fill (i.e., elevation from +6 to +8 ft MLLW) had no algal cover in 1990. The base of the fill at +4 ft had similar cover between years as did the remaining elevations. This latter condition is probably explained by the fact that the fill did not uniformly cover the +4 ft elevation, and some original substrata and attached biota remained intact in 1990. Mean algal cover for the entire study area was very similar between years (Table 1). No significant difference was apparent in mean algal cover from the area of the fill or reference areas between years (Table 2).

Mean algal biomass generally followed the trends exhibited by percent cover (Fig. 6). The major difference between years was in biomass of algae at +6 ft MLLW. This elevation had a patchy distribution of the brown rockweed *Fucus* in 1985 (Thom and Hampel 1985), which was lost because of the fill. Over all sites, mean biomass in 1990 was substantially less than in 1985, perhaps due to the loss of *Fucus* (Table 1). However, the high degree of variation in biomass on the beach prevented the detection of significance between years (Table 2).

BIVALVES

Bivalve densities were generally greatest at 0 ft MLLW during both surveys (Figs. 7, 8). The bivalves at the elevations of the fill were very sparse in 1985, and only two individuals were collected in 1990 in this area (Fig. 7B). Close inspection of the cores during sampling revealed no very small (ca. <1.3 cm) clam recruits. Total mean bivalve density was very similar between years (Table 1), and changes in the fill and reference areas between years were not significant (Table 2).

Biomass followed the elevational trend of density (Fig. 9). Although mean biomass for the study area in 1990 was about one-half that in 1985, the high variability of bivalve distributions in the study area prevented the detection of significance between years. Of note is the fact that both fill area and reference areas showed substantial changes between the two years in terms of biomass. This suggests that temporal fluctuations in bivalve populations are important.

The three target bivalve species showed very little difference in density between years (Table 1). All of these species were generally sparse during both studies and had a high degree of spatial variation in their occurrence.

EELGRASS

Eelgrass is not extensive at Lincoln Park. It exists in patches in soft sediment located primarily in the lower intertidal to shallow subtidal zone (Fig. 1). Our sampling in 1990 showed that many patches had changed in size (Fig. 10). Patches far removed from the fill (i.e., 1-4, 19) either increased in area or remained essentially the same size. Two patches (16, 17) within the area of the fill also increased in size. Patches 9 and 16 formed a continuous patch, hence there was only a measurement recorded for patch 16 (Fig. 10). Patches 10-14 were very ill-defined in 1990. These patches varied in area from 5 to 116 m^2 in 1988 to a group of very small patches on the order of 1 m^2 in area in 1990. Relatively small patches in the middle of the study area (i.e., 6-8) either decreased substantially in size or were absent in 1990.

Mean values for all *Zostera* plant parameters declined between 1988 and 1990 in both the fill area and reference areas (Table 3). The only statistically significant change detected was for shoot percent cover, which declined approximately 66% between the two years within the fill area, and 75% within the reference area. Of note is that the patch at Seahurst Park, located approximately 10 km south of Lincoln Park, exhibited substantial declines in shoot density (Fig. 11), shoot biomass (Fig. 12), and below-ground biomass (Fig. 13). Patches 13, 15, 18 and 19 exhibited substantial declines in shoot density and biomass between years (Figs. 11 and 12). Mean density was greater in patch 5 in 1990 as compared with 1988. Below-ground biomass by patch followed the same trends as shoot biomass and density (Fig. 13).

The only significant change detected between years in the eelgrass patches was for epiphyte biomass (Fig. 14, Table 3). Epiphyte biomass was much lower in the fill area in 1990 compared to 1988. In contrast, reference patches had a greater mean epiphyte biomass in 1990 than in 1988. Epiphytes can compete with the eelgrass host for light and nutrients to such an extent that eelgrass density and biomass are negatively affected. This may have occurred at the reference patches and may explain why eelgrass density was lower in 1990. There are no concordant water chemistry or light data that might be used to evaluate the reason for the epiphyte bloom. Decreased light is often cited as the reason for declined growth in both eelgrass and its epiphytes. Lower light conditions due to increased turbidity localized to the area of the fill may have been important. We noted higher turbidity in this latter region during our sampling trips in 1990, and turbidity and slumping of fine material from the fill was noted by Thom and Hallum (1989) in 1989 in this region. In addition, patches in the middle of the fill area were either reduced in size or absent in 1990. All of these facts suggest that turbidity from the fill may have been a primary factor affecting epiphyte loads on eelgrass in the vicinity of the fill.

CONCLUSIONS

As was expected (Thom and Hampel 1985), the fill covered macroalgae and bivalves in the upper intertidal zone of Lincoln Park beach. However, under natural conditions these assemblages are sparsely abundant relative to other elevations on the beach and at reference areas. Eelgrass patches in the adjacent low intertidal and shallow subtidal zone in the middle of the beach were probably also lost because of slumping of fine material from the fill and possible increased turbidity (slumping was anticipated and appears to have an overall minor impact on the lower intertidal assemblages). However, natural between-year changes in population parameters suggest that regional conditions in 1990 (and perhaps 1989) were not as favorable for eelgrass as they were

in 1988. We are unsure of what specific conditions caused the region-wide decline in eelgrass density and biomass, but causal factors typically found to affect regional eelgrass conditions include temperature, nutrients and light (Thom, in press; Thom and Albright 1990).

Colonization on the fill was limited to diatom filaments and small barnacles at the lower elevations (i.e., the seaward toe of the fill). Bivalves were not found in our sediment cores. Bivalves do not necessarily recruit on an annual basis, and future monitoring is critical to understand recruitment patterns on this type of beach fill.

RECOMMENDATIONS

We have three recommendations based upon the 1990 monitoring effort:

1. We strongly recommend that monitoring be continued as was originally proposed. Monitoring is the only way to understand the dynamics of benthic community establishment on beach fill of this type. Future projects that propose beach fill can benefit from monitoring at Lincoln Park by aiding in predictions regarding impacts and re-establishment of benthic communities.
2. In addition to slumping of sands at the toe of the fill, we noted erosion of the uppermost portions of the fill very near the seawall. This fill material is mostly sand. Erosion in this area may be slowed by establishment of dune grasses. To evaluate the prospects of establishing dune vegetation to limit erosion, we recommend that experimental transplanting of dune grass (*Elymus mollis*) be conducted in 1991. Once established, the grasses would not only limit erosion but would form an aesthetically pleasing buffer between the park beach road and the beach. Dune grass plantings, for berm stabilization, have recently been tried at Jetty Island in Everett with good success. The experimental plantings could be conducted in limited (e.g., 10 m long) plots at three sites along the fill. This would be an inexpensive test of the feasibility of dune grass establishment.
3. Bivalve recolonization could be enhanced by planting the Japanese littleneck clam, *Tapes japonica*, onto the fill. This should be restricted to the lower elevations on the fill (i.e., +4 to +6 ft MLLW). In addition, it is advisable to stabilize the sediment using netting as is now being done by the Washington State Department of Fisheries. Planting would not have to be done over the entire fill, but could be restricted to 5- x 20-m plots at three locations on the beach.

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FIGURES

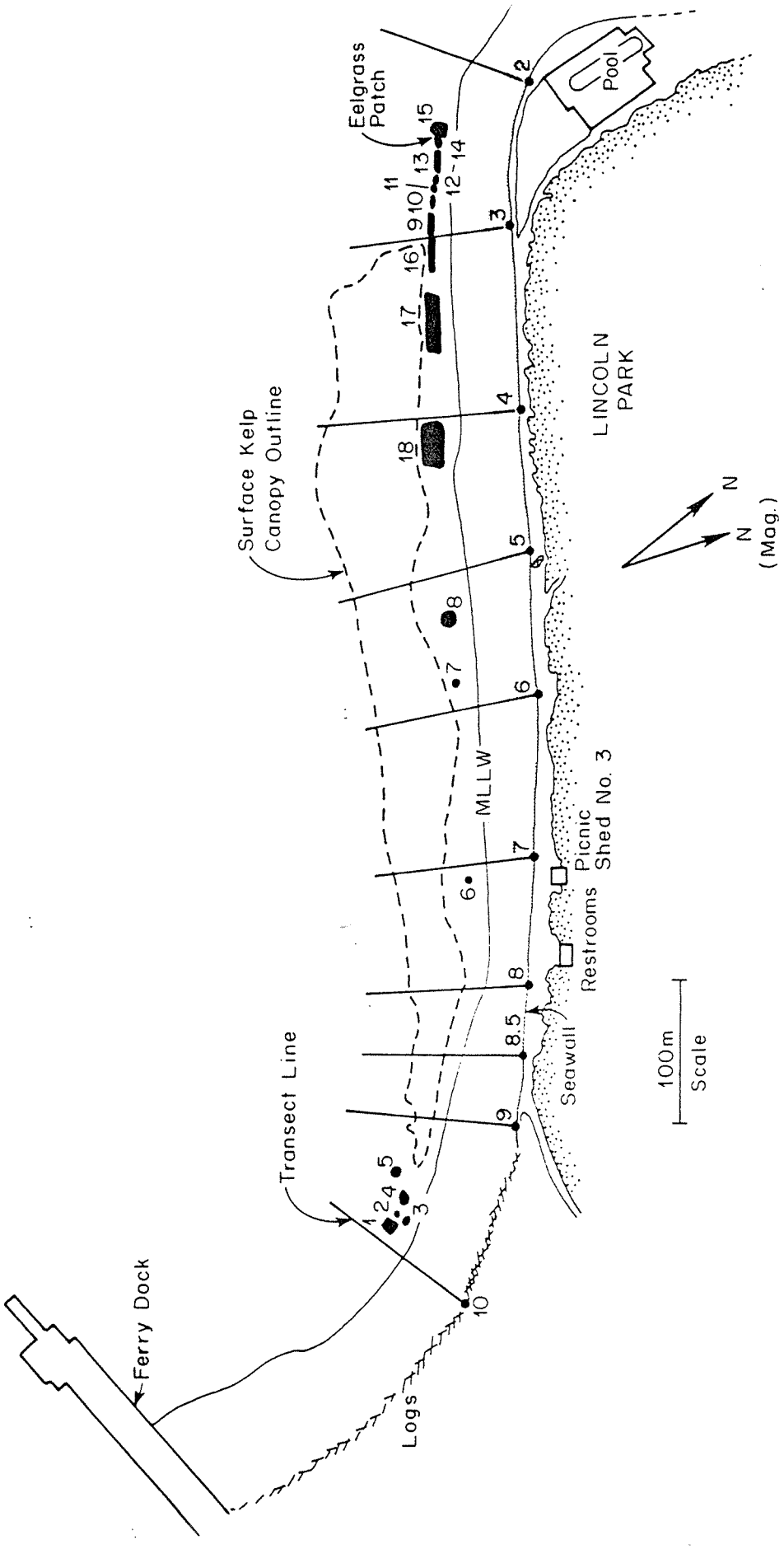

Figure 1. Map of the transects in the area of the fill (shaded area). Transect lengths are not to scale. In general, the transects extend to a point just shoreward of the inner edge of the kelp bed. Transect 1, not shown, is located approximately 500 m north of Pt. Williams.

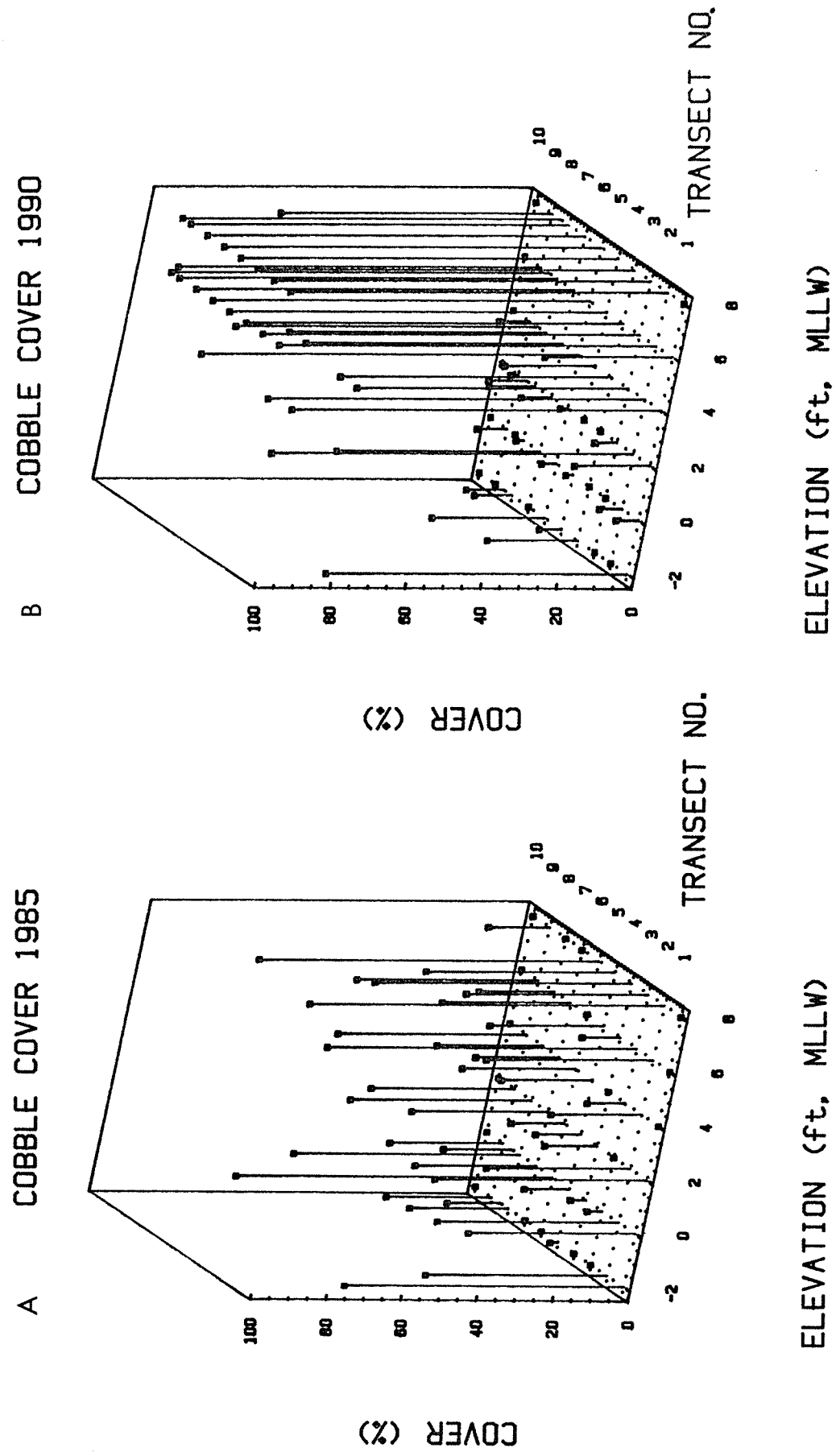

Figure 2. The cover of cobble in (A) 1985 and (B) 1990 by elevation and transect number at Lincoln Park beach.

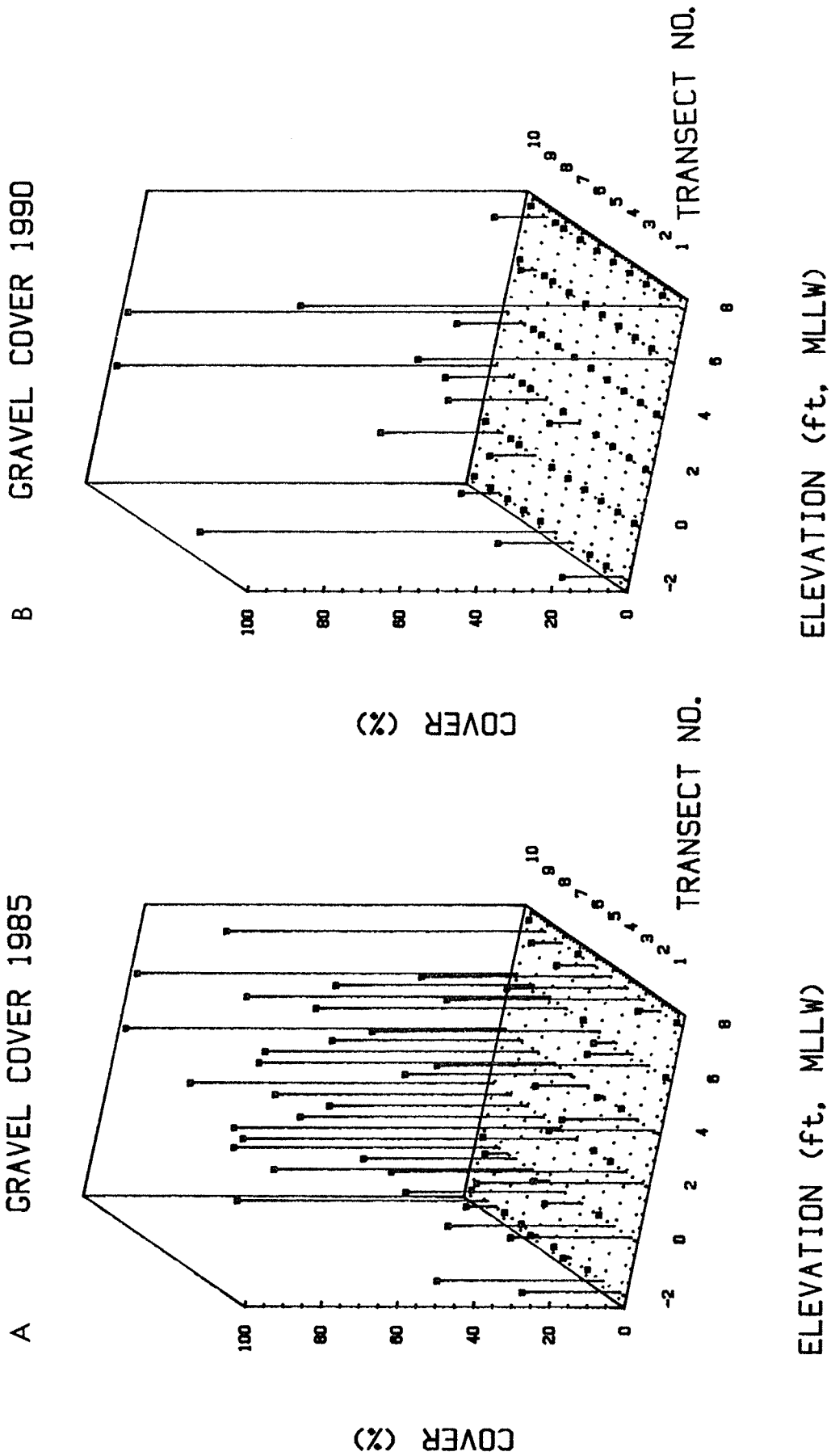

Figure 3. The cover of gravel in (A) 1985 and (B) 1990 by elevation and transect number at Lincoln Park beach.

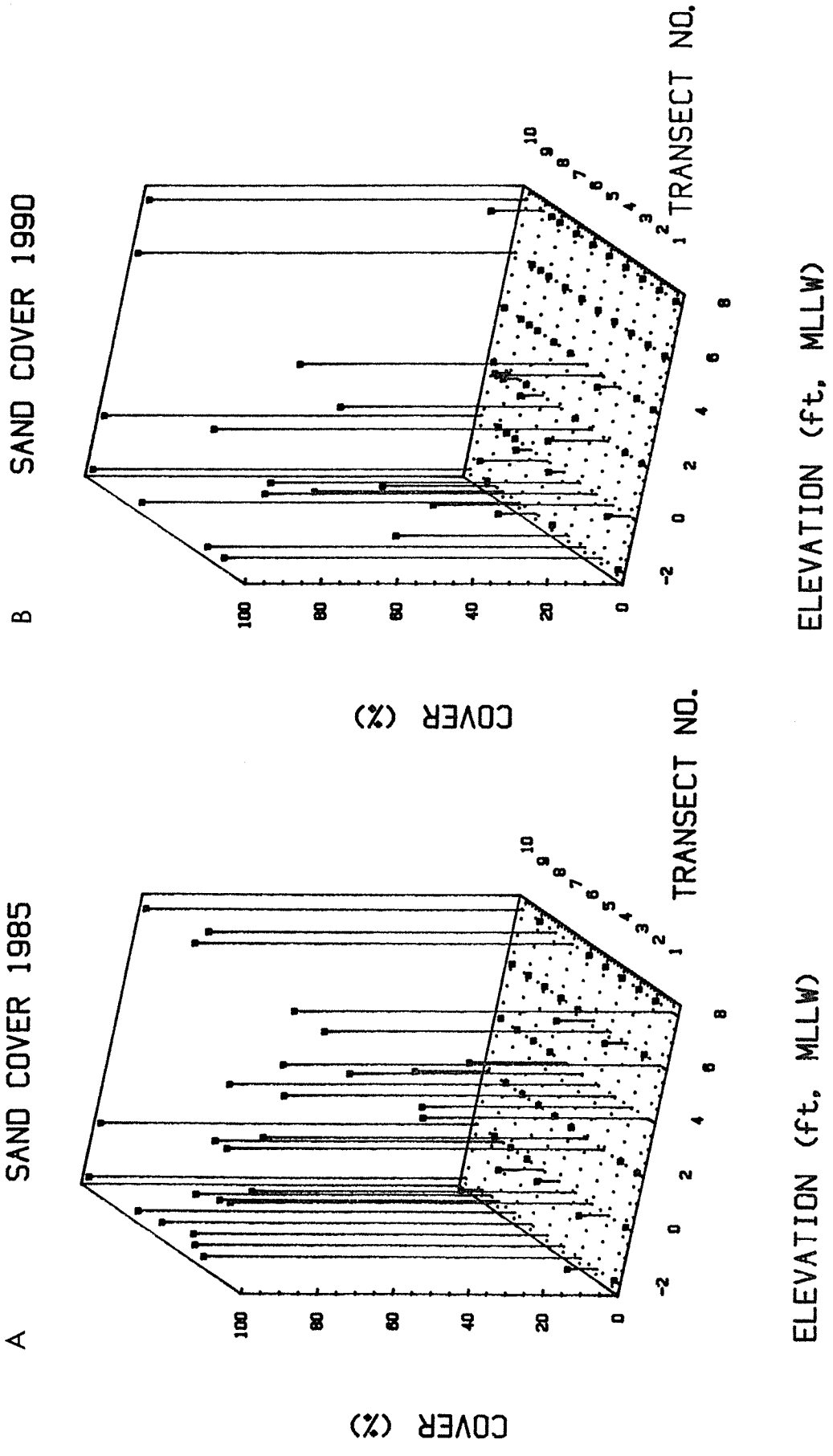

Figure 4. The cover of sand in (A) 1985 and (B) 1990 by elevation and transect number at Lincoln Park beach.

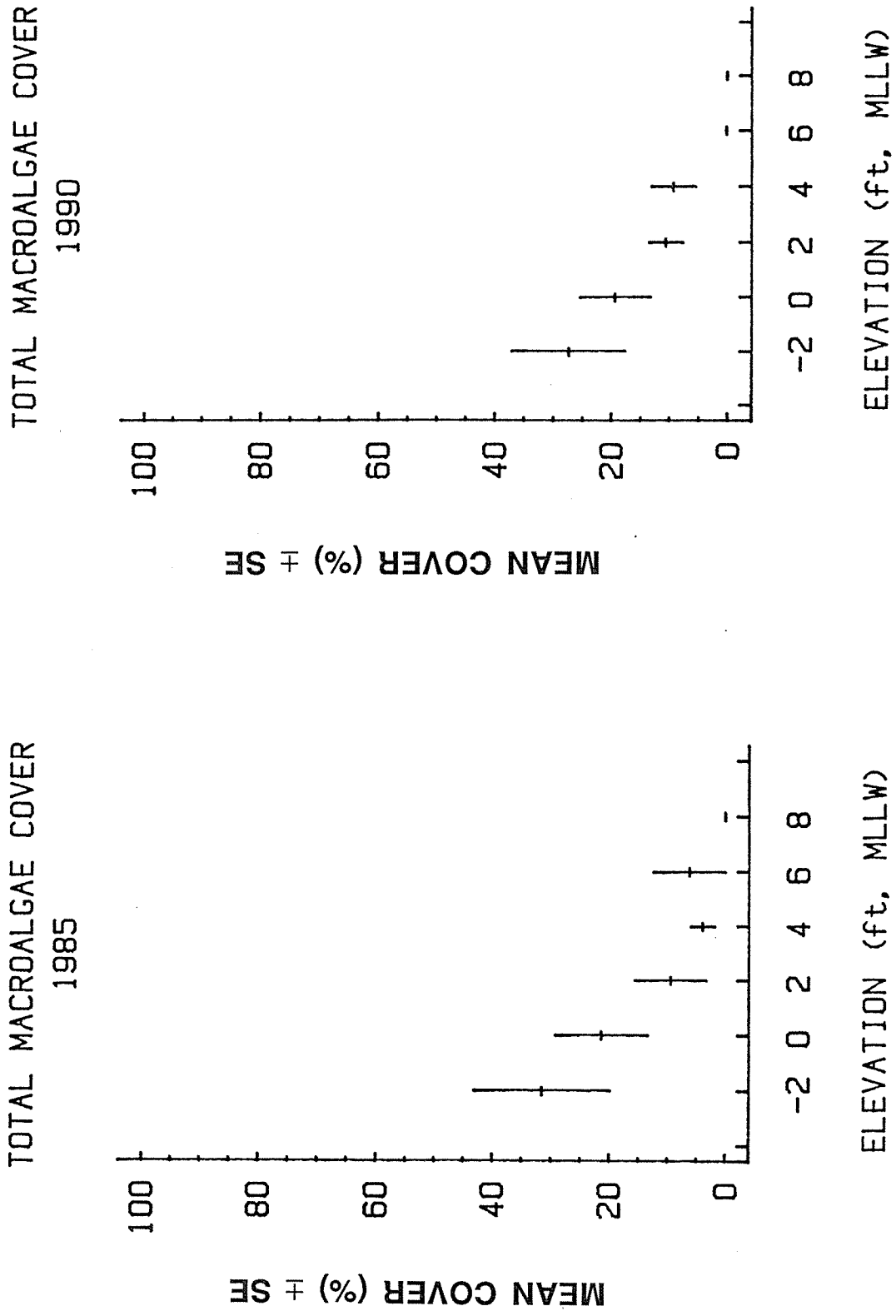

Figure 5. Mean total macroalgae cover (± 1 standard error) in 1985 and 1990.

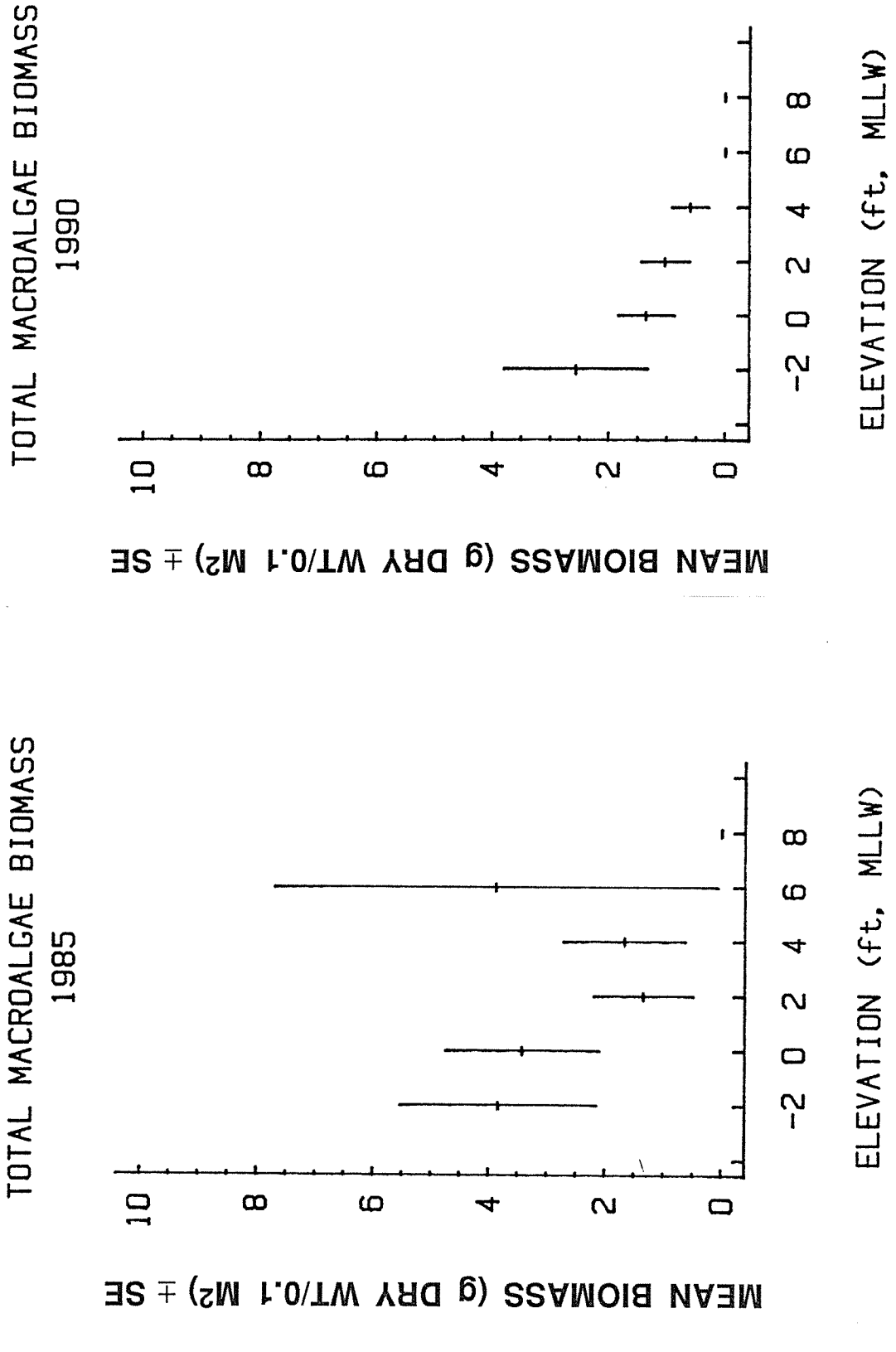

Figure 6. Mean total macroalgae biomass (± 1 standard error) in 1985 and 1990.

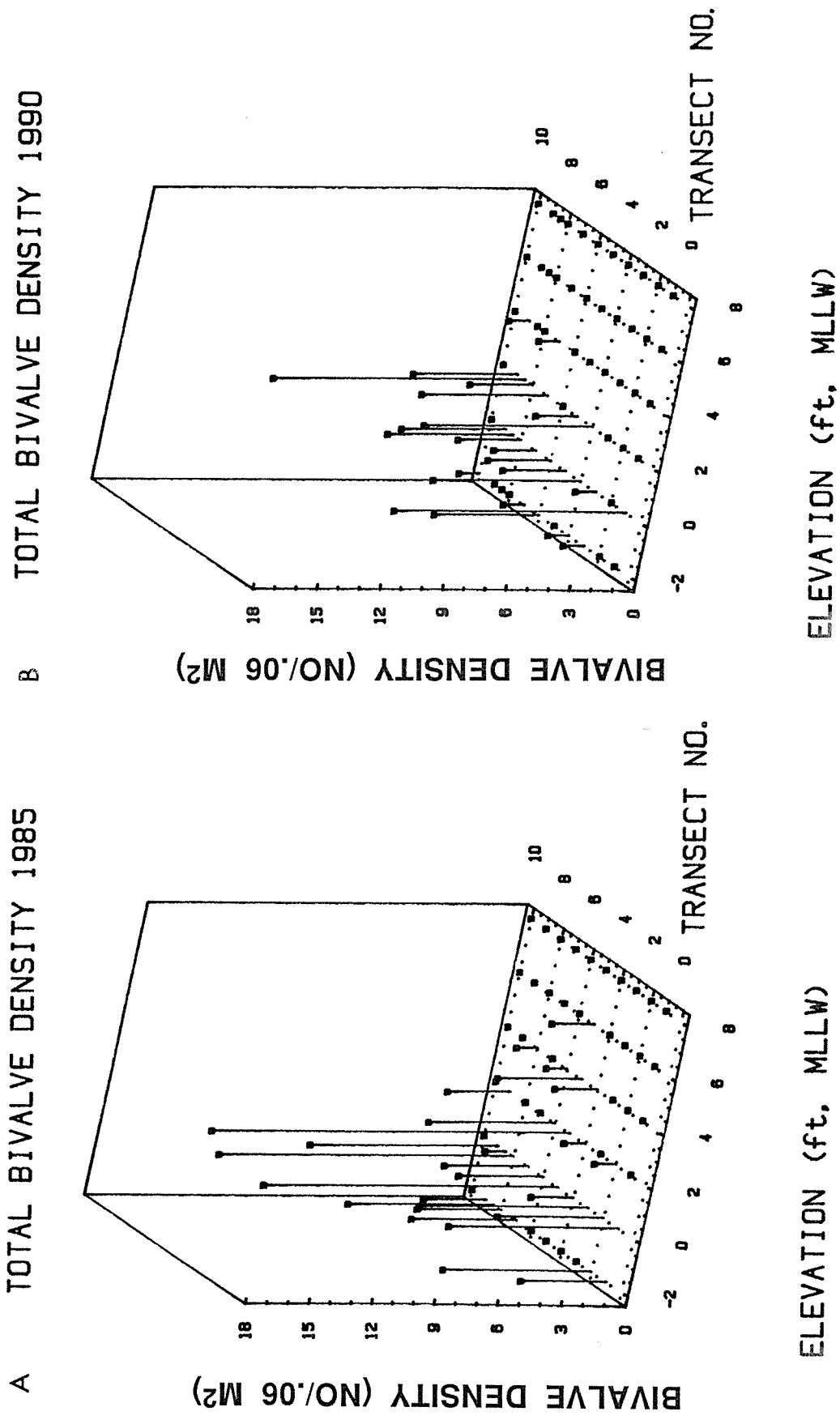

Figure 7. Bivalve density in (A) 1985 and (B) 1990 by elevation and transect number at Lincoln Park beach.

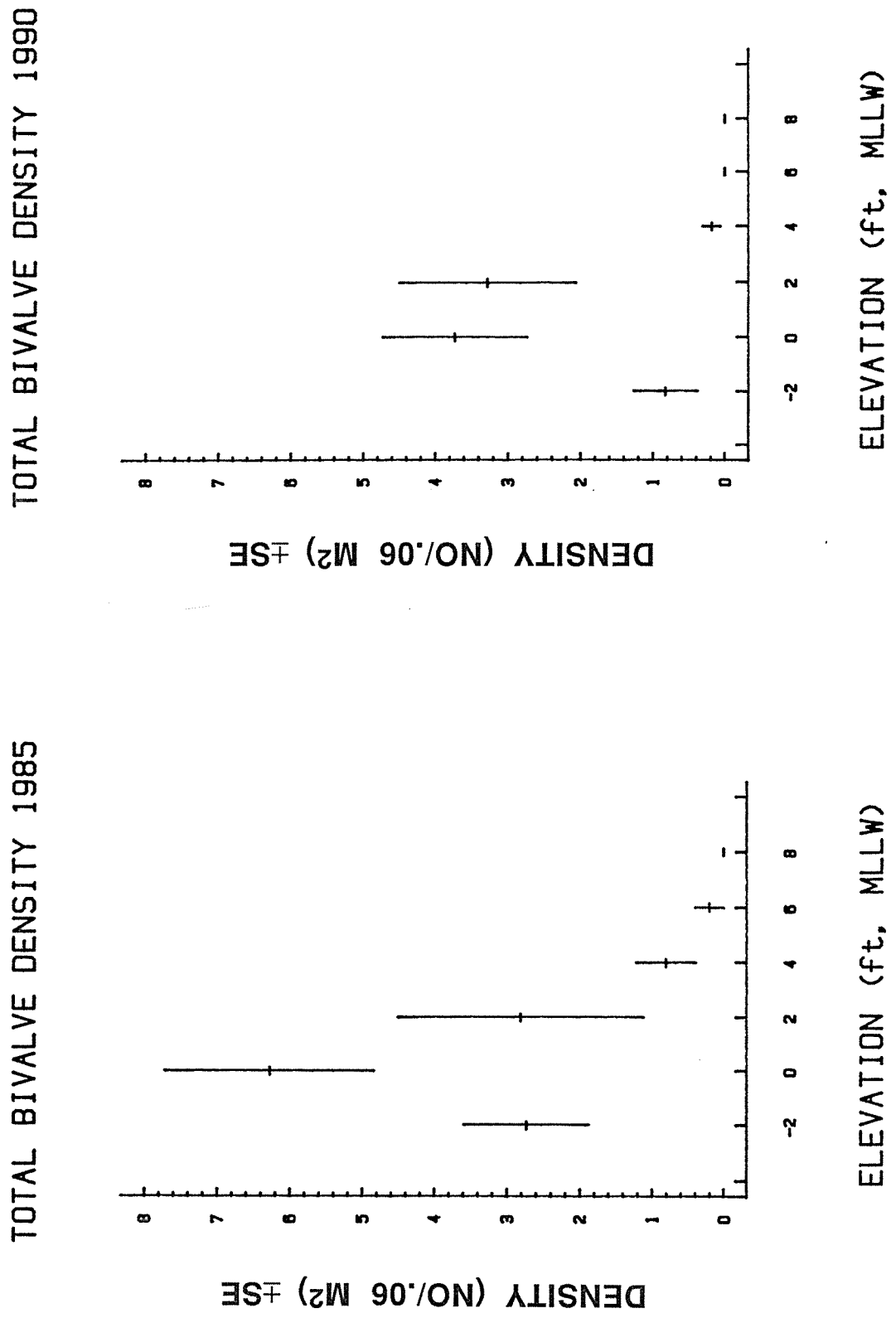

Figure 8. Mean total bivalve density (± 1 standard error) by elevation in 1985 and 1990.

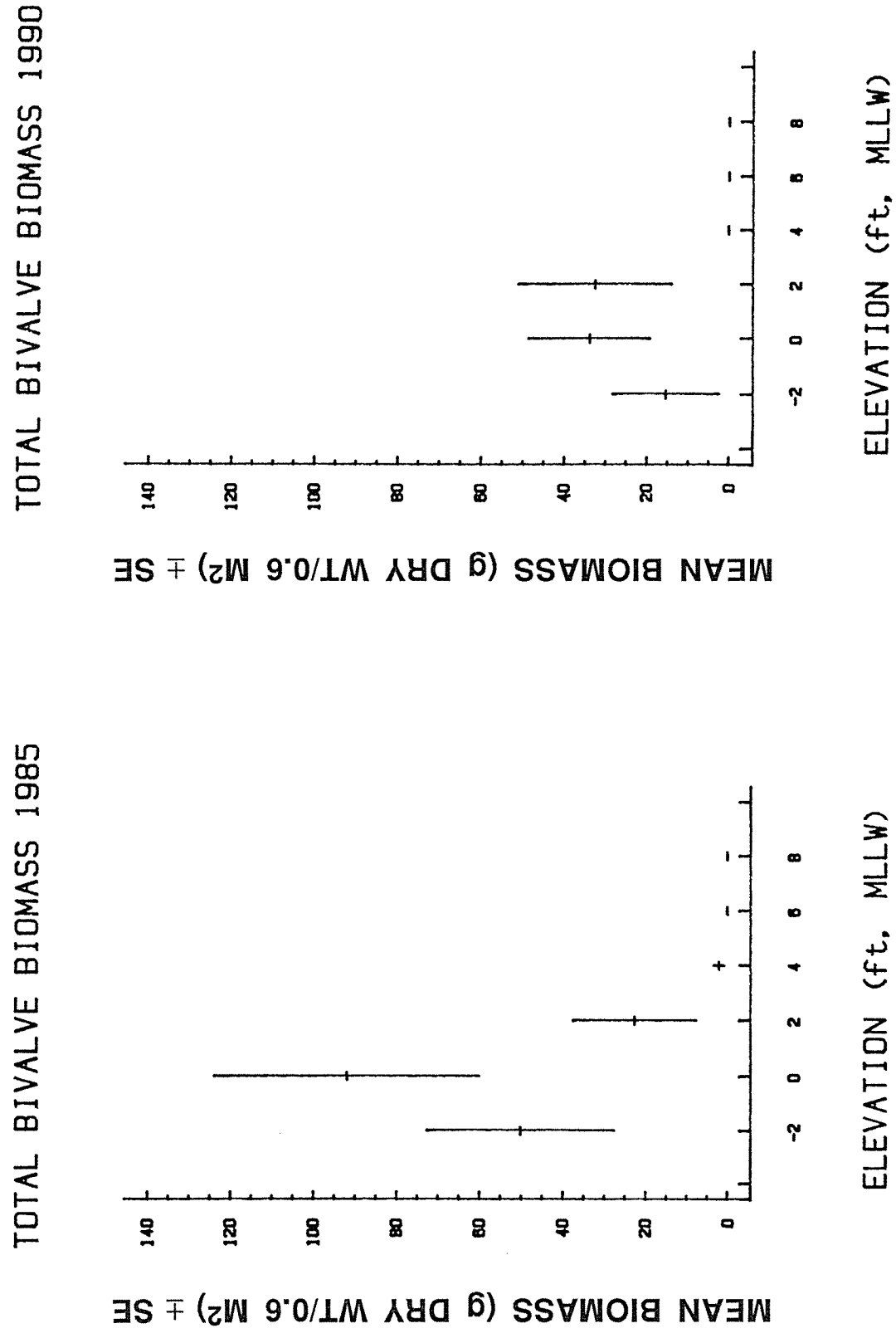

Figure 9. Mean total bivalve biomass (± 1 standard error) by elevation in 1985 and 1990.

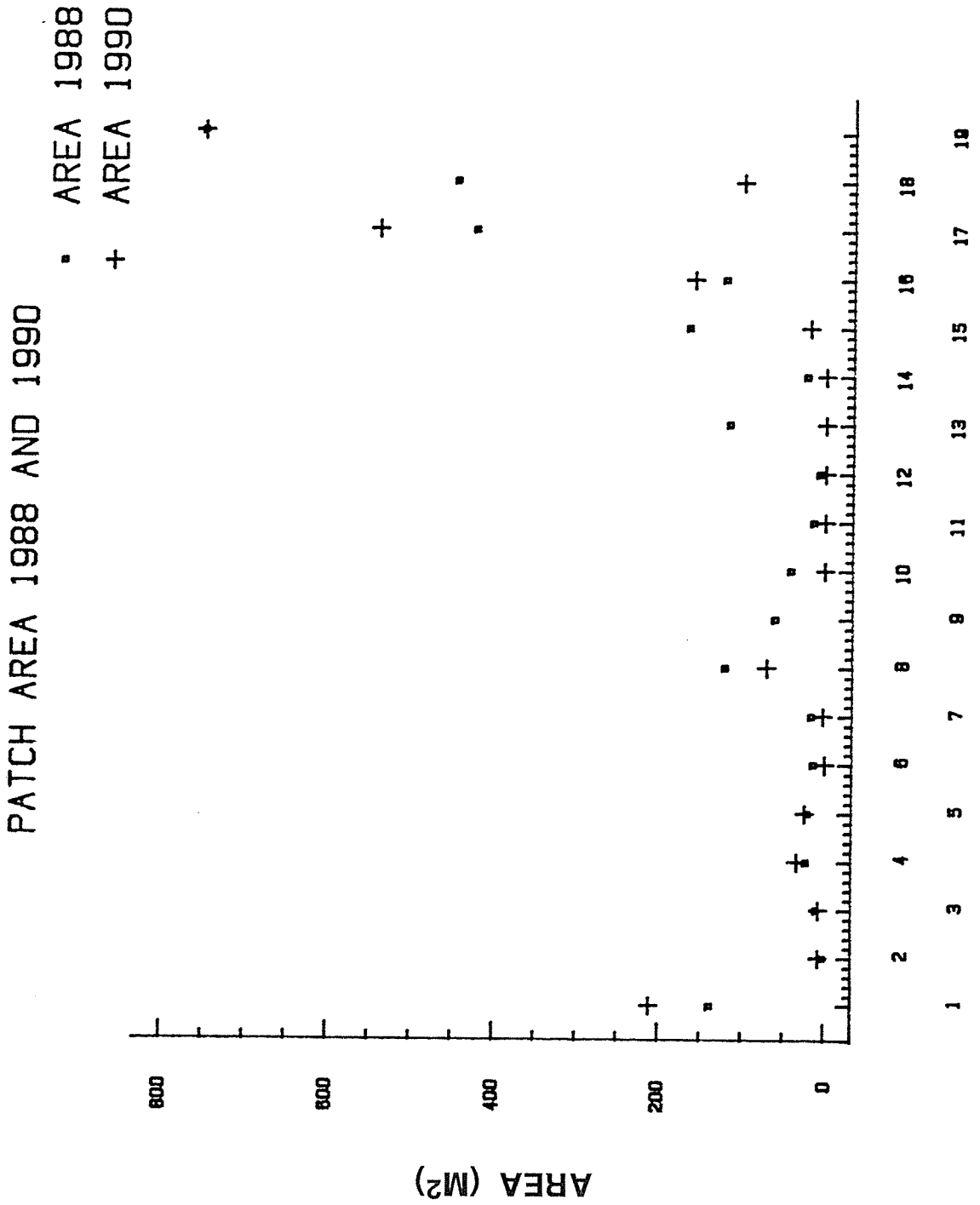

Figure 10. Eelgrass patch areas in 1988 and 1990.

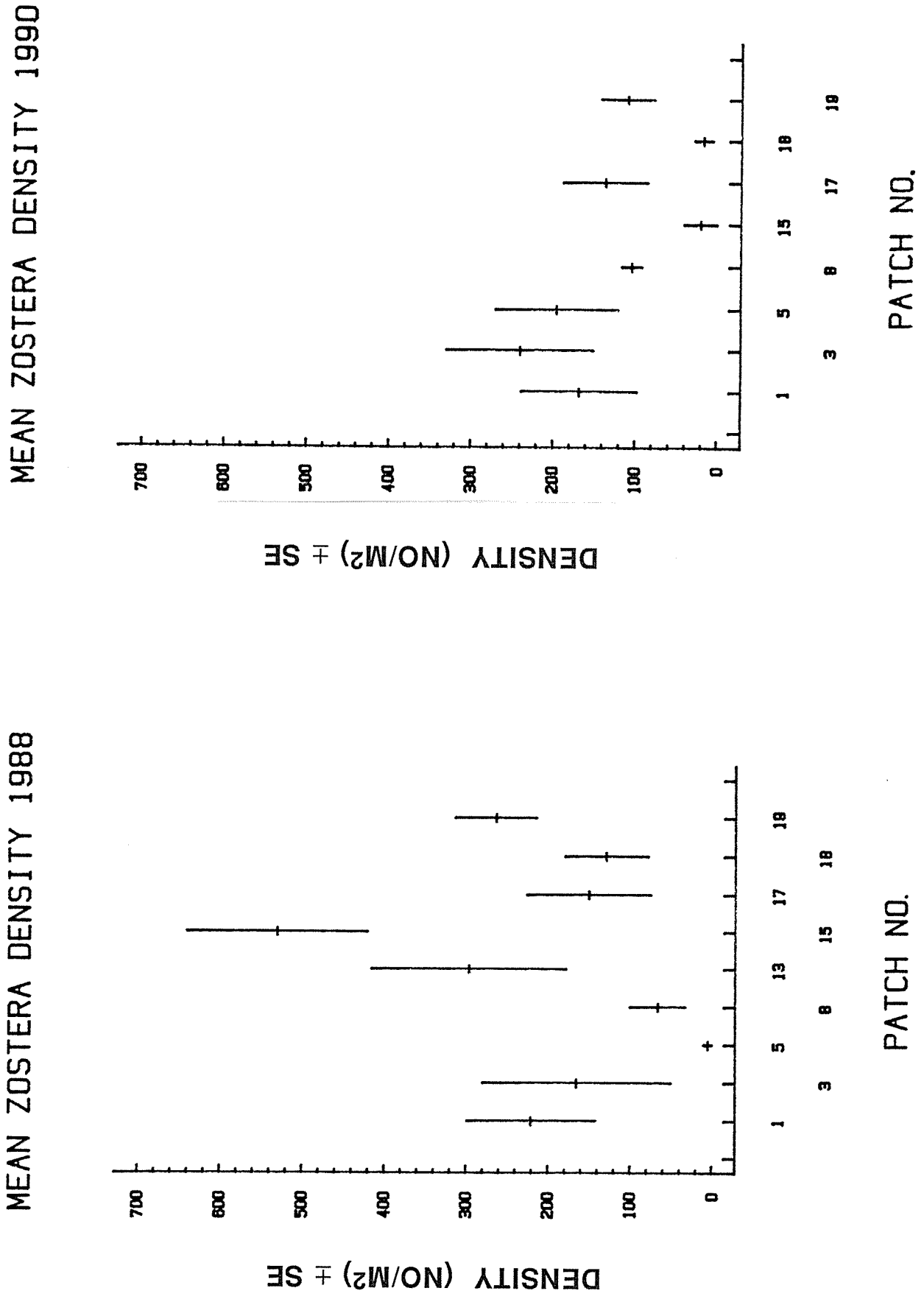

Figure 11. Mean eelgrass density (± 1 standard error) by patch number in 1988 and 1990.

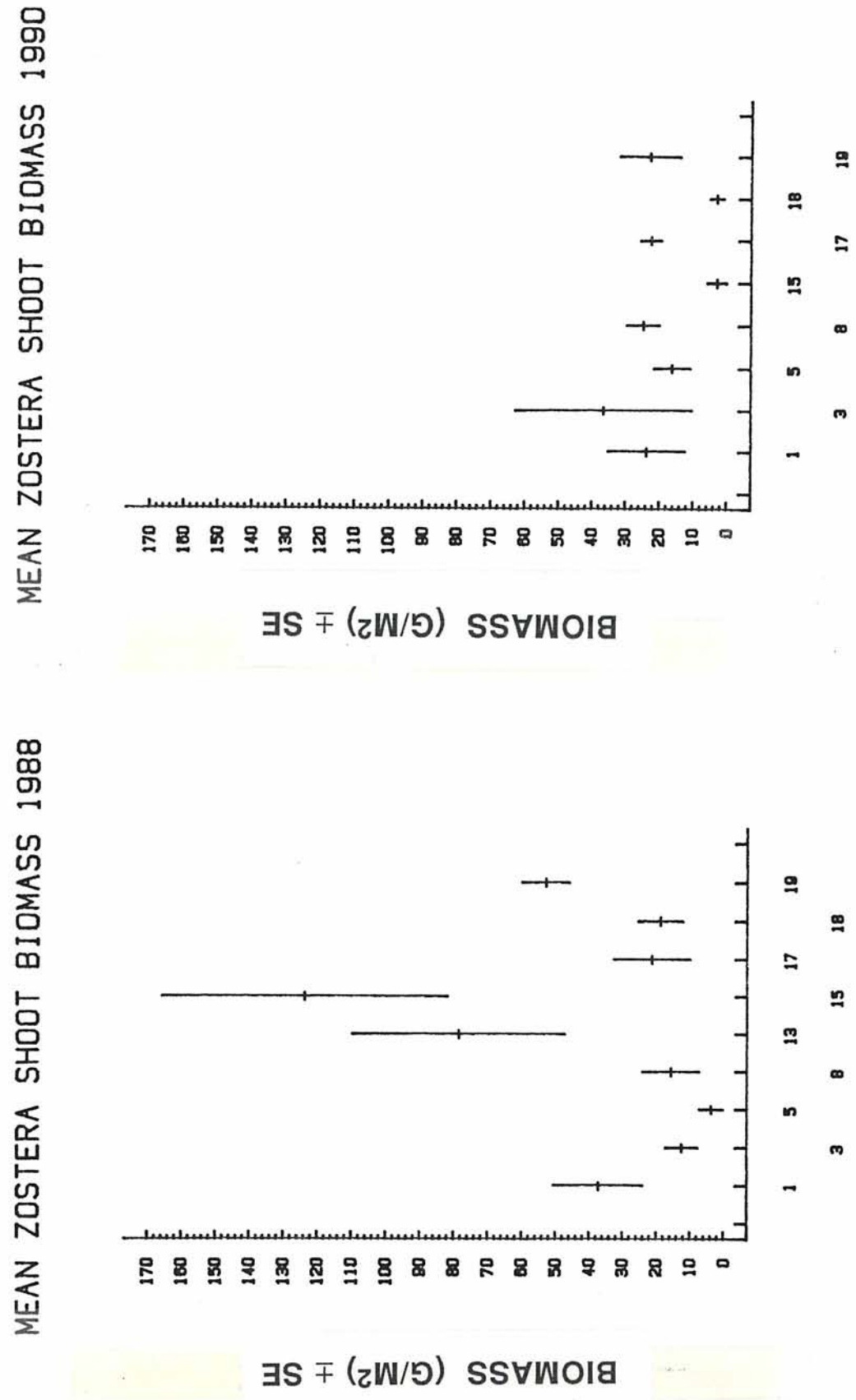

Figure 12. Mean eelgrass shoot biomass (± 1 standard error) by patch number in 1988 and 1990.

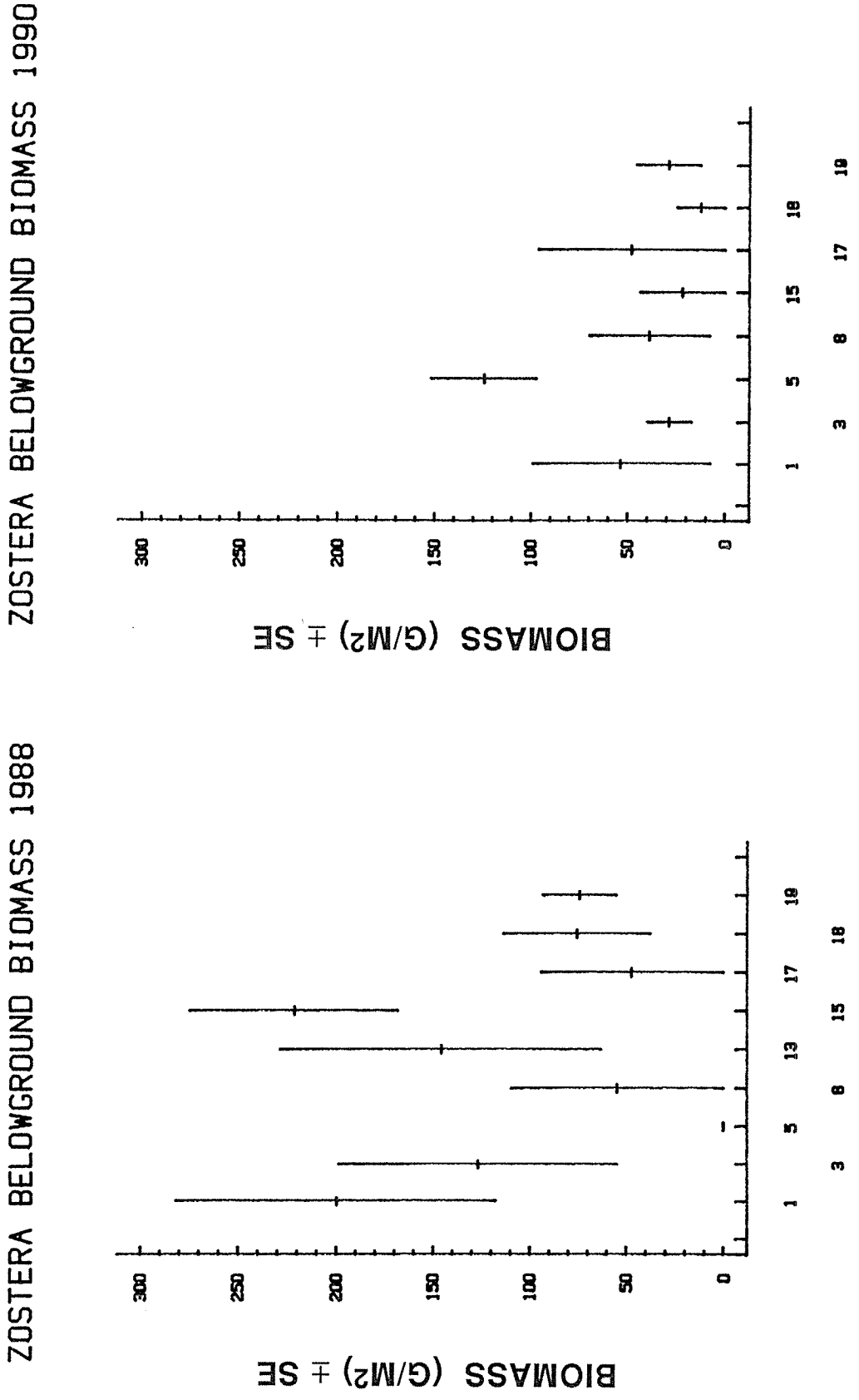

Figure 13. Mean eelgrass root+rhizome biomass (± 1 standard error) by patch number in 1988 and 1990.

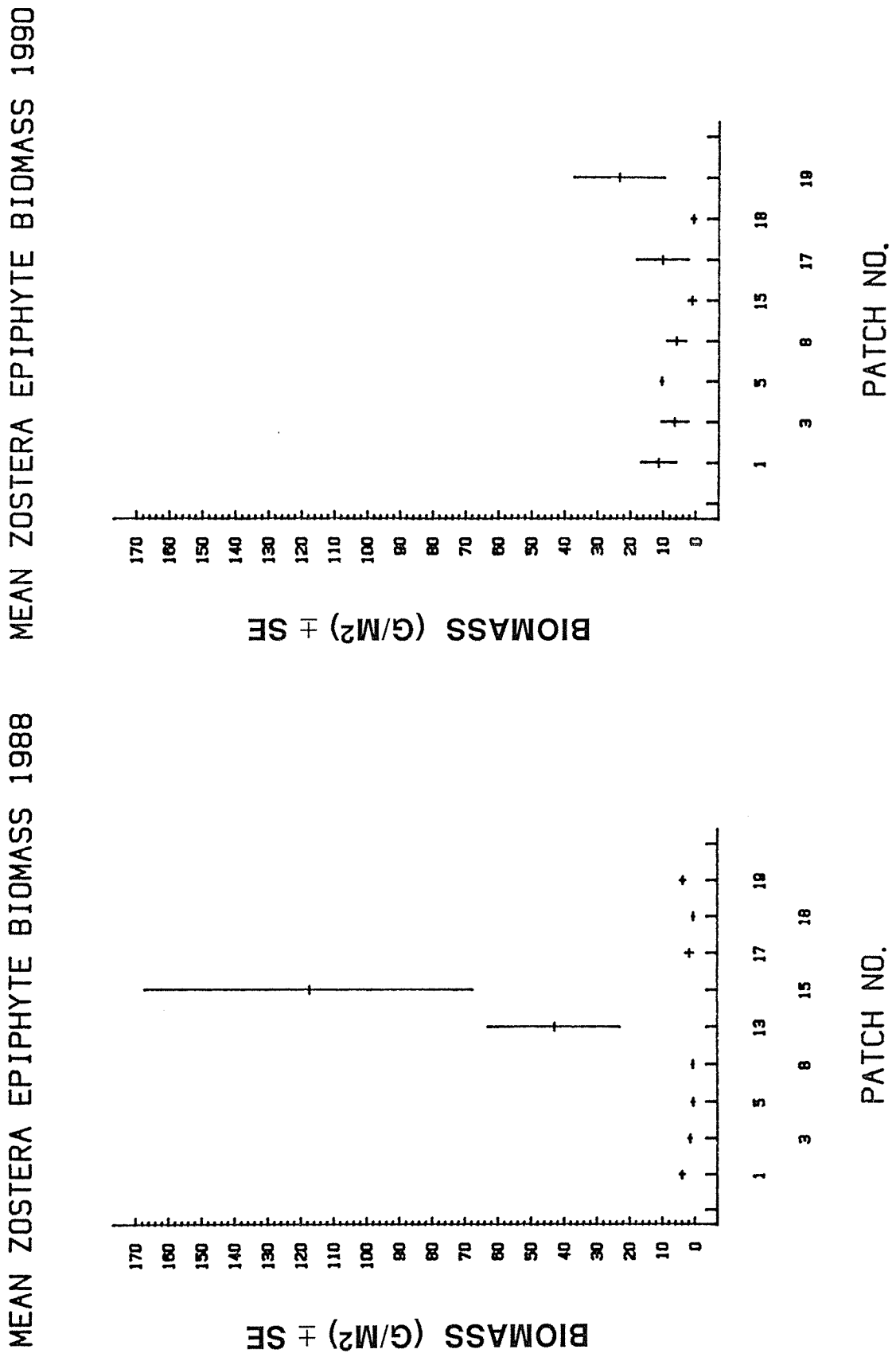

Figure 14. Mean eelgrass epiphyte biomass (± 1 standard error) by patch number in 1988 and 1990.

TABLES

Table 1. Means and standard deviations for selected substrata, macroalgae, bivalve, and eelgrass parameters for the entire study area.

Parameter	Units	1985 N	1985 Mean	1985 SD	1990 N	1990 Mean	1990 SD
Boulder cover	%	62	1.6	12.7	66	1.0	7.9
Cobble cover	%	62	25.9	26.0	66	43.8	44.1
Gravel cover	%	62	33.6	31.9	66	9.7	25.0
Sand cover	%	62	37.4	43.7	66	21.2	35.9
Macroalgae cover	%	62	12.5	24.6	66	11.1	19.0
Macroalgae dry wt.	g/0.1 m 2	62	2.395	5.888	66	0.924	2.066
P. staminea density	no./0.06 m^2	62	0.7	1.6	66	0.5	1.3
S. giganteus density	no./0.06 m^2	62	0.5	1.3	66	0.2	0.8
Tapes sp. density	no./0.06 m^2	62	0.02	0.13	66	0.03	0.17
Bivalve total density	no./0.06 m^2	62	2.20	3.81	66	1.33	2.66
Bivalve total dry wt.	g/0.06 m^2	62	29.132	65.398	66	13.609	38.224

Table 2. Summary statistics for selected parameters from sites in the area filled (F) and reference sites (R). Filled sites include sites at elevations from +8 to +4 ft MLLW along transects 2-9. Reference sites include all sites on transects 1 and 10, and sites from +2 to -2 ft MLLW along transects 2-9. The results of a t-test indicated that means were not significantly different between years for any of the parameters.

Parameter	Area	1985 N	1985 Mean	1985 SD	1990 N	1990 Mean	1990 SD
Total algal cover (%)	F	24	4.2	13.1	27	3.8	9.0
	R	38	17.7	28.6	39	16.1	22.3
Total algal biomass (g/0.1 m^2)	F	24	2.31	7.96	27	0.25	0.72
	R	38	2.44	4.21	39	1.39	2.53
Total bivalve dens. (no./0.06 m^2)	F	24	0.42	0.97	27	0.07	0.27
	R	38	3.34	4.47	39	2.21	3.18
Total bivalve biom. (g/0.06 m^2)	F	24	0.87	2.69	27	0.04	0.16
	R	38	46.98	78.75	39	23.00	47.73

Table 3. Summary statistics for selected eelgrass patch parameters from sites near the area filled (F) and reference sites (R). Patches in the vicinity of the fill included numbers 5-18; reference patches included numbers 1-4 and 19. Results of a t-test comparing 1988 with 1990 are indicated with significance (S) evaluated at p = 0.05. NS = not significant.

		1988			1990			
Parameter	Area	N	Mean	SD	N	Mean	SD	t-test
Shoot cover	F	24	32.0	34.0	17	11.1	11.6	S
(%)	R	16	63.4	30.9	16	15.8	15.7	S
Shoot density	F	24	167.9	192.2	16	78.1	82.3	NS
($No./m^2$)	R	16	240.6	151.2	16	140.6	116.4	NS
Shoot biomass	F	24	33.52	43.42	15	12.92	11.21	NS
(g/m^2)	R	16	43.83	25.22	16	24.70	26.52	NS
Root-rhizome biom.	F	24	83.98	115.99	15	41.88	56.54	NS
(g/m^2)	R	16	111.98	106.69	16	35.12	58.78	NS
Algal cover	F	24	34.9	33.0	17	52.2	43.5	NS
(%)	R	16	15.4	14.9	16	16.2	16.2	NS
Epiphyte biomass	F	24	15.71	38.75	17	4.49	6.85	S
(g/m^2)	R	16	3.54	2.18	16	18.24	35.03	S

APPENDIX

THE RAW DATA SET

Variable	Width	Type	Rank	Length	Date	Time	Comment
EJDATE	13	N	1	62	10/11/90	13:53	JUL.DATE 1=1 JAN 85
TRAMS85	13	N	1	62	10/11/90	13:53	NUMBERS 1-10 + 8.5
DIREC85	13	N	1	62	10/11/90	13:53	COMPASS READING
ELEV85	13	N	1	62	10/11/90	13:53	FT RELATIVE TO MLLW '85
DIST85	13	N	1	62	10/11/90	13:53	FEET RELATIVE TO SEAWALL
BOULCOV85	13	N	1	62	10/11/90	13:54	BOULDER % COVER '85
COBCOV85	13	N	1	62	10/11/90	13:54	COBBLE % COVER '85
GRAVCOV85	13	N	1	62	10/11/90	13:54	GRAVEL % COVER '85
SNDCOV85	13	N	1	62	10/11/90	13:54	SAND % COVER '85
MUDCOV85	13	N	1	62	10/11/90	13:54	MUD % COVER '85
SHELLCOV85	13	N	1	62	10/11/90	13:54	SHELL % COVER '85
BALGLCOV85	13	N	1	62	10/11/90	13:54	BAL.GLANDULUS % COVER '85
GIGCOV85	13	N	1	62	10/11/90	13:54	GIGARTINA % COVER '85
HILCOV85	13	N	1	62	10/11/90	13:54	HILDENBRANDIA % COVER '85
FUCCOV85	13	N	1	62	10/11/90	13:54	FUCUS % COVER '85
RALCOV85	13	N	1	62	10/11/90	13:54	RALFSIA % COVER '85
PETCOV85	13	N	1	62	10/11/90	13:54	PETROCELIS % COVER '85
BALCACOV85	13	N	1	62	10/11/90	13:54	BAL.CARIOSUS % COVER '85
ANTCOV85	13	N	1	62	10/11/90	13:55	ANTHOPLEURA % COVER '85
MYTCOV85	13	N	1	62	10/11/90	13:55	MYTILUS % COVER '85
ULVCOV85	13	N	1	62	10/11/90	13:55	ULVA FENES. % COVER '85
PORCOV85	13	N	1	62	10/11/90	13:55	PORPHYRA % COVER '85
CHACOV85	13	N	1	62	10/11/90	13:55	CHAETOMORPHA % COVER '85
LITCOV85	13	N	1	62	10/11/90	13:55	LITTORINA % COVER '85
ENTLCOV85	13	N	1	62	10/11/90	13:55	ENTEROMORPH.L.% COVER '85
PENCOV85	13	N	1	62	10/11/90	13:55	PETALONIA % COVER '85
BARCOV85	13	N	1	62	10/11/90	13:55	BARNACLE DEAD % COVER '85
ACMCOV85	13	N	1	62	10/11/90	13:55	ACMAEA % COVER '85
BRNCOV85	13	N	1	62	10/11/90	13:55	BROWN THICK CRUST % COV85
ENTICOV85	13	N	1	62	10/11/90	13:55	ENTEROMORPH.I.% COVER '85
IRICOV85	13	N	1	62	10/11/90	13:55	IRIDAEA % COVER '85
COLCOV85	13	N	1	62	10/11/90	13:55	COLLISELLA % COVER '85
DIACOV85	13	N	1	62	10/11/90	13:56	DIATOM % COVER '85
SARCOV85	13	N	1	62	10/11/90	13:56	SARGASSUM % COVER '85
POLCOV85	13	N	1	62	10/11/90	13:56	POLYSIPHONIA % COVER '85
GRACOV85	13	N	1	62	10/11/90	13:56	GRACILARIA % COVER '85
ENTICOV85	13	N	1	62	10/11/90	13:55	ENTEROMORPH.I.% COVER '85
IRICOV85	13	N	1	62	10/11/90	13:55	IRIDAEA % COVER '85
COLCOV85	13	N	1	62	10/11/90	13:55	COLLISELLA % COVER '85
DIACOV85	13	N	1	62	10/11/90	13:56	DIATOM % COVER '85
SARCOV85	13	N	1	62	10/11/90	13:56	SARGASSUM % COVER '85
POLCOV85	13	N	1	62	10/11/90	13:56	POLYSIPHONIA % COVER '85
GRACOV85	13	N	1	62	10/11/90	13:56	GRACILARIA % COVER '85
SGIGDN85	13	N	1	62	10/11/90	13:56	SAXIDOMUS GIG. #/.06M^2
SGIGWW85	13	N	1	62	10/11/90	13:56	S. GIG. WET WT. G/.06M^2
SGIGDW85	13	N	1	62	10/11/90	13:56	S.GIG.DRY WT. G/.06M^2
PSTMDN85	13	N	1	62	10/11/90	13:56	PROTOTHACA #/.06M^2 '85
PSTMWW85	13	N	1	62	10/11/90	13:56	PROTOTHACA WET WT.G/.06M2
PSTMDW85	13	N	1	62	10/11/90	13:56	PROTOTHACA DRY WT.G/.06M2
RHOCOV85	13	N	1	62	10/11/90	13:56	RHODOMELA % COVER '85
TCPXDN85	13	N	1	62	10/11/90	13:56	TRESUS CAPAX #/.06M^2
TCPXWW85	13	N	1	62	10/11/90	13:56	TRESUS WET WT G/.06M^2
TALGCV85	13	N	1	62	10/11/90	13:57	ALGAL COV, % OF TOTAL SUB
TREATMENT	7	C	2	62 7	10/11/90	13:57	F=FILL,R=REFERENCE

Variable	Width	Type	Rank	Length	Date	Time	Comment
TCPXDW85	13	N	1	62	10/ 6/90	17:28	TRESUS DRY WT G/.06M^2 85
CNUTDN85	13	N	1	62	10/ 6/90	17:28	CLINOCARDIUM #/.06M^2 '85
CNUTWW85	13	N	1	62	10/ 6/90	17:28	C.NUTTALLII WETWT G/.06M2
CNUTDW85	13	N	1	62	10/ 6/90	17:28	C.NUTTALLII DRYWT G/.06M2
MINQDN85	13	N	1	62	10/ 6/90	17:29	MACOMA INQ. #/.06M^2 '85
MINQWW85	13	N	1	62	10/ 6/90	17:29	M.INQUINATA WETWT G/.06M2
MINQDW85	13	N	1	62	10/ 6/90	17:29	M.INQUINATA DRYWT G/.06M2
MOBLDN85	13	N	1	62	10/ 6/90	17:29	MACOMA OBL. #/.06M^2 '85
MOBLWW85	13	N	1	62	10/ 6/90	17:29	M.OBLIQUA WETWT G/.06M^2
MOBLDW85	13	N	1	62	10/ 6/90	17:29	M.OBLIQUA DRYWT G/.06M^2
TJAPDN85	13	N	1	62	10/ 6/90	17:29	TAPES #/.06M^2 '85
TJAPWW85	13	N	1	62	10/ 6/90	17:29	T.JAPONICA WETWT G/.06M^2
TJAPDW85	13	N	1	62	10/ 6/90	17:29	T.JAPONICA DRYWT G/.06M^2
PTENDN85	13	N	1	62	10/ 6/90	17:29	PARVILUCINA #/.06M^2 '85
PTENWW85	13	N	1	62	10/ 6/90	17:29	P.TENUIS. WETWT G/.06M^2
PTENDW85	13	N	1	62	10/ 6/90	17:29	P.TENUIS. DRYWT G/.06M^2
MSPDN85	13	N	1	62	10/ 6/90	17:30	MACOMA SP. #/.06M^2 '85
MSPWW85	13	N	1	62	10/ 6/90	17:30	MACOMA SP. WETWT G/.06M^2
MOBLWW85	13	N	1	62	10/ 6/90	17:29	M.OBLIQUA WETWT G/.06M^2
MOBLDW85	13	N	1	62	10/ 6/90	17:29	M.OBLIQUA DRYWT G/.06M^2
TJAPDN85	13	N	1	62	10/ 6/90	17:29	TAPES #/.06M^2 '85
TJAPWW85	13	N	1	62	10/ 6/90	17:29	T.JAPONICA WETWT G/.06M^2
TJAPDW85	13	N	1	62	10/ 6/90	17:29	T.JAPONICA DRYWT G/.06M^2
PTENDN85	13	N	1	62	10/ 6/90	17:29	PARVILUCINA #/.06M^2 '85
PTENWW85	13	N	1	62	10/ 6/90	17:29	P.TENUIS. WETWT G/.06M^2
PTENDW85	13	N	1	62	10/ 6/90	17:29	P.TENUIS. DRYWT G/.06M^2
MSPDN85	13	N	1	62	10/ 6/90	17:30	MACOMA SP. #/.06M^2 '85
MSPWW85	13	N	1	62	10/ 6/90	17:30	MACOMA SP. WETWT G/.06M^2
MSPDW85	13	N	1	62	10/ 6/90	17:30	MACOMA SP. DRYWT G/.06M^2
FRAGWW85	13	N	1	62	10/ 6/90	17:30	FRAGMENTS WETWT G/.06M^2
FRAGDW85	13	N	1	62	10/ 6/90	17:30	FRAGMENTS DRYWT G/.06M^2
TBIVDN85	13	N	1	62	10/ 6/90	17:30	TOT.BIVALVE #/.06M^2 '85
TBIVWW85	13	N	1	62	10/ 6/90	17:30	TOT.BIV. WETWT G/.06M^2
TBIVDW85	13	N	1	62	10/ 6/90	17:30	TOT.BIV. DRYWT G/.06M^2
TBIVSP85	13	N	1	62	10/ 6/90	17:30	TOT.# BIVALVE SPECIES '85
VOLSOL85	13	N	1	62	10/ 6/90	17:30	VOL.SOLIDS ASH WT/DRY WT
ULVAWW85	13	N	1	62	10/11/90	13:44	ULVA WETWT G/.1M^2 '85
ULVADW85	13	N	1	62	10/11/90	13:45	ULVA DRYWT G/.1M^2 '85
FUCUWW85	13	N	1	62	10/11/90	13:45	FUCUS WETWT G/.1M^2 '85
FUCUDW85	13	N	1	62	10/11/90	13:45	FUCUS DRYWT G/.1M^2 '85
IRHTWW85	13	N	1	62	10/11/90	13:45	IRIDAEA WETWT G/.1M^2 '85
IRHTDW85	13	N	1	62	10/11/90	13:45	IRIDAEA DRYWT G/.1M^2 '85
PTBIWW85	13	N	1	62	10/11/90	13:45	PTERO.WETWT.G/.1M^2 '85
PTBIDW85	13	N	1	62	10/11/90	13:45	PTERO.DRYWT G/.1M^2 '85
DIATWW85	13	N	1	62	10/11/90	13:45	DIATOM WETWT G/.1M^2 '85
DIATDW85	13	N	1	62	10/11/90	13:45	DIATOM DRYWT G/.1M^2 '85
POSJWW85	13	N	1	62	10/11/90	13:45	PORPHYRA S.WETWT G/.1M285
POSJDW85	13	N	1	62	10/11/90	13:45	PORPHYRA S.DRYWT G/.1M285
PYPAWW85	13	N	1	62	10/11/90	13:46	POLYSI.WETWT G/.1M^2 '85
PYPADW85	13	N	1	62	10/11/90	13:46	POLYSI.DRYWT G/.1M^2 '85
ENINWW85	13	N	1	62	10/11/90	13:46	ENTER.I.WETWT G/.1M^2 '85
ENINDW85	13	N	1	62	10/11/90	13:46	ENTER.I.DRYWT G/.1M^2 '85
POMNWW85	13	N	1	62	10/11/90	13:46	PORPHYRA M.WETWT G/.1M285
POMNDW85	13	N	1	62	10/11/90	13:46	PORPHYRA M.DRYWT G/.1M285

Variable	Width	Type	Rank	Length	Date	Time	Comment
POMNDW85	13	N	1	62	10/11/90	13:46	PORPHYRA M.DRYWT G/.1M285
ENLZWW85	13	N	1	62	10/11/90	13:46	ENTER.L.WETWT G/.1M^2 '85
ENLZDW85	13	N	1	62	10/11/90	13:46	ENTER.L.DRYWT G/.1M^2 '85
GGPPWW85	13	N	1	62	10/11/90	13:46	GIGART. WETWT G/.1M^2 '85
GGPPDW85	13	N	1	62	10/11/90	13:46	GIGART. DRYWT G/.1M^2 '85
RHLXWW85	13	N	1	62	10/11/90	13:46	RHODOM. WETWT G/.1M^2 '85
RHLXDW85	13	N	1	62	10/11/90	13:46	RHODOM. DRYWT G/.1M^2 '85
UVFNWW85	13	N	1	62	10/11/90	13:47	ULVA F. WETWT G/.1M^2 '85
UVFNDW85	13	N	1	62	10/11/90	13:47	ULVA F. DRYWT G/.1M^2 '85
GRACWW85	13	N	1	62	10/11/90	13:47	GRACIL. WETWT G/.1M^2 '85
GRACDW85	13	N	1	62	10/11/90	13:47	GRACIL. DRYWT G/.1M^2 '85
SARGWW85	13	N	1	62	10/11/90	13:47	SARGAS. WETWT G/.1M^2 '85
SARGDW85	13	N	1	62	10/11/90	13:47	SARGAS. DRYWT G/.1M^2 '85
MICRWW85	13	N	1	62	10/11/90	13:47	MICROC. WETWT G/.1M^2 '85
MICRDW85	13	N	1	62	10/11/90	13:47	MICROC. DRYWT G/.1M^2 '85
TALWBM85	13	N	1	62	10/11/90	13:47	TOT.ALG.WET.BIOM.G/.1M285
TALDBM85	13	N	1	62	10/11/90	13:47	TOT.ALG.DRY.BIOM.G/.1M285
NOALSP85	13	N	1	62	10/11/90	13:47	TOT.#ALGAL SP./.1M^2 '85
EJDAY90	13	N	1	66	10/11/90	13:37	JUL.DATE 1=1 JAN 1985
TRANS90	13	N	1	66	10/11/90	13:37	NUMBERS 1-10 + 8.5
DIREC90	13	N	1	66	10/11/90	13:37	COMPASS READING FROM WALL
ELEV90	13	N	1	66	10/11/90	13:37	FT RELATIVE TO MLLW '90
BOULCOV90	13	N	1	66	10/11/90	13:37	BOULDER % COVER '90
COBCOV90	13	N	1	66	10/11/90	13:37	COBBLE % COVER '90
GRAVCOV90	13	N	1	66	10/11/90	13:37	GRAVEL % COVER '90
SNDCOV90	13	N	1	66	10/11/90	13:38	SAND % COVER '90
BALGLCOV90	13	N	1	66	10/11/90	13:38	BAL.GLANDULUS % COVER '90
FUCCOV90	13	N	1	66	10/11/90	13:38	FUCUS % COVER '90
RALCOV90	13	N	1	66	10/11/90	13:38	RALFSIA % COVER '90
ANTCOV90	13	N	1	66	10/11/90	13:38	ANTHOPLEURA % COVER '90
MYTCOV90	13	N	1	66	10/11/90	13:38	MYTILUS % COVER '90
ULVCOV90	13	N	1	66	10/11/90	13:38	ULVA FENES. % COVER '90
PORCOV90	13	N	1	66	10/11/90	13:38	PORPHYRA % COVER '90
LITCOV90	13	N	1	66	10/11/90	13:38	LITTORINA % COVER '90
ENTLCOV90	13	N	1	66	10/11/90	13:38	ENTEROMORPH.L.% COVER '90
PENCOV90	13	N	1	66	10/11/90	13:38	PETALONIA % COVER '90
ENTICOV90	13	N	1	66	10/11/90	13:39	ENTEROMORPH.I.% COVER '90
IRICOV90	13	N	1	66	10/11/90	13:39	IRIDAEA % COVER '90
COLCOV90	13	N	1	66	10/11/90	13:39	COLLISELLA % COVER 90
DIACOV90	13	N	1	66	10/11/90	13:39	DIATOM % COVER '90
RHOCOV90	13	N	1	66	10/11/90	13:39	RHODOMELA % COVER '90
PTBCOV90	13	N	1	66	10/11/90	13:39	PTEROSIPHONIA % COVER '90
PYPACOV90	13	N	1	66	10/11/90	13:39	POLYSIPHONIA % COVER '90
MASCOV90	13	N	1	66	10/11/90	13:39	MASTOCARPUS % COVER '90
SPOCOV90	13	N	1	66	10/11/90	13:39	SPONG. % COVER '90
LAMCOV90	13	N	1	66	10/11/90	13:39	LAMINARIA S. % COVER '90
GIGCOV90	13	N	1	66	10/11/90	13:39	GIGARTINA EX. % COVER '90
PTBIDW90	13	N	1	66	10/11/90	13:40	PTERO.DRYWT G/.1M^2 '90
FUCUDW90	13	N	1	66	10/11/90	13:40	FUCUS DRYWT G/.1M^2 '90
MONODW90	13	N	1	66	10/11/90	13:40	MONOST. DRYWT G/.1M^2 '90
POMNDW90	13	N	1	66	10/11/90	13:40	PORPHYRA M.DRYWT G/.1M290
IRHTDW90	13	N	1	66	10/11/90	13:40	IRIDAEA DRYWT G/.1M^2 '90
PYPADW90	13	N	1	66	10/11/90	13:40	POLYSI.DRYWT G/.1M^2 '90
ULVADW90	13	N	1	66	10/11/90	13:40	ULVA DRYWT G/.1M^2 '90

Variable	Width	Type	Rank	Length	Date	Time	Comment
CRYPDW90	13	N	1	66	10/11/90	13:40	CRYPTO. DRYWT G/.1M^2 '90
CERADW90	13	N	1	66	10/11/90	13:40	CERAMIUM DRYWT G/.1M^2 90
RHODDW90	13	N	1	66	10/11/90	13:40	RHODOM.DRYWT G/.1M^2 '90
MICRDW90	13	N	1	66	10/11/90	13:40	MICROC.DRYWT G/.1M^2 '90
MPAPDW90	13	N	1	66	10/11/90	13:41	
PRIODW90	13	N	1	66	10/11/90	13:41	
GRACDW90	13	N	1	66	10/11/90	13:41	GRACIL.DRYWT G/.1M^2 '90
MINQDN90	13	N	1	66	10/11/90	13:41	MACOMA INQ. #/.06 M^2 '90
PSTMDN90	13	N	1	66	10/11/90	13:41	PROTOTHACA #/.06M^2 '90
SGIGDN90	13	N	1	66	10/11/90	13:41	SAXIDOMUS #/.06M^2 '90
TJAPDN90	13	N	1	66	10/11/90	13:41	TAPES JAPON. #/.06M^2 '90
CNUTDN90	13	N	1	66	10/11/90	13:41	CLINOCARDIUM #/.06M^2 '90
MINQDW90	13	N	1	66	10/11/90	13:41	MACOMA DRYWT G/.06M^2 '90
PSTMDW90	13	N	1	66	10/11/90	13:41	PROTO.DRYWT G/.06M^2 '90
SGIGDW90	13	N	1	66	10/11/90	13:42	SAXID.DRYWT G/.06/M^2 '90
TJAPDW90	13	N	1	66	10/11/90	13:42	TAPES DRYWT G/.06M^2 '90
CNUTDW90	13	N	1	66	10/11/90	13:42	CLINO. DRYWT G/.06M^2 '90
TBIVDN90	13	N	1	66	10/11/90	13:42	*
MPAPDW90	13	N	1	66	10/11/90	13:41	
PRIODW90	13	N	1	66	10/11/90	13:41	
GRACDW90	13	N	1	66	10/11/90	13:41	GRACIL.DRYWT G/.1M^2 '90
MINQDN90	13	N	1	66	10/11/90	13:41	MACOMA INQ. #/.06 M^2 '90
PSTMDN90	13	N	1	66	10/11/90	13:41	PROTOTHACA #/.06M^2 '90
SGIGDN90	13	N	1	66	10/11/90	13:41	SAXIDOMUS #/.06M^2 '90
TJAPDN90	13	N	1	66	10/11/90	13:41	TAPES JAPON. #/.06M^2 '90
CNUTDN90	13	N	1	66	10/11/90	13:41	CLINOCARDIUM #/.06M^2 '90
MINQDW90	13	N	1	66	10/11/90	13:41	MACOMA DRYWT G/.06M^2 '90
PSTMDW90	13	N	1	66	10/11/90	13:41	PROTO.DRYWT G/.06M^2 '90
SGIGDW90	13	N	1	66	10/11/90	13:42	SAXID.DRYWT G/.06/M^2 '90
TJAPDW90	13	N	1	66	10/11/90	13:42	TAPES DRYWT G/.06M^2 '90
CNUTDW90	13	N	1	66	10/11/90	13:42	CLINO. DRYWT G/.06M^2 '90
TBIVDN90	13	N	1	66	10/11/90	13:42	*
TBIVDW90	13	N	1	66	10/11/90	13:42	*
TOTALGDW90	13	N	1	66	10/11/90	13:42	*
TOTALGCOV	13	N	1	66	10/11/90	13:42	
TREATMNT90	7	C	2	66	10/11/90	13:42	
EJDAY	13	N	1	88	12/10/88	16:35	JUL.DATE 1=1 JAN 85
TRANS90	13	N	1	88	9/17/90	16:10	NUMBERS 1-10 + 8.5
ELEV90	13	N	1	88	9/17/90	16:10	FT, RELATIVE TO MLLW, '90
MINQLN90	13	N	1	88	12/10/88	16:35	MACOMA LENGTH (CM) '90
MINQDW90	13	N	1	88	12/10/88	16:35	MACOMA DRYWT (G/.06M^2)90
PSTMLN90	13	N	1	88	12/10/88	16:35	PROTOTHACA LENGTH (CM)'90
PSTMDW90	13	N	1	88	12/10/88	16:35	PROTO.DRYWT.(G/.06M^2)'90
SGIGLN90	13	N	1	88	12/10/88	16:35	SAXIDOMUS LENGTH (CM) '90
SGIGDW90	13	N	1	88	12/10/88	16:35	SAX.DRYWT.(G/.06M^2) '90
TJAPLN90	13	N	1	88	12/10/88	16:35	TAPES J. LENGTH (CM) '90
TJAPDW90	13	N	1	88	12/10/88	16:35	TAPES DRYWT(G/.06M^2) '90
CNUTLN90	13	N	1	88	12/10/88	16:35	CLINOCARDIUM LNGTH(CM)'90
CNUTDW90	13	N	1	88	12/10/88	16:35	CLIN. DRYWT (G/.06M^2)'90

Variable	Width	Type	Rank	Length		Date	Time	Comment
PATCHNO	13	N	1	50		12/11/88	22:15	PATCH NUMBER 1-19
ELEV	13	N	1	50		12/11/88	21:08	FT MLLW OF PATCH CENTER
AREA	13	N	1	50		12/11/88	21:08	PATCH AREA M2
REP	13	N	1	50		12/11/88	22:15	W/IN PATCH REP. NO
SNDCOV88	13	N	1	50		12/11/88	21:08	SAND % COVER '88
GRAVCOV88	13	N	1	50		12/11/88	21:09	GRAVEL % COVER '88
SHELLCOV88	13	N	1	50		12/11/88	21:09	SHELL % COVER '88
ANTHOCOV88	13	N	1	50		12/11/88	21:09	ANTHOPLEURA % COVER '88
ZOSCOV88	13	N	1	50		12/11/88	21:09	ZOSTERA % COVER '88
ULVACOV88	13	N	1	50		12/11/88	21:09	ULVA % COVER '88
LAMCOV88	13	N	1	50		12/11/88	21:09	LAMINARIA % COVER '88
SARGCOV88	13	N	1	50		12/11/88	21:10	SARGASSUM % COVER '88
SMITHCOV88	13	N	1	50		12/11/88	21:10	SMITHORA % COVER '88
ALARCOV88	13	N	1	50		12/11/88	21:10	ALARIA % COVER '88
ZOSDEN88	13	N	1	50		12/11/88	21:10	ZOSTERA DENSITY NO/M2 '88
ZOSSHBM88	13	N	1	50		12/11/88	21:10	ZOSTERA SHOOT BIOM.G/M288
ZOSRTBM88	13	N	1	50		12/11/88	22:15	ZOSTERA ROOT BIOM.B/M2'88
ULVABM88	13	N	1	50		12/11/88	21:11	ULVA BIOM. G/M2 '88
LAMBM88	13	N	1	50		12/11/88	21:11	LAMINARIA BIOM. G/M2 '88
SARGBM88	13	N	1	50		12/11/88	21:11	SARGASSUM BIOM. G/M2 '88
EPIPHYBM88	13	N	1	50		12/11/88	21:11	EPIPHYTE BIOM. G/M2 '88
MICROBM88	13	N	1	50		12/11/88	21:11	MICROCLADIA BIOM.G/M2'88
CERAMBM88	13	N	1	50		12/11/88	21:11	CERAMIUM BIOM. G/M2 '88
MONOSBM88	13	N	1	50		12/11/88	21:11	MONOSTROMA BIOM. G/M2 '88
POLYSIBM88	13	N	1	50		12/11/88	21:12	POLYSIPHON.BIOM. G/M2 '88
ENTERBM88	13	N	1	50		12/11/88	21:12	ENTEROMORPH.BIOM.G/M2 '88
CLADOPBM88	13	N	1	50		12/11/88	21:12	CLADOPHORA BIOM.G/M2 '88
AGARDHBM88	13	N	1	50		12/11/88	21:12	AGARDHIELLA BIOM.G/M2 '88
GRACILBM88	13	N	1	50		12/11/88	21:12	GRACILARIA BIOM. G/M2 '88
ZOSMNDN88	13	N	1	9		12/11/88	21:12	MEAN ZOST. DEN/PATCH '88
PARCHMN88	13	N	1	9		12/11/88	21:13	PATCH# FOR MEANS PLOTS'88
ZOSMNSBM88	13	N	1	9		12/11/88	21:13	Z.MEAN SHT.BIOM/PATCH '88
EPIMNBM88	13	N	1	9		12/11/88	21:13	EPIPHY.MEAN BIOM/PATCH'88
ZOSMNCOV88	13	N	1	9		12/11/88	21:13	ZOS MEAN COVER/PATCH '88
TOTALGBM88	13	N	1	50		12/11/88	21:13	TOT.ALG BIOM/REP '88
MNAGBM88	13	N	1	9		12/11/88	21:13	MEAN ALG.BIOM/PATCH '88
EPIMNBM88	13	N	1	9		12/11/88	21:13	EPIPHY.MEAN BIOM/PATCH'88
ZOSMNCOV88	13	N	1	9		12/11/88	21:13	ZOS MEAN COVER/PATCH '88
TOTALGBM88	13	N	1	50		12/11/88	21:13	TOT.ALG BIOM/REP '88
MNAGBM88	13	N	1	9		12/11/88	21:13	MEAN ALG.BIOM/PATCH '88
MNALGCOV88	13	N	1	9		12/11/88	21:13	MEAN ALG. COV/PATCH '88
TOTALCOV88	13	N	1	50		12/11/88	21:14	TOTAL ALGAL COVER/REP '88
ZOSMNRBM88	13	N	1	9		12/11/88	21:14	ZOS MEAN ROOT BIOM. '88
TALBXEPI88	13	N	1	9		12/11/88	21:14	TOT.ALG.BIOM.EX.EPIPH '88
ZOSVARDN88	13	N	1	9		12/11/88	21:14	ZOS. DEN. VAR.TO MEAN '88
PTCHAREA88	13	N	1	9		12/11/88	21:14	PATCHAREA M2 FORMEANS '88
AREA90	13	N	1	50		12/11/88	21:24	ZOSTERA AREA M^2 '90
TOTALGCV90	13	N	1	50		12/11/88	21:14	ZOS.TOT.ALG.COV. '90
ZOSCOV90	13	N	1	50		12/11/88	21:15	ZOSTERA COVER '90
ZOSDEN90	13	N	1	50		12/11/88	21:15	ZOSTERA DENSITY '90
ZOSSHBM90	13	N	1	50		12/11/88	21:15	ZOS.SHOOT BIOM/PATCH '90
ZOSRTBM90	13	N	1	50		12/11/88	22:15	ZOS.ROOT BIOM/PATCH '90
EPIPHYBM90	13	N	1	50		12/11/88	21:15	EPIPHY.MEAN BIMO/PATCH'90
EELTREATMT	13	C	2	50	13	12/11/88	21:15	

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row	EJDATE	TRAMS85	DIREC85	ELEV85	DIST85	BOULCOV85	COBCOV85	GRAVCOV85	SNDCOV85
1	199	1.	275	8	5.1	0	0	0	100
2	199	1.	275	6	9.6	0	0	0	100
3	199	1.	275	4	14.2	0	0	28	60
4	199	1.	275	2	19.9	0	56	44	0
5	199	1.	275	0	26.8	0	44	32	0
6	199	1.	275	-2	36.1	0	74	26	0
7	197	2.	230	8	8.3	0	94	6	0
8	197	2.	230	6	19.0	0	44	56	0
9	197	2.	230	4	26.4	0	24	20	56
10	197	2.	230	2	36.6	0	38	62	0
11	197	2.	230	0	45.2	0	48	44	8
12	199	2.	230	-2	45.9	0	48	44	8
13	197	3.	197	8	7.2	0	48	52	0
14	197	3.	197	6	14.3	0	82	12	6
15	197	3.	197	4	28.7	0	10	0	88
16	197	3.	197	2	35.0	0	0	0	100
17	197	3.	197	0	42.6	0	4	0	96
18	199	3.	197	-2	50.0	0	0	0	100
19	197	4.	202	8	8.7	0	68	32	0
20	197	4.	202	6	16.1	0	10	6	76
21	197	4.	202	4	23.3	0	0	2	98
22	197	4.	202	2	30.7	0	14	0	86
23	197	4.	202	0	40.4	0	4	10	86
24	199	4.	202	-2	56.4	0	0	2	98
25	197	5.	195	8	4.8	0	50	50	0
26	197	5.	195	6	13.4	0	30	60	10
27	197	5.	195	4	23.5	0	24	14	62
28	197	5.	195	2	34.6	0	12	88	0
29	197	5.	195	0	46.9	0	12	42	6
30	199	5.	195	-2	56.5	0	2	0	94
31	197	6.	200	8	6.8	0	90	10	0
32	197	6.	200	6	13.2	100	0	0	0
33	197	6.	200	4	23.6	0	30	44	26
34	197	6.	200	2	33.0	0	14	86	0
35	197	6.	200	0	42.7	0	84	4	12
36	199	6.	200	-2	52.0	0	0	2	98
37	198	7.	203	8	0.0	0	0	0	100
38	198	7.	203	6	5.4	0	34	66	0
39	198	7.	203	4	14.3	0	22	78	0
40	198	7.	203	2	23.2	0	36	64	0
41	198	7.	203	0	31.6	0	32	68	0
42	198	7.	203	-2	40.2	0	0	0	100
43	198	8.	205	8	0.0	0	0	8	92
44	198	8.	205	6	5.8	0	20	80	0
45	198	8.	205	4	15.2	0	28	72	0
46	198	8.	205	2	24.6	0	48	52	0
47	198	8.	205	0	32.9	0	60	40	0
48	198	8.	205	-2	41.7	0	26	0	74
49	198	9.	210	8	12.9	0	16	84	0
50	198	9.	210	6	18.3	0	48	52	0
51	198	9.	210	4	26.6	0	50	50	0
52	198	9.	210	2	38.2	0	38	62	0
53	198	9.	210	0	51.8	0	30	70	0
54	198	9.	210	-2	66.0	0	28	66	6
55	199	10.	242	8	12.8	0	0	0	100
56	199	10.	242	6	17.5	0	0	100	0
57	199	10.	242	4	22.6	0	0	100	0

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row	EJDATE	TRAMS85	DIREC85	ELEV85	DIST85	BOULCOV85	COBCOV85	GRAVCOV85	SNDCOV85
58	199	10.	242	2	27.6	0	0	80	20
59	199	10.	242	0	50.6	0	0	0	100
60	199	10.	242	-2	72.7	0	0	0	100
61	198	9.	207	-2	55.4	0	14	8	78
62	198	9.	207	0	34.4	0	18	6	76

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row	MUDCOV85	SHELLCOV85	BALGLCOV85	GIGCOV85	HILCOV85	FUCCOV85	RALCOV85
1	0	0	0.	0.	0.0	0.	0
2	0	0	0.	0.	0.0	0.	0
3	0	0	0.	0.	0.0	0.	0
4	0	0	6.	0.	0.2	0.	0
5	0	0	0.	0.	0.0	12.	1
6	0	0	0.	0.	0.2	0.	0
7	0	0	0.	0.	0.0	0.	0
8	0	0	0.	0.	0.0	0.	0
9	0	0	18.	0.	0.0	0.	0
10	0	0	16.	0.	0.0	0.	0
11	0	0	0.	0.	0.0	0.	0
12	0	0	0.	0.	0.0	0.	0
13	0	0	0.	0.	0.0	0.	0
14	0	0	8.	0.	0.0	0.	0
15	0	0	0.	0.	0.0	0.	0
16	0	0	0.	0.	0.0	0.	0
17	0	0	0.	0.	0.0	0.	0
18	0	0	0.	0.	0.0	0.	0
19	0	0	0.	0.	0.0	0.	0
20	0	0	8.	0.	0.0	0.	0
21	0	0	0.	0.	0.0	0.	0
22	0	0	2.	0.	0.0	0.	0
23	0	0	0.	0.	0.0	2.	0
24	0	0	0.	0.	0.2	0.	0
25	0	0	0.	0.	0.0	0.	0
26	0	0	10.	0.	0.0	62.	0
27	0	0	0.	0.	0.0	10.	0
28	0	0	0.	0.	0.0	18.	0
29	0	0	2.	0.	0.0	0.	0
30	0	4	0.	0.	0.0	0.	0
31	0	0	0.	0.	0.0	0.	0
32	0	0	0.	0.	0.0	0.	0
33	0	0	8.	0.	0.0	0.	0
34	0	0	0.	0.	0.0	0.	0
35	0	0	0.	0.	0.0	8.	0
36	0	0	0.	0.	0.0	0.	0
37	0	0	0.	0.	0.0	0.	0
38	0	0	4.	0.	0.0	0.	0
39	0	0	18.	0.	0.0	0.	0
40	0	0	16.	6.	0.0	0.	0
41	0	0	24.	0.	0.0	0.	0
42	0	0	0.	0.	0.0	0.	0
43	0	0	0.	0.	0.0	0.	0
44	0	0	0.	0.	0.0	0.	0
45	0	0	4.	0.	0.0	0.	0
46	0	0	24.	0.	0.2	0.	0
47	0	0	26.	0.	0.2	0.	0
48	0	0	0.	0.	0.0	0.	0
49	0	0	0.	0.	0.0	0.	0
50	0	0	10.	0.	0.0	0.	0
51	0	0	42.	0.	0.0	0.	0
52	0	0	26.	0.	0.0	0.	0
53	0	0	24.	0.	0.2	0.	0
54	0	0	0.	2.	0.2	0.	0
55	0	0	0.	0.	0.0	0.	0
56	0	0	0.	0.	0.0	0.	0
57	0	0	0.	0.	0.0	0.	0

row	MUDCOV85	SHELLCOV85	BALGLCOV85	GIGCOV85	HILCOV85	FUCCOV85	RALCOV85
58	10	0	0.	0.	0.0	0.	0
59	50	0	0.	0.	0.0	0.	0
60	50	0	0.	0.	0.0	0.	0
61	0	0	0.	0.	0.2	0.	0
62	0	0	0.	0.	0.0	0.	0

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row	PETCOV85	BALCACOV85	ANTCOV85	MYTCOV85	ULVCOV85	PORCOV85	CHACOV85	LITCOV85
1	0.	0.	0.	0.	0.	0.	0.0	0.0
2	0.	0.	0.	0.	0.	0.	0.0	0.0
3	0.	0.	0.	0.	0.	0.	0.0	0.0
4	0.	0.	0.	0.	0.	0.	0.0	0.0
5	0.	10.	0.	0.	0.	0.	0.0	0.0
6	2.	0.	0.	0.	46.	0.	0.0	0.0
7	0.	0.	0.	0.	0.	0.	0.0	0.0
8	0.	0.	0.	0.	0.	0.	0.0	0.0
9	0.	0.	0.	0.	0.	0.	0.0	0.2
10	0.	0.	0.	0.	2.	4.	0.2	0.2
11	0.	0.	0.	0.	74.	14.	0.0	0.0
12	0.	0.	0.	0.	0.	0.	0.0	0.0
13	0.	0.	0.	0.	0.	0.	0.0	0.0
14	0.	0.	0.	0.	0.	0.	0.0	0.0
15	0.	0.	0.	0.	0.	0.	0.0	0.2
16	0.	0.	2.	0.	6.	0.	0.0	0.0
17	0.	0.	0.	0.	6.	0.	0.0	0.0
18	0.	0.	0.	0.	0.	0.	0.0	0.0
19	0.	0.	0.	0.	0.	0.	0.0	0.0
20	0.	0.	0.	0.	0.	0.	0.0	0.0
21	0.	0.	0.	0.	0.	0.	0.0	0.0
22	0.	0.	0.	0.	0.	0.	0.0	0.0
23	0.	2.	0.	0.	0.	0.	0.0	0.0
24	0.	0.	0.	0.	0.	0.	0.0	0.0
25	0.	0.	0.	0.	0.	0.	0.0	0.0
26	0.	0.	2.	6.	0.	0.	0.0	0.0
27	0.	2.	2.	6.	0.	0.	0.0	0.0
28	0.	4.	0.	0.	0.	0.	0.0	0.0
29	6.	0.	0.	2.	0.	0.	0.0	0.0
30	0.	0.	0.	0.	0.	0.	0.0	0.0
31	0.	0.	0.	0.	0.	0.	0.0	0.0
32	0.	0.	0.	0.	0.	0.	0.0	0.0
33	0.	0.	0.	2.	18.	0.	0.0	0.0
34	0.	0.	0.	0.	0.	0.	0.0	0.0
35	10.	0.	0.	0.	30.	0.	0.0	0.0
36	0.	0.	0.	0.	0.	0.	0.0	0.0
37	0.	0.	0.	0.	0.	0.	0.0	0.0
38	0.	0.	0.	0.	0.	0.	0.0	0.2
39	0.	0.	0.	0.	0.	0.	0.0	0.2
40	0.	0.	0.	0.	0.	0.	0.0	0.2
41	0.	4.	0.	0.	0.	2.	0.0	0.2
42	0.	0.	0.	0.	0.	0.	0.0	0.0
43	0.	0.	0.	0.	0.	0.	0.0	0.0
44	0.	0.	0.	0.	0.	0.	0.0	0.0
45	0.	0.	2.	0.	0.	0.	0.0	0.0
46	0.	0.	0.	0.	0.	2.	0.0	0.2
47	2.	0.	0.	0.	6.	0.	0.0	0.2
48	0.	0.	2.	0.	8.	0.	0.0	0.0
49	0.	0.	0.	0.	0.	0.	0.0	0.0
50	0.	0.	0.	0.	0.	0.	0.0	0.2
51	0.	0.	0.	0.	0.	8.	0.0	0.2
52	0.	6.	0.	0.	0.	0.	0.0	0.0
53	0.	0.	0.	0.	24.	0.	0.0	0.2
54	0.	0.	0.	0.	66.	0.	0.0	0.0
55	0.	0.	0.	0.	0.	0.	0.0	0.0
56	0.	0.	0.	0.	0.	0.	0.0	0.0
57	0.	0.	0.	0.	0.	0.	0.0	0.0

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row	PETCOV85	BALCACOV85	ANTCOV85	MYTCOV85	ULVCOV85	PORCOV85	CHACOV85	LITCOV85
58	0.	0.	0.	0.	6.	0.	0.0	0.0
59	0.	0.	0.	0.	0.	0.	0.0	0.0
60	0.	0.	0.	0.	0.	0.	0.0	0.0
61	0.	0.	4.	0.	96.	0.	0.0	0.0
62	0.	0.	0.	0.	20.	0.	0.0	0.0

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row	ENTLCOV85	PENCOV85	BARCOV85	ACMCOV85	BRNCOV85	ENTICOV85	IRICOV85	COLCOV85
1	0.	0	0	0.0	0.0	0.	0.	0.0
2	0.	0	0	0.0	0.0	0.	0.	0.0
3	0.	0	0	0.0	0.0	0.	0.	0.0
4	0.	0	0	0.0	0.0	0.	0.	0.0
5	0.	0	0	0.0	0.0	0.	0.	0.0
6	0.	0	0	0.0	0.0	0.	0.	0.0
7	0.	0	0	0.0	0.0	0.	0.	0.0
8	0.	0	0	0.0	0.0	0.	0.	0.0
9	0.	0	0	0.0	0.0	0.	0.	0.0
10	0.	0	0	0.0	0.0	0.	0.	0.0
11	0.	0	0	0.0	0.0	0.	0.	0.0
12	88.	6	0	0.0	0.0	0.	0.	0.0
13	0.	0	0	0.0	0.0	0.	0.	0.0
14	0.	0	0	0.0	0.0	0.	0.	0.0
15	0.	0	2	0.2	0.0	0.	0.	0.0
16	0.	0	0	0.0	0.0	0.	0.	0.0
17	0.	0	8	0.0	0.0	0.	0.	0.0
18	0.	0	0	0.0	0.0	0.	0.	0.0
19	0.	0	0	0.0	0.0	0.	0.	0.0
20	0.	0	0	0.0	0.0	0.	0.	0.0
21	0.	0	0	0.0	0.0	0.	0.	0.0
22	0.	0	0	0.0	0.0	0.	0.	0.0
23	0.	0	0	0.0	0.2	0.	0.	0.0
24	0.	0	0	0.0	0.0	0.	0.	0.0
25	0.	0	0	0.0	0.0	0.	0.	0.0
26	0.	0	0	0.0	0.0	0.	0.	0.0
27	0.	0	0	0.0	0.0	0.	0.	0.0
28	46.	0	0	0.0	0.0	0.	0.	0.0
29	0.	0	0	0.0	0.0	0.	12.	0.2
30	24.	0	0	0.0	0.0	0.	0.	0.0
31	0.	0	0	0.0	0.0	0.	0.	0.0
32	0.	0	0	0.0	0.0	0.	0.	0.0
33	0.	0	0	0.0	0.0	0.	0.	0.0
34	0.	0	0	0.0	0.0	0.	0.	0.0
35	2.	0	0	0.0	0.0	0.	0.	0.0
36	0.	0	0	0.0	0.0	0.	0.	0.0
37	0.	0	0	0.0	0.0	0.	0.	0.0
38	0.	0	0	0.0	0.0	0.	0.	0.0
39	0.	0	0	0.0	0.0	0.	0.	0.0
40	0.	0	0	0.0	0.0	0.	0.	0.0
41	0.	0	0	0.0	0.0	0.	0.	0.0
42	0.	0	0	0.0	0.0	0.	0.	0.0
43	0.	0	0	0.0	0.0	0.	0.	0.0
44	0.	0	0	0.0	0.0	0.	0.	0.0
45	0.	0	0	0.0	0.0	0.	0.	0.0
46	0.	0	0	0.0	0.0	0.	0.	0.0
47	0.	0	0	0.0	0.0	0.	0.	0.0
48	0.	0	0	0.0	0.0	6.	0.	0.0
49	0.	0	0	0.0	0.0	0.	0.	0.0
50	0.	0	0	0.0	0.0	0.	0.	0.0
51	0.	0	0	0.0	0.0	0.	0.	0.0
52	0.	0	0	0.0	0.0	0.	0.	0.0
53	0.	0	0	0.0	0.0	0.	0.	0.2
54	0.	0	0	0.0	0.0	0.	0.	0.0
55	0.	0	0	0.0	0.0	0.	0.	0.0
56	0.	0	0	0.0	0.0	0.	0.	0.0
57	0.	0	0	0.0	0.0	0.	0.	0.0

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row	ENTLCOV85	PENCOV85	BARCOV85	ACMCOV85	BRNCOV85	ENTICOV85	IRICOV85	COLCOV85
58	0.	0	0	0.0	0.0	0.	0.	0.0
59	0.	0	0	0.0	0.0	0.	0.	0.0
60	0.	0	0	0.0	0.0	0.	0.	0.0
61	0.	0	0	0.0	0.0	0.	0.	0.0
62	0.	0	0	0.0	0.0	0.	0.	0.0

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row	DIACOV85	SARCOV85	POLCOV85	GRACOV85	SGIGDN85	SGIGWW85	SGIGDW85	PSTMDN85
1	0.	0	0.0	0.0	0	0.000	0.000	0
2	0.	0	0.0	0.0	0	0.000	0.000	0
3	0.	0	0.0	0.0	0	0.000	0.000	0
4	0.	0	0.0	0.0	0	0.000	0.000	0
5	0.	0	0.0	0.0	7	61.340	38.148	1
6	0.	0	0.0	0.0	2	200.309	134.709	1
7	0.	0	0.0	0.0	0	0.000	0.000	0
8	0.	0	0.0	0.0	0	0.000	0.000	0
9	0.	0	0.0	0.0	0	0.000	0.000	0
10	0.	0	0.0	0.0	0	0.000	0.000	1
11	0.	0	0.0	0.0	4	397.356	260.156	1
12	0.	0	0.0	0.0	2	40.323	25.439	4
13	0.	0	0.0	0.0	0	0.000	0.000	0
14	0.	0	0.0	0.0	0	0.000	0.000	0
15	0.	0	0.0	0.0	0	0.000	0.000	0
16	0.	0	0.0	0.0	0	0.000	0.000	0
17	0.	0	0.0	0.0	0	0.000	0.000	0
18	0.	0	0.0	0.0	0	0.000	0.000	0
19	0.	0	0.0	0.0	0	0.000	0.000	0
20	0.	0	0.0	0.0	0	0.000	0.000	0
21	0.	0	0.0	0.0	0	0.000	0.000	2
22	0.	0	0.0	0.0	0	0.000	0.000	0
23	0.	0	0.0	0.0	0	0.000	0.000	0
24	0.	0	0.0	0.0	0	0.000	0.000	0
25	0.	0	0.0	0.0	0	0.000	0.000	0
26	0.	0	0.0	0.0	2	0.385	0.350	0
27	2.	0	0.0	0.0	0	0.000	0.000	2
28	0.	0	0.0	0.0	1	28.172	17.538	5
29	0.	0	0.0	0.0	3	100.635	62.674	5
30	0.	0	0.0	0.0	0	0.000	0.000	0
31	0.	0	0.0	0.0	0	0.000	0.000	0
32	0.	0	0.0	0.0	0	0.000	0.000	0
33	0.	0	0.0	0.0	1	0.559	0.360	0
34	0.	0	0.0	0.0	0	0.000	0.000	3
35	0.	0	0.0	0.0	3	29.342	18.431	0
36	0.	38	0.0	0.0	0	0.000	0.000	0
37	0.	0	0.0	0.0	0	0.000	0.000	0
38	0.	0	0.0	0.0	0	0.000	0.000	0
39	0.	0	0.0	0.0	0	0.000	0.000	0
40	0.	0	0.0	0.0	0	0.000	0.000	0
41	0.	0	0.0	0.0	1	6.213	3.706	1
42	0.	0	0.0	0.0	0	0.000	0.000	0
43	0.	0	0.0	0.0	0	0.000	0.000	0
44	0.	0	0.0	0.0	0	0.000	0.000	0
45	0.	0	0.0	0.0	0	0.000	0.000	1
46	0.	0	0.0	0.0	0	0.000	0.000	0
47	0.	0	0.0	0.0	2	7.510	4.175	9
48	0.	0	0.0	0.0	0	0.000	0.000	1
49	0.	0	0.0	0.0	0	0.000	0.000	0
50	0.	0	0.0	0.0	0	0.000	0.000	0
51	0.	0	0.0	0.0	0	0.000	0.000	0
52	0.	0	0.0	0.0	0	0.000	0.000	3
53	0.	0	0.0	0.0	4	326.427	235.857	2
54	0.	0	0.2	0.0	1	284.351	199.189	1
55	0.	0	0.0	0.0	0	0.000	0.000	0
56	0.	0	0.0	0.0	0	0.000	0.000	0
57	0.	0	0.0	0.0	0	0.000	0.000	0

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row	DIACOV85	SARCOV85	POLCOV85	GRACOV85	SGIGDN85	SGIGWW85	SGIGDW85	PSTMDN85
58	0.	0	0.0	0.0	0	0.000	0.000	0
59	0.	0	0.0	0.0	0	0.000	0.000	0
60	0.	0	0.0	0.0	0	0.000	0.000	0
61	0.	0	0.0	0.2	0	0.000	0.000	0
62	0.	0	0.0	0.0	0	0.000	0.000	0

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row	PSTMWW85	PSTMDW85	RHOCOV85	TCPXDN85	TCPXWW85	TALGCV85	TREATMENT
1	0.000	0.000	0	0	0.000	0.0	R
2	0.000	0.000	0	0	0.000	0.0	R
3	0.000	0.000	0	0	0.000	0.2	R
4	0.000	0.000	0	0	0.000	0.4	R
5	13.426	8.884	0	0	0.000	14.4	R
6	3.456	2.319	0	0	0.000	48.4	R
7	0.000	0.000	0	0	0.000	0.0	F
8	0.000	0.000	0	0	0.000	0.0	F
9	0.000	0.000	0	0	0.000	0.2	F
10	3.816	2.485	0	0	0.000	6.1	R
11	26.928	15.718	0	0	0.000	88.2	R
12	39.374	26.911	0	0	0.000	94.0	R
13	0.000	0.000	0	0	0.000	0.0	F
14	0.000	0.000	0	0	0.000	0.0	F
15	0.000	0.000	0	0	0.000	0.0	F
16	0.000	0.000	0	0	0.000	6.0	R
17	0.000	0.000	0	2	117.451	6.0	R
18	0.000	0.000	0	0	0.000	0.0	R
19	0.000	0.000	0	0	0.000	0.0	F
20	0.000	0.000	0	0	0.000	0.0	F
21	13.797	10.261	0	0	0.000	0.0	F
22	0.000	0.000	0	0	0.000	0.0	R
23	0.000	0.000	0	0	0.000	0.6	R
24	0.000	0.000	0	0	0.000	0.4	R
25	0.000	0.000	0	0	0.000	0.0	F
26	0.000	0.000	0	0	0.000	62.0	F
27	0.000	0.000	0	0	0.000	12.2	F
28	89.373	60.705	0	2	83.492	64.2	R
29	110.615	72.894	0	2	121.808	18.4	R
30	0.000	0.000	0	0	0.000	24.0	R
31	0.000	0.000	0	0	0.000	0.0	F
32	0.000	0.000	0	0	0.000	0.2	F
33	0.000	0.000	0	0	0.000	18.0	F
34	16.760	10.712	1	1	76.403	2.0	R
35	0.000	0.000	0	0	0.000	50.2	R
36	0.000	0.000	0	0	0.000	0.0	R
37	0.000	0.000	0	0	0.000	0.0	F
38	0.000	0.000	0	0	0.000	0.0	F
39	0.000	0.000	0	0	0.000	0.0	F
40	0.000	0.000	0	0	0.000	6.0	R
41	7.537	4.568	0	1	1.067	2.4	R
42	0.000	0.000	0	0	0.000	0.0	R
43	0.000	0.000	0	0	0.000	0.0	F
44	0.000	0.000	0	0	0.000	0.0	F
45	1.367	0.980	0	0	0.000	0.0	F
46	0.000	0.000	0	0	0.000	2.4	R
47	92.059	61.416	0	0	0.000	8.8	R
48	2.157	1.340	0	0	0.000	14.4	R
49	0.000	0.000	0	0	0.000	0.0	F
50	0.000	0.000	0	0	0.000	0.0	F
51	0.000	0.000	0	0	0.000	8.2	F
52	22.241	15.121	0	0	0.000	0.4	R
53	41.639	27.533	0	0	0.000	24.6	R
54	30.990	20.800	0	0	0.000	68.4	R
55	0.000	0.000	0	0	0.000	0.0	R
56	0.000	0.000	0	0	0.000	0.0	R
57	0.000	0.000	0	0	0.000	0.0	R

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row	PSTMWW85	PSTMDW85	RHOCOV85	TCPXDN85	TCPXWW85	TALGCV85	TREATMENT
58	0.000	0.000	0	0	0.000	6.0	R
59	0.000	0.000	0	0	0.000	0.0	R
60	0.000	0.000	0	0	0.000	0.0	R
61	0.000	0.000	0	0	0.000	96.2	R
62	0.000	0.000	0	0	0.000	20.0	R

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row	TCPXDW85	CNUTDN85	CNUTWW85	CNUTDW85	MINQDN85	MINQWW85	MINQDW85	MOBLDN85
1	0.00	0	0.000	0.000	0	0.000	0.000	0
2	0.00	0	0.000	0.000	0	0.000	0.000	0
3	0.00	0	0.000	0.000	0	0.000	0.000	0
4	0.00	0	0.000	0.000	0	0.000	0.000	0
5	0.00	0	0.000	0.000	0	0.000	0.000	0
6	0.00	0	0.000	0.000	1	2.902	2.166	0
7	0.00	0	0.000	0.000	0	0.000	0.000	0
8	0.00	0	0.000	0.000	0	0.000	0.000	0
9	0.00	0	0.000	0.000	0	0.000	0.000	0
10	0.00	0	0.000	0.000	0	0.000	0.000	0
11	0.00	0	0.000	0.000	0	0.000	0.000	0
12	0.00	1	22.881	13.736	0	0.000	0.000	0
13	0.00	0	0.000	0.000	0	0.000	0.000	0
14	0.00	0	0.000	0.000	0	0.000	0.000	0
15	0.00	0	0.000	0.000	0	0.000	0.000	0
16	0.00	0	0.000	0.000	0	0.000	0.000	0
17	72.36	0	0.000	0.000	3	10.470	6.797	0
18	0.00	0	0.000	0.000	0	0.000	0.000	0
19	0.00	0	0.000	0.000	0	0.000	0.000	0
20	0.00	0	0.000	0.000	0	0.000	0.000	0
21	0.00	0	0.000	0.000	0	0.000	0.000	0
22	0.00	0	0.000	0.000	1	2.908	1.866	0
23	0.00	0	0.000	0.000	1	3.189	2.235	1
24	0.00	0	0.000	0.000	0	0.000	0.000	0
25	0.00	0	0.000	0.000	0	0.000	0.000	0
26	0.00	0	0.000	0.000	0	0.000	0.000	0
27	0.00	0	0.000	0.000	0	0.000	0.000	0
28	42.73	0	0.000	0.000	6	31.652	21.415	0
29	58.16	1	2.879	1.705	3	11.119	6.344	0
30	0.00	0	0.000	0.000	0	0.000	0.000	0
31	0.00	0	0.000	0.000	0	0.000	0.000	0
32	0.00	0	0.000	0.000	0	0.000	0.000	0
33	0.00	0	0.000	0.000	0	0.000	0.000	0
34	46.15	0	0.000	0.000	2	3.862	2.193	0
35	0.00	1	43.121	26.950	0	0.000	0.000	0
36	0.00	0	0.000	0.000	0	0.000	0.000	0
37	0.00	0	0.000	0.000	0	0.000	0.000	0
38	0.00	0	0.000	0.000	0	0.000	0.000	0
39	0.00	0	0.000	0.000	0	0.000	0.000	0
40	0.00	0	0.000	0.000	0	0.000	0.000	0
41	0.70	0	0.000	0.000	1	1.966	1.312	0
42	0.00	0	0.000	0.000	5	19.682	12.299	0
43	0.00	0	0.000	0.000	0	0.000	0.000	0
44	0.00	0	0.000	0.000	0	0.000	0.000	0
45	0.00	0	0.000	0.000	0	0.000	0.000	0
46	0.00	0	0.000	0.000	0	0.000	0.000	0
47	0.00	0	0.000	0.000	3	8.833	6.085	0
48	0.00	0	0.000	0.000	1	8.005	5.546	1
49	0.00	0	0.000	0.000	0	0.000	0.000	0
50	0.00	0	0.000	0.000	0	0.000	0.000	0
51	0.00	0	0.000	0.000	0	0.000	0.000	0
52	0.00	0	0.000	0.000	0	0.000	0.000	0
53	0.00	0	0.000	0.000	3	6.919	4.355	0
54	0.00	0	0.000	0.000	1	0.868	0.488	0
55	0.00	0	0.000	0.000	0	0.000	0.000	0
56	0.00	0	0.000	0.000	0	0.000	0.000	0
57	0.00	0	0.000	0.000	0	0.000	0.000	0

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row	TCPXDW85	CNUTDN85	CNUTWW85	CNUTDW85	MINQDN85	MINQWW85	MINQDW85	MOBLDN85
58	0.00	0	0.000	0.000	0	0.000	0.000	0
59	0.00	0	0.000	0.000	0	0.000	0.000	0
60	0.00	0	0.000	0.000	0	0.000	0.000	0
61	0.00	1	107.541	65.581	2	3.036	1.357	4
62	0.00	0	0.000	0.000	1	9.227	5.310	0

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row	MOBLWW85	MOBLDW85	TJAPDN85	TJAPWW85	TJAPDW85	PTENDN85	PTENWW85	PTENDW85
1	0.000	0.000	0	0.000	0.000	0	0.000	0.000
2	0.000	0.000	0	0.000	0.000	0	0.000	0.000
3	0.000	0.000	0	0.000	0.000	0	0.000	0.000
4	0.000	0.000	0	0.000	0.000	0	0.000	0.000
5	0.000	0.000	0	0.000	0.000	0	0.000	0.000
6	0.000	0.000	0	0.000	0.000	0	0.000	0.000
7	0.000	0.000	0	0.000	0.000	0	0.000	0.000
8	0.000	0.000	0	0.000	0.000	0	0.000	0.000
9	0.000	0.000	0	0.000	0.000	0	0.000	0.000
10	0.000	0.000	0	0.000	0.000	0	0.000	0.000
11	0.000	0.000	0	0.000	0.000	0	0.000	0.000
12	0.000	0.000	0	0.000	0.000	0	0.000	0.000
13	0.000	0.000	0	0.000	0.000	0	0.000	0.000
14	0.000	0.000	0	0.000	0.000	0	0.000	0.000
15	0.000	0.000	0	0.000	0.000	0	0.000	0.000
16	0.000	0.000	0	0.000	0.000	0	0.000	0.000
17	0.000	0.000	0	0.000	0.000	1	0.466	0.255
18	0.000	0.000	0	0.000	0.000	0	0.000	0.000
19	0.000	0.000	0	0.000	0.000	0	0.000	0.000
20	0.000	0.000	0	0.000	0.000	0	0.000	0.000
21	0.000	0.000	0	0.000	0.000	0	0.000	0.000
22	0.000	0.000	0	0.000	0.000	0	0.000	0.000
23	2.093	1.252	0	0.000	0.000	0	0.000	0.000
24	0.000	0.000	0	0.000	0.000	0	0.000	0.000
25	0.000	0.000	0	0.000	0.000	0	0.000	0.000
26	0.000	0.000	0	0.000	0.000	0	0.000	0.000
27	0.000	0.000	1	1.371	0.854	0	0.000	0.000
28	0.000	0.000	0	0.000	0.000	0	0.000	0.000
29	0.000	0.000	0	0.000	0.000	0	0.000	0.000
30	0.000	0.000	0	0.000	0.000	0	0.000	0.000
31	0.000	0.000	0	0.000	0.000	0	0.000	0.000
32	0.000	0.000	0	0.000	0.000	0	0.000	0.000
33	0.000	0.000	0	0.000	0.000	0	0.000	0.000
34	0.000	0.000	0	0.000	0.000	0	0.000	0.000
35	0.000	0.000	0	0.000	0.000	0	0.000	0.000
36	0.000	0.000	0	0.000	0.000	0	0.000	0.000
37	0.000	0.000	0	0.000	0.000	0	0.000	0.000
38	0.000	0.000	0	0.000	0.000	0	0.000	0.000
39	0.000	0.000	0	0.000	0.000	0	0.000	0.000
40	0.000	0.000	0	0.000	0.000	0	0.000	0.000
41	0.000	0.000	0	0.000	0.000	0	0.000	0.000
42	0.000	0.000	0	0.000	0.000	0	0.000	0.000
43	0.000	0.000	0	0.000	0.000	0	0.000	0.000
44	0.000	0.000	0	0.000	0.000	0	0.000	0.000
45	0.000	0.000	0	0.000	0.000	0	0.000	0.000
46	0.000	0.000	0	0.000	0.000	0	0.000	0.000
47	0.000	0.000	0	0.000	0.000	0	0.000	0.000
48	1.535	0.884	0	0.000	0.000	0	0.000	0.000
49	0.000	0.000	0	0.000	0.000	0	0.000	0.000
50	0.000	0.000	0	0.000	0.000	0	0.000	0.000
51	0.000	0.000	0	0.000	0.000	0	0.000	0.000
52	0.000	0.000	0	0.000	0.000	0	0.000	0.000
53	0.000	0.000	0	0.000	0.000	0	0.000	0.000
54	0.000	0.000	0	0.000	0.000	0	0.000	0.000
55	0.000	0.000	0	0.000	0.000	0	0.000	0.000
56	0.000	0.000	0	0.000	0.000	0	0.000	0.000
57	0.000	0.000	0	0.000	0.000	0	0.000	0.000

File LPDATA2 10/22/90 Page 2-2

row	MOBLWW85	MOBLDW85	TJAPDN85	TJAPWW85	TJAPDW85	PTENDN85	PTENWW85	PTENDW85
58	0.000	0.000	0	0.000	0.000	0	0.000	0.000
59	0.000	0.000	0	0.000	0.000	0	0.000	0.000
60	0.000	0.000	0	0.000	0.000	0	0.000	0.000
61	7.362	3.669	0	0.000	0.000	0	0.000	0.000
62	0.000	0.000	0	0.000	0.000	0	0.000	0.000

File LPDATA2 10/22/90 Page 1-3

row	MSPDN85	MSPWW85	MSPDW85	FRAGWW85	FRAGDW85	TBIVDN85	TBIVWW85	TBIVDW85
1	0	0.000	0.000	0.000	0.000	0	0.000	0.000
2	0	0.000	0.000	0.000	0.000	0	0.000	0.000
3	0	0.000	0.000	0.000	0.000	0	0.000	0.000
4	0	0.000	0.000	0.000	0.000	0	0.000	0.000
5	0	0.000	0.000	0.000	0.000	8	74.766	47.032
6	0	0.000	0.000	0.000	0.000	4	206.667	139.194
7	0	0.000	0.000	0.000	0.000	0	0.000	0.000
8	0	0.000	0.000	0.000	0.000	0	0.000	0.000
9	0	0.000	0.000	0.000	0.000	0	0.000	0.000
10	0	0.000	0.000	0.000	0.000	1	3.816	2.485
11	0	0.000	0.000	0.000	0.000	5	424.284	275.874
12	0	0.000	0.000	0.000	0.000	7	102.578	66.086
13	0	0.000	0.000	0.000	0.000	0	0.000	0.000
14	0	0.000	0.000	0.000	0.000	0	0.000	0.000
15	0	0.000	0.000	0.000	0.000	0	0.000	0.000
16	0	0.000	0.000	0.000	0.000	0	0.000	0.000
17	2	2.715	1.794	0.000	0.000	8	131.102	81.206
18	0	0.000	0.000	0.000	0.000	0	0.000	0.000
19	0	0.000	0.000	0.000	0.000	0	0.000	0.000
20	0	0.000	0.000	0.000	0.000	0	0.000	0.000
21	0	0.000	0.000	0.000	0.000	2	13.797	10.261
22	0	0.000	0.000	0.000	0.000	1	2.908	1.866
23	0	0.000	0.000	0.000	0.000	2	5.282	3.487
24	0	0.000	0.000	0.000	0.000	0	0.000	0.000
25	0	0.000	0.000	0.000	0.000	0	0.000	0.000
26	0	0.000	0.000	0.000	0.000	2	0.385	0.350
27	1	0.000	0.000	11.372	7.999	4	12.743	8.853
28	3	5.661	3.495	0.000	0.000	17	238.350	145.881
29	0	0.000	0.000	1.799	0.972	14	348.855	202.752
30	0	0.000	0.000	0.000	0.000	0	0.000	0.000
31	0	0.000	0.000	0.000	0.000	0	0.000	0.000
32	0	0.000	0.000	0.000	0.000	0	0.000	0.000
33	0	0.000	0.000	0.000	0.000	1	0.559	0.360
34	0	0.000	0.000	0.000	0.000	6	97.025	59.058
35	0	0.000	0.000	0.000	0.000	4	72.463	45.381
36	0	0.000	0.000	0.000	0.000	0	0.000	0.000
37	0	0.000	0.000	0.000	0.000	0	0.000	0.000
38	0	0.000	0.000	0.000	0.000	0	0.000	0.000
39	0	0.000	0.000	0.000	0.000	0	0.000	0.000
40	0	0.000	0.000	0.000	0.000	0	0.000	0.000
41	0	0.000	0.000	0.000	0.000	4	16.783	10.290
42	0	0.000	0.000	0.000	0.000	5	19.682	12.299
43	0	0.000	0.000	0.000	0.000	0	0.000	0.000
44	0	0.000	0.000	0.000	0.000	0	0.000	0.000
45	0	0.000	0.000	0.000	0.000	1	1.367	0.980
46	0	0.000	0.000	0.000	0.000	0	0.000	0.000
47	0	0.000	0.000	0.000	0.000	14	108.402	71.676
48	1	1.696	1.035	0.000	0.000	4	13.393	8.805
49	0	0.000	0.000	0.000	0.000	0	0.000	0.000
50	0	0.000	0.000	0.000	0.000	0	0.000	0.000
51	0	0.000	0.000	0.000	0.000	0	0.000	0.000
52	0	0.000	0.000	0.000	0.000	3	22.241	15.121
53	0	0.000	0.000	0.000	0.000	9	374.985	267.745
54	0	0.000	0.000	0.000	0.000	3	316.209	220.477
55	0	0.000	0.000	0.000	0.000	0	0.000	0.000
56	0	0.000	0.000	0.000	0.000	0	0.000	0.000
57	0	0.000	0.000	0.000	0.000	0	0.000	0.000

File LPDATA2 10/22/90 Page 2-3

row	MSPDN85	MSPWW85	MSPDW85	FRAGWW85	FRAGDW85	TBIVDN85	TBIVWW85	TBIVDW85
58	0	0.000	0.000	0.000	0.000	0	0.000	0.000
59	0	0.000	0.000	0.000	0.000	0	0.000	0.000
60	0	0.000	0.000	0.000	0.000	0	0.000	0.000
61	0	0.000	0.000	42.563	32.743	7	160.502	103.350
62	0	0.000	0.000	0.000	0.000	1	9.227	5.310

File LPDATA2 10/22/90 Page 1-4

row	TBIVSP85	VOLSOL85
1	0	0.0031
2	0	0.0044
3	0	0.0030
4	0	0.0063
5	2	0.0059
6	3	0.0104
7	0	0.0024
8	0	0.0032
9	0	0.0022
10	1	0.0032
11	2	0.0033
12	3	0.0049
13	0	0.0033
14	0	0.0044
15	0	0.0047
16	0	0.0050
17	4	0.0041
18	0	0.0052
19	0	0.0072
20	0	0.0071
21	1	0.0105
22	1	0.0121
23	2	0.0052
24	0	0.0049
25	0	0.0064
26	1	0.0092
27	3	0.0103
28	5	0.0041
29	5	0.0075
30	0	0.0039
31	0	0.0046
32	0	0.0000
33	1	0.0062
34	3	0.0062
35	2	0.0052
36	0	0.0061
37	0	0.0052
38	0	0.0205
39	0	0.0083
40	4	0.0085
41	1	0.0279
42	0	0.0104
43	0	0.0051
44	0	0.0094
45	1	0.0087
46	0	0.0092
47	3	0.0083
48	4	0.0081
49	0	0.0072
50	0	0.0095
51	0	0.0093
52	1	0.0104
53	3	0.0140
54	3	0.0101
55	0	0.0033
56	0	0.0041
57	0	0.0046

File LPDATA2 10/22/90 Page 2-4

row	TBIVSP85	VOLSOL85
58	0	0.0059
59	0	0.0083
60	0	0.0073
61	3	0.0000
62	1	0.0000

File LPDATA3 10/22/90 Page 1-1

row	ULVAWW85	ULVADW85	FUCUWW85	FUCUDW85	IRHTWW85	IRHTDW85	PTBIWW85	PTBIDW85
1	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
2	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
3	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
4	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
5	0.00	0.000	41.438	11.737	0.000	0.000	0.E0000	0.E0000
6	18.15	5.088	0.000	0.000	0.016	0.002	4.E-003	1.E-003
7	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
8	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
9	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
10	0.03	0.006	0.000	0.000	0.000	0.000	0.E0000	0.E0000
11	48.49	4.626	0.000	0.000	0.000	0.000	0.E0000	0.E0000
12	8.68	1.958	0.000	0.000	0.000	0.000	8.E-003	1.E-003
13	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
14	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
15	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
16	1.68	0.182	0.000	0.000	0.000	0.000	0.E0000	0.E0000
17	2.55	0.349	0.000	0.000	0.000	0.000	0.E0000	0.E0000
18	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
19	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
20	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
21	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
22	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
23	0.00	0.000	0.503	0.068	0.748	0.106	3.E-003	1.E-003
24	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
25	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
26	0.00	0.000	203.349	36.566	0.000	0.000	0.E0000	0.E0000
27	0.44	0.158	20.403	4.305	0.000	0.000	0.E0000	0.E0000
28	29.48	8.623	0.000	0.000	0.000	0.000	0.E0000	0.E0000
29	0.24	0.029	8.601	2.514	18.175	2.678	0.E0000	0.E0000
30	6.03	1.539	0.000	0.000	0.000	0.000	0.E0000	0.E0000
31	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
32	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
33	0.00	0.000	41.460	8.609	0.000	0.000	0.E0000	0.E0000
34	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
35	11.25	2.580	17.490	4.747	0.000	0.000	0.E0000	0.E0000
36	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
37	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
38	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
39	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
40	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
41	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
42	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
43	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
44	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
45	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
46	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
47	0.76	0.087	0.000	0.000	0.000	0.000	0.E0000	0.E0000
48	1.33	0.339	0.014	0.024	0.000	0.000	0.E0000	0.E0000
49	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
50	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
51	0.12	0.017	0.000	0.000	0.000	0.000	0.E0000	0.E0000
52	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
53	9.78	1.553	0.000	0.000	0.000	0.000	0.E0000	0.E0000
54	15.92	2.706	0.000	0.000	0.000	0.000	0.E0000	0.E0000
55	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
56	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
57	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000

File LPDATA3 10/22/90 Page 2-1

row	ULVAWW85	ULVADW85	FUCUWW85	FUCUDW85	IRHTWW85	IRHTDW85	PTBIWW85	PTBIDW85
58	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
59	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
60	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
61	0.00	0.000	0.000	0.000	0.000	0.000	0.E0000	0.E0000
62	3.06	0.277	0.000	0.000	0.000	0.000	0.E0000	0.E0000

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row	DIATWW85	DIATDW85	POSJWW85	POSJDW85	PYPAWW85	PYPADW85	ENINWW85	ENINDW85
1	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
5	0.018	0.004	0.000	0.00	0.000	0.000	3.725	0.466
6	0.004	0.002	0.000	0.00	0.000	0.000	0.058	0.014
7	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
8	0.000	0.000	0.290	0.13	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
10	0.000	0.000	1.470	1.35	0.000	0.000	0.000	0.000
11	0.000	0.000	10.703	1.15	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.00	0.000	0.000	0.971	0.190
13	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
23	0.025	0.003	0.000	0.00	0.000	0.000	0.441	0.025
24	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
27	8.129	2.662	0.000	0.00	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
29	0.267	0.033	0.000	0.00	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.00	0.000	0.000	0.017	0.003
31	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
32	1.350	0.461	0.000	0.00	0.000	0.000	0.035	0.004
33	0.445	0.059	0.000	0.00	0.009	0.002	0.000	0.000
34	1.234	0.167	0.000	0.00	0.000	0.000	0.000	0.000
35	1.684	0.143	0.000	0.00	0.000	0.000	0.000	0.000
36	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
37	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
38	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
39	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
41	0.000	0.000	2.053	0.22	0.000	0.000	0.000	0.000
42	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
43	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
44	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
46	0.000	0.000	0.398	0.07	0.000	0.000	0.000	0.000
47	0.000	0.000	0.628	0.09	0.000	0.000	0.007	0.002
48	0.000	0.000	0.000	0.00	0.000	0.000	0.425	0.049
49	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
51	0.000	0.000	2.714	0.36	0.000	0.000	0.000	0.000
52	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
53	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
54	3.102	0.452	0.000	0.00	0.748	0.261	0.000	0.000
55	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
56	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
57	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000

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row	DIATWW85	DIATDW85	POSJWW85	POSJDW85	PYPAWW85	PYPADW85	ENINWW85	ENINDW85
58	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
59	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
61	0.000	0.000	0.000	0.00	35.226	8.353	0.234	0.052
62	0.003	0.001	0.000	0.00	0.000	0.000	0.114	0.010

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row	POMNWW85	POMNDW85	ENLZWW85	ENLZDW85	GGPPWW85	GGPPDW85	RHLXWW85	RHLXDW85
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
3	0.000	0.000	0.000	0.000	0.040	0.017	0.000	0.00
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
5	0.000	0.000	0.133	0.028	0.688	0.181	0.000	0.00
6	0.000	0.000	1.621	0.173	0.440	0.104	0.000	0.00
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
10	0.000	0.000	0.072	0.002	0.000	0.000	0.000	0.00
11	0.000	0.000	0.000	0.000	0.000	0.000	0.061	1.35
12	0.000	0.000	20.046	5.433	0.000	0.000	0.000	0.00
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
24	0.000	0.000	0.004	0.003	0.000	0.000	0.000	0.00
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
26	0.000	0.000	0.097	1.336	1.757	0.303	0.000	0.00
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
28	0.847	0.167	0.000	0.000	0.000	0.000	0.000	0.00
29	1.594	0.077	0.931	0.585	3.989	0.836	0.000	0.00
30	0.000	0.000	1.470	1.680	0.000	0.000	0.000	0.00
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
32	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
33	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
34	0.000	0.000	0.000	0.000	0.000	0.000	1.221	0.18
35	0.000	0.000	7.154	0.792	0.000	0.000	0.000	0.00
36	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
37	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
38	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
39	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
40	0.007	0.001	0.000	0.000	0.686	0.192	0.000	0.00
41	0.000	0.000	0.037	0.006	0.000	0.000	0.000	0.00
42	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
43	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
44	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
46	0.000	0.000	0.000	0.000	0.994	0.272	0.000	0.00
47	0.000	0.000	0.013	0.006	0.133	0.025	0.000	0.00
48	0.000	0.000	0.143	0.036	0.000	0.000	0.000	0.00
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
51	0.000	0.000	0.000	0.000	1.947	0.458	0.000	0.00
52	0.000	0.000	0.000	0.000	0.499	0.207	0.000	0.00
53	0.000	0.000	0.415	0.037	0.410	0.089	0.000	0.00
54	0.000	0.000	4.752	0.686	2.099	0.510	0.000	0.00
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
57	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00

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row	POMNWW85	POMNDW85	ENLZWW85	ENLZDW85	GGPPWW85	GGPPDW85	RHLXWW85	RHLXDW85
58	0.000	0.000	6.105	1.937	0.000	0.000	0.000	0.00
59	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
61	0.000	0.000	11.153	2.508	0.000	0.000	0.026	0.00
62	0.000	0.000	0.579	0.004	0.000	0.000	0.000	0.00

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row	UVFNWW85	UVFNDW85	GRACWW85	GRACDW85	SARGWW85	SARGDW85	MICRWW85	MICRDW85
1	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
2	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
3	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
4	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
5	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
6	51.12	11.015	0.000	0.000	0.000	0.000	0.000	0.00
7	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
8	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
9	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
10	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
11	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
12	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
13	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
14	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
15	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
16	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
17	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
18	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
19	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
20	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
21	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
22	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
23	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
24	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
25	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
26	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
27	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
28	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
29	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
30	0.00	0.000	0.000	0.000	0.000	0.000	0.135	0.03
31	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
32	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
33	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
34	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
35	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
36	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
37	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
38	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
39	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
40	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
41	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
42	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
43	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
44	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
45	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
46	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
47	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
48	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
49	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
50	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
51	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
52	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
53	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
54	0.00	0.000	0.158	0.050	0.000	0.000	0.000	0.00
55	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
56	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
57	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00

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row	UVFNWW85	UVFNDW85	GRACWW85	GRACDW85	SARGWW85	SARGDW85	MICRWW85	MICRDW85
58	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
59	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
60	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00
61	0.00	0.000	0.921	0.218	0.663	0.141	0.000	0.00
62	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00

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row	TALWBM85	TALDBM85	NOALSP85
1	0.000	0.000	0
2	0.000	0.000	0
3	0.040	0.017	1
4	0.000	0.000	0
5	46.002	12.416	5
6	71.413	16.399	8
7	0.000	0.000	0
8	0.290	0.126	1
9	0.000	0.000	0
10	1.570	1.358	3
11	59.254	7.129	3
12	29.706	7.582	4
13	0.000	0.000	0
14	0.000	0.000	0
15	0.000	0.000	0
16	1.679	0.182	1
17	2.547	0.349	1
18	0.000	0.000	0
19	0.000	0.000	0
20	0.000	0.000	0
21	0.000	0.000	0
22	0.720	0.000	0
23	1.720	0.203	5
24	0.004	0.003	1
25	0.000	0.000	0
26	205.203	38.205	3
27	28.975	7.125	3
28	30.329	8.790	2
29	33.793	6.752	7
30	7.652	1.740	4
31	0.000	0.000	0
32	1.385	0.465	2
33	41.914	8.670	3
34	2.455	0.351	2
35	37.577	8.262	4
36	0.000	0.000	0
37	0.000	0.000	0
38	0.000	0.000	0
39	0.000	0.000	0
40	0.693	0.193	2
41	2.090	0.220	2
42	0.000	0.000	0
43	0.000	0.000	0
44	0.000	0.000	0
45	0.000	0.000	0
46	1.392	0.339	2
47	1.539	0.212	5
48	1.913	0.448	4
49	0.000	0.000	0
50	0.000	0.000	0
51	4.781	0.838	3
52	0.499	0.207	1
53	10.609	1.679	3
54	26.780	4.665	6
55	0.000	0.000	0
56	0.000	0.000	0
57	0.000	0.000	0

File LPDATA3 10/22/90

row	TALWBM85	TALDBM85	NOALSP85
58	6.105	1.937	1
59	0.000	0.000	0
60	0.000	0.000	0
61	48.223	11.275	6
62	3.757	0.332	4

File LPDATA4 10/22/90 Page 1-1

row	EJDAY90	TRANS90	DIREC90	ELEV90	BOULCOV90	COBCOV90	GRAVCOV90	SNDCOV90
1	1983	1.	275	8	0	0	100	0
2	1983	1.	275	6	0	34	66	0
3	1983	1.	275	4	0	98	0	0
4	1983	1.	275	2	0	20	0	0
5	1983	1.	275	0	0	6	0	6
6	1983	1.	275	-2	0	80	16	0
7	1984	2.	230	8	0	100	0	0
8	1984	2.	230	6	0	100	0	0
9	1984	2.	230	4	0	100	0	0
10	1984	2.	230	2	0	96	0	0
11	1984	2.	230	0	0	6	0	48
12	1984	2.	230	-2	0	0	0	100
13	1983	3.	197	8	0	100	0	0
14	1983	3.	197	6	0	100	0	0
15	1983	3.	197	4	0	72	0	6
16	1983	3.	197	2	64	6	0	16
17	1983	3.	197	0	0	0	0	88
18	1983	3.	197	-2	0	0	0	100
19	1983	4.	202	8	0	100	0	0
20	1983	4.	202	6	0	100	0	0
21	1983	4.	202	4	0	72	0	28
22	1983	4.	202	2	0	0	0	100
23	1983	4.	202	0	0	0	0	82
24	1983	4.	202	-2	0	24	20	46
25	1983	5.	195	8	0	100	0	0
26	1983	5.	195	6	0	100	0	0
27	1983	5.	195	4	0	24	0	76
28	1983	5.	195	2	0	0	8	0
29	1983	5.	195	0	0	2	0	4
30	1983	5.	195	-2	0	6	94	0
31	1983	6.	200	8	0	100	0	0
32	1983	6.	200	6	0	100	0	0
33	1983	6.	200	4	0	100	0	0
34	1983	6.	200	2	0	2	0	58
35	1983	6.	200	0	0	4	0	18
36	1983	6.	200	-2	0	30	0	10
37	1982	7.	203	8	0	100	0	0
38	1982	7.	203	6	0	100	0	0
39	1982	7.	203	4	0	68	0	0
40	1982	7.	203	2	0	8	26	6
41	1982	7.	203	0	0	54	12	4
42	1982	7.	203	-2	0	0	0	100
43	1982	8.	205	8	0	100	0	0
44	1982	8.	205	6	0	100	0	0
45	1982	8.	205	4	0	68	0	0
46	1982	8.	205	2	0	12	0	0
47	1982	8.	205	0	0	2	0	0
48	1982	8.	205	-2	0	10	0	50
49	1982	9.	207	8	0	100	0	0
50	1982	9.	207	6	0	100	0	0
51	1982	9.	207	4	0	80	0	0
52	1982	9.	207	2	0	10	0	4
53	1982	9.	207	0	0	0	0	0
54	1982	9.	207	-2	0	10	10	30
55	1982	9.	210	8	0	72	14	14
56	1982	9.	210	6	0	96	4	0
57	1982	9.	210	4	0	8	18	0

File LPDATA4 10/22/90 Page 2-1

row	EJDAY90	TRANS90	DIREC90	ELEV90	BOULCOV90	COBCOV90	GRAVCOV90	SNDCOV90
58	1982	9.	210	2	0	2	18	4
59	1982	9.	210	0	0	8	32	0
60	1982	9.	210	-2	0	0	0	0
61	1984	10.	242	8	0	0	0	100
62	1984	10.	242	6	0	0	0	100
63	1984	10.	242	4	0	0	100	0
64	1984	10.	242	2	0	0	100	0
65	1984	10.	242	0	0	0	0	100
66	1984	10.	242	-2	0	0	0	100

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row	BALGLCOV90	FUCCOV90	RALCOV90	ANTCOV90	MYTCOV90	ULVCOV90	PORCOV90	LITCOV90
1	0.	0.	0.	0.0	0.	0.	0.	0.0
2	0.	0.	0.	0.0	0.	0.	0.	0.0
3	2.	0.	0.	0.0	0.	0.	0.	0.0
4	74.	0.	0.	0.0	0.	0.	6.	0.0
5	0.	0.	2.	0.0	2.	6.	0.	0.0
6	10.	0.	0.	0.0	0.	30.	0.	0.0
7	0.	0.	0.	0.0	0.	0.	0.	0.0
8	0.	0.	0.	0.0	0.	0.	0.	0.0
9	0.	0.	0.	0.0	0.	0.	0.	0.0
10	0.	0.	0.	0.0	0.	0.	0.	0.0
11	4.	0.	0.	0.2	2.	6.	0.	0.0
12	0.	0.	0.	0.0	0.	0.	0.	0.0
13	0.	0.	0.	0.0	0.	0.	0.	0.0
14	0.	0.	0.	0.0	0.	0.	0.	0.0
15	8.	0.	0.	0.0	0.	0.	14.	0.0
16	36.	4.	0.	0.0	4.	14.	4.	0.0
17	0.	0.	0.	0.0	0.	12.	0.	0.0
18	0.	0.	0.	0.0	0.	0.	0.	0.0
19	0.	0.	0.	0.0	0.	0.	0.	0.0
20	0.	0.	0.	0.0	0.	0.	0.	0.0
21	0.	0.	0.	0.0	0.	0.	0.	0.0
22	0.	0.	0.	0.2	0.	0.	0.	0.0
23	0.	0.	0.	0.0	0.	18.	0.	0.0
24	6.	0.	0.	0.0	0.	30.	4.	0.0
25	0.	0.	0.	0.0	0.	0.	0.	0.0
26	0.	0.	0.	0.0	0.	0.	0.	0.0
27	0.	0.	0.	0.0	0.	0.	0.	0.0
28	70.	0.	0.	0.0	0.	0.	8.	0.2
29	22.	0.	0.	0.2	0.	0.	6.	0.0
30	4.	0.	0.	0.0	0.	0.	0.	0.0
31	0.	0.	0.	0.0	0.	0.	0.	0.0
32	0.	0.	0.	0.0	0.	0.	0.	0.0
33	0.	0.	0.	0.0	0.	0.	0.	0.0
34	12.	0.	0.	0.0	0.	26.	2.	0.0
35	62.	0.	0.	0.0	0.	16.	0.	0.0
36	10.	14.	0.	0.0	0.	48.	0.	0.0
37	0.	0.	0.	0.0	0.	0.	0.	0.0
38	0.	0.	0.	0.0	0.	0.	0.	0.0
39	2.	0.	0.	0.0	0.	0.	2.	0.0
40	44.	0.	2.	0.2	0.	6.	0.	0.0
41	12.	0.	0.	0.0	0.	4.	0.	0.0
42	0.	0.	0.	0.0	0.	0.	0.	0.0
43	0.	0.	0.	0.0	0.	0.	0.	0.0
44	0.	0.	0.	0.0	0.	0.	0.	0.0
45	2.	0.	0.	0.0	0.	0.	4.	0.0
46	68.	0.	0.	0.0	0.	14.	6.	0.0
47	12.	0.	0.	0.0	0.	72.	2.	0.0
48	10.	0.	0.	0.0	0.	30.	0.	0.0
49	0.	0.	0.	0.0	0.	0.	0.	0.0
50	0.	0.	0.	0.0	0.	0.	0.	0.0
51	0.	0.	0.	0.0	0.	0.	0.	0.0
52	80.	0.	0.	0.2	0.	2.	0.	0.0
53	72.	0.	0.	0.2	0.	6.	0.	0.0
54	0.	0.	0.	0.0	0.	50.	0.	0.0
55	0.	0.	0.	0.0	0.	0.	0.	0.0
56	0.	0.	0.	0.0	0.	0.	0.	0.0
57	62.	8.	0.	0.2	0.	0.	0.	0.0

File LPDATA4 10/22/90 Page 2-2

row	BALGLCOV90	FUCCOV90	RALCOV90	ANTCOV90	MYTCOV90	ULVCOV90	PORCOV90	LITCOV90
58	72.	0.	0.	0.0	0.	0.	4.	0.0
59	34.	0.	0.	0.0	0.	14.	6.	0.0
60	0.	0.	0.	0.0	0.	100.	0.	0.0
61	0.	0.	0.	0.0	0.	0.	0.	0.0
62	0.	0.	0.	0.0	0.	0.	0.	0.0
63	0.	0.	0.	0.0	0.	0.	0.	0.0
64	0.	0.	0.	0.0	0.	0.	0.	0.0
65	0.	0.	0.	0.0	0.	0.	0.	0.0
66	0.	0.	0.	0.0	0.	0.	0.	0.0

File LPDATA4 10/22/90 Page 1-3

row	ENTLCOV90	PENCOV90	ENTICOV90	IRICOV90	COLCOV90	DIACOV90	RHOCOV90	PTBCOV90
1	0.	0.0	0.	0.	0.0	0.	0	0.
2	0.	0.0	0.	0.	0.0	0.	0	0.
3	0.	0.0	0.	0.	0.0	0.	0	0.
4	0.	0.0	0.	0.	0.0	0.	0	0.
5	0.	0.0	0.	6.	0.0	0.	0	0.
6	0.	0.0	0.	0.	0.0	0.	0	0.
7	0.	0.0	0.	0.	0.0	0.	0	0.
8	0.	0.0	0.	0.	0.0	0.	0	0.
9	0.	0.0	0.	0.	0.0	0.	0	0.
10	4.	0.0	4.	0.	0.0	0.	0	0.
11	0.	0.0	0.	0.	0.0	0.	0	0.
12	0.	0.0	0.	0.	0.0	0.	0	0.
13	0.	0.0	0.	0.	0.0	0.	0	0.
14	0.	0.0	0.	0.	0.0	0.	0	0.
15	0.	0.0	0.	0.	0.0	0.	0	0.
16	0.	0.0	0.	0.	0.0	0.	0	16.
17	0.	0.0	0.	0.	0.0	0.	0	0.
18	0.	0.0	0.	0.	0.0	0.	0	0.
19	0.	0.0	0.	0.	0.0	0.	0	0.
20	0.	0.0	0.	0.	0.0	0.	0	0.
21	0.	0.0	0.	0.	0.0	0.	0	0.
22	0.	0.0	0.	0.	0.0	0.	0	0.
23	0.	0.0	0.	0.	0.0	0.	0	0.
24	10.	0.0	10.	0.	0.0	0.	0	0.
25	0.	0.0	0.	0.	0.0	0.	0	0.
26	0.	0.0	0.	0.	0.0	0.	0	0.
27	0.	0.0	0.	0.	0.0	0.	0	0.
28	0.	0.0	0.	0.	0.2	0.	0	0.
29	0.	0.0	0.	0.	0.0	0.	0	0.
30	0.	0.0	0.	0.	0.0	0.	0	0.
31	0.	0.0	0.	0.	0.0	0.	0	0.
32	0.	0.0	0.	0.	0.0	0.	0	0.
33	0.	0.0	0.	0.	0.0	0.	0	0.
34	0.	0.0	0.	0.	0.0	0.	0	0.
35	0.	0.0	0.	0.	0.0	0.	0	0.
36	0.	0.0	0.	0.	0.0	0.	0	0.
37	0.	0.0	0.	0.	0.0	0.	0	0.
38	0.	0.0	0.	0.	0.0	0.	0	0.
39	8.	0.0	8.	0.	0.0	0.	0	0.
40	0.	0.0	0.	0.	0.0	0.	0	8.
41	0.	0.0	0.	0.	0.0	0.	0	14.
42	0.	0.0	0.	0.	0.0	0.	0	0.
43	0.	0.0	0.	0.	0.0	0.	0	0.
44	0.	0.0	0.	0.	0.0	0.	0	0.
45	6.	0.0	6.	0.	0.0	0.	0	0.
46	0.	0.2	0.	0.	0.0	0.	0	0.
47	0.	0.0	0.	0.	0.2	0.	2	6.
48	0.	0.0	0.	0.	0.0	0.	0	0.
49	0.	0.0	0.	0.	0.0	0.	0	0.
50	0.	0.0	0.	0.	0.0	0.	0	0.
51	20.	0.0	20.	0.	0.0	0.	0	0.
52	0.	0.0	0.	0.	0.2	2.	0	0.
53	8.	0.0	8.	2.	0.0	0.	0	8.
54	0.	0.0	0.	0.	0.0	0.	0	0.
55	0.	0.0	0.	0.	0.0	0.	0	0.
56	0.	0.0	0.	0.	0.0	0.	0	0.
57	0.	0.0	0.	0.	0.0	0.	0	0.

File LPDATA4 10/22/90 Page 2-3

row	ENTLCOV90	PENCOV90	ENTICOV90	IRICOV90	COLCOV90	DIACOV90	RHOCOV90	PTBCOV90
58	0.	0.0	0.	0.	0.0	0.	0	0.
59	6.	0.0	6.	0.	0.0	0.	0	0.
60	0.	0.0	0.	0.	0.0	0.	0	0.
61	0.	0.0	0.	0.	0.0	0.	0	0.
62	0.	0.0	0.	0.	0.0	0.	0	0.
63	0.	0.0	0.	0.	0.0	0.	0	0.
64	0.	0.0	0.	0.	0.0	0.	0	0.
65	0.	0.0	0.	0.	0.0	0.	0	0.
66	0.	0.0	0.	0.	0.0	0.	0	0.

File LPDATA4 10/22/90 Page 1-4

row	PYPACOV90	MASCOV90	SPOCOV90	LAMCOV90	GIGCOV90	PTBIDW90	FUCUDW90	MONODW90
1	0	0	0	0.000	0.000	0.000	0.000	0.000
2	0	0	0	0.000	0.000	0.000	0.000	0.000
3	0	0	0	0.000	0.000	0.000	0.000	0.000
4	0	0	0	0.000	0.000	0.000	0.000	0.000
5	0	0	0	0.000	0.000	0.102	0.340	0.004
6	0	0	0	0.743	0.000	0.061	0.000	0.014
7	0	0	0	0.000	0.000	0.000	0.000	0.000
8	0	0	0	0.000	0.000	0.000	0.000	0.000
9	0	0	0	0.000	0.000	0.000	0.000	0.000
10	0	0	0	0.000	0.000	0.000	0.000	0.000
11	0	0	0	0.000	0.000	0.000	0.000	0.000
12	0	0	0	0.000	0.000	0.000	0.000	0.000
13	0	0	0	0.000	0.000	0.000	0.000	0.000
14	0	0	0	0.000	0.000	0.000	0.000	0.000
15	0	0	0	0.000	0.000	0.000	0.000	0.000
16	0	0	0	0.000	0.000	0.377	2.113	0.000
17	0	0	0	0.000	0.000	0.000	0.000	0.000
18	0	0	0	0.000	0.000	0.000	0.000	0.000
19	0	0	0	0.000	0.000	0.000	0.000	0.000
20	0	0	0	0.000	0.000	0.000	0.000	0.000
21	0	0	0	0.000	0.000	0.000	0.000	0.000
22	0	0	0	0.000	0.000	0.000	0.000	0.000
23	0	0	0	0.000	0.000	0.040	0.000	0.000
24	4	0	0	1.236	0.000	0.000	0.000	0.000
25	0	0	0	0.000	0.000	0.000	0.000	0.000
26	0	0	0	0.000	0.000	0.000	0.000	0.000
27	0	0	0	0.000	0.000	0.000	0.000	0.000
28	0	0	0	0.000	0.000	0.057	0.000	0.000
29	0	2	0	0.000	0.002	0.000	0.000	0.000
30	0	0	0	0.000	0.000	0.000	0.000	0.000
31	0	0	0	0.000	0.000	0.000	0.000	0.000
32	0	0	0	0.000	0.000	0.000	0.000	0.000
33	0	0	0	0.000	0.000	0.000	0.000	0.000
34	0	0	0	0.000	0.000	0.099	0.000	0.000
35	0	0	0	0.000	0.225	0.000	0.026	0.000
36	0	0	0	0.000	0.535	0.000	0.182	0.000
37	0	0	0	0.000	0.000	0.000	0.000	0.000
38	0	0	0	0.000	0.000	0.000	0.000	0.000
39	0	0	0	0.000	0.000	0.000	0.000	0.000
40	0	0	0	0.000	1.184	0.083	0.000	0.000
41	0	0	0	0.000	0.086	0.001	0.000	0.000
42	0	0	0	0.000	0.000	0.000	0.000	0.000
43	0	0	0	0.000	0.000	0.000	0.000	0.000
44	0	0	0	0.000	0.000	0.000	0.000	0.000
45	0	0	0	0.000	0.000	0.001	0.000	0.000
46	0	0	0	0.000	0.439	0.500	0.000	0.004
47	0	0	4	0.000	0.000	0.847	0.031	0.000
48	0	0	0	0.000	0.006	0.000	0.258	0.000
49	0	0	0	0.000	0.000	0.000	0.000	0.000
50	0	0	0	0.000	0.000	0.000	0.000	0.000
51	0	0	0	0.000	0.000	0.000	0.000	0.000
52	0	2	0	0.000	0.000	0.000	0.000	0.000
53	0	0	0	0.000	0.520	0.000	0.000	0.000
54	0	0	0	0.000	0.000	0.000	0.000	0.000
55	0	0	0	0.000	0.000	0.000	0.000	0.000
56	0	0	0	0.000	0.000	0.000	0.000	0.000
57	0	4	0	0.000	3.372	0.000	3.542	0.000

File LPDATA4 10/22/90 Page 2-4

row	PYPACOV90	MASCOV90	SPOCOV90	LAMCOV90	GIGCOV90	PTBIDW90	FUCUDW90	MONODW90
58	0	0	0	0.000	0.331	0.000	0.000	0.000
59	0	0	0	0.000	0.029	0.000	0.000	0.000
60	0	0	0	0.000	0.000	0.000	0.000	0.000
61	0	0	0	0.000	0.000	0.000	0.000	0.000
62	0	0	0	0.000	0.000	0.000	0.000	0.000
63	0	0	0	0.000	0.000	0.000	0.000	0.000
64	0	0	0	0.000	0.000	0.000	0.000	0.000
65	0	0	0	0.000	0.000	0.000	0.000	0.000
66	0	0	0	0.000	0.000	0.000	0.000	0.000

File LPDATA4 10/22/90 Page 1-5

row	POMNDW90	IRHTDW90	PYPADW90	ULVADW90	CRYPDW90	CERADW90	RHODDW90	MICRDW90
1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.329	0.000	0.000	0.007	0.000	0.000	0.000	0.000
5	0.000	1.097	0.008	0.114	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	2.613	7.107	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.085	0.000	0.000	0.000	0.000
11	0.039	0.000	0.044	0.147	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000
15	0.691	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	0.450	0.000	0.112	0.171	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.720	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	0.025	0.000	0.000	0.363	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.003	0.094	0.000	0.001	0.000	0.000
24	0.000	0.000	0.000	0.927	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.222	0.000	0.000	0.171	0.000	0.000	0.000	0.000
29	0.099	0.000	0.000	3.456	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.119	0.026	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
33	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
34	0.139	0.000	0.000	1.267	0.019	0.001	0.000	0.000
35	0.016	0.000	0.032	1.109	0.000	0.000	0.000	0.000
36	0.485	0.000	0.000	6.063	0.173	0.004	0.000	0.044
37	0.000	0.000	0.000	0.064	0.000	0.000	0.000	0.000
38	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000
39	0.756	0.000	0.001	0.140	0.000	0.000	0.000	0.000
40	0.000	0.000	0.148	0.076	0.005	0.000	0.000	0.000
41	0.000	0.000	0.279	0.151	0.001	0.000	0.000	0.000
42	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
43	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
44	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.910	0.000	0.000	0.212	0.000	0.000	0.000	0.000
46	2.479	0.000	0.013	0.965	0.000	0.000	0.000	0.000
47	0.269	0.000	0.000	2.979	0.000	0.000	0.998	0.000
48	0.000	0.000	0.018	1.540	0.000	0.013	0.099	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
51	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
53	0.074	0.000	0.363	1.053	0.001	0.010	0.000	0.000
54	0.000	0.000	0.007	2.047	0.000	0.008	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

File LPDATA4 10/22/90 Page 2-5

row	POMNDW90	IRHTDW90	PYPADW90	ULVADW90	CRYPDW90	CERADW90	RHODDW90	MICRDW90
58	1.453	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59	0.228	0.000	0.000	0.069	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	13.398	0.000	0.007	0.000	0.000
61	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
63	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
64	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
66	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

File LPDATA4 10/22/90 Page 1-6

row	MPAPDW90	PRIODW90	GRACDW90	MINQDN90	PSTMDN90	SGIGDN90	TJAPDN90	CNUTDN90
1	0.000	0.000	0.000	0	0	0	0	0
2	0.000	0.000	0.000	0	0	0	0	0
3	0.000	0.000	0.000	0	0	0	0	0
4	0.000	0.000	0.000	0	0	0	0	0
5	0.000	0.000	0.000	3	4	4	0	0
6	0.041	0.000	0.000	0	0	0	0	0
7	0.000	0.000	0.000	0	0	0	0	0
8	0.000	0.000	0.000	0	0	0	0	0
9	0.000	0.000	0.000	0	0	0	0	0
10	0.000	0.000	0.000	0	0	0	0	0
11	0.000	0.000	0.000	0	0	0	0	0
12	0.000	0.000	0.000	0	0	0	0	0
13	0.000	0.000	0.000	0	0	0	0	0
14	0.000	0.000	0.000	0	0	0	0	0
15	0.000	0.000	0.000	0	0	0	0	0
16	0.000	0.000	0.000	0	0	0	0	0
17	0.000	0.000	0.000	0	1	0	0	0
18	0.000	0.000	0.000	0	0	1	0	0
19	0.000	0.000	0.000	0	0	0	0	0
20	0.000	0.000	0.000	0	0	0	0	0
21	0.000	0.000	0.000	0	0	0	0	0
22	0.000	0.000	0.000	6	2	0	0	0
23	0.000	0.000	0.000	5	1	1	0	0
24	0.000	0.000	0.108	0	0	1	0	0
25	0.000	0.000	0.000	0	0	0	0	0
26	0.000	0.000	0.000	0	0	0	0	0
27	0.000	0.000	0.000	0	0	0	0	0
28	0.000	0.000	0.000	0	1	0	1	0
29	0.000	0.000	0.000	3	0	0	0	0
30	0.000	0.000	0.000	0	0	0	0	0
31	0.000	0.000	0.000	0	0	0	0	0
32	0.000	0.000	0.000	0	0	0	0	0
33	0.000	0.000	0.000	0	0	0	0	0
34	0.000	0.000	0.000	0	0	0	0	0
35	0.000	0.000	0.000	1	1	0	0	1
36	0.000	0.000	0.000	5	0	0	0	0
37	0.000	0.000	0.000	0	0	0	0	0
38	0.000	0.000	0.000	0	0	0	0	0
39	0.000	0.000	0.000	0	1	0	0	0
40	0.000	0.000	0.000	2	2	1	0	1
41	0.000	0.000	0.000	1	1	0	0	0
42	0.000	0.000	0.000	1	0	0	0	0
43	0.000	0.000	0.000	0	0	0	0	0
44	0.000	0.000	0.000	0	0	0	0	0
45	0.000	0.000	0.000	0	0	0	0	0
46	0.000	0.000	0.000	1	1	0	1	0
47	0.000	0.000	0.000	0	3	0	0	0
48	0.000	0.000	0.006	0	0	0	0	0
49	0.000	0.000	0.000	0	0	0	0	0
50	0.000	0.000	0.000	0	0	0	0	0
51	0.000	0.000	0.000	0	0	0	0	0
52	0.000	0.000	0.000	0	8	4	0	0
53	0.000	0.000	0.000	2	2	1	0	1
54	0.000	0.257	0.167	0	0	0	0	0
55	0.000	0.000	0.000	0	0	0	0	0
56	0.000	0.000	0.000	0	0	0	0	0
57	0.000	0.000	0.000	0	1	0	0	0

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row	MPAPDW90	PRIODW90	GRACDW90	MINQDN90	PSTMDN90	SGIGDN90	TJAPDN90	CNUTDN90
58	0.000	0.000	0.000	0	5	0	0	0
59	0.000	0.000	0.000	3	0	2	0	0
60	0.000	0.000	0.000	0	0	0	0	0
61	0.000	0.000	0.000	0	0	0	0	0
62	0.000	0.000	0.000	0	0	0	0	0
63	0.000	0.000	0.000	0	0	0	0	0
64	0.000	0.000	0.000	0	0	0	0	0
65	0.000	0.000	0.000	0	0	0	0	0
66	0.000	0.000	0.000	1	0	0	0	0

File LPDATA4 10/22/90 Page 1-7

row	MINQDW90	PSTMDW90	SGIGDW90	TJAPDW90	CNUTDW90	TBIVDN90	TBIVDW90	TOTALGDW90
1	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0	0.000	0.336
5	4.060	25.417	127.294	0.000	0.000	11	156.771	1.661
6	0.000	0.000	0.000	0.000	0.000	0	0.000	2.674
7	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0	0.000	0.085
11	0.000	0.000	0.000	0.000	0.000	0	0.000	0.230
12	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0	0.000	0.014
15	0.000	0.000	0.000	0.000	0.000	0	0.000	0.691
16	0.000	0.000	0.000	0.000	0.000	0	0.000	3.223
17	0.000	9.329	0.000	0.000	0.000	1	9.329	0.720
18	0.000	0.000	3.379	0.000	0.000	1	3.379	0.000
19	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0	0.000	0.388
22	18.558	8.403	0.000	0.000	0.000	8	26.961	0.000
23	14.029	11.543	6.075	0.000	0.000	7	31.647	0.137
24	0.000	0.000	143.820	0.000	0.000	1	143.820	1.035
25	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
28	0.000	10.745	0.000	0.539	0.000	2	11.284	0.450
29	7.939	0.000	0.000	0.000	0.000	3	7.939	3.555
30	0.000	0.000	0.000	0.000	0.000	0	0.000	0.119
31	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
32	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
33	0.000	0.000	0.000	0.000	0.000	0	0.000	0.001
34	0.000	0.000	0.000	0.000	0.000	0	0.000	1.505
35	1.104	0.629	0.000	0.000	0.807	3	2.540	1.183
36	1.934	0.000	0.000	0.000	0.000	5	1.934	6.730
37	0.000	0.000	0.000	0.000	0.000	0	0.000	0.064
38	0.000	0.000	0.000	0.000	0.000	0	0.000	0.006
39	0.000	0.606	0.000	0.000	0.000	1	0.606	0.897
40	1.387	15.836	58.795	0.000	2.074	6	78.092	0.307
41	2.317	0.778	0.000	0.000	0.000	2	3.095	0.431
42	1.273	0.000	0.000	0.000	0.000	1	1.273	0.000
43	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
44	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0	0.000	1.123
46	1.095	0.142	0.000	0.723	0.000	3	1.960	3.957
47	0.000	15.964	0.000	0.000	0.000	3	15.964	5.124
48	0.000	0.000	0.000	0.000	0.000	0	0.000	1.921
49	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
51	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
52	0.000	40.263	163.419	0.000	0.000	12	203.682	0.000
53	1.318	1.689	72.232	0.000	1.425	6	76.664	1.490
54	0.000	0.000	0.000	0.000	0.000	0	0.000	2.221
55	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
56	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
57	0.000	0.572	0.000	0.000	0.000	1	0.572	3.542

File LPDATA4 10/22/90 Page 2-7

row	MINQDW90	PSTMDW90	SGIGDW90	TJAPDW90	CNUTDW90	TBIVDN90	TBIVDW90	TOTALGDW90
58	0.000	35.109	0.000	0.000	0.000	5	35.109	1.453
59	2.098	0.000	65.952	0.000	0.000	5	68.050	0.297
60	0.000	0.000	0.000	0.000	0.000	0	0.000	13.393
61	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
62	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
63	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
64	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
66	17.517	0.000	0.000	0.000	0.000	1	17.517	0.000

File LPDATA4 10/22/90 Page 1-8

row	TOTALGCOV	TREATMNT90
1	0.	R
2	0.	R
3	0.	R
4	6.	R
5	14.	R
6	30.	R
7	0.	F
8	0.	F
9	0.	F
10	8.	R
11	8.	R
12	0.	R
13	0.	F
14	1.	F
15	14.	F
16	26.	R
17	12.	R
18	0.	R
19	0.	F
20	0.	F
21	1.	F
22	0.	R
23	18.	R
24	58.	R
25	0.	F
26	0.	F
27	0.	F
28	8.	R
29	8.	R
30	0.	R
31	0.	F
32	0.	F
33	0.	F
34	28.	R
35	16.	R
36	32.	R
37	0.	F
38	0.	F
39	18.	F
40	9.	R
41	4.	R
42	0.	R
43	0.	F
44	0.	F
45	16.	F
46	20.	R
47	74.	R
48	30.	R
49	0.	F
50	0.	F
51	40.	F
52	6.	R
53	24.	R
54	50.	R
55	0.	F
56	0.	F
57	12.	F

File LPDATA4 10/22/90 Page 2-8

row	TOTALGCOV	TREATMNT90
58	4.	R
59	32.	R
60	100.	R
61	0.	R
62	0.	R
63	0.	R
64	0.	R
65	0.	R
66	0.	R

File LPDATA5 10/22/90 Page 1-1

row	EJDAY	TRANS90	ELEV90	MINQLN90	MINQDW90	PSTMLN90	PSTMDW90	SGIGLN90	SGIGDW90
1	1983	1.	0	32	2.179	0	0.000	0	0.00
2	1983	1.	0	21	0.792	0	0.000	0	0.00
3	1983	1.	0	26	1.089	0	0.000	0	0.00
4	1983	1.	0	0	0.000	32	5.791	0	0.00
5	1983	1.	0	0	0.000	35	7.453	0	0.00
6	1983	1.	0	0	0.000	34	5.757	0	0.00
7	1983	1.	0	0	0.000	37	6.416	0	0.00
8	1983	1.	0	0	0.000	0	0.000	35	5.60
9	1983	1.	0	0	0.000	0	0.000	72	53.78
10	1983	1.	0	0	0.000	0	0.000	65	35.00
11	1983	1.	0	0	0.000	0	0.000	62	32.92
12	1983	3.	0	0	0.000	40	9.329	0	0.00
13	1983	3.	-2	0	0.000	0	0.000	31	3.38
14	1983	4.	2	35	2.732	0	0.000	0	0.00
15	1983	4.	2	40	6.176	0	0.000	0	0.00
16	1983	4.	2	38	1.645	0	0.000	0	0.00
17	1983	4.	2	37	4.633	0	0.000	0	0.00
18	1983	4.	2	31	2.027	0	0.000	0	0.00
19	1983	4.	2	27	1.341	0	0.000	0	0.00
20	1983	4.	2	0	0.000	37	7.760	0	0.00
21	1983	4.	2	0	0.000	27	0.643	0	0.00
22	1983	4.	0	0	0.000	42	11.543	0	0.00
23	1983	4.	0	44	4.405	0	0.000	0	0.00
24	1983	4.	0	37	2.606	0	0.000	0	0.00
25	1983	4.	0	35	3.744	0	0.000	0	0.00
26	1983	4.	0	27	0.917	0	0.000	0	0.00
27	1983	4.	0	33	2.357	0	0.000	0	0.00
28	1983	4.	0	33	0.000	0	0.000	38	6.08
29	1983	4.	-2	0	0.000	0	0.000	100	143.82
30	1983	5.	2	0	0.000	38	10.745	0	0.00
31	1983	5.	2	0	0.000	0	0.000	0	0.00
32	1983	5.	0	39	2.496	0	0.000	0	0.00
33	1983	5.	0	41	4.211	0	0.000	0	0.00
34	1983	5.	0	26	1.232	0	0.000	0	0.00
35	1983	6.	0	27	1.104	0	0.000	0	0.00
36	1983	6.	0	0	0.000	16	0.629	0	0.00
37	1983	6.	0	0	0.000	0	0.000	0	0.00
38	1983	6.	-2	20	0.472	0	0.000	0	0.00
39	1983	6.	-2	22	0.581	0	0.000	0	0.00
40	1983	6.	-2	29	0.411	0	0.000	0	0.00
41	1983	6.	-2	22	0.468	0	0.000	0	0.00
42	1983	6.	-2	27	0.524	0	0.000	0	0.00
43	1982	7.	4	0	0.000	20	0.606	0	0.00
44	1982	7.	2	20	1.142	0	0.000	0	0.00
45	1982	7.	2	17	0.245	0	0.000	0	0.00
46	1982	7.	2	0	0.000	37	7.569	0	0.00
47	1982	7.	2	0	0.000	0	0.000	0	0.00
48	1982	7.	2	0	0.000	0	0.000	72	58.80
49	1982	7.	2	0	0.000	0	0.000	0	0.00
50	1982	7.	0	33	2.317	0	0.000	0	0.00
51	1982	7.	0	0	0.000	18	0.778	0	0.00
52	1982	7.	-2	23	1.273	0	0.000	0	0.00
53	1982	8.	2	23	1.095	0	0.000	0	0.00
54	1982	8.	2	0	0.000	10	0.142	0	0.00
55	1982	8.	2	0	0.000	0	0.000	0	0.00
56	1982	8.	0	0	0.000	18	0.784	0	0.00
57	1982	8.	0	0	0.000	36	6.389	0	0.00

File LPDATA5 10/22/90 Page 2-1

row	EJDAY	TRANS90	ELEV90	MINQLN90	MINQDW90	PSTMLN90	PSTMDW90	SGIGLN90	SGIGDW90
58	1982	8.	0	0	0.000	41	8.791	0	0.00
59	1982	9.	2	0	0.000	40	7.771	0	0.00
60	1982	9.	2	0	0.000	42	12.794	0	0.00
61	1982	9.	2	0	0.000	43	10.495	0	0.00
62	1982	9.	2	0	0.000	34	6.790	0	0.00
63	1982	9.	2	0	0.000	16	0.608	0	0.00
64	1982	9.	2	0	0.000	16	0.531	0	0.00
65	1982	9.	2	0	0.000	18	0.659	0	0.00
66	1982	9.	2	0	0.000	17	0.675	0	0.00
67	1982	9.	2	0	0.000	0	0.000	65	23.47
68	1982	9.	2	0	0.000	0	0.000	70	50.28
69	1982	9.	2	0	0.000	0	0.000	71	49.72
70	1982	9.	2	0	0.000	0	0.000	69	39.99
71	1982	9.	0	25	0.760	0	0.000	0	0.00
72	1982	9.	0	21	0.558	0	0.000	0	0.00
73	1982	9.	0	0	0.000	0	0.000	84	72.23
74	1982	9.	0	0	0.000	0	0.000	0	0.00
75	1982	9.	0	0	0.000	15	0.000	0	0.00
76	1982	9.	0	0	0.000	18	0.000	0	0.00
77	1982	9.	4	0	0.000	16	0.572	0	0.00
78	1982	9.	2	0	0.000	40	11.548	0	0.00
79	1982	9.	2	0	0.000	36	8.230	0	0.00
80	1982	9.	2	0	0.000	17	0.495	0	0.00
81	1982	9.	2	0	0.000	37	14.144	0	0.00
82	1982	9.	2	0	0.000	19	0.688	0	0.00
83	1982	9.	0	26	1.347	0	0.000	0	0.00
84	1982	9.	0	19	0.382	0	0.000	0	0.00
85	1982	9.	0	19	0.369	0	0.000	0	0.00
86	1982	9.	0	0	0.000	0	0.000	80	64.97
87	1982	9.	0	0	0.000	0	0.000	22	0.98
88	1984	10.	-2	68	17.517	0	0.000	0	0.00

File LPDATA5 10/22/90 Page 1-2

row	TJAPLN90	TJAPDW90	CNUTLN90	CNUTDW90
1	0	0.000	0	0.000
2	0	0.000	0	0.000
3	0	0.000	0	0.000
4	0	0.000	0	0.000
5	0	0.000	0	0.000
6	0	0.000	0	0.000
7	0	0.000	0	0.000
8	0	0.000	0	0.000
9	0	0.000	0	0.000
10	0	0.000	0	0.000
11	0	0.000	0	0.000
12	0	0.000	0	0.000
13	0	0.000	0	0.000
14	0	0.000	0	0.000
15	0	0.000	0	0.000
16	0	0.000	0	0.000
17	0	0.000	0	0.000
18	0	0.000	0	0.000
19	0	0.000	0	0.000
20	0	0.000	0	0.000
21	0	0.000	0	0.000
22	0	0.000	0	0.000
23	0	0.000	0	0.000
24	0	0.000	0	0.000
25	0	0.000	0	0.000
26	0	0.000	0	0.000
27	0	0.000	0	0.000
28	0	0.000	0	0.000
29	0	0.000	0	0.000
30	0	0.000	0	0.000
31	15	0.539	0	0.000
32	0	0.000	0	0.000
33	0	0.000	0	0.000
34	0	0.000	0	0.000
35	0	0.000	0	0.000
36	0	0.000	0	0.000
37	0	0.000	20	0.807
38	0	0.000	0	0.000
39	0	0.000	0	0.000
40	0	0.000	0	0.000
41	0	0.000	0	0.000
42	0	0.000	0	0.000
43	0	0.000	0	0.000
44	0	0.000	0	0.000
45	0	0.000	0	0.000
46	0	0.000	0	0.000
47	0	0.000	25	2.074
48	0	0.000	0	0.000
49	0	0.000	0	0.000
50	0	0.000	0	0.000
51	0	0.000	0	0.000
52	0	0.000	0	0.000
53	0	0.000	0	0.000
54	0	0.000	0	0.000
55	18	0.723	0	0.000
56	0	0.000	0	0.000
57	0	0.000	0	0.000

File LPDATA5 10/22/90 Page 2-2

row	TJAPLN90	TJAPDW90	CNUTLN90	CNUTDW90
58	0	0.000	0	0.000
59	0	0.000	0	0.000
60	0	0.000	0	0.000
61	0	0.000	0	0.000
62	0	0.000	0	0.000
63	0	0.000	0	0.000
64	0	0.000	0	0.000
65	0	0.000	0	0.000
66	0	0.000	0	0.000
67	0	0.000	0	0.000
68	0	0.000	0	0.000
69	0	0.000	0	0.000
70	0	0.000	0	0.000
71	0	0.000	0	0.000
72	0	0.000	0	0.000
73	0	0.000	0	0.000
74	0	0.000	22	1.425
75	0	0.000	0	0.000
76	0	0.000	0	0.000
77	0	0.000	0	0.000
78	0	0.000	0	0.000
79	0	0.000	0	0.000
80	0	0.000	0	0.000
81	0	0.000	0	0.000
82	0	0.000	0	0.000
83	0	0.000	0	0.000
84	0	0.000	0	0.000
85	0	0.000	0	0.000
86	0	0.000	0	0.000
87	0	0.000	0	0.000
88	0	0.000	0	0.000

File LINCEELG 10/22/90 Page 1-1

row	PATCHNO	ELEV	AREA	REP	SNDCOV88	GRAVCOV88	SHELLCOV88	ANTHOCOV88	ZOSCOV88
1	1	-1.5	137	1	67	0	0.	0	11
2	1	-1.5		2	0	0	0.	0	92
3	1	-1.5		3	6	0	0.	0	83
4	1	-1.5		4	35	0	0.	0	17
5	2	-1.0	2						
6	3	-0.7	10	1	0	0	0.	0	67
7	3	-0.7		2	0	0	0.	0	11
8	4	-1.1	23						
9	5	-1.1	21	1	8	0	0.	0	0
10	5	-1.1		2	81	0	0.	0	8
11	6	-2.5	14						
12	7	-2.0	17						
13	8	-2.5	121	1	0	0	0.	0	14
14	8	-2.5		2	6	0	0.	0	44
15	8	-2.5		3	81	0	0.	0	0
16	9	-2.0	61						
17	10	-2.0	42						
18	11	-2.0	15						
19	12	-2.0	8						
20	13	-2.0	117	1	14	0	0.	0	39
21	13	-2.0		2	8	0	0.	0	42
22	13	-2.0		3	0	0	0.	0	89
23	14	-2.0	24						
24	15	-2.0	166	1	3	0	0.	0	64
25	15	-2.0		2	0	0	0.	0	78
26	16	-2.0	122						
27	17	-2.0	424	1	0	0	0.	0	94
28	17	-2.0		2	3	94	0.	0	0
29	17	-2.0		3	8	0	0.	0	14
30	18	-1.0	447	1	94	0	0.	0	0
31	18	-1.0		2	72	0	0.	0	22
32	18	-1.0		3	0	86	0.	0	14
33	18	-1.0		4	3	0	0.	0	92
34	18	-1.0		5	58	0	0.	0	0
35	18	-1.0		6	17	0	0.	6	61
36	18	-1.0		7	17	0	6.	0	75
37	18	-1.0		8	8	0	0.	0	11
38	18	-1.0		9	0	0	0.	0	0
39	18	-1.0		10	6	0	0.	0	8
40	18	-1.0		11	19	0	0.	0	0
41	19	-2.0	750	1	17	0	0.	0	56
42	19	-2.0		2	17	0	0.	0	61
43	19	-2.0		3	6	0	0.	0	83
44	19	-2.0		4	6	0	0.	0	83
45	19	-2.0		5	3	0	0.	0	89
46	19	-2.0		6	6	0	0.	0	94
47	19	-2.0		7	3	0	0.	0	72
48	19	-2.0		8	3	0	0.	0	92
49	19	-2.0		9	11	0	0.	0	83
50	19	-2.0		10	21	0	0.	0	21

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row	ULVACOV88	LAMCOV88	SARGCOV88	SMITHCOV88	ALARCOV88	ZOSDEN88	ZOSSHBM88
1	22.	0.	0.	0	0	110	18.39
2	8.	0.	0.	0	0	450	76.34
3	11.	0.	0.	0	0	190	27.83
4	8.	0.	0.	0	0	130	25.71
5							
6	33.	0.	0.	0	0	280	17.07
7	14.	0.	0.	0	0	50	7.60
8							
9	92.	0.	0.	0	0	10	7.09
10	11.	0.	0.	0	0	0	0.00
11							
12							
13	0.	86.	0.	0	0	110	17.59
14	50.	0.	0.	0	0	90	29.04
15	8.	0.	11.	0	0	0	0.00
16							
17							
18							
19							
20	0.	0.	0.	47	0	140	33.71
21	0.	0.	11.	39	0	220	62.93
22	0.	0.	0.	11	0	530	138.54
23							
24	0.	0.	0.	33	0	420	81.67
25	0.	0.	0.	22	0	640	165.52
26							
27	0.	0.	6.	0	0	230	38.40
28	3.	0.	0.	0	0	0	0.00
29	72.	0.	6.	0	0	220	25.01
30	0.	0.	0.	0	6	0	0.00
31	6.	0.	0.	0	0	70	7.62
32	0.	0.	0.	0	0	110	37.99
33	6.	0.	0.	0	0	460	63.55
34	39.	3.	0.	0	0	0	0.00
35	17.	0.	0.	0	0	440	48.77
36	3.	0.	0.	0	0	60	13.94
37	81.	0.	0.	0	0	90	15.67
38	0.	0.	0.	0	0	0	0.00
39	69.	0.	0.	0	17	190	17.37
40	31.	0.	50.	0	0	0	0.00
41	28.	0.	0.	0	0	110	24.20
42	22.	0.	0.	0	0	100	28.77
43	11.	0.	0.	0	0	70	52.82
44	11.	0.	0.	0	0	490	59.59
45	8.	0.	0.	0	0	540	105.44
46	0.	0.	0.	0	0	270	54.13
47	0.	0.	0.	0	0	310	49.77
48	6.	0.	0.	0	0	310	55.93
49	6.	0.	0.	0	0	220	40.27
50	59.	0.	0.	0	0	220	57.36

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row	ZOSRTBM88	ULVABM88	LAMBM88	SARGBM88	EPIPHYBM88	MICROBM88	CERAMBM88
1	128.55	0.00	0.00	0.00	6.02	0.00	0.00
2	151.08	0.00	0.00	0.00	3.42	0.00	0.00
3	441.83	0.00	0.00	0.00	3.66	0.00	0.00
4	76.45	0.00	0.00	0.00	2.46	0.00	0.00
5							
6	198.67	0.00	0.00	0.00	1.86	0.00	0.00
7	54.35	0.29	0.00	0.00	0.90	0.00	0.03
8							
9	0.00	0.00	0.00	0.00	0.92	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11							
12							
13	0.00	24.04	39.09	0.20	0.96	1.23	0.00
14	164.45	0.00	0.00	0.00	0.95	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16							
17							
18							
19							
20	0.00	0.00	0.00	0.00	18.06	0.00	0.00
21	149.53	0.00	0.00	0.00	82.52	0.00	0.00
22	287.23	0.00	0.00	0.00	28.12	0.00	0.00
23							
24	274.70	0.00	0.00	0.00	67.46	0.00	0.00
25	167.83	0.00	0.00	0.00	167.18	0.00	0.00
26							
27	0.00	1.37	0.00	0.12	1.25	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	140.80	21.95	0.00	0.17	3.89	0.21	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.05	0.00
32	0.00	0.00	0.00	0.56	2.75	0.00	0.00
33	21.26	2.53	0.00	0.00	0.00	0.18	0.00
34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	299.34	0.62	0.00	0.06	1.81	0.01	0.00
36	337.36	0.00	0.00	0.15	0.73	0.08	0.00
37	39.00	0.00	0.00	0.25	0.25	0.00	0.00
38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	134.04	0.00	0.00	0.00	0.12	0.00	0.00
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	4.65	0.00	0.00	0.00	0.83	0.00	0.00
42	12.95	0.00	0.00	0.00	3.76	0.00	0.00
43	33.09	0.00	0.00	0.00	1.50	0.00	0.00
44	173.47	0.00	0.00	0.00	8.23	0.00	0.00
45	18.16	0.00	0.00	0.00	1.79	0.00	0.00
46	44.21	0.00	0.00	0.00	4.38	0.00	0.00
47	109.82	0.00	0.00	0.00	7.34	0.00	0.00
48	91.10	0.00	0.00	0.00	2.23	0.00	0.00
49	161.50	0.00	0.00	0.00	3.70	0.00	0.00
50	91.80	0.00	0.00	0.00	4.53	0.00	0.00

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row	MONOSBM88	POLYSIBM88	ENTERBM88	CLADOPBM88	AGARDHBM88	GRACILBM88	ZOSMNDN88
1	0.00	0.00	0.00	0.E0000	0.00	0.00	220.
2	2.30	0.00	0.00	0.E0000	0.00	0.00	165.
3	1.61	0.00	0.00	0.E0000	0.00	0.00	5.
4	3.72	0.00	0.00	0.E0000	0.00	0.00	67.
5							297.
6	0.74	0.32	0.00	1.E-003	0.00	0.00	530.
7	0.00	0.00	0.00	0.E0000	0.00	0.00	150.
8							129.
9	0.00	0.00	0.00	0.E0000	0.00	0.00	264.
10	0.00	0.00	0.00	0.E0000	0.00	0.00	
11							
12							
13	2.44	0.00	0.00	0.E0000	0.37	0.00	
14	3.62	0.00	0.00	0.E0000	0.00	0.00	
15	0.00	0.00	0.00	0.E0000	0.00	0.00	
16							
17							
18							
19							
20	0.00	0.00	0.00	0.E0000	0.00	0.00	
21	0.00	0.00	0.00	0.E0000	0.00	0.00	
22	0.00	0.00	0.00	0.E0000	0.00	0.00	
23							
24	0.00	0.00	0.00	0.E0000	0.00	0.00	
25	0.00	0.00	0.00	0.E0000	0.00	0.00	
26							
27	0.00	0.00	0.00	0.E0000	0.00	0.00	
28	0.00	0.00	0.00	0.E0000	0.00	0.00	
29	0.45	0.00	0.20	0.E0000	0.00	0.34	
30	0.00	0.00	0.00	0.E0000	0.00	0.00	
31	0.00	0.00	1.08	0.E0000	0.00	0.00	
32	2.17	0.00	0.00	0.E0000	0.00	0.00	
33	0.00	0.00	0.00	0.E0000	0.00	0.00	
34	0.00	0.00	0.00	0.E0000	0.00	0.00	
35	3.70	0.00	0.00	0.E0000	0.00	1.11	
36	0.00	0.00	0.00	0.E0000	0.00	0.00	
37	0.25	0.00	0.00	0.E0000	0.00	0.00	
38	0.00	0.00	0.00	0.E0000	0.00	0.00	
39	1.53	0.00	0.00	0.E0000	0.00	0.00	
40	0.00	0.00	0.00	0.E0000	0.00	0.00	
41	0.00	0.00	0.00	0.E0000	0.00	0.00	
42	0.00	0.00	0.00	0.E0000	0.00	0.00	
43	0.00	0.00	0.00	0.E0000	0.00	0.00	
44	0.00	0.00	0.00	0.E0000	0.00	0.00	
45	0.00	0.00	0.00	0.E0000	0.00	0.00	
46	0.00	0.00	0.00	0.E0000	0.00	0.00	
47	0.00	0.00	0.00	0.E0000	0.00	0.00	
48	0.00	0.00	0.00	0.E0000	0.00	0.00	
49	0.00	0.00	0.00	0.E0000	0.00	0.00	
50	0.00	0.00	0.00	0.E0000	0.00	0.00	

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row	PARCHMN88	ZOSMNSBM88	EPIMNBM88	ZOSMNCOV88	TOTALGBM88	MNAGBM88	MNALGCOV88
1	1	37.1	3.9	50.7	6.02	5.8	12.3
2	3	12.3	1.4	39.0	5.72	2.1	23.5
3	5	3.5	0.5	4.0	5.27	0.5	51.5
4	8	15.5	0.6	19.3	6.18	24.3	51.7
5	13	78.4	42.9	56.7		42.9	36.0
6	15	123.6	117.3	71.0	2.92	117.3	27.5
7	17	21.1	1.7	36.0	1.22	10.0	29.7
8	18	18.6	0.5	25.7		1.8	29.8
9	19	52.8	3.8	73.4	0.92	3.8	15.1
10					0.00		
11							
12							
13					68.33		
14					4.57		
15					0.00		
16							
17							
18							
19							
20					18.06		
21					82.52		
22					28.12		
23							
24					67.46		
25					167.18		
26							
27					2.74		
28					0.00		
29					27.21		
30					0.00		
31					1.13		
32					5.48		
33					2.71		
34					0.00		
35					7.31		
36					0.96		
37					0.75		
38					0.00		
39					1.65		
40					0.00		
41					0.83		
42					3.76		
43					1.50		
44					8.23		
45					1.79		
46					4.36		
47					7.34		
48					2.23		
49					3.70		
50					4.53		

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row	TOTALCOV88	ZOSMNRBM88	TALBXEPI88	ZOSVARDN88	PTCHAREA88	AREA90	TOTALGCV90
1	22	199.5	1.9	112	137	210	42
2	8	126.5	0.7	161	10		0
3	11	0.0	0.0	10	21		4
4	8	54.8	23.7	52	121		8
5		145.6	0.0	143	117	7	
6	33	221.3	0.0	46	166	7	12
7	14	46.9	8.3	113	424		6
8		75.5	1.3	221	447	34	
9	92	74.1	0.0	95	750	24	62
10	11						24
11						0	
12						3	
13	86					71	8
14	50						16
15	19						12
16							
17						1	
18						1	
19						1	
20	47					1	
21	50						
22	11						
23						1	
24	33					21	2
25	22						0
26						160	
27	6					540	14
28	3						38
29	80						12
30	6					101	100
31	6						100
32	0						100
33	6						100
34	42						100
35	17						100
36	3						100
37	81						
38	0						
39	86						
40	81						
41	28					750	5
42	22						3
43	11						2
44	11						0
45	8						5
46	0						35
47	0						43
48	6						30
49	6						30
50	59						35

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row	ZOSCOV90	ZOSDEN90	ZOSSHBM90	ZOSRTBM90	EPIPHYBM90	EELTREATMT
1	52	200	16.00	22.536	7.0	R
2	0	0	0.00	0.000	0.0	R
3	8	130	23.92	0.764	12.4	R
4	34	340	54.40	189.713	25.5	R
5						R
6	34	330	62.70	39.980	10.6	R
7	20	150	10.20	17.061	2.3	R
8						R
9	4	120	21.48	97.021	10.0	F
10	20	270	10.72	151.897	10.8	F
11						F
12						F
13	24	110	34.21	0.000	11.7	F
14	36	120	21.60	99.695	2.4	F
15	8	80	18.24	16.425	3.6	F
16						F
17						F
18						F
19						F
20						F
21						F
22						F
23						F
24	2	40	5.72	43.672	2.3	F
25	0	0	0.00	0.000	0.0	F
26						F
27	20	90	23.00	0.000	0.0	F
28	22	240	27.36	144.385	25.9	F
29	24	80	16.80	0.127	4.8	F
30	12	70	10.85	74.994	4.8	F
31	0	10	1.71	0.000	0.2	F
32	0	0	0.00	0.000	0.0	F
33	0	20	2.16	0.000	0.0	F
34	0	0	0.00	0.000	0.0	F
35	16			0.000	0.0	F
36	0	0			0.0	F
37						F
38						F
39						F
40						F
41	40	240	22.13	40.616	12.0	R
42	15	40	2.98	0.000	0.4	R
43	10	50	7.00	29.921	2.5	R
44	3	20	0.82	0.000	0.4	R
45	5	60	3.99	4.584	43.8	R
46	10	250	29.62	16.170	142.5	R
47	5	0	66.53	6.875	0.0	R
48	10	240	80.36	173.415	14.4	R
49	2	30	2.00	12.350	11.4	R
50	4	170	12.54	7.894	6.8	R