# THE SPATIAL AND SEASONAL DISTRIBUTION OF SUMMER FLOUNDER *(Paralichthys dentatus)* BASED ON RESEARCH VESSEL BOTTOM TRAWL SURVEYS

By

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## INTRODUCTION

This paper describes the spatial and seasonal distribution of the summer flounder (*Paralichthys dentatus*) based on data collected during Northeast Fisheries Center (NEFC) research vessel bottom trawl surveys. The following factors are considered in the analyses: depth, bottom water termperature, geographic location, season, and size of summer flounder. The analyses were undertaken at the request of Scientific and Statistical Committee of the Northeast Region State/Federal Summer Flounder Program.

## DATA BASE AND METHOD

Autumn research vessel bottom trawl surveys have been conducted in the Continental Shelf waters off the Northeastern USA between 27 and 365 meters since 1963 utilizing the R/Vs ALBATROSS IV and DELAWARE II. Initially, the survey area extended from Nova Scotia to just south of Hudson Canyon. In 1967, the survey area was extended southward to Cape Hatteras. The standard "36 Yankee" trawl with a 1.5 cm stretch mesh cod-end liner has been used throughout the time series of autumn surveys. In 1968, a spring survey was undertaken on an on-going basis. Between 1968-1972, the spring survey utilized the same trawl net as the autumn survey. Beginning in 1973, a modified high-opening "41 Yankee" trawl was adopted during spring surveys. Fishing power coefficients for the "41 Yankee" relative to the "36 Yankee" have been calculated for many important species including summer flounder (Sissenwine and Bowman 1978). Note that because of violations of the underlying assumptions of the analyses used to calculate these fishing power coefficients for summer

flounder, the confidence intervals of the coefficients (1.23 for catch in numbers, 1.31 for catch in weight) are probably in excess of ± 30%. Nevertheless, these fishing power coefficients were used in order to adjust spring survey data collected using the "41 Yankee" trawl for the purpose of comparison with other data collected using the "36 Yankee" trawl.

In addition to spring and summer bottom trawl surveys conducted in offshore areas (greater than 27 meters) as noted above, NEFC has also conducted winter and summer surveys of the same region; inshore surveys of the area from Cape Hatteras to Nova Scotia during summer, spring and autumn; and surveys from Cape Hatteras southward to Cape Fear, both inshore and offshore during all seasons of the year. In this paper, data from 1970 through spring 1979 for all of the areas and seasons surveyed, as well as those from three winter cruises conducted between 1964 and 1966, are considered. All data were collected by either the R/V ALBATROSS IV or R/V DELAWARE II using the "36 Yankee" trawl except for offshore spring surveys since 1973 during which the "41 Yankee" trawl was used. The specific cruises considered in this paper are summarized in Table 1.

All sampling during NEFC bottom trawl surveys has been based on a stratified random design; the survey area has been stratified into zones primarily on a basis of depth and latitude (see Figures 1-3 for definitions of strata). Stations are allocated to strata approximately in proportion to the area of each strata and then randomly assigned to specific locations. Following collection of hydrographic data, a 30 minute tow is taken at each station at an average speed of 3.5 knots. The catch from each tow is sorted and the number, weight, and length frequency are determined and recorded by species; materials (scales and otoliths) are also collected for age and maturity stage studies and other information is recorded as required. Data are audited and stored on magnetic tapes following completion of each survey.

Further description of the survey methodology is provided by Grosslein (1969, 1974). Precision of results from these surveys is discussed by Grosslein (1971) and Pennington and Grosslein (1978). In this analysis, data were summarized over all years considered. This allows examination of the long-term average variability between seasons, depths, temperature conditions, and geographic locations. Within each season, the mean catch per tow in weight (and standard deviation), mean catch per tow in numbers (and standard deviation), mean weight of fish captured, and mean number per tow of prerecruit fish (and standard deviation; prerecruit fish were defined as less than 30 cm length) was calculated for each stratum, 10 meter depth zone and 1°C temperature zone (see Appendix 1). Furthermore, the length-frequency of the catch was examined within seasons, north of Cape Hatteras, for all inshore strata and for all offshore strata combined. The survey area was further divided into twelve strata sets in order to present the data in a more detailed manner geographically (see Table 2). Four areas-Southern New England, Mid-Atlantic, Hatteras, and South of Hatteras-were divided into Inshore (<27m), Offshore (27-54m), and Deep Offshore (>54m). Length frequency histograms for strata sets north of Cape Hatteras are presented in Appendix 2. Length frequency analyses for the area south of Cape Hatteras are in progress. Seasons are defined as follows: spring, March-May; summer, June-August; autumn, September-November; winter, December-February.

This report only considers catch of fish identified as summer flounder. It is noteworthy that in the past, some specimens of southern flounder (*P. lethostigma*), broad flounder (*P. squamilentus*) and Gulf flounder (*P. albigutta*) captured south of Cape Hatteras have probably been mis-identified as summer flounder. The southern flounder has

probably also been confused with the summer flounder in the region from Cape Hatteras northward to the Virginia capes.

RESULTS AND DISCUSSION

Length frequency histograms by season and area (inshore and offshore, north of Cape Hatteras) are given in Figures 4-10. Less than 50 individuals were captured during the surveys considered for those combinations of season and area not reported in the aforementioned figures; therefore, because of the small sample size available no histograms were prepared in these cases.

Survey catches ranged in length from about 10 to 80 cm. The results clearly indicate that prerecruit summer flounder (less than 30 cm) comprise a larger proportion of the catch in inshore areas during all seasons of the year. Nevertheless, there is a significant prerecruit catch in offshore areas as well. The spring inshore catch north of Cape Hatteras exhibited the greatest predominance of prerecruit individuals.

The mean catch per tow (kg) by season and stratum is reported in Figures 11-22. The results indicate that summer flounder are most abundant in the mid-Atlantic area during all seasons of the year. There have been significant catches of summer flounder in the southern New England area (in deeper waters south of Cape Cod, stratum 11) during spring and winter. The mean catch per tow south of Cape Hatteras is generally low during all seasons of the year. Note however, that this

area has been the least intensively sampled.

The mean catch (in numbers) of prerecruits by season and stratum is reported in Figures 23-34. Prerecruits are most abundant in inshore areas of the mid-Atlantic zone during all seasons of the year except winter. No prerecruits have ever been captured during winter, and are rarely caught offshore at any time.

Figures 35-38 indicate the distribution of summer flounder catches (in weight) by depth. They are distributed widely over the continental shelf during spring, from 0 to 360 m in depth. During summer and autumn, summer flounder are primarily captured in depths of less than 100 m. During winter, they are not found at depth less than 70 m. Prerecruits (Figures 29-41), are usually found in less than 40 m, and never found in greater than 60 m depth.

The distribution of summer flounder by depth is related to their temperature distribution (Figures 42-48). During spring they are primarily found between 8-16°C. During summer the distribution is between 15-38°C. The autumn distribution is between 12-28°C and the winter distribution is between 5-11°C. Prerecruit summer flounder are most abundant at temperatures in excess of 15°C during the three seasons in which they were caught.

## REFERENCES


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Pennington, M.R. and M.D. Grosslein. 1978. Accuracy of abundance indices based on stratified-random trawl surveys. Int. Comm. Northw. Atl. Fish. Comm. Res. doc. 78/VI/77, 42 p.

Sissenwine, M.P. and E.W. Bowman. 1978. Fishing power of two bottom trawls towed by research vessels off the Northeast coast of the USA during day and night. Int. Comm. North. Atl. Fish. Comm. Res. Bull. 13:81-87.

Table 1. List of research vessel cruises considered in analysis.

INSHORE BOTTOM TRAWL SURVEY CRUISES 1972 - Spring 1979

| VESSEL | CRUISE NO. | DATE | YEAR | AREA OF INVESTIGATION | TRAWL TYPE |
|---|---|---|---|---|---|
| Albatross IV & Delaware II | 74-11<br>74-12 | 23 Sep- 4 Oct | 1974 | Block Island-Delaware Bay | #36 Yankee |
| Delaware II | 75-1 | 15 Oct- 7 Nov | 1975 | Cape Cod-Cape Hatteras | #36 Yankee |
| Delaware II | 76-05 | 3 Mar-26 Mar | 1976 | Block Island-Cape Hatteras | #41 Yankee |
| Albatross IV | 76-09 | 28 Sep-17 Oct | 1976 | Block Island-Cape Hatteras | #36 Yankee |
| Delaware II | 77-03 | 19 Mar-14 Apr | 1977 | Block Island-Cape Hatteras | #41 Yankee |
| Albatross IV & Delaware II | 77-07<br>77-09 | 27 Jul-31 Aug | 1977 | Gulf of Maine-Cape Hatteras | #36 Yankee |
| Delaware II | 77-12 | 26 Sep-15 Dec | 1977 | Block Island-Cape Hatteras | #36 Yankee |
| Albatross IV | 78-01 | 18 Jan-27 Jan | 1978 | Mid-Atlantic-So. New England | #41 Yankee |
| Albatross IV | 78-04 | 20 Mar-23 May | 1978 | Block Island-Cape Hatteras | #41 Yankee |
| Albatross IV & Delaware II | 78-09<br>78-05 | 25 Jul-11 Aug | 1978 | Gulf of Maine-Cape Hatteras | #36 Yankee |
| Delaware II | 78-05 | 30 Jul- 1 Aug | 1978 | Cape Hatteras-Cape Fear | #36 Yankee |
| Delaware II | 78-06 | 5 Sep-22 Nov | 1978 | Gulf of Maine-Cape Hatteras | #36 Yankee |
| Delaware II | 78-06 | 8 Sep-11 Sep | 1978 | Cape Hatteras-Cape Fear | #36 Yankee |
| Delaware II | 79-04 | 25 Mar-27 Mar | 1979 | Cape Hatteras-Cape Fear | #41 Yankee |
| Albatross IV & Delaware II | 79-03<br>79-04 | 21 Mar-12 May | 1979 | Gulf of Maine-Cape Hatteras | #41 Yankee |

Table 1. (Continued)

BOTTOM OFFSHORE TRAWL SURVEY CRUISES 1964 - SPRING 1979

| VESSEL | CRUISE | DATE | YEAR | AREA OF INVESTIGATION | TRAWL TYPE |
|---|---|---|---|---|---|
| Albatross IV | 64-1 | 16 Jan-15 Feb | 1964 | Nova Scotia-Hudson Canyon | #36 Yankee |
| Albatross IV | 65-2,4 | 1 Feb- 8 Apr | 1965 | Nova Scotia-Hudson Canyon | #36 Yankee |
| Albatross IV | 66-1 | 18 Jan-23 Feb | 1966 | Nova Scotia-Hudson Canyon | #36 Yankee |
| Albatross IV | 70-3 | 12 Mar-29 Apr | 1970 | Nova Scotia-Cape Hatteras | #36 Yankee |
| Alb. IV & Del. II | 70-6,7 | 3 Sep-20 Nov | 1970 | Nova Scotia-Cape Hatteras | #36 Yankee |
| Albatross IV | 71-1 | 9 Mar- 1 May | 1971 | Nova Scotia-Cape Hatteras | #36 Yankee |
| Albatross IV | 71-6 | 30 Sep-19 Nov | 1971 | Nova Scotia-Cape Hatteras | #36 Yankee |
| Albatross IV | 72-2 | 8 Mar-24 Apr | 1972 | Nova Scotia-Cape Hatteras | #36 Yankee |
| Albatross IV | 72-8 | 27 Sep-20 Nov | 1972 | Nova Scotia-Cape Hatteras | #36 Yankee |
| Alb. IV & Del. II | 73-3 | 16 Mar-15 May | 1973 | Nova Scotia-Cape Hatteras | #41 Yankee |
| Albatross IV | 73-8 | 26 Sep-20 Nov | 1973 | Nova Scotia-Cape Hatteras | #36 Yankee |
| Albatross IV | 74-4 | 12 Mar- 4 May | 1974 | Nova Scotia-Cape Hatteras | #41 Yankee |
| Albatross IV | 74-11 | 20 Sep-14 Nov | 1974 | Nova Scotia-Cape Hatteras | #36 Yankee |
| Albatross IV | 75-3 | 4 Mar-12 May | 1975 | Nova Scotia-Cape Hatteras | #41 Yankee |
| Albatross IV | 75-3 | 20 Mar-29 Mar | 1975 | Southern Georges Bank | #41 Yankee |
| Alb. IV & Del. II | 75-12,17 | 15 Oct-18 Nov | 1975 | Nova Scotia-Cape Hatteras | #36 Yankee |
| Alb. IV & Del. II | 76-02,05 | 4 Mar- 8 May | 1976 | Nova Scotia-Cape Hatteras | #41 Yankee |
| Albatross IV | 76-09 | 20 Oct-23 Nov | 1976 | Nova Scotia-Cape Hatteras | #36 Yankee |
| Alb. IV & Del. II | 77-02,03 | 19 Mar-20 May | 1977 | Gulf of Maine-Cape Hatteras | #41 Yankee |
| Alb. IV & Del. II | 77-07,09 | 27 Jul-31 Aug | 1977 | Gulf of Maine-Cape Hatteras | #36 Yankee |
| Delaware II | 77-12 | 26 Sep-15 Dec | 1977 | Nova Scotia-Cape Hatteras | #36 Yankee |
| Albatross IV | 78-01 | 18 Jan-27 Jan | 1978 | Hudson Canyon-Cape May | #41 Yankee |
| Albatross IV | 78-04 | 20 Mar-23 May | 1978 | Nova Scotia-Cape Hatteras | #41 Yankee |
| Delaware II | 78-05 | 25 Jul-20 Aug | 1978 | Gulf of Maine to Cape Hatteras | #36 Yankee |
| Delaware II | 78-05 | 28 Jul-31 Jul | 1978 | Cape Hatteras to Cape Fear | #36 Yankee |
| Delaware II | 78-06 | 5 Sep-22 Nov | 1978 | Gulf of Maine to Cape Hatteras | #36 Yankee |
| Albatross IV | 79-03 | 21 Mar-12 May | 1979 | Gulf of Maine to Cape Hatteras | #41 Yankee |
| & Delaware II | 79-04 | | | | |
| Delaware II | 79-04 | 25 Mar-27 Mar | 1979 | Cape Hatteras to Cape Fear | #41 Yankee |

Table 2. Definition of Strata Sets.

| | So. New England | Mid-Atlantic | Hatteras | South of Hatteras |
|---|---|---|---|---|
| Inshore | 1-5,45,46,52,55 | 6-20 | 21-41 | 42-44, 50-64 |
| Offshore | 5,9 | 73,1 | 61,65,69 | 50,54,58 |
| Deep Offshore | 6,7,8,10,11,12 | 2-4, 74-76 | 62-64, 66-68, 70-72 | 51-53, 55-57, 59,60,77 |

Figures 1-3. Strata definitions. Heavy line separates inshore and offshore strata.

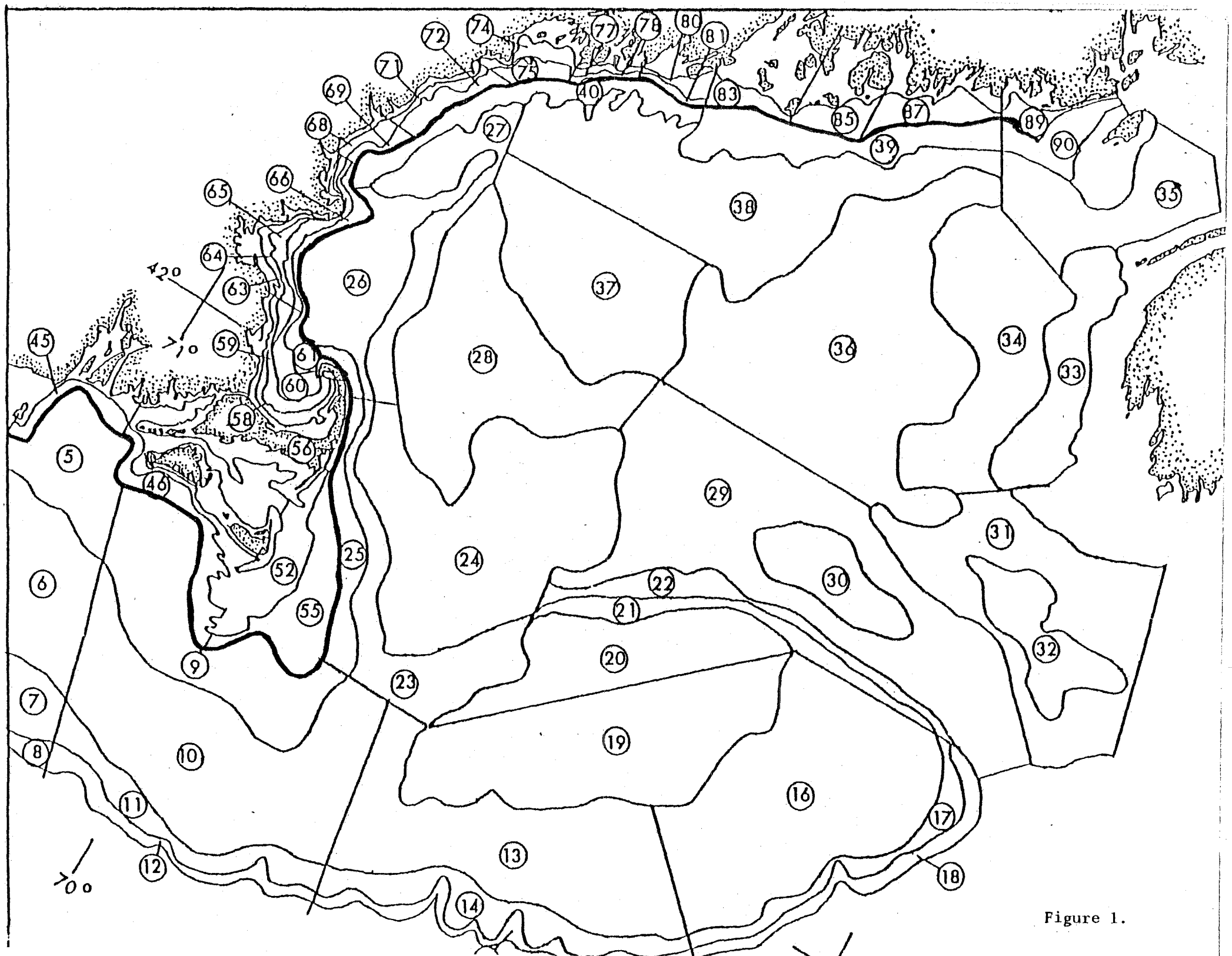


Figure 1.

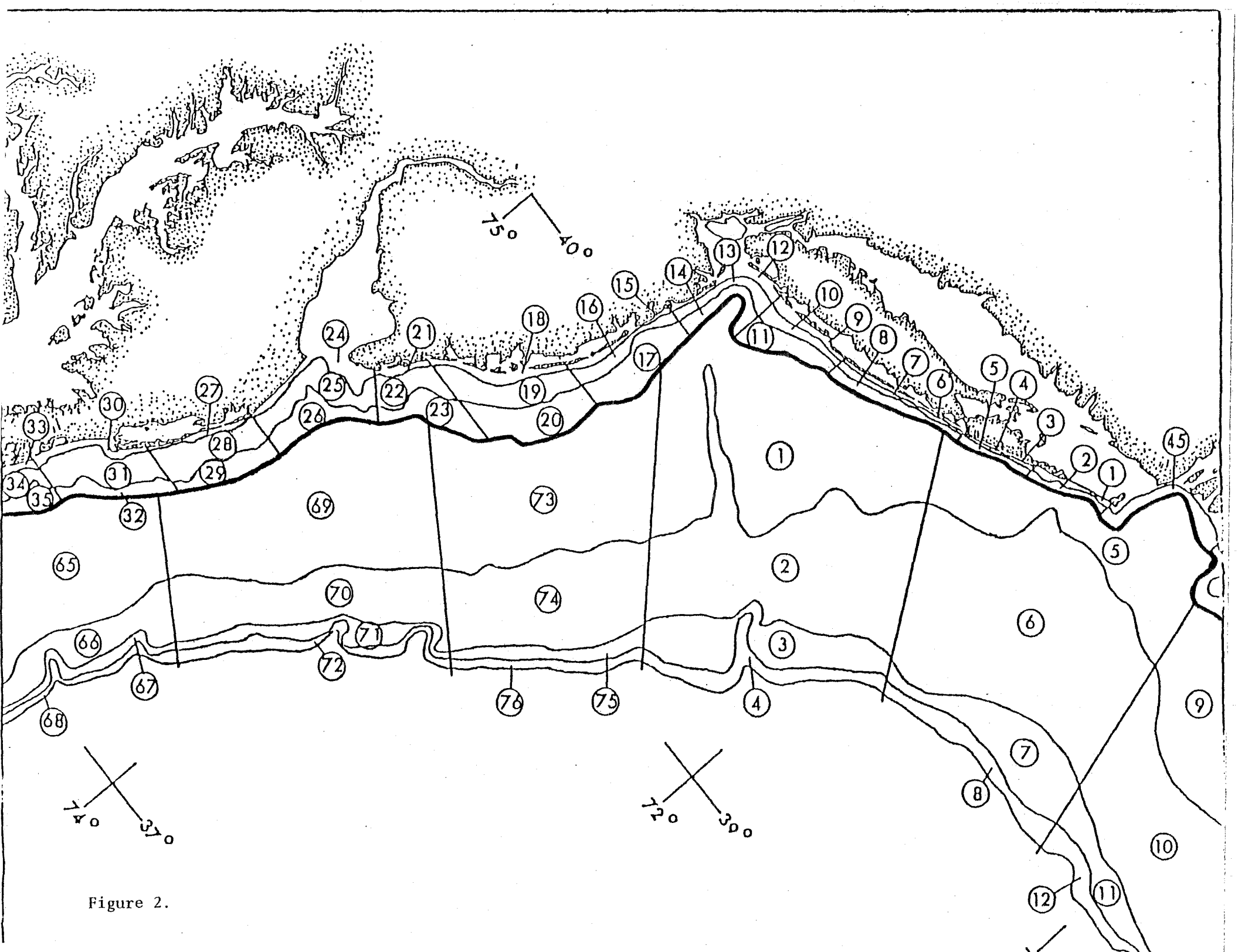


Figure 2.

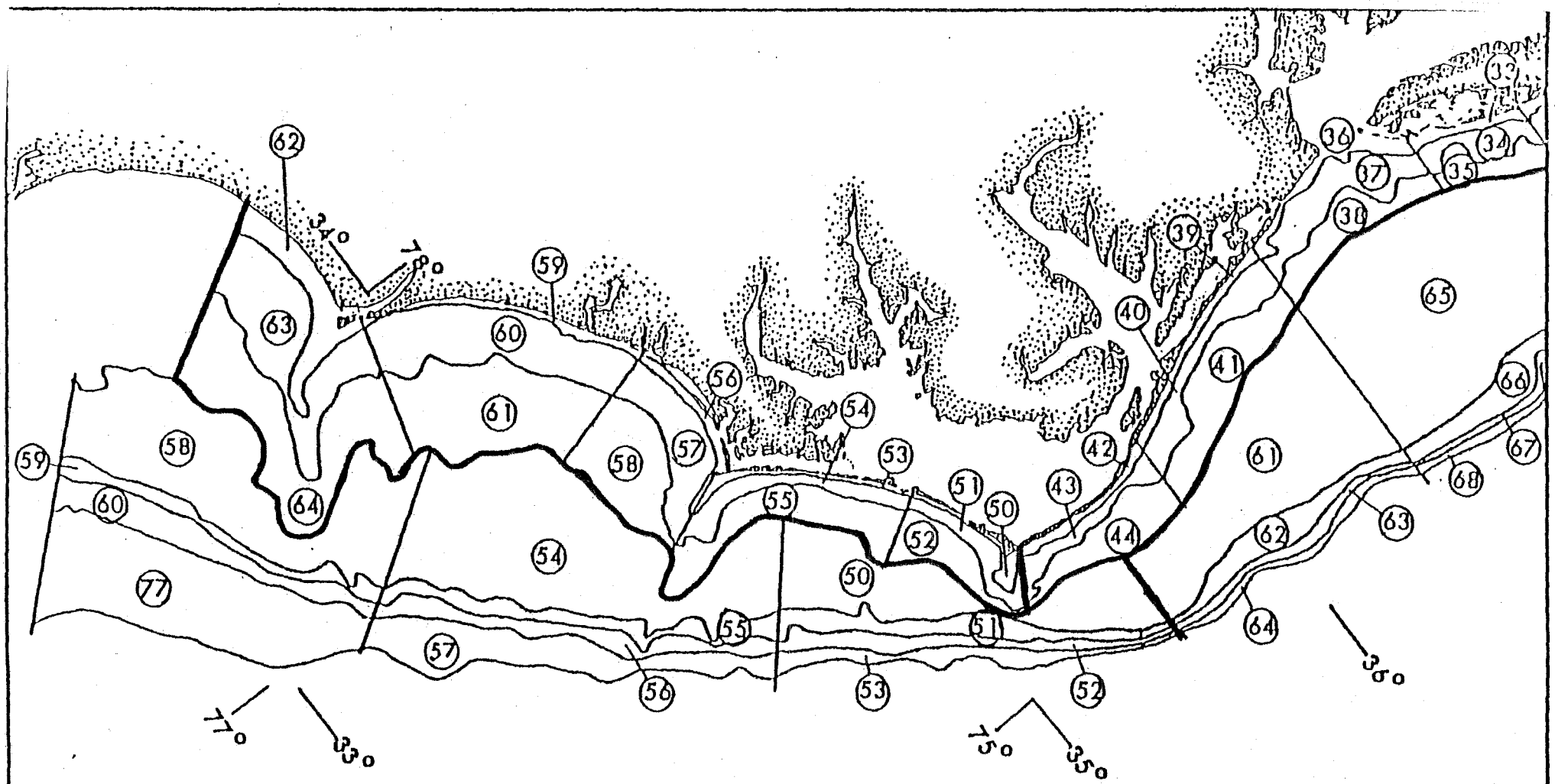
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Figure 3.

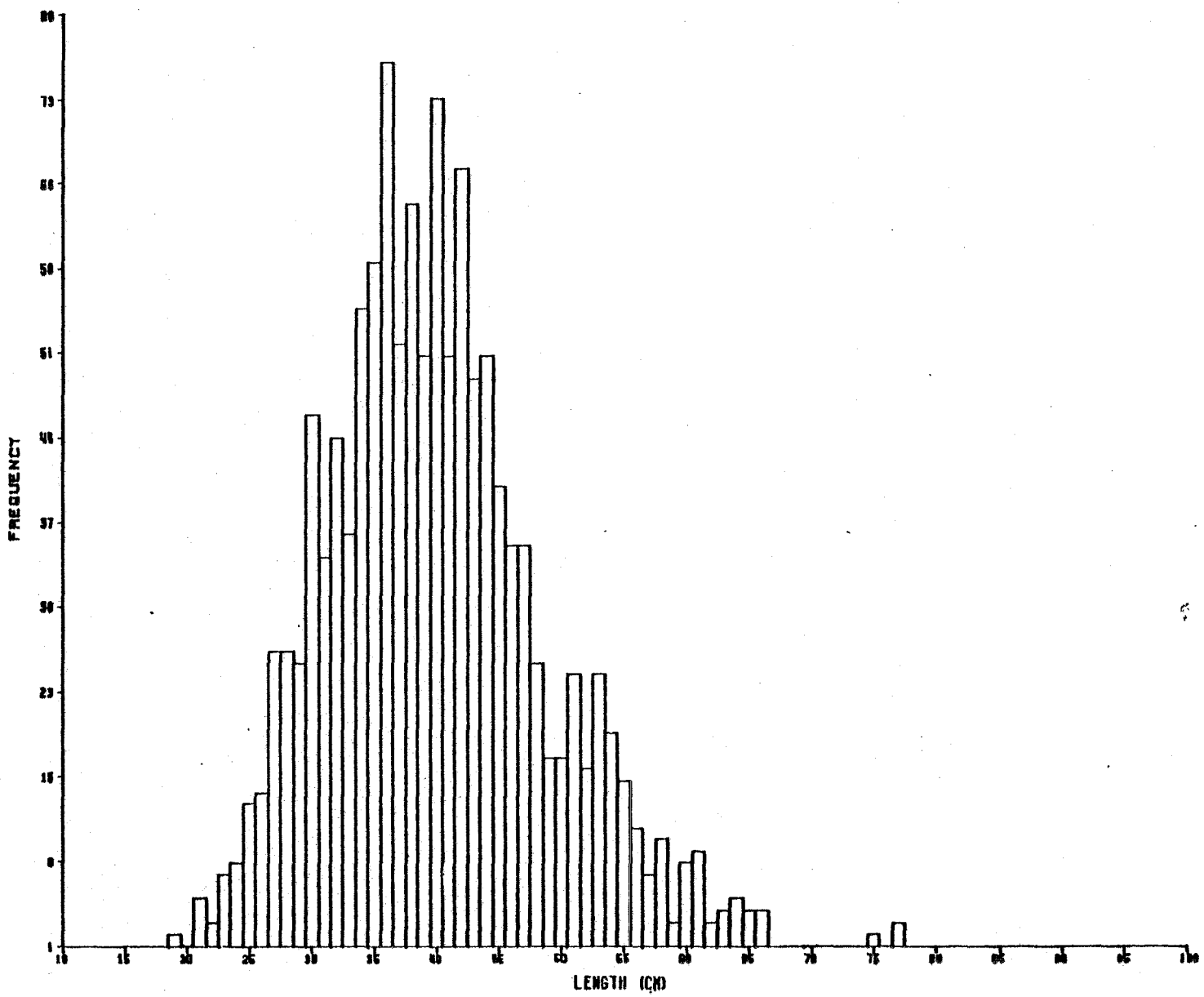


Figure 4. Length frequency summarized over all offshore strata north of Cape Hatteras during spring.

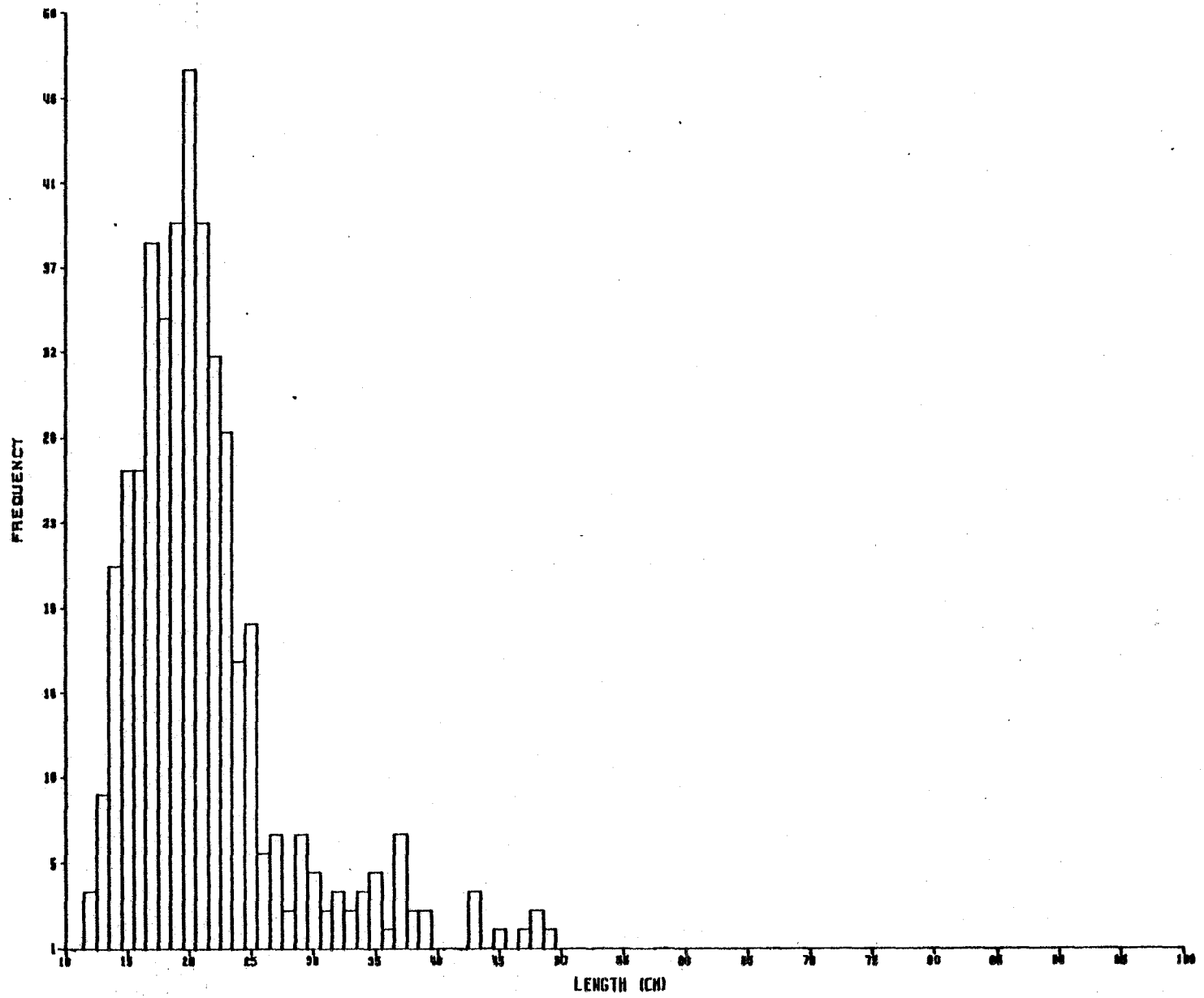


Figure 5. Length frequency summarized over all inshore strata north of Cape Hatteras during spring.

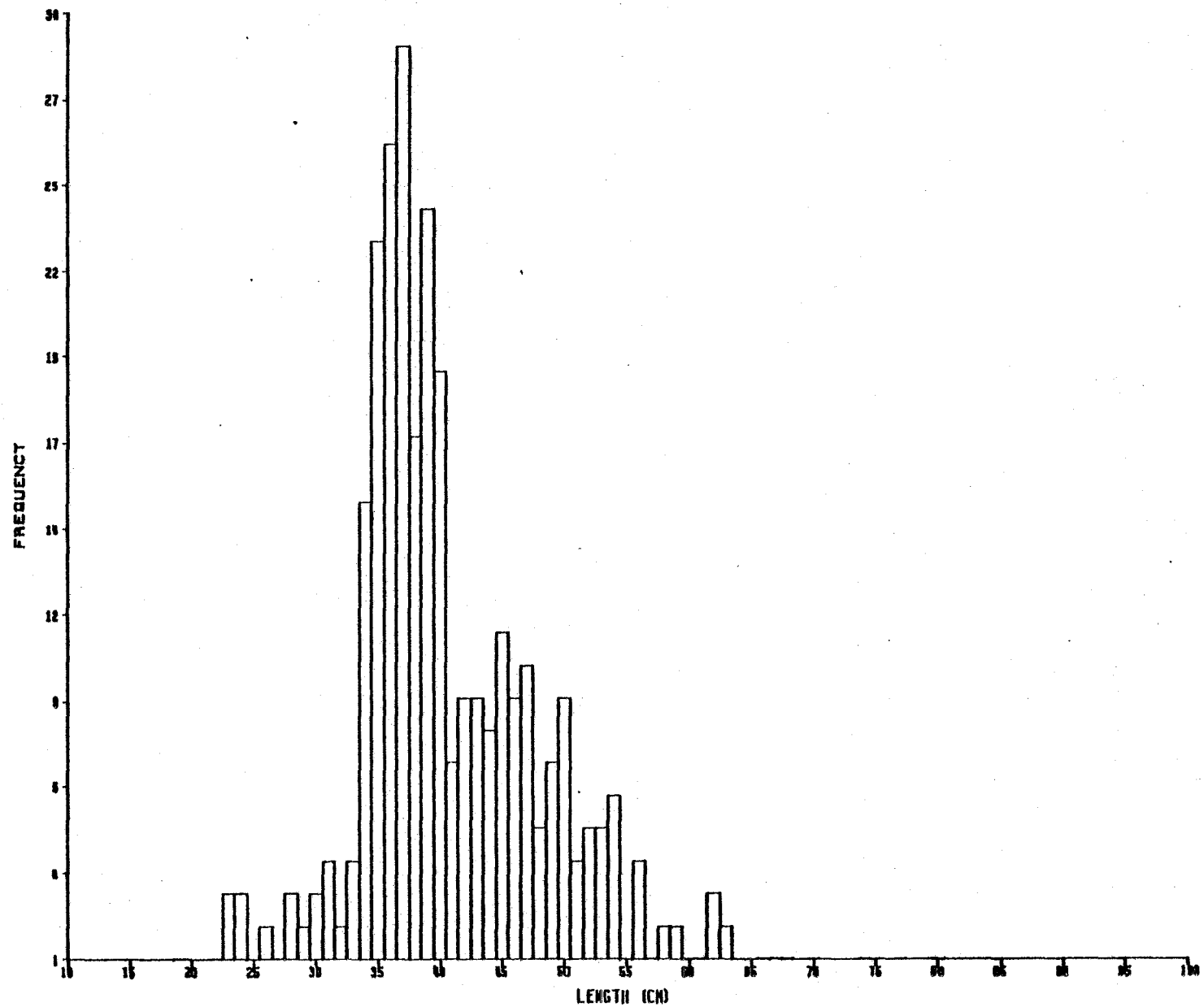


Figure 6. Length frequency summarized over all offshore strata north of Cape Hatteras during summer.

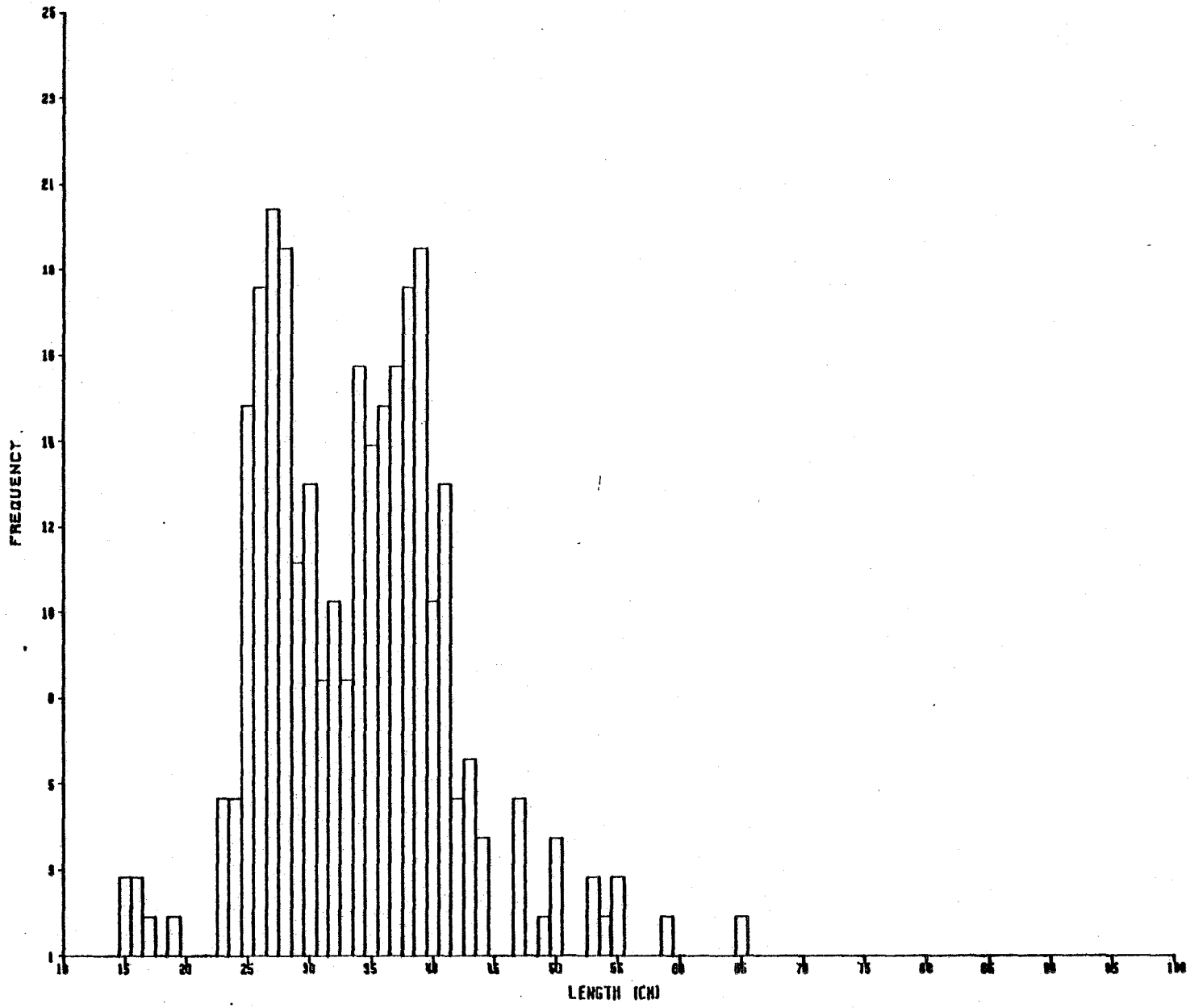


Figure 7. Length frequency summarized over all inshore strata north of Cape Hatteras during summer.

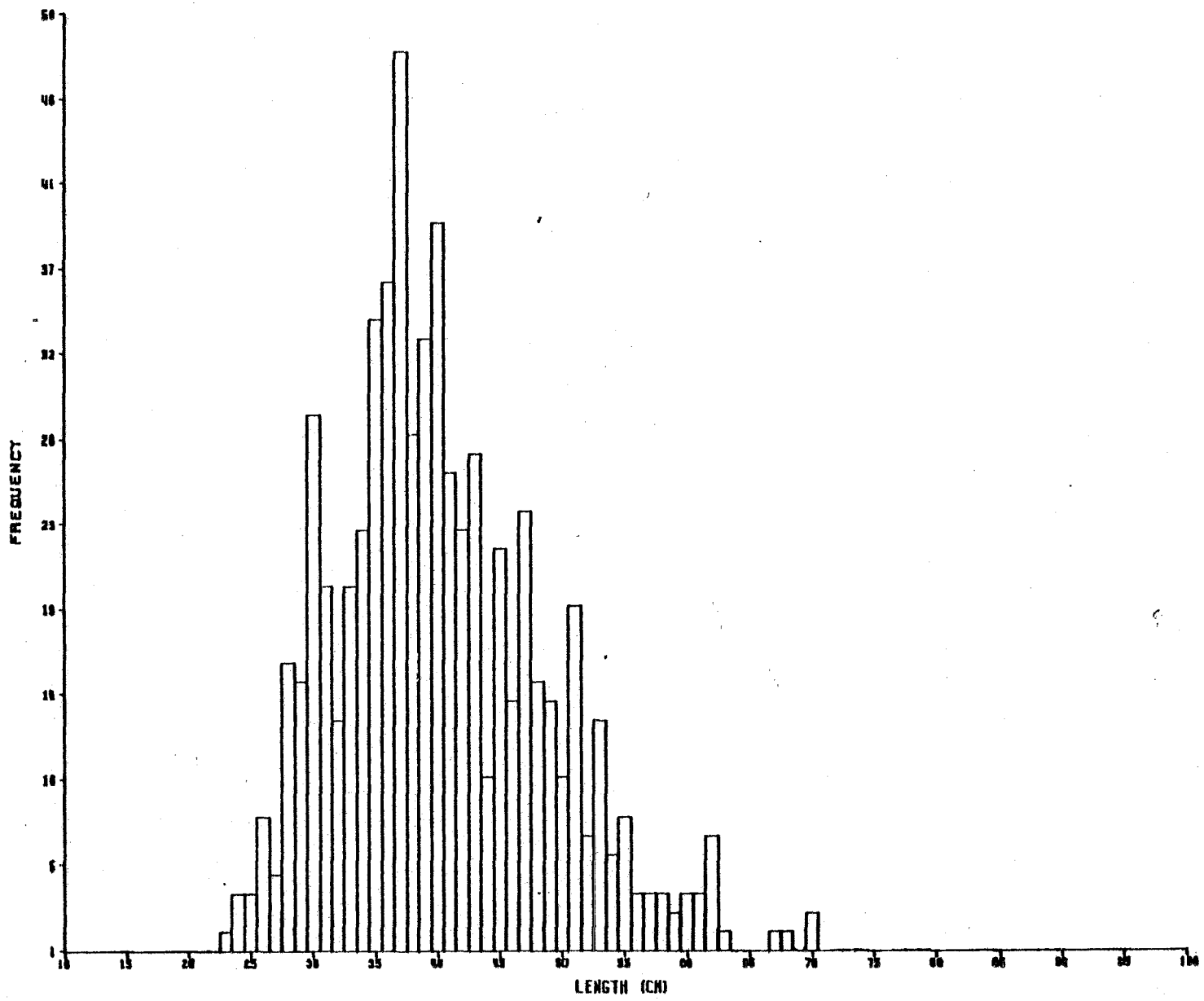


Figure 8. Length frequency summarized over all offshore strata north of Cape Hatteras during autumn.

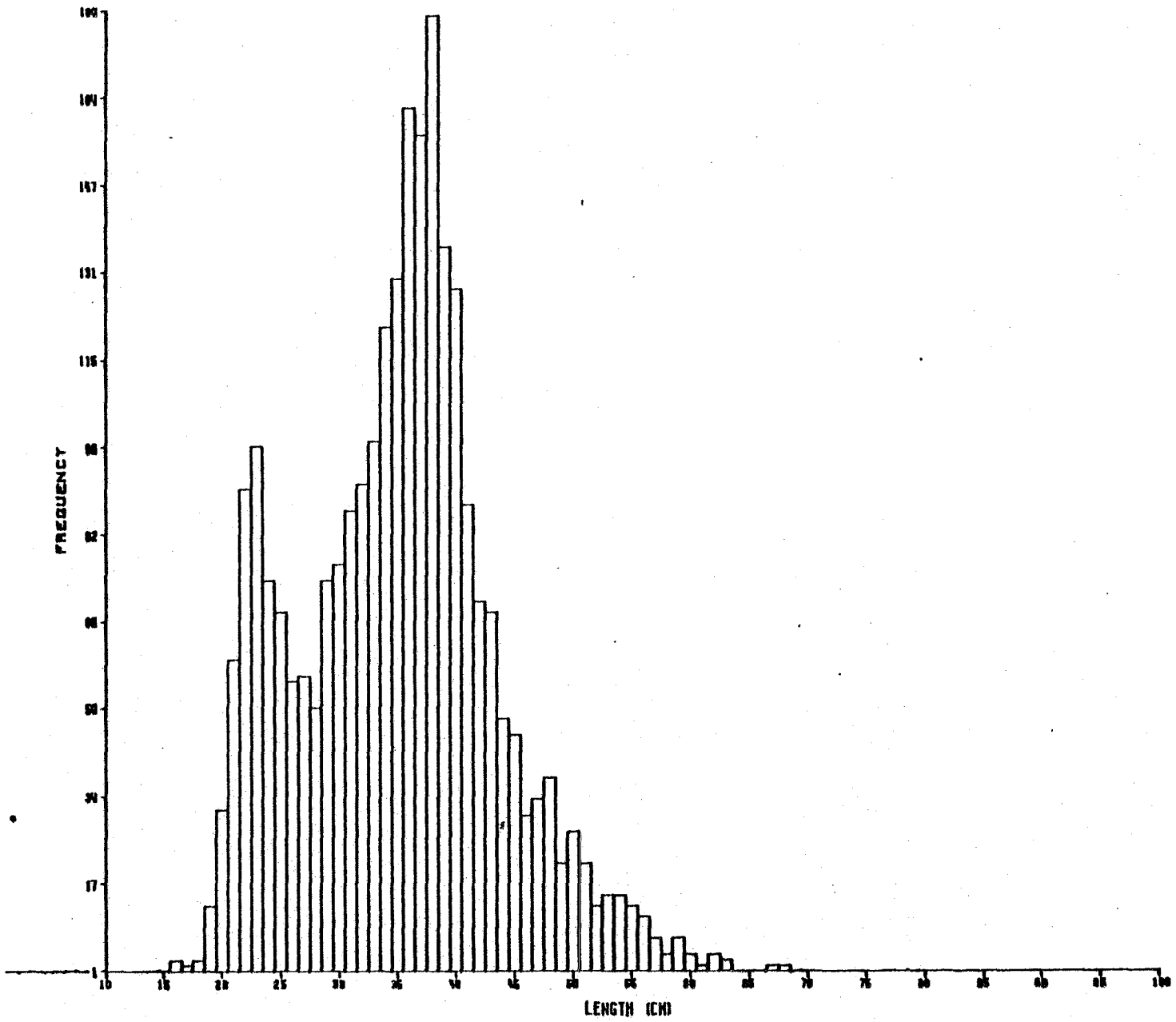


Figure 9. Length frequency summarized over all inshore strata north of Cape Hatteras during autumn.

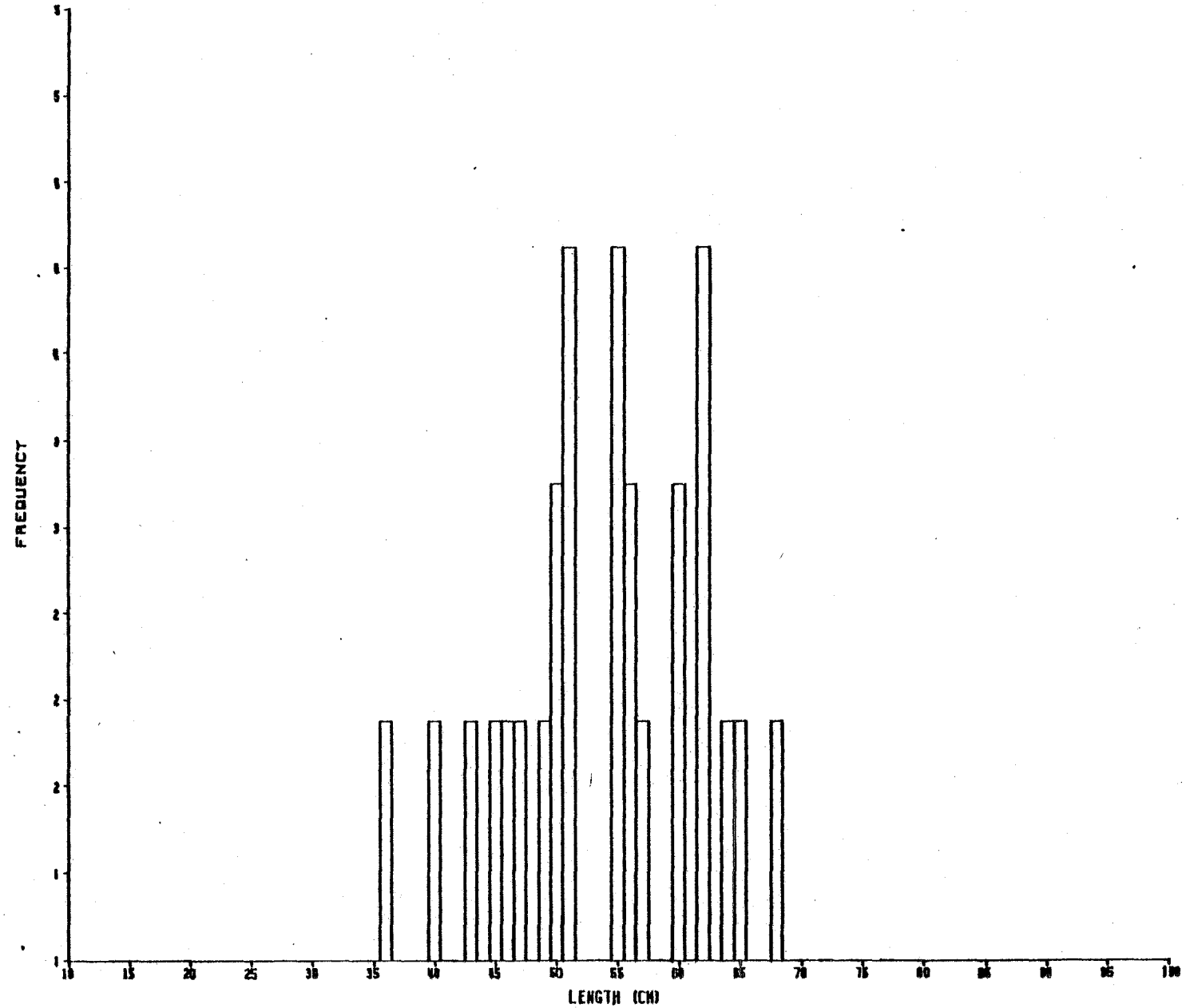


Figure 10. Length frequency summarized over all offshore strata north of Cape Hatteras during winter.

Figure 11. Mean catch per tow (kg/tow) during spring

Figure 12. Mean catch per tow (kg/tow) during spring

Figure 13. Mean catch per tow (kg/tow) during spring

Figure 14. Mean catch per tow (kg/tow) during summer

Figure 15. Mean catch per tow (kg/tow) during summer

Figure 16. Mean catch per tow (kg/tow) during summer

Figure 17. Mean catch per tow (kg/tow) during autumn

Figure 18. Mean catch per tow (kg/tow) during autumn

Figure 19. Mean catch per tow (kg/tow) during autumn

Figure 20. Mean catch per tow (kg/tow) during winter

Figure 21. Mean catch per tow (kg/tow) during winter

Figure 22. Mean catch per tow (kg/tow) during winter

Figure 23. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during spring

Figure 24. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during spring

Figure 25. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during spring.

Figure 26. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during summer

Figure 27. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during summer

Figure 28. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during summer

Figure 29. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during autumn

Figure 30. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during autumn

Figure 31. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during autumn

Figure 32. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during winter

Figure 33. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during winter

Figure 34. Mean catch per tow in numbers of prerecruits (less than 30 cm in length) during winter

Figure 11. kg/tow spring

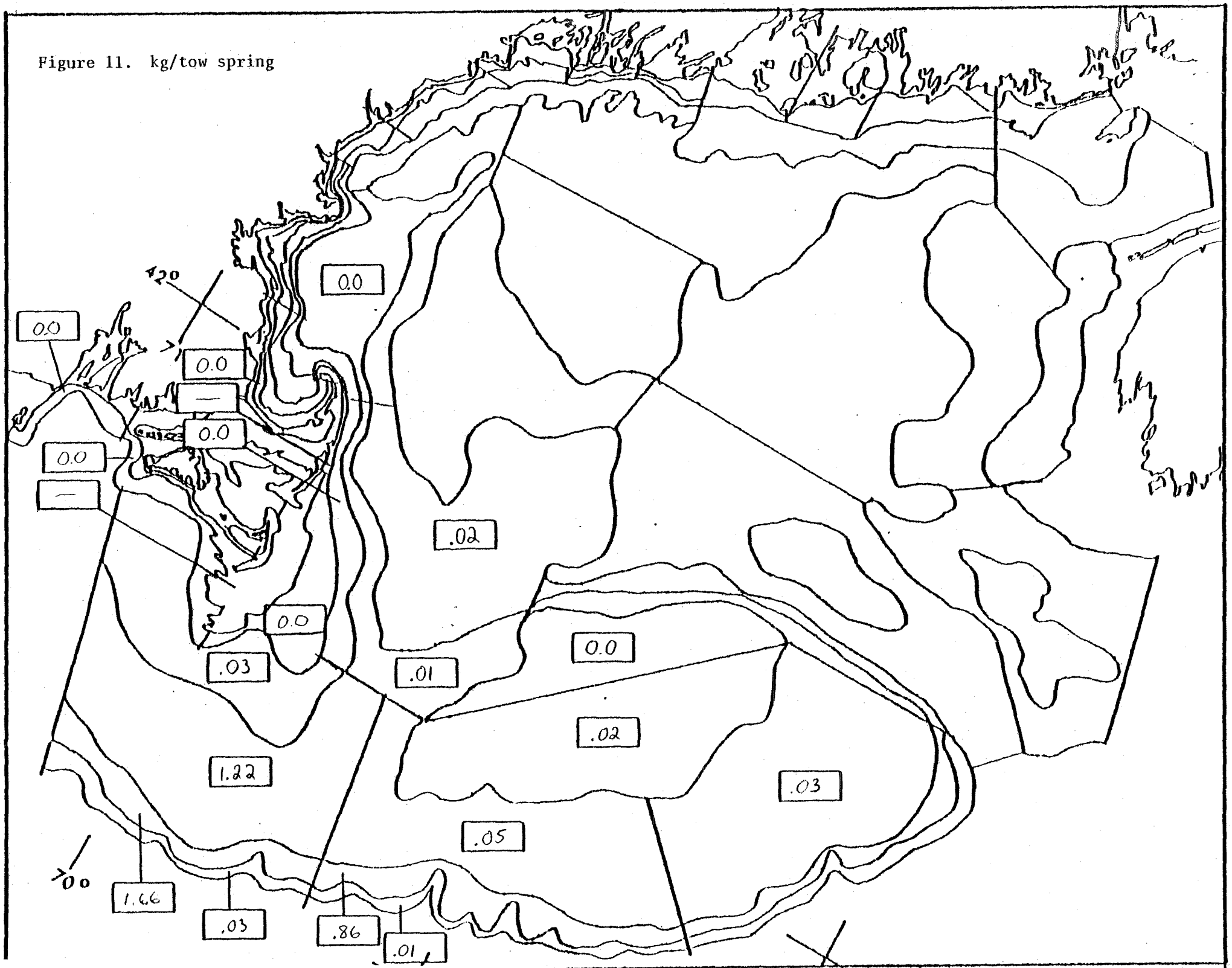

Figure 12. kg/tow spring

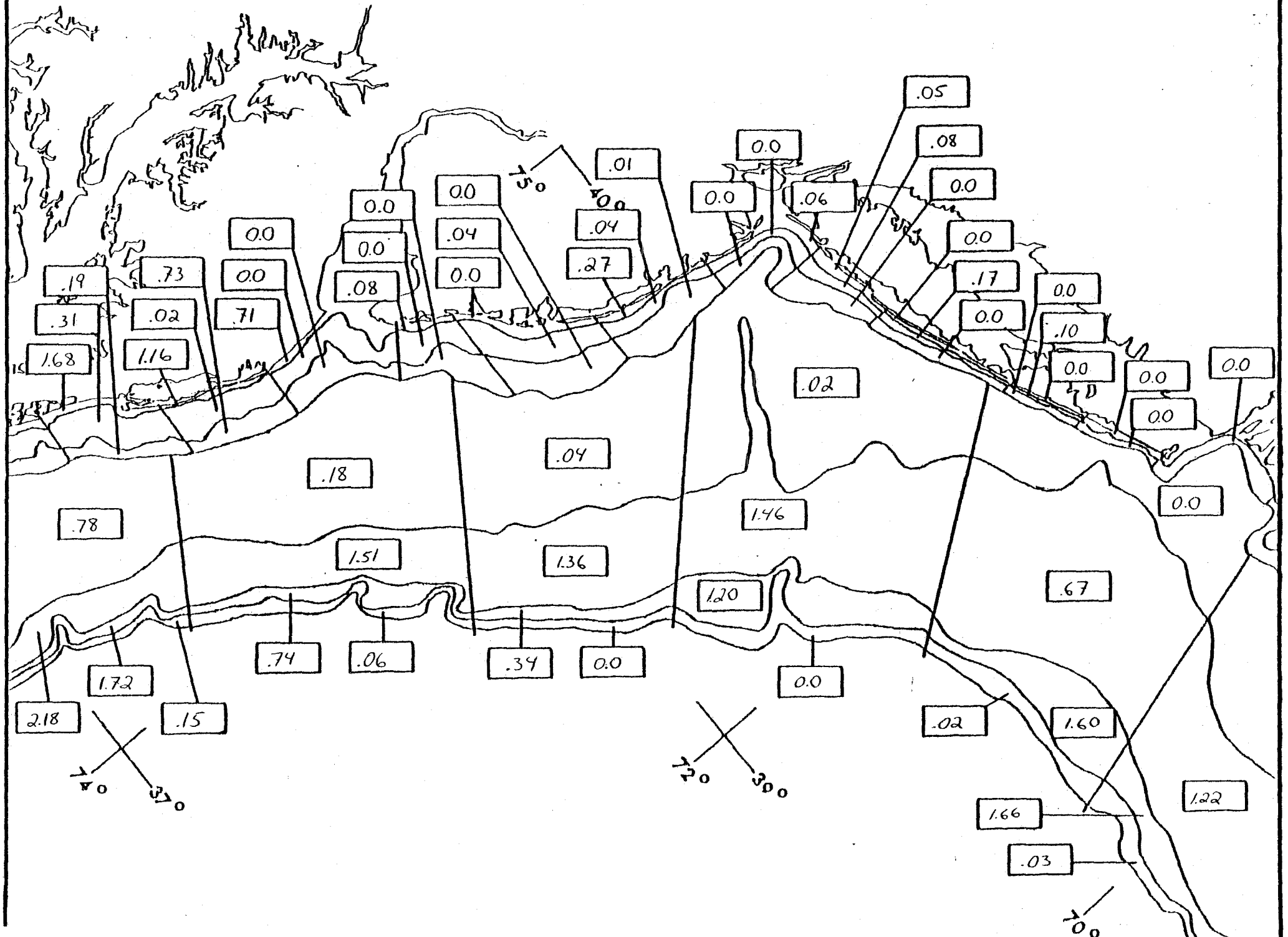

Figure 13. kg/tow spring

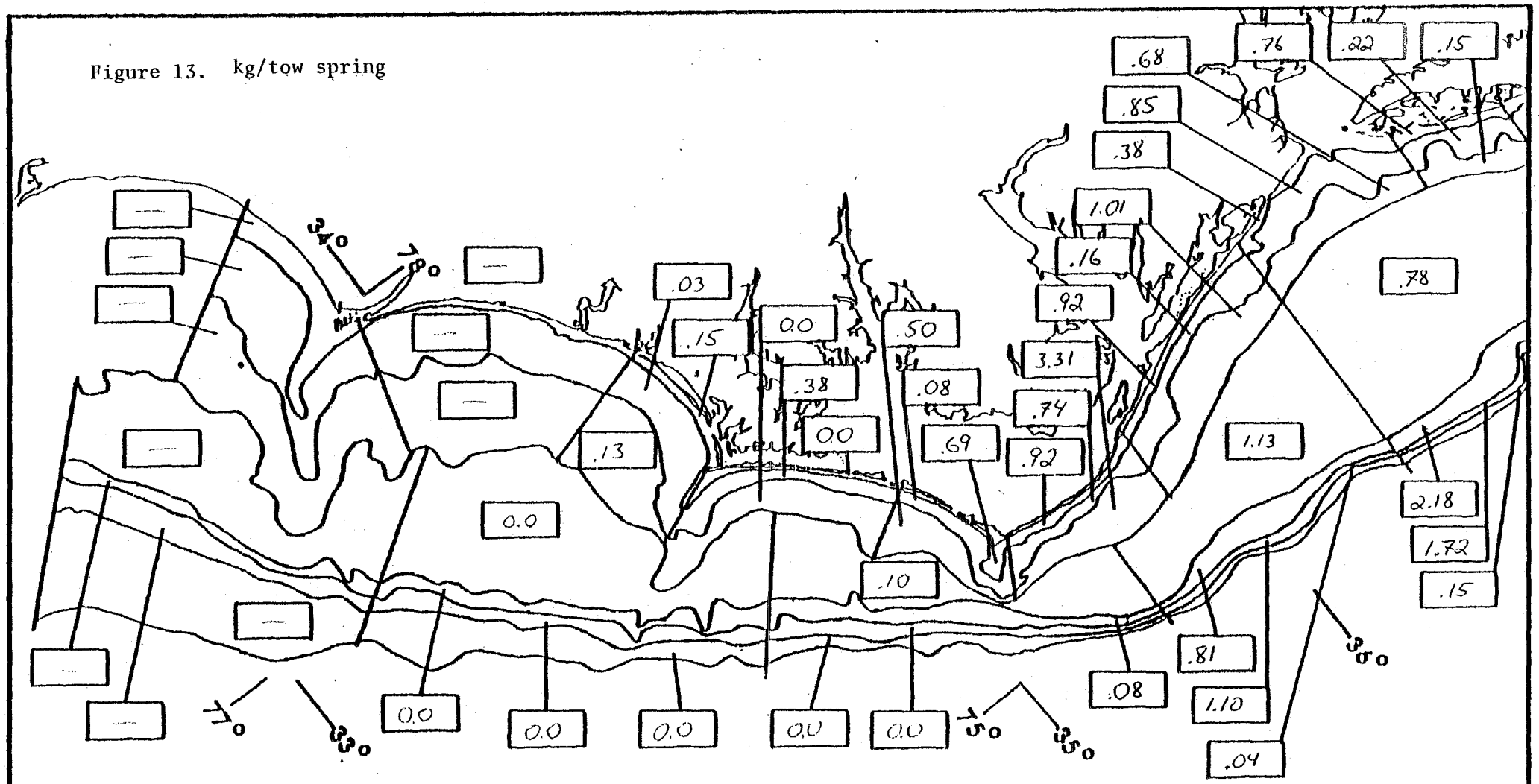

Figure 14. kg/tow summer

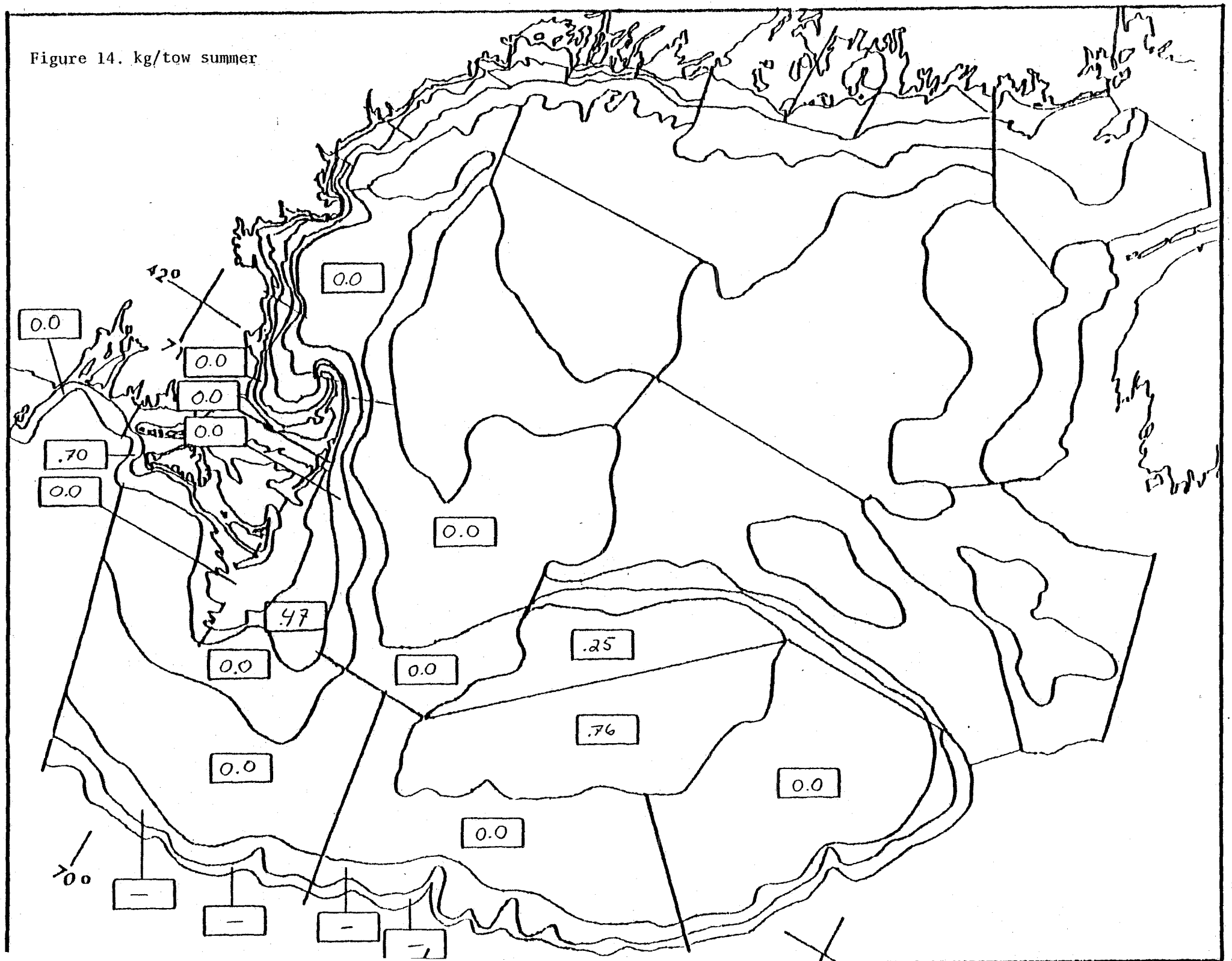

Figure 15. kg/tow summer

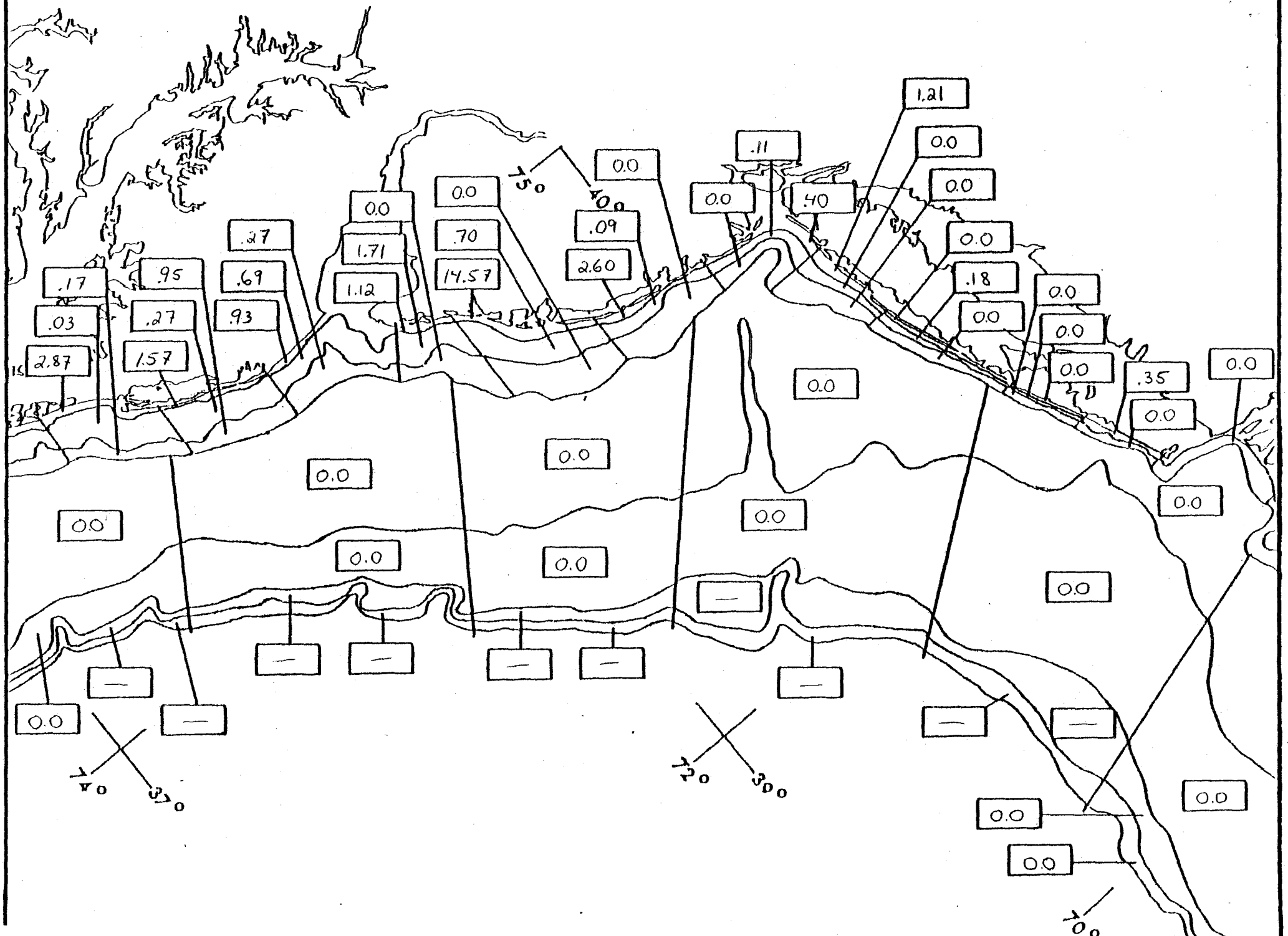
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Figure 16. kg/tow summer

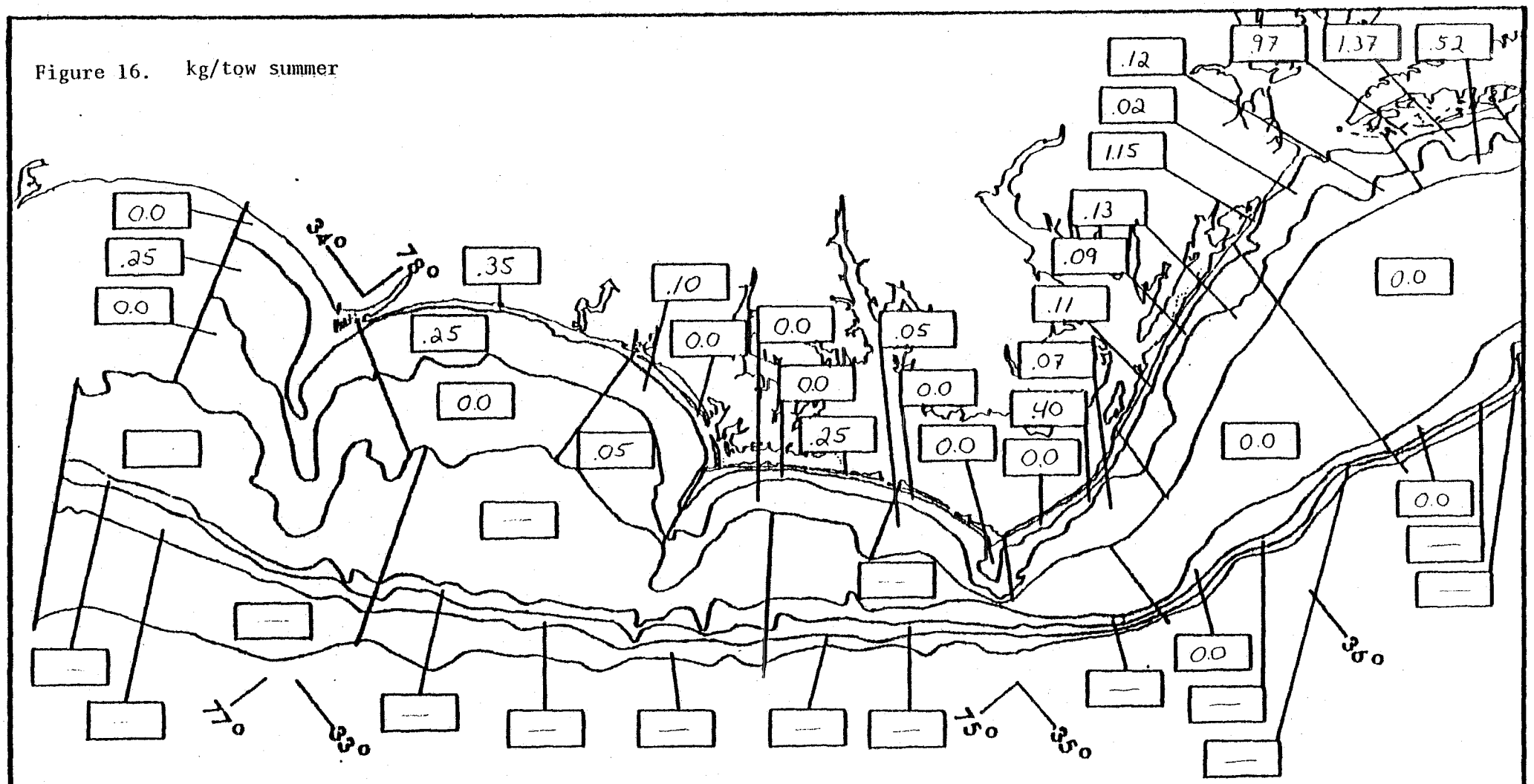


Figure 17. kg/tow autumn

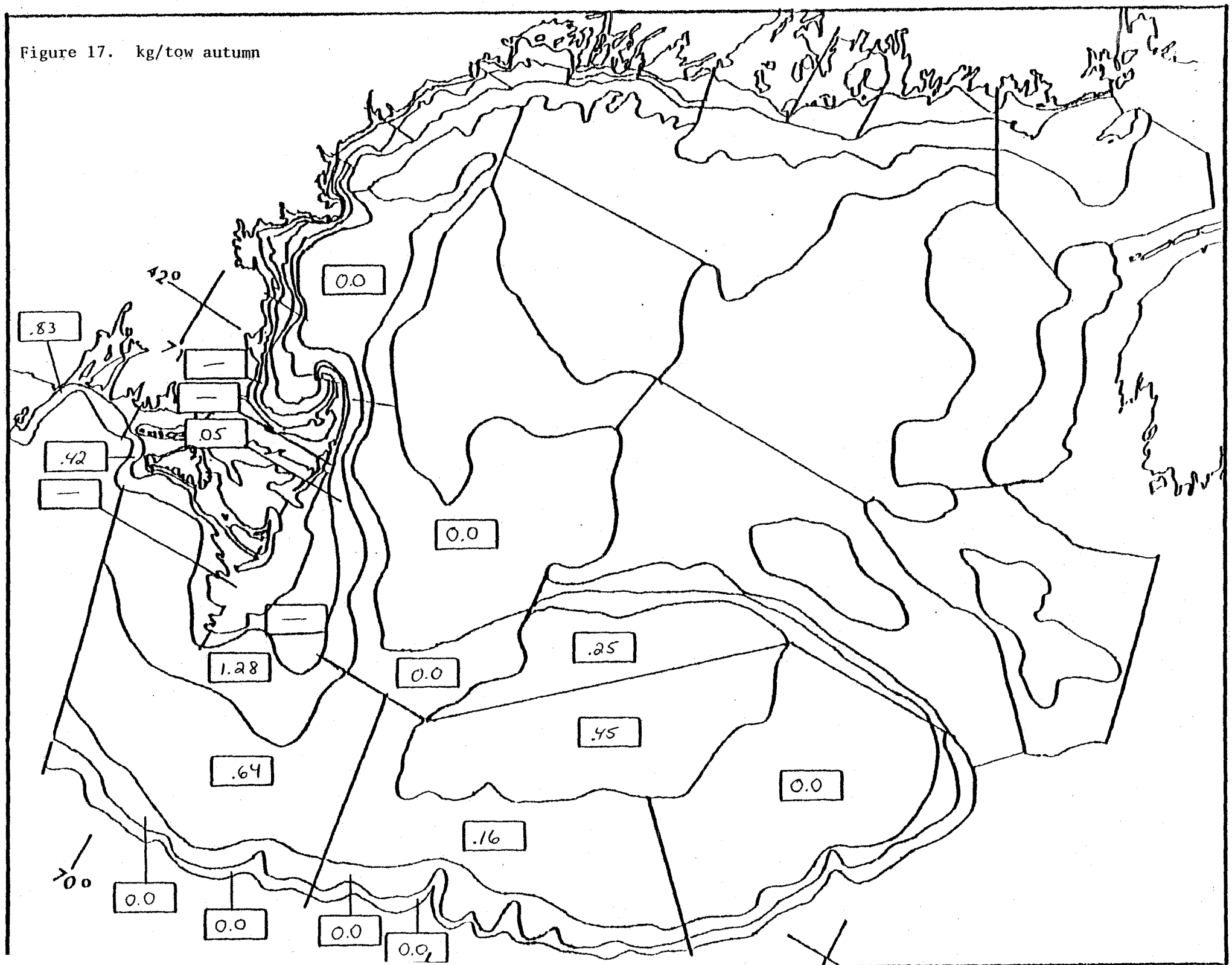


Figure 18. kg/tow autumn

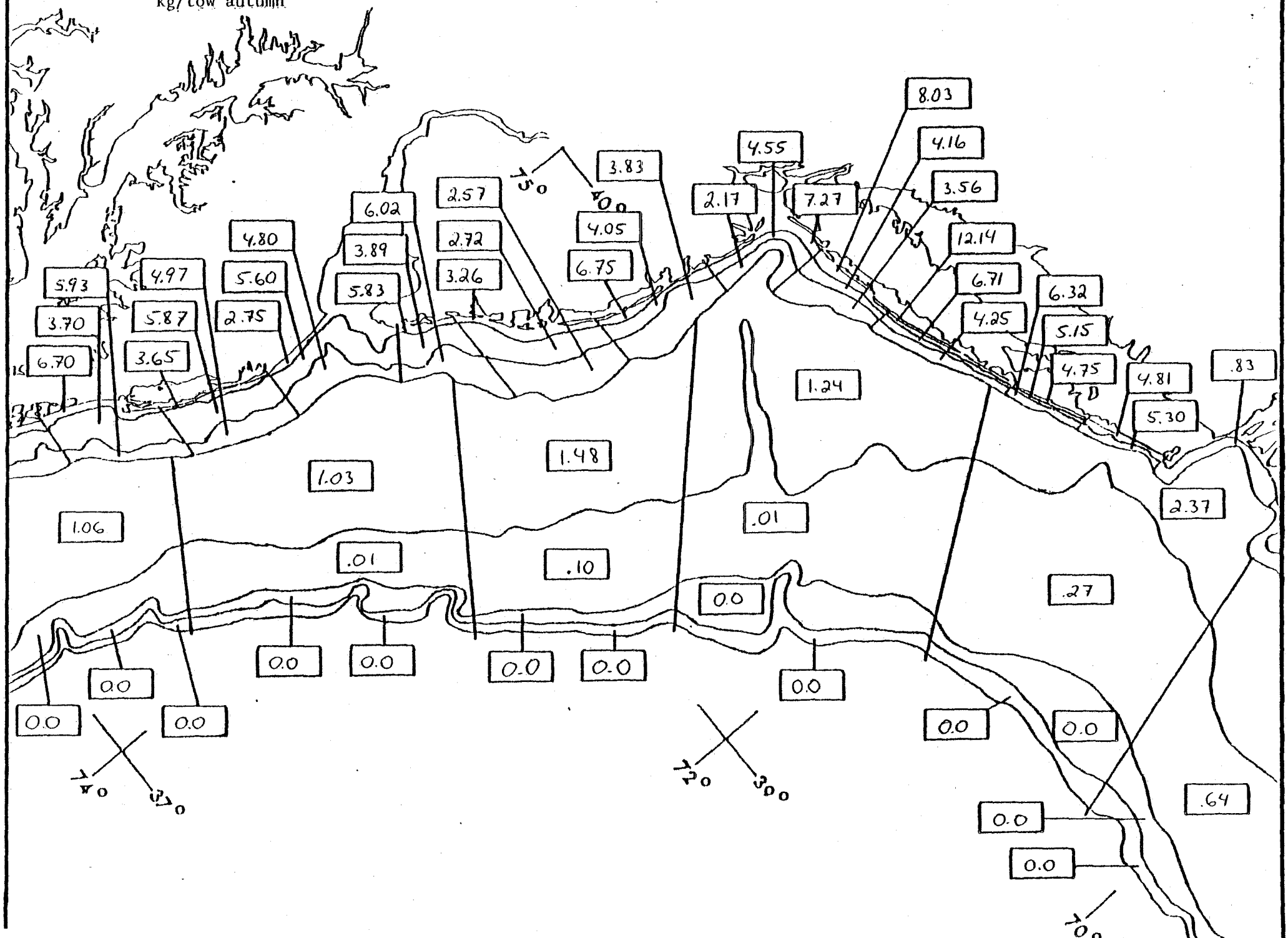


Figure 19. kg/tow autumn

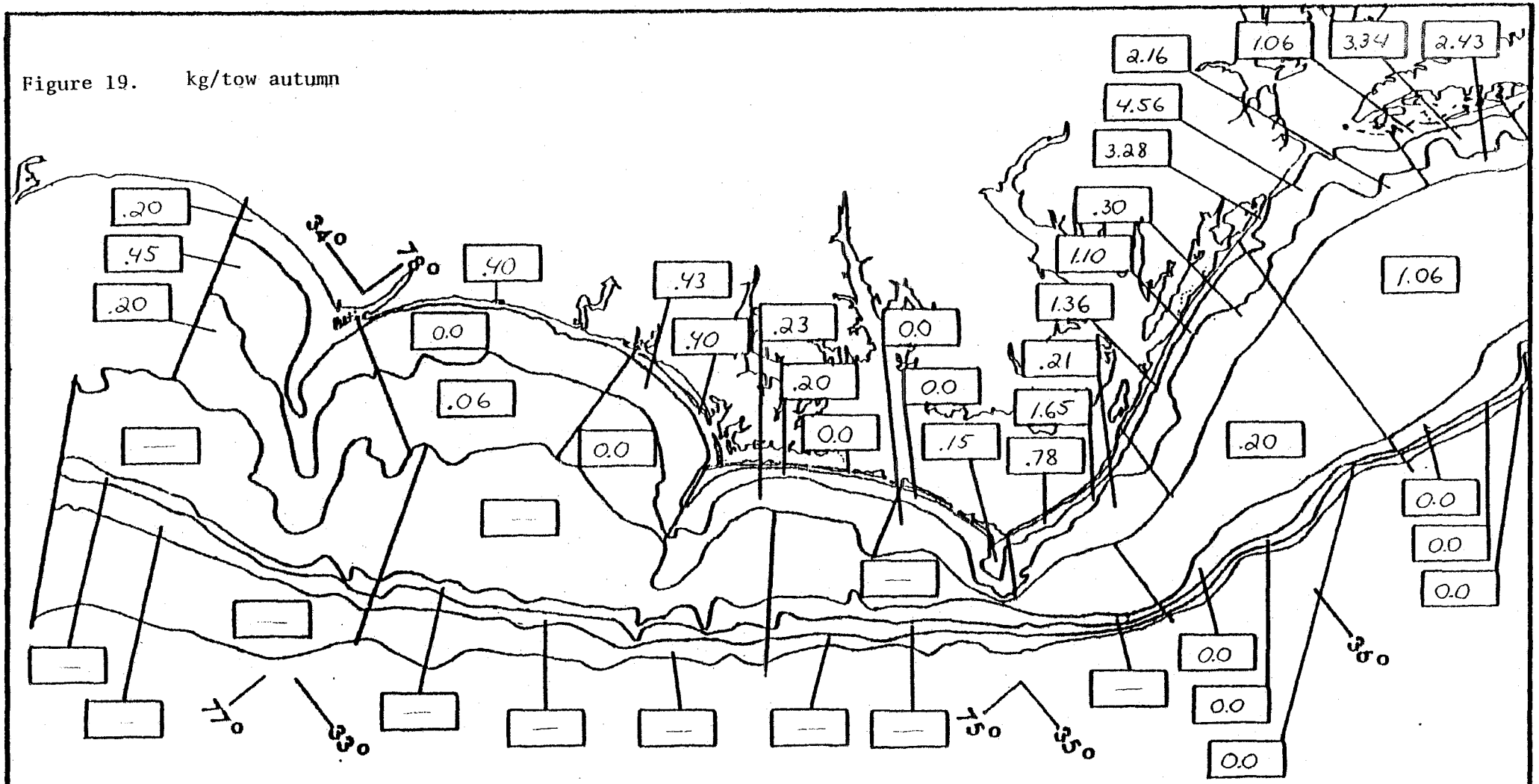


Figure 20. kg/tow winter

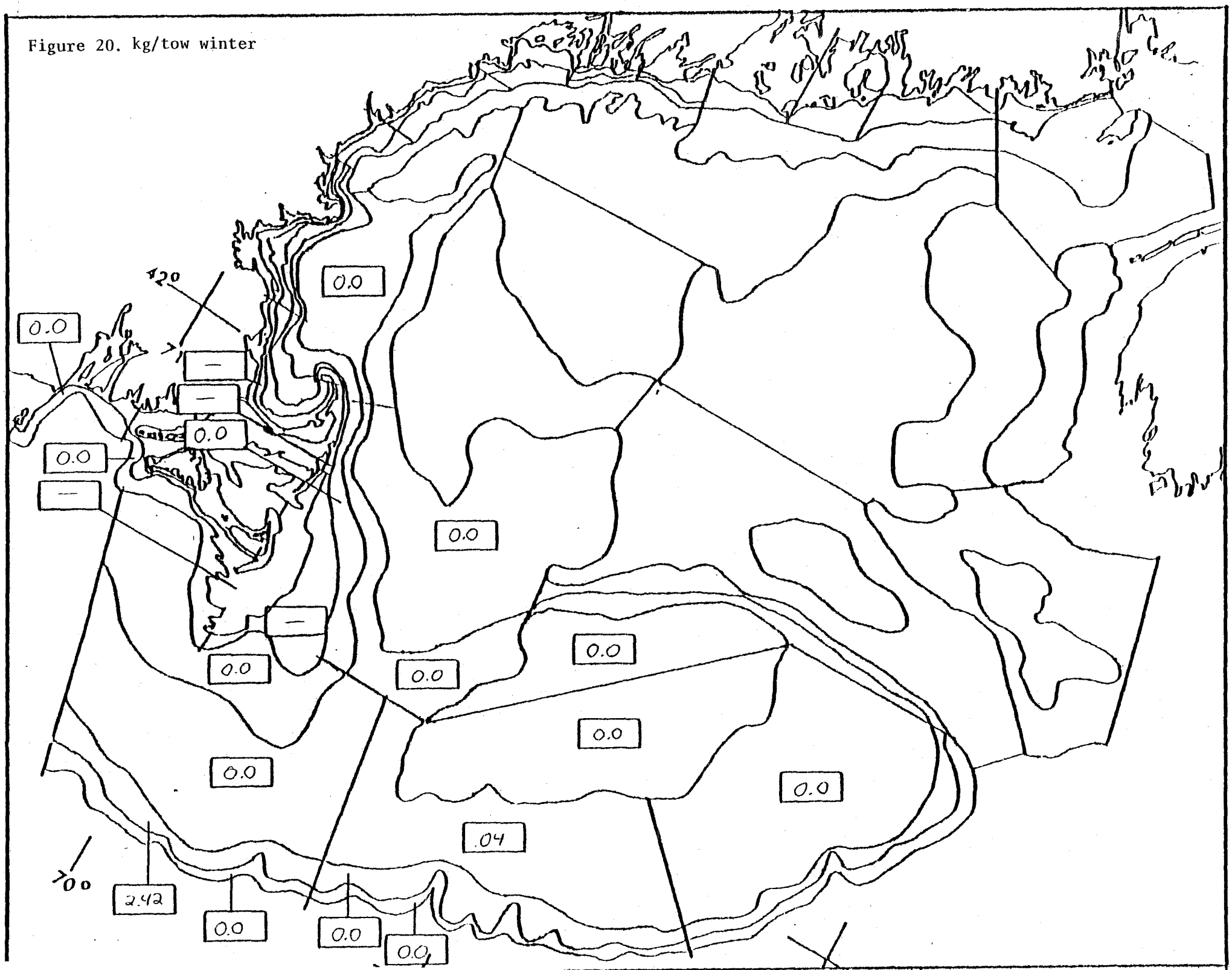


Figure 21. kg/tow winter

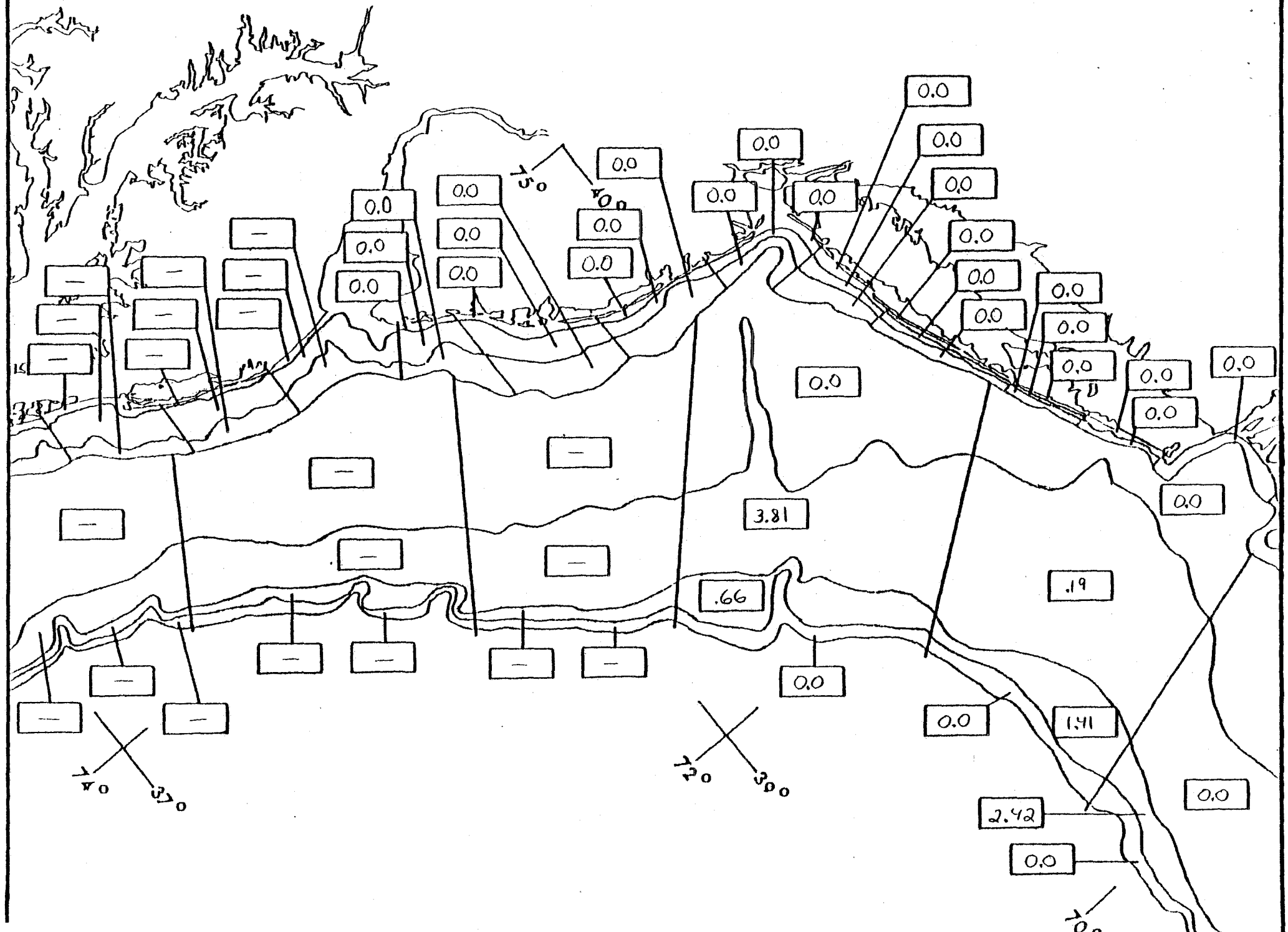


Figure 22. kg/tow winter

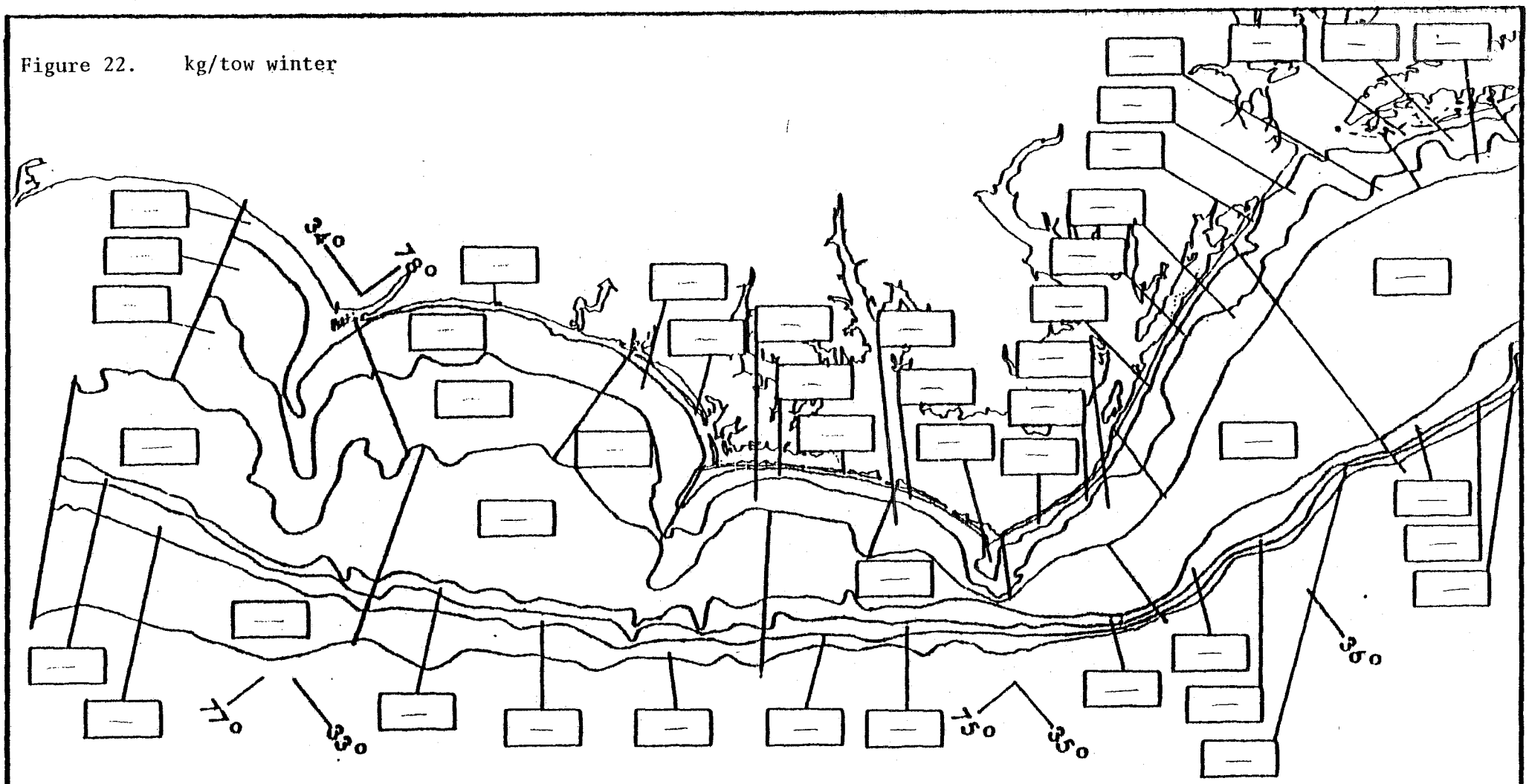
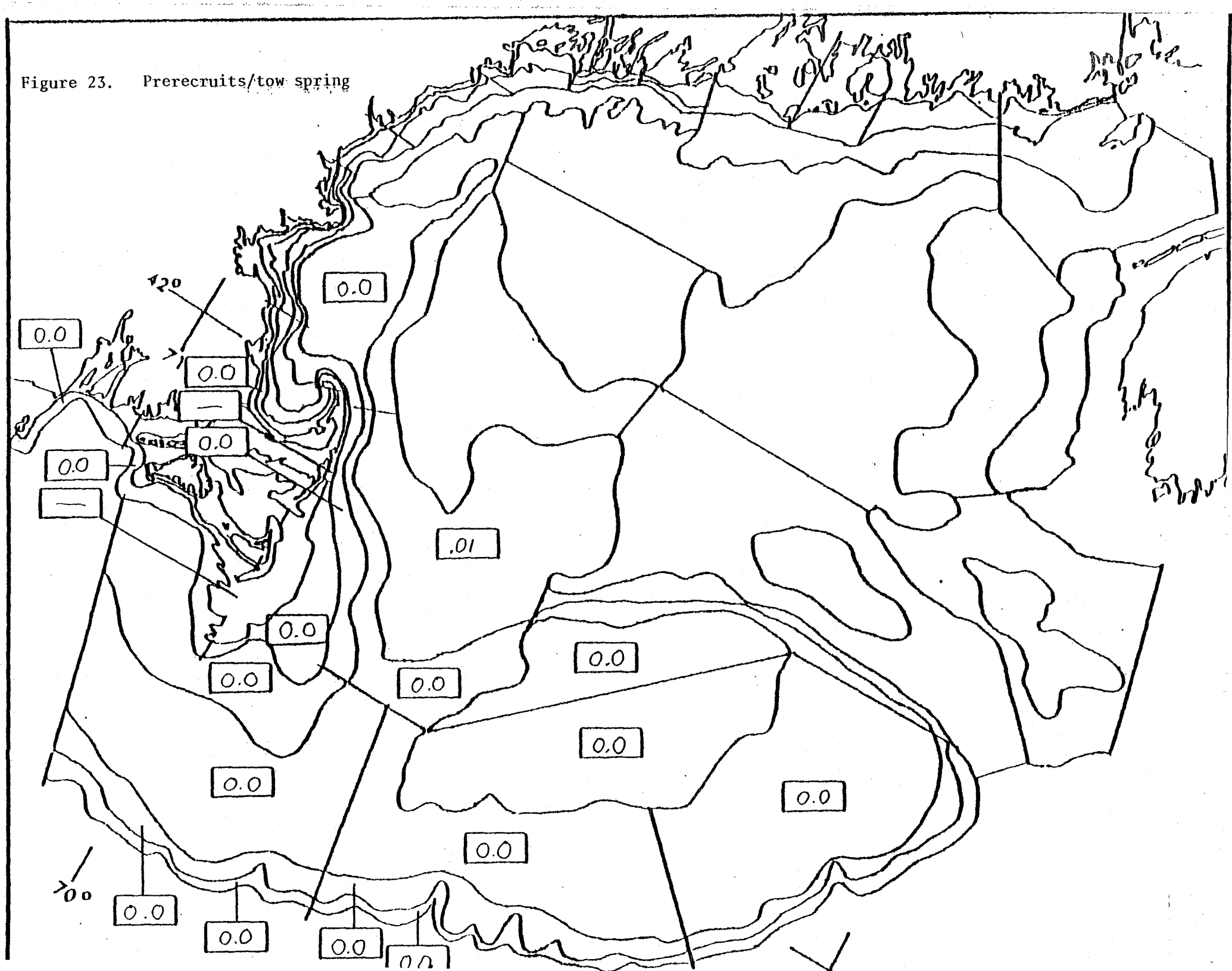


Figure 23. Prerecruits/tow spring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0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

Figure 24.

prerecruits/tow spring

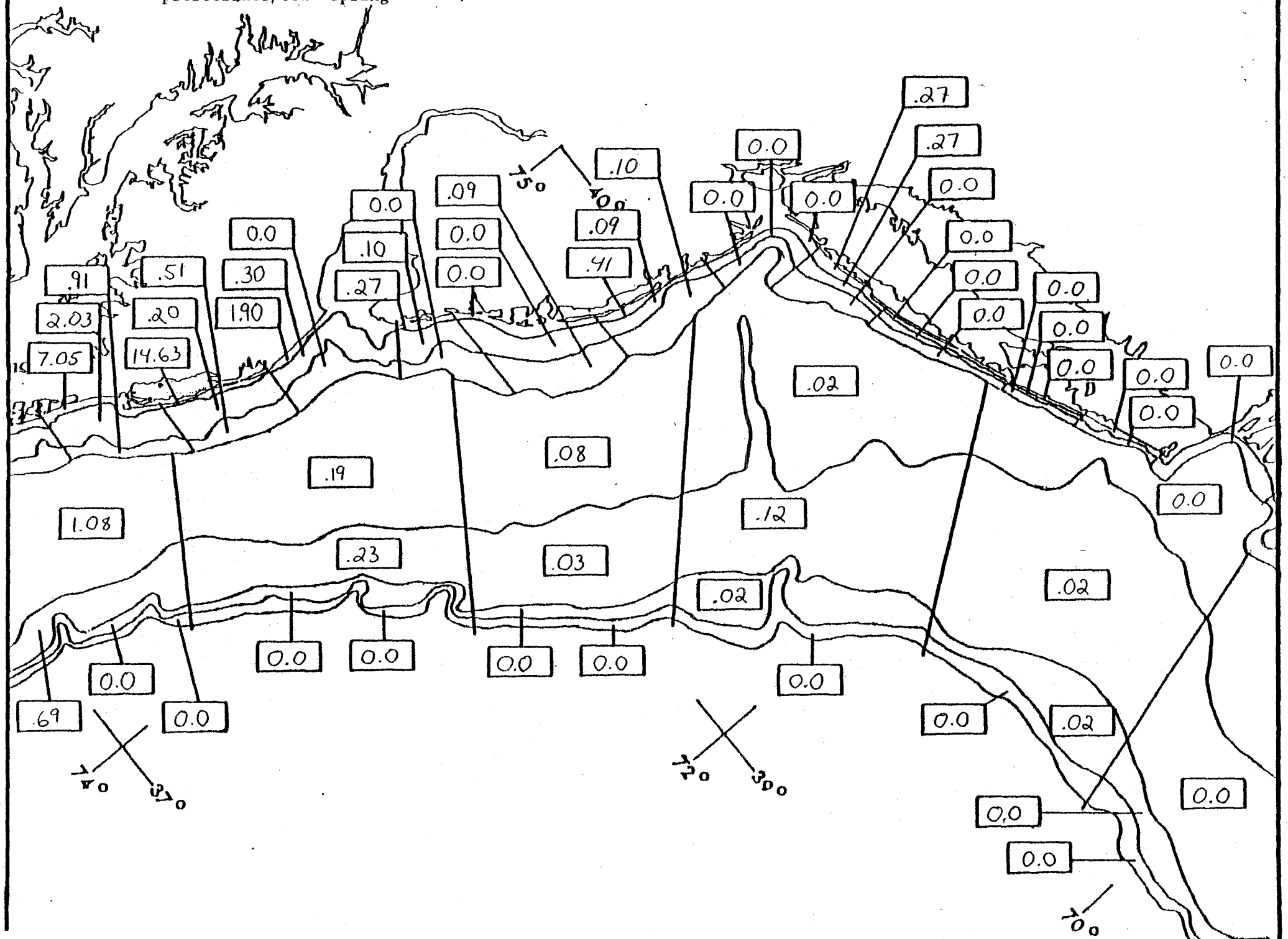


Figure 25. prerecruits/tow spring

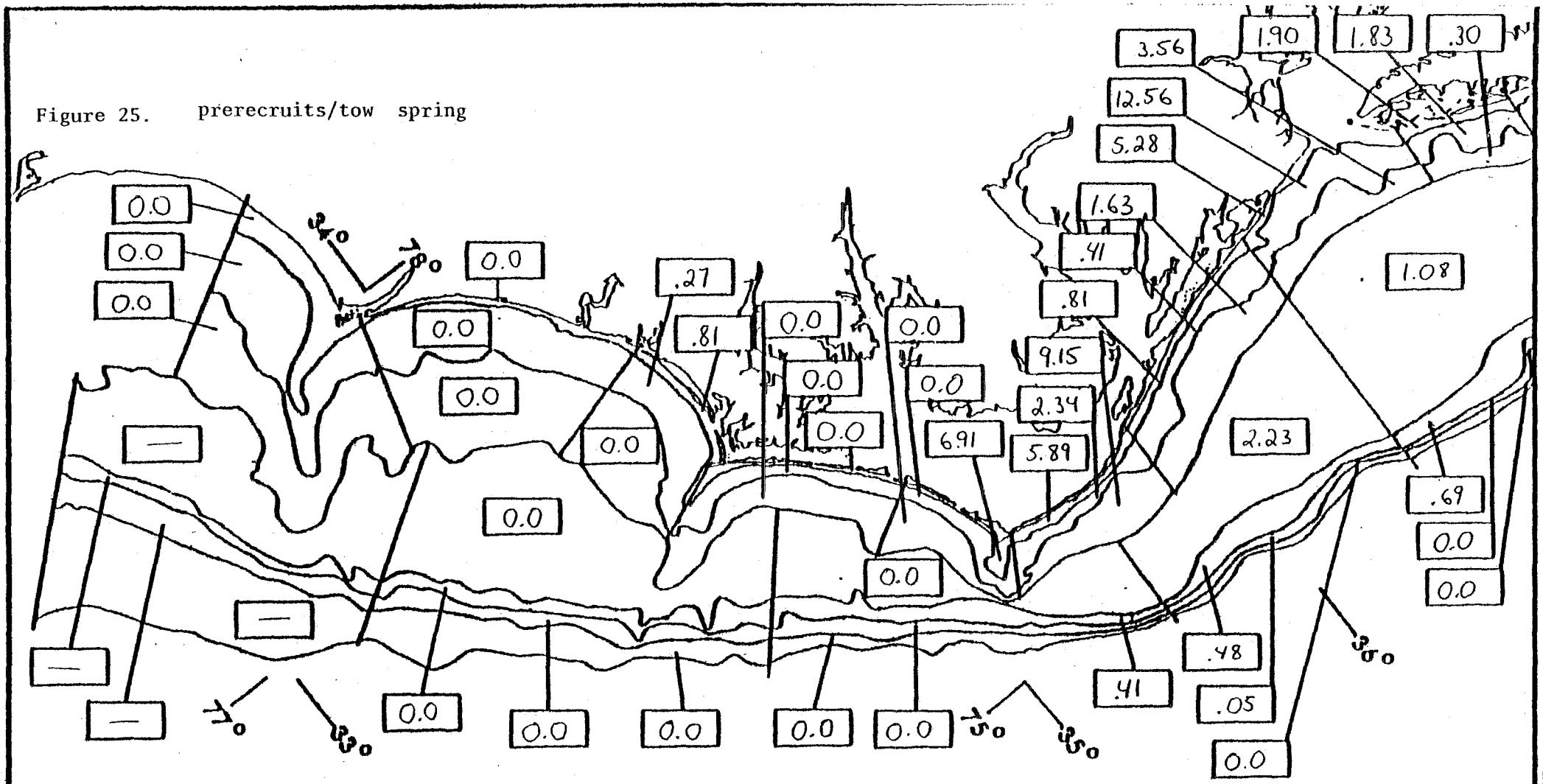


Figure 26. prerecruits/tow summer

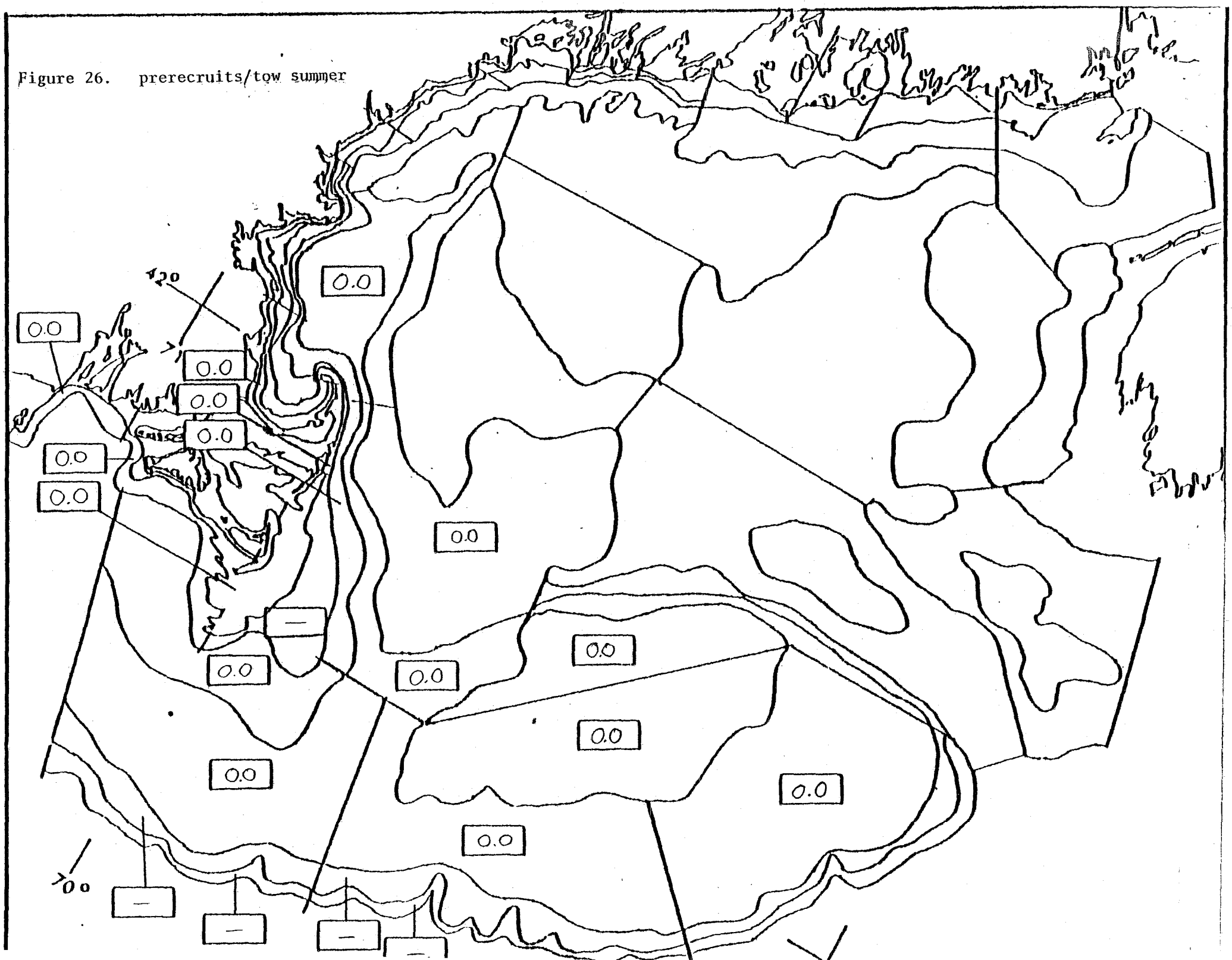

0.0
0.0
0.0

Figure 27. prerecruits/tow summer

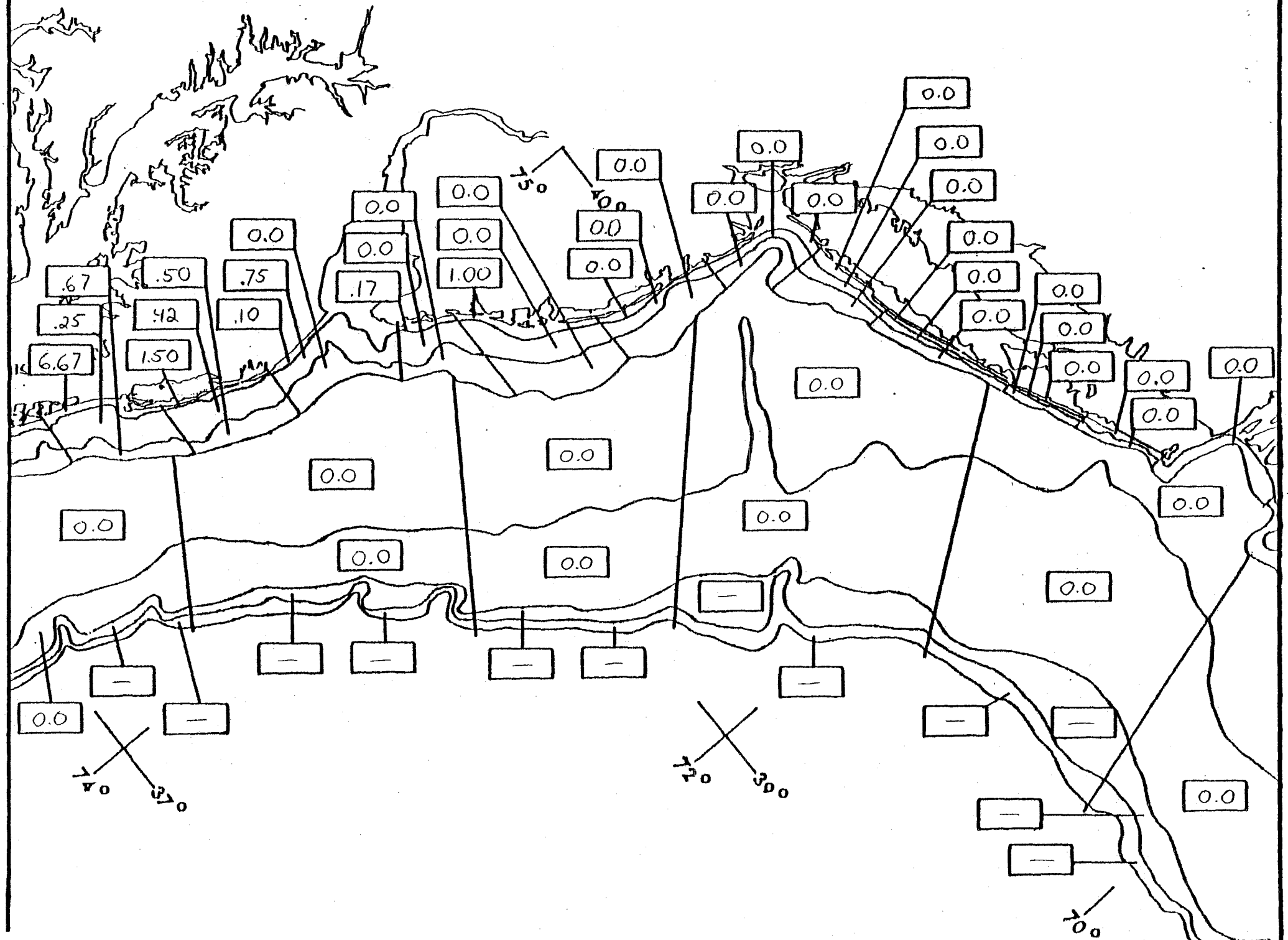

.67
.25
6.67
.50
.42
1.50
0.0
.75
.10
0.0
0.0
.17
0.0
0.0
1.00
0.0
0.0
0.0

Figure 28. prerecruits tow/summer

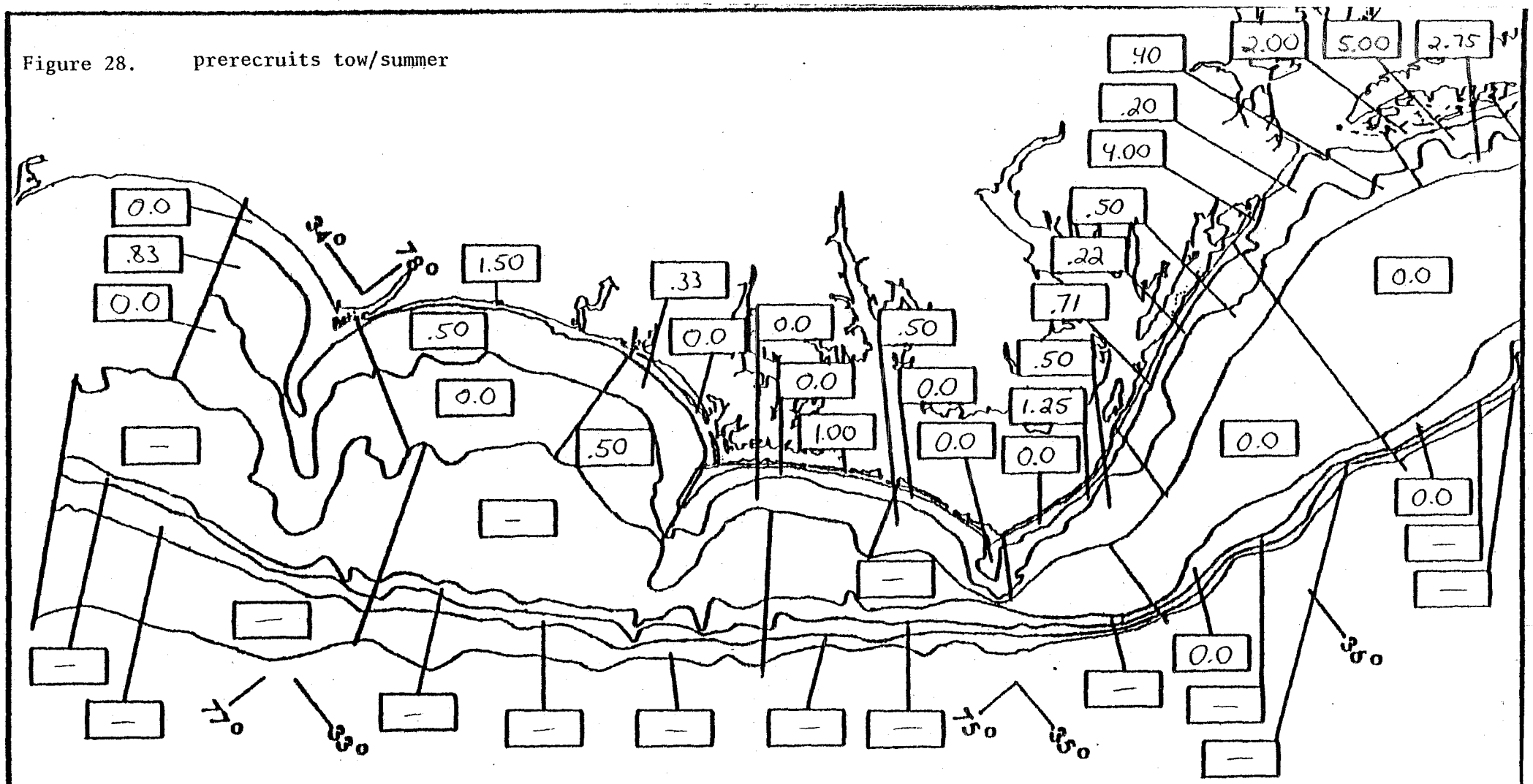
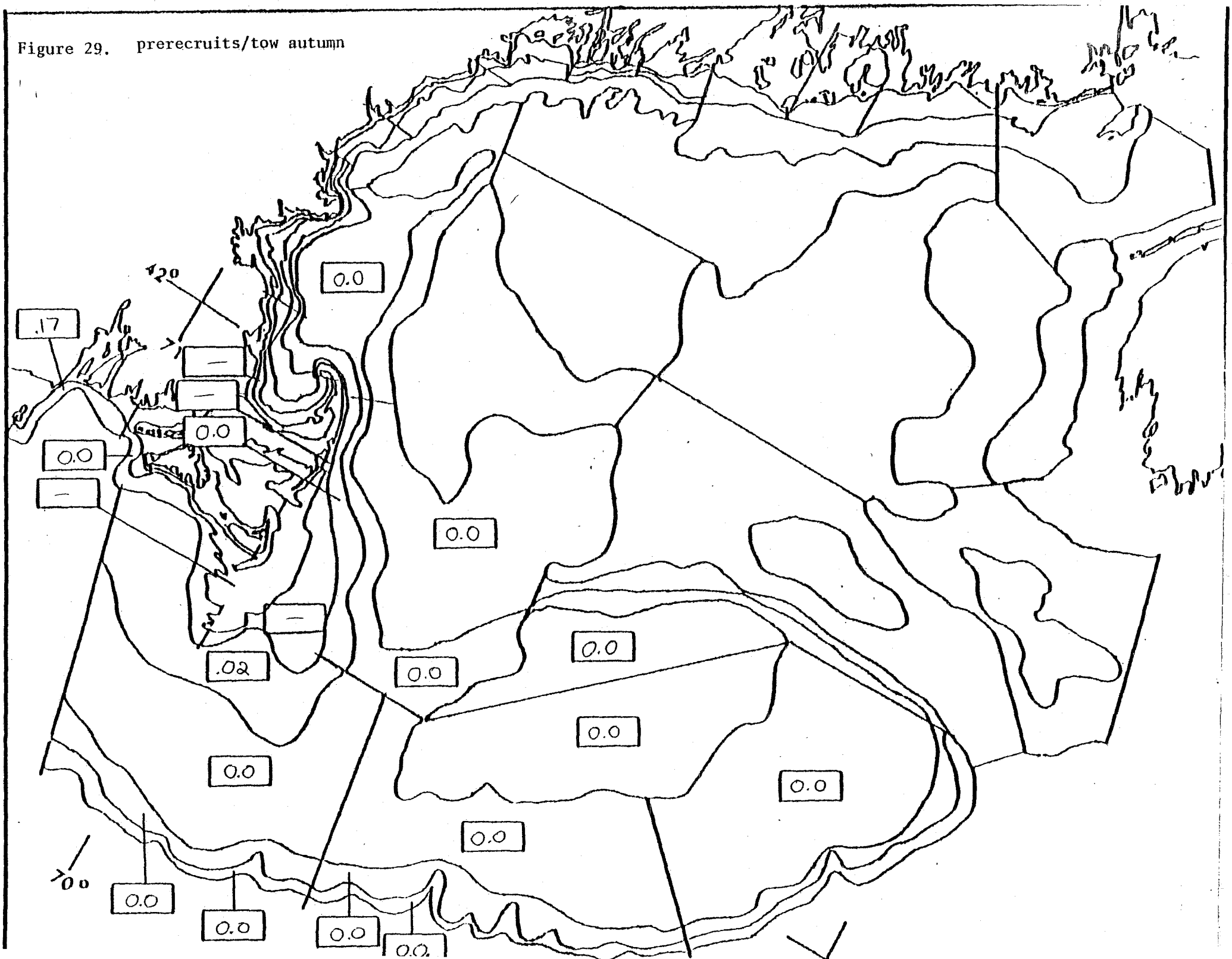


Figure 29. prerecruits/tow autumn


.17
0.0
0.0
0.0
0.0
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0.0
0.0
0.0
0.0
0.0
0.0
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.02
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0.0
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0.0
0.0
0.0
0.0
0.0

Figure 30. prerecruit/tow autumn

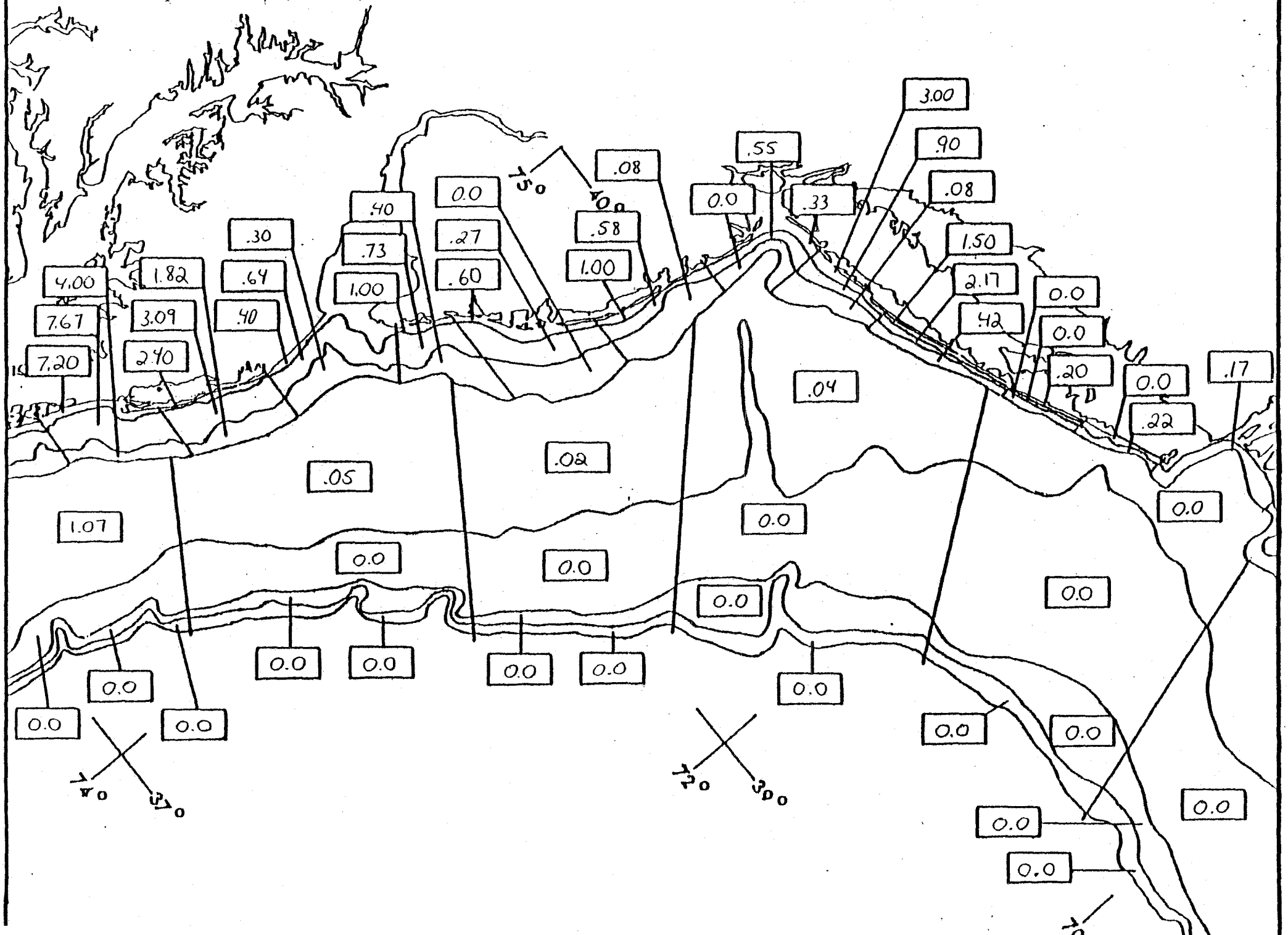


Figure 31. prerecruits/tow autumn

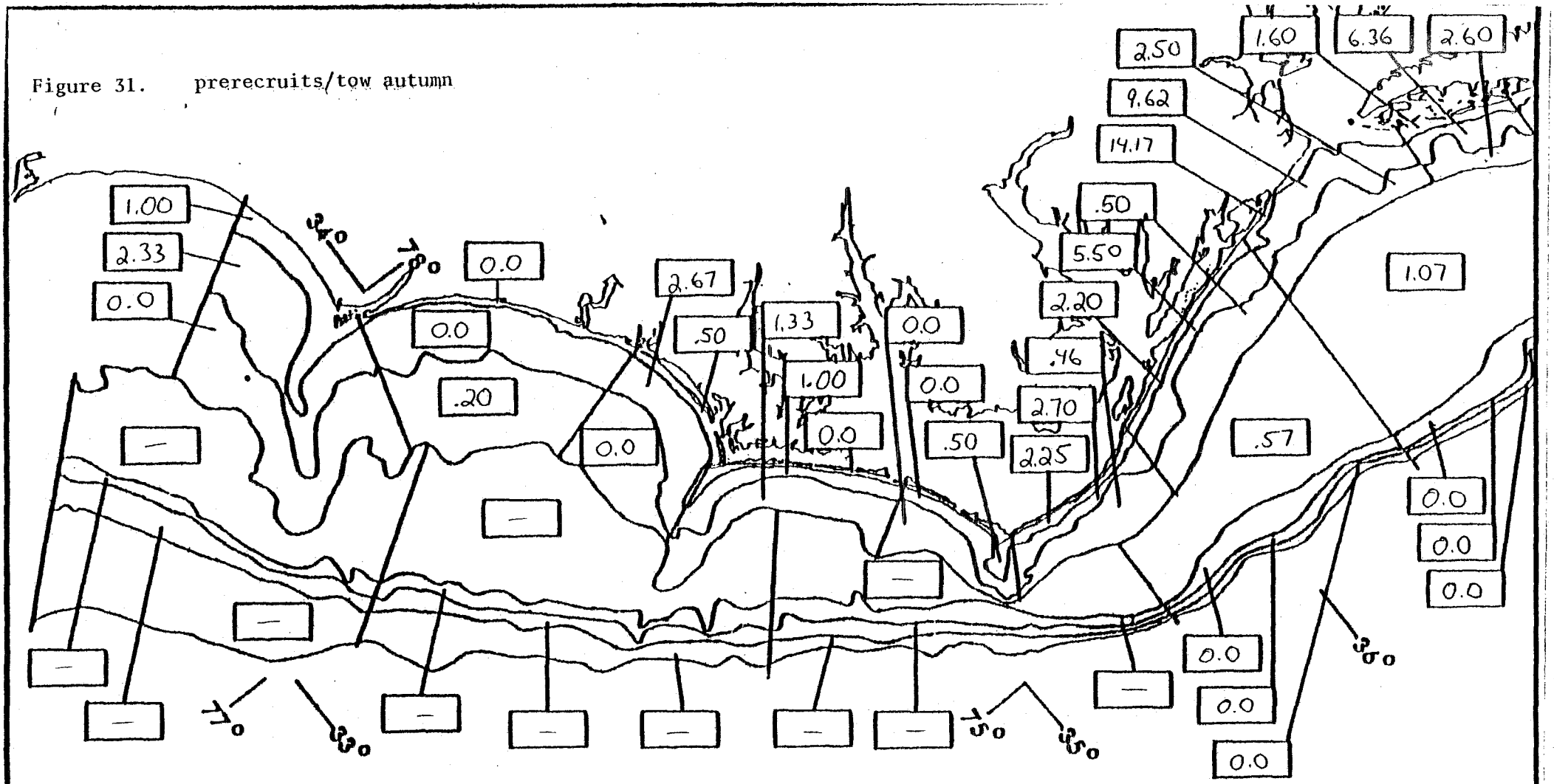


Figure 32. prerecruits/tow winter

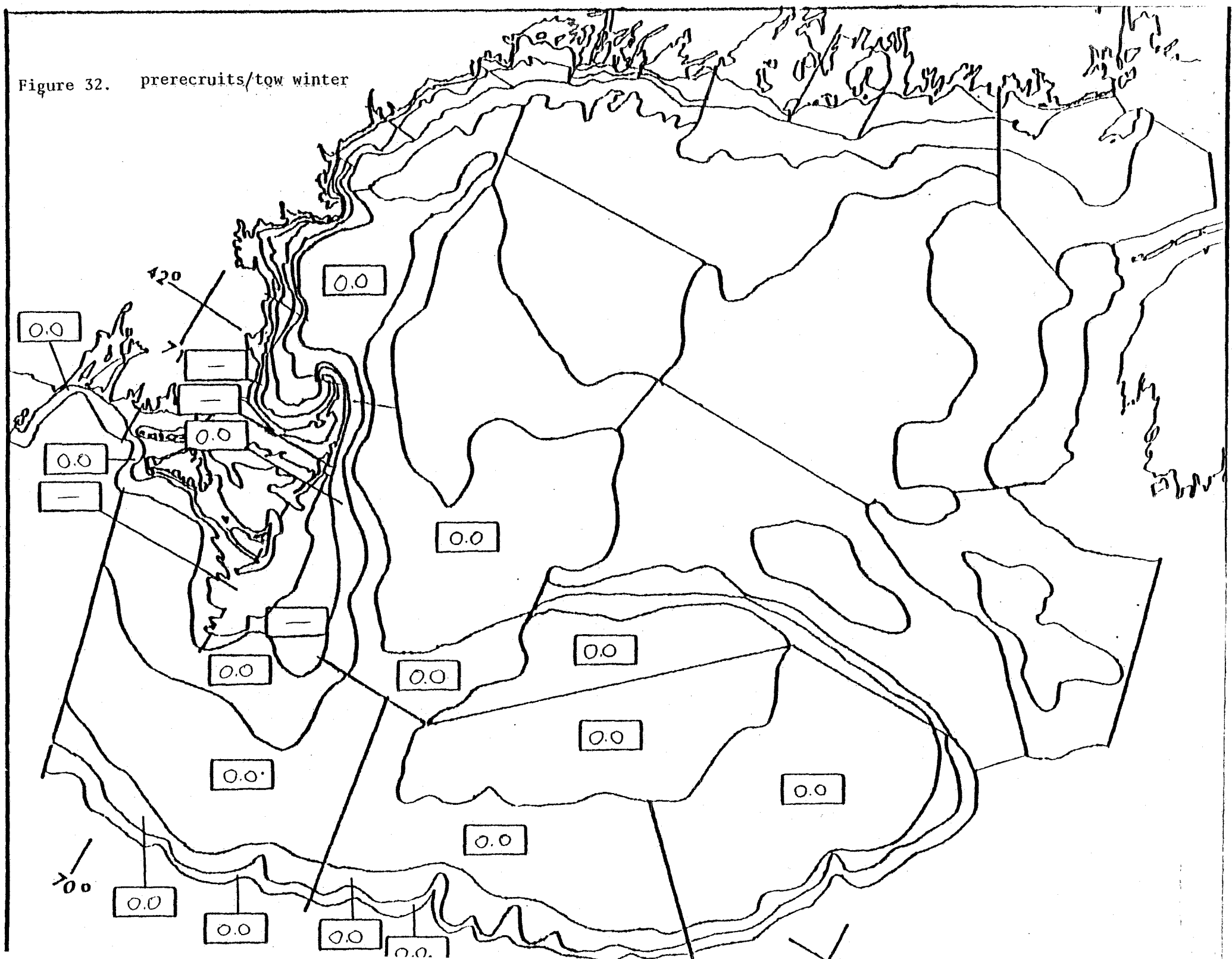

0.0
0.0
0.0

Figure 33.

prerecruits/tow winter

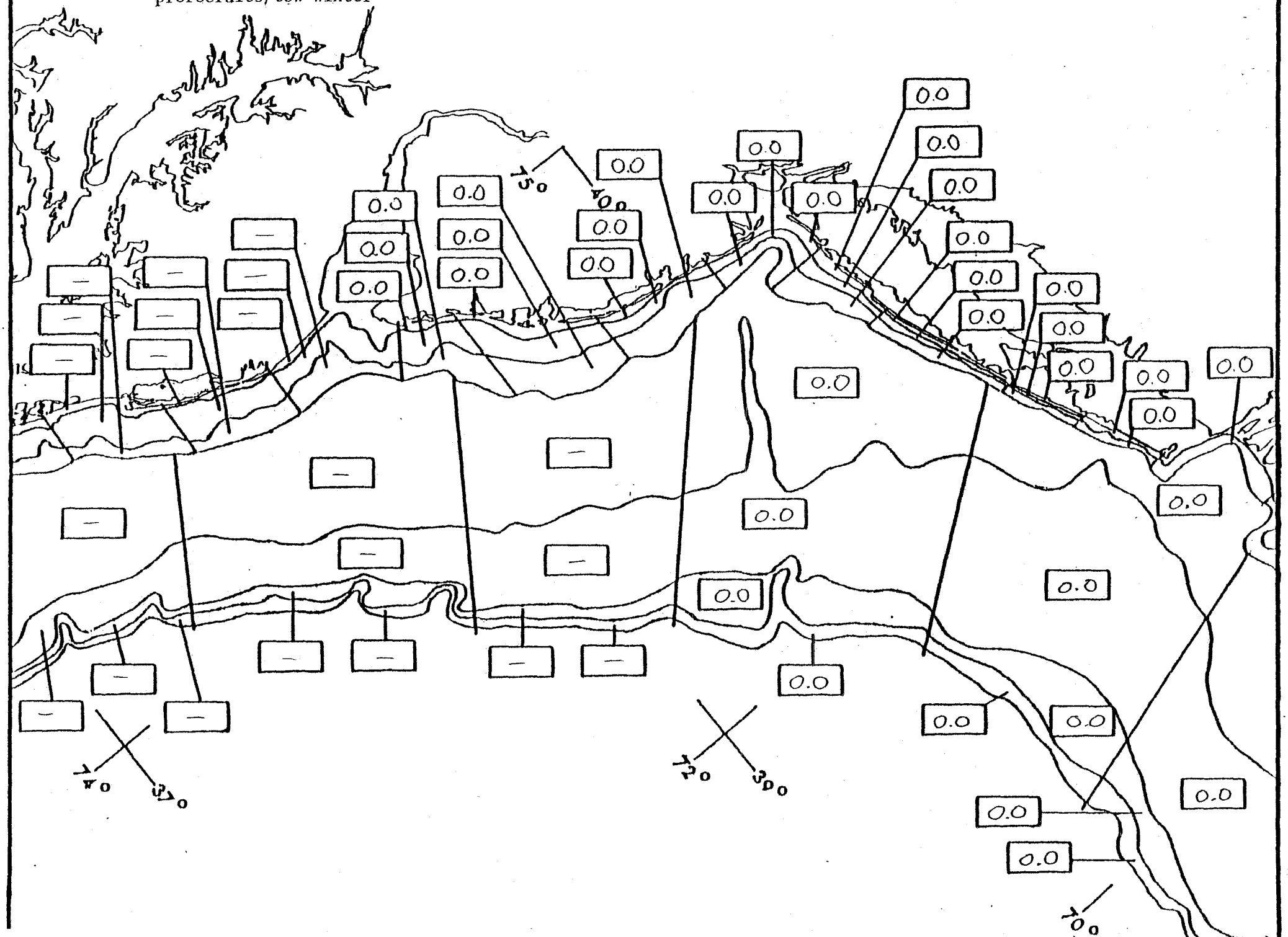
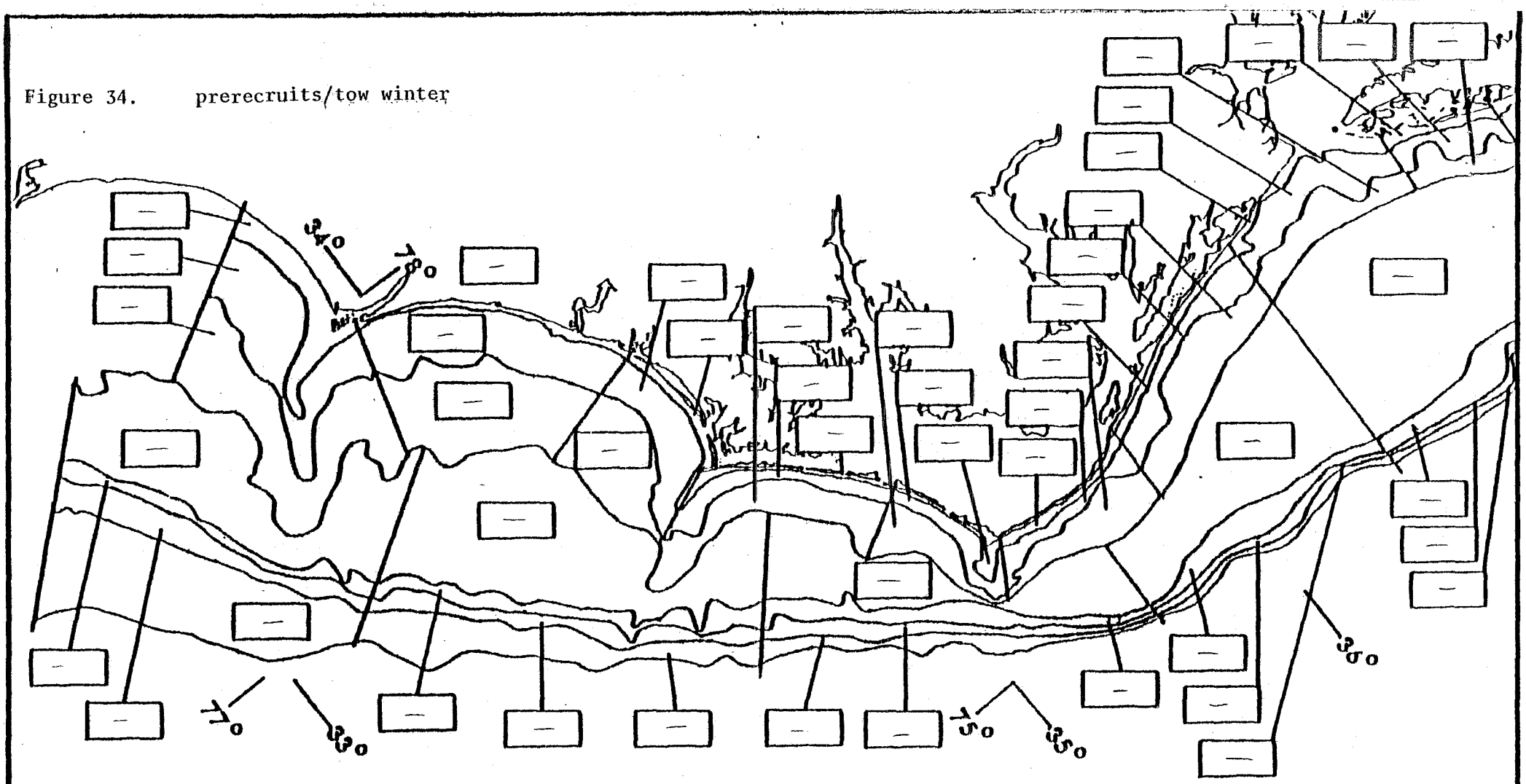

0.0
0.0
0.0

Figure 34. prerecruits/tow winter



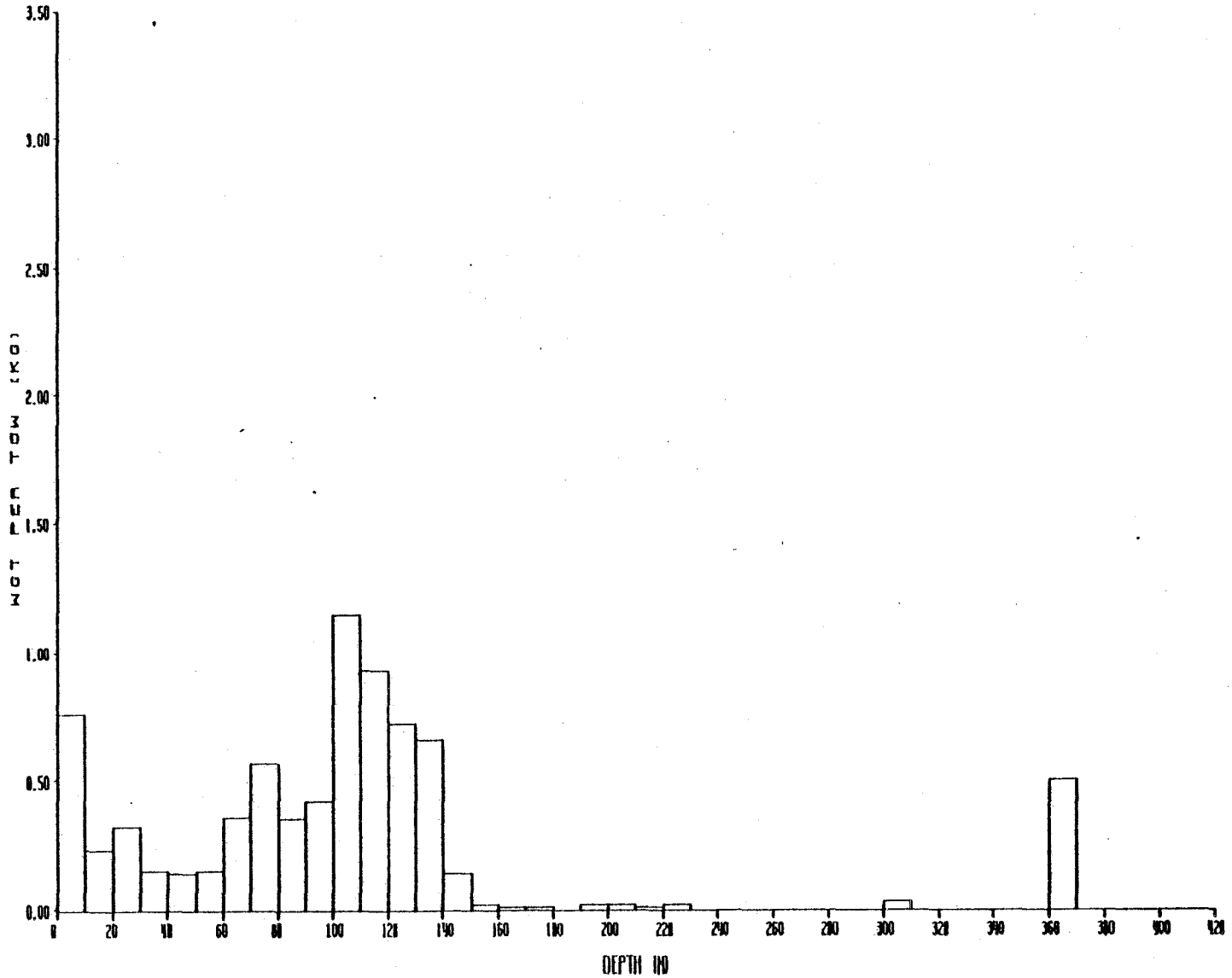



Figure 35. Spring catch stratified by depth.

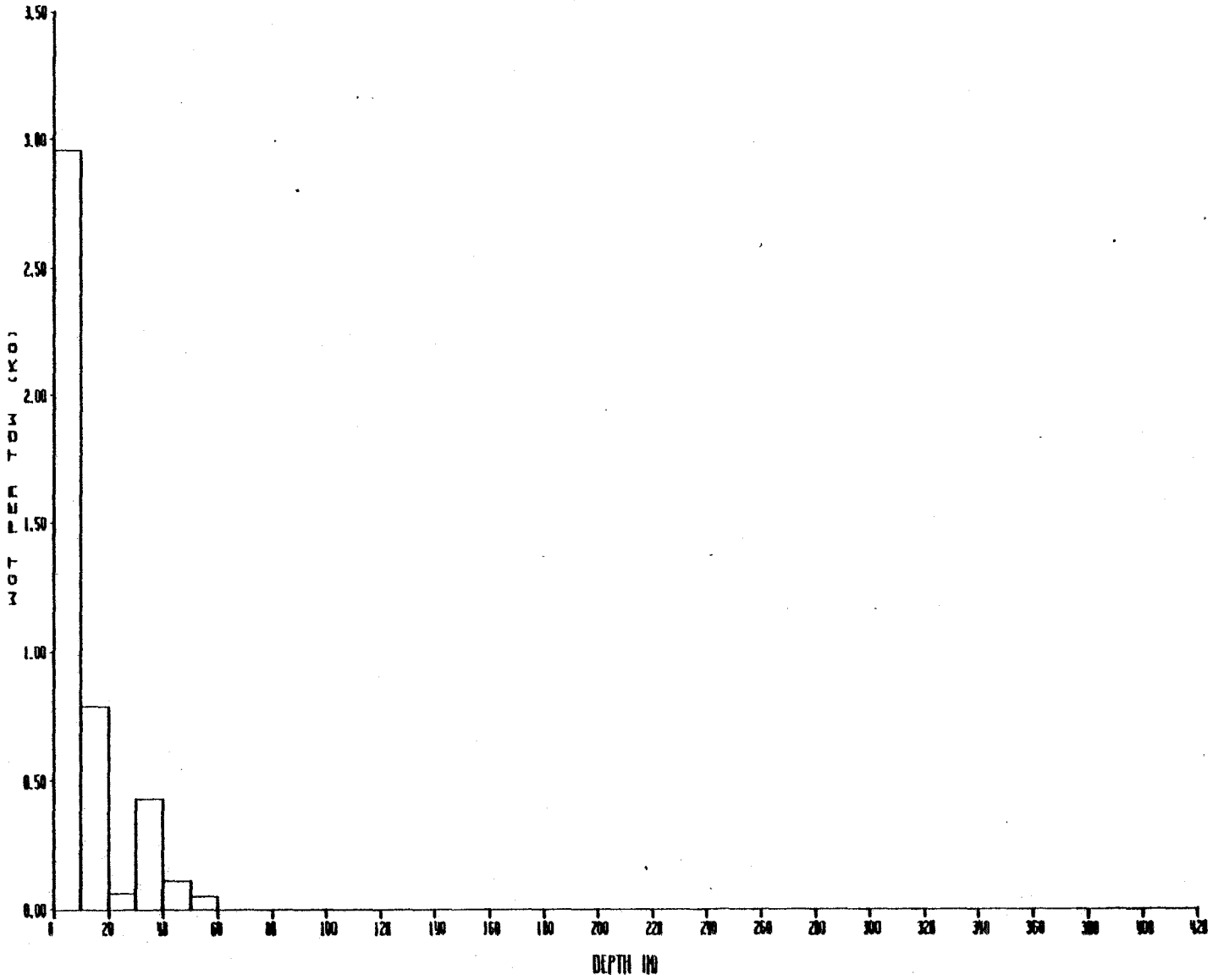



Figure 36. Summer catch stratified by depth.

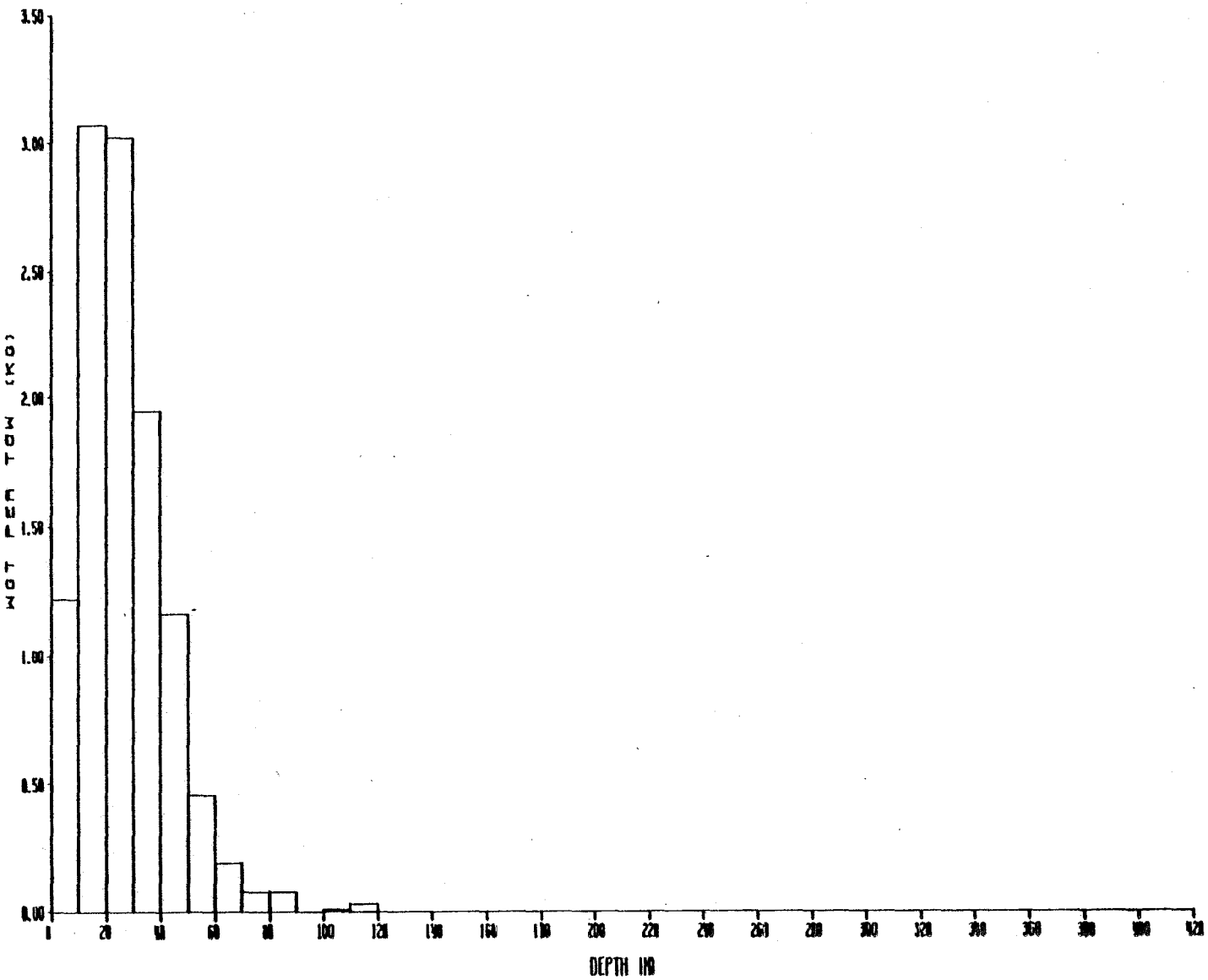



Figure 37. Autumn catch stratified by depth.

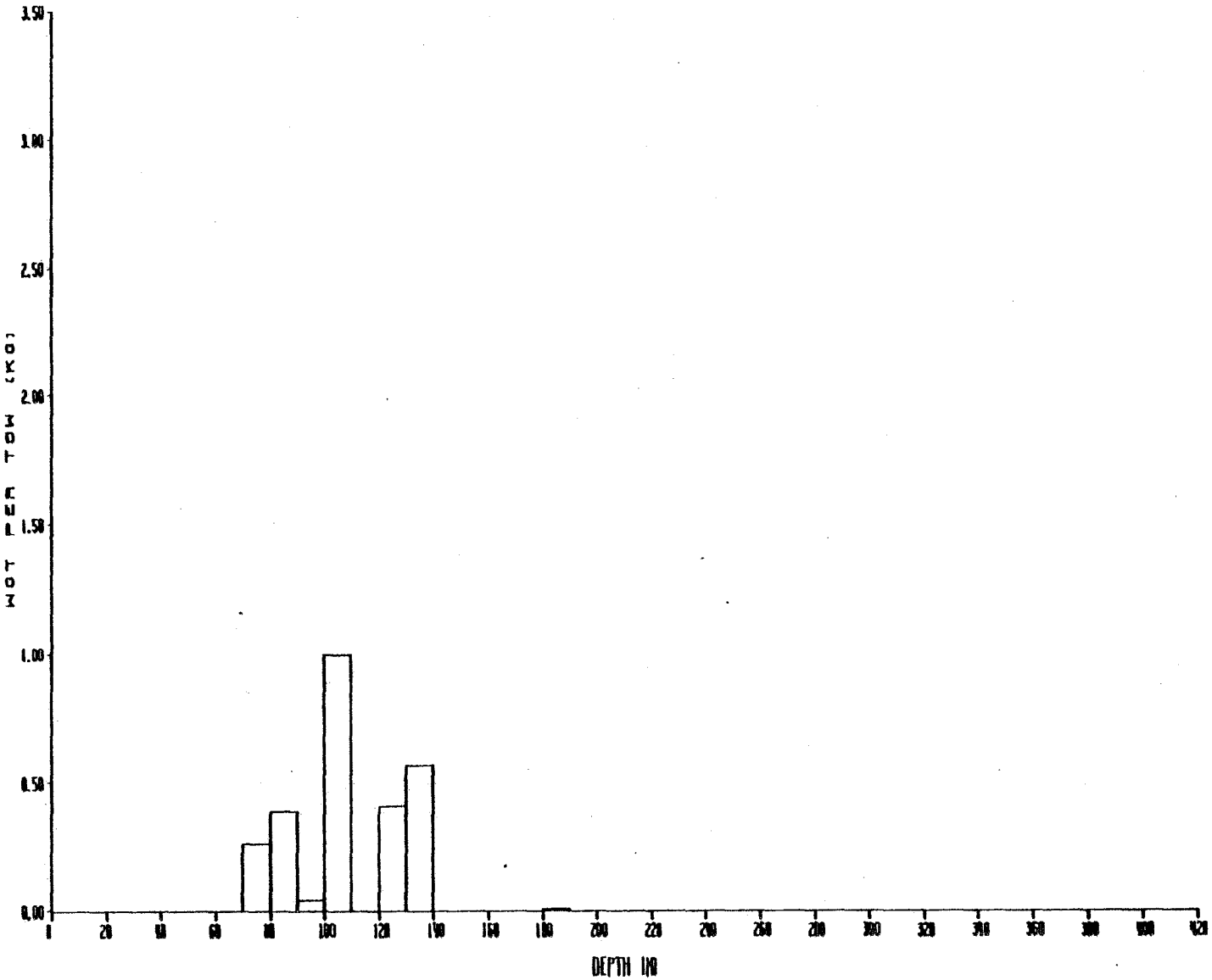



Figure 38. Winter catch stratified by depth.

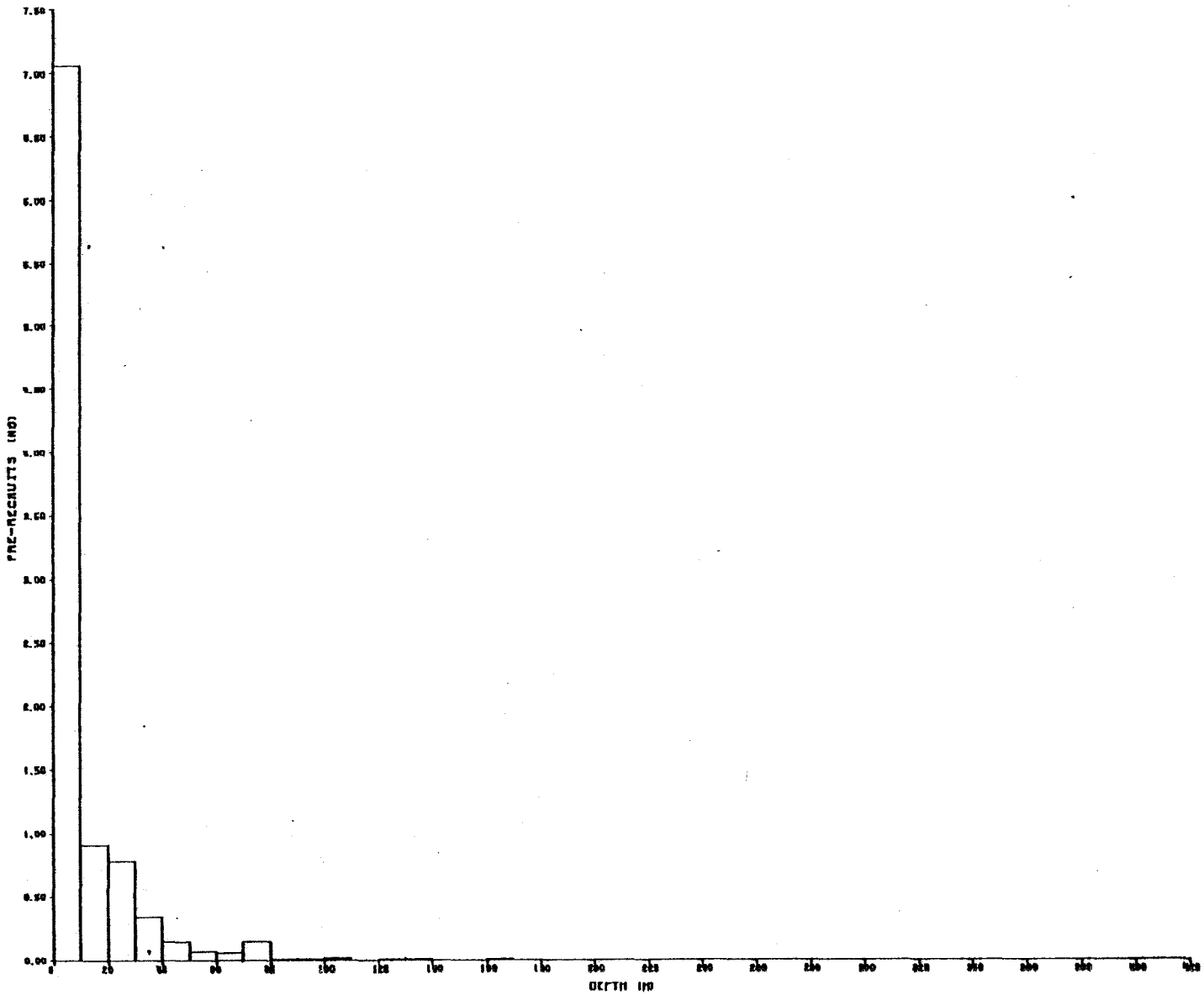



Figure 39. Spring catch of prerecruits stratified by depth.

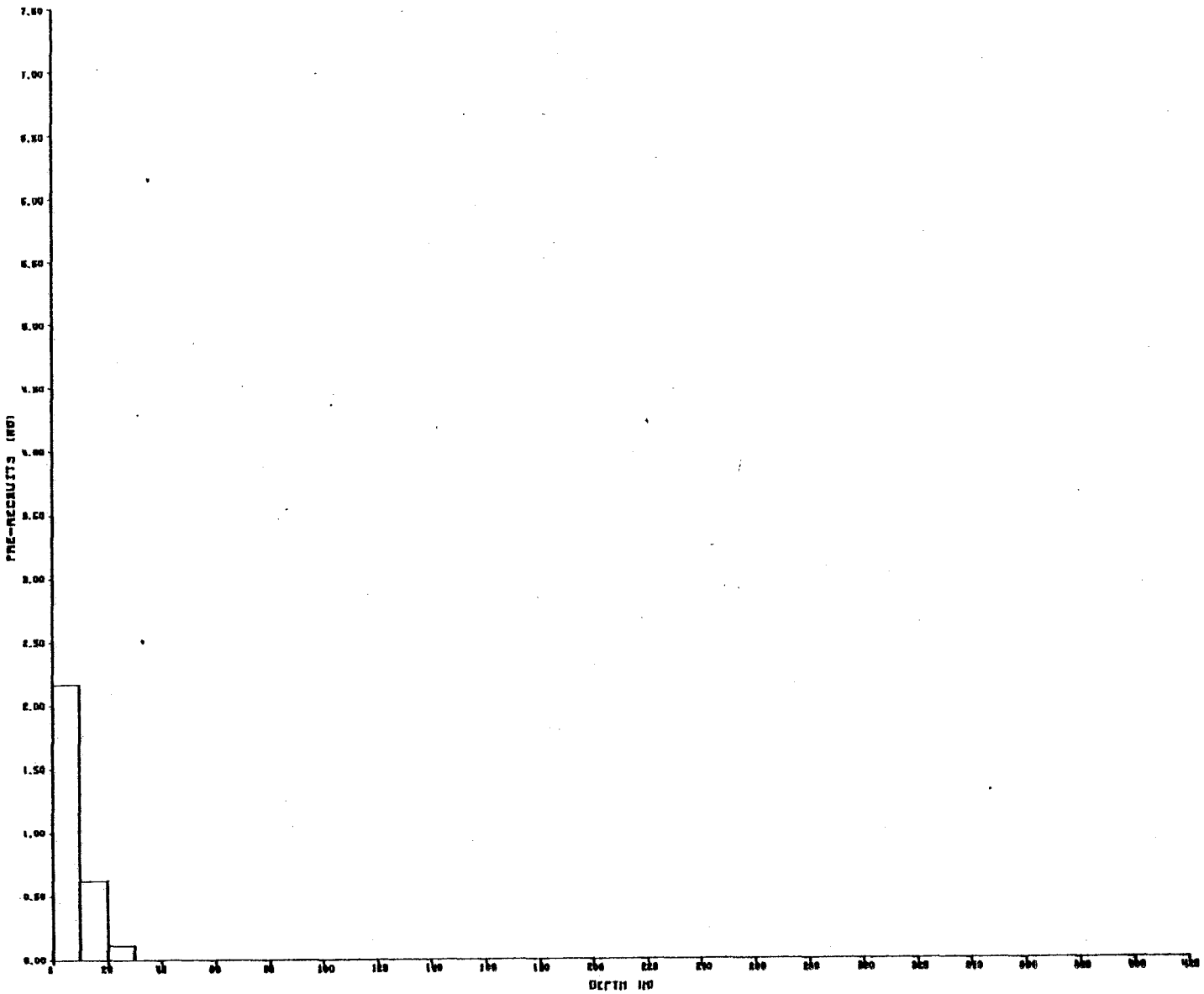



Figure 40. Summer catch of prerecruits stratified by depth.

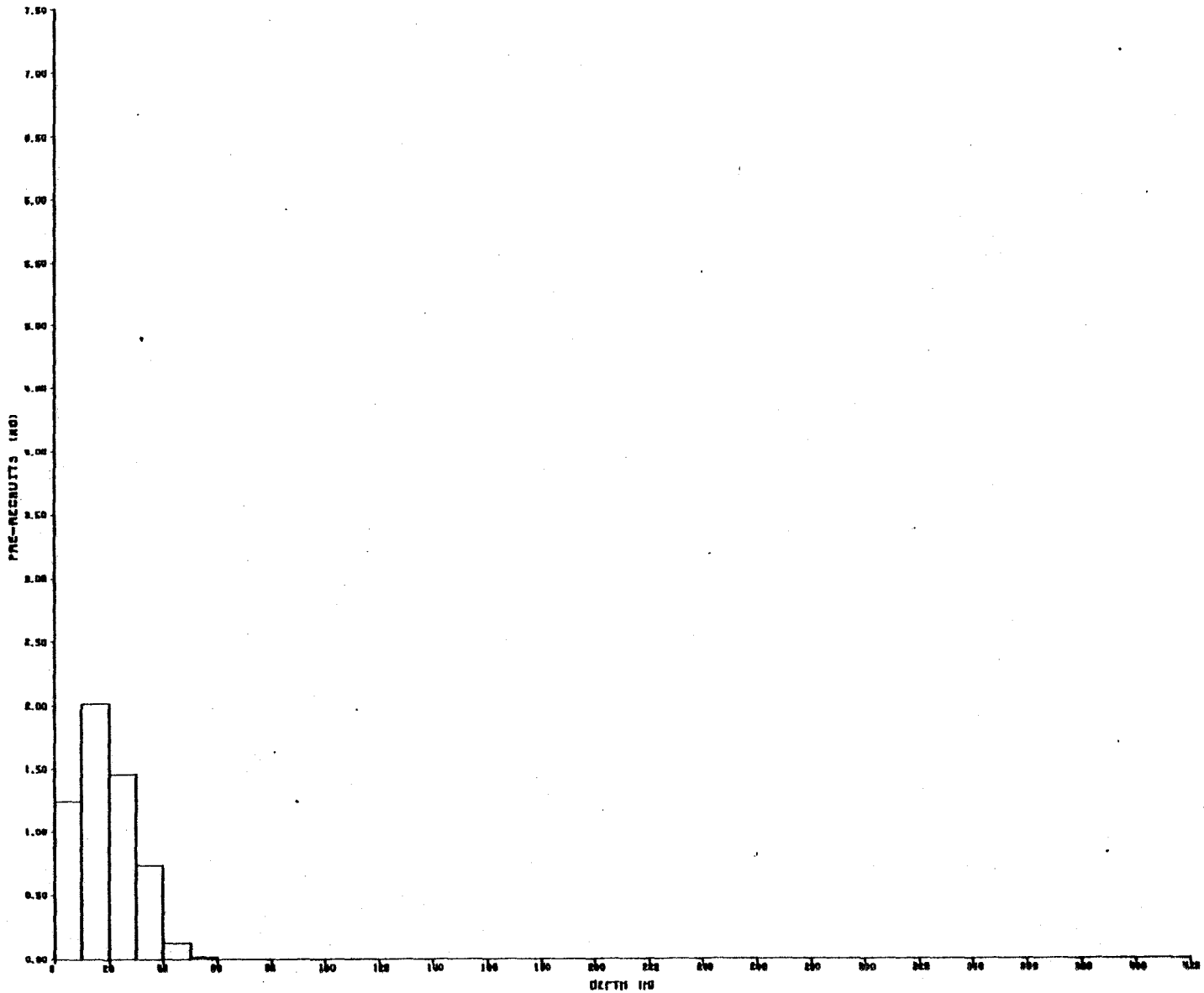



Figure 41. Autumn catch of prerecruits stratified by depth.

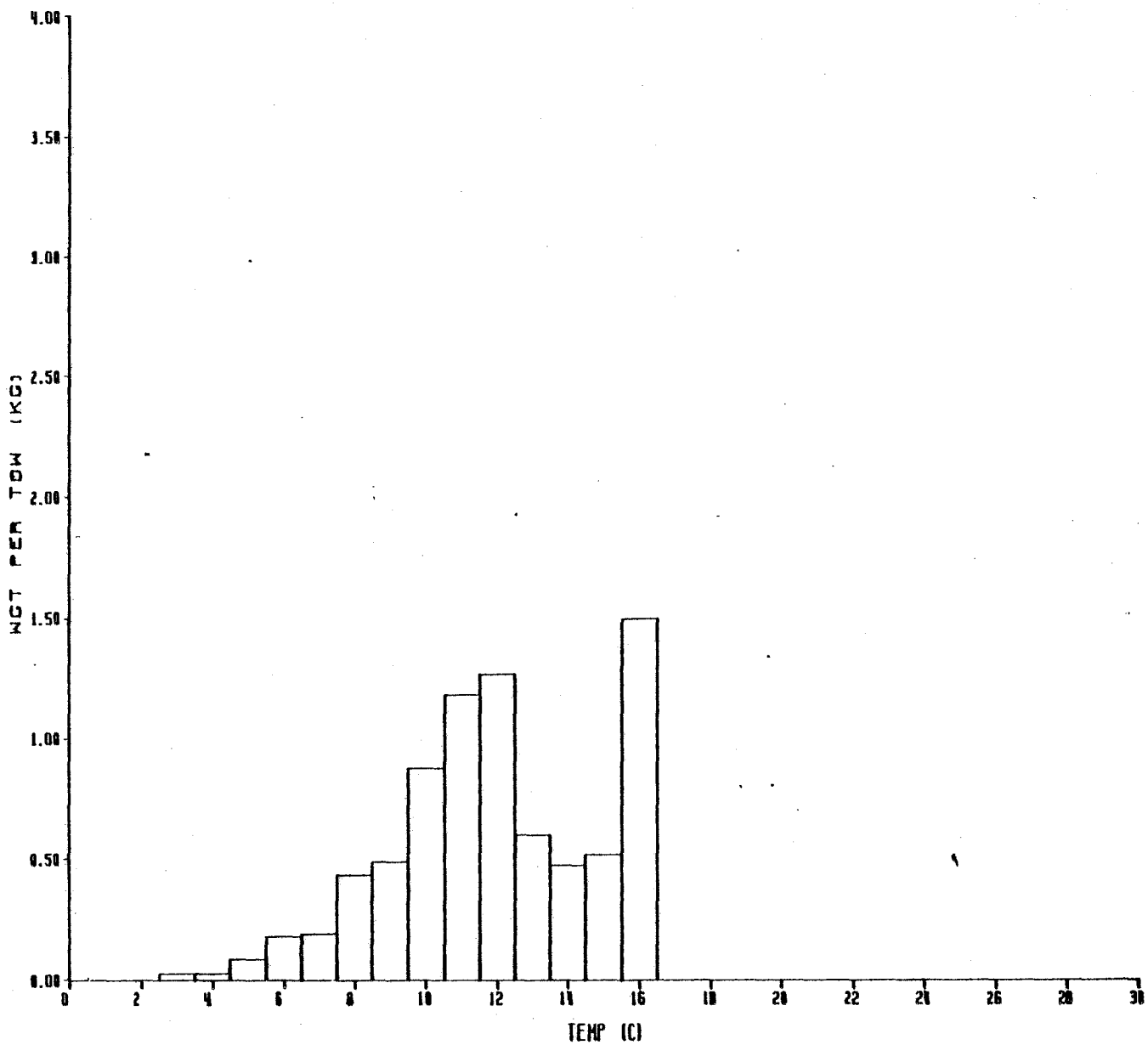



Figure 42. Spring catch stratified by bottom temperature.

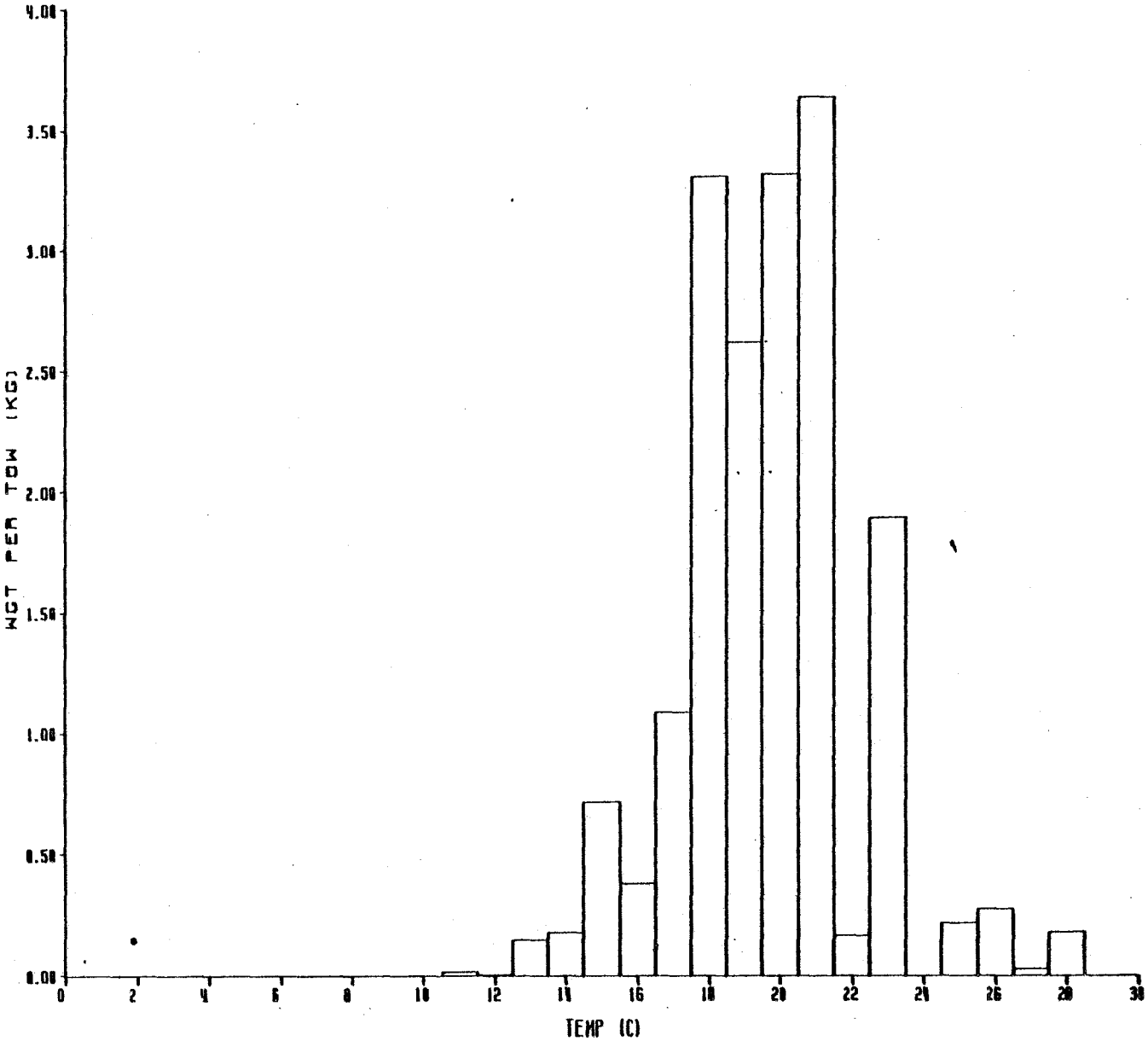



Figure 43. Summer catch stratified by bottom temperature

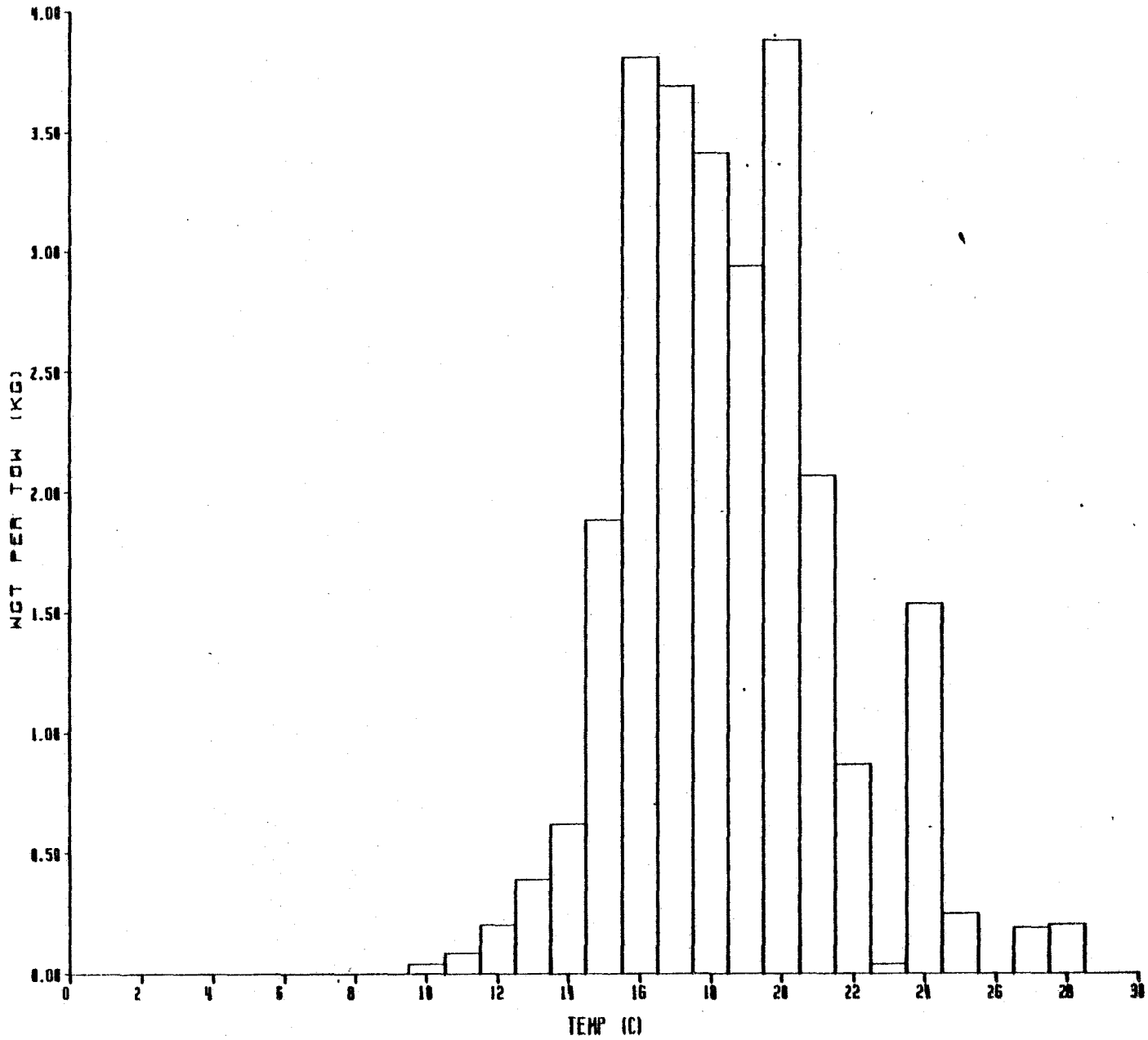



Figure 44. Autumn catch stratified by bottom temperature.

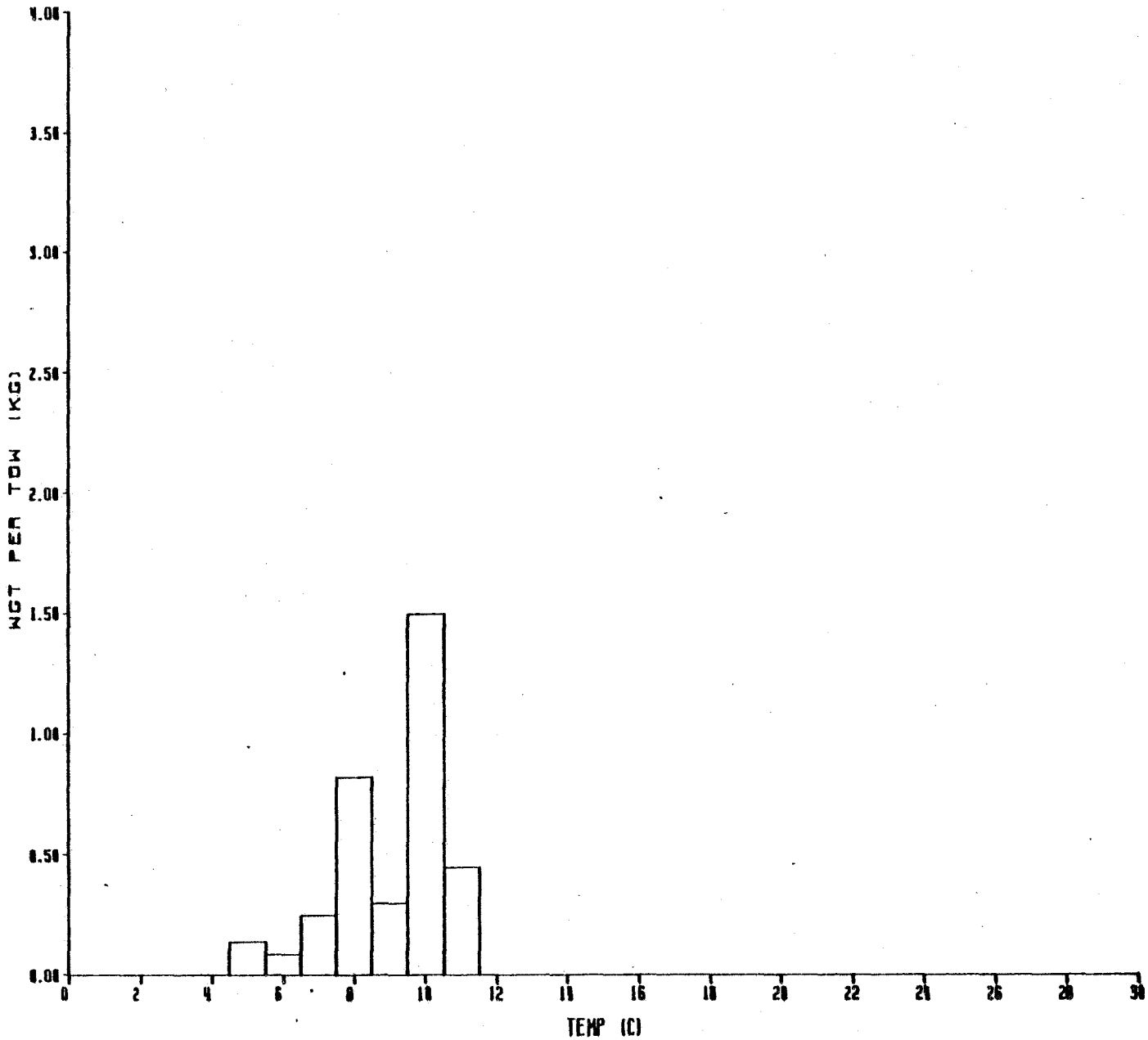



Figure 45. Winter catch stratified by bottom temperature.

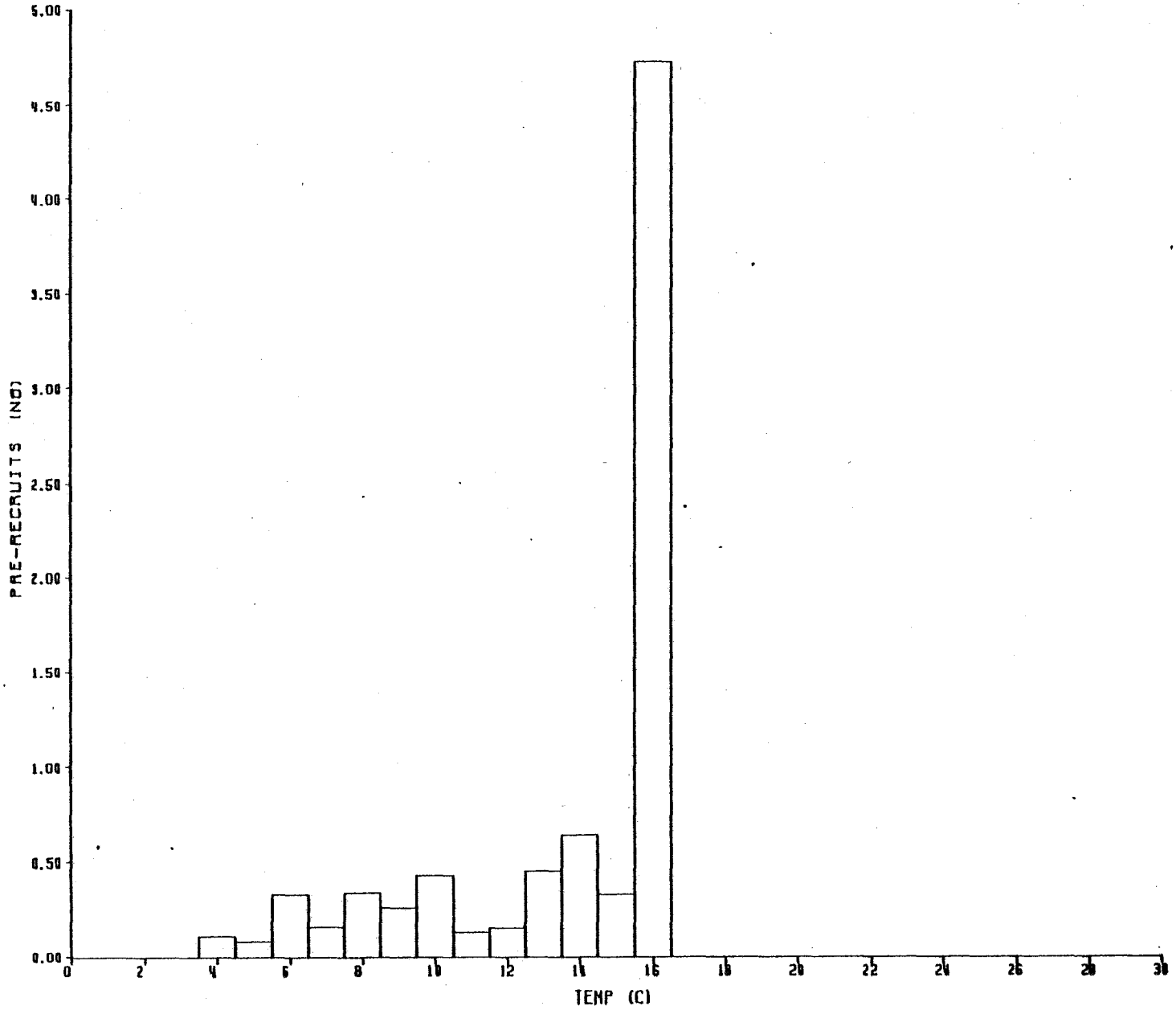



Figure 46. Spring catch of prerecruits stratified by temperature.

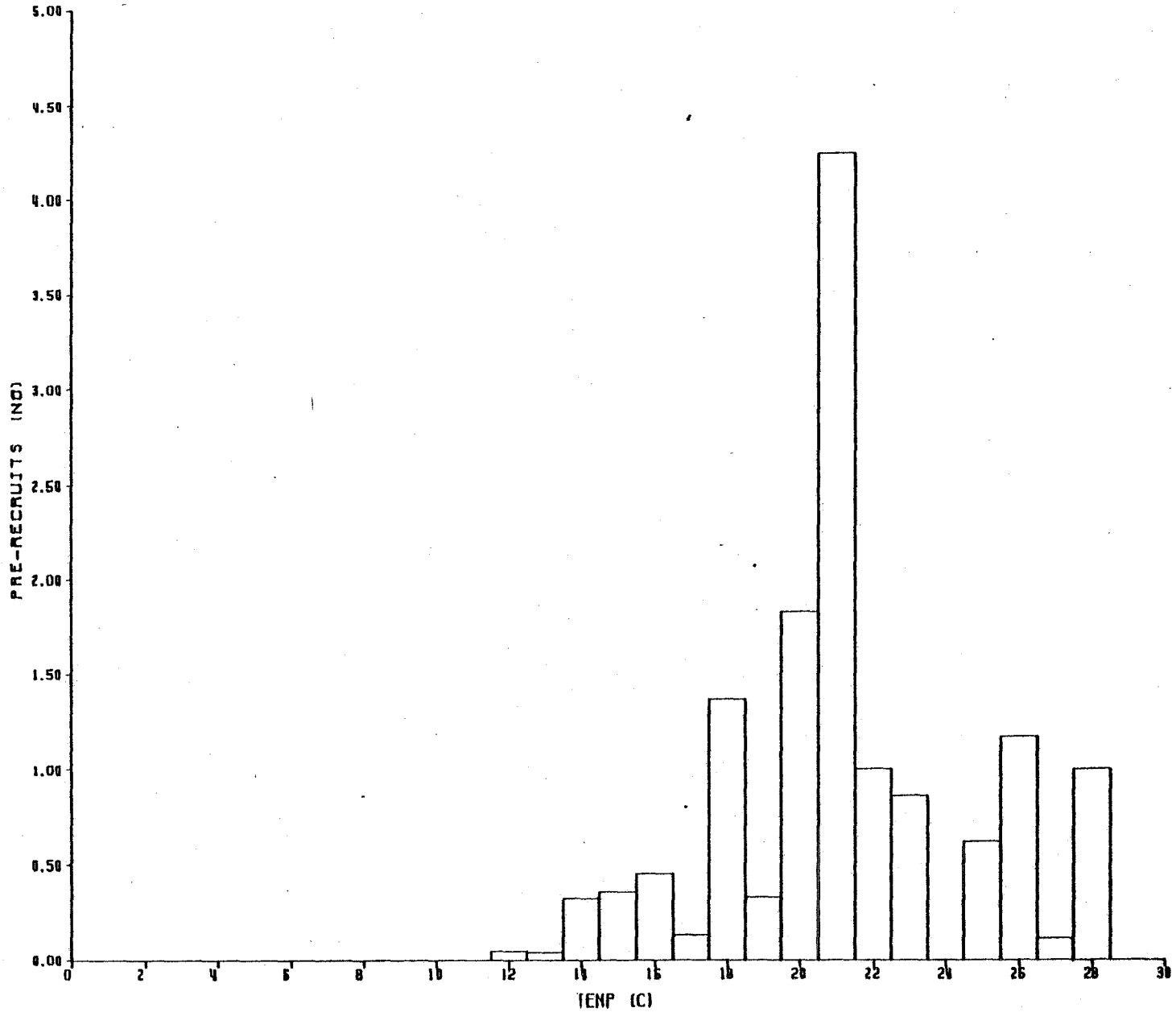



Figure 47. Summer catch of prerecruits stratified by temperature.

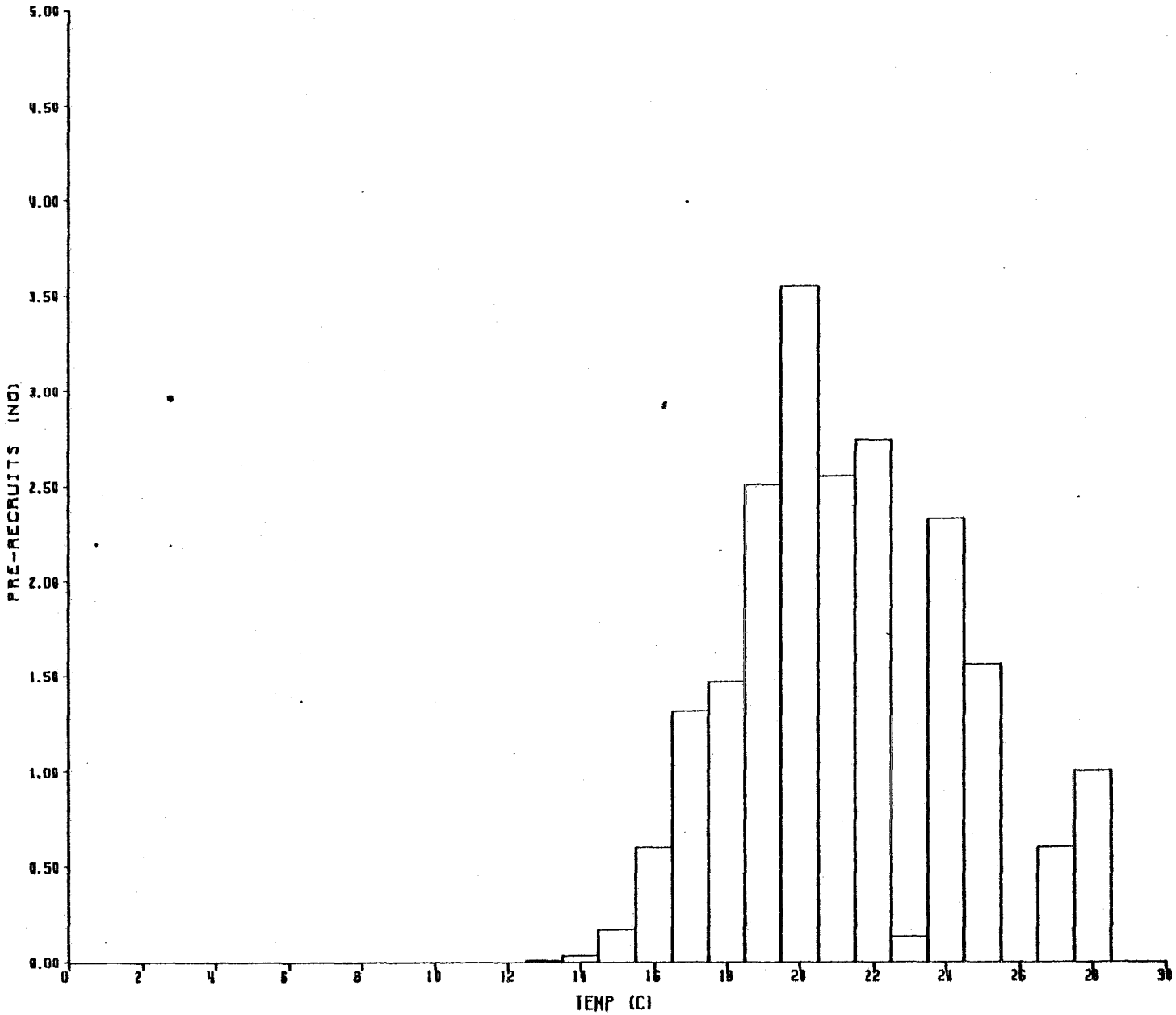



Figure 48. Autumn catch of prerecruits stratified by temperature.

## APPENDIX 1

### SUMMARY OF SURVEY DATA FOR SUMMER FLOUNDER BY SEASON, STRATA, DEPTH AND TEMPERATURE

Within each season, the mean catch per tow in kg (and standard deviation), mean catch per tow in number (and standard deviation), mean weight (kg) of fish captured, and mean number per tow of prerecruit fish (and standard deviation; prerecruit fish defined as less then 30 cm length) are given for each stratum 10 meter depth zone and 1°C temperature. Seasons are defined as follows: spring, March-May; summer, June-August; autumn, September-November; winter, December-February. The following codes are used in the data summaries: (1) depth strata i is from a depth of (i-1)··10m to i·10m; (2) for geographic strata (Figures 1-3), 1-42 and 50-77 correspond to offshore strata; 101-189 correspond to inshore strata 1-89 north of Cape Hatteras; 250-264 correspond to inshore strata 50-64 south of Cape Hatteras; (3) temperature strata j corresponds to temperature interval j-0.5 to j+0.5°C.

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASON:SPRING
SUMMARY BY STRATUM

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .02 | 1.46 | 1.20 | .00 | .00 | .67 | 1.60 | .02 | .03 | 1.22 | 1.66 | .03 | .05 | .86 | .01 |
| STD.DEV. | .12 | 2.82 | 2.09 | .00 | .00 | 2.07 | 3.99 | .12 | .26 | 6.21 | 3.40 | .17 | .32 | 2.32 | .06 |
| NO./TOW | .05 | 1.64 | .94 | .00 | .00 | .78 | 1.31 | .03 | .01 | 1.56 | 1.32 | .05 | .05 | .90 | .02 |
| STD.DEV. | .23 | 3.72 | 1.62 | .00 | .00 | 2.29 | 3.72 | .14 | .10 | 8.30 | 3.01 | .20 | .27 | 2.44 | .14 |
| NO.PREC/TOW | .02 | .12 | .02 | .00 | .00 | .02 | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .12 | .44 | .12 | .00 | .00 | .11 | .14 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .38 | .89 | 1.27 | .00 | .00 | .85 | 1.22 | .85 | 2.63 | .78 | 1.26 | .61 | 1.07 | .96 | .43 |
| NO.TOWS | 87. | 85. | 43. | 31. | 67. | 102. | 36. | 32. | 66. | 90. | 36. | 33. | 113. | 49. | 36. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .03 | .03 | .00 | .02 | .00 | .00 | .00 | .01 | .02 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .21 | .21 | .00 | .11 | .00 | .00 | .00 | .05 | .17 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .03 | .02 | .00 | .02 | .00 | .00 | .00 | .01 | .03 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .20 | .13 | .00 | .14 | .00 | .00 | .00 | .11 | .29 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .99 | 1.70 | .00 | .72 | .00 | .00 | .00 | .47 | .59 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 126. | 42. | 29. | 113. | 68. | 48. | 45. | 58. | 72. | 40. | 82. | 42. | 73. | 79. | 33. |

| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 76. | 50. | 38. | 59. | 34. | 85. | 48. | 65. | 45. | 31. | 102. | 40. | 0. | 0. | 0. |

| | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .10 | .08 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .18 | .11 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .27 | .41 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .47 | .57 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .41 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .57 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .38 | .19 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 18. | 3. | 2. | 2. | 2. | 6. | 2. | 2. | 3. | 0. | 0. | 0. |

| | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 1.13 | .81 | 1.10 | .04 | .78 | 2.18 | 1.72 | .15 | .18 | 1.51 | .74 | .06 | .04 | 1.36 | .34 |
| STD.DEV. | 1.83 | 1.67 | 2.18 | .16 | 1.32 | 4.62 | 3.03 | .44 | .44 | 2.14 | 1.32 | .26 | .17 | 2.19 | .54 |
| NO./TOW | 3.80 | 1.85 | 1.12 | .11 | 1.83 | 3.66 | 1.90 | .10 | .48 | 2.34 | .69 | .04 | .13 | 1.61 | .42 |
| STD.DEV. | 5.79 | 4.30 | 2.36 | .42 | 3.08 | 9.74 | 4.05 | .29 | 1.10 | 2.62 | 1.32 | .18 | .46 | 2.17 | .63 |
| NO.PREC/TOW | 2.23 | .48 | .05 | .00 | 1.08 | .69 | .00 | .00 | .19 | .23 | .00 | .00 | .08 | .03 | .00 |
| STD.DEV. | 3.42 | 1.60 | .20 | .00 | 2.19 | 2.45 | .00 | .00 | .43 | .45 | .00 | .00 | .28 | .17 | .00 |
| AVE.WT. | .30 | .44 | .99 | .38 | .42 | .60 | .90 | 1.51 | .37 | .65 | 1.07 | 1.41 | .32 | .84 | .82 |
| NO.TOWS | 32. | 17. | 17. | 15. | 64. | 33. | 17. | 18. | 67. | 43. | 22. | 20. | 64. | 47. | 20. |

| | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 20. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .25 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .14 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .33 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .75 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 2. | 5. | 3. | 6. | 6. |

| | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .17 | .00 | .05 | .08 | .00 | .06 | .00 | .00 | .27 | .04 | .01 | .00 | .04 | .00 |
| STD.DEV. | .00 | .51 | .00 | .09 | .16 | .00 | .11 | .00 | .00 | .38 | .13 | .03 | .00 | .11 | .00 |
| NO./TOW | .00 | .09 | .00 | .27 | .27 | .00 | .20 | .00 | .00 | 1.22 | .18 | .10 | .00 | .10 | .09 |
| STD.DEV. | .00 | .27 | .00 | .47 | .67 | .00 | .41 | .00 | .00 | 1.72 | .54 | .29 | .00 | .29 | .27 |
| NO.PREC/TOW | .00 | .00 | .00 | .27 | .27 | .00 | .00 | .00 | .00 | .41 | .09 | .10 | .00 | .00 | .09 |
| STD.DEV. | .00 | .00 | .00 | .47 | .67 | .00 | .00 | .00 | .00 | .67 | .27 | .29 | .00 | .00 | .27 |
| AVE.WT. | .00 | 1.88 | .00 | .19 | .28 | .00 | .28 | .00 | .00 | .22 | .23 | .09 | .00 | .38 | .00 |
| NO.TOWS | 2. | 9. | 8. | 3. | 9. | 9. | 4. | 6. | 7. | 2. | 9. | 8. | 3. | 8. | 9. |

| | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .08 | .00 | .00 | .71 | .00 | .00 | 1.16 | .02 | .73 | 1.68 | .31 | .19 | .76 | .22 | .15 |
| STD.DEV. | .13 | .00 | .00 | 1.17 | .00 | .00 | .90 | .05 | 1.87 | 2.78 | .40 | .36 | .70 | .20 | .40 |
| NO./TOW | .27 | .10 | .00 | 2.17 | .30 | .00 | 14.84 | .20 | .61 | 8.13 | 2.24 | 1.02 | 2.71 | 2.03 | .41 |
| STD.DEV. | .47 | .29 | .00 | 3.08 | .60 | .00 | 16.59 | .38 | 1.13 | 12.70 | 1.55 | 2.07 | 2.48 | 1.68 | .87 |
| NO.PREC/TOW | .27 | .10 | .00 | 1.90 | .30 | .00 | 14.63 | .20 | .51 | 7.06 | 2.03 | .91 | 1.90 | 1.83 | .30 |
| STD.DEV. | .47 | .29 | .00 | 2.61 | .60 | .00 | 16.75 | .38 | 1.14 | 10.83 | 1.37 | 2.01 | 1.69 | 1.78 | .60 |
| AVE.WT. | .28 | .00 | .00 | .33 | .00 | .00 | .08 | .09 | 1.20 | .21 | .14 | .19 | .28 | .11 | .38 |
| NO.TOWS | 3. | 8. | 8. | 3. | 8. | 8. | 4. | 8. | 8. | 3. | 8. | 8. | 3. | 8. | 8. |

| | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .38 | .85 | .68 | .92 | .16 | 1.01 | .92 | .74 | 3.31 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .35 | .90 | .44 | 1.10 | .34 | 1.03 | 1.07 | .63 | 3.81 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | 5.28 | 12.74 | 4.17 | 2.44 | .61 | 2.98 | 6.30 | 3.46 | 13.21 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | 3.90 | 20.10 | 3.38 | 2.44 | .72 | 3.10 | 6.17 | 2.49 | 17.16 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | 5.28 | 12.56 | 3.56 | .81 | .41 | 1.63 | 5.89 | 2.34 | 9.15 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | 3.90 | 20.07 | 3.50 | .81 | .61 | 1.99 | 5.45 | 1.87 | 13.19 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .07 | .07 | .16 | .38 | .27 | .34 | .15 | .22 | .25 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 4. | 9. | 8. | 3. | 8. | 9. | 4. | 8. | 8. | 6. | 7. | 0. | 0. | 0. | 0. |

| | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 4. | 0. | 0. | 1. | 1. | 1. | 2. | 0. | 0. | 1. | 0. |

| | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 1. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .69 | .08 | .50 | .00 | .38 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .86 | .11 | .70 | .00 | .54 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.91 | .41 | .41 | .00 | .41 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.32 | .57 | .57 | .00 | .57 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.91 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.32 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .19 | 1.22 | .00 | .94 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 2. | 2. | 2. | 1. | 2. | 2. |

| | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .15 | .03 | .13 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .04 | .22 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .81 | .27 | .27 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .47 | .47 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .81 | .27 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .47 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .19 | .09 | .47 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 1. | 3. | 3. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASONISPRING
SUMMARY BY DEPTH (M/10)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .76 | .23 | .32 | .15 | .14 | .15 | .36 | .57 | .35 | .42 | 1.14 | .93 | .72 | .66 | .14 |
| STD.DEV. | 1.21 | .56 | 1.17 | .56 | .80 | .51 | 1.20 | 2.23 | 1.43 | 1.55 | 5.47 | 2.48 | 2.58 | 1.62 | .53 |
| NO./TOW | 7.35 | 1.12 | 1.17 | .50 | .34 | .31 | .46 | .87 | .46 | .47 | 1.45 | .94 | .60 | .48 | .14 |
| STD.DEV. | 14.39 | 2.55 | 4.81 | 1.92 | 1.82 | 1.04 | 1.42 | 4.30 | 2.00 | 1.99 | 7.26 | 2.60 | 2.35 | 1.28 | .53 |
| NO.PREC/TOW | 7.07 | .91 | .78 | .34 | .14 | .07 | .06 | .15 | .01 | .01 | .02 | .00 | .01 | .01 | .00 |
| STD.DEV. | 14.25 | 2.39 | 3.46 | 1.51 | .82 | .32 | .29 | 1.14 | .10 | .08 | .12 | .00 | .07 | .08 | .00 |
| AVE.WT. | .10 | .21 | .27 | .31 | .42 | .49 | .78 | .66 | .77 | .89 | .79 | .99 | 1.21 | 1.37 | 1.07 |
| NO.TOWS | 26. | 199. | 176. | 216. | 233. | 219. | 248. | 189. | 247. | 221. | 127. | 104. | 131. | 96. | 115. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .02 | .01 | .01 | .00 | .02 | .02 | .01 | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .14 | .14 | .13 | .00 | .16 | .16 | .04 | .11 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .02 | .02 | .01 | .00 | .01 | .01 | .01 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .11 | .24 | .09 | .00 | .09 | .12 | .10 | .18 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .01 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .08 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | 1.28 | .59 | 1.41 | .00 | 1.70 | 1.36 | .43 | .43 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 54. | 103. | 82. | 92. | 77. | 73. | 61. | 40. | 51. | 30. | 29. | 14. | 23. | 14. | 15. |

| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .03 | .00 | .00 | .00 | .00 | .00 | .50 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .14 | .00 | .00 | .00 | .00 | .00 | .70 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .08 | .00 | .00 | .00 | .00 | .00 | .41 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .36 | .00 | .00 | .00 | .00 | .00 | .57 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .38 | .00 | .00 | .00 | .00 | .00 | 1.22 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 20. | 18. | 25. | 13. | 11. | 5. | 2. | 0. | 0. | 2. | 0. | 0. | 0. | 0. | 0. |

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASONISPRING
SUMMARY BY BOT TEMP (C)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .16 | .00 | .03 | .03 | .09 | .18 | .19 | .43 | .49 | .88 | 1.18 | 1.27 | .60 | .47 | .52 |
| STD.DEV. | .78 | .00 | .24 | .22 | .65 | .96 | .87 | 1.75 | 1.56 | 1.97 | 2.69 | 5.44 | 1.23 | 1.53 | .84 |
| NO./TOW | .17 | .00 | .01 | .13 | .18 | .56 | .40 | .75 | .80 | 1.35 | 1.44 | 1.72 | 1.01 | .85 | .81 |
| STD.DEV. | .91 | .00 | .12 | 1.83 | .95 | 3.47 | 1.77 | 2.77 | 2.17 | 3.08 | 3.56 | 8.08 | 2.45 | 2.39 | 1.08 |
| NO.PREC/TOW | .00 | .00 | .00 | .11 | .08 | .33 | .16 | .34 | .26 | .43 | .13 | .15 | .45 | .64 | .33 |
| STD.DEV. | .00 | .00 | .00 | 1.82 | .56 | 3.12 | .93 | 1.60 | 1.22 | 2.10 | .79 | 1.25 | 1.85 | 2.27 | .79 |
| AVE.WT. | .91 | .00 | 1.81 | .24 | .49 | .32 | .48 | .56 | .61 | .65 | .82 | .74 | .60 | .55 | .64 |
| NO.TOWS | 170. | 25. | 140. | 466. | 722. | 489. | 385. | 290. | 171. | 137. | 153. | 147. | 58. | 29. | 10. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 1.50 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | 2.98 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | 6.43 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | 14.27 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | 4.73 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | 11.54 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .23 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 11. | 6. | 1. | 2. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASONISUMMER
SUMMARY BY STRATUM

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 7. | 7. | 0. | 0. | 5. | 8. | 0. | 0. | 6. | 8. | 0. | 0. | 9. | 0. | 0. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .76 | .25 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | 1.44 | .61 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .50 | .17 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .97 | .41 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | 1.52 | 1.50 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 11. | 0. | 0. | 10. | 6. | 0. | 0. | 5. | 7. | 4. | 6. | 4. | 8. | 0. | 0. |

| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 6. | 7. | 5. | 3. | 0. | 0. | 0. | 0. | 0. |

| | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 3. | 2. | 0. | 0. | 7. | 3. | 0. | 0. | 8. | 4. | 0. | 0. | 5. | 4. | 0. |

| | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .35 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .99 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .25 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .71 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.40 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 8. | 4. | 2. | 4. | 9. |

| | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .18 | .00 | 1.21 | .00 | .00 | .40 | .11 | .00 | 2.60 | .09 | .00 | 14.57 | .70 | .00 |
| STD.DEV. | .00 | .40 | .00 | 2.20 | .00 | .00 | .00 | .40 | .00 | .00 | .38 | .00 | 16.01 | 1.44 | .00 |
| NO./TOW | .00 | .20 | .00 | 1.43 | .00 | .00 | 1.00 | .07 | .00 | 3.00 | .13 | .00 | 24.67 | .46 | .00 |
| STD.DEV. | .00 | .45 | .00 | 2.61 | .00 | .00 | .00 | .27 | .00 | .00 | .50 | .00 | 33.23 | .97 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.73 | .00 | .00 |
| AVE.WT. | .00 | .90 | .00 | .85 | .00 | .00 | .40 | 1.50 | .00 | .87 | .75 | .00 | .59 | 1.52 | .00 |
| NO.TOWS | 1. | 5. | 4. | 7. | 10. | 4. | 1. | 14. | 4. | 1. | 16. | 4. | 3. | 13. | 10. |

| | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 1.12 | 1.71 | .00 | .93 | .69 | .27 | 1.57 | .27 | .95 | 2.87 | .03 | .17 | .97 | 1.37 | .52 |
| STD.DEV. | 2.20 | 3.15 | .00 | 1.62 | 1.32 | .97 | 2.48 | .66 | 1.64 | 3.89 | .05 | .29 | 1.34 | 2.09 | .39 |
| NO./TOW | 2.33 | 2.00 | .00 | 1.30 | 1.88 | .15 | 4.00 | .83 | 1.50 | 9.33 | .25 | .67 | 3.00 | 6.25 | 2.75 |
| STD.DEV. | 4.80 | 3.42 | .00 | 2.11 | 3.72 | .55 | 6.32 | 2.12 | 2.38 | 11.37 | .50 | 1.15 | 3.00 | 9.84 | 2.06 |
| NO.PREC/TOW | .17 | .00 | .00 | .10 | .75 | .00 | 1.50 | .42 | .50 | 6.67 | .25 | .67 | 2.00 | 5.00 | 2.75 |
| STD.DEV. | .41 | .00 | .00 | .32 | 1.75 | .00 | 2.35 | 1.16 | 1.00 | 8.33 | .50 | 1.15 | 1.73 | 7.35 | 2.06 |
| AVE.WT. | .48 | .86 | .00 | .72 | .37 | 1.75 | .39 | .33 | .63 | .31 | .10 | .25 | .32 | .22 | .19 |
| NO.TOWS | 6. | 8. | 9. | 10. | 8. | 13. | 6. | 12. | 4. | 3. | 4. | 3. | 3. | 4. | 4. |

| | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 1.15 | .02 | .12 | .11 | .09 | .13 | .00 | .40 | .07 | .00 | .70 | .00 | .00 | .00 | .00 |
| STD.DEV. | .65 | .04 | .34 | .20 | .18 | .15 | .00 | .67 | .10 | .00 | 1.57 | .00 | .00 | .00 | .00 |
| NO./TOW | 5.00 | .20 | .40 | .71 | .33 | .50 | .00 | 1.50 | .50 | .00 | .20 | .00 | .00 | .00 | .00 |
| STD.DEV. | 1.83 | .42 | 1.12 | 1.25 | .71 | .58 | .00 | 2.38 | .58 | .00 | .45 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | 4.00 | .20 | .40 | .71 | .22 | .50 | .00 | 1.25 | .50 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .82 | .42 | 1.12 | 1.25 | .67 | .58 | .00 | 1.89 | .58 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .23 | .10 | .30 | .16 | .27 | .25 | .00 | .27 | .15 | .00 | 3.50 | .00 | .00 | .00 | .00 |
| NO.TOWS | 4. | 10. | 15. | 7. | 9. | 4. | 2. | 4. | 4. | 4. | 5. | 0. | 0. | 0. | 0. |

| | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 7.35 | .00 | .00 | 4.00 | .47 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .06 |
| STD.DEV. | 1.77 | .00 | .00 | 3.54 | 1.49 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .17 |
| NO./TOW | 4.50 | .00 | .00 | 3.80 | .20 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .29 |
| STD.DEV. | .71 | .00 | .00 | 3.19 | .63 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .53 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .21 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .50 |
| AVE.WT. | 1.63 | .00 | .00 | 1.05 | 2.35 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .22 |
| NO.TOWS | 2. | 4. | 0. | 5. | 10. | 1. | 0. | 4. | 6. | 4. | 10. | 2. | 1. | 2. | 14. |

| | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 4. | 0. | 0. | 4. | 1. | 3. | 2. | 3. | 2. | 2. | 0. | 0. | 2. | 0. | 1. |

| | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 2. | 0. | 2. | 0. | 4. | 0. | 2. | 0. | 2. | 6. | 0. | 0. | 0. | 0. | 0. |

| | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NB./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NB.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NB.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .25 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .07 | .35 | .00 | .00 |
| NB./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .50 | 1.00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .71 | 1.41 | .00 | .00 |
| NB.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .50 | 1.00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .71 | 1.41 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .10 | .25 | .00 | .00 |
| NB.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 1. | 2. | 2. | 2. | 2. | 3. |

| | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .10 | .05 | .35 | .25 | .00 | .00 | .25 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .17 | .10 | .49 | .50 | .00 | .00 | .61 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NB./TOW | .00 | .33 | .50 | 1.50 | .75 | .00 | .00 | 1.17 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .58 | 1.00 | 2.12 | 1.50 | .00 | .00 | 2.86 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NB.PREC/TOW | .00 | .33 | .50 | 1.50 | .50 | .00 | .00 | .83 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .58 | 1.00 | 2.12 | 1.00 | .00 | .00 | 2.04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .30 | .10 | .23 | .33 | .00 | .00 | .21 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NB.TOWS | 1. | 3. | 4. | 2. | 4. | 4. | 2. | 6. | 5. | 0. | 0. | 0. | 0. | 0. | 0. |

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASON|SUMMER
SUMMARY BY DEPTH (M/10)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 2.96 | .79 | .06 | .43 | .11 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | 6.72 | 1.72 | .37 | 1.49 | .60 | .27 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | 6.79 | 1.41 | .13 | .29 | .04 | .03 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | 13.06 | 2.85 | .47 | .93 | .19 | .18 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | 2.17 | .62 | .11 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | 3.51 | 1.77 | .45 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .44 | .56 | .48 | 1.50 | 3.00 | 1.50 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 24. | 133. | 99. | 56. | 55. | 31. | 37. | 28. | 31. | 27. | 11. | 6. | 2. | 8. | 5. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 10. | 12. | 8. | 3. | 6. | 2. | 3. | 1. | 1. | 3. | 2. | 1. | 1. | 0. | 0. |

| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASON:SUMMER
SUMMARY BY BOT TEMP (C)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .02 | .01 | .15 | .18 | .72 |
| STD.DEV. | .47 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .05 | .69 | .58 | 1.44 |
| NO./TOW | .35 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .04 | .05 | .15 | .45 | .74 |
| STD.DEV. | 1.06 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .19 | .33 | .46 | 1.13 | 1.33 |
| NO.PREC/TOW | .12 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .04 | .32 | .36 |
| STD.DEV. | .49 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .33 | .20 | .87 | 1.11 |
| AVE.WT. | .43 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .50 | .15 | 1.00 | .39 | .97 |
| NO.TOWS | 17. | 0. | 0. | 1. | 39. | 55. | 48. | 41. | 57. | 52. | 28. | 37. | 26. | 38. | 37. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .38 | 1.09 | 3.31 | 2.62 | 3.32 | 3.64 | .17 | 1.90 | .00 | .22 | .28 | .03 | .18 | .00 | .00 |
| STD.DEV. | .77 | 2.00 | 7.60 | 2.56 | 3.16 | 2.51 | .29 | 2.97 | .00 | .46 | .60 | .10 | .30 | .00 | .00 |
| NO./TOW | .73 | .87 | 6.26 | 3.50 | 4.83 | 9.75 | 1.00 | 2.71 | .00 | .77 | 1.50 | .11 | 1.00 | .00 | .00 |
| STD.DEV. | 1.15 | 1.25 | 14.65 | 2.35 | 3.31 | 6.54 | 1.73 | 3.45 | .00 | 1.59 | 2.74 | .33 | 1.41 | .00 | .00 |
| NO.PREC/TOW | .45 | .13 | 1.37 | .33 | 1.83 | 4.25 | 1.00 | .86 | .00 | .62 | 1.17 | .11 | 1.00 | .00 | .00 |
| STD.DEV. | 1.01 | .35 | 3.73 | .52 | 2.14 | 5.15 | 1.73 | 1.86 | .00 | 1.26 | 1.94 | .33 | 1.41 | .00 | .00 |
| AVE.WT. | .52 | 1.25 | .53 | .75 | .69 | .37 | .17 | .70 | .00 | .29 | .19 | .30 | .18 | .00 | .00 |
| NO.TOWS | 22. | 15. | 19. | 6. | 6. | 8. | 3. | 7. | 10. | 13. | 6. | 9. | 5. | 0. | 0. |

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASONIAUTUMN
SUMMARY BY STRATUM

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 1.24 | .01 | .00 | .00 | 2.37 | .27 | .00 | .00 | 1.28 | .64 | .00 | .00 | .16 | .00 | .00 |
| STD.DEV. | 2.70 | .11 | .00 | .00 | 3.62 | .84 | .00 | .00 | 2.85 | 1.85 | .00 | .00 | .47 | .00 | .00 |
| NO./TOW | 1.14 | .02 | .00 | .00 | 1.60 | .17 | .00 | .00 | 1.09 | .41 | .00 | .00 | .13 | .00 | .00 |
| STD.DEV. | 2.58 | .13 | .00 | .00 | 2.33 | .53 | .00 | .00 | 2.22 | 1.27 | .00 | .00 | .38 | .00 | .00 |
| NO.PREC/TOW | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .27 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .13 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | 1.09 | .91 | .00 | .00 | 1.48 | 1.58 | .00 | .00 | 1.17 | 1.56 | .00 | .00 | 1.16 | .00 | .00 |
| NO.TOWS | 69. | 64. | 27. | 24. | 58. | 87. | 28. | 25. | 55. | 87. | 27. | 26. | 89. | 36. | 29. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .45 | .25 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | 1.41 | .86 | .00 | .00 | .00 | .00 | .29 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .39 | .13 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | 1.31 | .42 | .00 | .00 | .00 | .00 | .16 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | 1.15 | 1.92 | .00 | .00 | .00 | .00 | 1.81 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 122. | 43. | 27. | 92. | 62. | 43. | 41. | 57. | 76. | 38. | 69. | 36. | 64. | 81. | 27. |

| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 60. | 44. | 32. | 50. | 28. | 80. | 57. | 56. | 44. | 30. | 117. | 42. | 0. | 0. | 0. |

| | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 21. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .20 | .00 | .00 | .00 | 1.06 | .00 | .00 | .00 | 1.03 | .01 | .00 | .00 | 1.48 | .10 | .00 |
| STD.DEV. | .43 | .00 | .00 | .00 | 2.35 | .00 | .00 | .00 | 2.26 | .08 | .00 | .00 | 4.25 | .40 | .00 |
| NO./TOW | .86 | .00 | .00 | .00 | 2.36 | .00 | .00 | .00 | 1.48 | .03 | .00 | .00 | 1.98 | .13 | .00 |
| STD.DEV. | 1.55 | .00 | .00 | .00 | 4.60 | .00 | .00 | .00 | 3.24 | .17 | .00 | .00 | 5.46 | .46 | .00 |
| NO.PREC/TOW | .57 | .00 | .00 | .00 | 1.07 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .02 | .00 | .00 |
| STD.DEV. | 1.04 | .00 | .00 | .00 | 2.65 | .00 | .00 | .00 | .21 | .00 | .00 | .00 | .14 | .00 | .00 |
| AVE.WT. | .23 | .00 | .00 | .00 | .45 | .00 | .00 | .00 | .70 | .45 | .00 | .00 | .75 | .82 | .00 |
| NO.TOWS | 37. | 8. | 14. | 18. | 73. | 28. | 18. | 18. | 65. | 36. | 18. | 17. | 54. | 40. | 19. |

| | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 18. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 4.81 | 5.30 | 4.75 | 5.15 | 5.32 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 6.74 | 6.33 | 5.69 | 5.31 | 4.10 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 7.00 | 5.11 | 6.20 | 4.20 | 5.20 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 10.12 | 5.58 | 7.63 | 4.94 | 5.14 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .22 | .20 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .67 | .45 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .69 | 1.04 | .77 | 1.23 | 1.02 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 5. | 9. | 5. | 10. | 10. |

| | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 12.14 | 6.71 | 4.25 | 8.03 | 4.16 | 3.56 | 7.27 | 4.55 | 2.17 | 6.75 | 4.05 | 3.83 | 3.26 | 2.72 | 2.97 |
| STD.DEV. | 13.63 | 5.86 | 3.59 | 11.23 | 4.16 | 3.16 | 5.85 | 4.14 | 3.15 | .35 | 4.09 | 2.90 | 3.40 | 1.70 | 2.57 |
| NO./TOW | 20.50 | 11.58 | 4.83 | 15.00 | 5.60 | 3.58 | 7.67 | 5.82 | 2.62 | 7.60 | 4.67 | 5.17 | 3.00 | 4.09 | 3.33 |
| STD.DEV. | 21.92 | 11.17 | 3.64 | 23.43 | 6.95 | 2.54 | 6.11 | 5.55 | 3.69 | .71 | 3.92 | 3.97 | 2.00 | 2.30 | 3.39 |
| NO.PREC/TOW | 1.50 | 2.17 | .42 | 3.00 | .90 | .08 | .33 | .55 | .00 | 1.00 | .58 | .08 | .60 | .27 | .00 |
| STD.DEV. | 2.12 | 3.49 | 1.44 | 5.20 | 1.20 | .29 | .58 | 1.21 | .00 | 1.41 | 1.16 | .29 | .89 | .90 | .00 |
| AVE.WT. | .59 | .58 | .88 | .54 | .74 | .99 | .95 | .78 | .83 | .90 | .87 | .74 | 1.09 | .67 | .77 |
| NO.TOWS | 2. | 12. | 12. | 6. | 10. | 12. | 3. | 11. | 13. | 2. | 12. | 12. | 5. | 11. | 12. |

| | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 5.83 | 3.89 | 6.02 | 2.75 | 5.60 | 4.80 | 3.65 | 5.87 | 4.97 | 6.70 | 3.70 | 5.93 | 1.06 | 3.34 | 2.43 |
| STD.DEV. | 2.84 | 2.92 | 4.70 | 2.00 | 7.28 | 7.51 | 3.43 | 5.06 | 4.50 | 7.78 | 3.49 | 6.83 | .77 | 2.24 | 1.95 |
| NO./TOW | 10.75 | 6.55 | 9.70 | 5.20 | 8.55 | 6.10 | 7.60 | 12.55 | 10.27 | 16.60 | 12.33 | 13.30 | 3.00 | 10.73 | 4.70 |
| STD.DEV. | 6.45 | 5.22 | 7.83 | 4.21 | 9.69 | 8.82 | 7.13 | 10.56 | 8.95 | 16.32 | 12.50 | 15.68 | 1.58 | 5.85 | 3.37 |
| NO.PREC/TOW | 1.00 | .73 | .40 | .40 | .64 | .30 | 2.40 | 3.09 | 1.82 | 7.20 | 7.67 | 4.00 | 1.60 | 6.36 | 2.60 |
| STD.DEV. | 1.41 | .90 | 1.26 | .89 | 1.43 | .67 | 1.52 | 1.92 | 2.18 | 6.14 | 8.24 | 5.21 | .89 | 4.39 | 2.84 |
| AVE.WT. | .54 | .59 | .62 | .53 | .66 | .79 | .48 | .47 | .48 | .40 | .30 | .45 | .35 | .31 | .42 |
| NO.TOWS | 4. | 11. | 10. | 5. | 11. | 10. | 5. | 11. | 11. | 5. | 12. | 10. | 5. | 11. | 10. |

| | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 3.28 | 4.56 | 2.16 | 1.36 | 1.10 | .30 | .78 | 1.65 | .21 | .83 | .42 | .00 | .00 | .00 | .00 |
| STD.DEV. | 3.59 | 3.48 | 2.79 | .91 | 1.23 | .78 | 1.55 | 2.34 | .75 | 1.54 | .85 | .00 | .00 | .00 | .00 |
| NO./TOW | 16.50 | 14.00 | 5.00 | 4.00 | 6.50 | 1.00 | 3.25 | 4.30 | .54 | 1.00 | .25 | .00 | .00 | .00 | .00 |
| STD.DEV. | 22.11 | 14.79 | 5.38 | 3.24 | 9.11 | 1.71 | 5.85 | 5.36 | 1.45 | 1.55 | .50 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | 14.17 | 9.62 | 2.50 | 2.20 | 5.50 | .50 | 2.25 | 2.70 | .46 | .17 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | 22.21 | 13.79 | 2.65 | 2.49 | 8.71 | .67 | 3.86 | 3.23 | 1.20 | .41 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .20 | .33 | .43 | .34 | .17 | .30 | .24 | .38 | .39 | .83 | 1.70 | .00 | .00 | .00 | .00 |
| NO.TOWS | 6. | 13. | 12. | 5. | 10. | 12. | 4. | 10. | 13. | 6. | 4. | 0. | 0. | 0. | 0. |

| | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .15 | .00 | .00 | .00 | .20 | .23 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .21 | .00 | .00 | .00 | .00 | .40 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .50 | .00 | .00 | .00 | 1.00 | 1.33 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .71 | .00 | .00 | .00 | .00 | 2.31 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .50 | .00 | .00 | .00 | 1.00 | 1.33 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .71 | .00 | .00 | .00 | .00 | 2.31 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .30 | .00 | .00 | .00 | .20 | .17 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 2. | 2. | 2. | 2. | 2. | 3. |

| | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .40 | .43 | .00 | .40 | .00 | .06 | .20 | .45 | .20 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .57 | .49 | .00 | .57 | .00 | .13 | .00 | .61 | .45 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | 1.00 | 2.67 | .00 | .50 | .00 | .20 | 1.00 | 2.33 | .20 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | 1.41 | 2.89 | .00 | .71 | .00 | .45 | .00 | 3.20 | .45 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .50 | 2.67 | .00 | .00 | .00 | .20 | 1.00 | 2.33 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .71 | 2.89 | .00 | .00 | .00 | .45 | .00 | 3.20 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .40 | .16 | .00 | .80 | .00 | .30 | .20 | .19 | 1.00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 2. | 3. | 4. | 2. | 4. | 5. | 1. | 6. | 5. | 0. | 0. | 0. | 0. | 0. | 0. |

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASONIAUTUMN
SUMMARY BY DEPTH (M/10)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 1.22 | 3.07 | 3.02 | 1.95 | 1.16 | .46 | .19 | .08 | .08 | .00 | .01 | .03 | .00 | .00 | .00 |
| STD.DEV. | 2.10 | 3.78 | 4.63 | 3.33 | 2.92 | 1.90 | .77 | .40 | .44 | .00 | .13 | .25 | .00 | .00 | .00 |
| NO./TOW | 2.60 | 5.86 | 5.30 | 2.87 | 1.31 | .38 | .12 | .06 | .06 | .00 | .01 | .02 | .00 | .00 | .00 |
| STD.DEV. | 2.92 | 7.24 | 8.61 | 6.48 | 3.30 | 1.53 | .42 | .28 | .35 | .00 | .09 | .22 | .00 | .00 | .00 |
| NO.PREC/TOW | 1.24 | 2.02 | 1.46 | .73 | .12 | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | 1.94 | 3.90 | 4.74 | 3.94 | .69 | .20 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .47 | .52 | .57 | .68 | .89 | 1.22 | 1.64 | 1.43 | 1.19 | .00 | 1.40 | 1.13 | .00 | .00 | .00 |
| NO.TOWS | 25. | 176. | 249. | 220. | 251. | 208. | 226. | 163. | 202. | 195. | 123. | 85. | 102. | 92. | 91. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 81. | 75. | 80. | 78. | 77. | 73. | 63. | 40. | 33. | 28. | 24. | 13. | 26. | 17. | 7. |

| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 10. | 12. | 25. | 18. | 8. | 1. | 3. | 3. | 2. | 3. | 0. | 0. | 0. | 0. | 0. |

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASON:AUTUMN
SUMMARY BY BOT TEMP (C)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .23 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .04 | .09 | .20 | .39 | .62 | 1.89 |
| STD.DEV. | 1.32 | .00 | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .46 | .44 | .82 | 1.55 | 2.02 | 3.55 |
| NO./TOW | .44 | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .03 | .06 | .13 | .27 | .51 | 2.20 |
| STD.DEV. | 2.16 | .00 | .00 | .00 | .00 | .00 | .00 | .08 | .00 | .36 | .28 | .51 | 1.08 | 1.50 | 4.47 |
| NO.PREC/TOW | .14 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .03 | .17 |
| STD.DEV. | .99 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .12 | .24 | .63 |
| AVE.WT. | .64 | .00 | .00 | .00 | .00 | .00 | .00 | .25 | .00 | 1.21 | 1.37 | 1.51 | 1.43 | 1.22 | .86 |
| NO.TOWS | 90. | 1. | 3. | 9. | 57. | 143. | 254. | 333. | 335. | 304. | 294. | 258. | 258. | 172. | 140. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | 3.81 | 3.69 | 3.41 | 2.94 | 3.88 | 2.07 | .87 | .04 | 1.54 | .25 | .00 | .19 | .20 | .00 | .00 |
| STD.DEV. | 5.02 | 5.13 | 3.31 | 3.87 | 4.69 | 2.17 | 1.08 | .11 | 1.40 | .50 | .00 | .33 | .35 | .00 | .00 |
| NO./TOW | 5.71 | 6.01 | 5.47 | 5.93 | 8.24 | 5.21 | 3.85 | .25 | 4.00 | 1.56 | .00 | .70 | 1.00 | .00 | .00 |
| STD.DEV. | 7.88 | 10.34 | 5.50 | 9.09 | 9.29 | 8.78 | 4.70 | .46 | 3.61 | 2.65 | .00 | 1.34 | 1.73 | .00 | .00 |
| NO.PREC/TOW | .60 | 1.31 | 1.47 | 2.51 | 3.55 | 2.56 | 2.74 | .13 | 2.33 | 1.56 | .00 | .60 | 1.00 | .00 | .00 |
| STD.DEV. | 1.58 | 3.80 | 3.21 | 8.08 | 6.27 | 7.41 | 3.89 | .35 | 2.08 | 2.65 | .00 | 1.33 | 1.73 | .00 | .00 |
| AVE.WT. | .67 | .61 | .62 | .50 | .47 | .40 | .22 | .15 | .39 | .16 | .00 | .27 | .20 | .00 | .00 |
| NO.TOWS | 127. | 96. | 85. | 57. | 51. | 43. | 34. | 8. | 3. | 9. | 7. | 30. | 5. | 0. | 2. |

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASON:WINTER
SUMMARY BY STRATUM

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | 3.81 | .66 | .00 | .00 | .19 | 1.41 | .00 | .00 | .00 | 2.42 | .00 | .04 | .00 | .00 |
| STD.DEV. | .00 | 5.93 | 1.49 | .00 | .00 | .45 | 3.34 | .00 | .00 | .00 | 5.49 | .00 | .13 | .00 | .00 |
| NO./TOW | .00 | 2.90 | .56 | .00 | .00 | .17 | .67 | .00 | .00 | .00 | .67 | .00 | .08 | .00 | .00 |
| STD.DEV. | .00 | 4.48 | 1.01 | .00 | .00 | .39 | 1.32 | .00 | .00 | .00 | 1.21 | .00 | .29 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | 1.31 | 1.18 | .00 | .00 | 1.13 | 2.12 | .00 | .00 | .00 | 3.63 | .00 | .45 | .00 | .00 |
| NO.TOWS | 11. | 10. | 9. | 5. | 17. | 12. | 9. | 6. | 10. | 9. | 6. | 4. | 12. | 10. | 5. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 19. | 8. | 7. | 13. | 12. | 11. | 16. | 15. | 27. | 8. | 19. | 16. | 25. | 26. | 3. |

| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 18. | 17. | 13. | 16. | 12. | 28. | 20. | 24. | 12. | 14. | 4. | 2. | 0. | 0. | 0. |

| | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 2. | 3. | 2. | 2. | 3. |

| | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 1. | 2. | 4. | 2. | 2. | 6. | 2. | 2. | 4. | 2. | 2. | 6. | 2. | 5. | 6. |

| | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 1. | 4. | 3. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 2. | 1. | 0. | 0. | 0. | 0. |

| | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 2. | 0. | 0. |

| | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 5. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

| | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASON:WINTER
SUMMARY BY DEPTH (M/10)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .26 | .39 | .04 | 1.00 | .00 | .41 | .57 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.60 | 1.68 | .17 | 3.76 | .00 | 1.86 | 2.51 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .23 | .26 | .06 | .79 | .00 | .17 | .19 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.44 | 1.08 | .24 | 2.80 | .00 | .60 | .74 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 1.11 | 1.46 | .68 | 1.27 | .00 | 2.36 | 3.02 | .00 |
| NO.TOWS | 1. | 43. | 33. | 29. | 30. | 24. | 33. | 39. | 34. | 34. | 19. | 19. | 29. | 32. | 18. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .01 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .07 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .16 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .45 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 16. | 18. | 26. | 40. | 26. | 22. | 16. | 7. | 9. | 5. | 7. | 3. | 2. | 1. | 0. |

| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 1. | 0. | 1. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

SUMMER FLOUNDER BOTTOM TRAWL SURVEY CATCH PER TOW ANALYSIS-SEASONIWINTER
SUMMARY BY BOT TEMP (C)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .14 | .09 | .25 | .82 | .30 | 1.50 | .45 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .04 | 1.40 | .93 | 1.45 | 2.41 | 1.17 | 4.52 | .64 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .01 | .03 | .03 | .23 | .56 | .20 | 1.23 | .50 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .08 | .31 | .28 | 1.31 | 1.55 | .77 | 3.35 | .71 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .45 | 4.54 | 3.33 | 1.07 | 1.46 | 1.51 | 1.22 | .91 | .00 | .00 | .00 | .00 |
| NO.TOWS | 25. | 51. | 99. | 139. | 94. | 115. | 48. | 16. | 15. | 13. | 2. | 0. | 0. | 0. | 0. |

| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KG./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO./TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.PREC/TOW | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| STD.DEV. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| AVE.WT. | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| NO.TOWS | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

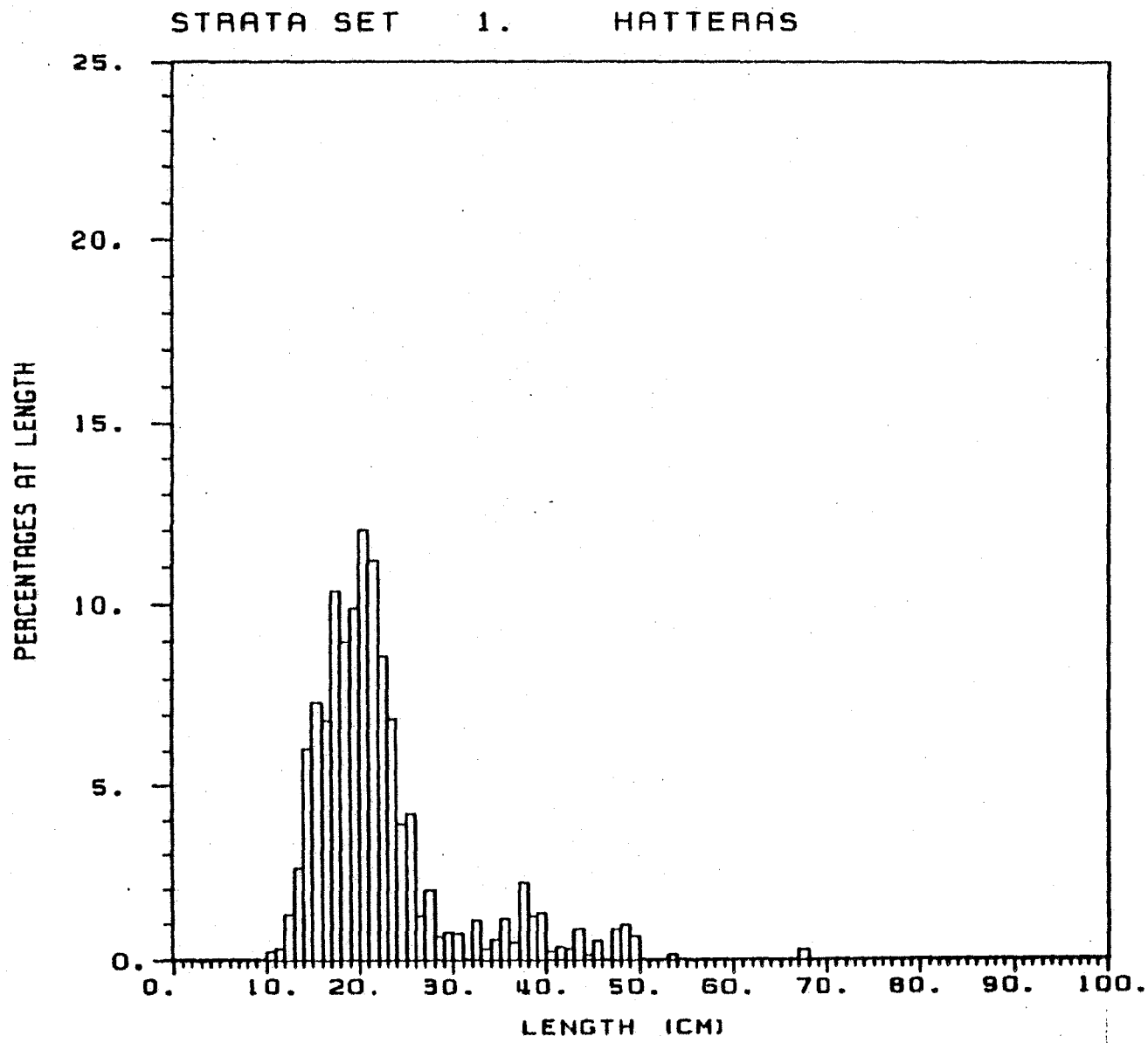
*STOP* 0

# APPENDIX 2

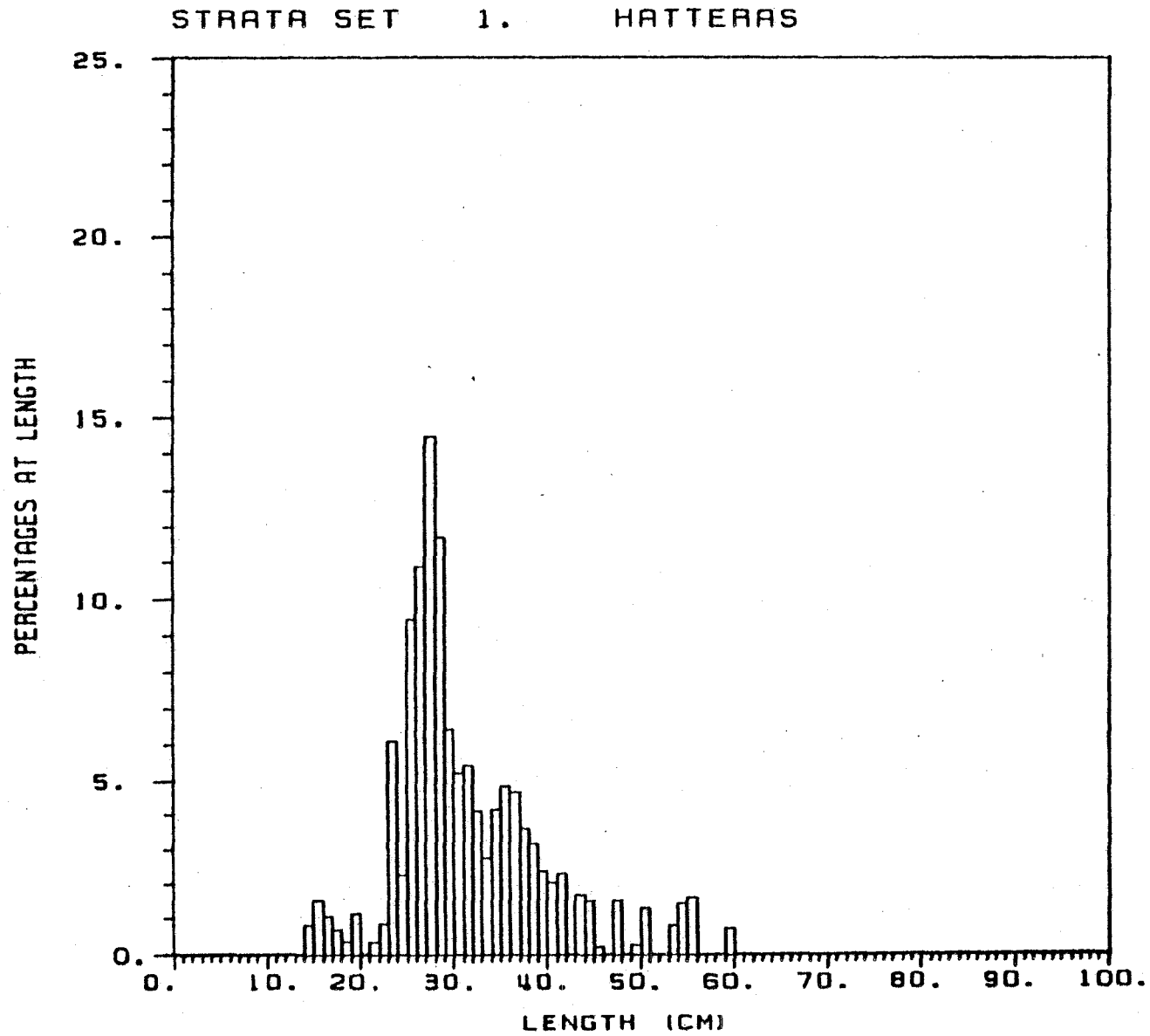
## LENGTH FREQUENCY HISTOGRAMS FOR STRATA SETS NORTH OF HATTERAS

The strata sets for each season are labelled as follows: Inshore- Hatteras, Mid-Atlantic, and So. New England; Offshore- Hatteras, Mid-Atlantic, and So. New England; and Deep Offshore- Hatteras D, Mid-Atlantic D, and So. New England D.

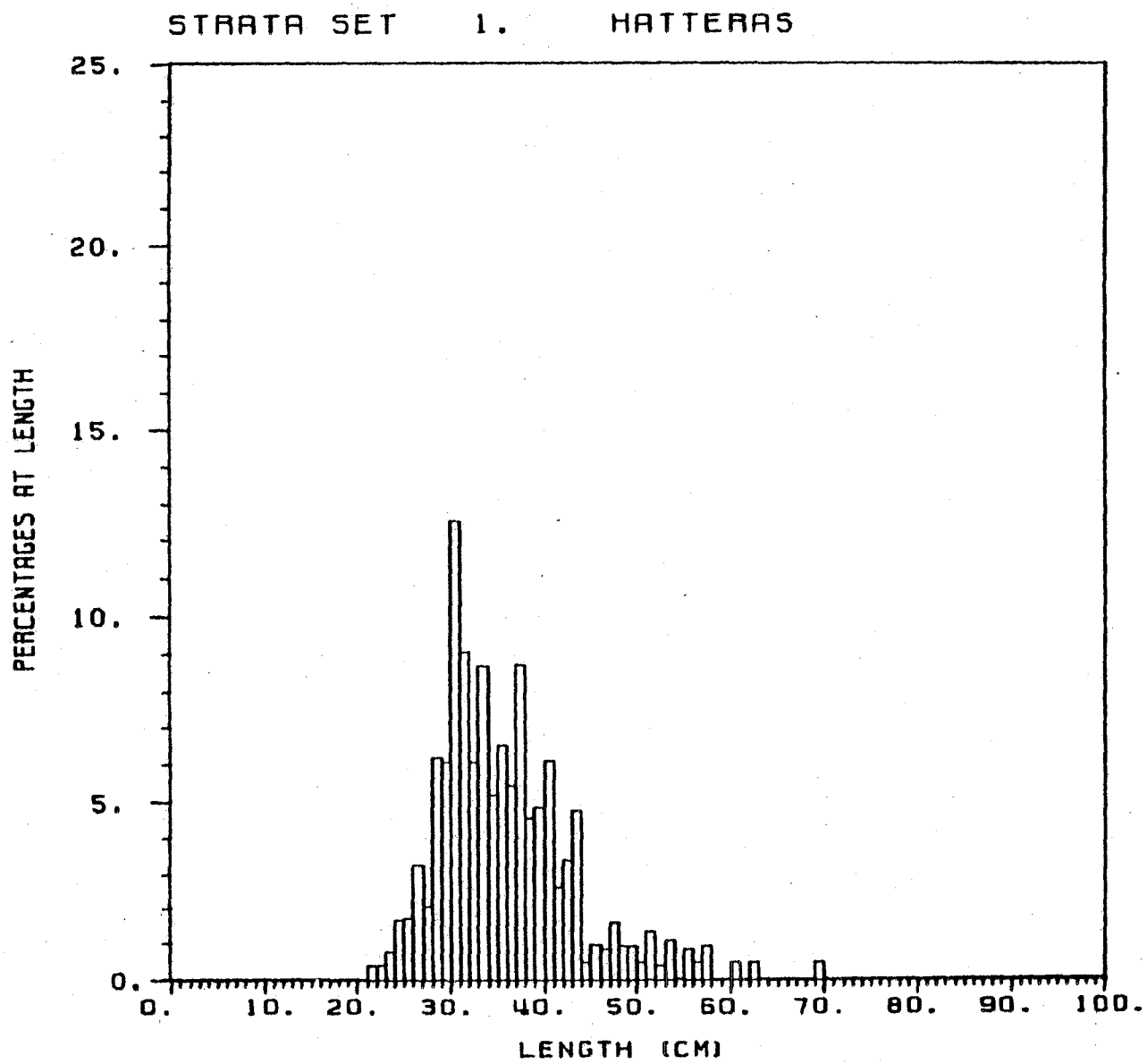
# SUMMER FLØUNDER LISTLENGTH HISTØGRAM FØR INSHØRE SPRING CRUISES; YEARS 76-79



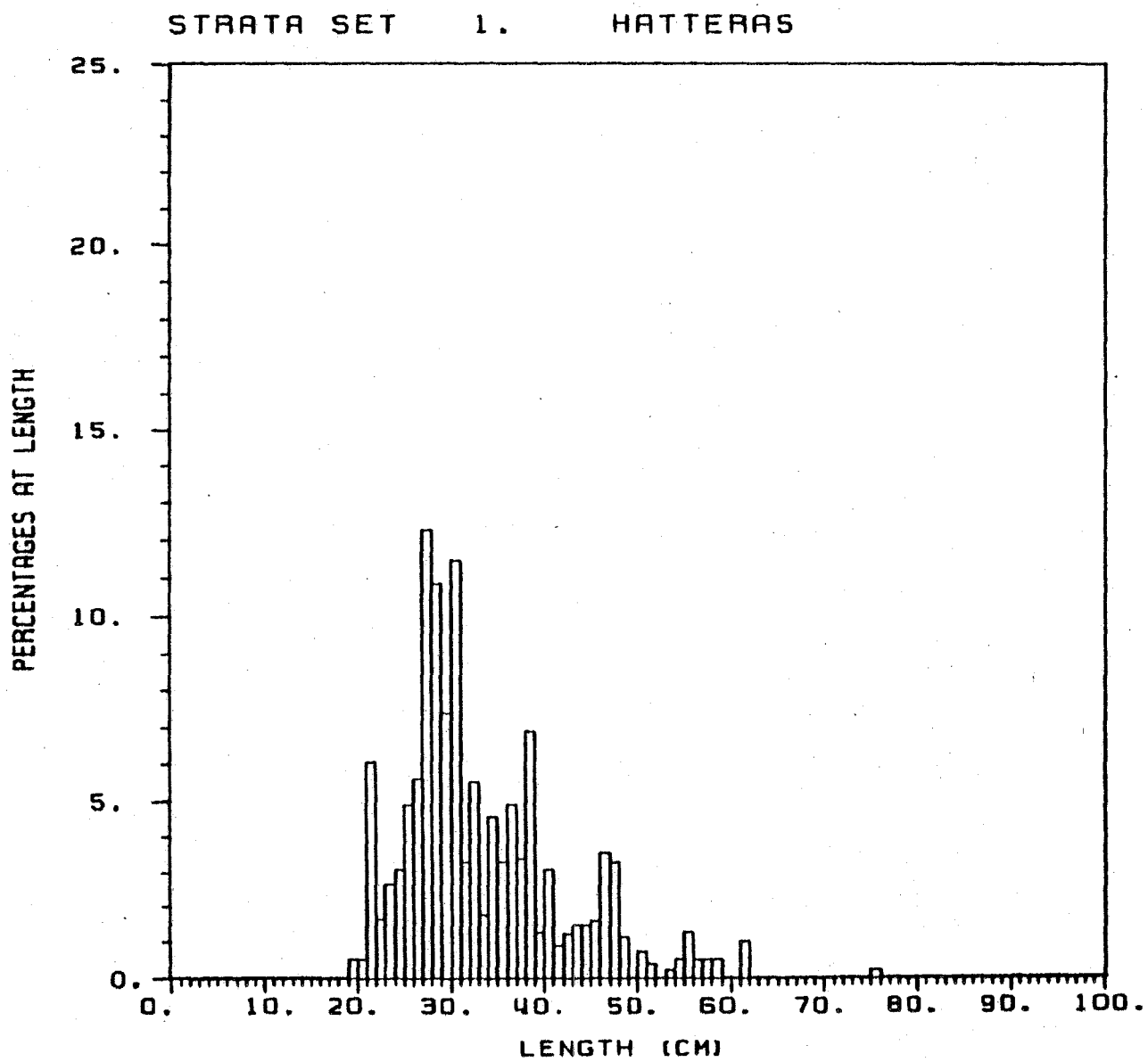
# SUMMER FLØUNDER LISTLENGTH HISTØGRAM FØR INSHØRE SUMMER CRUISES; YEARS 77-78



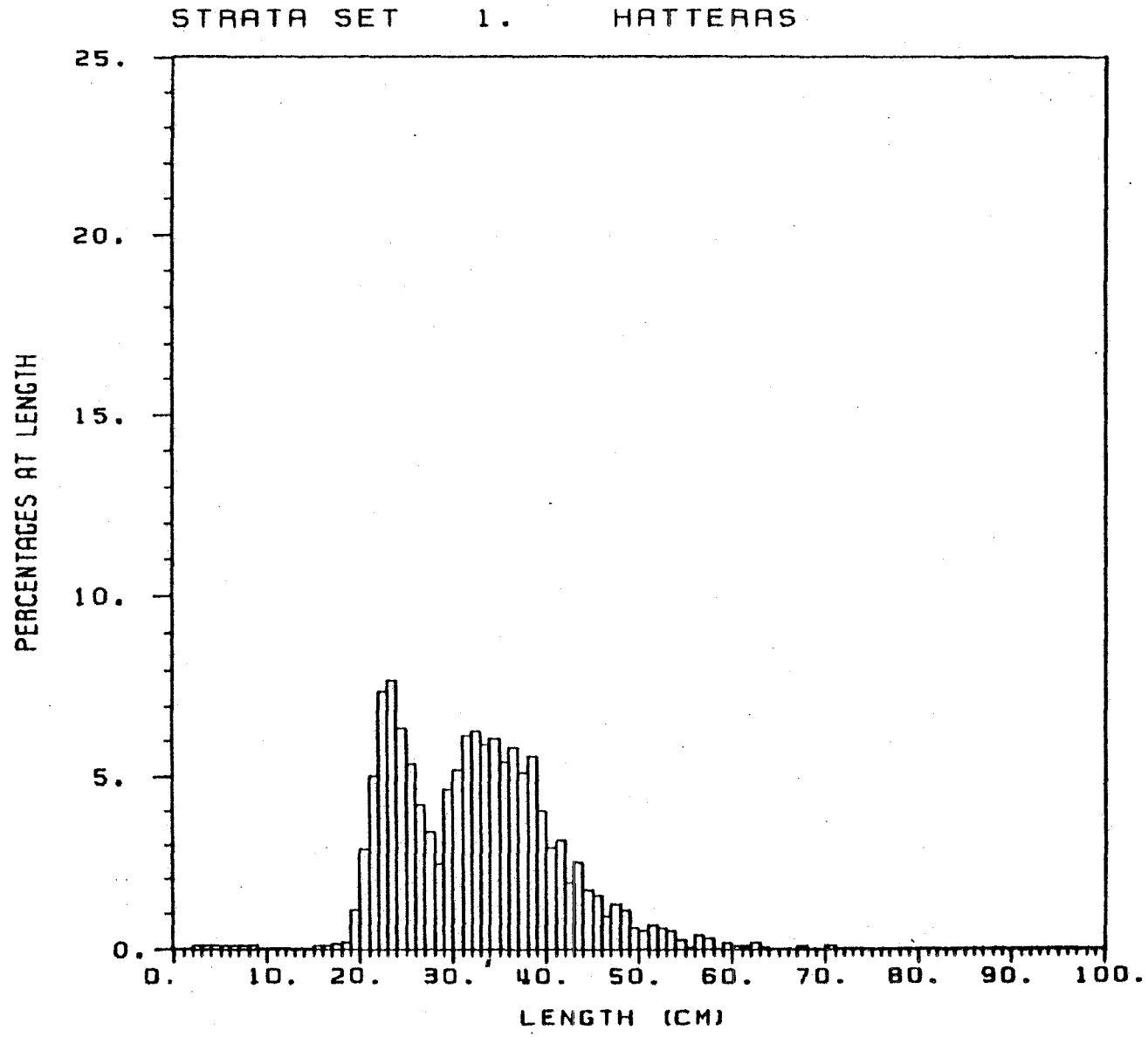
# SUMMER FLOUNDER LISTLENGTH HISTOGRAM FOR OFFSHORE AUTUMN CRUISES; YEARS 70-78



# SUMMER FLOUNDER LISTLENGTH HISTOGRAM FOR OFFSHORE SPRING CRUISES; YEARS 70-79

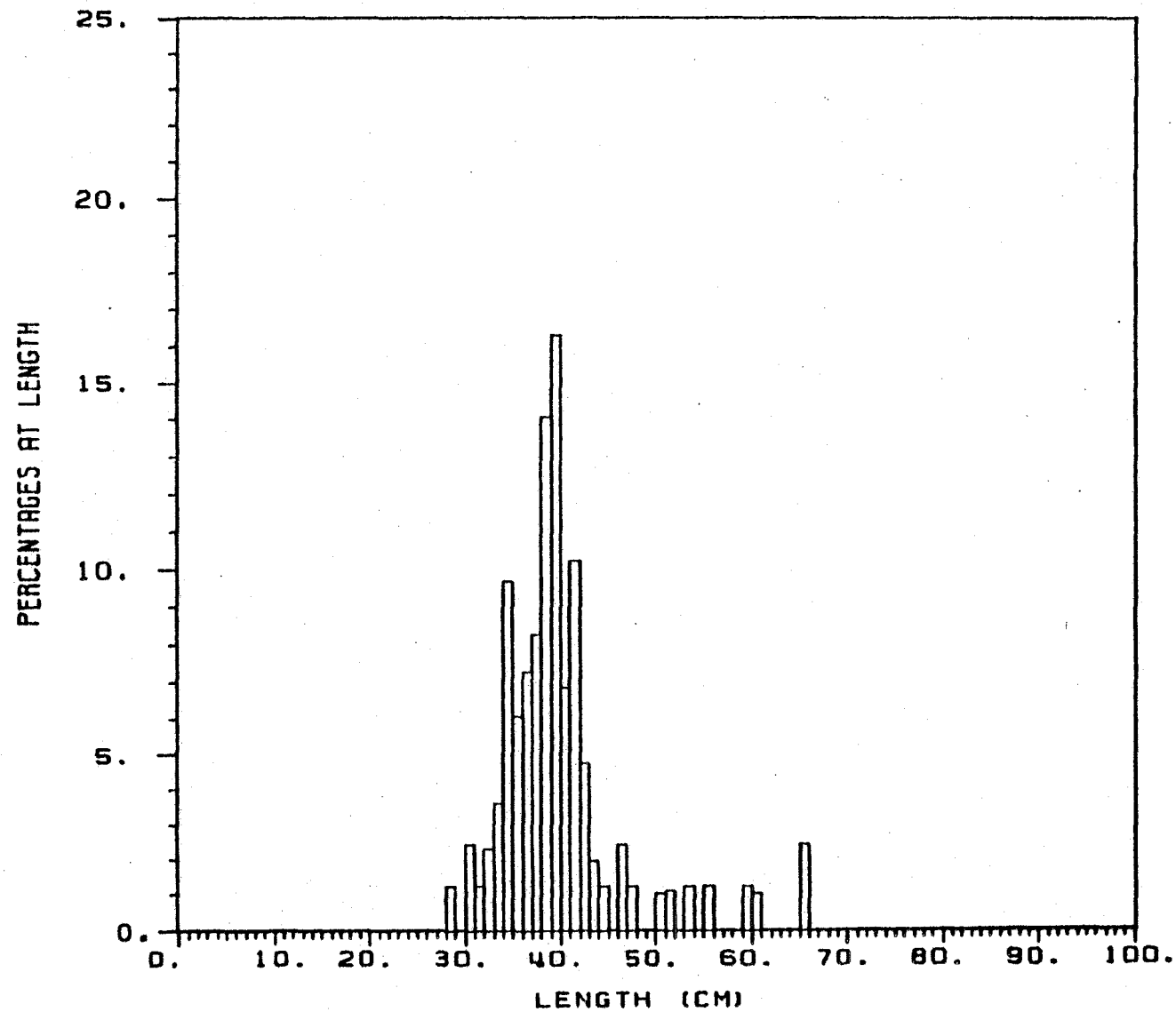


# SUMMER FLØUNDER LISTLENGTH HISTØGRAM FØR INSHØRE AUTUMN CRUISES; YEARS 74-78



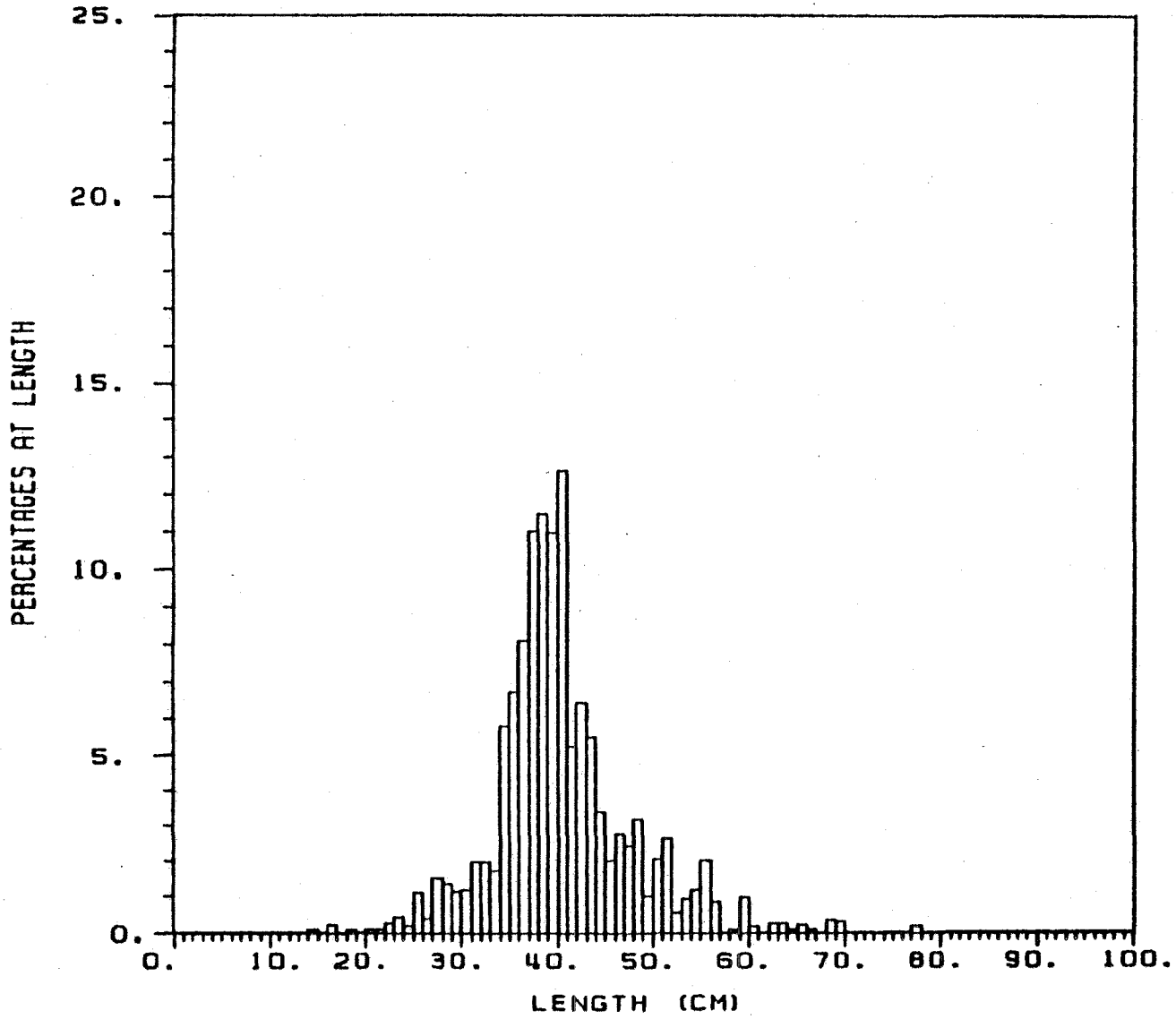
# SUMMER FLØUNDER LISTLENGTH HISTØGRAM FØR INSHØRE SUMMER CRUISES; YEARS 77-78

STRATA SET 2. MID-ATLANTIC

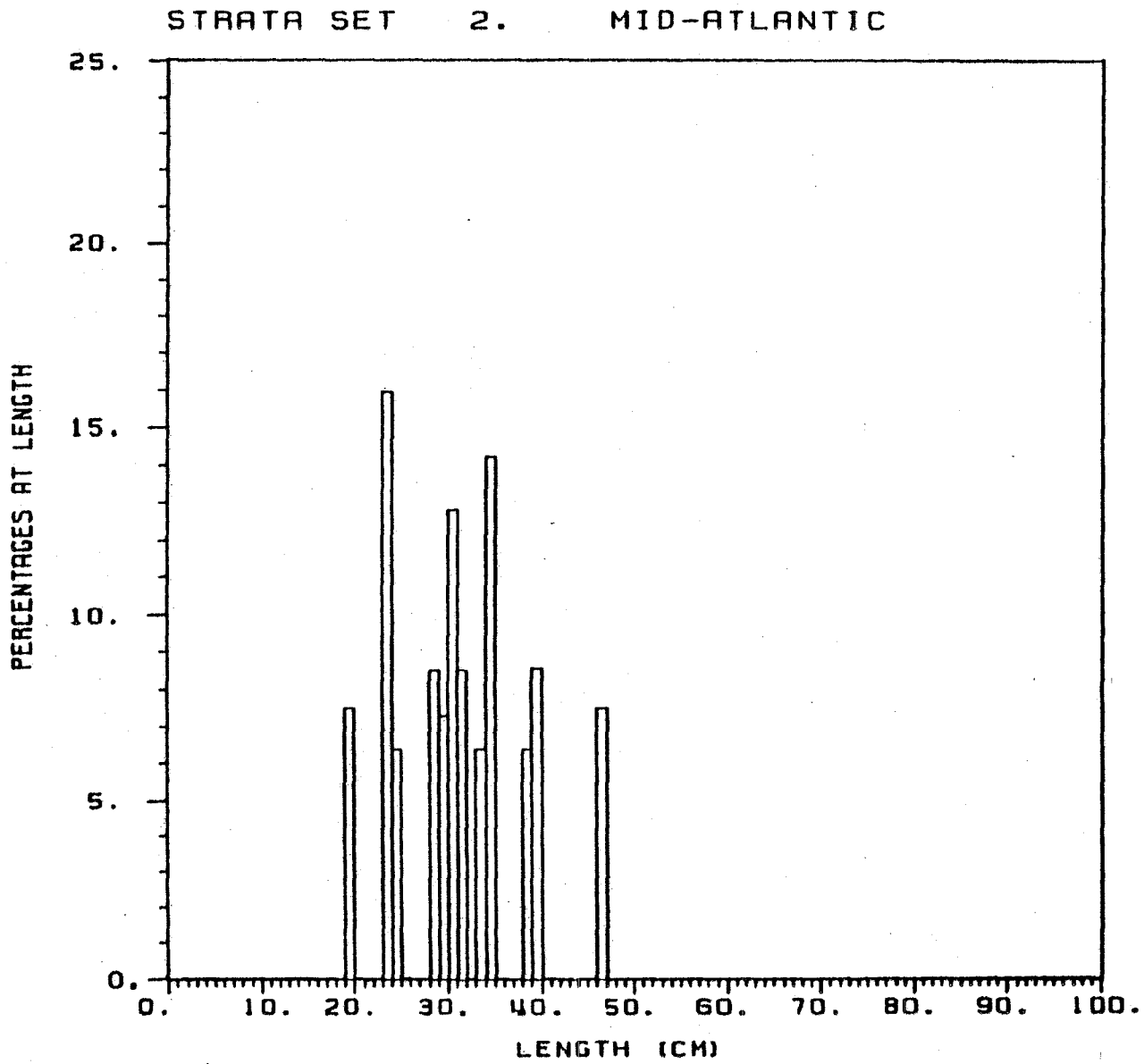


# SUMMER FLØUNDER LISTLENGTH HISTØGRAM FØR INSHØRE AUTUMN CRUISES; YEARS 74-78

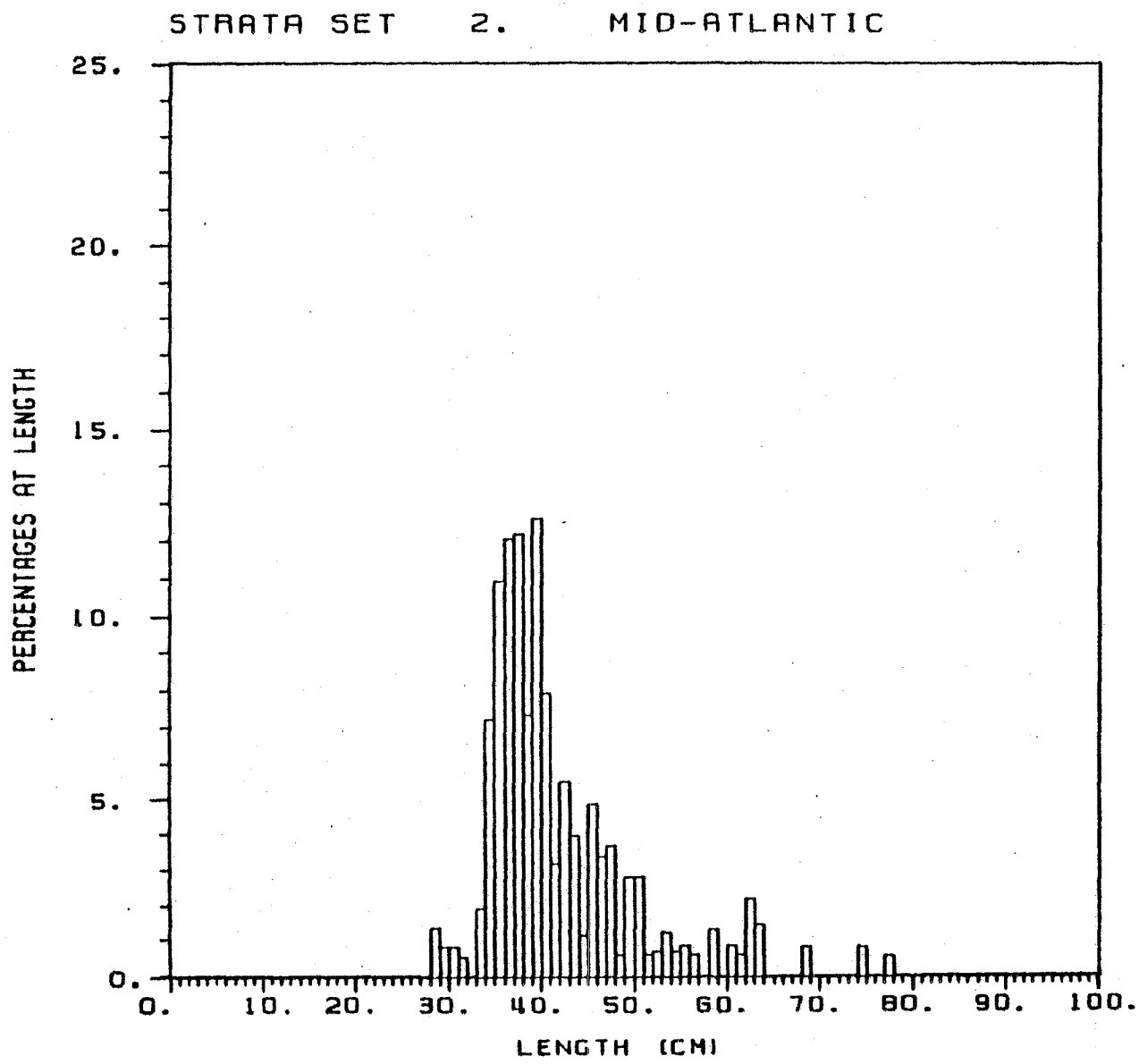
STRATA SET 2. MID-ATLANTIC



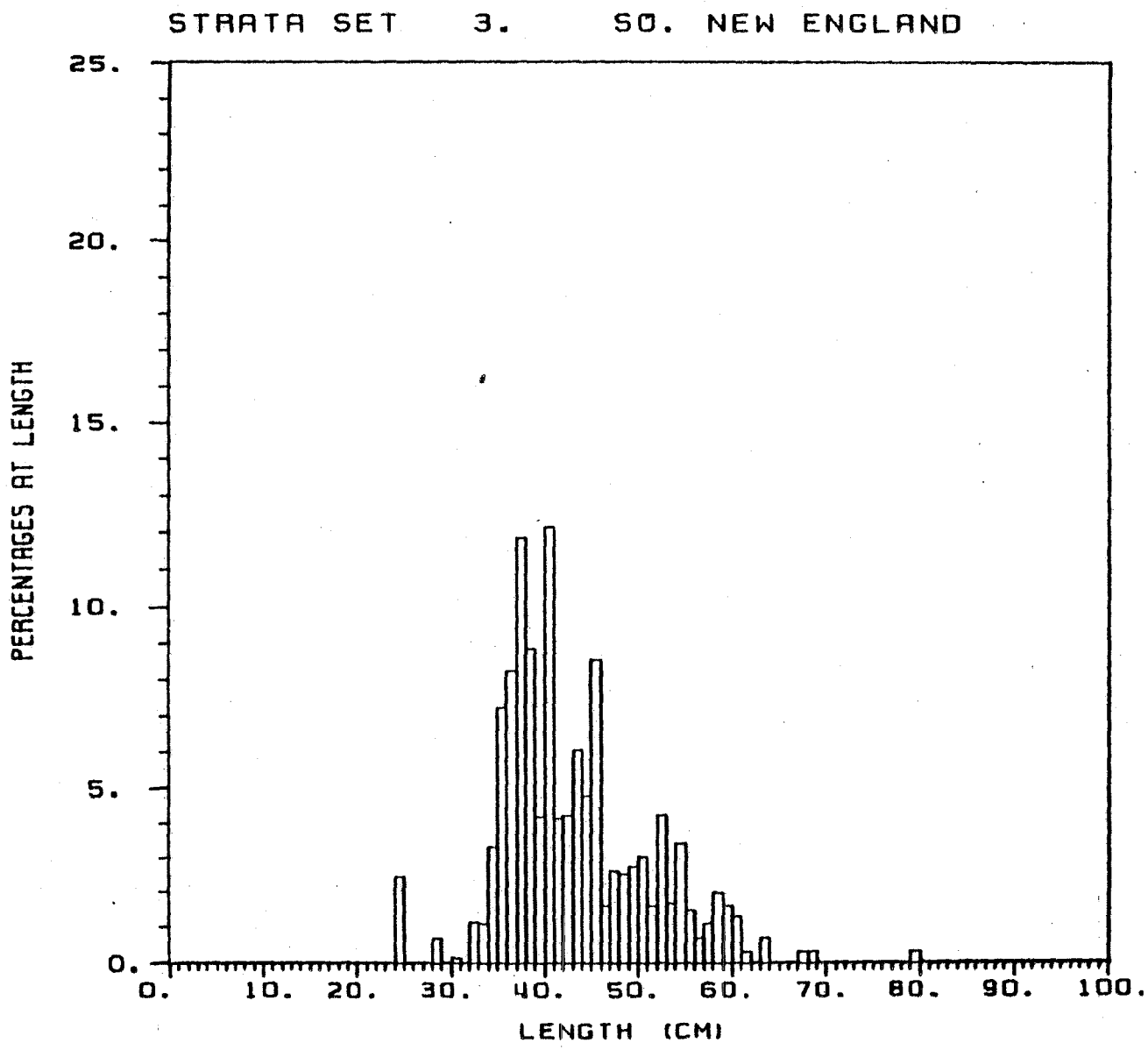
# SUMMER FLØUNDER LISTLENGTH HISTØGRAM FØR ØFFSHØRE SPRING CRUISES; YEARS 70-79



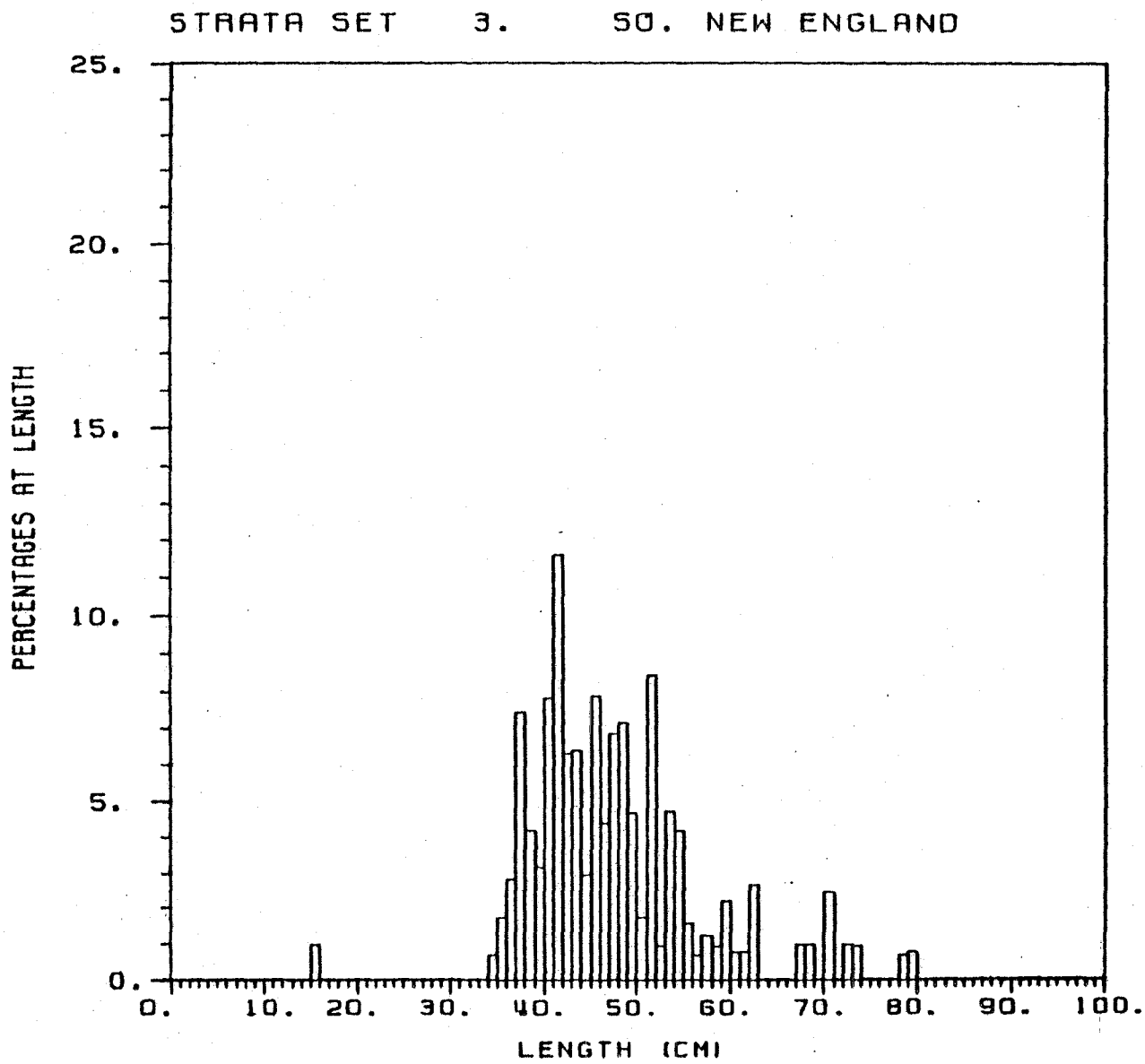
# SUMMER FLOUNDER LISTLENGTH HISTOGRAM FOR OFFSHORE AUTUMN CRUISES; YEARS 70-78



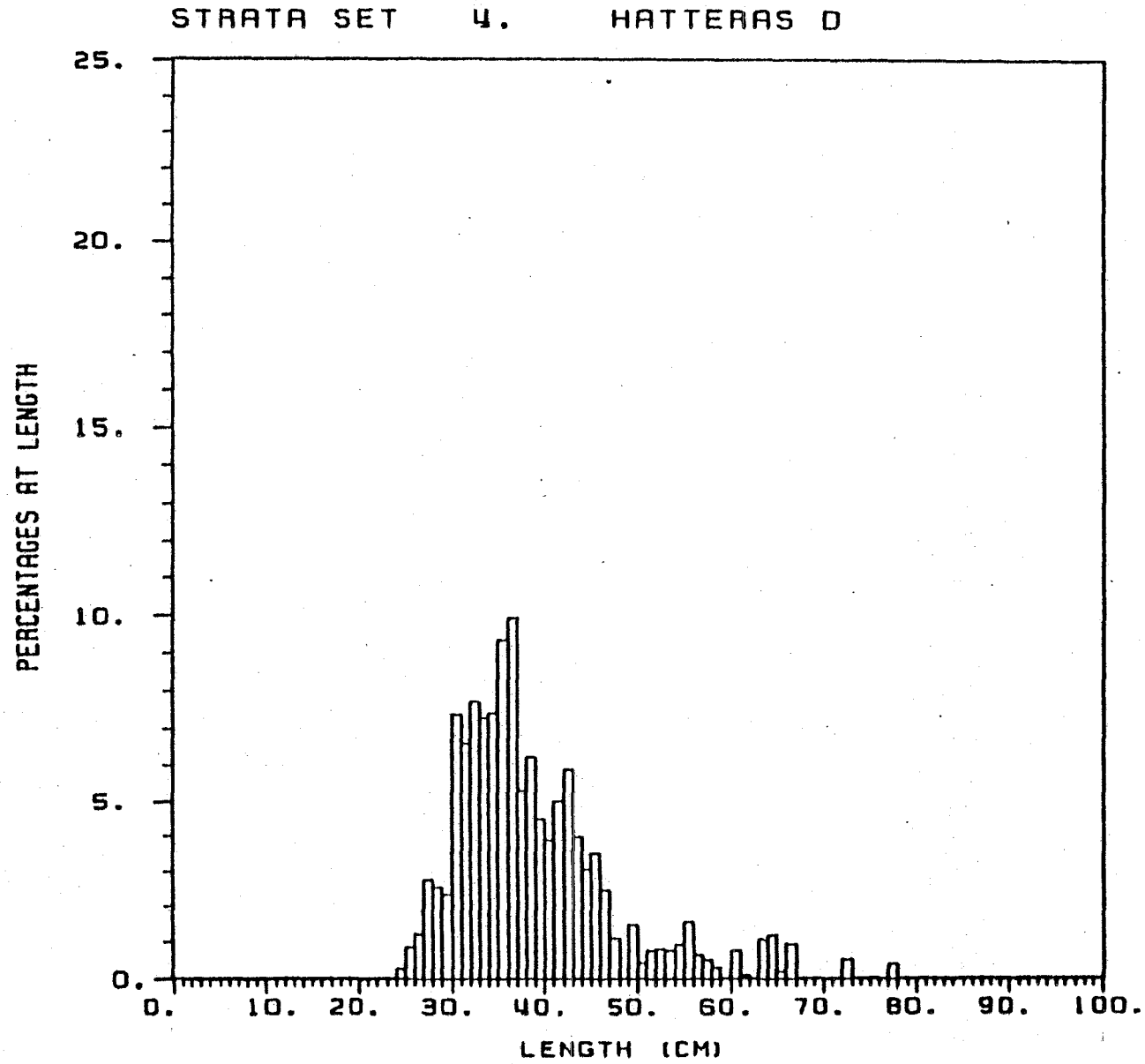
# SUMMER FLOUNDER LISTLENGTH HISTOGRAM FOR INSHORE AUTUMN CRUISES; YEARS 74-78



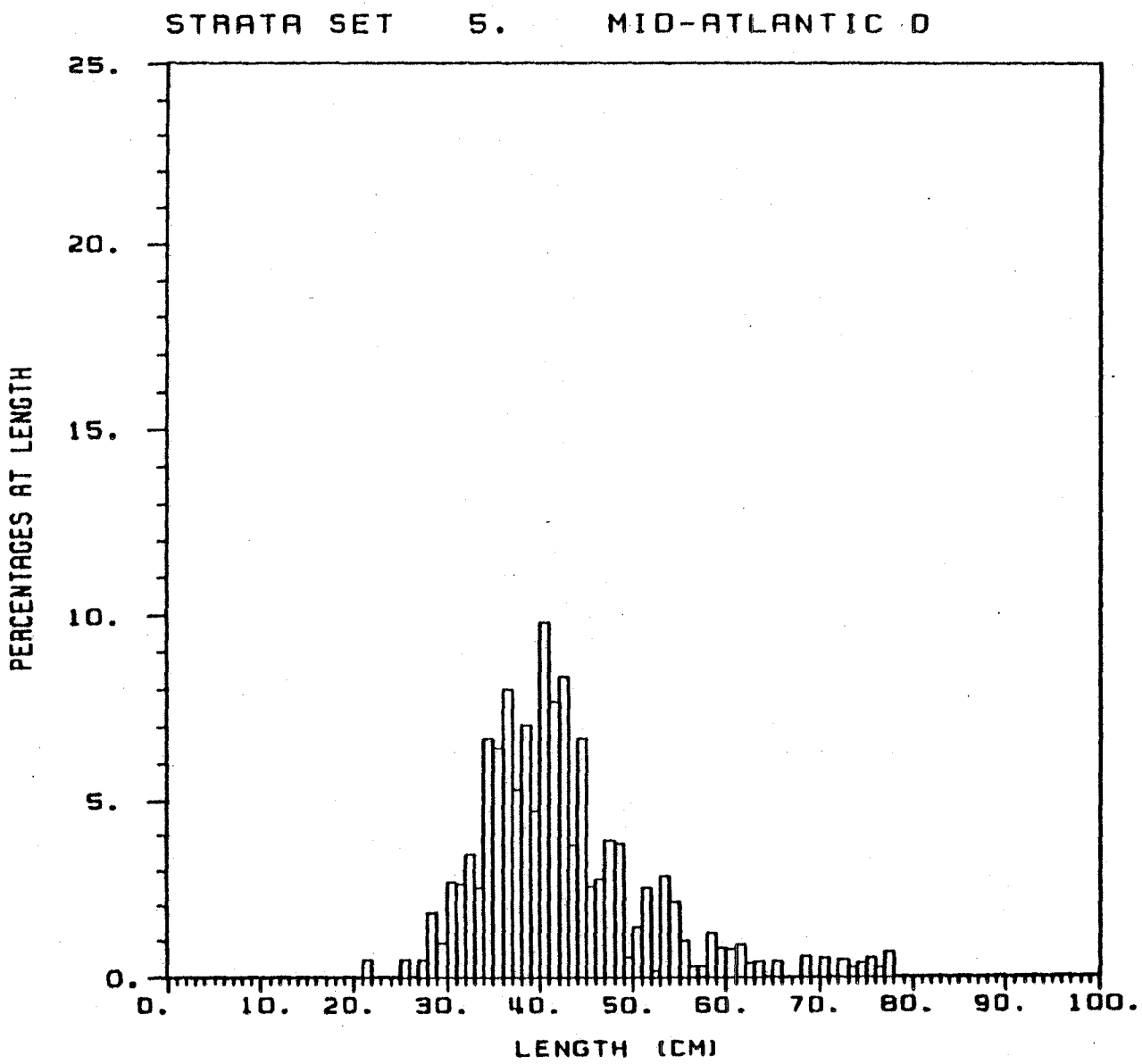
# SUMMER FLØUNDER LISTLENGTH HISTØGRAM FØR ØFFSHØRE AUTUMN CRUISES; YEARS 70-78



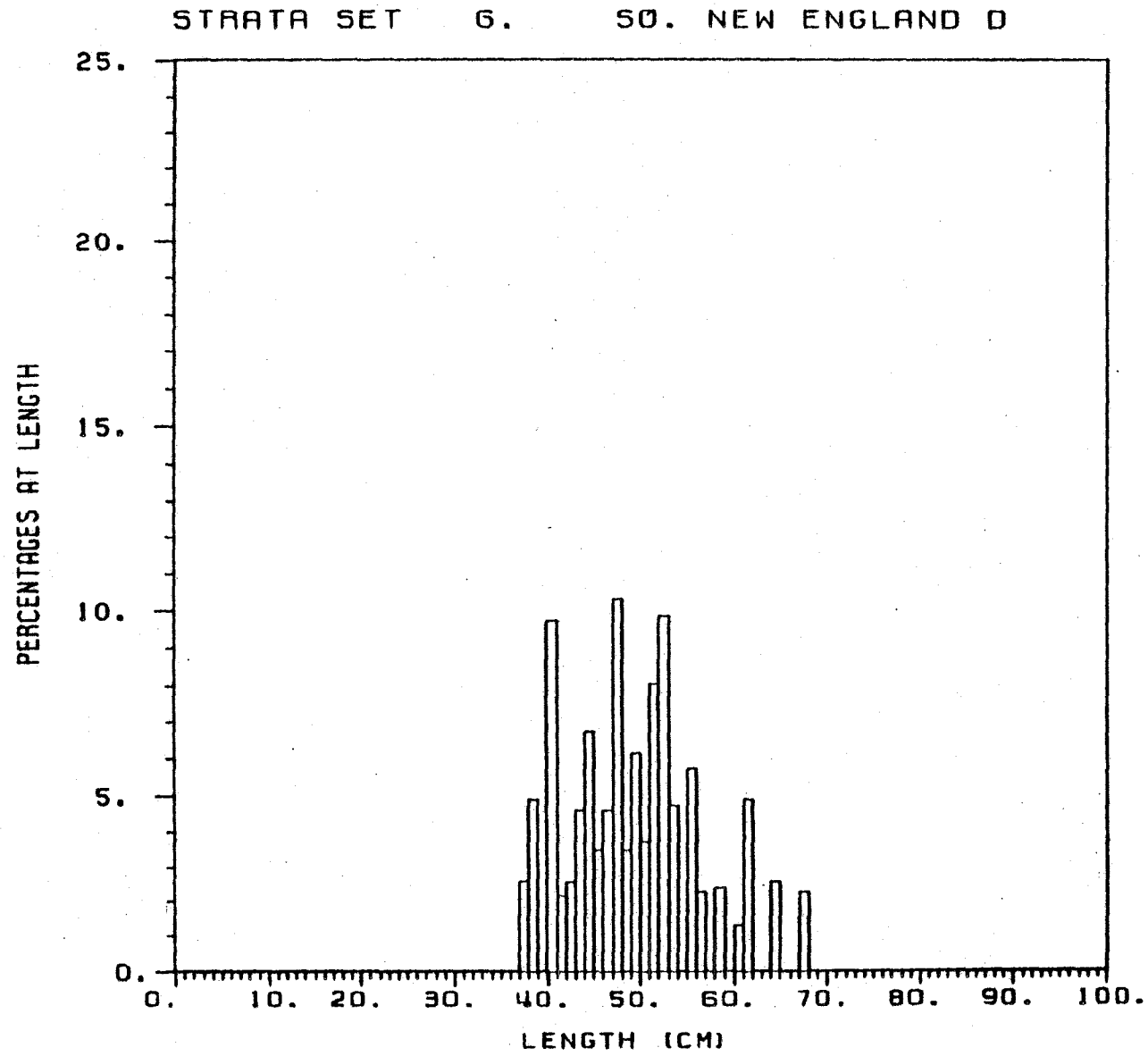
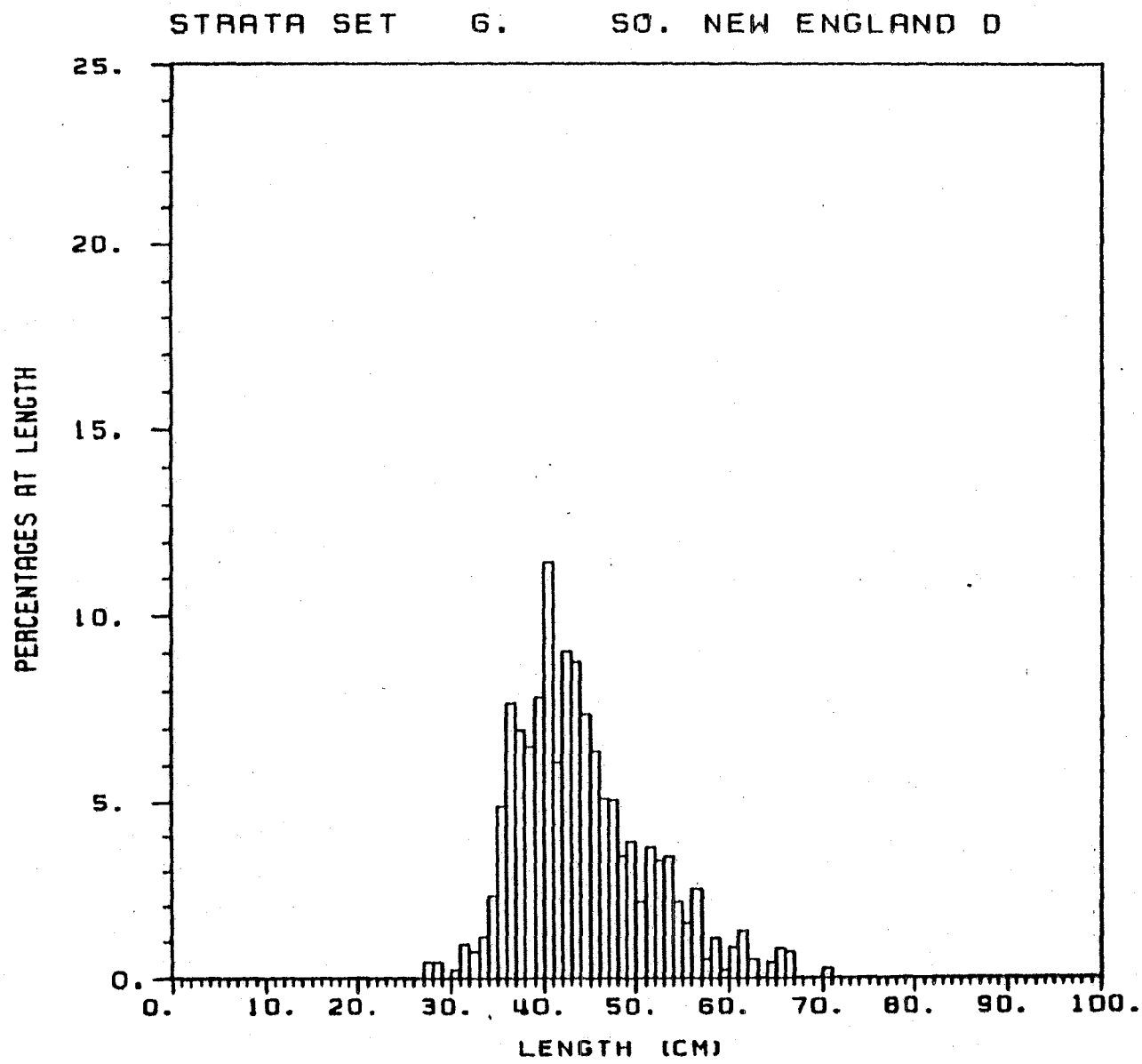
# SUMMER FLØUNDER LISTLENGTH HISTØGRAM FØR ØFFSHØRE SPRING CRUISES; YEARS 70-79



# SUMMER FLØUNDER LISTLENGTH HISTØGRAM FØR ØFFSHØRE SPRING CRUISES; YEARS 70-79



# SUMMER FLOUNDER LISTLENGTH HISTOGRAM FOR OFFSHORE AUTUMN CRUISES; YEARS 70-78



# SUMMER FLØUNDER LISTLENGTH HISTØGRAM FØR ØFFSHØRE SPRING CRUISES; YEARS 70-79