

1995/1996 - OYSTER DATA REPORT

**94/95 OYSTER PRODUCTION AND DENSITIES AND STOCK
ASSESSMENT FOR THE 1995-96 OYSTER SEASON ON LOUISIANA
PUBLIC OYSTER GROUNDS.**

PREPARED BY:

**RONALD J. DUGAS
ROBERT L. ANCELET**

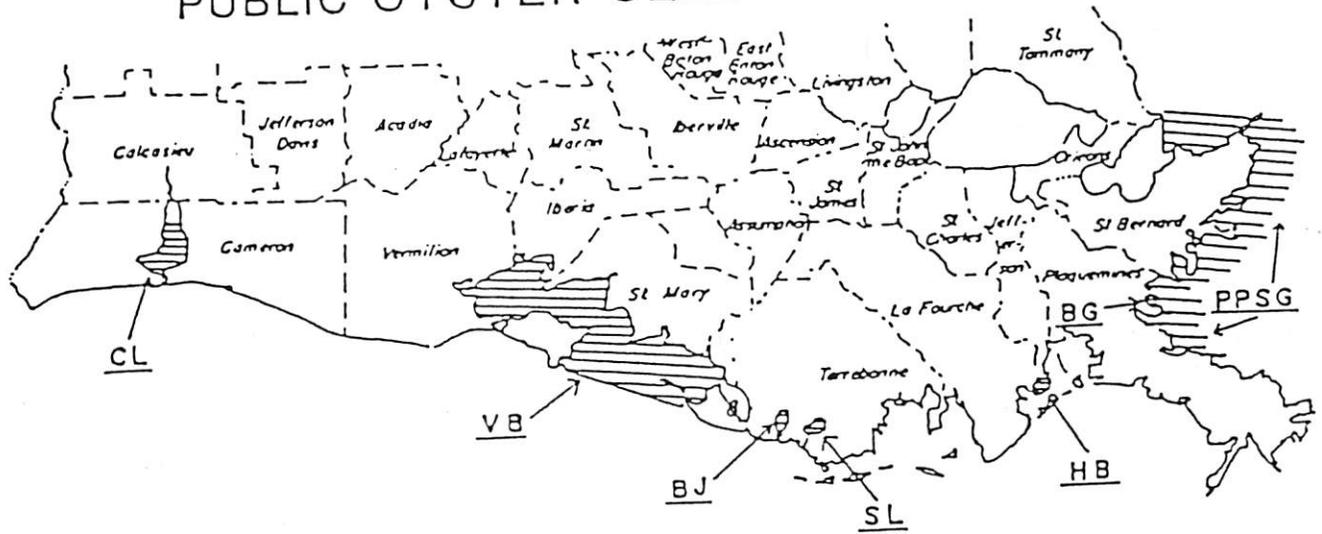
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES

AUGUST 1995

INTRODUCTION

In Louisiana, there are almost 2 million acres of public reef/seed grounds, although only a relatively small portion of this area has the hard bottom substrate necessary for the existence of oysters. These public reefs are opened each year in the fall and winter both to lessees who may wish to transplant oysters to their leases and to other fishermen who may wish to harvest oysters and bring them directly to market. Each year in the summer biological samples (Figure 3) are taken on these reefs and the results used to make recommendations as to opening and closing of areas to harvest and to advise the oyster industry on the availability of oysters on these reefs.

PUBLIC OYSTER SEED GROUNDS

**LEGEND**

- PPSG—PRIMARY OYSTER SEED GROUNDS
 BG—BAY GARDENE OYSTER SEED RESERVATION
 HB—HACKBERRY BAY OYSTER SEED RESERVATION
 SL—SISTER LAKE OYSTER SEED RESERVATION
 BJ—BAY JUNOP OYSTER SEED RESERVATION
 VB—VERMILION BAY OYSTER SEED GROUNDS
 CL—CALCASIEU LAKE PUBLIC TONGING GROUNDS

Figure 1. Louisiana Public Oyster Seed Grounds, Oyster Seed Reservation and Public Tonging Grounds.

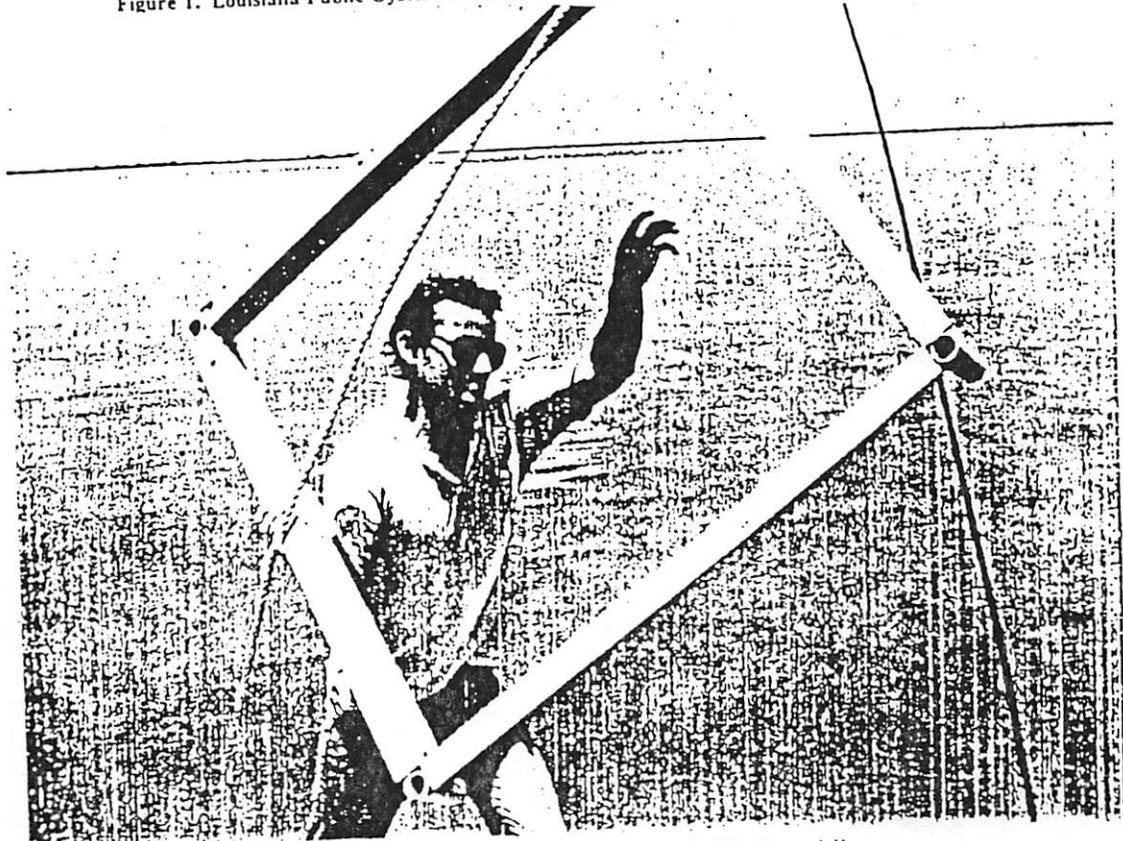


Figure 3. Meter square sampling for oyster densities on the "Public Grounds".

**1994/95 OYSTER PRODUCTION
PUBLIC OYSTER GROUNDS**

State of Louisiana



Joe L. Herring
Secretary

Department of Wildlife and Fisheries
400 Royal Street
New Orleans, LA 70130
(504) 568-5667

Edwin W. Edwards
Governor

August 24, 1994

M E M O R A N D U M

TO: Ron Dugas, Oyster Program Manager
FROM: Robert L. Ancelet, C.S.A. III
SUBJECT: 1994-95 Oyster Season Forecast

Results from our square meter samples show a general increase in oyster availability on the public seed grounds east of the Mississippi River.

Although, in Coastal Study Area I, a resource is apparent at Three Mile, Turkey Bayou, Grand Pass, and Cabbage Reef, the remainder of the area is devoid of seed and sack oysters. Salinities are too low from Halfmoon Island toward Lake Pontchartrain and too high at Martin and Holmes Islands. Salinity regimes from Three Mile to Cabbage Reef were favorable for set, survival, and growth as indicated by samples showing spat, seed oysters, and sack oysters. Another indication of an increasing population is the predominance of seed oysters at these stations (see meter square map).

The 1994 oyster stock assessment for Coastal Study Area I shows a dramatic increase of seed oysters, from 75,955 barrels in 1993 to 275,764 barrels in 1994, while sack oysters decreased from 233,311 barrels in 1993 to 146,166 in 1994 (see stock assessment tables).

In Coastal Study Area II, oyster availability has increased for the third consecutive year, an unprecedented reversal of the general trends observed since 1973 (note the bar graph of oyster availability). Oysters were found at all square meter sampling stations except for two: Battledore Reef and Bell Pass Bayou (see Area II 1994 square meter map and station map). Stations showing spat, seed oysters, and sack oysters are on the increase, while stations with more sack oysters than seed oysters together with no spat represent a declining population (see stations to the southeast and northwest of Pelican Point Island).

Memorandum
Ron Dugas
August 24, 1994

In Coastal Area II, two areas of major mussel infestation were identified during our recent square meter sampling effort. These two areas are represented by closures outlined by dashed lines on the 1994 square meter map.

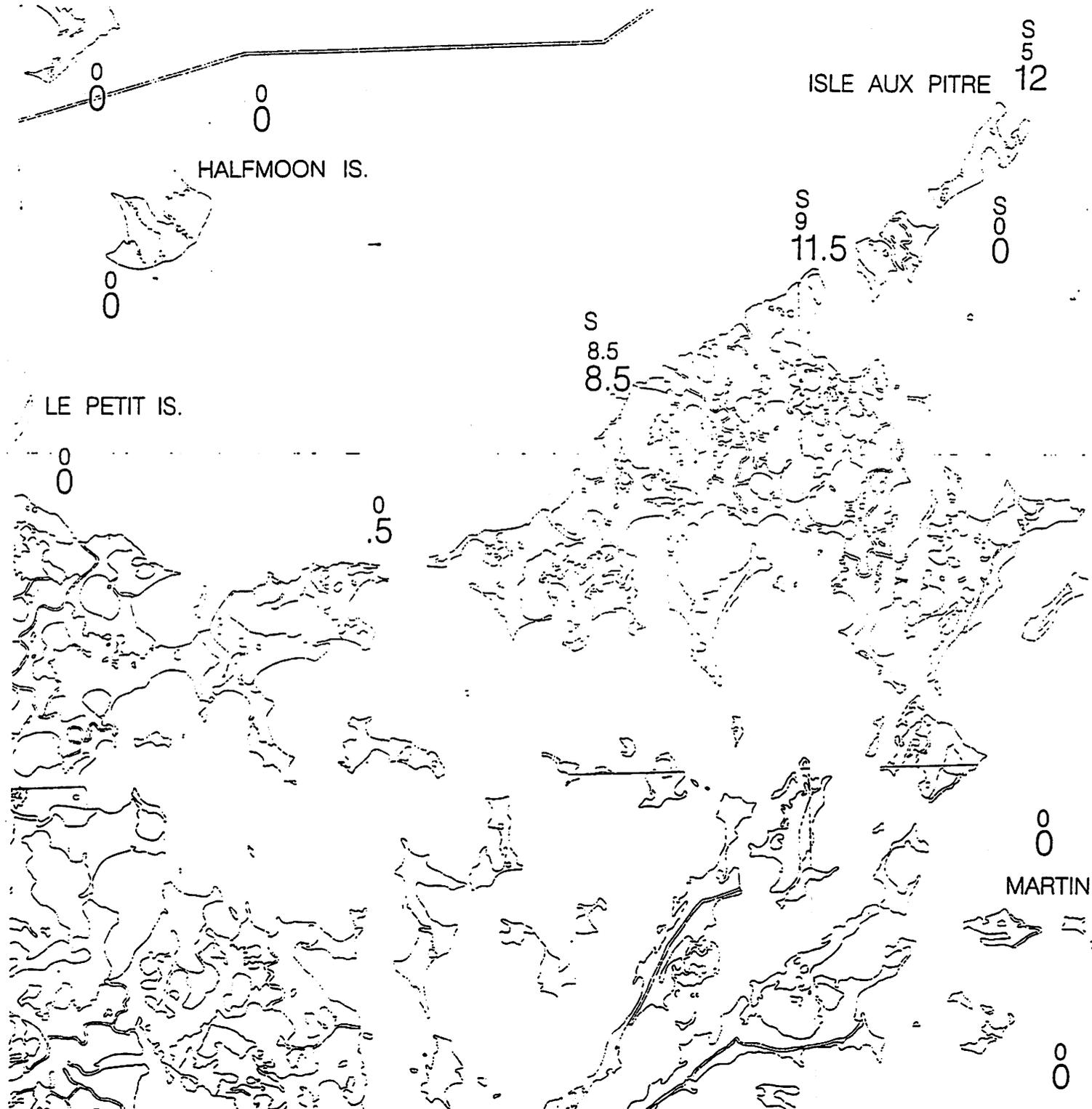
During the 1993-94 season in Coastal Study Area II, most of the bulk loaded oysters (small oysters) were produced in California Bay during the month of September. These loads were classified by use as seed oysters on the boarding reports (see grid 60 of the boarding report sheets, column graphs of seed oyster production by grid and by month). Sack oyster production was steady at 70,000 sacks per month from September, 1993 through February, 1994 (see column graph of sack oysters production by month). After February, 1994, production dropped sharply to 38,000 sacks per month. Most of the sack oysters were produced in grid 56 (see grid map and column graph of sack production by grid).

Grid 56, sustaining the greatest fishing pressure of 1993-94, showed no detrimental effects. Square meter sampling results currently show a greater resource in this grid than the same sampling of 1993 (see meter square maps of Area II 1993 vs. 1994). The oyster stock assessment for 1994 (see table) indicates an increase of an already sizable resource: 1,012,626 barrels of seed oysters and 1,034,749 barrels of sack oysters or 2,069,498 sacks of oysters.

Hackberry Bay and Vermilion Bay public reefs have no available resources. Hackberry Bay will be closed and Vermilion Bay will have little to offer.

Sister lake (Caillou Lake) is recovering from the losses sustained during Hurricane Andrew (see Caillou Lake square meter maps). Along with this recovery as a result of the resuspension of sediment overburdens, recent cultch plantings should bring production back to its potential. A recent stock assessment shows 358,455 barrels of seed oysters and 50,429 barrels of sack oysters.

RLA/plh
attachments



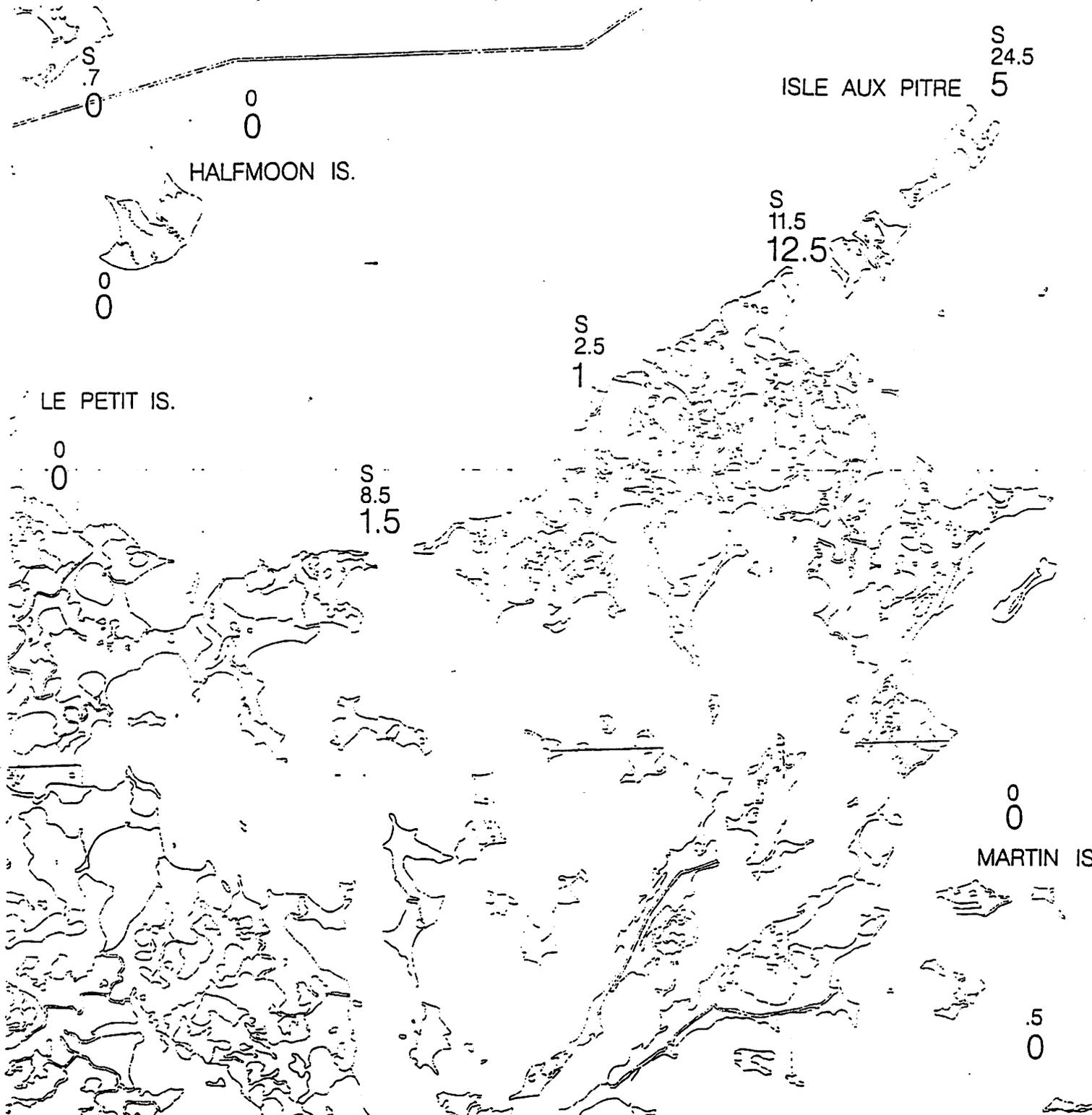
HALFMOON IS.

LE PETIT IS.

ISLE AUX PITRE

MARTIN IS.

AREA I
M² 1993
S = SPAT
SEED
SACK



AREA I
M² 1994
S = SPAT -
SEED
SACK

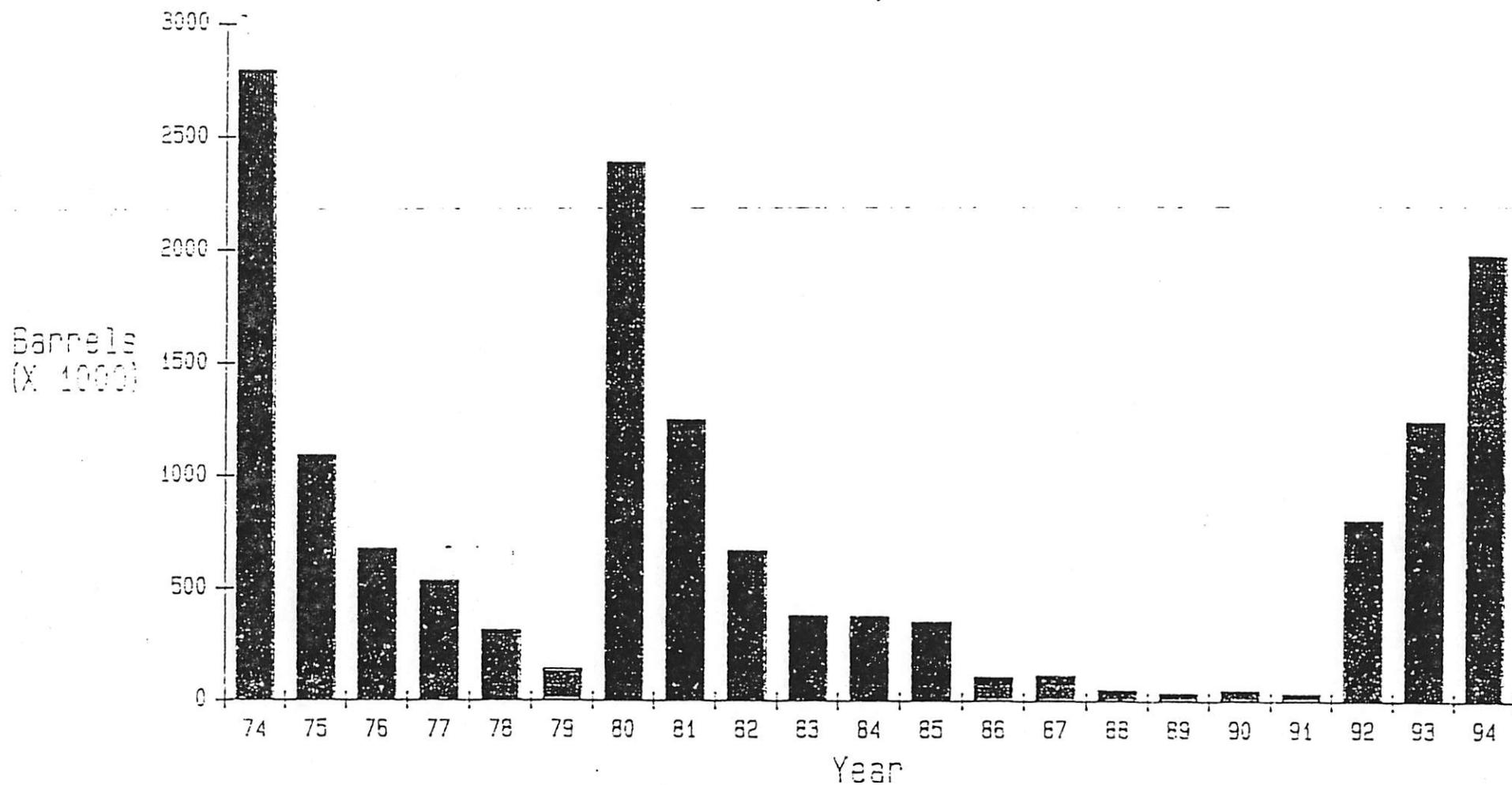
1993 COASTAL STUDY AREA I OYSTER AVAILABILITY

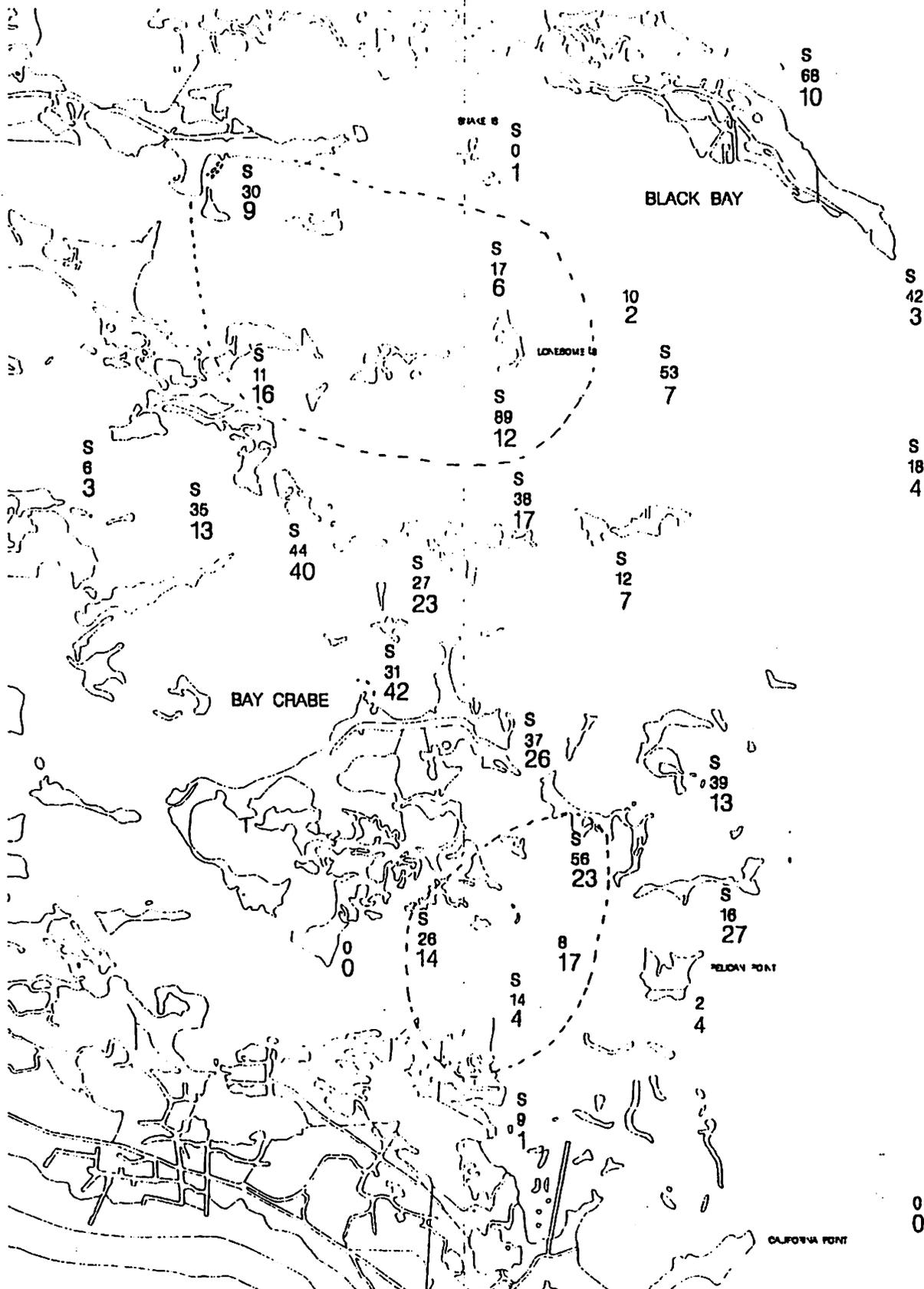
Meter ² Station	Reef Acreage	# Meter ²	#Seed Oyster	#Sack Oyster	BBLS Seed	BBLS Sack
001	376.07	1,521,955.29	0	0	0	0
002		-	0	0		
003			0	0		
004			0	0		
002-004	6850.17	27,722,638.00	0	0	0	0
005	3058.65	12,378,356.55	0	.5	0	17,192.0
006			9.0	11.5		
007			5.0	12.0		
008			N/A	N/A		
011			8.5	8.5		
006-011	1801.76	7,291,722.72	7.5	10.67	75,955	216,119
009			0	0	0	0
010			0	0	0	0
009-010	4155.70	16,818,117.90	0	0	0	0
Lake Pont.	631.27	2,554,749.69	N/A	N/A	0	0
ELO1	2691.84	10,893,876.48	N/A	N/A	0	0
TOTALS					75,955	233,311

1994 COASTAL STUDY AREA I OYSTER AVAILABILITY

Meter ² Station	Reef Acreage	# Meter ²	#Seed Oyster	#Sack Oyster	BBLS Seed	BBLS Sack
001	376.07	1,521,955.29	0	0	0	0
002			0	0		
003			0	0		
004			0	0		
002-004	6850.17	27,722,638.00	0	0	0	0
005	3058.65	12,378,356.55	8.5	1.5	146,133	51,576
006			11.5	12.5		
007			24.5	.5		
008			N/A	N/A		
011			2.5	1.0		
006-011	1801.76	7,291,722.72	12.8	4.67	129,631	94,590
009			0	0	0	0
010			0	0	0	0
009-010	4155.70	16,818,117.90	0	0	0	0
Lake Pont.	631.27	2,554,749.69	N/A	N/A	0	0
ELO1	2691.84	10,893,876.48	N/A	N/A	0	0
TOTALS					275,764	146,166

Oysters Available on the Public Grounds
East of the Mississippi River
- (Seed and Sack Oysters Combined)



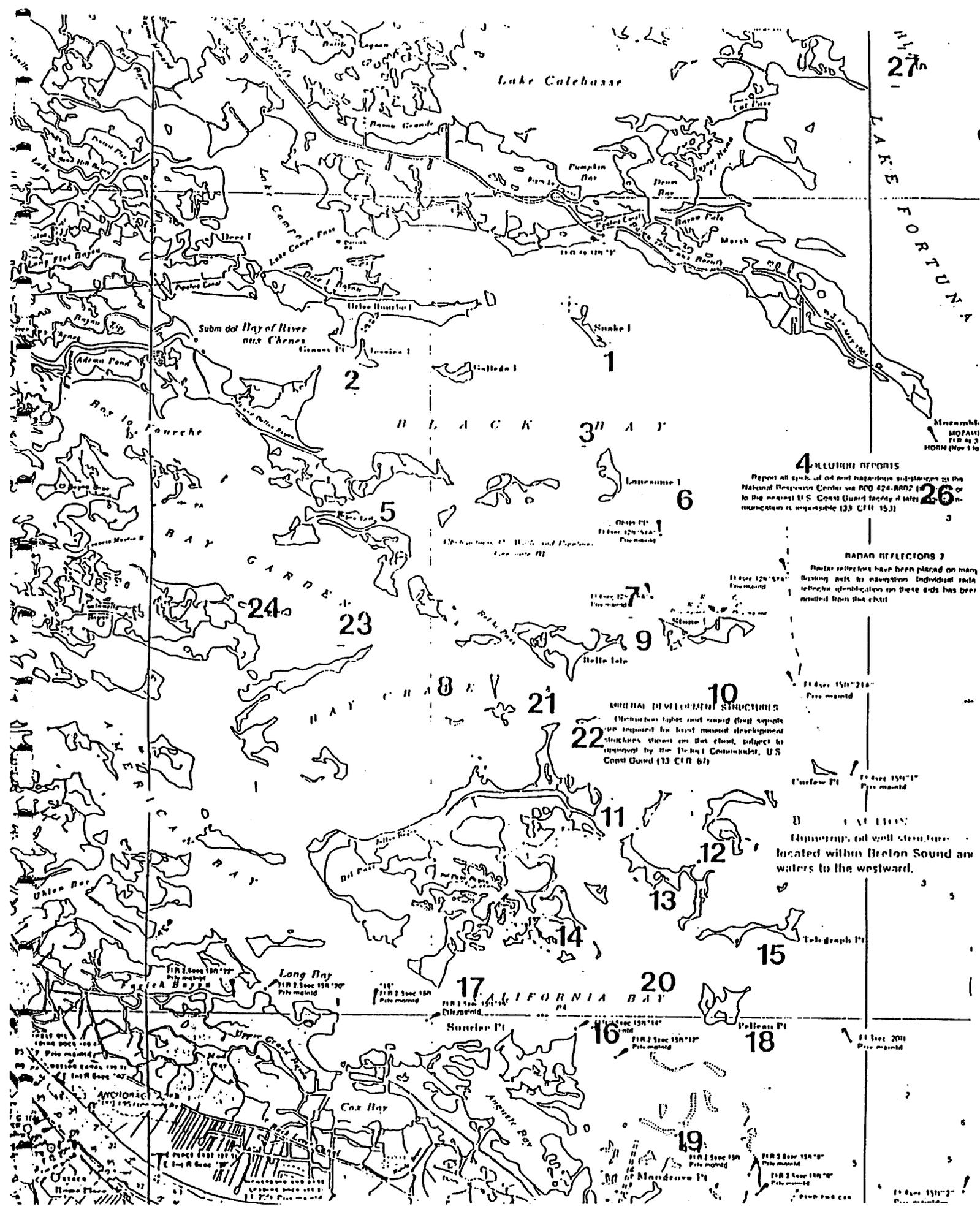


AREA II
 1994 M
 S= SPAT
 SEED
 SACK

CALIFORNIA POINT

00

Figure 5. Locations of the 27 Square Meter Sampling Stations.



27

LAKE FORTUNA

4 ILLUMINATE REPORTS
 Report all spills of oil and hazardous substances to the National Response Center via 800 424-8802 or in the nearest U.S. Coast Guard facility if later communication is impossible (33 CFR 15.3)

26

5 RADAR REFLECTORS
 Radar reflectors have been placed on many buoys out to navigation. Individual radio reflector identifications on these aids has been omitted from the chart.

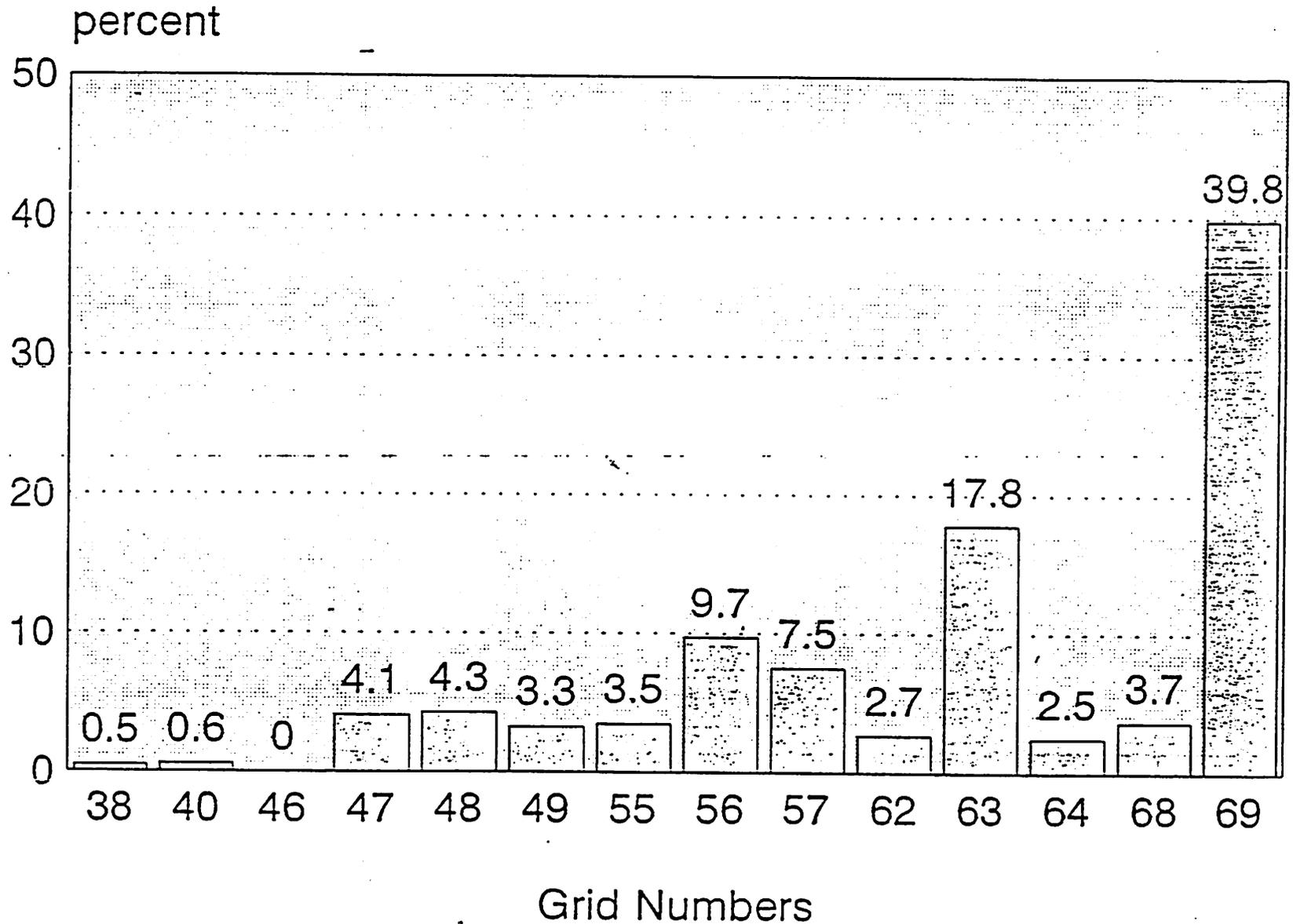
6 SPECIAL DEVELOPMENT STRUCTURES
 Obsolete light and sound float supports are proposed for total removal. Development structures shown on this chart, subject to approval by the District Commander, U.S. Coast Guard (33 CFR 67)

7 CAUTION
 Damaging oil well structures are located within Breton Sound and waters to the westward.

11 Dec 1971
 Pils maind

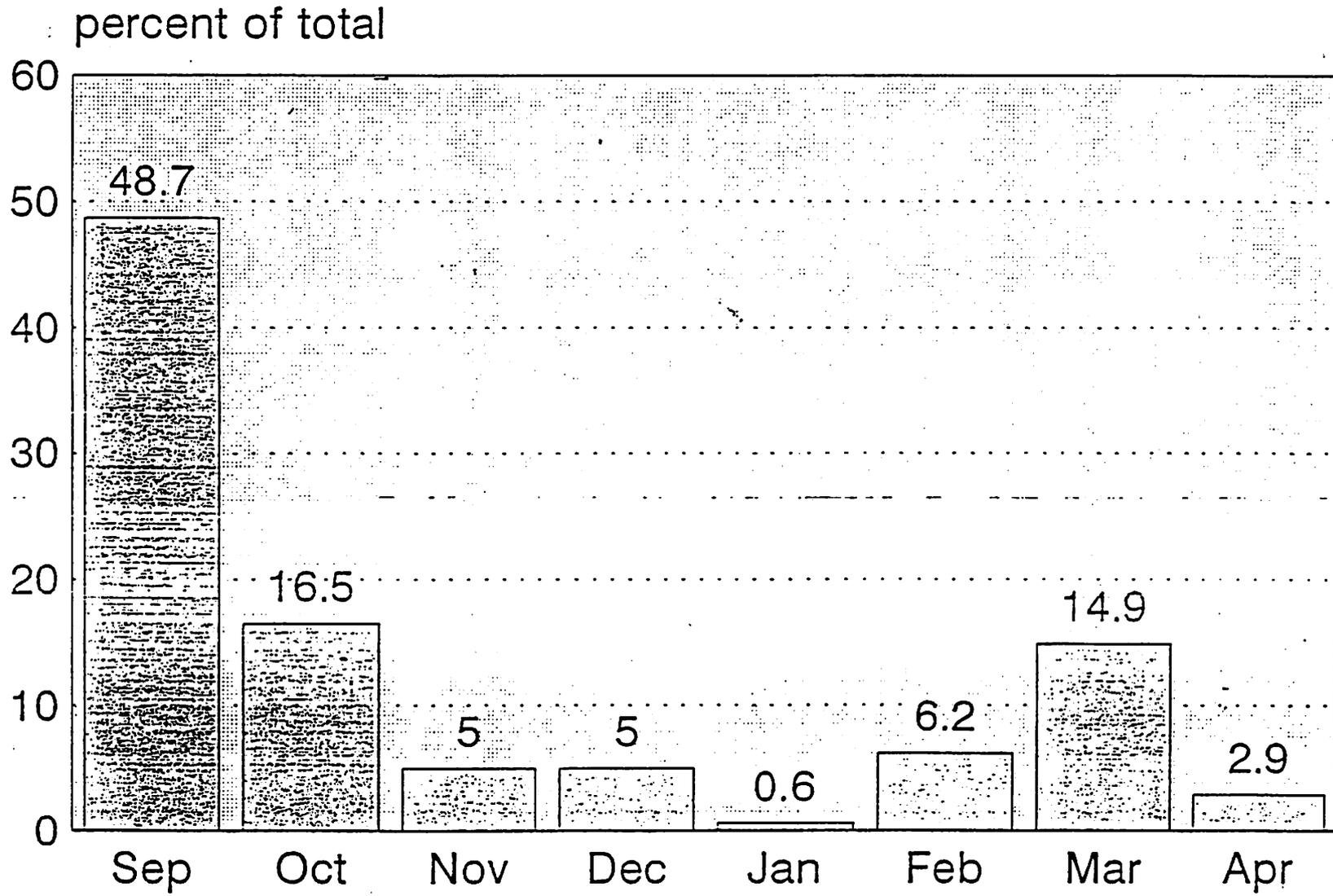
1994 SEED OYSTER PRODUCTION

Public Grounds



SEED PRODUCTION

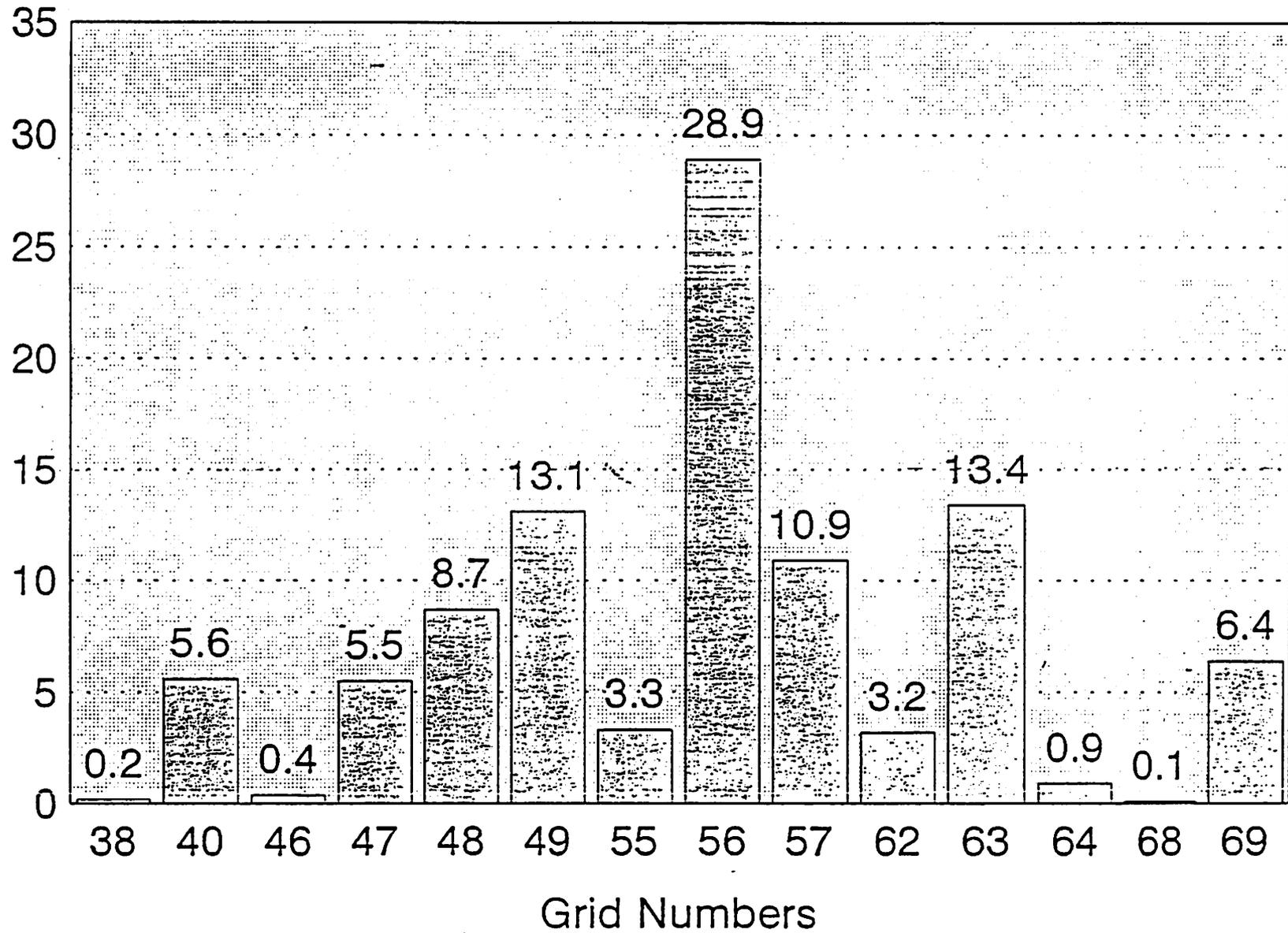
Public Grounds



93/94 Season

1994 SACK OYSTER PRODUCTION

Public Grounds



1994
COASTAL STUDY AREA II

Meter ² Station	Grids	Acres	Meter ²	# Seed Oys	# Sack Oys	BBLS Seed	BBLS Sack
1	1,2,3,4,8,9, 10	506	2,047,782	.33	.67	939	3,811
2	7,6,5,11, 12	59	283,773	30.00	9.33	11,824	7,354
3	13,14,15	896	3,626,112	16.7	6.00	83,955	60,435
5	17,18,25,24	118	477,546	11.33	16.00	7,515	21,224
6	20,21,16	716	2,897,652	53.00	6.67	213,299	55,221
7	19,26,27	301	1,218,147	89.00	12.33	150,577	41,722
8	31,36,32	501	2,027,547	44.00	40.00	123,299	225,283
9	33,34,35	461	1,865,667	37.67	16.67	97,611	86,391
10	40,44	145	586,815	11.67	7.00	9,511	11,410
11	42,43,46	339	1,371,933	37.00	26.00	70,502	99,084
12	47	108	437,076	38.67	13.00	23,475	15,783
13	50,51	109	441,123	55.67	22.67	34,107	27,778
14	48,49	7	28,329	25.67	14.00	1,010	1,102
16	62,63,64	174	704,178	13.67	4.00	13,370	7,824
17	52,53,54,55, 59,60	659	2,666,973	0	0	0	0
19	65,66,67,68	193	781,071	8.67	0.67	9,405	1,454
20	56,58	293	1,185,771	7.67	17.33	12,632	57,082
21	37,38,41	659	2,666,973	0	23.33	100,011	172,835
22	39	122	493,734	27.00	42.33	21,258	58,055
23	30,23	28	113,316	31.00	13.33	5,508	4,196
24	22,29	69	279,243	5.67	3.00	2,199	2,327
4	Outside	-	-	10.00	1.67	-	0
15	Outside	-	-	16.00	27.33	0	0
18	Outside	1,528	6,183,816	2.33	4.33	20,012	74,348
26				41.67	3.00	-	0
25				0	0		
27				68.33	9.67		
					Total	1,012,626	1,034,749

1993 BAY JUNOP OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYS.	# SACK OYS.	BBLs SEED	BBLs SACK
251	17.2	69,284.64	20.5	9.0	1,973	1,732
253	73.26	296,483.22	9.0	.5	3,706	412
254	94.20	381,227.40	32.0	25.5	16,943	27,004
252	67.36	272,605.92	76.25	4.38	28,870	3,318
255	AVERAGED WITH STATION 252					
TOTALS					51,492	32,466

1994 BAY JUNOP OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYS.	# SACK OYS.	BBLS SEED	BBLS SACK
251	17.2	69,284.64	54.5	6.0	5,244	1,155
253	73.26	296,483.22	34.0	17.0	14,001	14,001
254	94.20	381,227.40	32.0	43.0	16,943	45,535
252	67.36	272,605.92	112.8	70.8	42,708	53,612
255	AVERAGED WITH STATION 252					
TOTALS					78,896	114,303

1992 SISTER LAKE OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	#METER ²	# SEED OYS.	# SACK OYS.	BBLs SEED	BBLs SACK
200	221.58	896,734.26	19.0	8.5	23,664	21,173
202	81.93	331,570.71	59.5	21.5	27,401	19,802
207	185.72	751,608.84	67.5	76.0	70,463	158,673
203	151.31	612,352	59.5	6.0	50,604	10,206
TOTALS					172,132	209,854

BOB/SSLAK92D.RAW

1993 SISTER LAKE OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYS.	# SACK OYS.	BBLs SEED	BBLs SACK
200	221.58	896,734.26	36.5	9.0	45,459	22,418
202	81.93	331,570.71	3.0	1.5	1,382	1,382
207	185.72	751,608.84	14.0	2.5	14,615	5,220
212	AVERAGED WITH STATION 207					
203	151.31	612,352	18.5	4.0	15,734	6,804
TOTALS					77,190	35,824

REEF ACREAGE X 4,047 = METER²

SEED OYS = AVERAGE # SEED OYSTERS IN METER² SAMPLES

SACK OYS = AVERAGE # SACK OYSTERS IN METER² SAMPLES

BBLs SEED = $\frac{\text{AVERAGE \# SEED OYSTERS X \# METER}^2}{360 \times 2}$

360 X 2

360 = AVERAGE NUMBER SEED OYSTERS PER SACK

360 X 2 = AVERAGE NUMBER SEED OYSTERS PER BARREL

BBLs SACK = $\frac{\text{AVERAGE \# SACK OYSTERS X \# METER}^2}{180 \times 2}$

180 X 2

180 = AVERAGE NUMBER SACK OYSTERS PER SACK

180 X 2 = AVERAGE NUMBER SACK OYSTERS PER BARREL

BOB#3/SSLAK93.RAW

1994 SISTER LAKE OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYS.	# SACK OYS.	BBLs SEED	BBLs SACK
200	221.58	896,734.26	88.5	10.5	110,224	26,155
202	81.93	331,570.71	82.5	6.5	37,992	5,987
207	185.72	751,608.84	113.0	5.5	117,961	11,483
212	AVERAGED WITH STATION 207					
203	151.31	612,352	108.5	4.0	92,278	6,804
TOTALS					358,455	50,429

20.5
9.0

9.0
.5

32.0
25.5 BAY JUNOP

HELLHOLE BAYOU

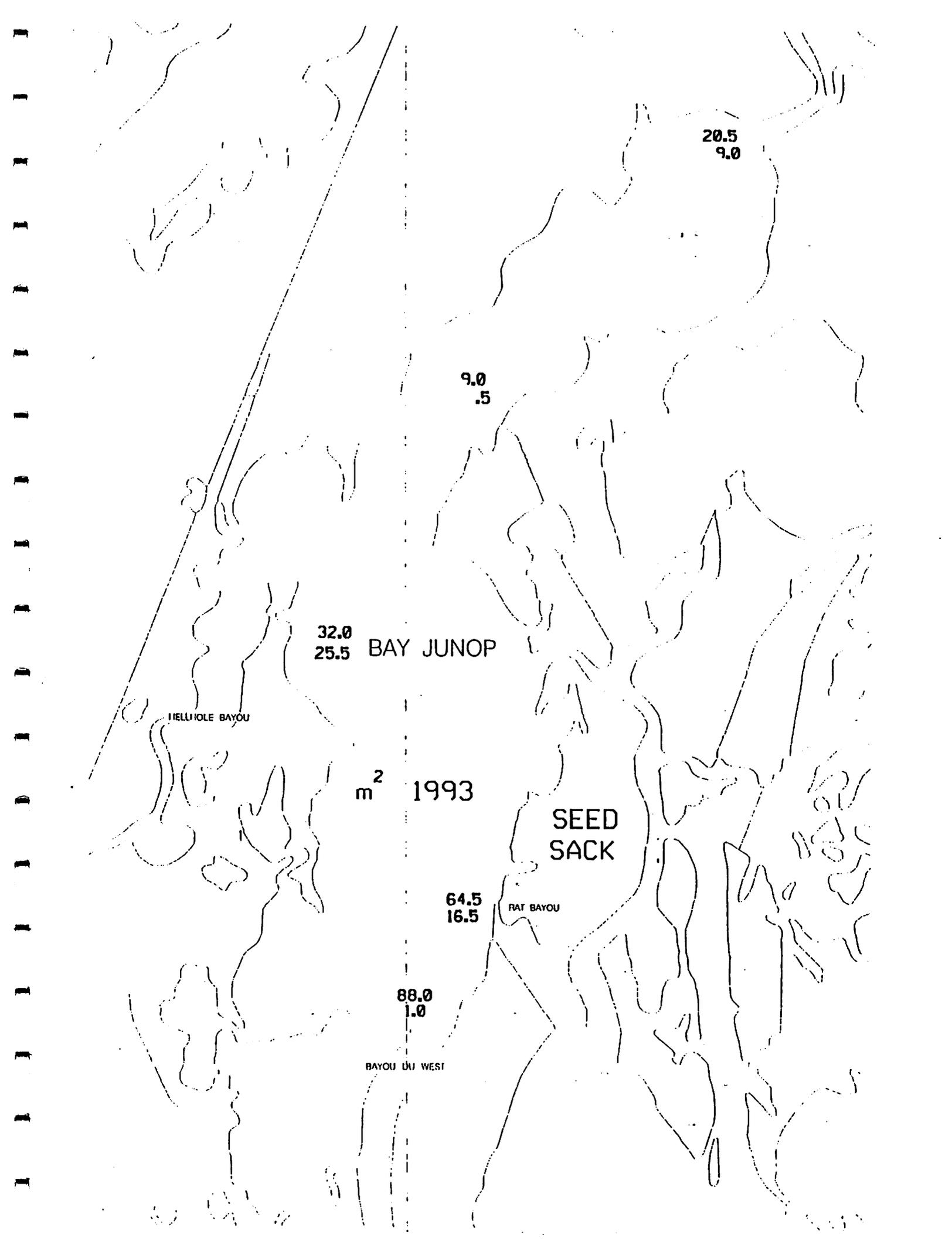
m² 1993

SEED
SACK

64.5
16.5 RAT BAYOU

88.0
1.0

BAYOU DU WEST



54
6

S
34
17

S
32
43

BAY JUNOP

M' 1994
S = SPAT
SEED
SACK

HELLIOLE BAYOU

S
170
116

PLAT BAYOU

S
55
26

BAYOU DU WEST

GRAND PASS

36.5
9.0

CAILLOU LAKE

3.0
1.5

WALKER'S POINT

MILE PASS

0.0
0.0

84.0
15.0

0.0
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SEED
SACK

m² 1993

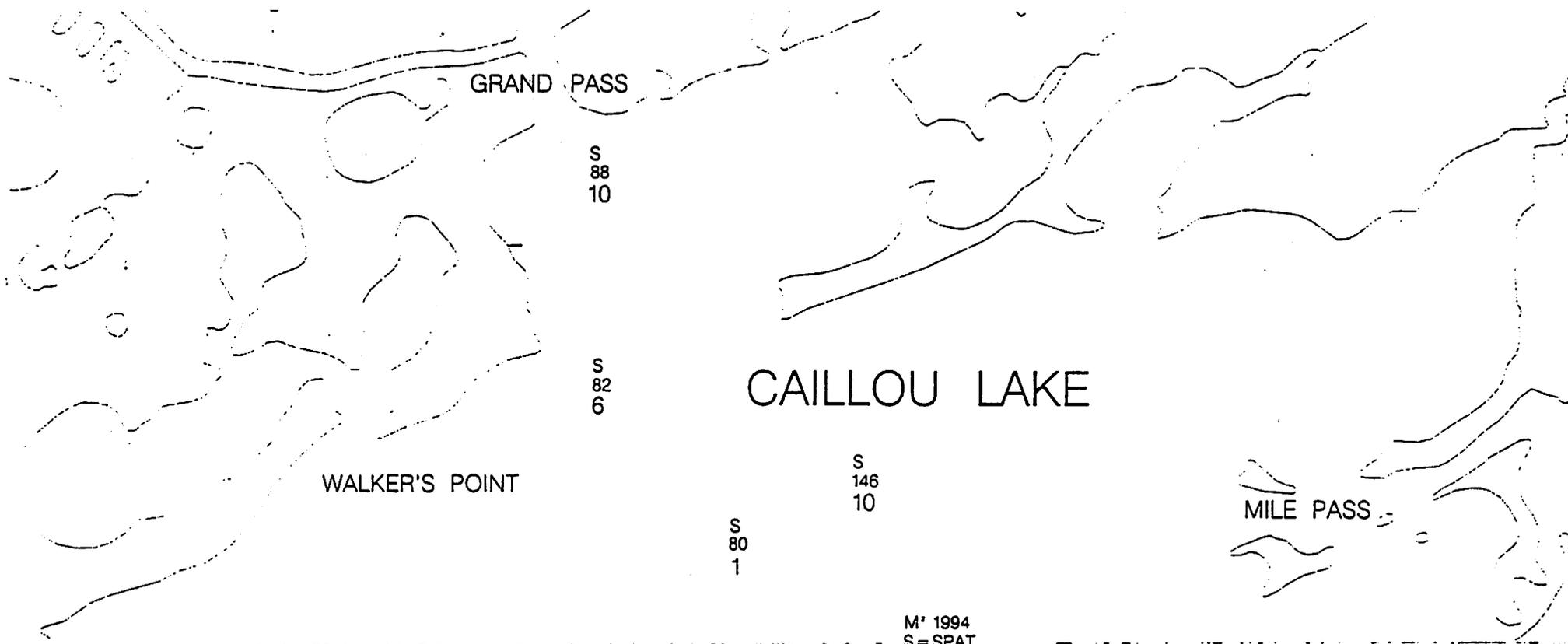
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BAY VOISIN

18.5
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GRAND BAYOU
DULARGE

PORPOISE
CUT



GRAND PASS

S
88
10

CAILLOU LAKE

S
82
6

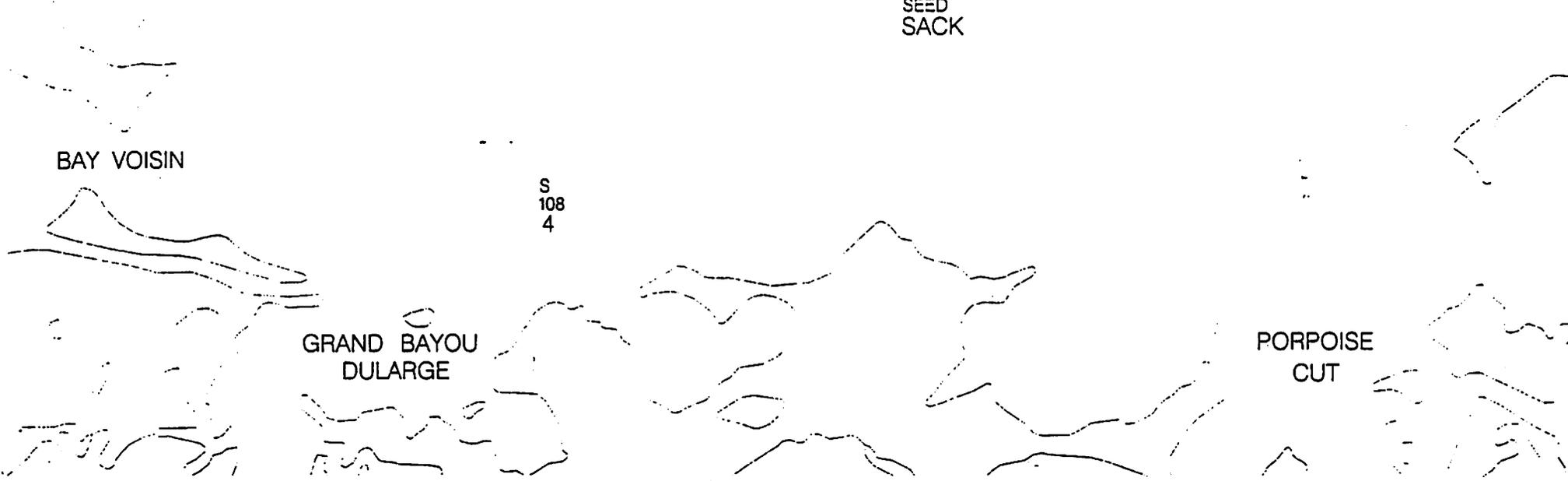
WALKER'S POINT

S
146
10

MILE PASS

S
80
1

M' 1994
S = SPAT
SEED
SACK



BAY VOISIN

S
108
4

GRAND BAYOU
DULARGE

PORPOISE
CUT

Oyster Production for the State of Louisiana (1994-95)
(Public Grounds)

East of the Mississippi River

(1) North of MRGO

Sacks (Market) 310,064

Barrels (Seed) 138,860

(2) South of MRGO

Sacks (market) 675,979

Barrels (Seed) 224,725

Total 986,043 Sacks (Market)

363,585 Barrels (Seed)

West of the Mississippi River

Bay Junop Oyster Seed Reservation

Sacks (Market) 15,017

Barrels (Seed) 7,079

Calcasieu Lake

Sacks (Market) 6,084

All by Tonging

Approximately 1,000 peddled Sacks

Total 22,101 Sacks (Market)

7,079 Barrels (Seed)

Louisiana Totals

1,008,144 Sacks (Market)

370,664 Barrels (Seed)

State of Louisiana



Joe L. Herring
Secretary

Department of Wildlife and Fisheries
Post Office Box 98000
Baton Rouge, LA 70898-9000
(504) 765-2800

Edwin W. Edwards
Governor

MEMORANDUM

April 25, 1995

TO: Ron Dugas, Oyster Program Manager

FROM: *JB* John Burdon, Proj. Coord. CSA I

SUBJECT: Estimated Oyster Production from State Waterbottoms (CSA-1) (Louisiana) (1994-1995 Oyster Season)

Oyster season on state waterbottoms in CSA-1 for the 1994-95 oyster harvesting period opened on September 7, 1994. The harvesting period was to initially close on March 31, 1995, however, an extension allowed harvesting through April 22, 1995.

Production decreased in CSA-1 during the 1994-95 season in comparison to the previous season due to fishing effort and not lack of oyster availability. The majority of the fishing fleet concentrated their efforts in CSA-II where oyster availability was of higher concentration, presumed to be of higher quality or was closer to the harvesters bedding grounds. Harvesting in CSA-1 was primarily conducted by fishermen with domiciles or oyster leases in close proximity to the fishing grounds. However, with the extension of the oyster season in CSA-1 coupled with closures on most other state waterbottoms, the harvesting effort in CSA-1 was greatly increased during the later part of March and continued through the 22 of April, 1995.

Month	Sacks (Market)	Barrels (Seed)
September-1994	47,520	10,800

An Equal Opportunity Employer

Oyster Production 1994-95 (continued)

Month	Sacks (Market)	Barrels (Seed)
October	43,152	9,600
November	47,376	3,500
December	47,424	
January-1995	44,144	
February	33,856	
March	15,792	56,160
April	30,800	58,800
TOTALS *	310,064	138,860

* 1994-1995 oyster season CSA-1

State of Louisiana



Joe L. Herring
Secretary

Department of Wildlife and Fisheries
1600 Canal Street
New Orleans, LA 70112
(504)568-5667

Edwin W. Edwards
Governor

April 27, 1995

MEMORANDUM

TO: Ron Dugas, Oyster Program Manager

FROM: Robert L. Ancelet, Coastal Study Area II

SUBJECT: 94/95 Oyster Season in C.S.A. II

The 1994-95 oyster season opened on the public seed grounds in Coastal Study Area II at 1/2 hour before sunrise on Sept. 7, 1994. A "sacking only" area was declared in Lake Fortuna, and Bay Gardene was open as it was last season. The only areas closed to oyster fishing were the shellplants east of Lonesome Island and in Bay Crab.

At 10:00 AM on Sept. 7, no boats were observed in Bay Crab, Bay Gardene, or West Black Bay near the old Bay Gardene Campsite; however, 169 boats were observed fishing in grids: 40, 47, 48, 49, 56, 57, 62, 63, 69, 70 (see grid map). Only 3 boats were observed in grid 40, the "sacking only" area. Boats in all grids were sacking except for grids: 57, 69, 63, and 47, producing 8,250, 550, 350, and 150 barrels of seed respectively. Total production (sack and seed) was greatest by far in grids 57, and 63.

Mortalities were noticed in grid 57 (the wreck). With previous salinities of 21 ppt. and no snails, "dermo" might have played a role.

Prices were \$10.00 per sack dockside and steady for the season. Demand declined later causing fishing to slow.

The yield varied between 5.5 to 6 pints per sack at California Bay to 4 to 6 pints per sack at Black Bay.

Oyster production for the 1994-95 season in Coastal Study Area II by month by grid was as follows:

Ron Dugas
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<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
September, 1994	38	450	0
	40	1,635	0
	47	8,520	600
	48	1,502	3,150
	49	3,800	7,200
	55	1,030	0
	56	12,151	1,650
	57	20,308	34,350
	62	15,831	0
	63	19,486	1,400
	69	10,098	2,950
	70	40	0
	Total		94,851

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
October, 1994	39	240	0
	40	12,575	0
	46	4,770	450
	47	10,765	15,200
	48	6,720	2,400
	49	28,730	30,600
	55	13,990	4,800
	56	16,670	2,850
	57	10,260	3,000
	62	11,095	0
	63	26,735	1,200
	68	2,070	0
	69	14,490	0
Total		159,110	60,500

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
November, 1994	38	400	0
	40	6,877	0
	46	6,012	750
	47	10,680	4,500
	48	1,650	2,850
	49	19,567	2,575
	54	4,900	0
	55	5,445	0
	56	9,560	750
	57	7,530	0
	62	6,743	0
	63	11,844	0
	64	413	0

Ron Dugas
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<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
November 94, (Cont.)	68	3,471	0
	69	8,413	1,500
Total		105,505	12,925

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
December 1994	40	10,430	0
	46	3,502	0
	47	1,910	0
	48	2,100	0
	49	29,055	0
	54	620	2,000
	55	4,489	0
	56	4,593	2,000
	57	12,867	0
	62	5,562	0
	63	10,192	4,000
	69	8,208	1,800
Total		93,528	9,800

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
January, 1995	40	20,140	0
	46	275	0
	47	280	0
	48	2,460	0
	49	13,970	0
	55	1,730	1,200
	56	1,870	3,500
	57	5,560	0
	62	495	0
	63	5,890	2,100
	69	2,380	0
Total		55,050	6,800

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
February, 1995	40	5,765	0
	46	585	0
	47	2,200	3,250
	48	3,810	0
	49	24,330	14,450
	54	455	0
	55	1,680	0
	56	23,090	11,200
	57	4,675	0
	62	2,535	0
	63	7,655	800
	64	390	0
	68	350	0
	69	1,200	2,100
	70	0	900
Total		78,720	32,700

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
March, 1995	40	22,105	3,250
	46	1,118	0
	47	3,020	0
	48	1,950	16,250
	49	24,240	8,000
	55	1,140	0
	56	13,500	20,600
	57	5,250	1,300
	62	4,010	0
	63	11,420	1,300
69	3,400	0	
Total		91,215	50,700
Season Total		675,979	224,725

Total production for the 1994-95 season was up from the 1993-94 season: 675,979 sacks and 224,725 barrels for 1994-95 as opposed to 484,380 sacks and 153,530 barrels for 1993-94.

Ron Dugas
Page 5
4/27/95

Most of the sack production (76%) was from an area forming a band from grid 69, California Bay, to grids 40 and 49 at Lake Fortuna and Mozambique Point, the outer reefs adjacent to Breton Sound. Most of the seed oysters (64%) were produced in grids 49, 56, and 57, also located on the outer reefs between Black Bay and Breton Sound. This production, both sack and seed, indicated that the outer reefs fall within a favorable environment supportive of oyster reproduction and survival since 1992.

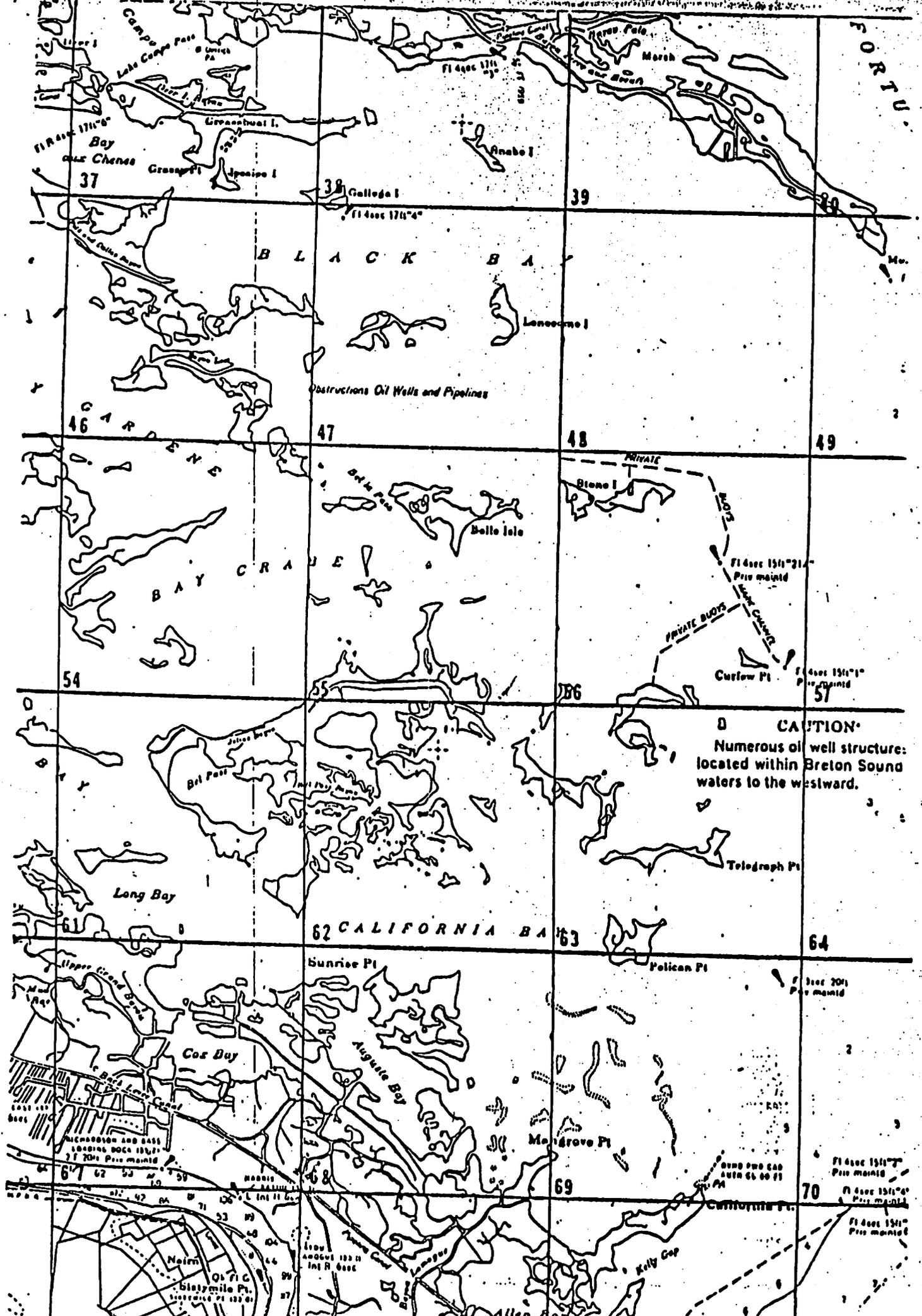
The heaviest sack production was during the months of October and November of 1994 with over 100,000 sacks each: 159,110 and 103,505 respectively. These sacks went for \$10.00 dockside during the course of the season, while yields varied between 4 and 6 pints per sack.

Most of the seed oyster production occurred early and late in the season: September and October, 1994 with 51,300 and 60,500 barrels respectively and February and March, 1995 with 32,700 and 50,700 respectively.

Inquiries with the canning industry revealed that only oysters from Cabbage Reef were steamed, therefore, all of the seed production from Coastal Study Area II were bedded on private leases.

RLA:ymw
cc: Greg Laiche
Phil Bowman

F O R T U

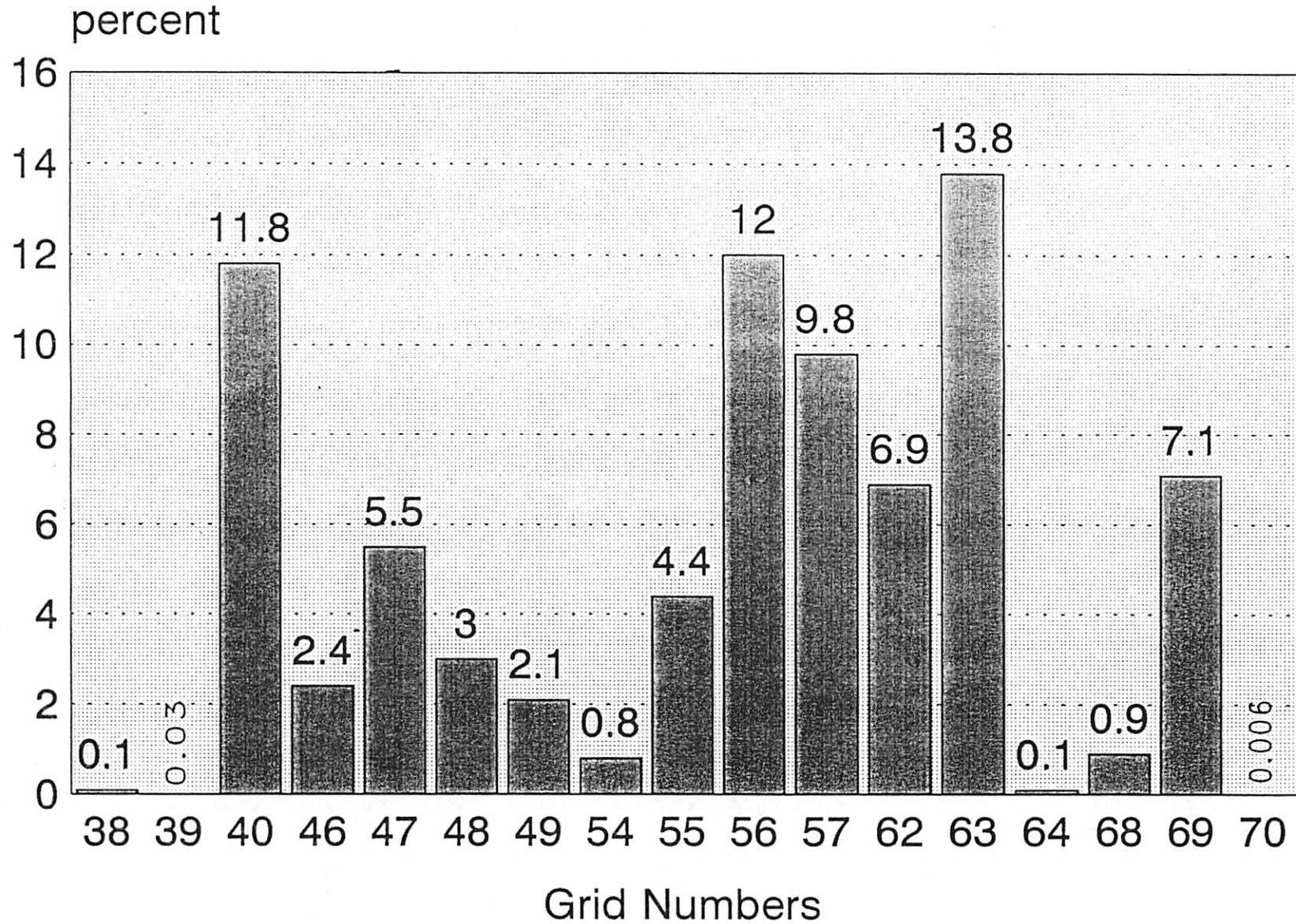


CAUTION:
 Numerous oil well structure:
 located within Breton Sound
 waters to the westward.



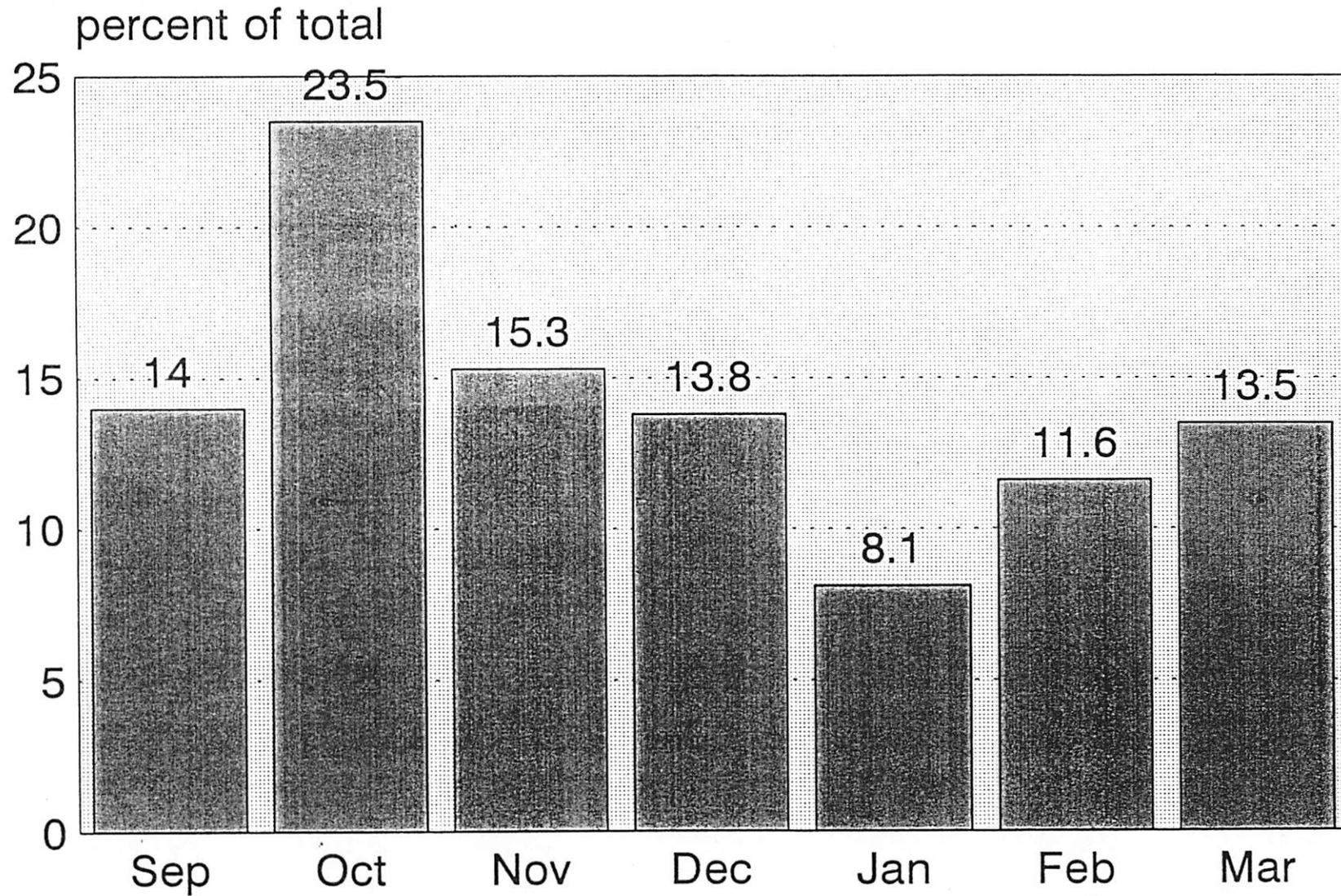
1995 SACK OYSTER PRODUCTION

Breton Sound Basin Public Grounds



SACK PRODUCTION

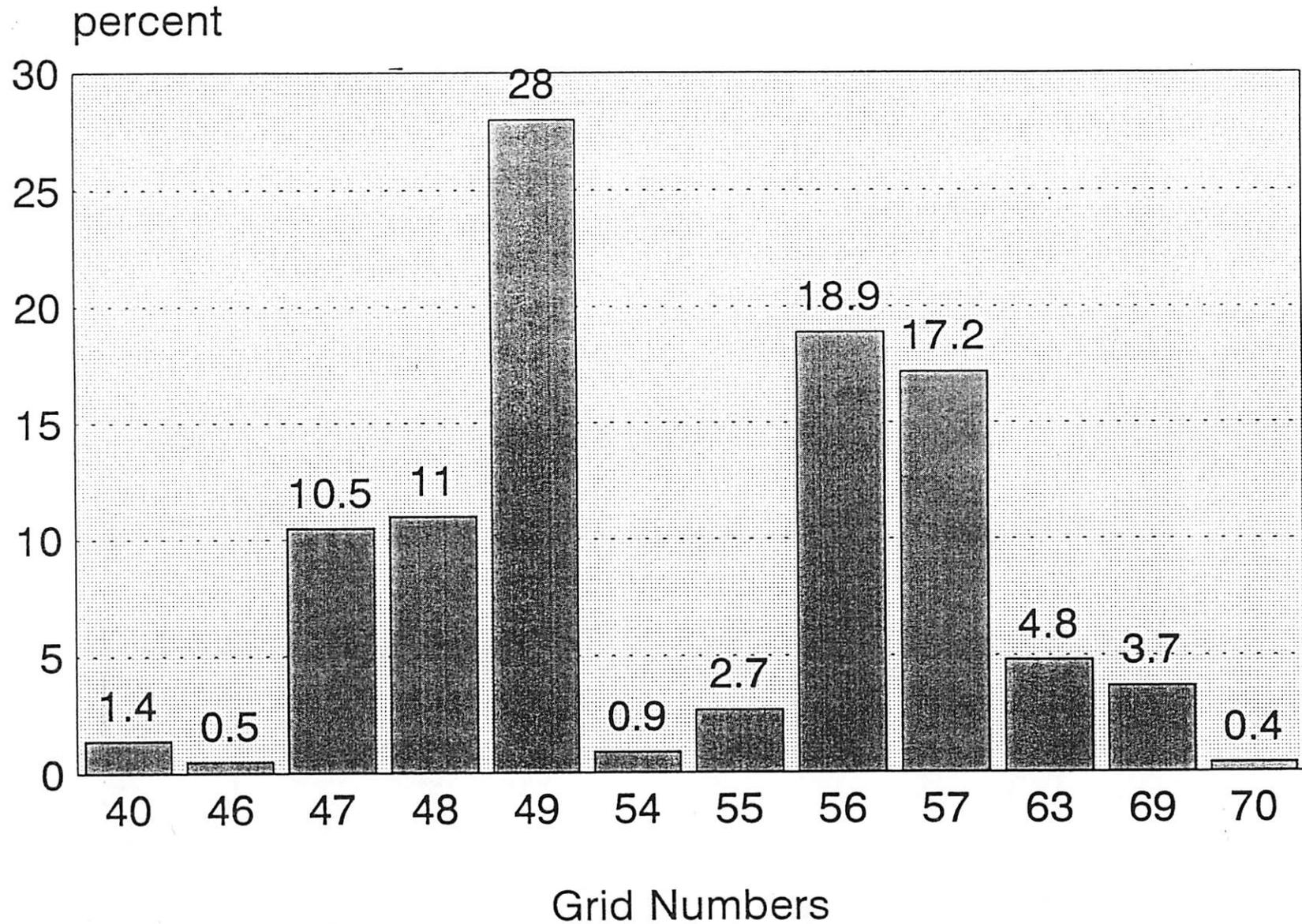
Breton Sound Basin Public Grounds



94/95 season

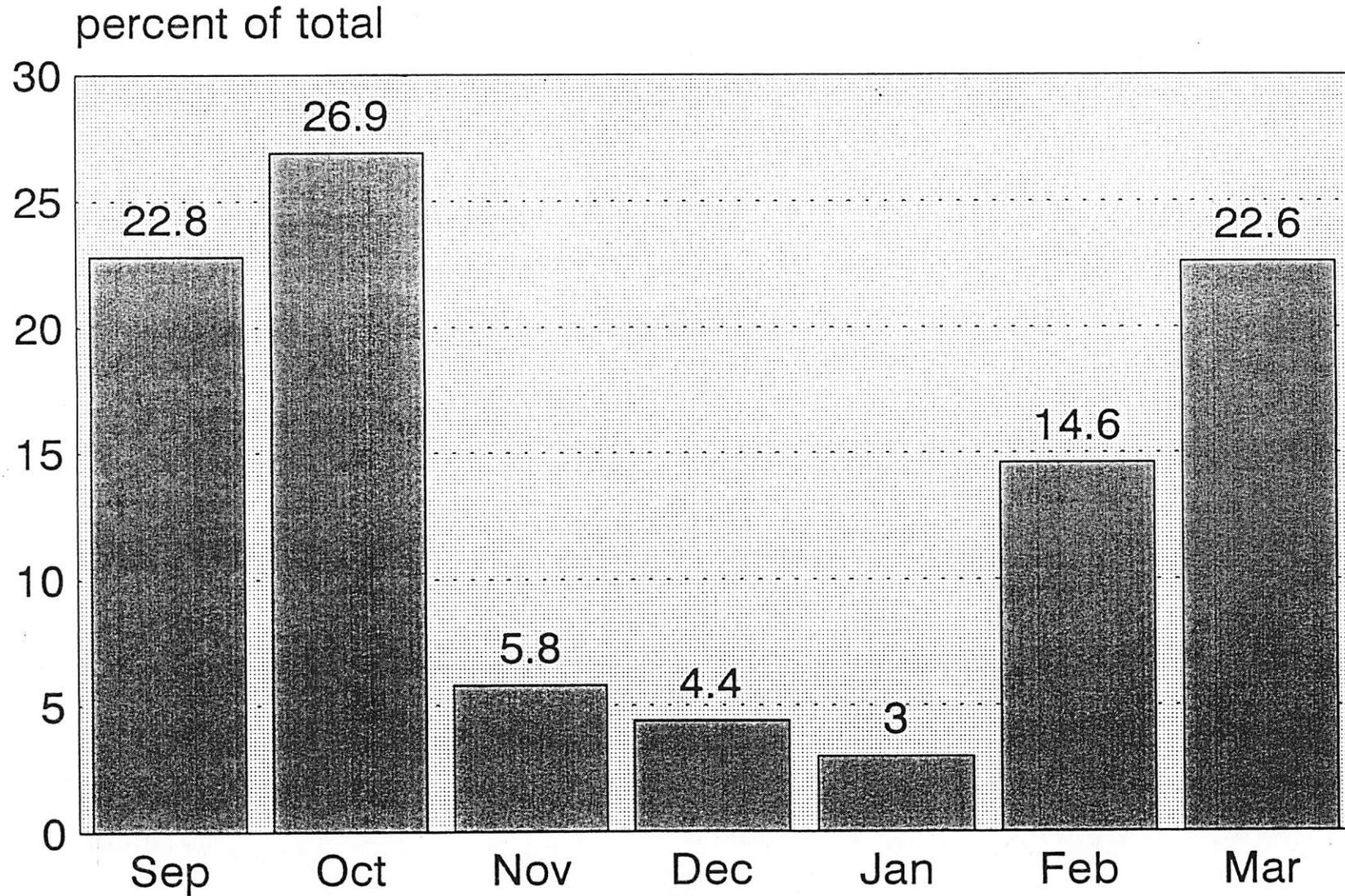
1995 SEED OYSTER PRODUCTION

Breton Sound Basin Public Grounds

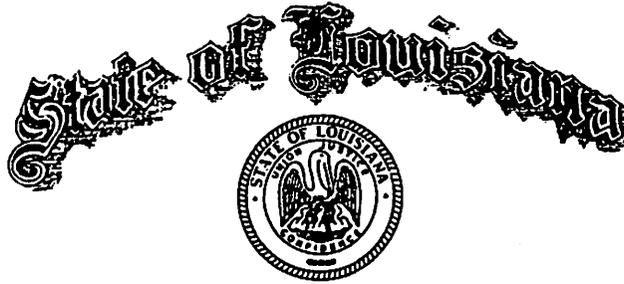


SEED PRODUCTION

Breton Sound Basin & Public Grounds



94/95 Season



JOE HERRING
SECRETARY

DEPARTMENT OF WILDLIFE AND FISHERIES
P. O. BOX 189
BOURG, LA 70343
PHONE (504) 594-4139
May 15, 1995

EDWIN EDWARDS
GOVERNOR

MEMORANDUM

TO: Ron Dugas, Program Manager

FROM: Paul Meier, Senior Field Biologist, CSA-V *PM*

SUBJECT: Bay Junop Oyster Harvest for 1994-95

The oyster harvest season on the Bay Junop Oyster Seed Reservation ended April 30, 1995 with a total of 15,017 sacks and 7,079 barrels of oysters harvested for a season total of 14,588 barrels (combined sack and seed). This is the highest total production from Bay Junop in twenty years. The last season that came close to this was the 1983-84 season which had a harvest of 14,234 barrels (combined sack and seed). A combination of short seasons and pollution line closures in part or all of the Bay Junop Oyster Seed Reservation during the past 12 years had reduced production. The extended season length and lack of an extensive pollution line closure (which normally occurs during the November through February portion of the season) helped boost production this season. An additional bonus came when the March pollution line completely opened Bay Junop and high tides allowed some large boats to work reefs that had not been worked in a long time and which had recovered very well from damage incurred by Hurricane Andrew in August of 1992.

The season opened September 7, 1994 with 18 boats working in Bay Junop. The effort was never very high but a small number of boats consistently worked the entire season which added up to a record total harvest.

The price of oysters ranged from \$10 to \$16 per sack with some boats limited as to how many sacks they could harvest due to a lack of sales for their oysters during a portion of the season (mainly February and March) which also restricted our production total. At the end of the season some boats were still getting 50-60 sacks per day and commented that the oysters were "rough" and needed to be worked.

Salinities on the south end of Bay Junop in January were averaging 19-20 ppt and on April 30 were still around 18 ppt. Oyster dredge samples made in March indicated a

Ron Dugas
Page 2

healthy population of oysters and no sign of oyster drills. As water temperatures rise we will try to sample this area and keep you apprised of its condition.

The seismic work which Freeport-McMoran did on the Bay Junop Oyster Seed Reservation during March and April for a potential gas well to be drilled in the adjacent marsh apparently went well with no major problems.

If you need any additional information, please let me know.

PM/jbv

State of Louisiana



Joe L. Herring
Secretary

Department of Wildlife and Fisheries
2415 Darnall Road
New Iberia, LA 70560
(318)373-0032

Edwin W. Edwards
Governor

MEMORANDUM

TO: Ron Dugas, Program Manager

FROM: Pete Juneau, Mar. Fish. Biol. Project. Coordinator 

DATE: March 15, 1995

SUBJECT: Report on 1994/95 Oyster Season on Public Grounds
and Meter Square Samples for 1995.

Please note that due to the poor conditions of the seed grounds and leased areas in CSA VI there have been no boats working for oysters in this area during the past year.

We will take dredge samples in the area to see if it is feasible to do meter square samples.

PJ/dgg

TOTAL OYSTER LANDINGS FROM DEALER REPORT IN CSA VII

	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/2000
OCTOBER	-----	0	-----					
NOVEMBER	8,081	2,782	0 ¹					
DECEMBER	11,055	5,737	2,061					
JANUARY	3,025	2,632	2,066					
FEBRUARY	4,971	1,042	1,378					
MARCH	196	325	426					
APRIL	0	300	153					
TOTAL	27,328	12,818	6,084					

¹ SEASON WAS CLOSED 10-31-94 BY DHH UNTIL 12/10/94.

*For, we had a fairly strong peddling market
 this season. therefore I have added
 1,000 oysters to cover this harvest/peddling.
 7084
 more complete report to follow soon.
 RA, 4/94*

1995/96 M² SAMPLES AND STOCK ASSESSMENT

State of Louisiana



Joe L. Herring
Secretary

Department of Wildlife and Fisheries
1600 Canal Street
New Orleans, LA 70112
(504)568-5667

Edwin W. Edwards
Governor

July 20, 1995

MEMORANDUM

TO: Ron Dugas, Oyster Program Manager

FROM: Robert L. Ancelet, C.S.A. II 

SUBJECT: 1995-96 Oyster Season Forecast

Results from our annual square meter samples show another increase in oyster availability on the public seed grounds throughout the State.

In Coastal Study Area I, samples show the major portion of the resource between Cabbage Reef and Petit Pass (see sample map). The 1995 stock assessment in this Study Area indicates an increase in seed and sack oyster availability: from 275,764 barrels of seed oysters in 1994 to 738,718 barrels of seed oysters in 1995, and from 146,166 barrels of sack oysters in 1994 to 804,664 barrels of sack oysters in 1995. These figures represent better than a 2.5 fold increase.

Coastal Study Area II experienced another increase in the annual stock assessment, therefore, the trend reversal, begun in 1992, continues (note the bar graph of oyster availability; oysters were found at all stations except Bell Pass Bayou near Sunrise Point.) A few seed oysters were observed at Battledore Reef. All stations except Battledore Reef showed more seed oysters than sack oysters indicating that populations on the reefs are increasing even though over one half million sacks were fished last season (see sample map). Our 1995 stock assessment shows more oysters than our assessment for 1980, the best year since we started of our sampling program (see bar graph). Two shellplants were conducted in Coastal Study Area II in 1994. These shellplants, Lonesome Island and Bay Crab, were examined for cultch exposure and oyster stock assessment. Results from these samplings are as follows:

Seed Oysters

Shellplant	Acres	#Oysters	Barrels Seed
Lonesome Is.	708	28.0	111,427
Bay Crab	137	29.5	22,717

Sack Oysters

Shellplant	Acres	#Oysters	Barrels Sack
Lonesome Is.	708	0.5	3,980
Bay Crab	137	15	23,107

On both shellplants, approximately 30% of the cultch was exposed. Additional cultch will be exposed when the shellplants are fished. This should result in future production. Spat appeared in all shellplant samples.

Hackberry Bay in Coastal Study Area III has only two small areas of natural reefs with a very limited resource, however, square meter samples from the experimental plantings of: crushed concrete, steam shells, reef, Kentucky limestone, and Bahamian limestone are producing some interesting results. Although an in depth analysis of this data as of this date, has not been performed, a cursory examination indicates greater sets on crushed concrete and steam shells.

Sister Lake (Caillou Lake) was closed during the 1994-95 season. The stock assessment for 1994 indicated 358,455 barrels of seed oysters and 50,429 barrels of sack oysters. This year, the stock assessment over the same reefs shows 90,447 barrels of seed oysters; a decreased of 268,008 barrels of seed oysters. A corresponding increase in the number of barrels of sack oysters is apparent: 1994-50,429 barrels, and 1995-395,332 barrels, an increase of 344,903 barrels. This is obviously the result of maturation of seed oysters to sack oysters. The 1995 stock assessment for Sister Lake reflects the oyster population in the Lake excluding oysters on the recent shellplants.

In 1994, three shellplants were conducted in Sister Lake. These are referred to as the North, Mid and South Shellplants (see map). Samples were taken on these shellplants to obtain percentage of cultch exposure and oyster stock assessments.

Results of cultch exposure by volume were as follows:

Shellplant	Exposure
North	50% - 70%
Mid	10% - 20%
South	10 - 50%

The cultch condition of the North and South Shellplants seem to be better than the Mid. Working these shellplants will, no doubt, exposure additional cultch for future sets and production.

Sister Lake - Shellplant stock assessments were as follows:

Seed Oysters

Shellplant	Acres	# Oysters	Barrels Seed
North	96	216.5	116,823
Mid	129	12	8,701
South	81	45.5	20,716

Sack Oysters

Shellplant	Acres	# Oysters	Barrels Sack
North	96	1.0	1,079
Mid	129	0	0
South	81	1.5	1,366

Spat were observed on all 1994 and 1995 shellplants in Sister Lake.

The 1995 Bay Junop oyster stock assessment shows a decline in the oyster population. In 1994, there were 78,896 barrels of seed oysters in Bay Junop, while in 1995, there appears to be a decrease of 39,946 barrels resulting in assessment of 38,950 barrels of seed oysters. Our 1995 assessment shows a decline in the number of barrels of sack oysters: 114,303 to 67,837, a decline of 46,466.

Enclosure(s)

RLA/ymw

cc: Karen Foote
Phil Bowman
Greg Laiche

#4/Slak.95A

COASTAL STUDY AREA I
JOHN BURDON

AREA 1
M^o 1994
S=SPAT
SEED
SACK

ISLE AUX PITRE
S 24.5
5

S 11.5
12.5

S 2.5
1

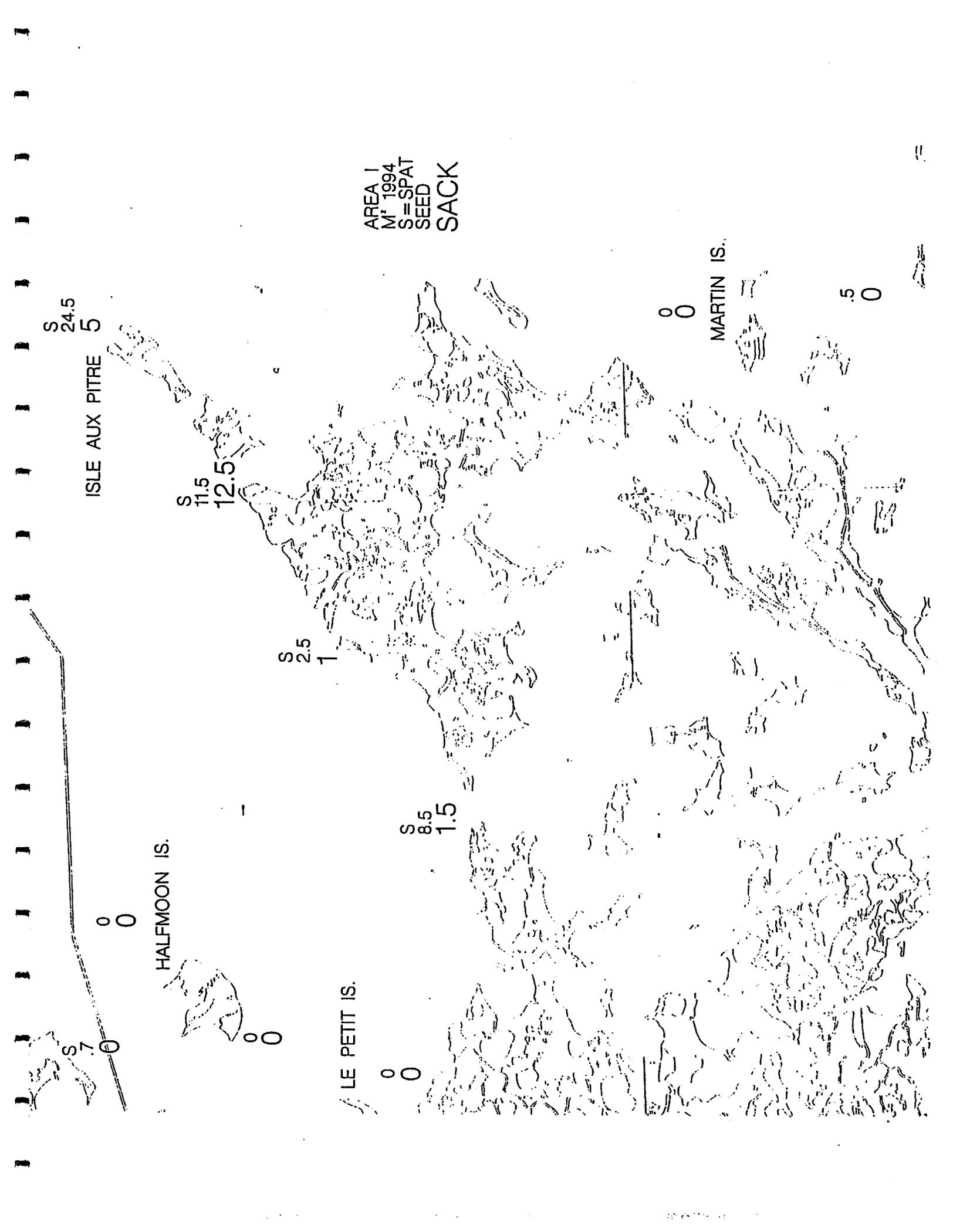
S 8.5
1.5

MARTIN IS.
0
0

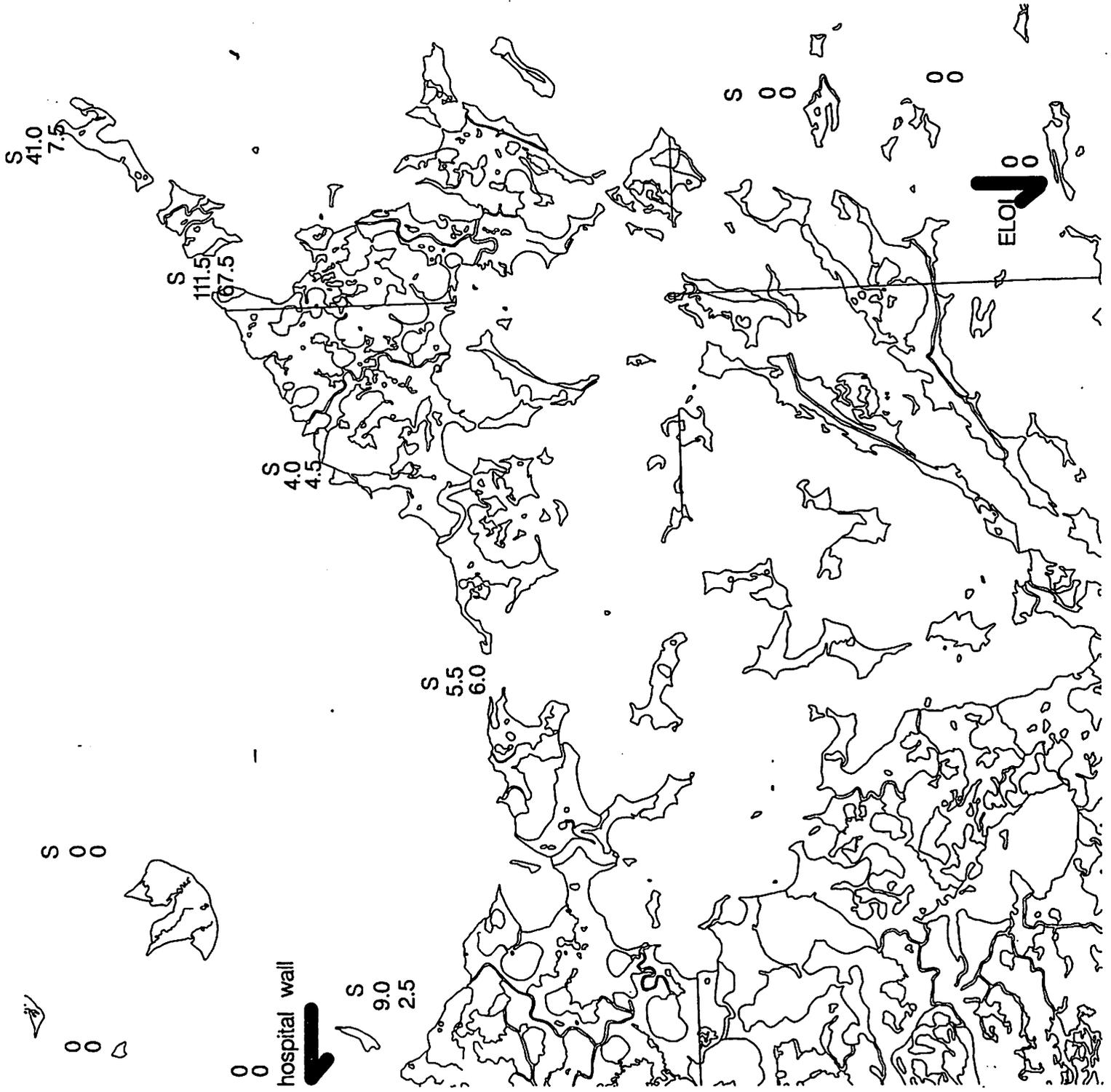
.5
0

HALFMOON IS.
0
0

LE PETIT IS.
0
0



Area 1
M² 1995
S = Spat
Seed
Sack



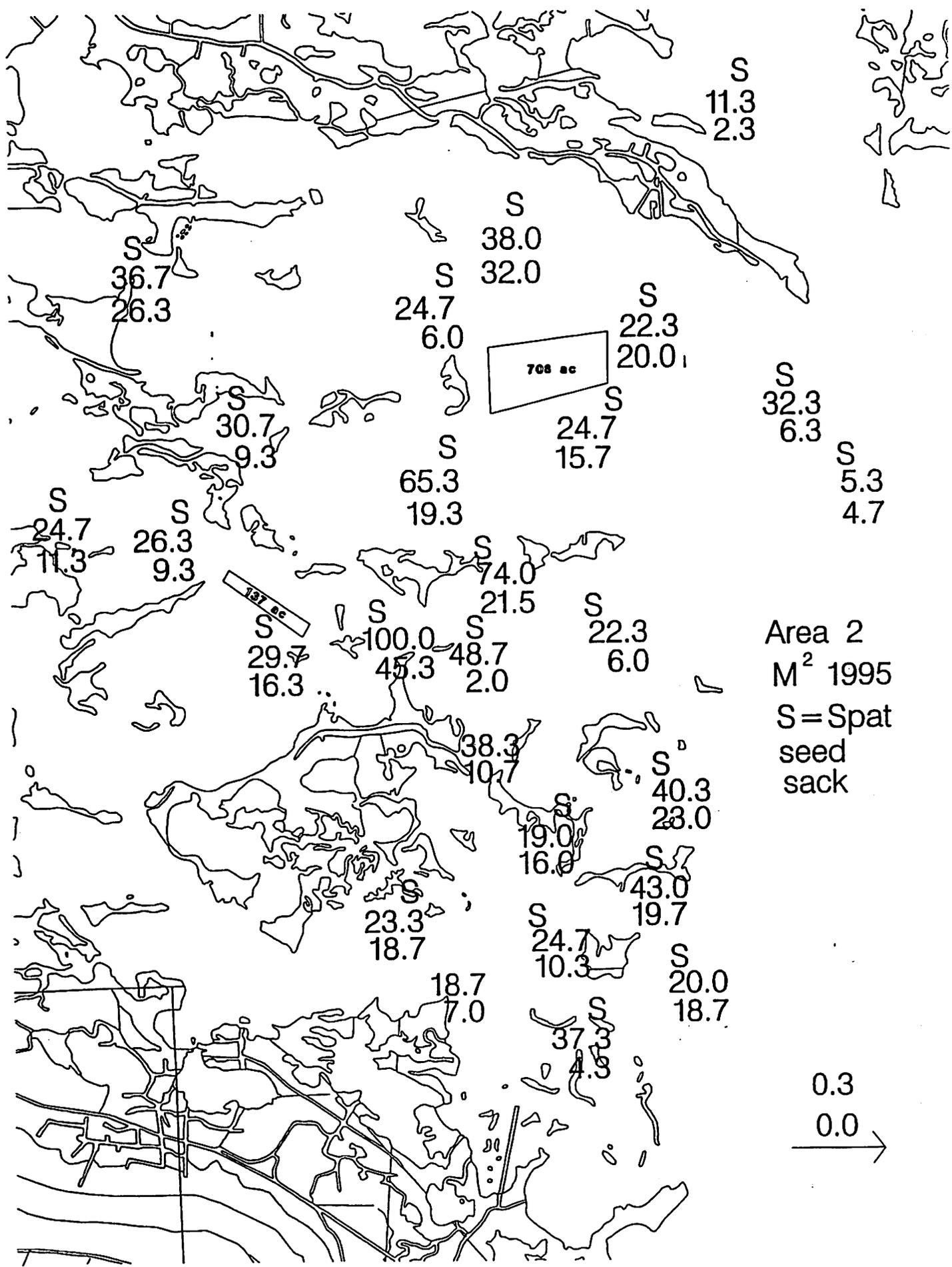
1994 COASTAL STUDY AREA I OYSTER AVAILABILITY

Meter ² Station	Reef Acreage	# Meter ²	#Seed Oyster	#Sack Oyster	BBLs Seed	BBLs Sack
001	376.07	1,521,955.29	0	0	0	0
002	-		0	0		
003			0	0		
004			0	0		
002-004	6850.17	27,722,638.00	0	0	0	0
005	3058.65	12,378,356.55	8.5	1.5	146,133	51,576
006			11.5	12.5		
007			24.5	.5		
008			N/A	N/A		
011			2.5	1.0		
006-011	1801.76	7,291,722.72	12.8	4.67	129,631	94,590
009			0	0	0	0
010			0	0	0	0
009-010	4155.70	16,818,117.90	0	0	0	0
Lake Pont.	631.27	2,554,749.69	N/A	N/A	0	0
ELO1	2691.84	10,893,876.48	N/A	N/A	0	0
TOTALS					275,764	146,166

COASTAL STUDY AREA II
ROBERT L. ANCELET

1995 COASTAL STUDY AREA I OYSTER AVAILABILITY

Meter ² Station	Reef Acreage	# Meter ²	#Seed Oyster	#Sack Oyster	BBLs Seed	BBLs Sack
001	376.07	1,521,955.29	0	0	0	0
002			0	0		
003			0	0		
004			9.0	2.5		
002-004	6850.17	27,722,638.00	3.0	0.8	115,511	61,606
005	3058.65	12,378,356.55	5.5	6.0	94,557	206,306
006			111.5	67.5		
007			41.0	7.5		
008			---	---		
011			4.0	4.5		
006-011	1801.76	7,291,722.72	52.2	26.5	528,650	536,752
009			0	0	0	0
010			0	0	0	0
009-010	4155.70	16,818,117.90	0	0	0	0
Lake Pont.	631.27	2,554,749.69	0	0	0	0
ELO1	2691.84	10,893,876.48	0	0	0	0
TOTALS					738,718	804,664



Area 2
M² 1995
S = Spat
seed
sack

0.3
0.0 →

S
11.3
2.3

S
38.0
32.0

S
36.7
26.3

S
24.7
6.0

S
22.3
20.0

708 ac

S
32.3
6.3

S
5.3
4.7

S
65.3
19.3

S
24.7
15.7

S
24.7
11.3

S
26.3
9.3

137 ac

S
74.0
21.5

S
22.3
6.0

S
29.7
16.3

S
100.0
45.3

S
48.7
2.0

Area 2
M² 1995
S = Spat
seed
sack

S
38.3
40.7

S
40.3
23.0

S
19.0
16.0

S
43.0
19.7

S
23.3
18.7

S
24.7
10.3

S
20.0
18.7

18.7
7.0

S
37.0
4.0

0.3
0.0 →

1994

**1994
COASTAL STUDY AREA II**

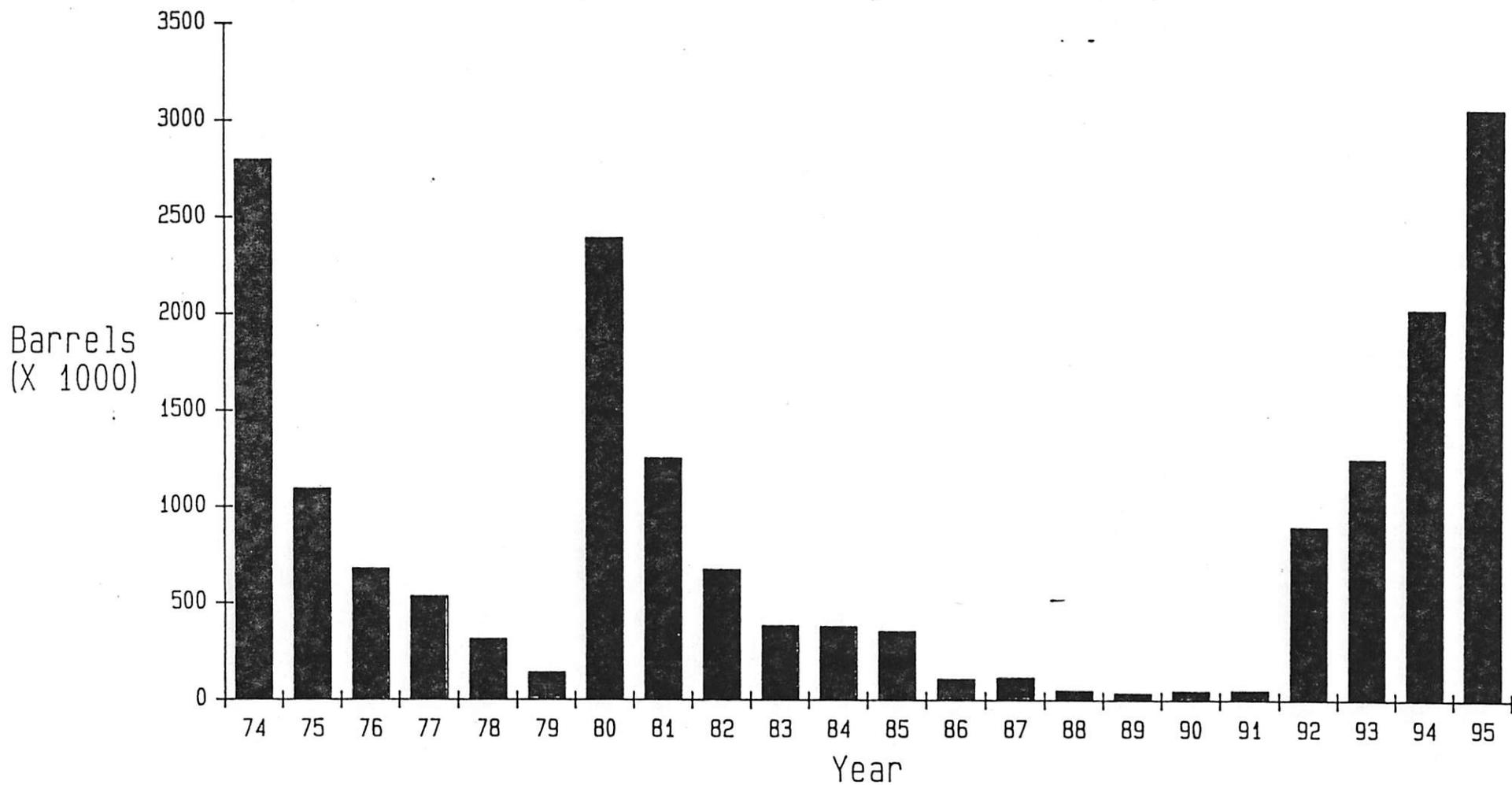
Meter ² Station	Grids	Acres	Meter ²	# Seed Oys	# Sack Oys	BBLS Seed	BBLS Sack
1	1,2,3,4,8,9, 10	506	2,047,782	.33	.67	939	3,811
2	7,6,5,11, 12	59	283,773	30.00	9.33	11,824	7,354
3	13,14,15	896	3,626,112	16.7	6.00	83,955	60,435
5	17,18,25,24	118	477,546	11.33	16.00	7,515	21,224
6	20,21,16	716	2,897,652	53.00	6.67	213,299	55,221
7	19,26,27	301	1,218,147	89.00	12.33	150,577	41,722
8	31,36,32	501	2,027,547	44.00	40.00	123,299	225,283
9	33,34,35	461	1,865,667	37.67	16.67	97,611	86,391
10	40,44	145	586,815	11.67	7.00	9,511	11,410
11	42,43,46	339	1,371,933	37.00	26.00	70,502	99,084
12	47	108	437,076	38.67	13.00	23,475	15,783
13	50,51	109	441,123	55.67	22.67	34,107	27,778
14	48,49	7	28,329	25.67	14.00	1,010	1,102
16	62,63,64	174	704,178	13.67	4.00	13,370	7,824
17	52,53,54,55, 59,60	659	2,666,973	0	0	0	0
19	65,66,67,68	193	781,071	8.67	0.67	9,405	1,454
20	56,58	293	1,185,771	7.67	17.33	12,632	57,082
21	37,38,41	659	2,666,973	0	23.33	100,011	172,835
22	39	122	493,734	27.00	42.33	21,258	58,055
23	30,23	28	113,316	31.00	13.33	5,508	4,196
24	22,29	69	279,243	5.67	3.00	2,199	2,327
4	Outside	-	-	10.00	1.67	-	0
15	Outside	-	-	16.00	27.33	0	0
18	Outside	1,528	6,183,816	2.33	4.33	20,012	74,348
26				41.67	3.00	-	0
25				0	0		
27				68.33	9.67		
					Total	1,012,626	1,034,749

1995

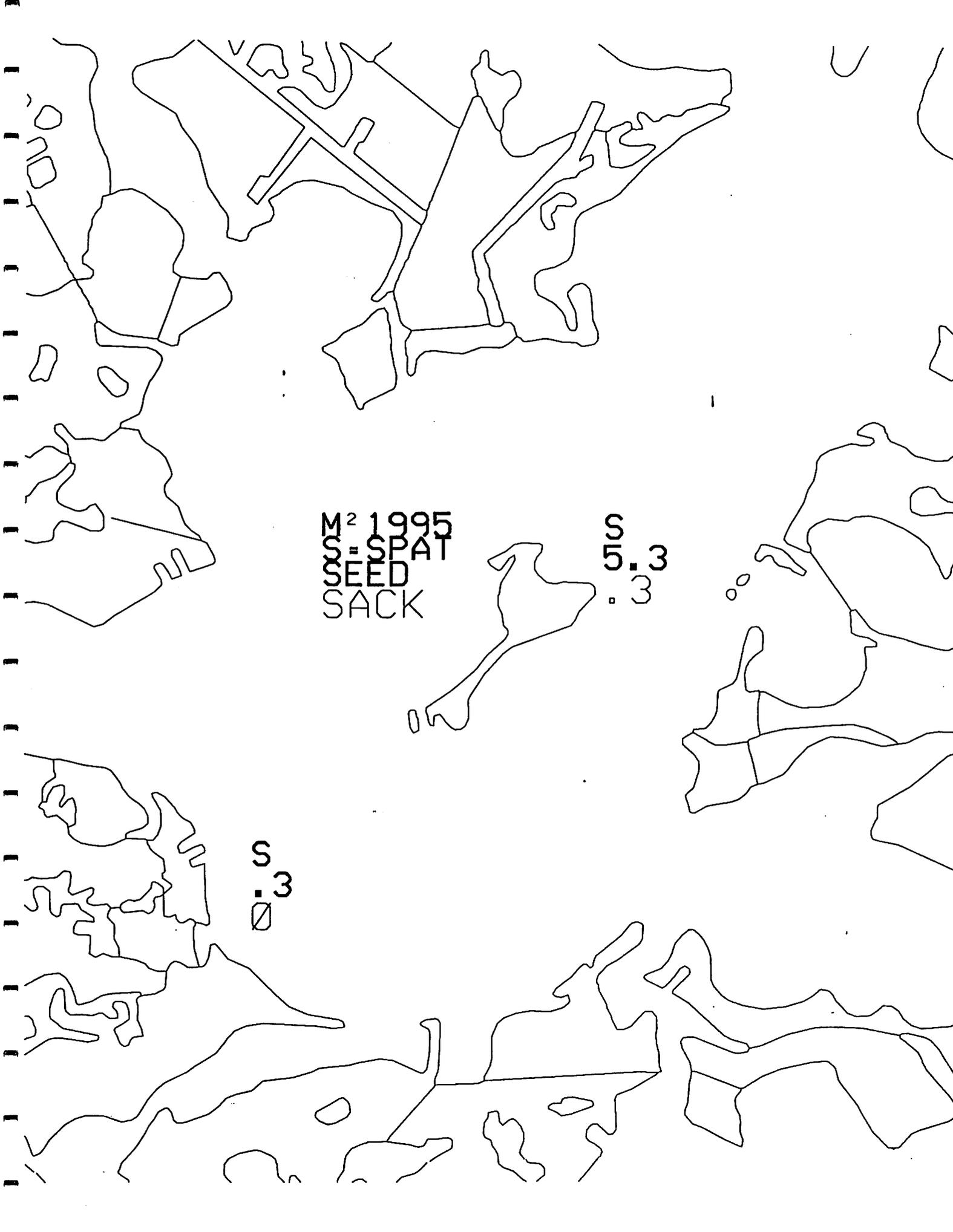
1995
COASTAL STUDY AREA II

Meter ² Station	Grids	Acres	Meter ²	# Seed Oys	# Sack Oys	BBLS Seed	BBLS Sack
1	1,2,3,4,8,9, 10	506	2,047,782	38.0	32.0	108,077	182,025
2	7,6,5,11, 12	59	283,773	36.7	26.3	14,464	20,731
3	13,14,15	896	3,626,112	24.7	6.0	124,396	60,435
5	17,18,25,24	118	477,546	30.7	9.3	20,362	12,337
6	20,21,16	716	2,897,652	24.7	15.7	99,406	126,370
7	19,26,27	301	1,218,147	65.3	19.3	110,479	65,306
8	31,36,32	501	2,027,547	29.7	16.3	83,636	91,803
9	33,34,35	461	1,865,667	74.0	21.5	191,749	111,422
10	40,44	145	586,815	22.3	6.0	18,175	9,780
11	42,43,46	339	1,371,933	38.3	10.7	72,979	40,777
12	47	108	437,076	40.3	23.0	24,464	27,924
13	50,51	109	441,123	19.0	16.0	11,641	19,605
14	48,49	7	28,329	23.3	18.7	917	1,472
16	62,63,64	174	704,178	18.7	7.0	18,289	13,692
17	52,53,54,55, 59,60	659	2,666,973	0.0	0.0	0	0
19	65,66,67,68	193	781,071	37.3	4.3	40,464	9,329
20	56,58	293	1,185,771	24.7	10.3	40,678	33,926
21	37,38,41	659	2,666,973	100.0	45.3	370,413	335,594
22	39	122	493,734	48.7	2.0	33,396	2,743
23	30,23	28	113,316	26.3	9.3	4,139	2,927
24	22,29	69	279,243	24.7	11.3	9,580	8,765
4	Outside	-	-	22.3	20.0		
15	Outside	-	-	43.0	19.7		
18	Outside	1,528	6,183,816	20.0	18.7	171,773	321,215
26				32.3	6.3		
25				0.3	0.0		
27				11.3	2.3		
					Total	1,569,477	1,498,178

Oysters Available on the Public Grounds
in Coastal Study Area II
(Seed and Sack Oysters Combined)



**COASTAL STUDY AREA III
MARK SCHEXNAYDER**

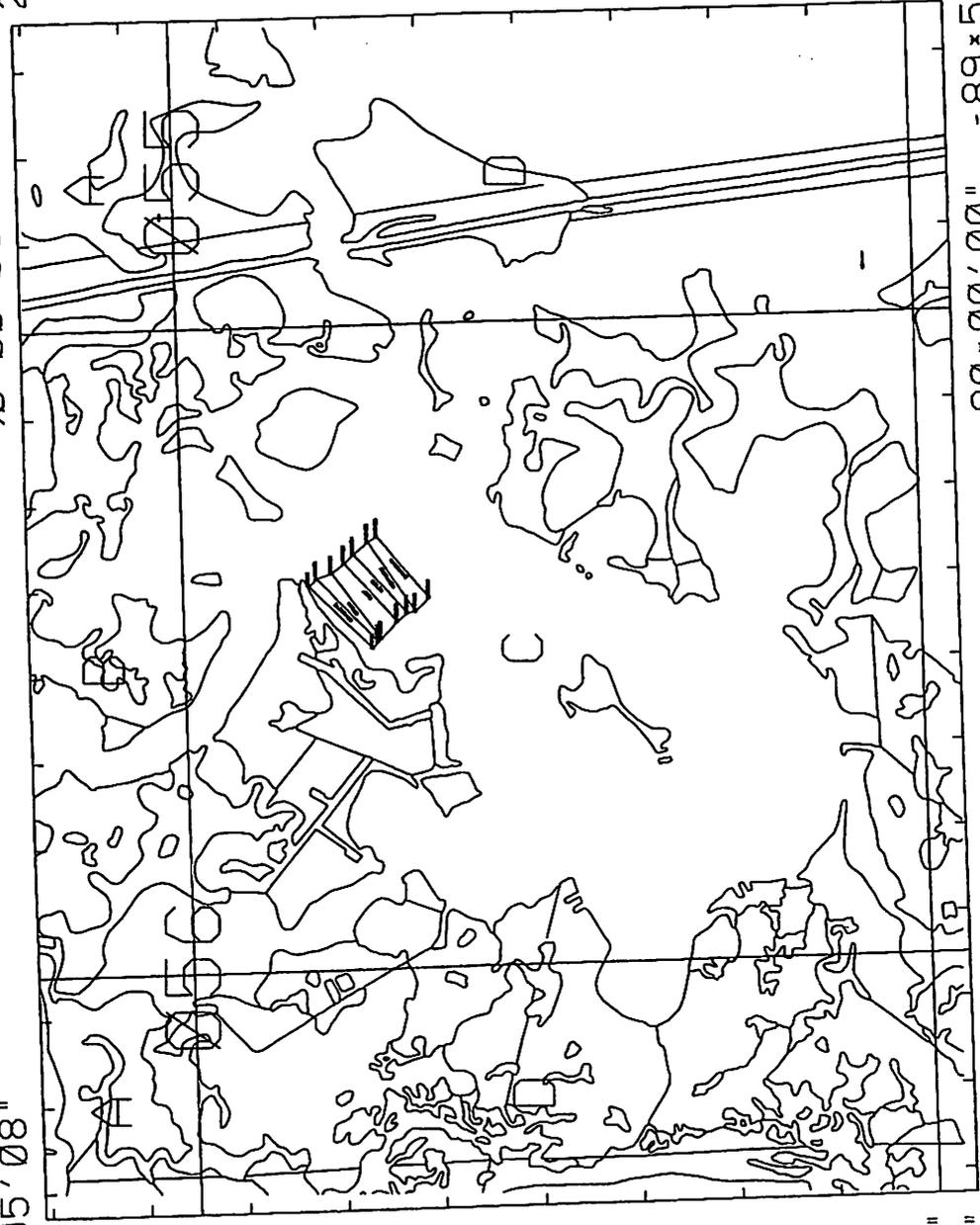


M² 1995
SSS-SPAT
SEED
SACK

S
3.3

S
3

-90°00'00" -89°58'13"
29°27'02"



-90°05'08"
29°27'02"

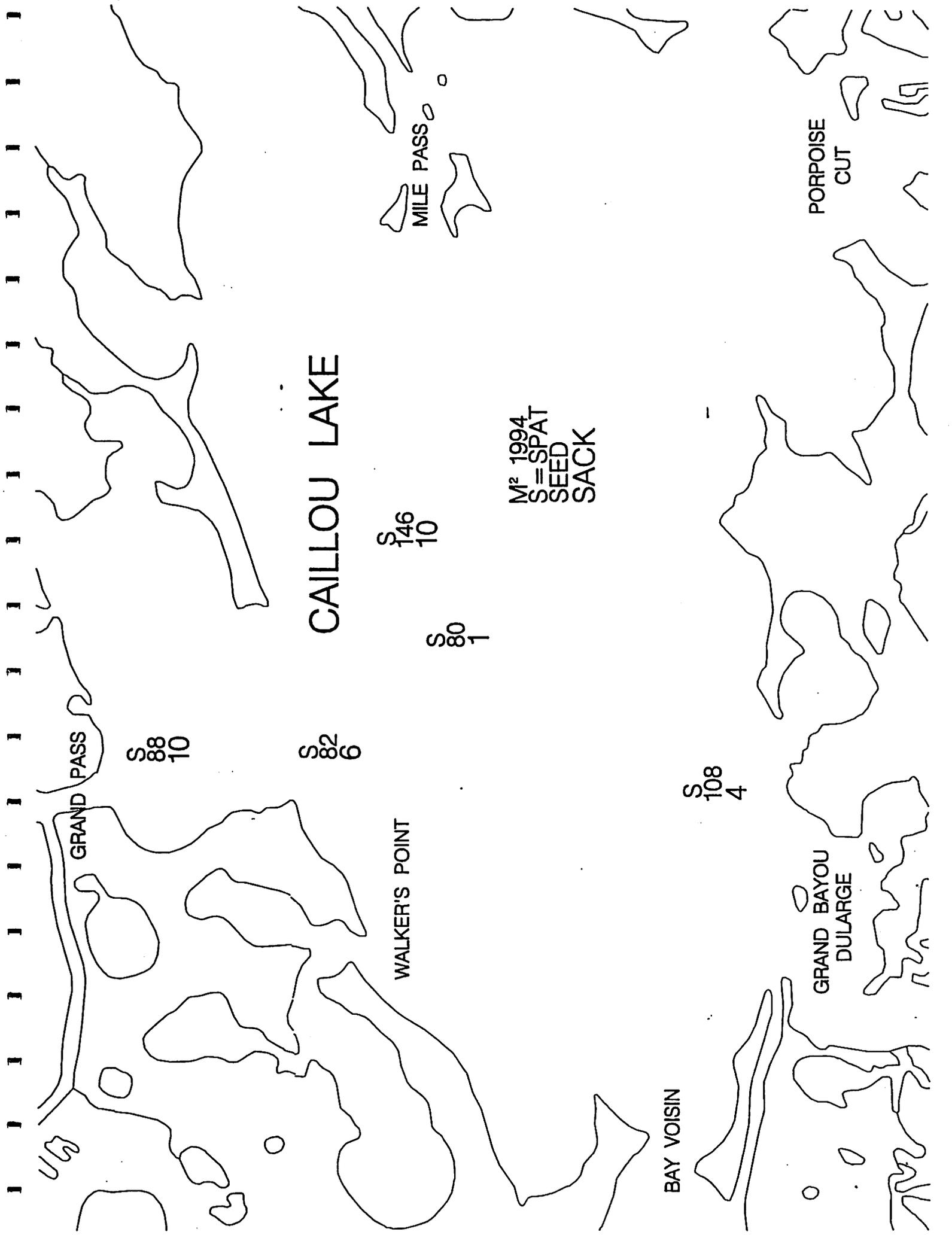
29°22'30"
29°22'18"

29°22'30"
29°22'18"

-90°00'00" -89°58'13"

-90°05'08"

**COASTAL STUDY AREA V
GERALD ADKINS
PAUL MEIER**



CAILLOU LAKE

GRAND PASS

S88
10

S82
6

WALKER'S POINT

S146
10

S80
1

MILE PASS

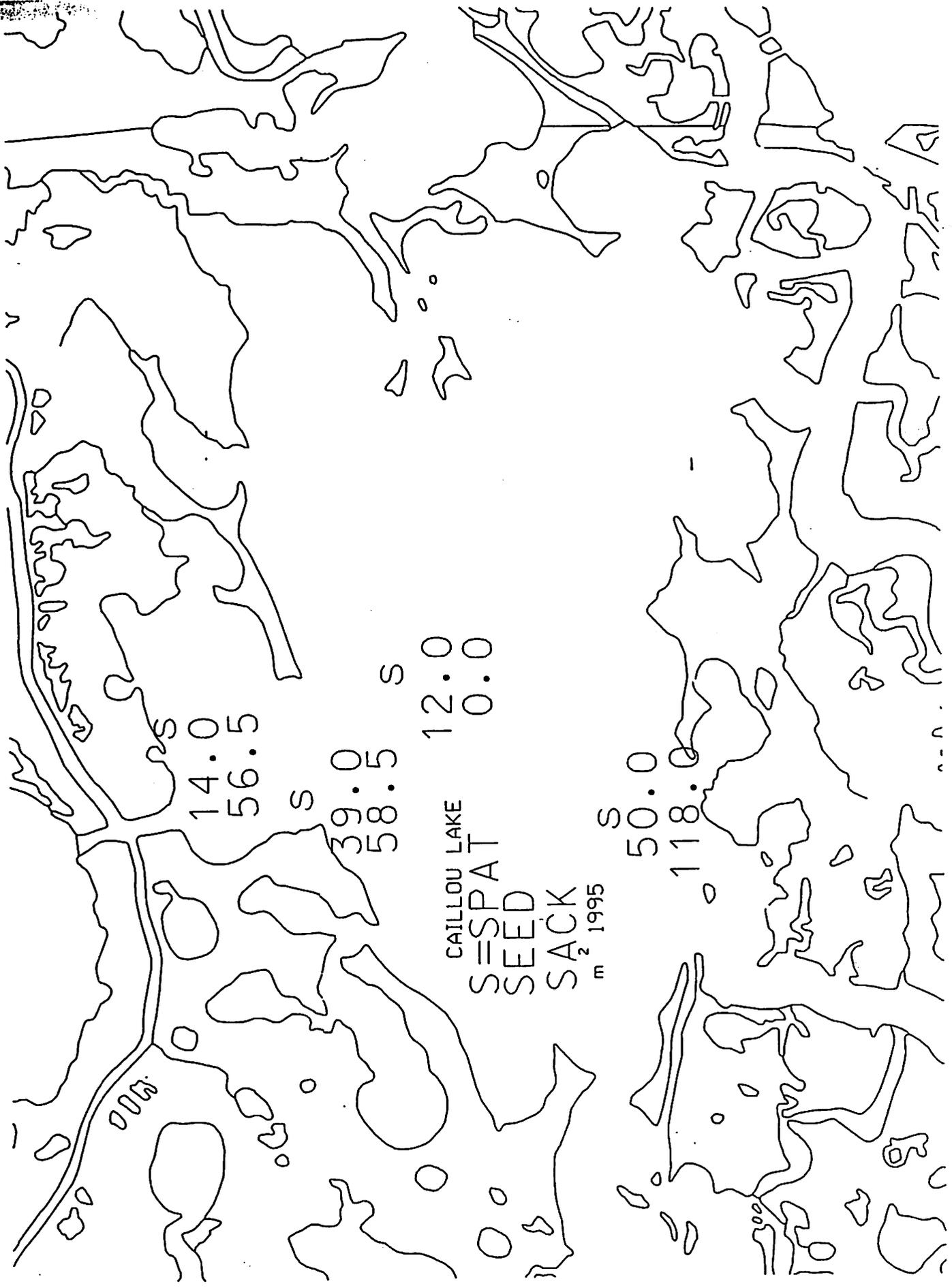
BAY VOISIN

S108
4

GRAND BAYOU
DULARGE

PORPOISE
CUT

M² 1994
S = SPAT
SEED
SACK



CAILLOU LAKE
S=SPAT
SEED
SACK₂
m 1995

14.0 S
56.5 S

39.0 S
58.5 S

12.0
0.0

S 50.0
118.0

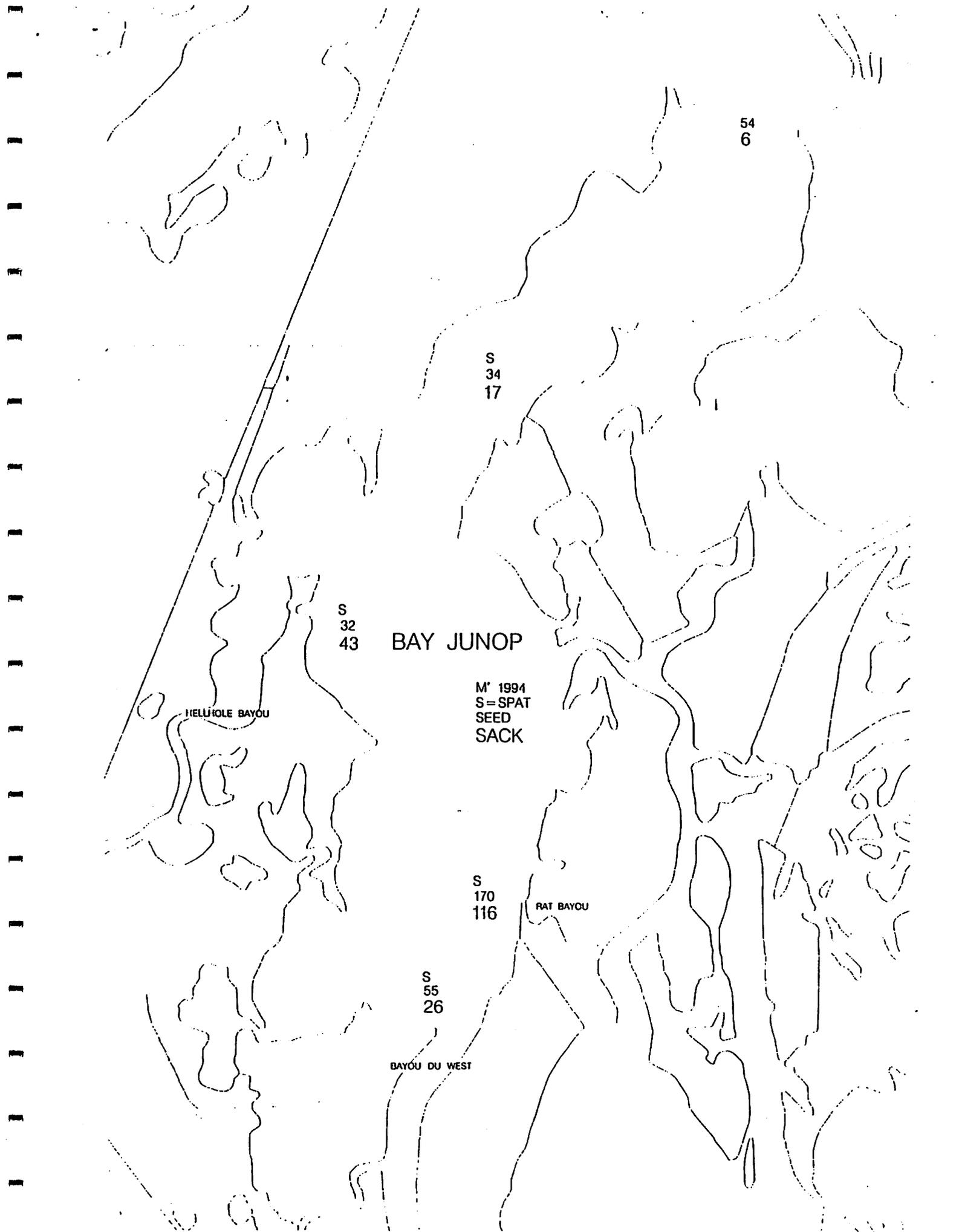
1994 SISTER LAKE OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYS.	# SACK OYS.	BBLS SEED	BBLS SACK
200	221.58	896,734.26	88.5	10.5	110,224	26,155
202	81.93	331,570.71	82.5	6.5	37,992	5,987
207	185.72	751,608.84	113.0	5.5	117,961	11,483
212	AVERAGED WITH STATION 207					
203	151.31	612,352	108.5	4.0	92,278	6,804
TOTALS					358,455	50,429

1995 SISTER LAKE OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYS.	# SACK OYS.	BBL'S SEED	BBL'S SACK
200	221.58	896,734.26	14	56.5	17,436	140,737
202	81.93	331,570.71	39	58.5	17,960	53,880
207	185.72	751,608.84	12	0	12,527	0
212	AVERAGED WITH STATION 207					
203	151.31	612,352	50	118	42,524	200,715
TOTALS					90,447	395,332

Bob4/sslak95.raw



54
6

S
34
17

S
32
43

BAY JUNOP

M¹⁹⁹⁴
S = SPAT
SEED
SACK

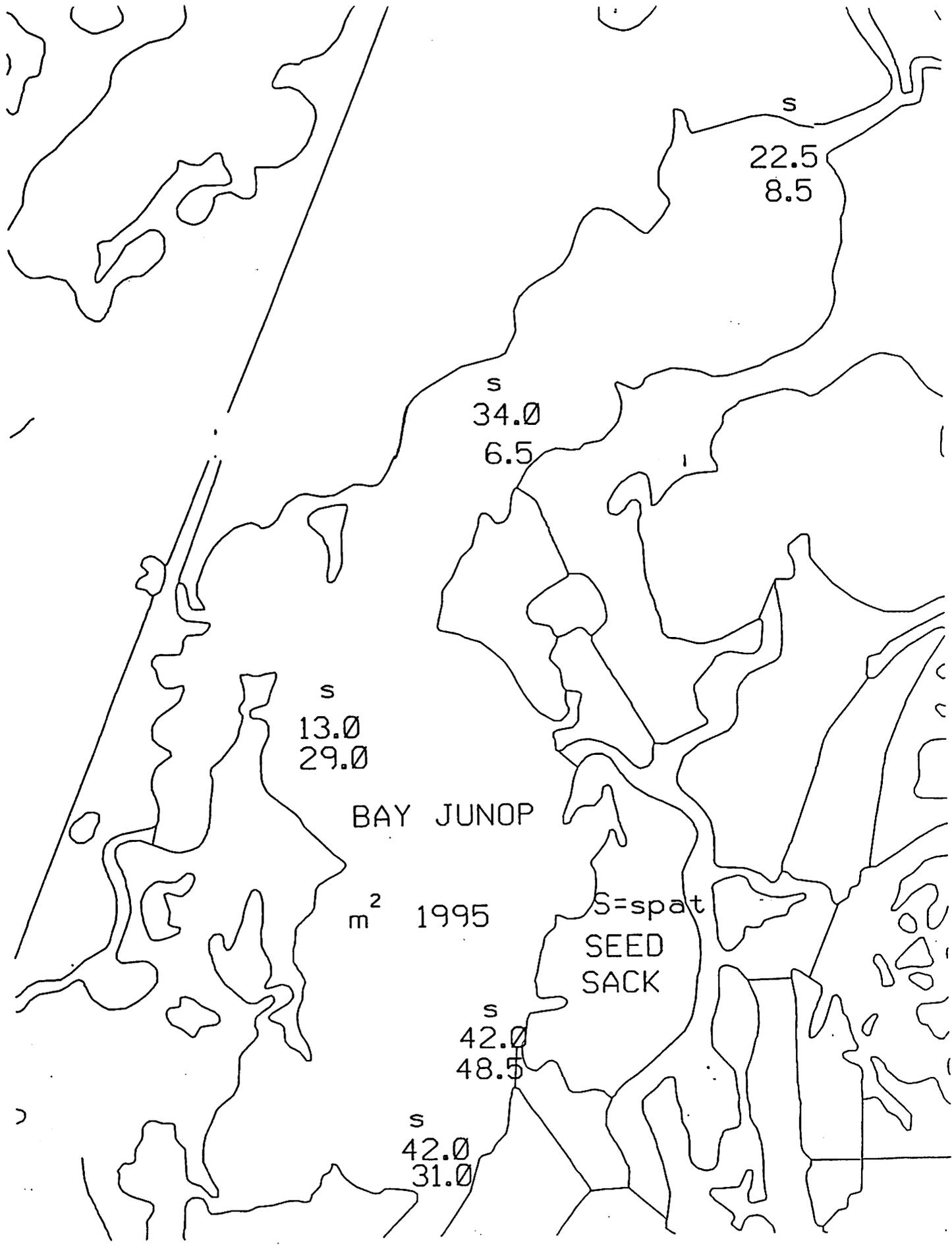
HELLHOLE BAYOU

S
170
116

RAT BAYOU

S
55
26

BAYOU DU WEST



BAY JUNOP

m² 1995

S=spat
SEED
SACK

1994 BAY JUNOP OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYS.	# SACK OYS.	BBLs SEED	BBLs SACK
251	17.2	69,284.64	54.5	6.0	5,244	1,155
253	73.26	296,483.22	34.0	17.0	14,001	14,001
254	94.20	381,227.40	32.0	43.0	16,943	45,535
252	67.36	272,605.92	112.8	70.8	42,708	53,612
255	AVERAGED WITH STATION 252					
TOTALS					78,896	114,303

1995 BAY JUNOP OYSTER AVAILABILITY

METER ² STATION	REEF ACREAGE	# METER ²	# SEED OYS.	# SACK OYS.	BBLS SEED	BBLS SACK
251	17.2	69,284.64	22.5	8.5	2,165	1,636
253	73.26	296,483.22	34.0	6.5	14,000	5,353
254	94.20	381,227.40	13.0	29.0	6,883	30,710
252	67.36	272,605.92	42.0	39.8	15,902	30,138
255	AVERAGED WITH STATION 252					
TOTALS					38,950	67,837

Bob#4/Bay Junp95.raw

COASTAL STUDY AREA VI
PETE JUNEAU

COASTAL STUDY AREA VII
DUDLEY CARVER

OYSTER PRODUCTION IN CALCASIEU LAKE AUGUST 1995

OYSTER NUMBERS

WESTSIDE					EASTSIDE				
SIZE	STATION			AVE.	SIZE	STATION			AVE.
	4	5	6			1	2	3	
> 3"	40	63	81	30.7	> 3"	64	33	29	21.0
1-3"	34	28	60	20.3	1-3"	28	38	31	16.2

OYSTER PRODUCTION AREA

WESTSIDE	EASTSIDE
2,942,076.67 SQ. METERS	3,901,185.57 SQ. METERS

PRODUCTION OF > 3" OYSTERS

WESTSIDE		EASTSIDE	
OYSTERS:	90,321,753.769	OYSTERS:	81,924,896.970
SACKS:	501,788	SACKS:	455,138
TOTAL SACKS OF > 3" OYSTERS:		956,926	

PRODUCTION OF 1-3" OYSTERS

WESTSIDE		EASTSIDE	
OYSTERS:	59,724,156.401	OYSTERS:	63,199,206.234
SACKS:	165,900	SACKS:	175,553
TOTAL SACKS OF 1-3" OYSTERS:		341,453	

TOTAL PRODUCTION

TOTAL OVERALL POTENTIAL OF OYSTERS (SACKS):	1,298,379
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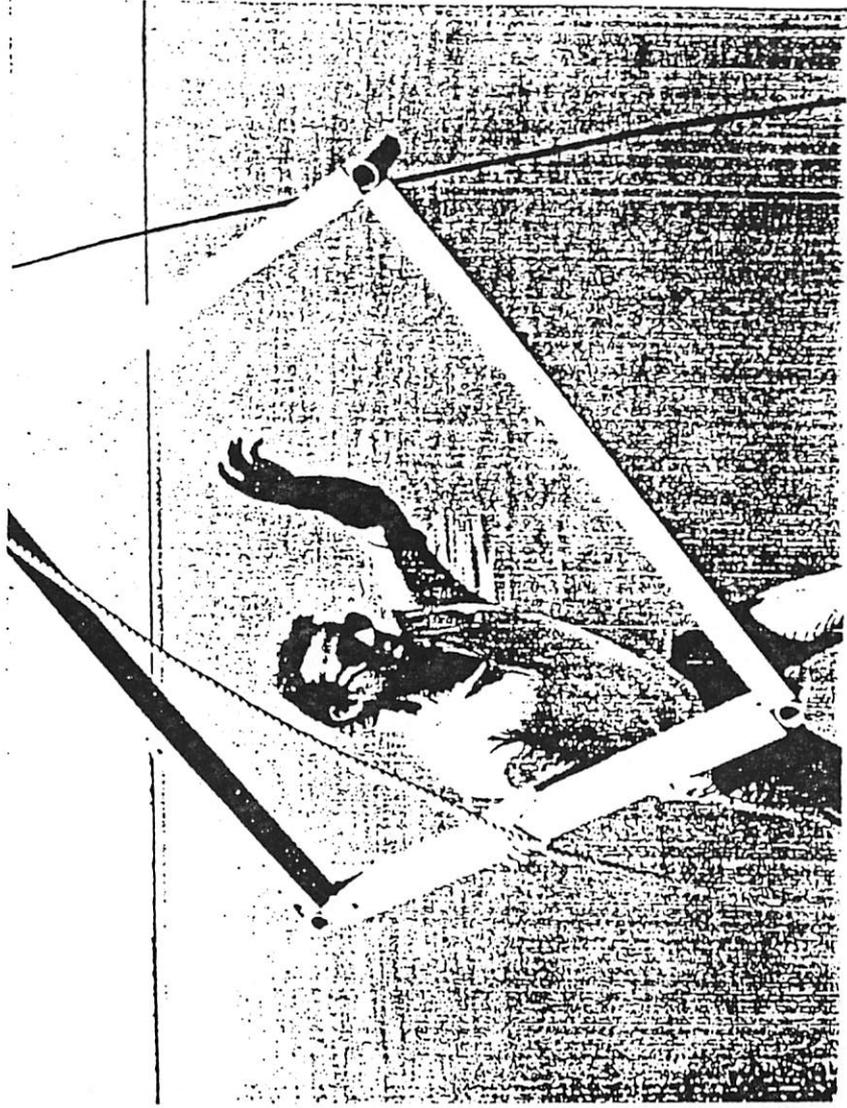


Figure 3. Meter square sampling for oyster densities on the "Public Grounds".