1999/2000 - OYSTER DATA REPORT

Series No. 5

1999 and 1998 Square Meter Numbers

PREPARED BY:

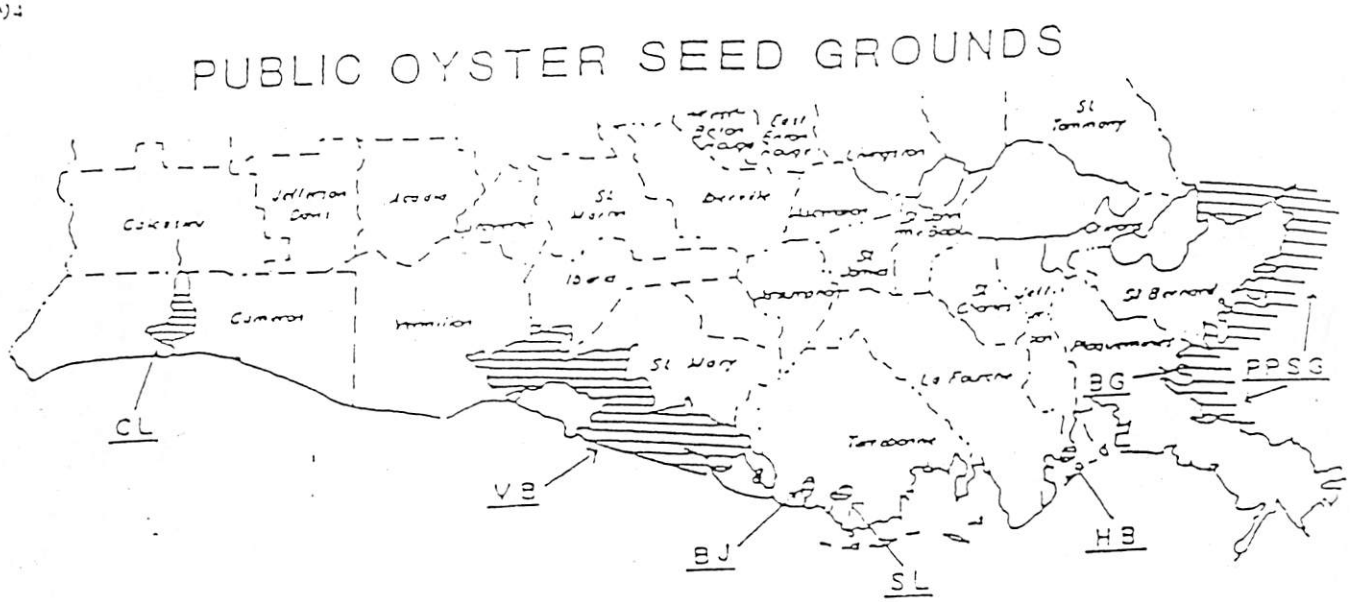
RONALD J. DUGAS

LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES

July 1999

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.



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.

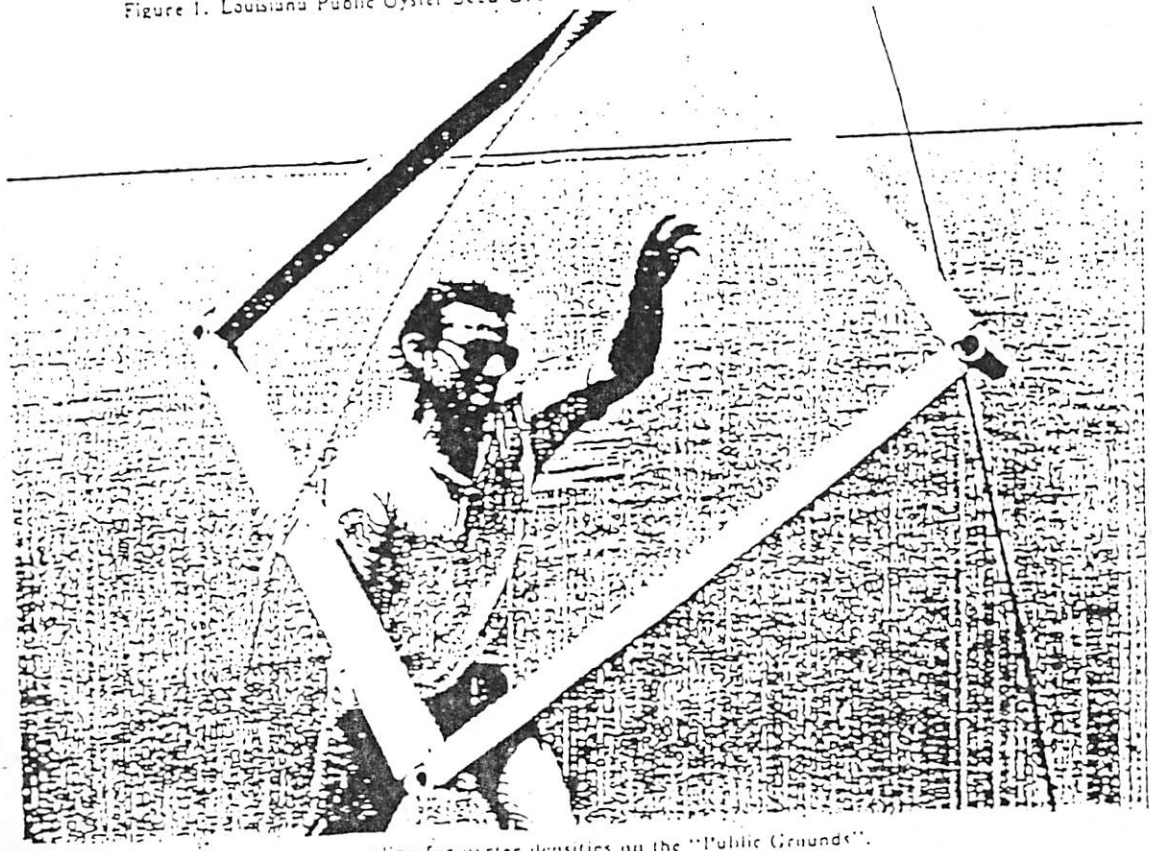
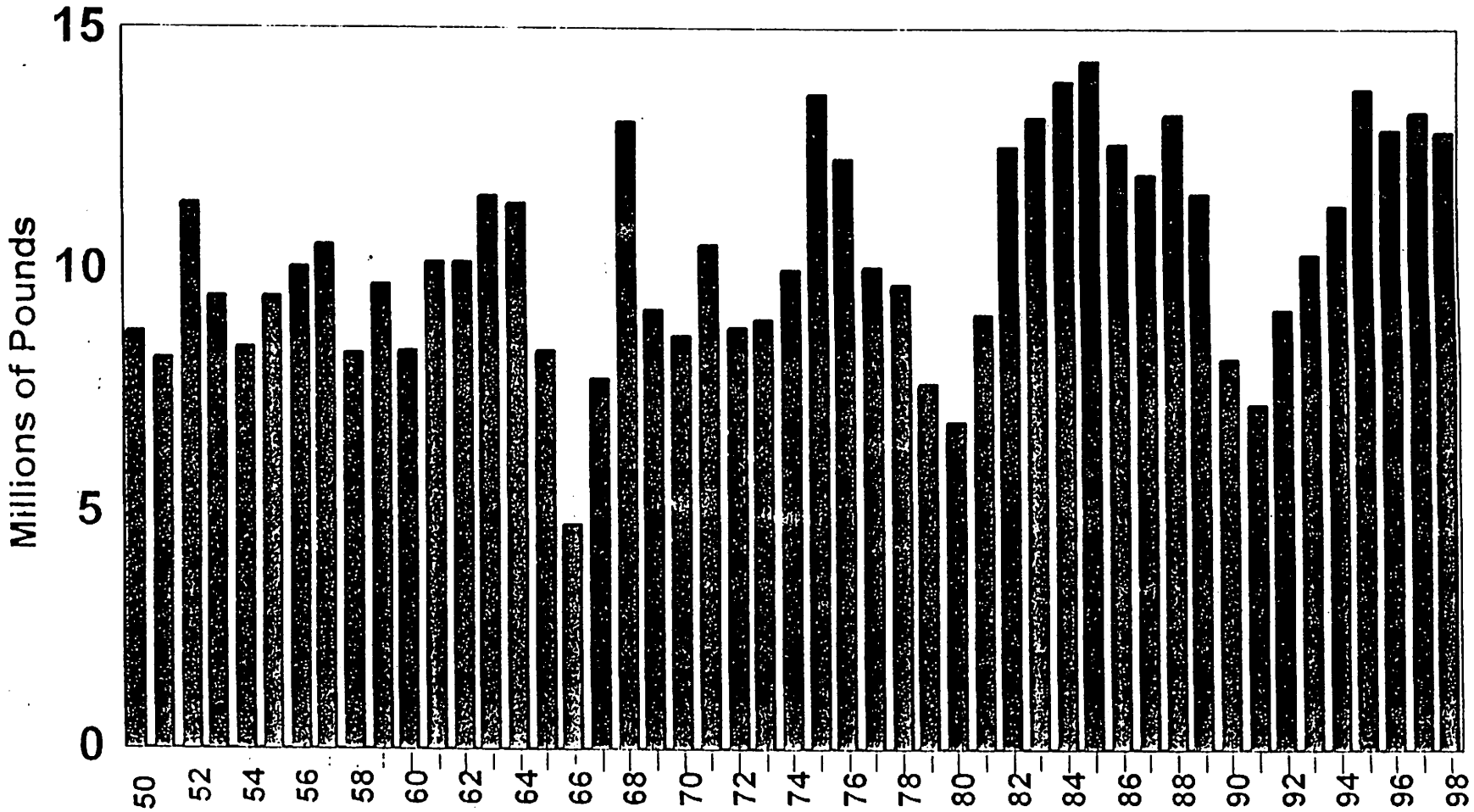


Figure 3. Meter square sampling for oyster densities on the "Public Grounds".

Louisiana Oyster Landings

production 1950 thru 1998

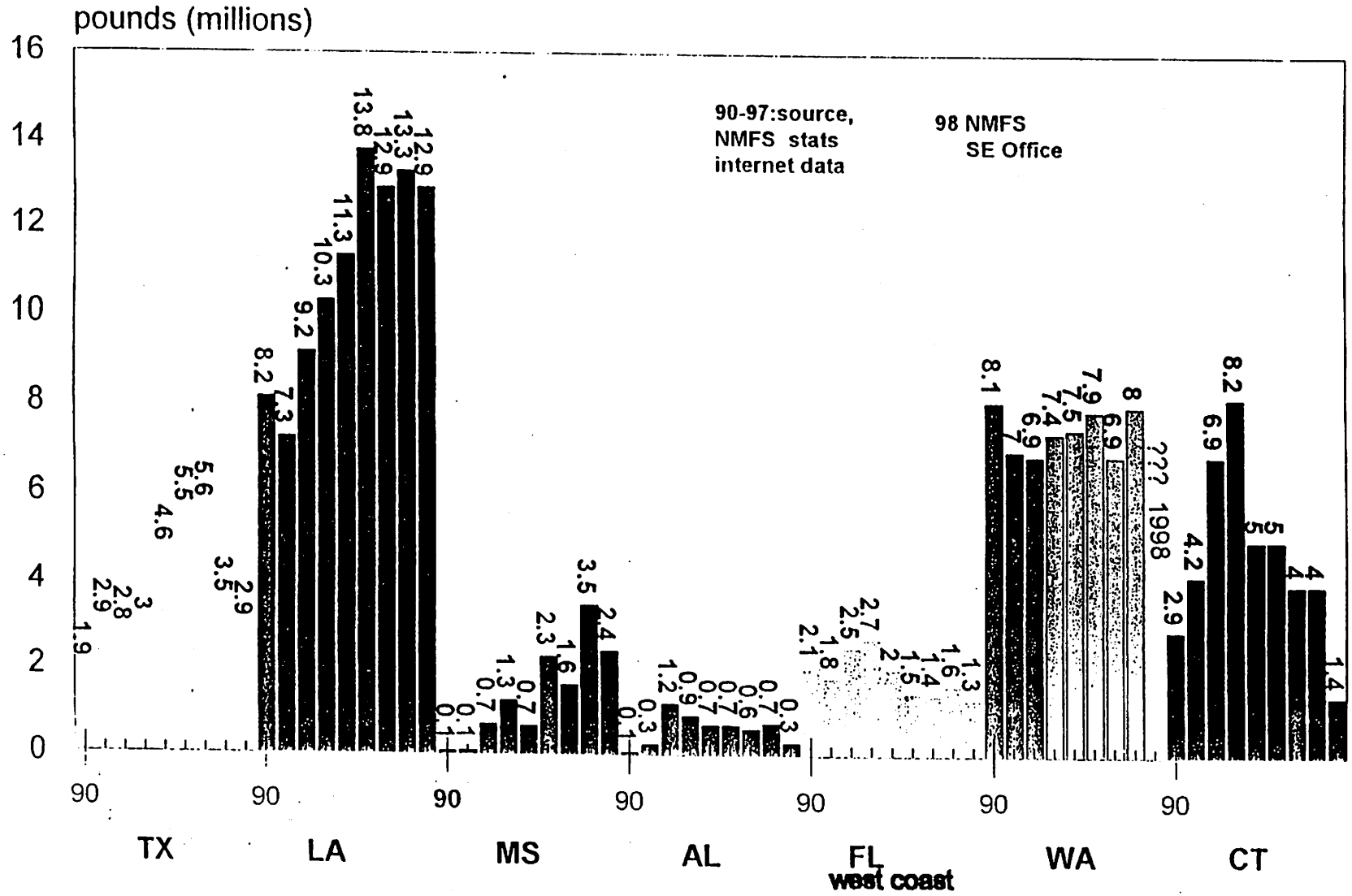


source: NMFS internet data, preliminary '98 LDWF data

OYSTER LANDINGS

1990 -1998 by KEY STATE

'98 PRELIMINARY

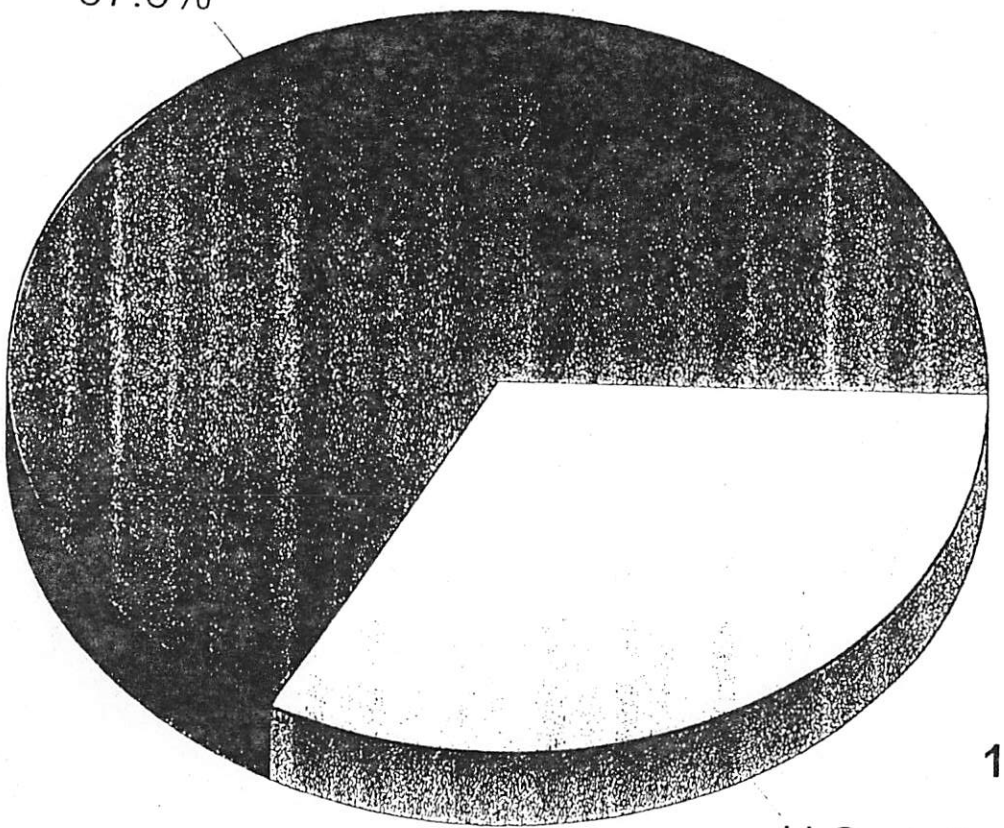


1997 OYSTER LANDINGS

Gulf of Mexico Portion of U.S. Landings

22.4 million lbs.

GULF
67.6%



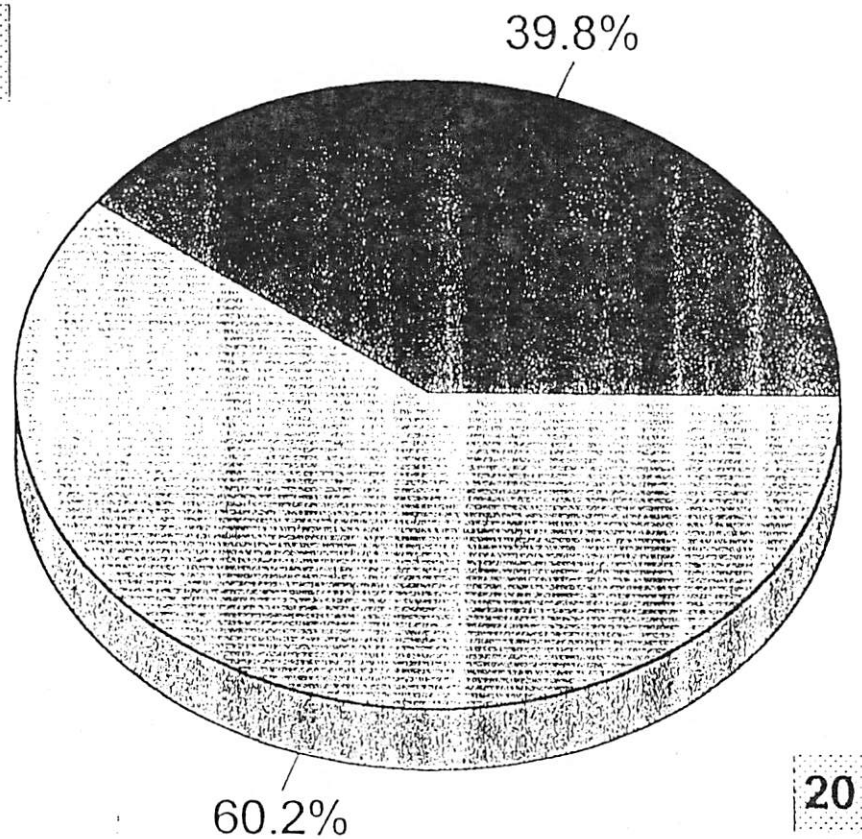
10.8 million lbs.

U.S. (other states)
32.4%

NMFS Internet data

1997 OYSTER LANDINGS

in MILLIONS OF POUNDS



Total U.S. 33.2 M

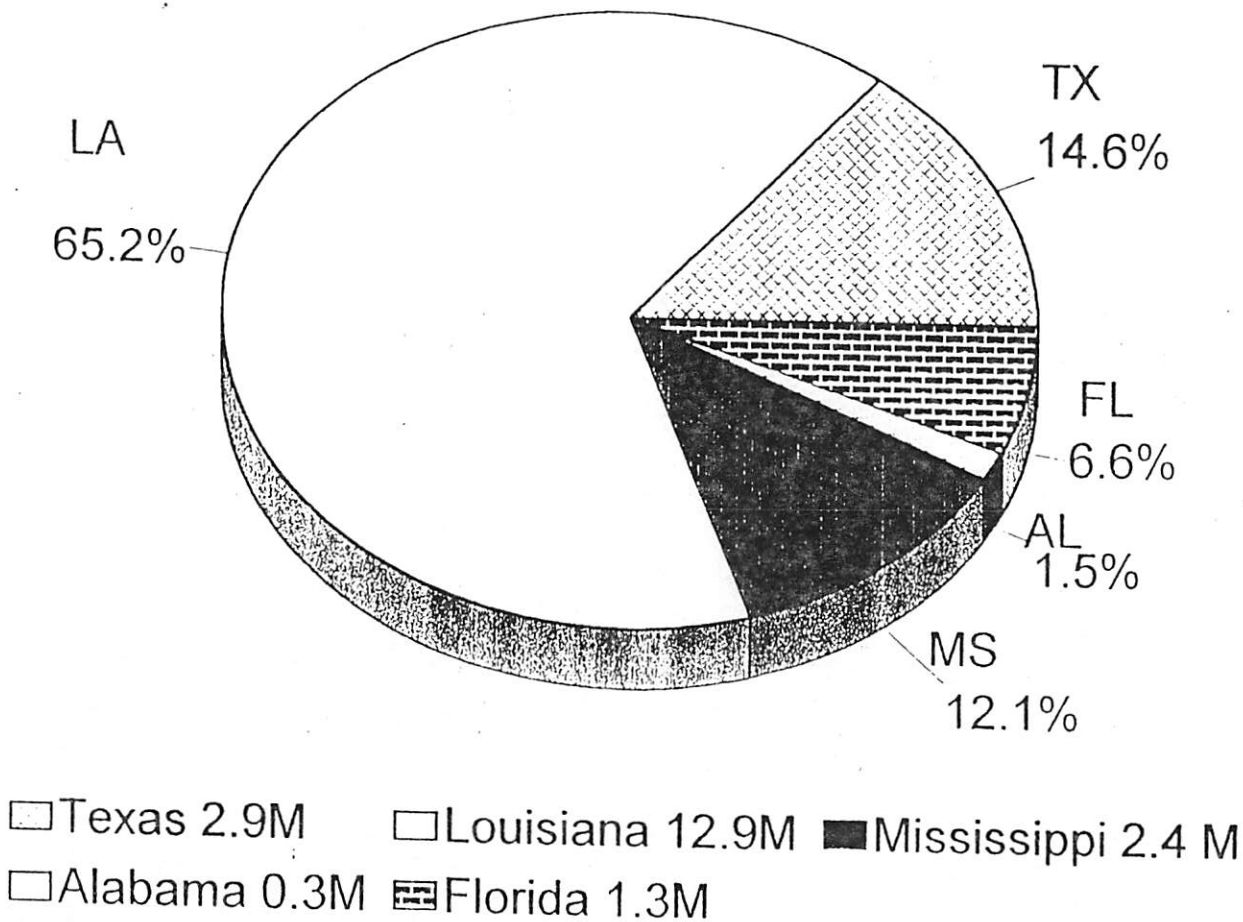
LOUISIANA

U.S. PRODUCTION (other states)

NMFS statistics

1998 OYSTER LANDINGS

Gulf of Mexico by State



Preliminary

July 1998 M^2 SAMPLES

AND

STOCK ASSESSMENT

COASTAL STUDY AREA I
JOHN BURDON

State of Louisiana

James H. Jenkins, Jr.
Secretary

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

M.J. "Mike" Foster
Governor

8.8

TO: Ron Dugas, Oyster Prog. Mgr.
From: John Burdon, Sup./ CSA-I
Reference: Oyster Square Meter Samples / Projected Production
Date: July 228, 1998

The following information on oysters by square meter analysis and estimated production based on the samples is presented. An assessment of hooked mussel fouling is also included.
Spat (< 25mm) , Seed (26 mm - 74 mm) , Sack (Market) (75 mm >)

Hospital Wall (sta. 1) Avg. Sal. 6.7 ppt.
No oysters or hooked mussels were retrieved from this location.

Grassy Island (sta.2) Avg. Sal. 15.0 ppt.
Sq .meter sample 1. Seed - 1 Sack - 1
Hooked Mussels - 98 total , Size range of 20 mussels (15 mm - 49mm)

Sq. Meter sample 2. Seed - 3 Sack - 2
Hooked Mussels - 136 total, Size range of 20 mussels (5mm - 39mm)

Grand Island (Half moon) (sta. 3) Avg. Sal. 10.7 ppt.
Sq. Meter sample 1. Seed - 1 Sack -1
Hooked Mussels - 552 total , Size range of 20 mussels (15mm - 49mm)

Sq. Meter sample 2. No Oysters
Hooked Mussels - 410 total , size range of 20 mussels (10mm - 44mm)

Petit Pass (sta. 4) Avg. Sal. 11.5 ppt.
Sq. Meter sample 1. Seed - 1
Hooked Mussels - Prevalent in dredge samples , not present in sq. meter samples

Sq. Meter sample 2. No Oysters
Hooked Mussels - Prevalent in dredge samples , not present in sq. meter samples

Three Mile Bay (sta.5) Avg. Sal. 15.8 ppt.
Sq. Meter sample 1. Spat - 3 , Seed - 26 , Sack - 10
Hooked mussels - 22 total , size range of 20 mussels (10mm -54mm)

Sq. Meter sample 2. Spat - 2 , Seed - 31 , Sack - 18
Hooked mussels - 68 total , size range of 20 mussels (10mm - 49mm)

Grand Pass (sta. 6) Avg. Sal. 18.7 ppt.
Sq. Meter sample 1. Seed - 14 , Sack - 7
Hooked mussels - 1 total Size 5-9mm

Grand Pass (sta.6) Avg. Sal. 18.7
Sq.Meter sample 2. Spat - 1 , Seed - 34 , Sack - 16
Hooked mussels - 2 total Both size 10-14mm

Cabbage Reef (sta. 7) Avg. Sal.21.7 ppt.
Sq. Meter sample 1. Seed - 13 , Sack - 2
Hooked mussels - None Present

Sq. Meter sample 2. Seed - 6 , Sack - 11
Hooked mussels - None Present

Martin Island (sta. 9) Avg. Sal. 18.2 ppt.
Sq. Meter samples 1 and 2. No oysters or Hooked mussels present.

Holmes Island (sta. 10) Avg. Sal. 24.7 ppt.
Sq. Meter samples 1 and 2. No oysters or Hooked mussels present.

Turkey Bayou (sta.11) Avg. Sal. 16.5 ppt.
Sq. Meter sample 1. Seed - 11, Sack - 9
Hooked mussels - 14 total Size range 10- 39mm

Sq. Meter sample 2. Seed - 11 , Sack -5
Hooked mussels - 1 total Size 30-34mm

cc: Bob Ancelet, Bio. Sup./CSA-2
Claude Boudreaux, Asst. Div. Adm. Mar. Fish.

Attachments (2) Oyster Availability Location Map.....Seed/ Sack

1998 CSA 1 Meter Square Results Revised

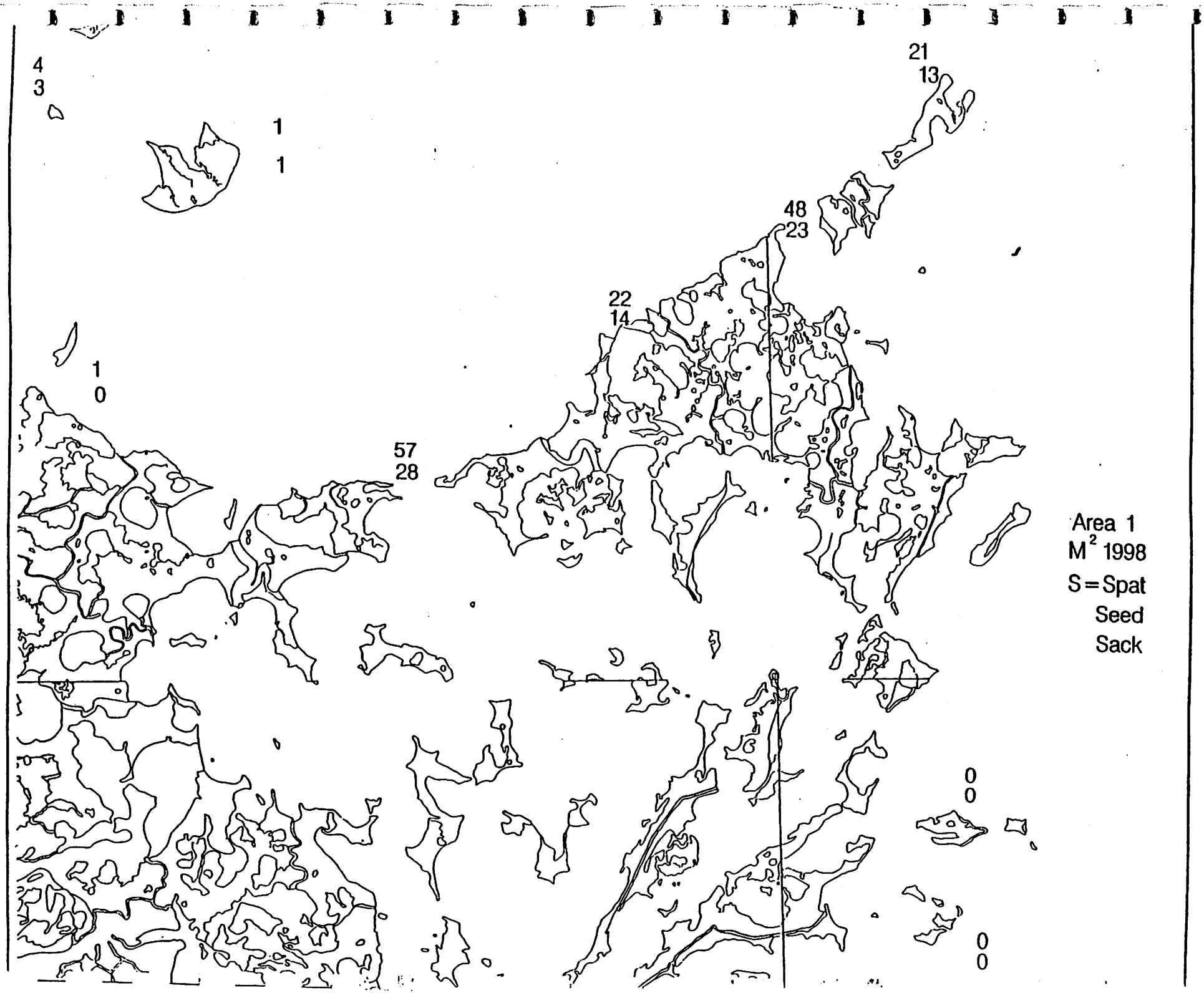
Station Name	Station Number	Reef Acreage	Reef Sq. Meters	Avg per frame seed	Avg per frame sack	Bbls Seed	BblsSack	spat	mussels	drills present
Hospital	1	376.07	1,521,955.29	0	0	0	0			
Grassy	2	6850.17	27,722,638.00	2	1.5					
Halfmoon	3			0.5	0.5					
Petit	4			0.5	0					
	2-4			1.00	0.67	38,504	51,338			
3 Mile	5	3058.65	12,378,356.55	28.5	14.5	489,977	498,573			
Grand Pass	6	1801.76	7,291,722.72	24	11.5					
Cabbage	7			9.5	6.5					
Turkey	11			11	7.5					
	6-11			14.83	8.50	150,223	172,166			
Martin Is	9	4155.7	16,818,117.90	0	0					
Holmes Is	10			0	0					
	9-10			0.00	0.00	0	0			
2000 SP	12	70	283,290	0	0	0	0			

Total		678,703	722,077
Combined Total		1,400,780	

1998 COASTAL STUDY AREA I OYSTER AVAILABILITY

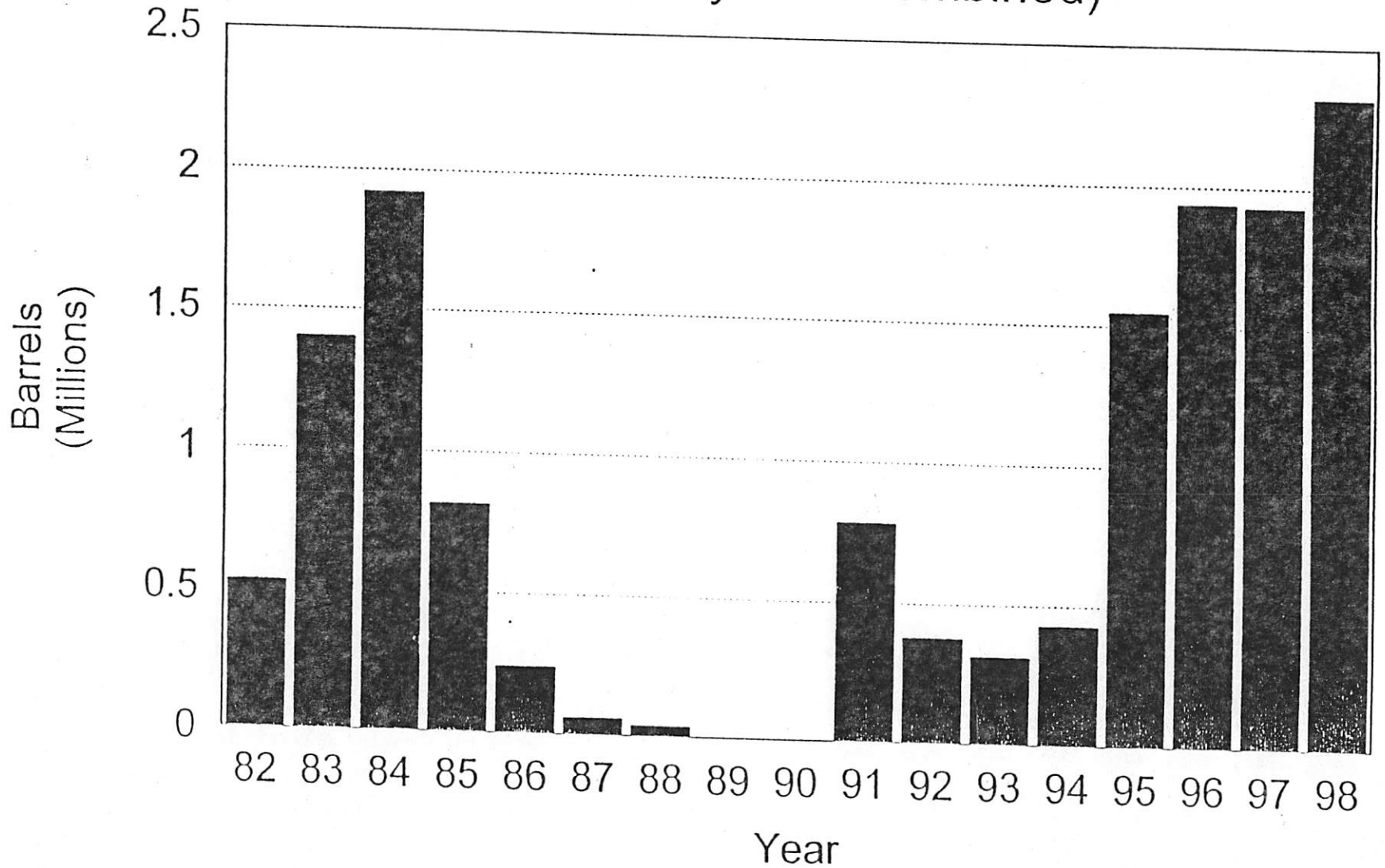
Meter² Station	Reef Acreage	# Meter²	#Seed Oyster	#Sack Oyster	BBLS Seed	BBLS Sack
001	376.07	1,521,955.29	0	0	0	0
002			2	2		
003			1	1		
004			1	1		
002-004	6850.17	27,722,638.00	4	3	154,015	231,022
005	3058.65	12,378,356.55	24	15	412,612	515,765
006			24	12		
007			10	7		
008			—	—		
011			11	8		
006-011	1801.76	7,291,722.72	45	27	455,733	546,879
009			0	0		
010			0	0		
009-010	4155.70	16,818,117.90	0	0	0	0
Lake Pont.	631.27	2,554,749.69	—	—	—	—
ELO1	2691.84	10,893,876.48	—	—	—	—
TOTALS					1,022,360	1,293,666

Bob3/csaitab.raw


4
3
1
1
21
13
48
23
22
14
1
0
57
28
0
0
0
0
Area 1
M 2 1998
S = Spat
Seed
Sack

Oysters Available on the Public Grounds in Coastal Study Area I

(Seed and Sack Oysters Combined)



COASTAL STUDY AREA II
ROBERT L. ANCELET

State of Louisiana

James H. Jenkins, Jr.
Secretary

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

M.J. "Mike" Foster
Governor

August 5, 1998

M E M O R A N D U M

TO: Ron Dugas, Oyster Program Manager

FROM: Robert L. Ancelet, Biologist Supervisor
Coastal Study Area II

SUBJECT: CSA II Meter Square Samples (1998)

Personnel from Coastal Study Area II completed the 1998 meter square sampling project on July 28, 1998. A total of 28 stations were sampled from Bay Gardene and Northern Black Bay to Breton Sound. The stock assessment for seed oysters was down by 572,325 barrels, while sack oyster availability was down by 1,092,468. We found 1,524,350 barrels of seed oysters and 777,678 barrels of sack oysters. Ample seed oysters were found at : Snake Island, Bayou Lost, West Stone Island, Bay crab, Bel la Pass, and Bay Gardene. Sack oysters appear to be more numerous at: Bayou Lost, West Stone Island, Iron Banks, Snake Island, and Bay Gardene.

An overall decrease in our stock assessment for this year is attributed to the loss of sack oysters at the outer more saline stations and Lake Fortuna.

Mussels were encountered at all stations except 28, the wreck, and 25, Battledore Reef. This may be misleading, since only station 24 in Bay Gardene at Bayou Fontanelle had a severe infestation. Measurements in mm of 20 mussels (all if sample contained less than 20) and counts were made at each station (see attachment) and reported herein.

Assessment by station are presented in tabular form (see table). A map of spat, seed, and sack oysters is included.

RLA:ymw

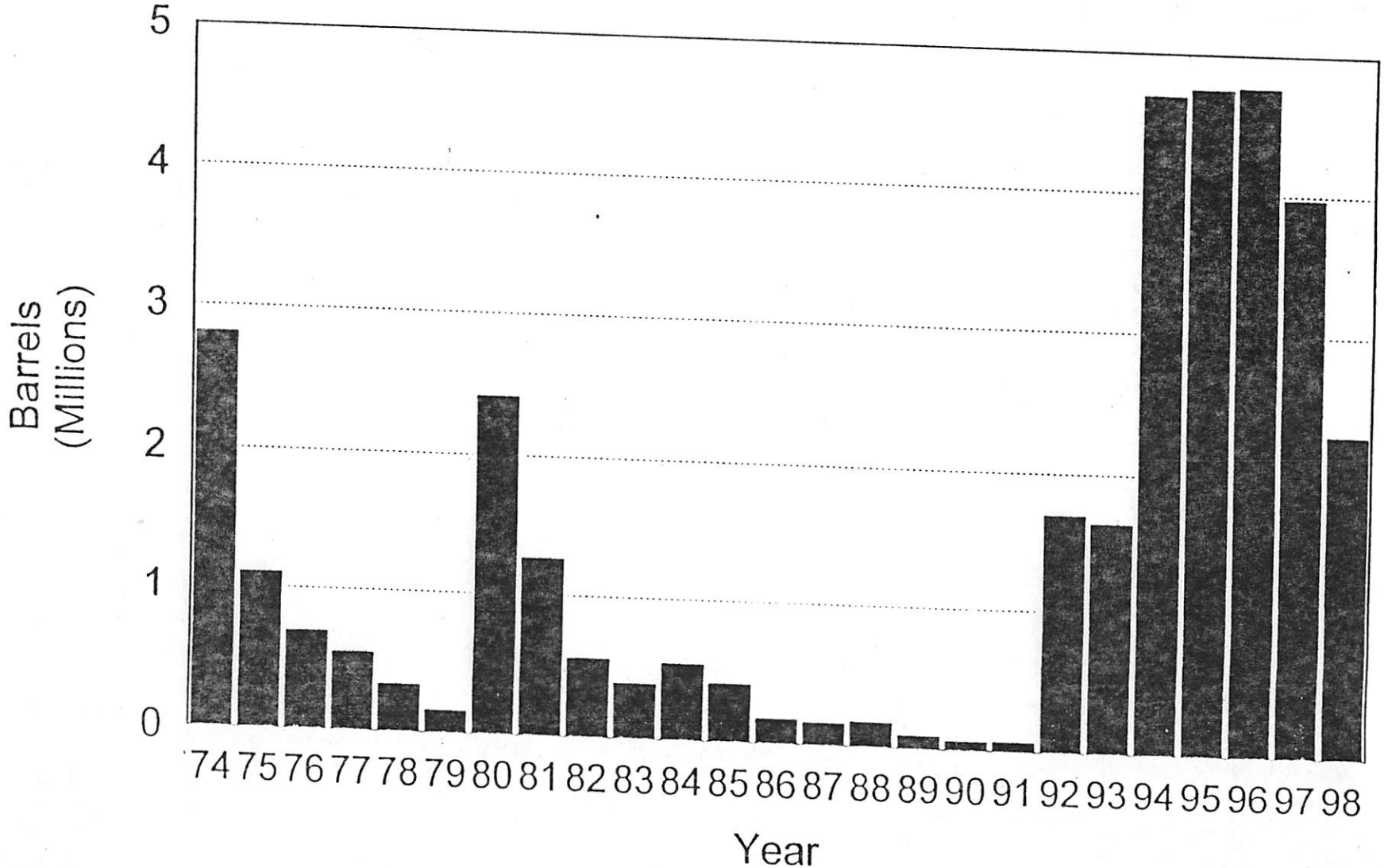
COASTAL STUDY AREA II
1998 OYSTER AVAILABILITY

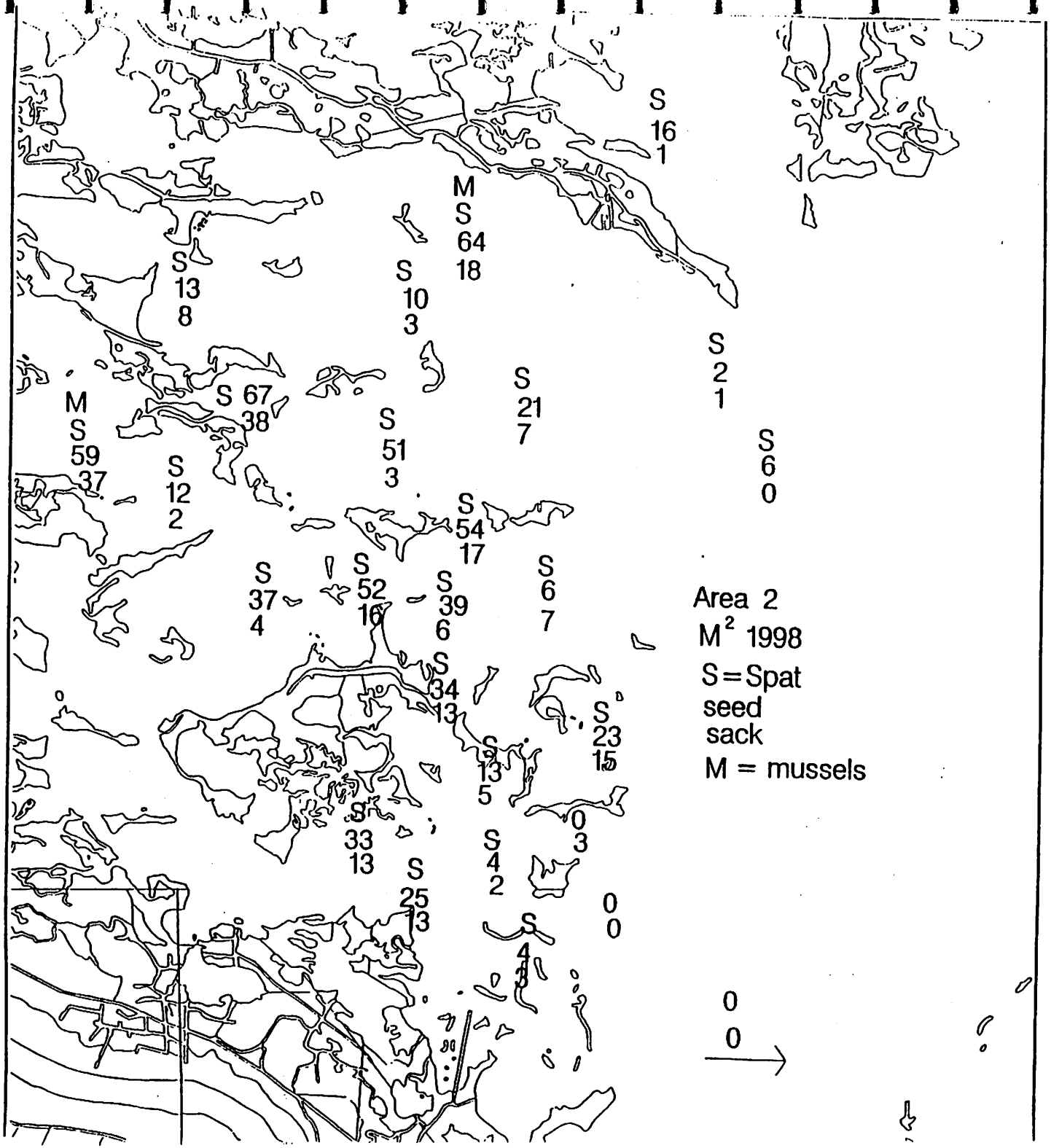
Meter² Station	Grids	Acres	Meter²	# Seed Oys	# Sack Oys	BBLS Seed	BBLS Sack
1	1,2,3,4,8,9, 10	506	2,047,782	64	18.3	182,025	104,096
2	7,6,5,11, 12	59	283,773	12.67	7.67	4,994	6,046
3	13,14,15	896	3,626,112	9.67	2.67	48,701	26,894
5	17,18,25,24	118	477,546	67	37.67	44,438	49,970
6	20,21,16	716	2,897,652	20.67	7	83,187	56,343
7	19,26,27	301	1,218,147	17	4.33	28,762	14,652
8	31,36,32	501	2,027,547	36.67	4.33	103,264	24,387
9	33,34,35	461	1,865,667	53.67	17.33	139,070	89,811
10	40,44	145	586,815	6	7	4,890	11,410
11	42,43,46	339	1,371,933	34.33	14.33	65,414	54,610
12	47	425	1,719,975	23.33	15.33	55,732	73,242
13	50,51	109	441,123	15.33	5.33	8,167	6,531
14	48,49	7	28,329	33.33	13.67	1,311	1,076
16	62,63,64	174	704,178	25.33	12.67	24,773	24,783
17	52,53,54,55, 59,60	659	2,666,973	0	0	0	0
19	65,66,67,68	937	3,792,039	4.33	3	22,804	31,600
20	56,58	293	1,185,771	4	2	6,588	6,588
21	37,38,41	659	2,666,973	52.33	16	193,837	118,532
22	39	122	493,734	39.33	6	26,970	8,229
23	30,23	28	113,316	11.67	1.67	1,837	526
24	22,29	69	279,243	59.33	37	23,010	28,700
4	Horseshoe	315	1,274,805	2.33	1	4,125	3,541
15	Outside	127	513,969	.33	2.67	236	3,812
18	Outside	1,528	6,183,816	0	0	0	0
26	Same as #4						
25	Battledore	1,419	5,742,693	0	0	0	0
27	L. Fortuna	4,288	17,353,536	15.67	.67	377,679	32.299
28	Wreck	2,276	9,210,972	5.67	0	72,536	0
					Total	1,524,350	777,678
						2,302,028	

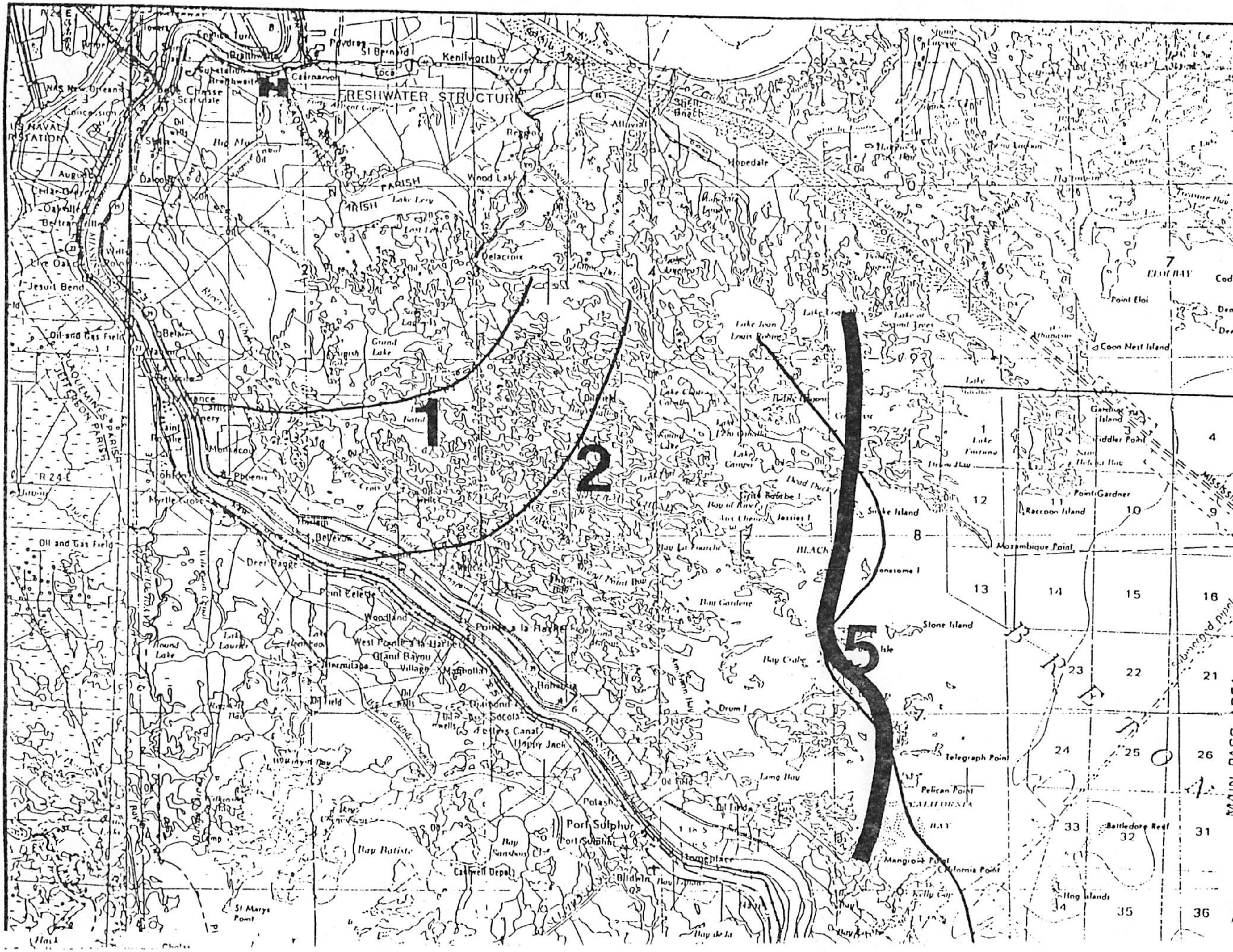
Bob/stocas98.tab

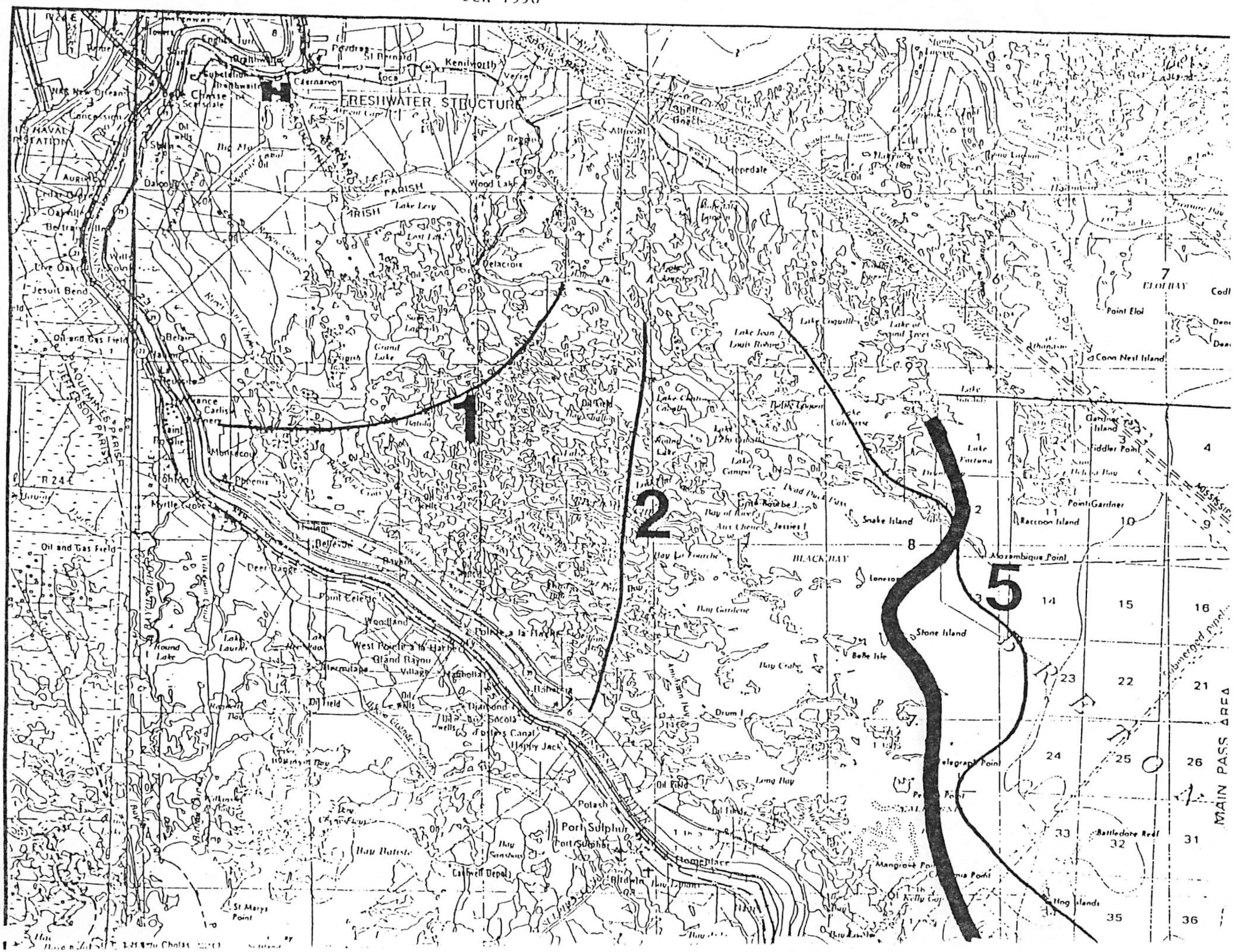
Oysters Available on the Public Grounds in Coastal Area II

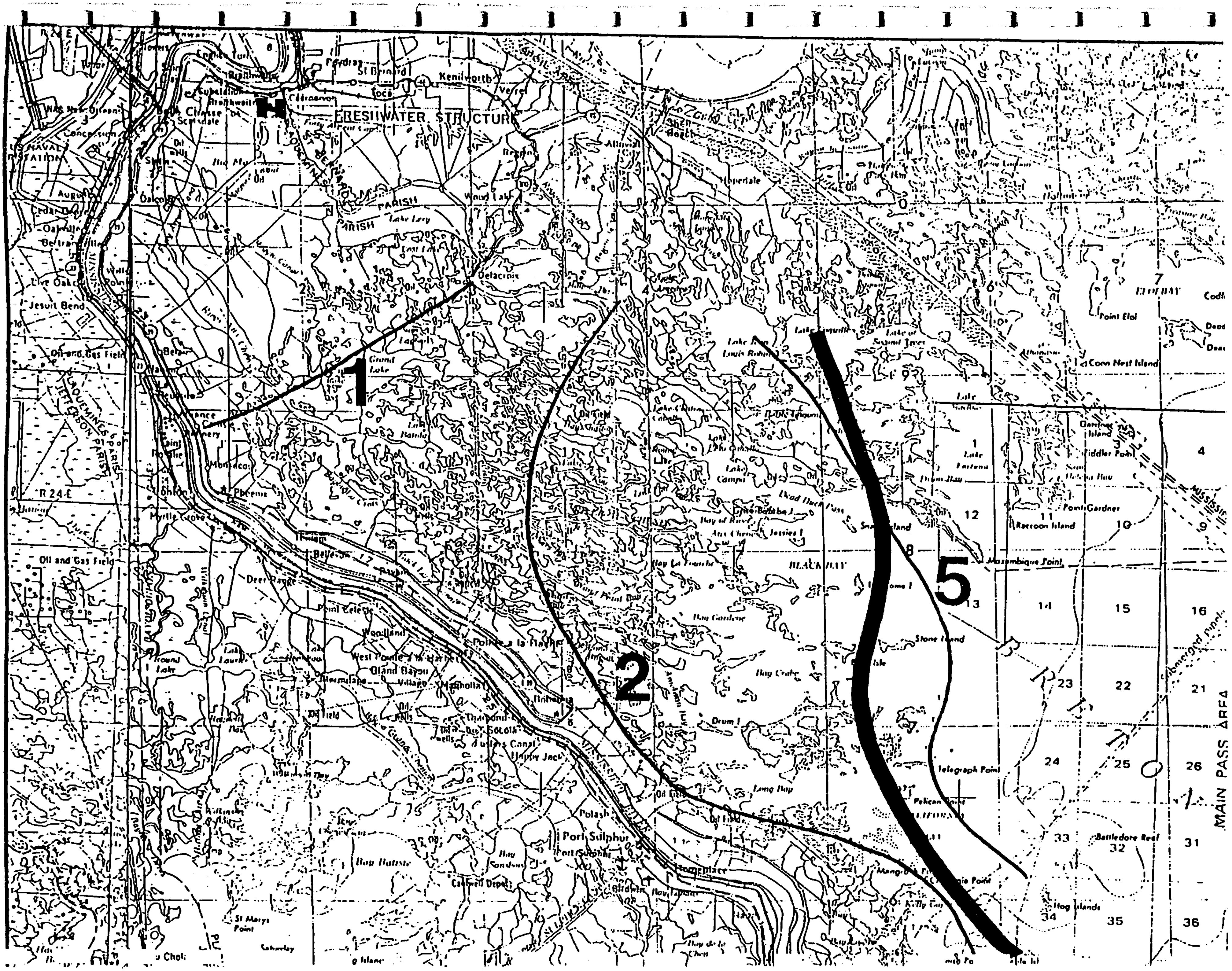
(Seed and Sack Oysters Combined)

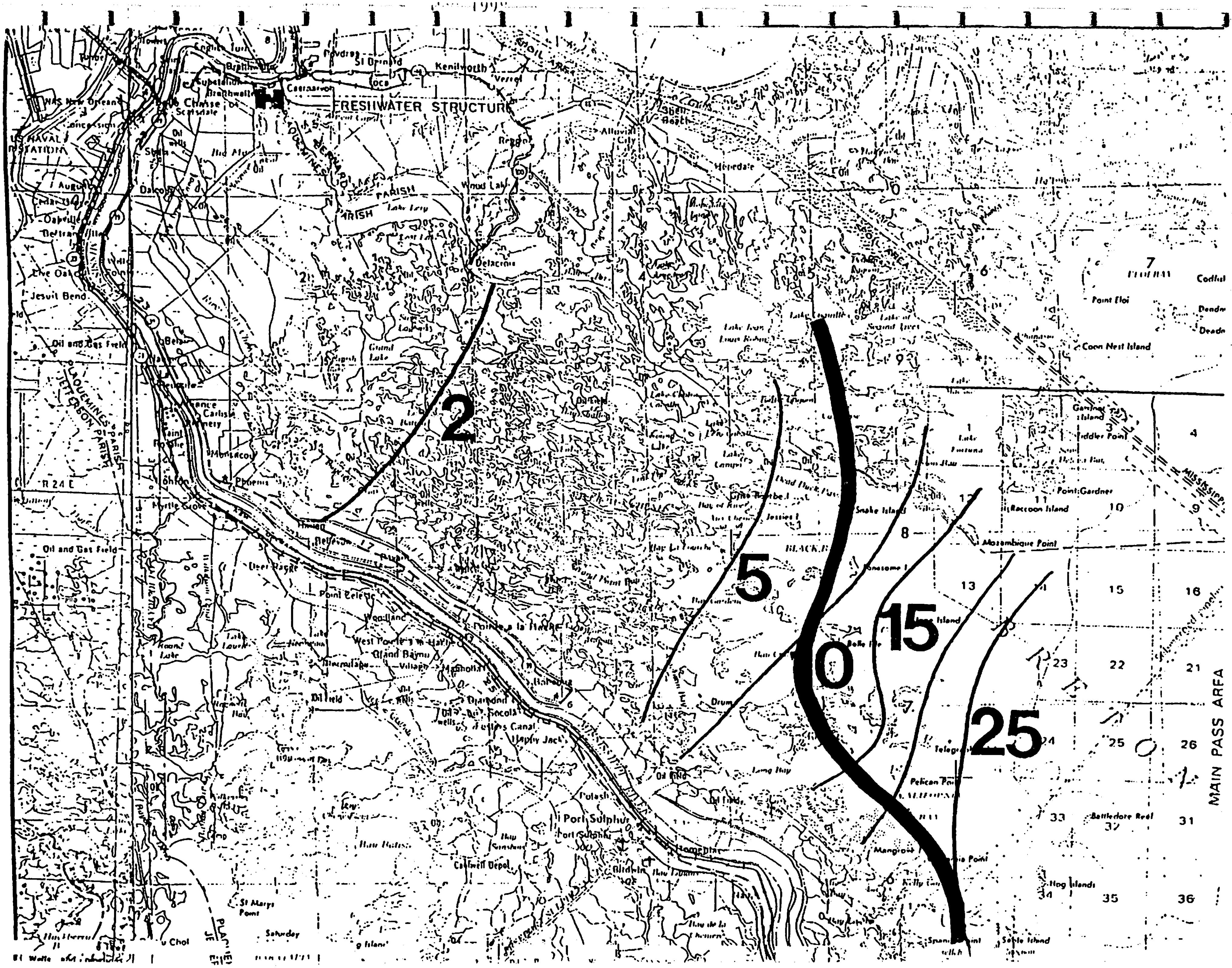


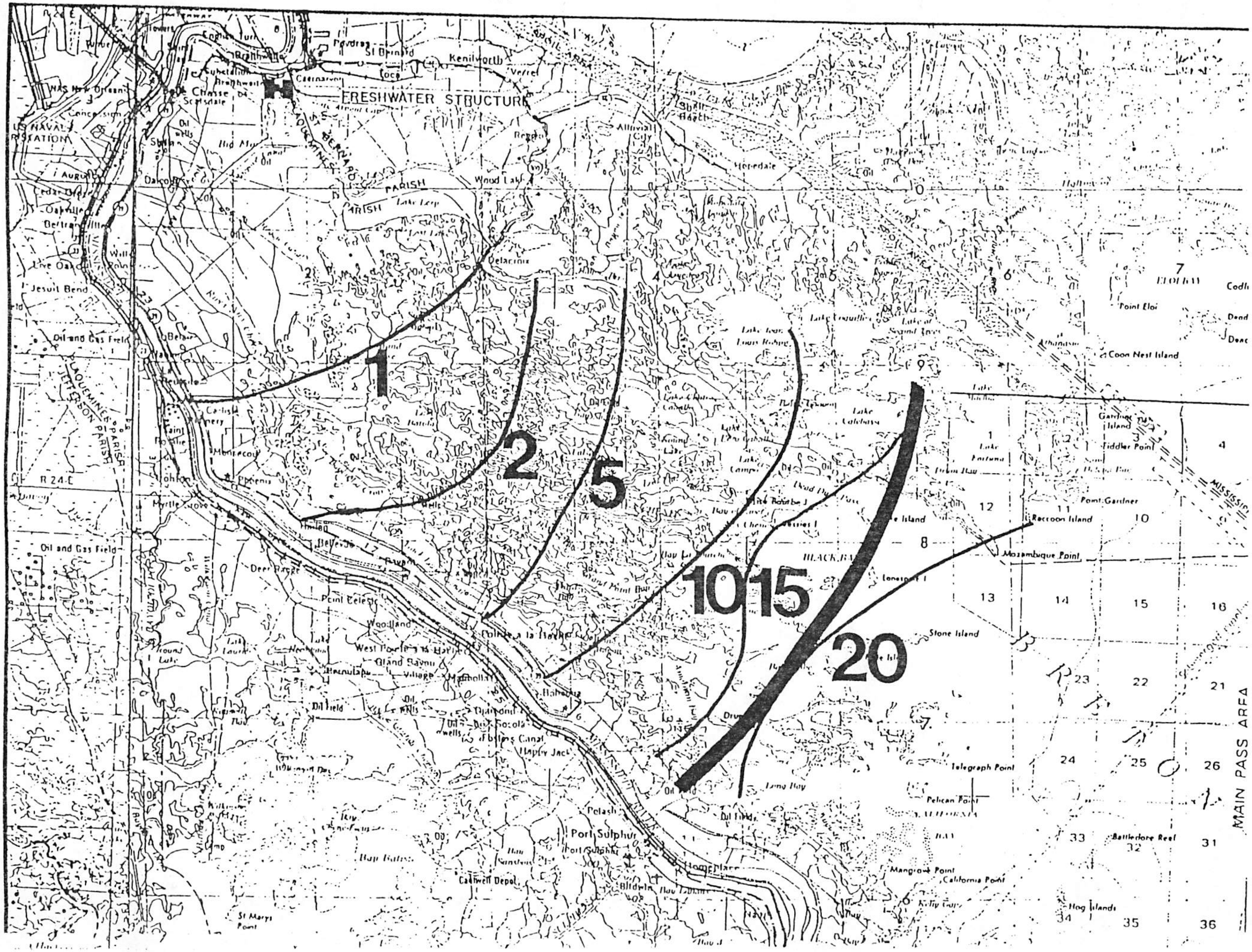

S 16 1
M S 64 18
S 13 8
S 10 3
S 2 1
M S 59 37
S 67 38
S 21 7
S 51 3
S 6 0
S 12 2
S 54 17
S 37 4
S 52 16
S 39 6
S 6 7
S 34 13
S 23 15
S 13 5
S 33 13
S 4 2
0 3
S 25 13
0 0
S 4 3
0 0
Area 2
M² 1998
S = Spat seed sack
M = mussels


FRESHWATER STRUCTURE
1
2
5
Kenilworth
St Bernard
Caernarvon
Braithwaite
Belle Chasse
Scarsdale
NAVAL STATION
Delacroix
Wood Lake
Hopedale
Alluvial City
Jesuit Bend
Oil and Gas Field
PLAQUEMINES PARISH
JEFFERSON PARISH
R 24 E
Phoenix
Grand Lake
Pointe a la Hache
West Pointe a la Hache
Point Celeste
Woodland
Happy Jack
Port Sulphur
Diamond
Socola
Bohemia
Deer Range
Round Lake
Bay Batiste
Caldwell Depot
Homeplace
St Marys Point
Drum I
Stone Island
Snake Island
Raccoon Island
Mozambique Point
Point Gardner
Fiddler Point
Coon Nest Island
Point Eloi
Telegraph Point
Pelican Point
Mangrove Point
California Point
Battledore Reef
Hog Islands
Bay Gardene
Bay Crabe
Long Bay
Lake Fortuna
MAIN PASS AREA
1
4
7
8
10
11
12
13
14
15
16
21
22
23
24
25
26
31
32
33
35
36


FRESHWATER STRUCTURE
1
2
5
MAIN PASS AREA
PLAQUEMINES PARISH
JEFFERSON PARISH
NAVAL STATION
Belle Chasse
Caernarvon
Kenilworth
Delacroix
Wood Lake
Hopedale
Point a la Hache
West Pointe a la Hache
Port Sulphur
Homeplace
Black Bay
Snake Island
Stone Island
Mozambique Point
Raccoon Island
Point Gardner
Telegraph Point
Battledore Reef
Bay Batiste
Round Lake
Deer Range
Point Celeste
Woodland
Happy Jack
Oil and Gas Field
Jesuit Bend
Live Oak
Point Eloi
Coon Nest Island
Lake Fortuna
Lake Campo
Bay Gardene
Drum I
Long Bay
Bay Crabe
Belle Isle
Fiddler Point

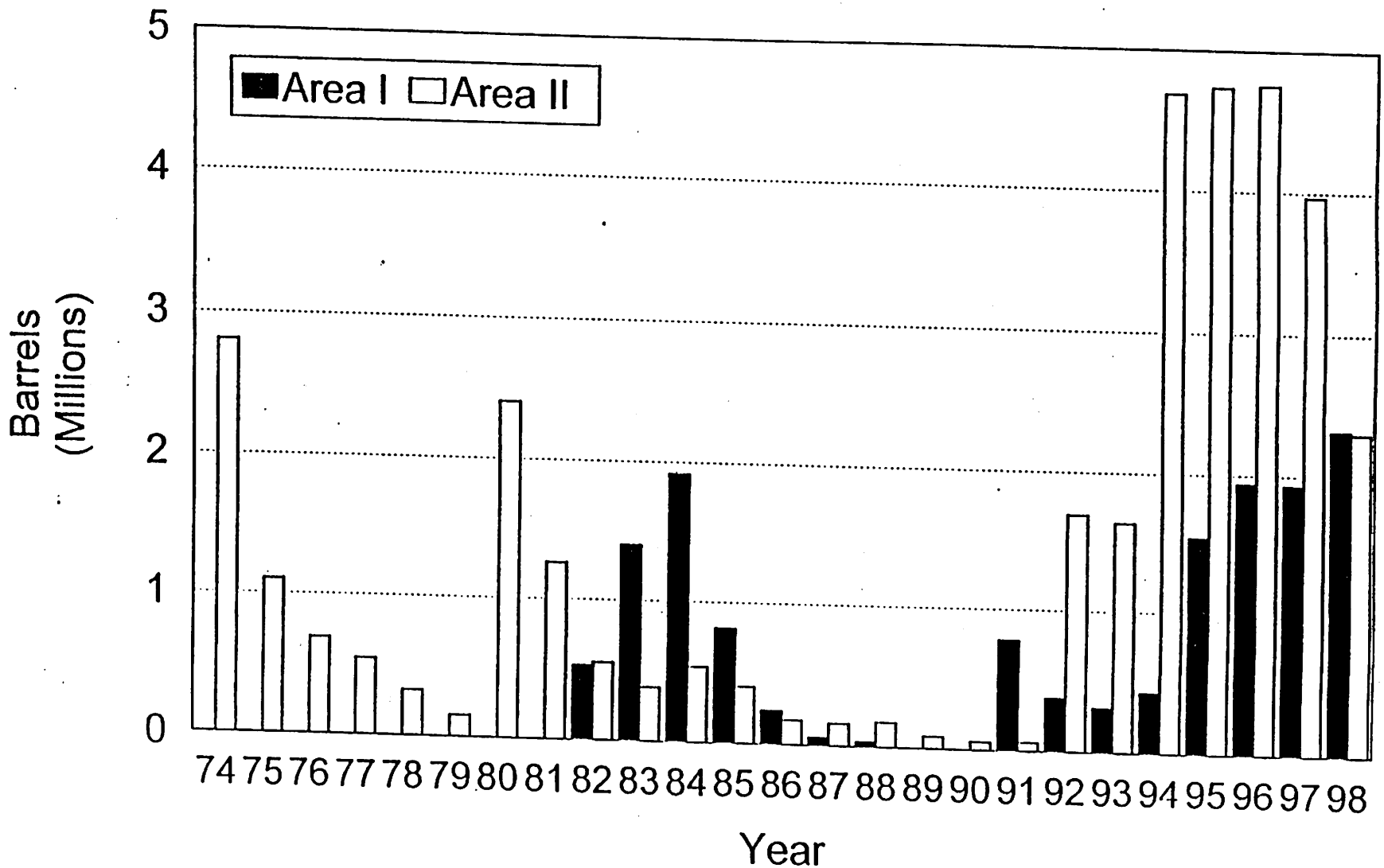

FRESHWATER STRUCTURE
1
2
5
MAIN PASS AREA
ST BERNARD PARISH
PLAQUEMINES PARISH
JEFFERSON PARISH
Kenilworth
Caernarvon
Poydras
Delacroix
Hopedale
Port Sulphur
Pointe a la Hache
Belle Chasse
Live Oak
Jesuit Bend
Oil and Gas Field
Deer Range
Point Celeste
Woodland
Myrtle Grove
Phoenix
Black Bay
Bay Gardene
Stone Island
Telegraph Point
Mozambique Point
Raccoon Island
Point Gardner
Fiddler Point
Point Eloi
Battledore Reef
Hog Islands
Corn Nest Island
Grand Lake
R 24 E


FRESHWATER STRUCTURE
MAIN PASS AREA
2
5
0
15
25
Kenilworth
Caernarvon
Delacroix
Scarsdale
Oil and Gas Field
Jesuit Bend
Live Oak
Belair
Myrtle Grove
Point Celeste
Woodland
Port Sulphur
Caldwell Depot
St Marys Point
Coon Nest Island
Point Floi
Point Gardner
Raccoon Island
Mozambique Point
Snake Island
Pelican Point
Battledore Reef
Hog Islands
Sable Island
Magnolia
Diamond
Happy Jack
Home Place
PLAQUEMINES PARISH
JEFFERSON PARISH
ST BERNARD PARISH
MISSISSIPPI


FRESHWATER STRUCTURE
1
2
5
10
15
20
MAIN PASS AREA
ST BERNARD PARISH
PLAQUEMINES PARISH
JEFFERSON PARISH
US NAVAL STATION
Kenilworth
Delacroix
Wood Lake
Alluvial City
Hopedale
Point Gardner
Raccoon Island
Mozambique Point
Stone Island
Telegraph Point
Pelican Point
Mangrove Point
California Point
Battledore Reef
Hog Islands
Coon Nest Island
Point Eloi
Gardner Island
Fiddler Point
Port Sulphur
Homeplace
Caldwell Depot
Point Celeste
Woodland
West Pointe a la Hache
Grand Bayou Village
Magnolia
Pointe a la Hache
Myrtle Grove
Jesuit Bend
Live Oak
Oil and Gas Field
Happy Jack
Deer Range
St Marys Point
R 24 E

Oysters Available on the Public Grounds East of the Mississippi River

(Seed and Sack Oysters Combined)



COASTAL STUDY AREA III
RANDY PAUSINA

Hackberry Bay Square Meter Samples.July 1, 1998

Hackberry	Meter Squared	1994 Cultch Site													
July 1,1998		OYSTERS													
CSA 3															1998
mm	work groups		Concrete			Steamed			Reef		tot	tot	tot		combined
		1	2	3	1	2	3	1	2	3	concrete	steamed	reef		totals/size
0-4	0										0	0	0	0	0
5-9	1										0	0	0	0	0
10-14	2		1		1	2					1	3	0	4	4
15-19	3	1	4	4	1	1					9	2	0	11	25
20-24	4	9	33	17	29	6	29				59	64	0	123	198
25-29	5	23	62	44	43	9	56			1	129	108	1	238	433
30-34	6	23	99	49	66	11	110	1		1	171	107	2	360	564
35-39	7	19	76	18	35	1	54	1		3	113	90	4	207	319
40-44	8	14	61	17	29	3	34	1			92	66	1	159	226
45-49	9	9	37	12	11		14	2		1	56	25	3	86	117
50-54	10	13	35	8	8		6	1			56	14	1	71	87
55-59	11	7	30	9	6	3	10				46	19	0	65	75
60-64	12	6	26	7	5	4	6			1	39	15	1	55	68
65-69	13	9	18	1	5	2	6			3	28	13	3	44	59
70-74	14	8	9	4	9		3		1		21	12	1	34	47
75-79	15	8	9	3	3	2	5	1		2	20	10	3	33	53
80-84	16	5	4	1	5	1	3			1	10	9	1	20	26
85-89	17	8	2	1	1	1			2	1	11	2	3	16	22
90-94	18	2	3	1					1		6	0	1	7	10
95-99	19	1									1	0	0	1	2
100-104	20		1								1	0	0	1	1
105-109	21										0	0	0	0	0
110-114	22	1								1	1	0	1	2	2
115-119	23										0	0	0	0	0
120-124	24	1							1	1	1	0	2	3	3
125-129	25							1			0	0	1	1	1
	sub totals	167	510	196	257	46	336	8	5	16				1541	2342
	totals		873			639			29						
	ave		291			213			9.666667						
	tot =>1"	157	472	175	226	37	307	8	5	16					
	tot		804			570			29						
	ave =>1"		268			190			9.666667						
			Mixed			Kent. Lime			Bahamian Lime		tot	tot	tot		
mm	work groups	1	2	3	1	2	3	1	2	3	mixed	kent	baham		
0-4	0										0	0	0	0	
5-9	1										0	0	0	0	
10-14	2										0	0	0	0	
15-19	3			3		3			6	2	3	3	8	14	
20-24	4		4			20	7	9	24	11	4	27	44	75	
25-29	5	1	1	4	4	35	12	43	76	19	6	51	138	195	
30-34	6	9	1	6	6	50	6	35	77	14	16	62	126	204	
35-39	7	5	1	8	3	34	9	9	33	10	14	46	52	112	
40-44	8	4	1	2	6	32	12	3	4	3	7	50	10	67	
45-49	9	6		3	1	8	2	4	2	5	9	11	11	31	
50-54	10			2		7		3		4	2	7	7	16	
55-59	11	2		1				2	3	2	3	0	7	10	
60-64	12	3		2		3		3		2	5	3	5	13	
65-69	13	3		4	1	2		3	2		7	3	5	15	
70-74	14	2		4		1		3	1	2	6	1	6	13	
75-79	15	4	1	7		1		2		5	12	1	7	20	
80-84	16	1		3		1				1	4	1	1	6	
85-89	17	2		2	1			1			4	1	1	6	
90-94	18			1		1		1			1	1	1	3	
95-99	19									1	0	0	1	1	
100-104	20										0	0	0	0	
105-109	21										0	0	0	0	
110-114	22										0	0	0	0	
115-119	23										0	0	0	0	
120-124	24										0	0	0	0	
125-129	25										0	0	0	0	
	sub totals	42	9	52	22	198	48	121	228	81				801	
	totals		103			268			430						
	ave		34.3333333			89.33333			143.3333						
	tot =>1"	42	5	49	22	175	41	112	198	68					
	tot		96			236			378						
	ave =>1"		32			79.33333			126						
	grand total	2342	in 18 square meters												
	ave	130.1111111													

Hackberry Bay Square Meter SamplesJuly 1, 1998

July 1, 1998	OYSTERS						
Hackberry Bay square meters			Mid Hackberry Bay			Lower Hackberry Bay	
mm	work groups	1	2	3	1	2	3
0-4	0						
5-9	1						
10-14	2		2				
15-19	3	1	1				
20-24	4		4	6			
25-29	5	15	6	3	5	1	
30-34	6	11	11	7	10	2	
35-39	7	7	6	5	12	4	1
40-44	8	6	9	6	7	1	1
45-49	9	4	1	4	8	4	4
50-54	10	1	2	2	2	1	
55-59	11		1		5	3	3
60-64	12		2		2	2	
65-69	13	1		1	3		1
70-74	14			1	4	1	
75-79	15	1	1		3	4	
80-84	16				4	3	2
85-89	17		1		4		1
90-94	18					1	
95-99	19						1
100-104	20						
105-109	21						1
110-114	22						
	sub totals	47	47	35	69	27	15
	totals		129			111	
	ave		43			37	
	tot =>1"	46	40	29	69	27	15
	tot		115			111	
	ave =>1"		38.3333333			37	

Hackberry Bay Square Meter SamplesJuly 1, 1998

Cultch site	OYSTERS	Totals			
	spat	seed	sack	total	
Concrete	69	753	51	873	
Steamed	69	549	21	639	
Reef	0	17	12	29	
Mixed	7	75	21	103	
Kent. Lime	30	234	4	268	
Bahamian L	52	367	11	430	
sub tot	227	1995	120		2342
				2342	
Other Sites					
Mid	14	112	3	129	
Lower	0	87	24	111	
sub tot	14	199	27		240
				240	
grand tot	241	2194	147	2582	

Hackberry Bay Square Meter SamplesJuly 1, 1998

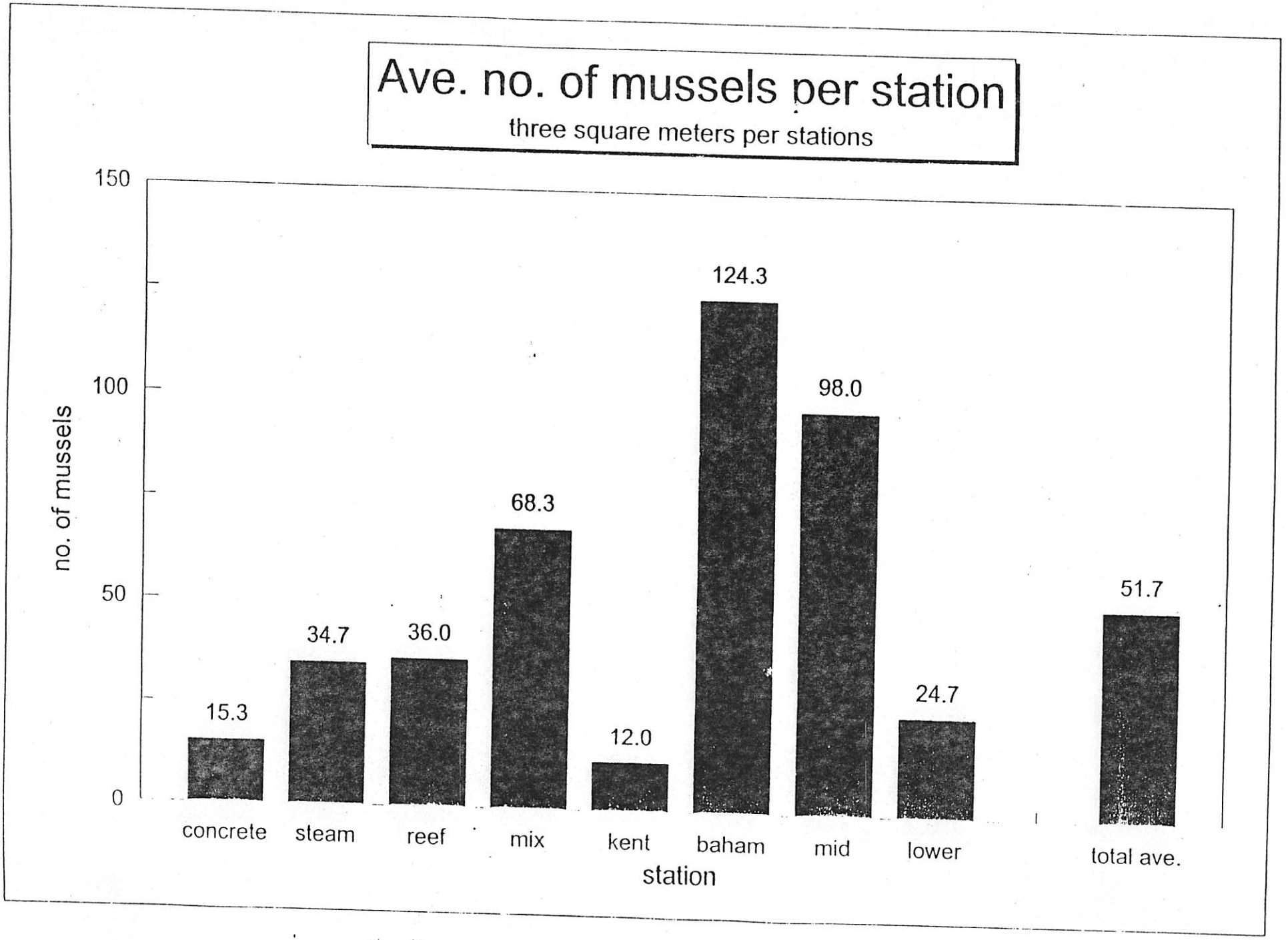
Mussels			Mid Hackberry Bay			Lower Hackberry Bay	
mm	work groups	1	2	3	1	2	3
0-4	0						
5-9	1	55	136	57	10	12	5
10-14	2	9	24	3	12	4	5
15-19	3	6	1	1	8	2	2
20-24	4	2			5	1	2
25-29	5					1	
30-34	6				1		1
35-39	7					2	
40-44	8					1	
45-49	9						
50-54	10						
	sub totals	72	161	61	36	23	15
	totals		294			74	
	ave		98			24.66667	
		tot. in low &	368				
		ave	184				

Hackberry Bay Square Meter SamplesJuly 1, 1998

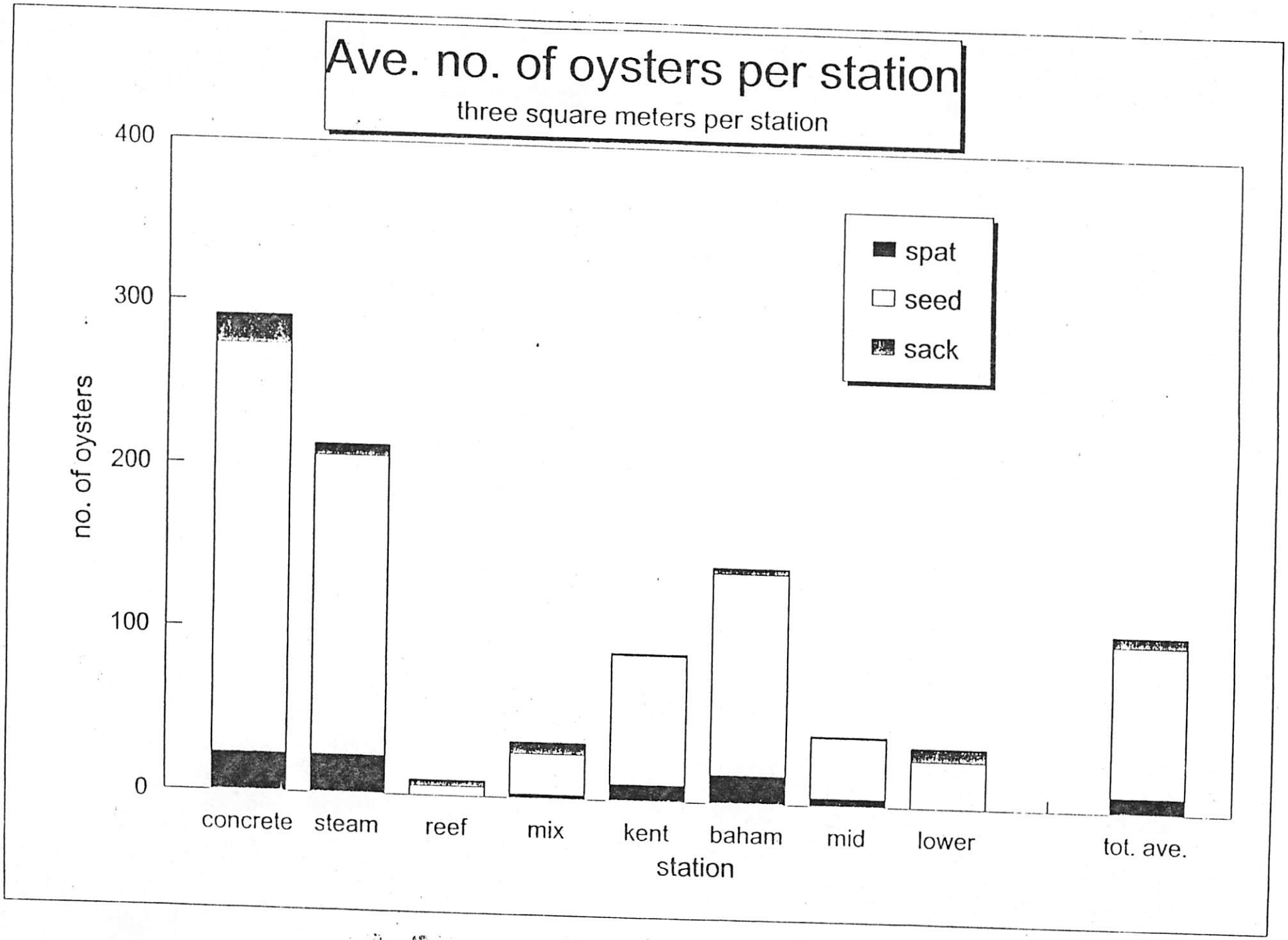
Hackberry	Meter Squared		MUSSELS													
July 1,1998			1994 Cultch	Site												
CSA 3			Concrete			Steamed			Reef							1998
mm	work groups	1	2	3	1	2	3	1	2	3	tot concrete	tot steamed	tot reef			combined totals/size
0-4	0										0	0	0	0		70
5-9	1		4		18	15	11	21		6	4	44	27	75		338
10-14	2	3	6	2	10	5	8	17	2	11	11	23	30	64		276
15-19	3	1	7		10	5	1	23	3	4	8	16	30	54		102
20-24	4	1	2		7	1	3	3			3	11	3	17		37
25-29	5	4	7		1	1	4	1		5	11	6	6	23		24
30-34	6	1	5	1	3		1	7		5	7	4	12	23		23
35-39	7	1	1								2	0	0	2		2
40-44	8										0	0	0	0		0
45-49	9										0	0	0	0		0
50-54	10										0	0	0	0		0
	sub totals	11	32	3	49	27	28	72	5	31				258		872
	totals		46			104			108							
	ave		15.33333			34.66667			36							

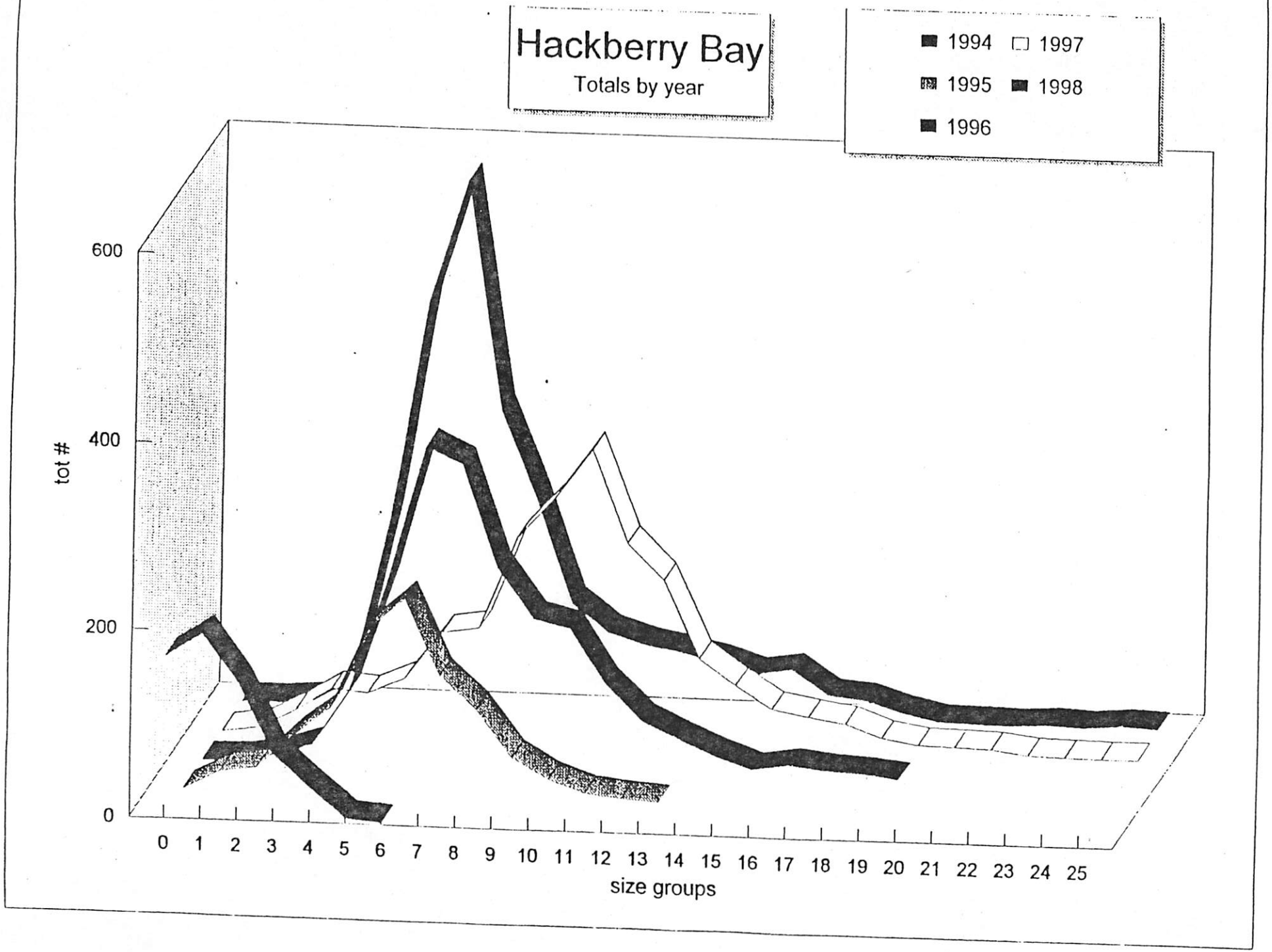
mm	work groups	1	Mixed 2	3	1	Kent. Lime 2	3	1	Bahamian Lime 2	3	tot mixed	tot kent	tot baham	
0-4	0													
5-9	1	50	3	33	3	20		63	31	70	0	0	70	70
10-14	2	46	10	44	2	9		23	18	60	86	23	154	263
15-19	3	7	2	4	1	1		4	2	27	100	11	101	212
20-24	4	4	1					4	2	9	13	2	33	48
25-29	5	1									5	0	15	20
30-34	6										1	0	0	1
35-39	7										0	0	0	0
40-44	8										0	0	0	0
45-49	9										0	0	0	0
50-54	10										0	0	0	0
	sub totals	108	16	81	6	30	0	94	53	226				614
	totals		205			36			373					
	ave		68.33333			12			124.3333					
	grand total	872	in 18 square meters											
	ave	48.44444												

Hackberry Bay Square Meter SamplesJuly 1, 1998

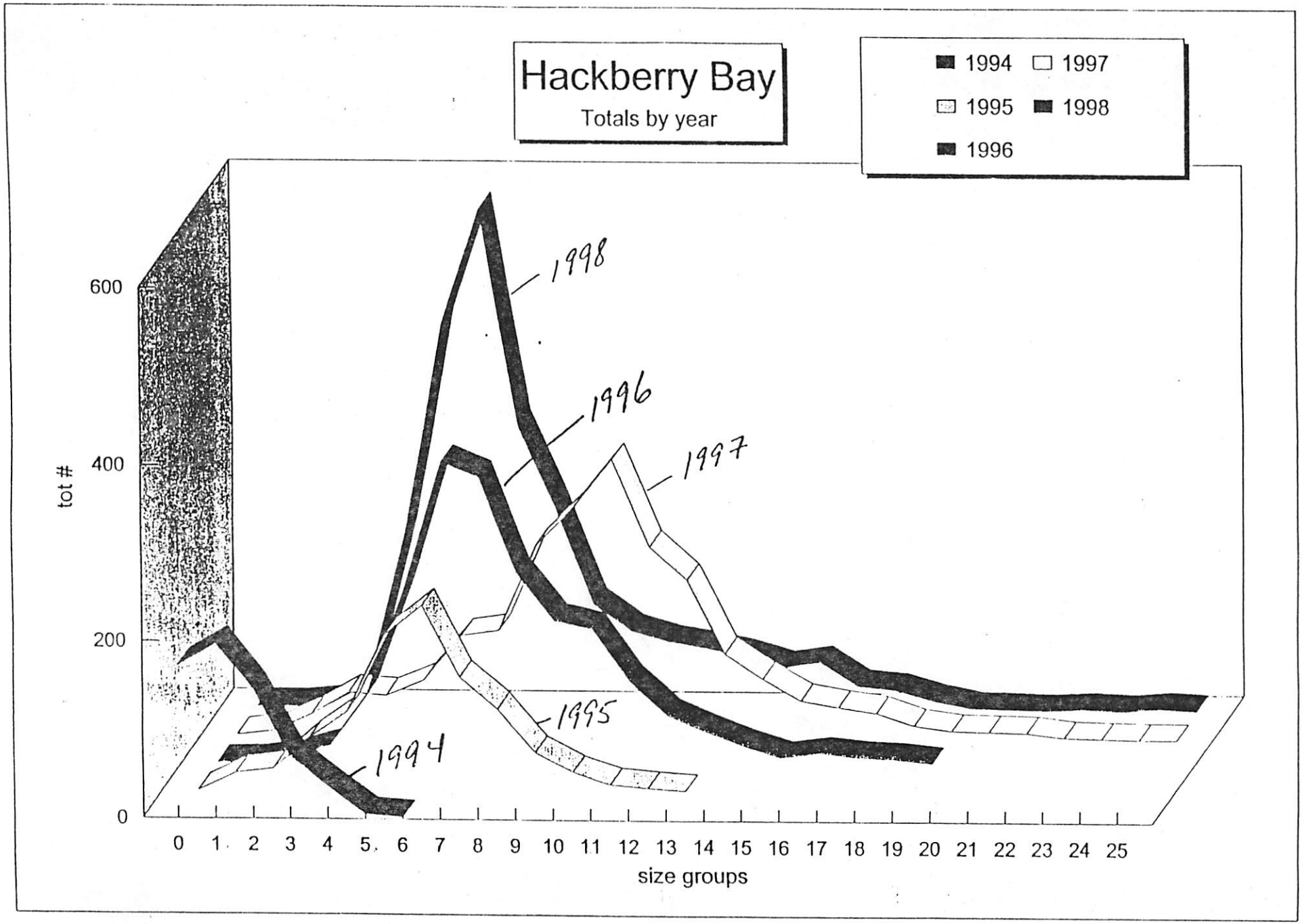


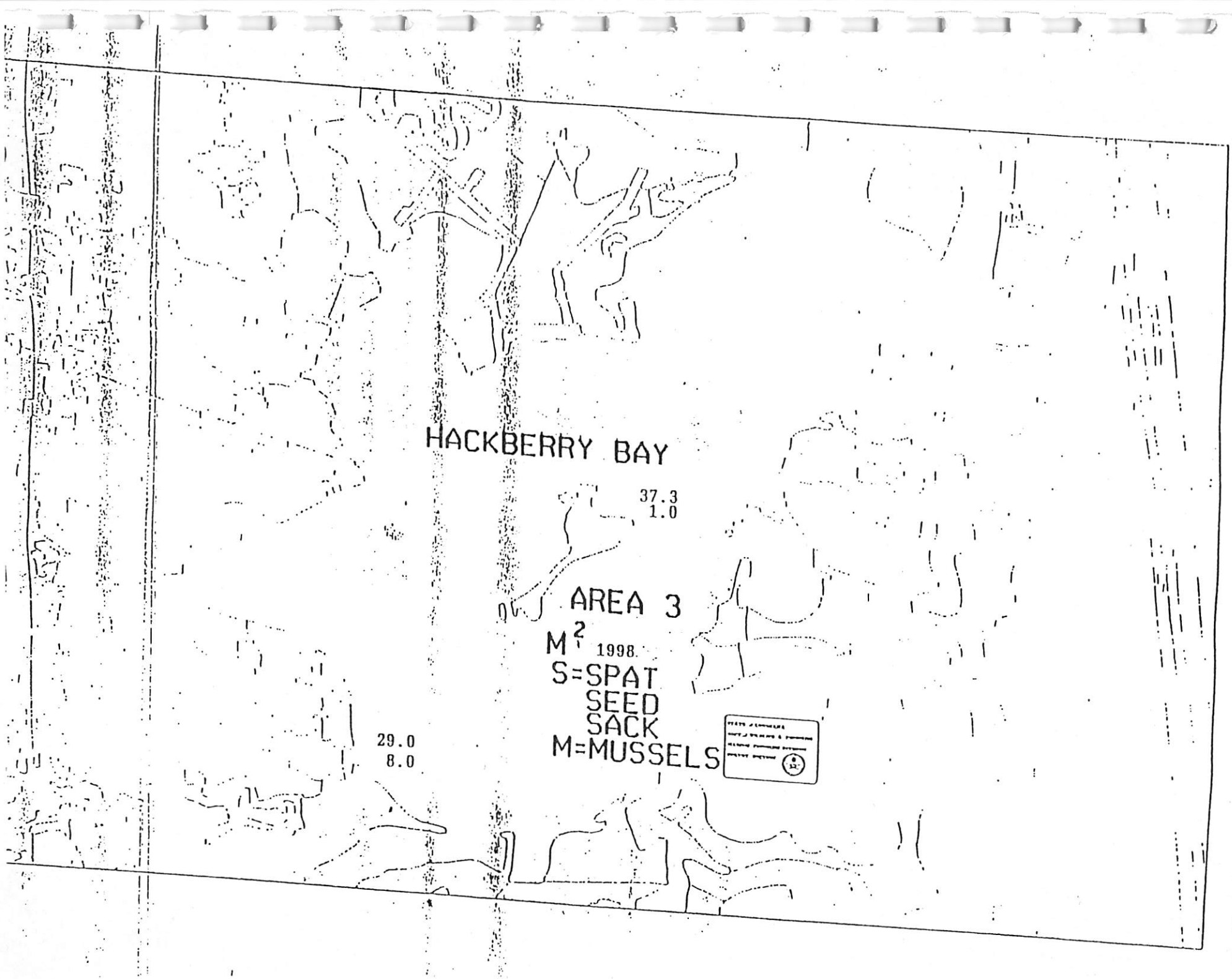
Hackberry Bay Square Meter SamplesJuly 1, 1998




Hackberry Bay
Totals by year
1994
1997
1995
1998
1996
tot #
600
400
200
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
size groups

Hackberry Bay Square Meter SamplesJuly 1, 1998




HACKBERRY BAY
37.3
1.0
AREA 3
M2 1998
S=SPAT
SEED
SACK
M=MUSSELS
29.0
8.0

COASTAL STUDY AREA V
MARTY BOURGEOIS
PAUL MEIER

State of Louisiana

James H. Jenkins, Jr.
Secretary

Department of Wildlife & Fisheries
Post Office Box 189
Bourg, Louisiana 70343
(504)594-4139

M.J. "Mike" Foster, Jr.
Governor

July 21, 1998

Memorandum

TO: Ron Dugas, Programs Manger

FROM: Martin Bourgeois and Paul Meier, CSA-V

SUBJECT: CSA-V Oyster Meter Square Samples/1998 Stock Assessment

With assistance from Coastal Study Area III personnel, all oyster meter square field sampling was completed on July 15, 1998. A total of 14 stations, 9 in Sister Lake (including the 1994 and 1995 shell plants) and 5 in Bay Junop were sampled with one replicate made at each station.

The stock assessment conducted in Sister Lake indicates an overall decline in stocks from 1997 levels (see tables and figures), as expected following the level of fishing effort generated over three successive fishing seasons. With the exception of the Camp 1995 shell plant and to a lesser extent the South 1994 shell plant, all shell plants as well as reefs in Sister Lake experienced significant stock declines. Stock assessments conducted in 1998 for Sister Lake shell plants (combined acreage) indicate 193,992 barrels of seed and 269, 946 barrels of sack oysters available for harvest, declines from 1997 levels of 52% and 37%, respectively. Likewise, stock level for reef acreage in Sister Lake indicates 104,983 barrels of seed and 57,179 barrels of sack oysters available for harvest, declines of 23% and 57%, respectively, from 1997 levels. The ratio of sack to seed oyster availability, although largely erratic between years, corresponds well to 1997 rates.

While stock levels in Sister Lake have declined from 1997 levels, stock size has increased in Bay Junop over the same period. The 1998 stock assessment conducted in Bay Junop indicates 52,340 barrels of seed and 90,787 barrels of sack oysters available for harvest, respective increases of 67% and 68% from 1997 levels. The relative ratio between sack and seed oyster availability in Bay Junop corresponds well to trends of previous years.

A minimum of 20 hooked mussels were measured (5 mm working group intervals) and total

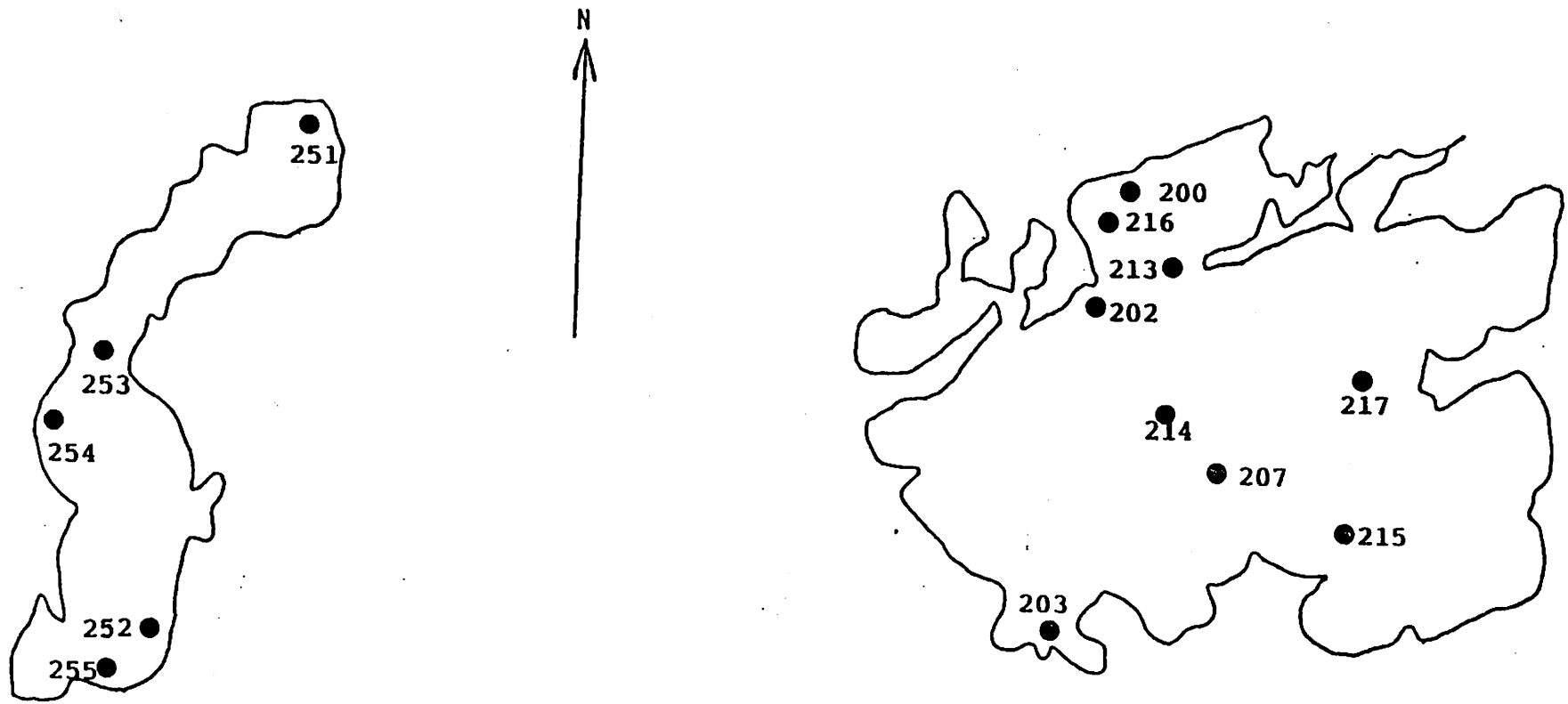
number recorded from all samples and replicates. Interestingly, as was noted in CSA-II's 1997 stock assessment, areas of highest mussel infestation levels directly corresponded to areas of greatest oyster density (Sister Lake/Camp1995 shell plant and Bay Junop @ Hell Hole Bayou). Additionally, our observations indicate that highest mussel infestations were associated with clustered oysters.

Both salinity and water temperature remain within seasonal norms in Sister Lake and Bay Junop.

Approximately 30 oysters from both North and South Sister Lake and Bay Junop were forwarded to Dr. Tom Soniat at NSU for "dermo" level analysis.

Tables and figures depicting the 1998 Sister Lake and Bay Junop stock assessments are presented as follows.

COASTAL STUDY AREA 5 METER SQUARE SAMPLE STATIONS



BAY JUNOP

Station Location

251 = Buckskin Bayou
252 = Rat Bayou
253 = Mid Bay Junop
254 = Hell Hole Bayou
255 = Bayou de West

SISTER LAKE

Station Location

200 = Grand Pass
202 = Walker's Point
203 = Old Camp
207 = Mid Sister Lake
213 = North 1994 Shell Plant
214 = Mid 1994 Shell Plant
215 = South 1994 Shell Plant

1998 SISTER LAKE OYSTER AVAILABILITY

METER² STATION	REEF ACREAGE	# METER²	# SEED OYSTERS	# SACK OYSTERS	BARRELS SEED	BARRELS SACK
200	221.58	896,734.26	18.0	2.0	22,418.4	4,981.9
202	81.93	331,570.71	61.5	16.5	28,321.7	15,197.0
203	151.31	612,352.00	11.0	1.5	9,355.4	2,551.5
207	185.72	751,608.84	43.0	16.5	44,887.8	34,448.7
				TOTALS	104.983.3	57,179.1

1998 OYSTER AVAILABILITY
1994 COASTAL STUDY AREA V SHELL PLANTS

SEED OYSTERS

SHELLPLANT	ACRES	# METER^2	# OYSTERS	BARRELS SEED
North	96	388,512	24.0	12,950.4
Mid	129	522,063	4.0	2,900.4
South	81	327,807	12.0	5,463.5
			TOTAL	21,314.3

SACK OYSTERS

SHELLPLANT	ACRES	# METER^2	# OYSTERS	BARRELS SACK
North	96	388,512	26.5	28,598.8
Mid	129	522,063	8.0	11,601.4
South	81	327,807	11.0	10,016.3
			TOTAL	50,216.5

1998 OYSTER AVAILABILITY
1995 COASTAL STUDY AREA V SHELL PLANTS

SEED OYSTERS

SHELLPLANT	ACRES	# METER^2	# OYSTERS	BARRELS SEED
North	115	465,405	31.0	20,038.3
Camp	438	1,772,586	62.0	152,639.4
			TOTAL	172,677.7

SACK OYSTERS

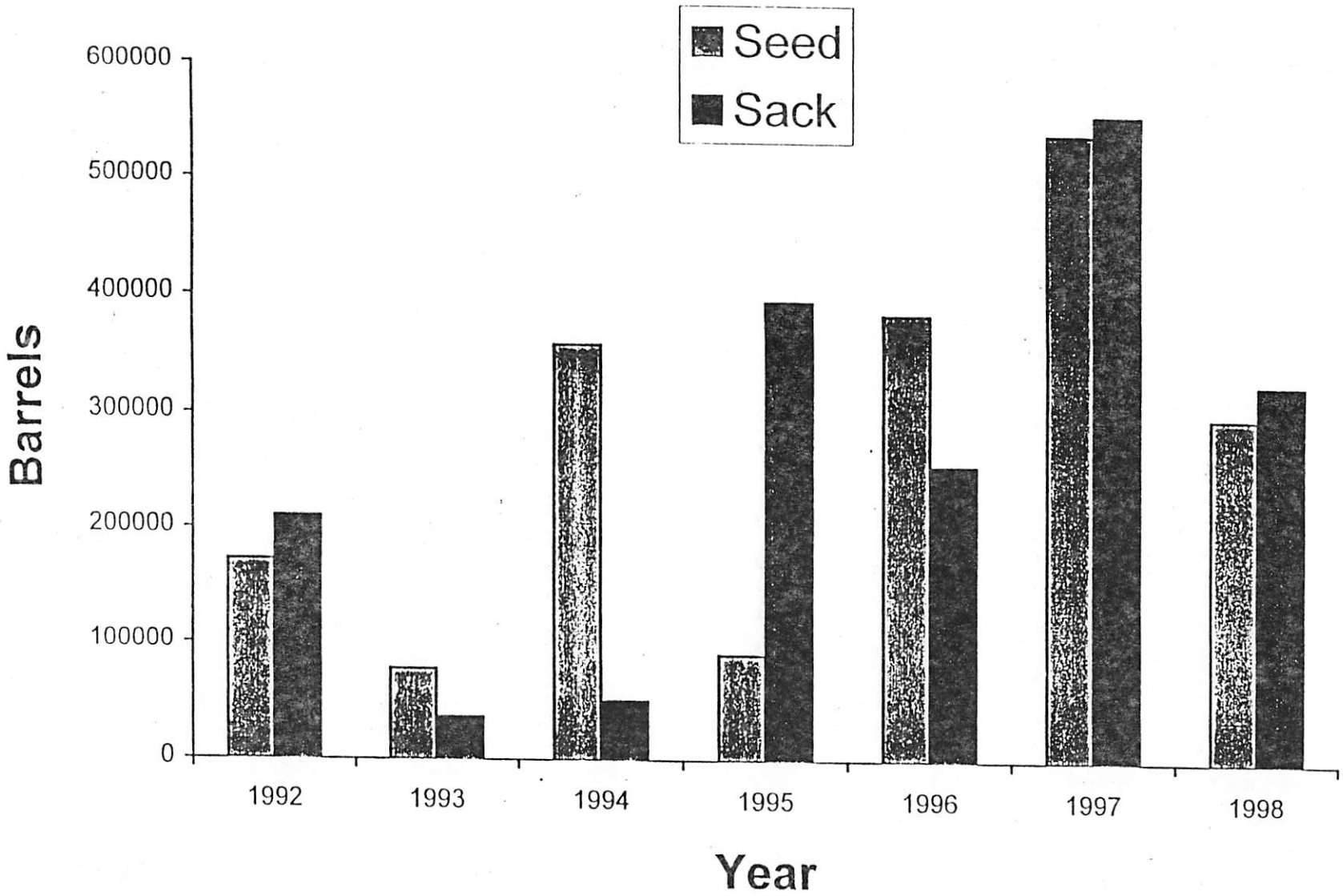
SHELLPLANT	ACRES	# METER^2	# OYSTERS	BARRELS SACK
North	115	465,405	10.0	12,927.9
Camp	438	1,772,586	42.0	206,801.7
			TOTAL	219,729.6

1998 BAY JUNOP OYSTER AVAILABILITY

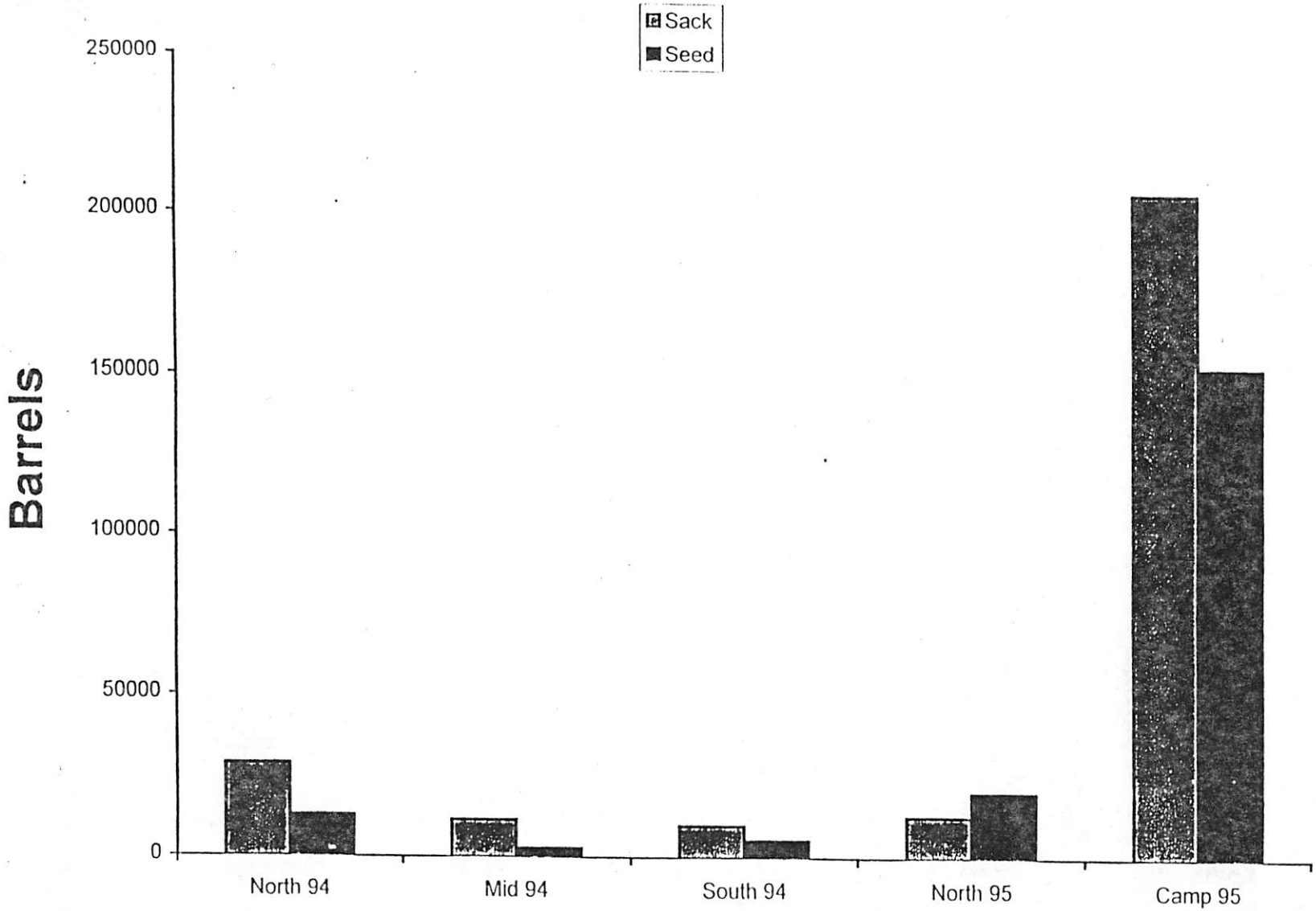
METER² STATION	REEF ACREAGE	# METER²	# SEED OYSTERS	# SACK OYSTERS	BARRELS SEED	BARRELS SACK
251	17.2	69,608.40	3.0	8.5	290.0	1,643.5
252*	67.36	272,605.92	45.8	17.5	17,340.8	13,251.7
253	73.26	296,483.22	33.5	15.0	13,794.7	12,353.5
254	94.20	381,227.40	39.5	60.0	20,914.6	63,537.9
255*						
				TOTALS	52,340.1	90,786.6

* Stations 252 and 255 are combined.

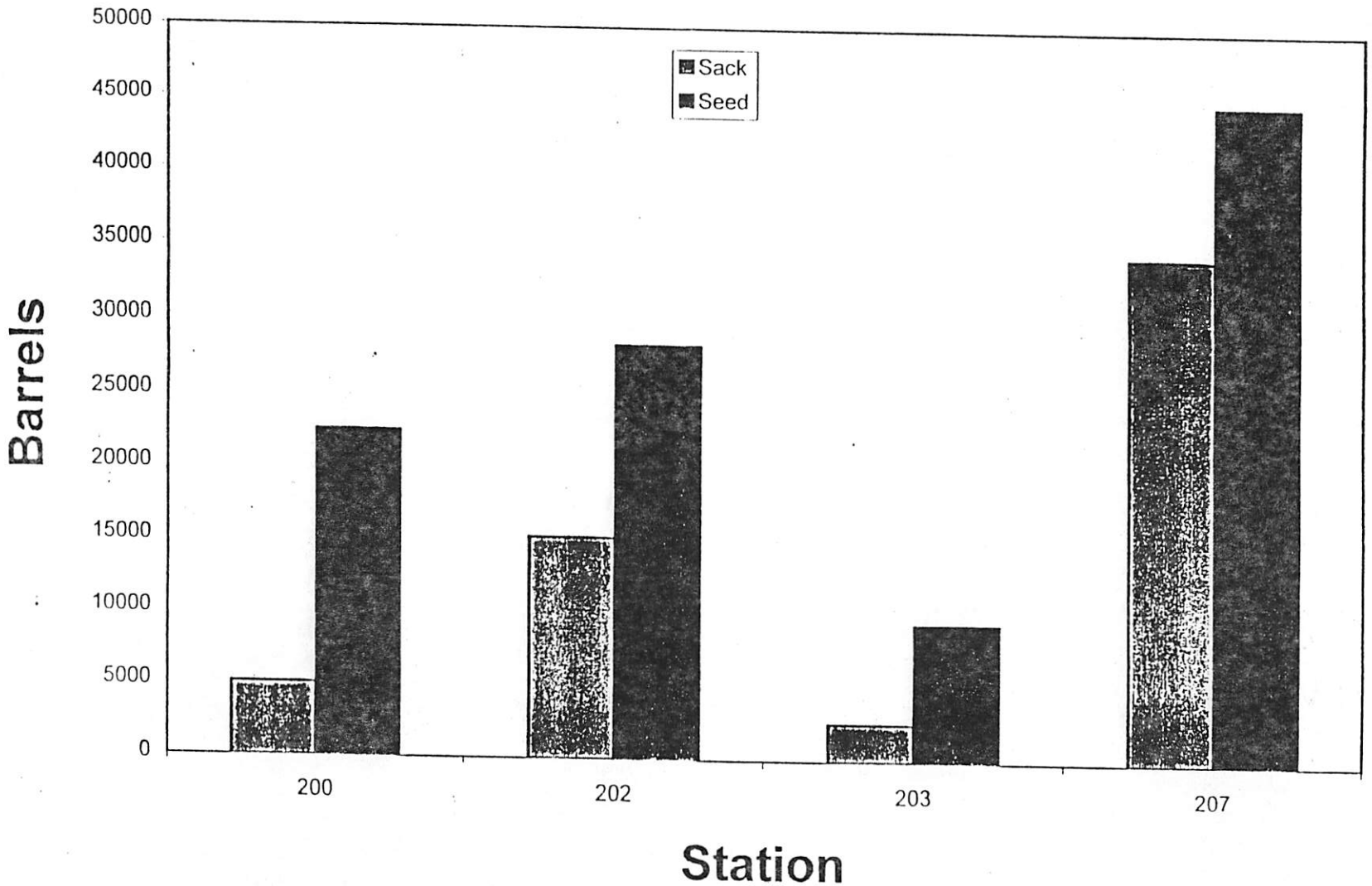
OYSTER AVAILABILITY
SISTER LAKE



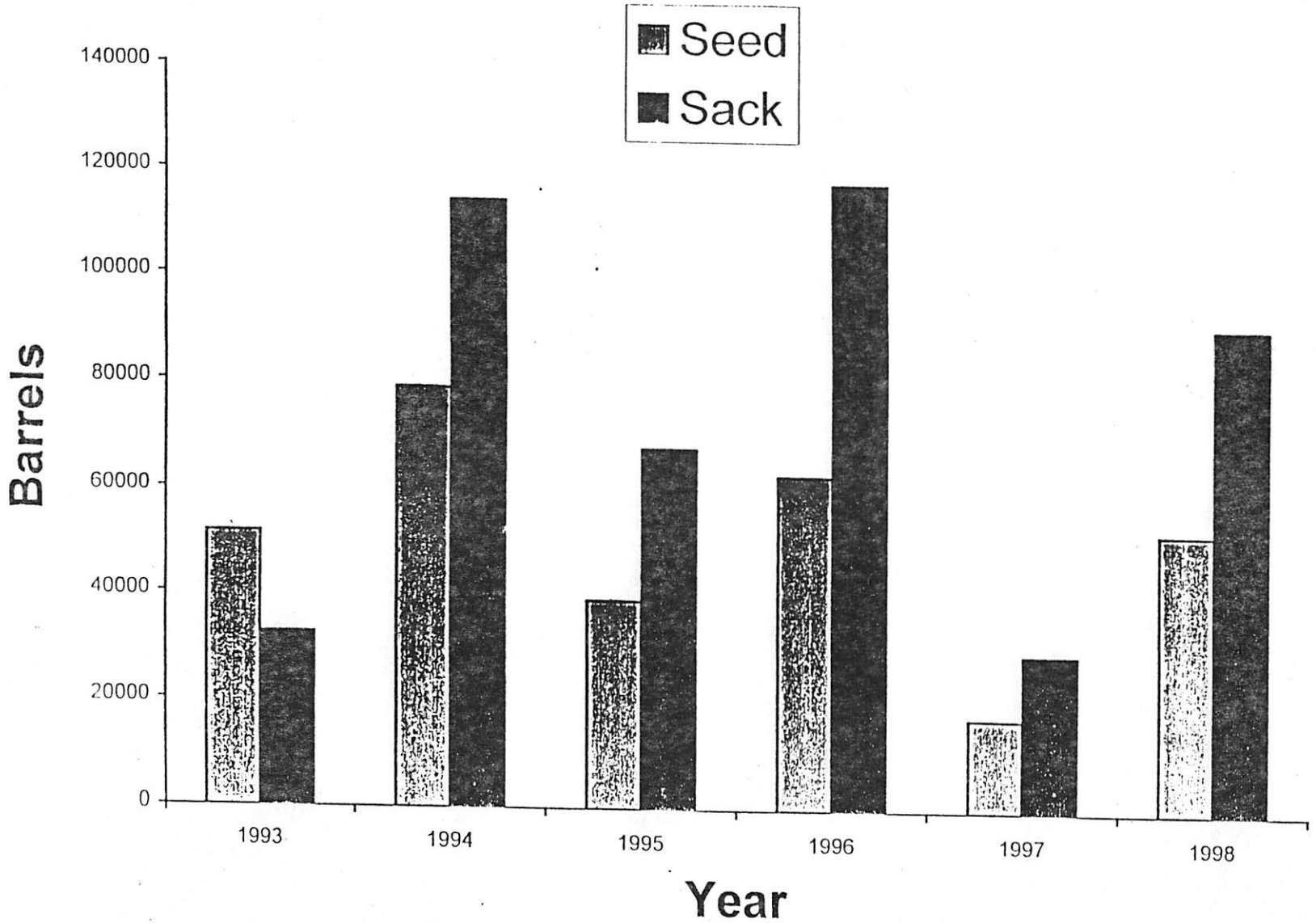
OYSTER AVAILABILITY
SISTER LAKE SHELL PLANTS



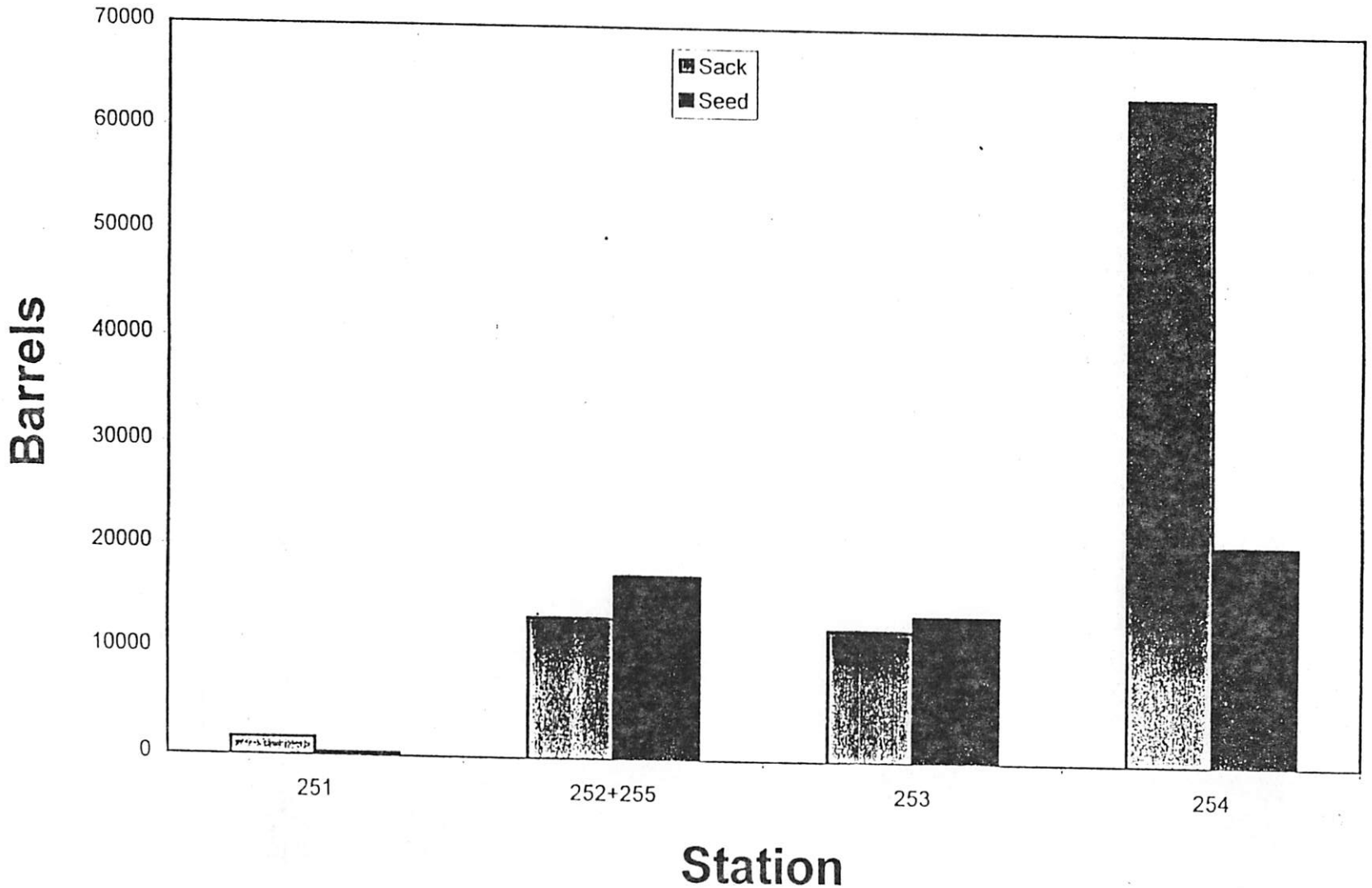
OYSTER AVAILABILITY
SISTER LAKE REEFS



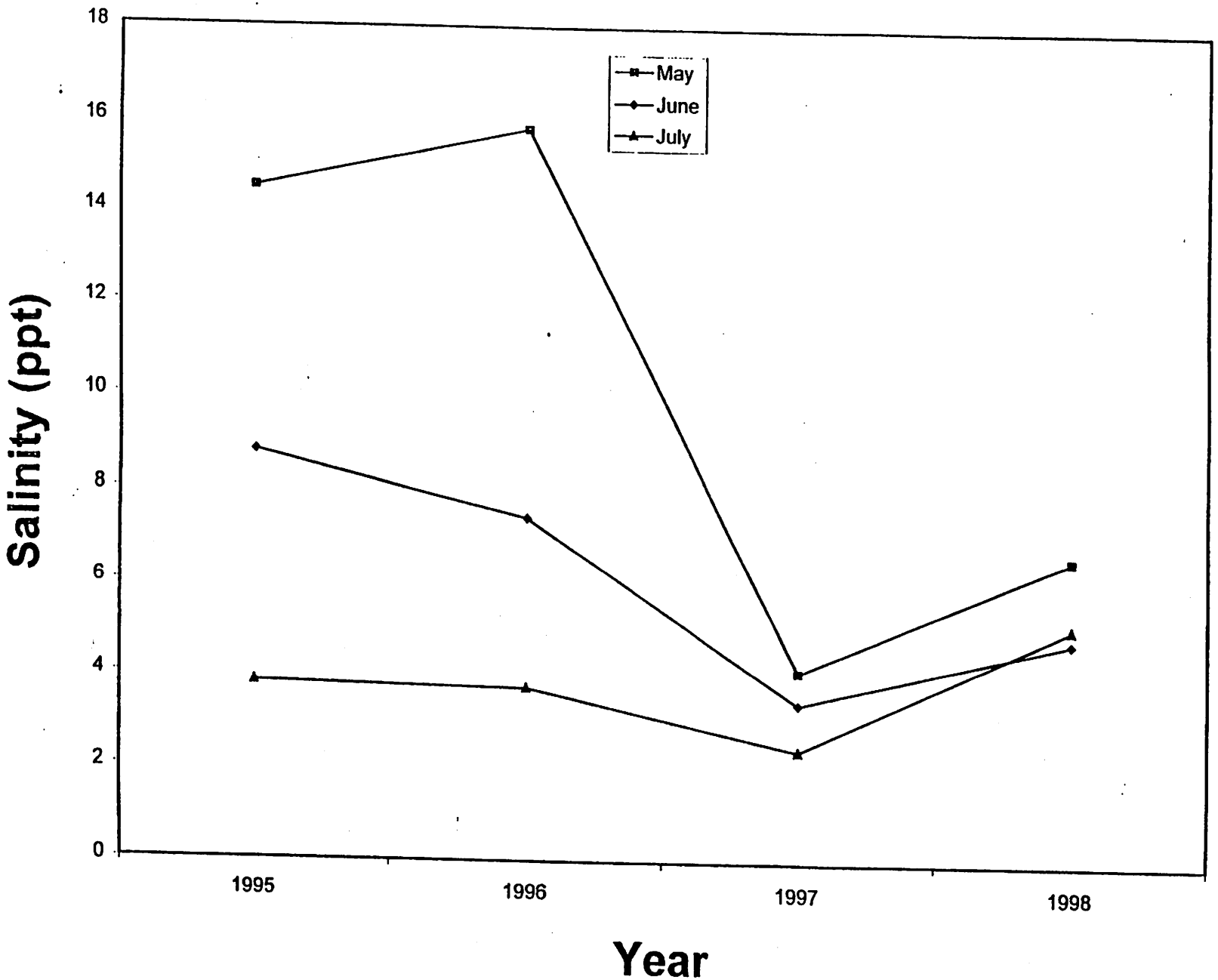
OYSTER AVAILABILITY
BAY JUNOP



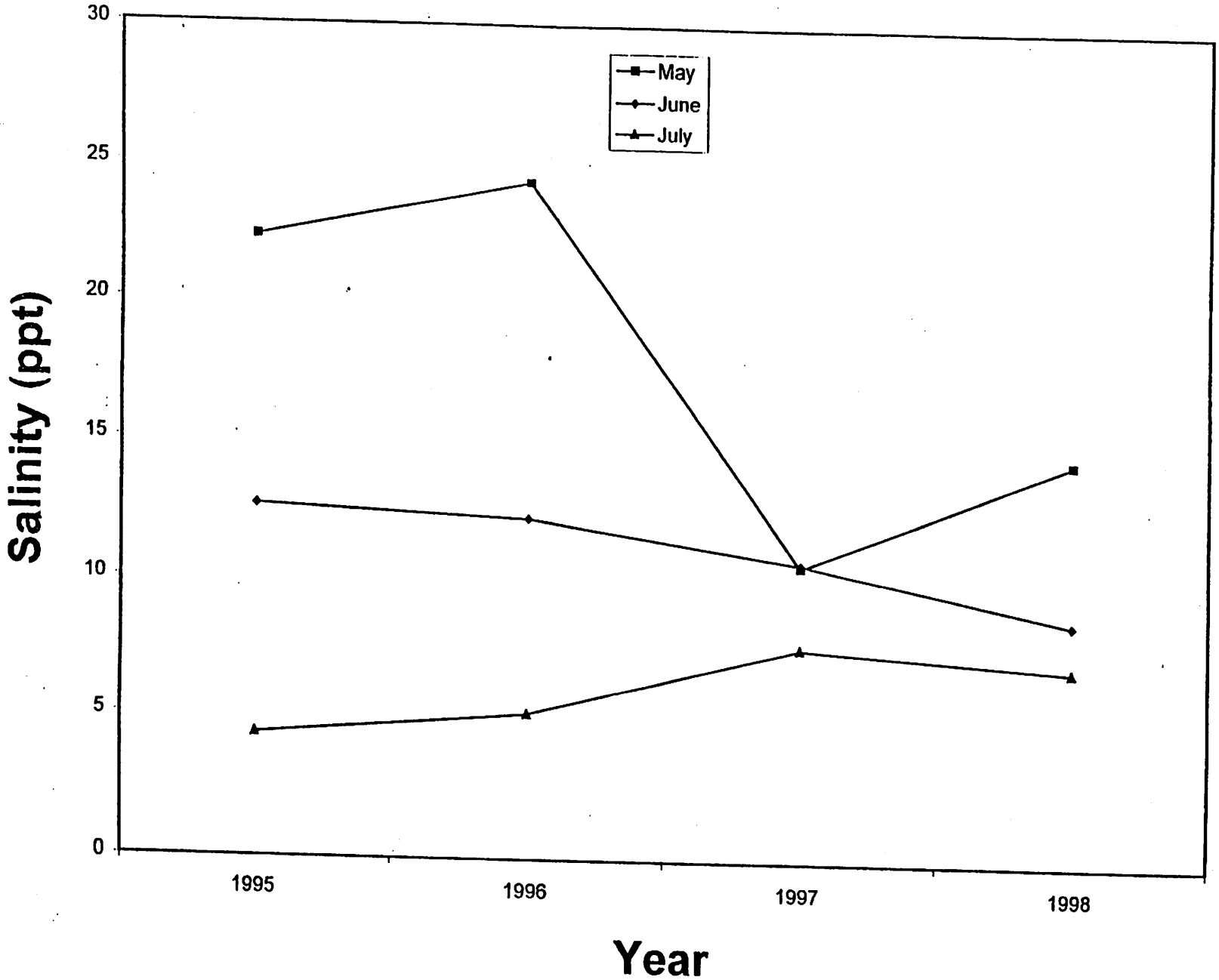
OYSTER AVAILABILITY
BAY JUNOP REEFS



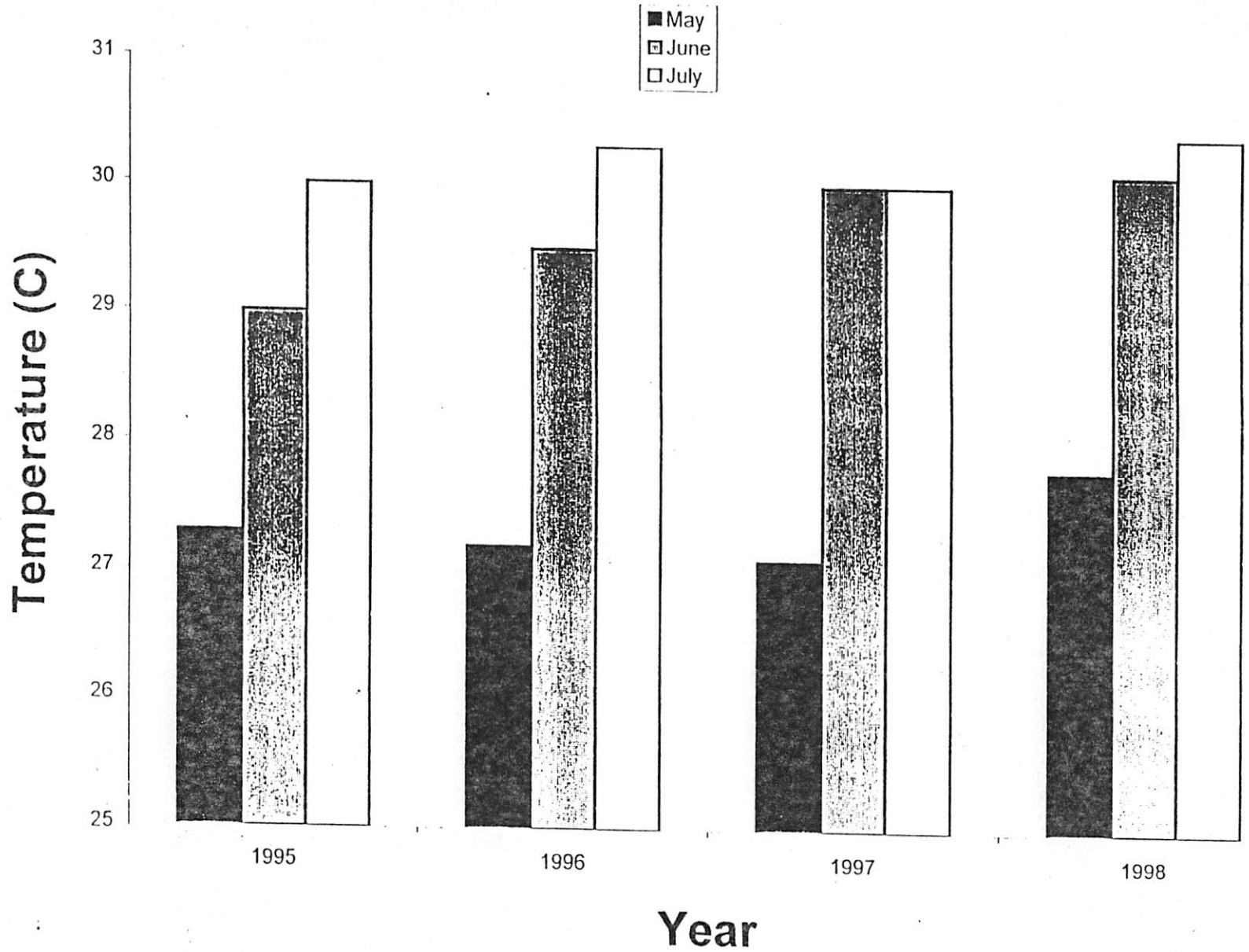
NORTH SISTER LAKE SALINITY



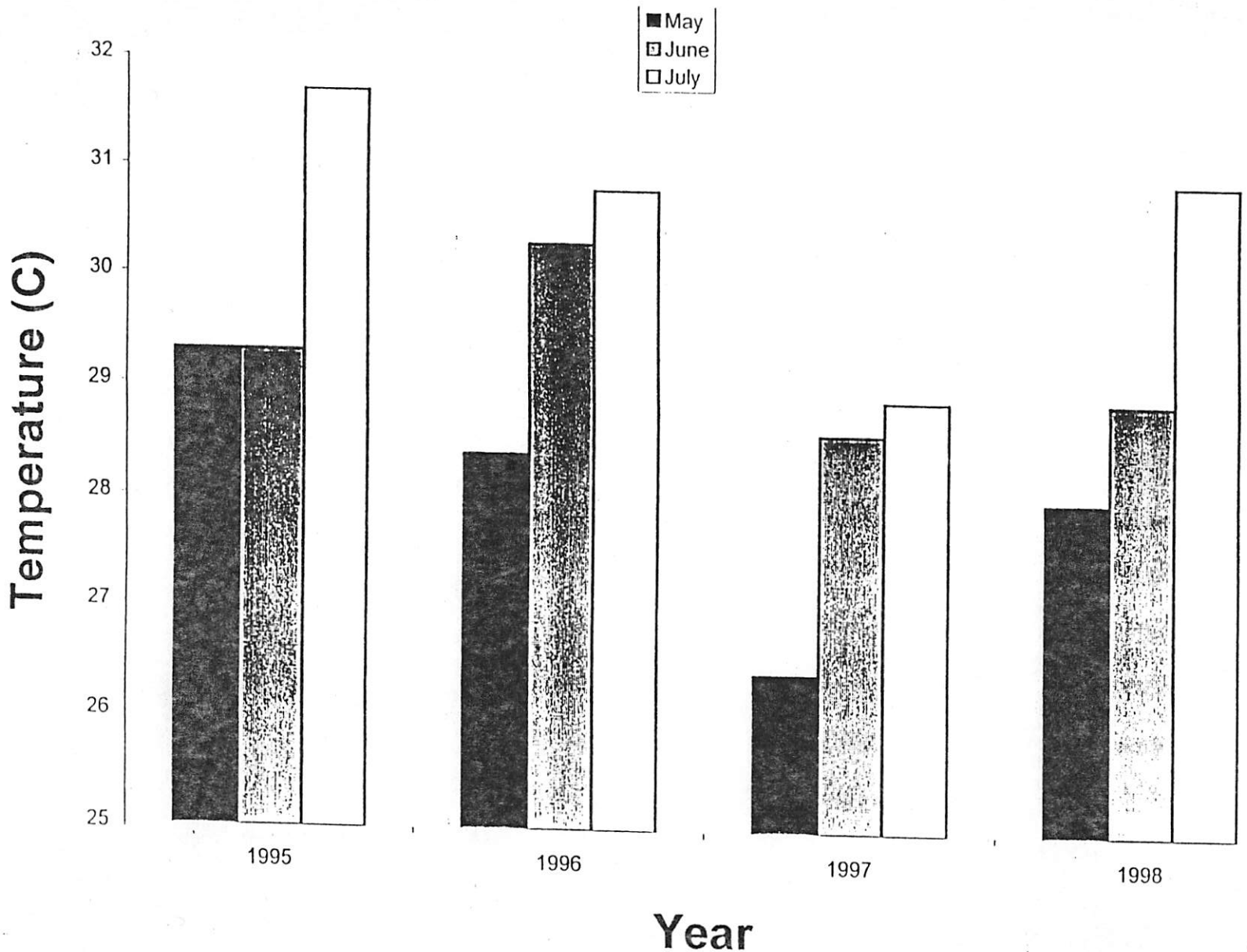
BAY JUNOP SALINITY



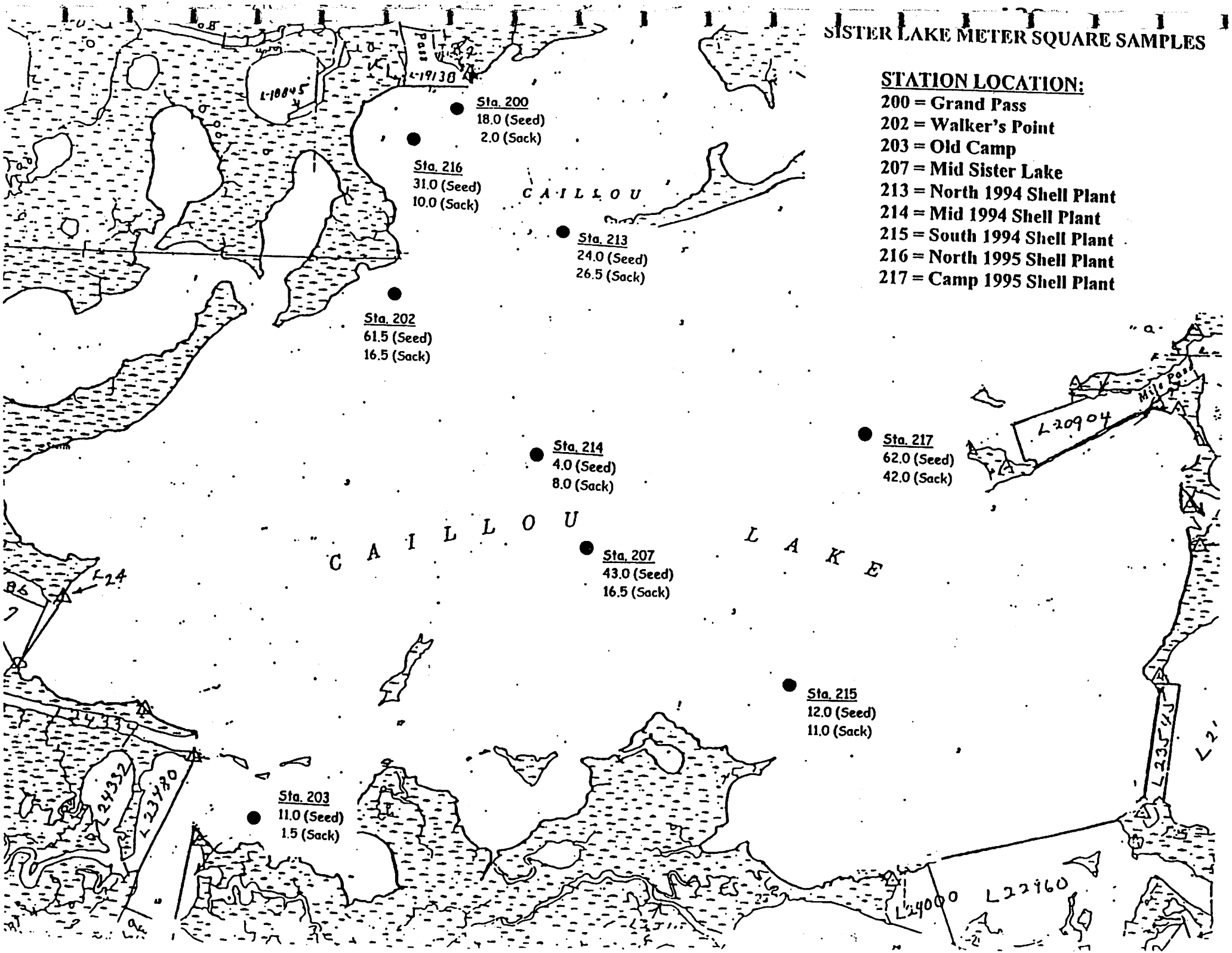
SISTER LAKE WATER TEMPERATURE



BAY JUNOP WATER TEMPERATURE



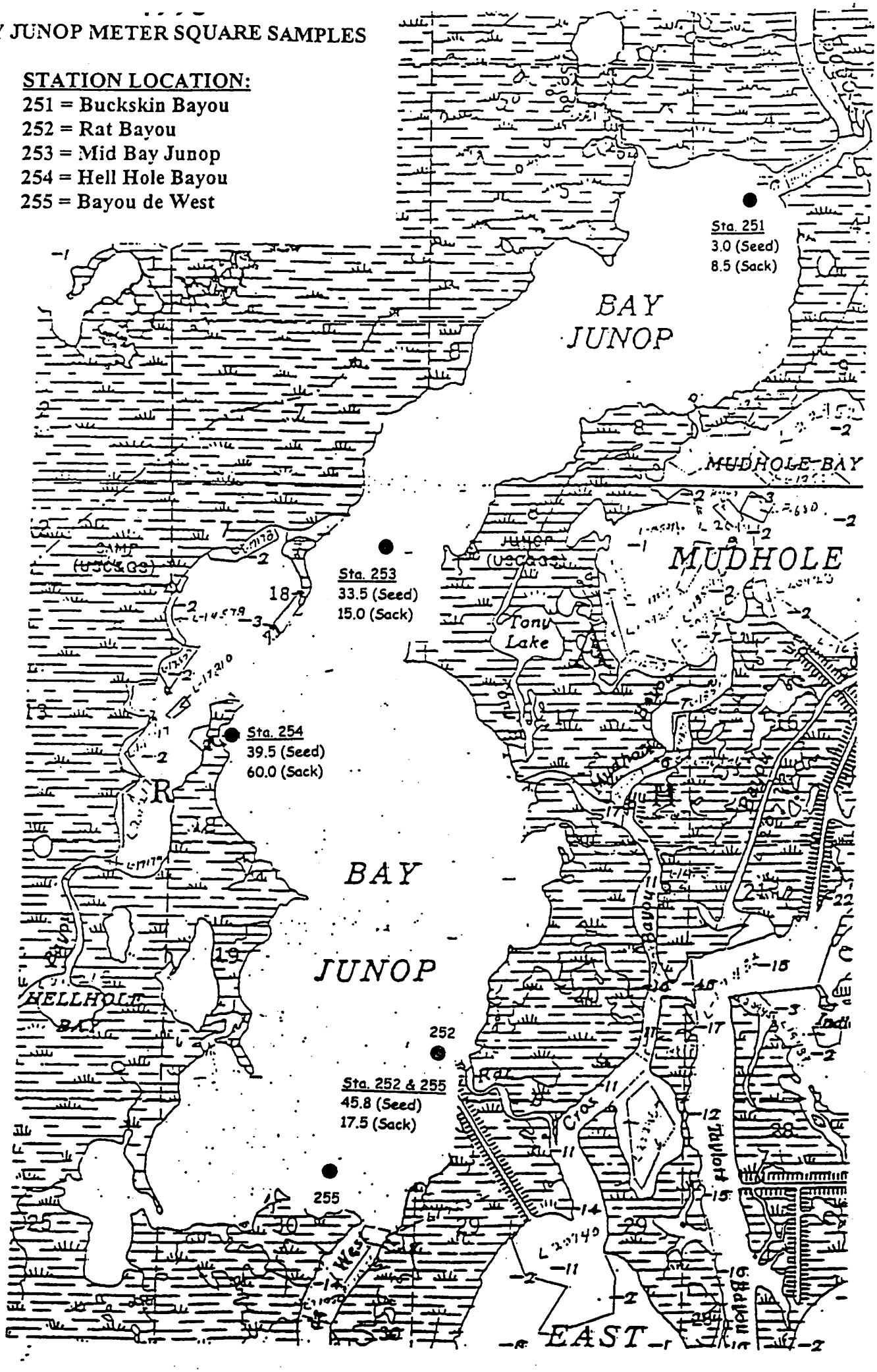
SISTER LAKE METER SQUARE SAMPLES



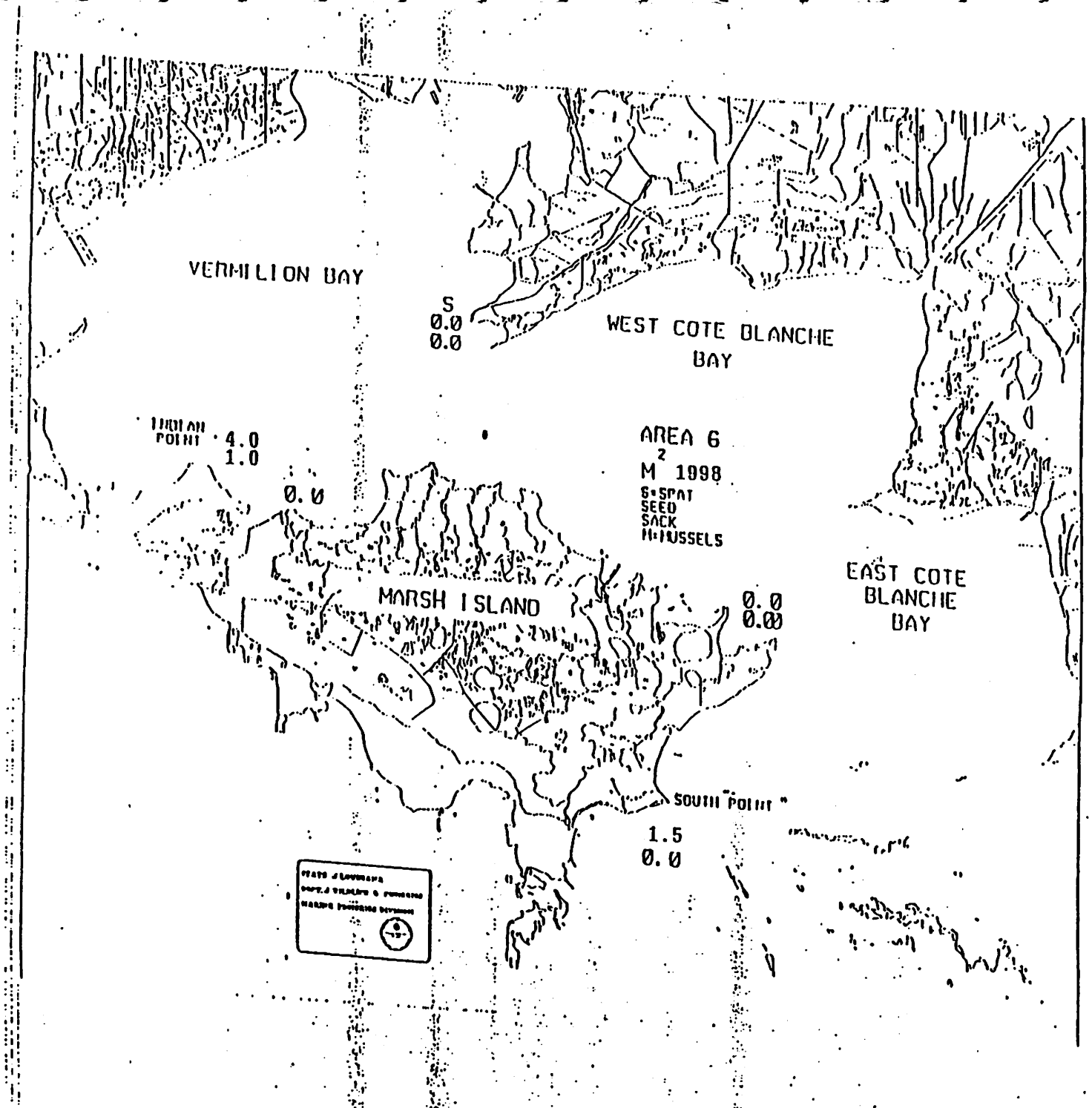
BAY JUNOP METER SQUARE SAMPLES

STATION LOCATION:

251 = Buckskin Bayou
252 = Rat Bayou
253 = Mid Bay Junop
254 = Hell Hole Bayou
255 = Bayou de West



COASTAL STUDY AREA VI
PETE JUNEAU


VERMILION BAY
S
0.0
0.0
WEST COTE BLANCHE
BAY
INDIAN
POINT
4.0
1.0
0.0
AREA 6
M2 1998
S=SPAT
SEED
SACK
M=MUSSELS
MARSH ISLAND
0.0
0.00
EAST COTE
BLANCHE
BAY
SOUTH POINT
1.5
0.0

COASTAL STUDY AREA VII
DUDLEY CARVER

OYSTER PRODUCTION IN CALCASIEU LAKE
AUGUST 1998

OYSTER NUMBERS

WESTSIDE

SIZE	STATION			AVE.
	4	5	6	
> 3"	24	17	42	13.8
1-3"	30	35	66	21.8

EASTSIDE

SIZE	STATION			AVE.
	1	2	3	
> 3"	71	37	24	22.0
1-3"	69	43	43	25.8

OYSTER PRODUCTION AREA

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

PRODUCTION OF > 3" OYSTERS

	WESTSIDE	EASTSIDE
OYSTERS:	40,600,658.046	85,826,082.540
SACKS:	225,559.2	476,811.6
TOTAL SACKS OF > 3" OYSTERS:		702,370.8

PRODUCTION OF 1-3" OYSTERS

	WESTSIDE	EASTSIDE
OYSTERS:	64,137,271.406	100,650,587.706
SACKS:	178,159.1	279,585.0
TOTAL SACKS OF 1-3" OYSTERS:		457,744.1

TOTAL PRODUCTION

TOTAL OVERALL POTENTIAL OF OYSTERS (SACKS):	1,160,114.9

1998/99 OYSTER PRODUCTION

PUBLIC OYSTER GROUNDS

Dugas, Ronald

From: Burdon, John
Sent: Thursday, April 08, 1999 9:19 AM
To: Dugas, Ronald
Subject: RE: 98/99 OYSTER PRODUCTION REPORT / PUBLIC GROUNDS

Oyster Production 1998-99 season .....CSA-I (Approximated)

Fall 1998

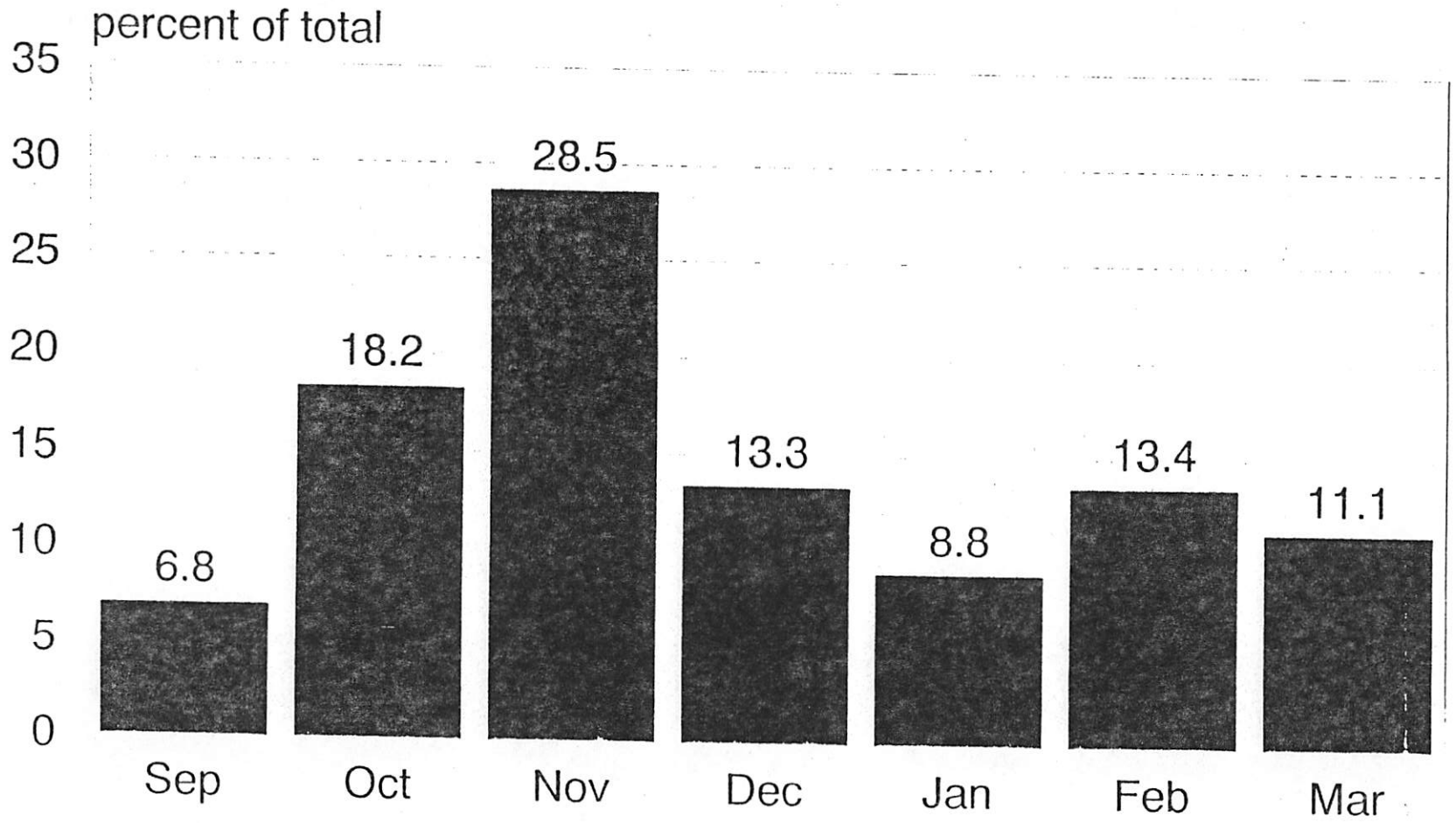
	Sacks (Market)	Barrels (Seed)
Sept.	23,520	2400
Oct.	14,000	1700
Nov.	4,200	900
Dec.	7,800	Unknown
1999		
Jan.	32,200	
Feb.	18,000	900
March	29,920	1,800
Totals	129,920	7,700

-—Original Message—
From: Dugas, Ronald
Sent: Wednesday, April 07, 1999 7:28 AM
To: Burdon, John; Luquet, Clarence; Pausina, Randy; Juneau, Pete
Cc: Boudreaux, Claude; Bourgeois, Martin; Carver, Dudley; Harbison, Mike
Subject: 98/99 OYSTER PRODUCTION REPORT / PUBLIC GROUNDS

The 98/99 Oyster Season is over in some of the areas, and it is time to summerize what happen and the develope the monthly production figures for the season. thanks!!

SEED PRODUCTION

Breton Sound Basin Public Grounds

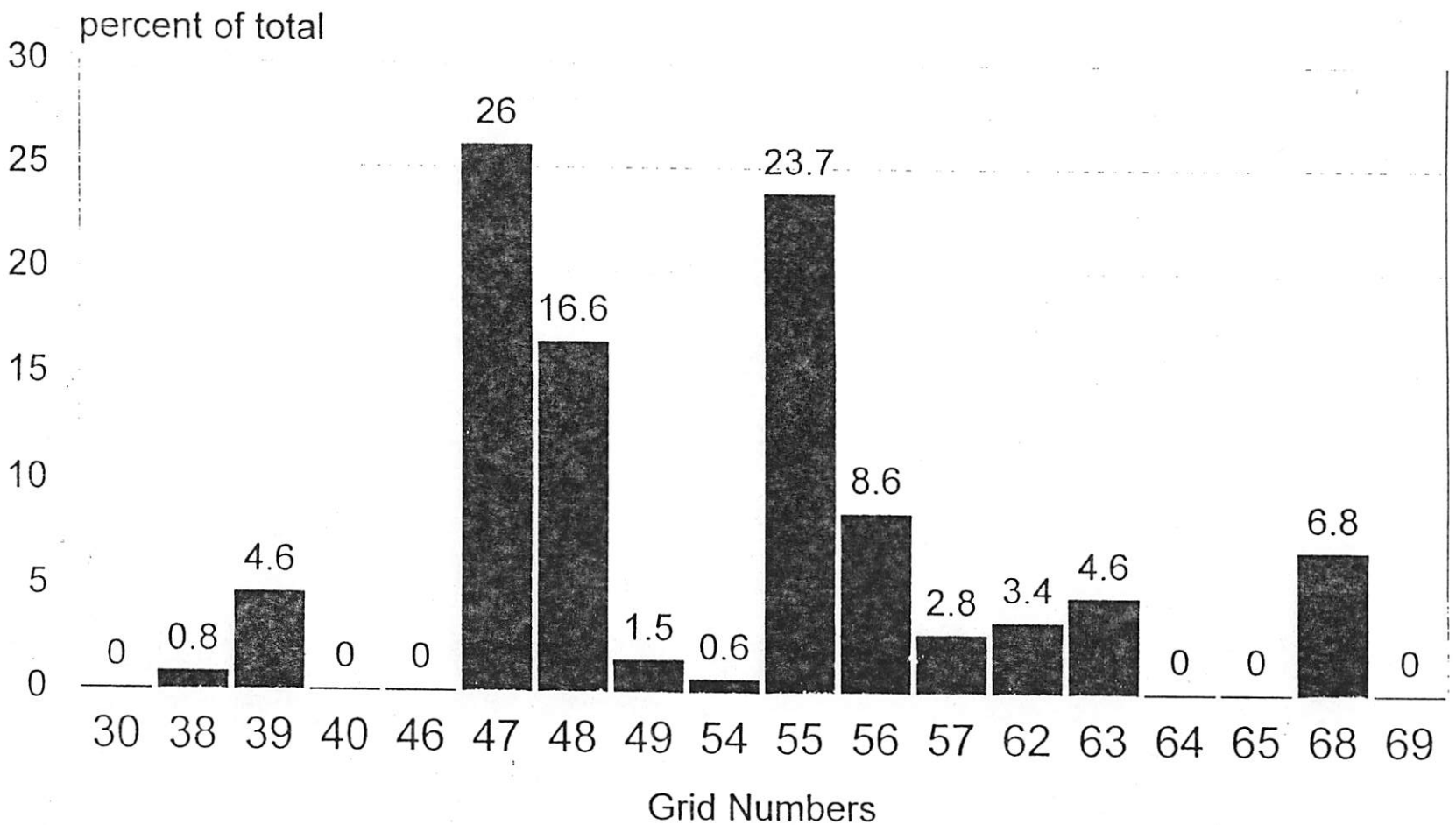


98/99 Season

Ron,
Here are draft version of graphs for 98/99 season
I'm working on the text
Pam

DRAFT

SEED OYSTER PRODUCTION
Breton Sound Basin Public Grounds

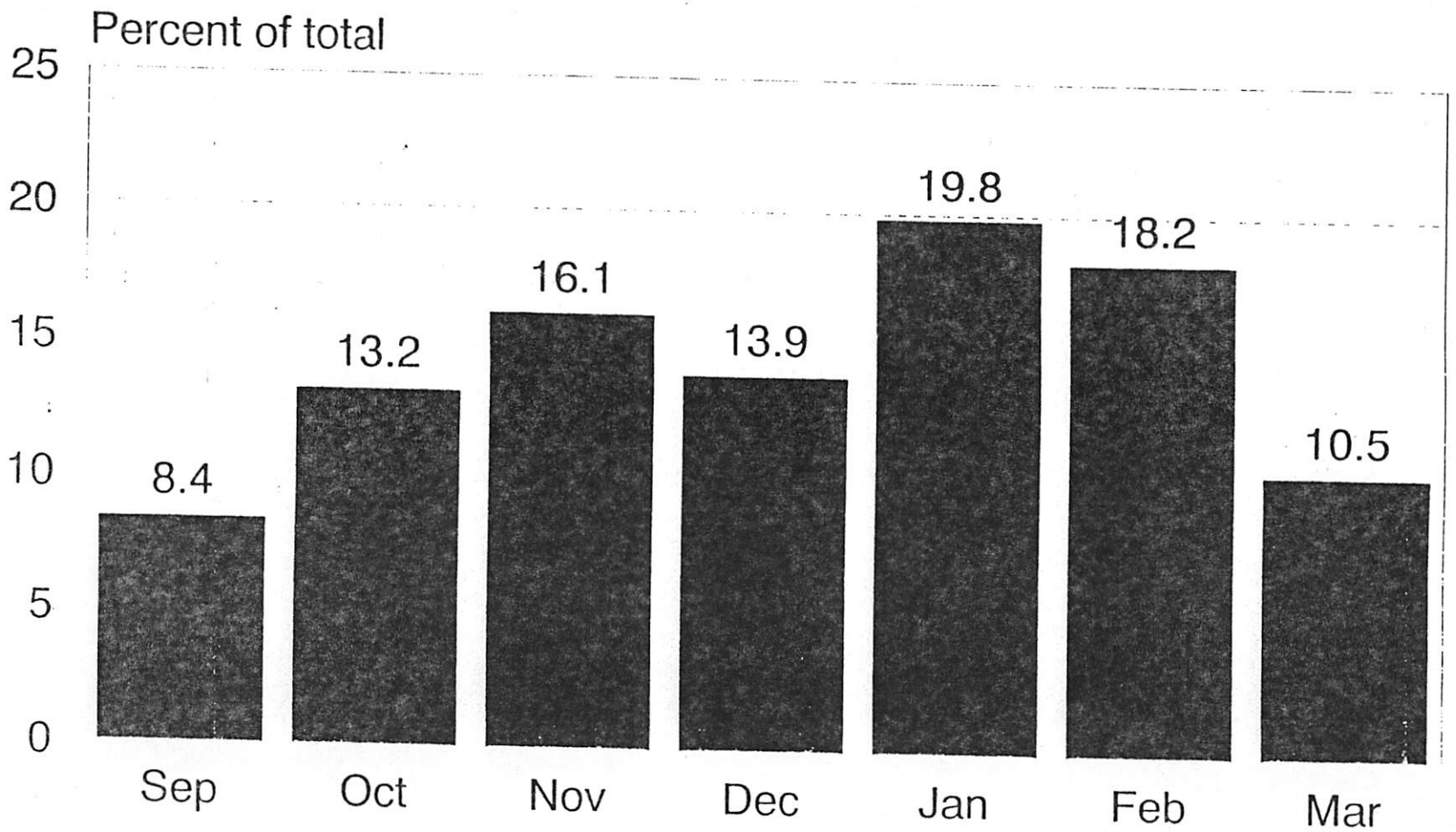


98/99 season

DRAFT

SACK PRODUCTION

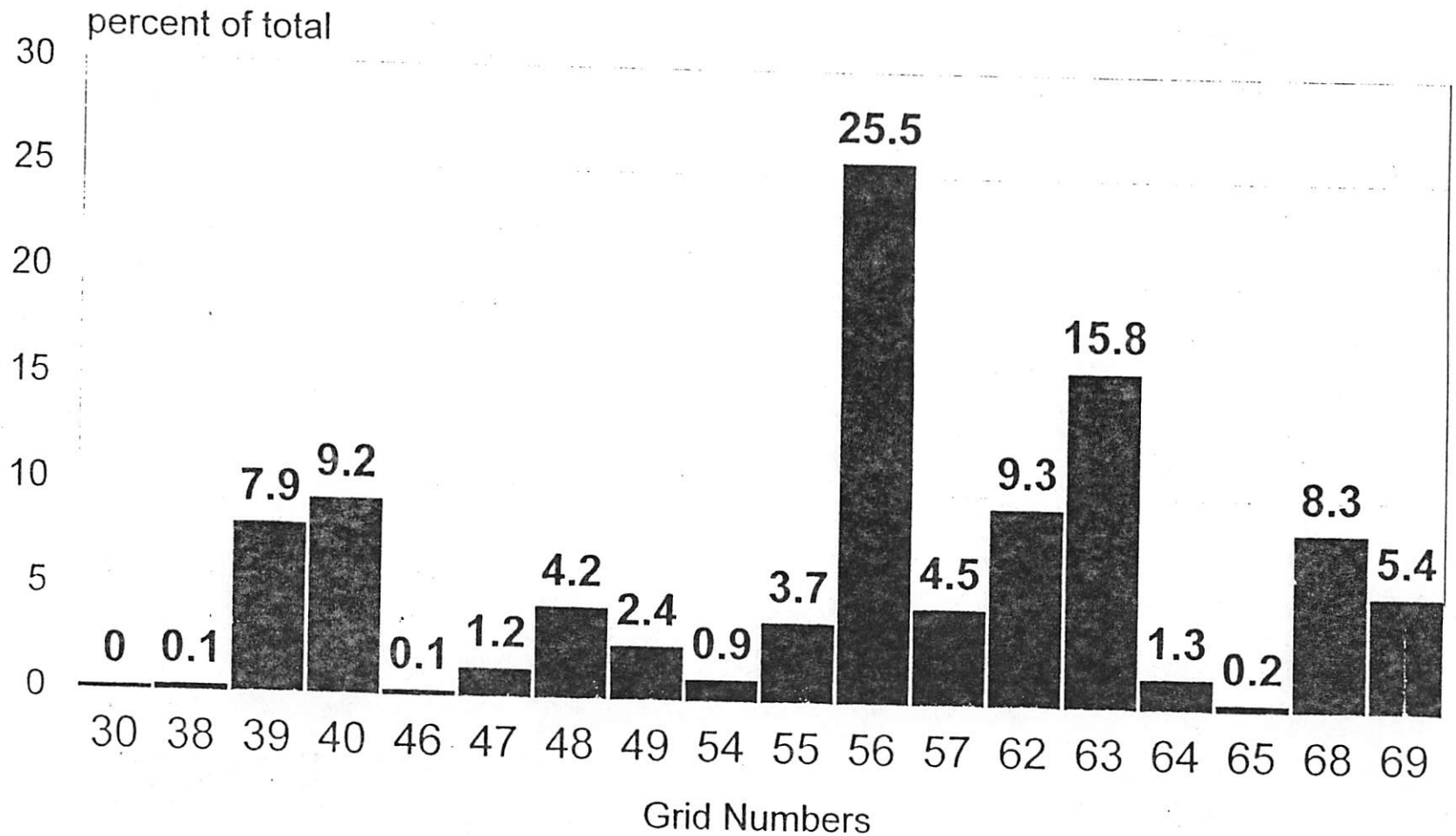
Breton Sound Basin Public Grounds



98/99 Season

DRAFT

SACK OYSTER PRODUCTION
Breton Sound Basin Public Grounds



98/99 season

DRAFT

State of Louisiana

James H. Jenkins, Jr.
Secretary

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

M.J. "Mike" Foster, Jr.
Governor

Date: June 14, 1999

To: Ron Dugas, Molluscan Programs Manager, Marine Fisheries

From: Randall B. Pausina, Acting Biologist Supervisor, CSA III RBP 6525

Subject: 1998-99 Hackberry Bay Oyster Seed Reservation Report

The Hackberry Bay Oyster Seed Reservation opened at ½ hour before sunrise on Sept. 9th, 1998. Sampling teams were unable to detect oyster fishing activity during this week due to adverse weather conditions following the passage of Hurricane Earl. Following this event business resumed as usual with an average of 6 boats a month using the Hackberry Reservation. Overall, oyster fishers that routinely use the bay, are pleased with production and feel a new infusion of cultch material is needed. They also feel that Hackberry Bay can again be productive by providing local fishers with a nearby source of seed oysters. This action will alleviate long trips to larger and more productive seed reservations which in turn would benefit the oyster fisher by lessening expenses and seed oysters would be less stressed thus increasing survivability. Total oyster production for Hackberry Bay was 3,646 barrels of seed oyster material and 10,375 sacks of marketable oysters. A breakdown by month, site, and type (seed or sack) follows:

	1998-99*						
	"94" cultch site		non-cultch site		comb. sites		
year/month	seed	sack	seed	sack	seed	sack	# of boats
98 Sept	1,400	450	250	50	1,650	500	5
98 Oct.	175	2585	125	550	300	3,135	6
98 Nov.	700	825	25	850	725	1,675	6
98 Dec.	150	450	150	2,435	300	2,885	8
99 Jan.	0	200	161	600	161	800	5
99 Feb.	0	480	393	225	393	705	7
99 Mar.	0	325	118	350	118	675	5
total	2,425	5,315	1,221	5,060	3,646	10,375	ave # of boats 6

*Seed column data is in barrels and sack column data is in sacks.
Seed=combination of cultch material and seed taken to be bedded.
Sack=oysters taken directly to market.

State of Louisiana

James H. Jenkins, Jr.
Secretary

Department of Wildlife and Fisheries
Post Office Box 189
Bourg, LA 70343
(504)594-4139

M.J. "Mike" Foster
Governor

November 23, 1998

Memorandum

TO: Ron Dugas, Programs Manager

FROM: Martin Bourgeois and Paul Meier, CSA-V MB 3493

SUBJECT: Sister Lake Special Season

A special "12 - Day" season, unrestricted by any seasonal public health closure, was opened for the harvest of both sack and seed oysters in the Sister Lake Oyster Seed Reservation beginning at one-half hour before sunrise Monday, October 5, 1998 and ended one-half hour after sunset Friday, October 16, 1998. Total documented sack and seed production during the special season measured 33,020 sacks and 15,228 barrels, respectively, for a combined total of 31,738 barrels making these twelve days the most productive of any within this decade (Figure 1).

Combined sack and seed production from the 1994 and 1995 shell plants was 6,413 barrels and 9,320 barrels (Table 1) contributing 20% and 29%, respectively to total production (Figure 2). Percentage contributions from the 1994 and 1995 shell plants and Sister Lake reefs (Figures 3 and 4) reflect an almost inversed trend in the percentage of contributions between shell plants from a year ago.

Fishing effort during the season, measured in number of boat days, ranged from a high of 89 boats on opening day to 43 observed on the 16th. A total of 126 different vessels (Table 2) were observed and identified as fishing in Sister Lake during the season. Approximately 19 vessels were identified as having Louisiana home ports east of the Mississippi River, nine from Texas ports and 5 from ports in Mississippi. High effort levels can also be directly attributed to an increased number of displaced vessels operating in Sister Lake due to emergency public health closures (9/29/98-10/13/98) enacted in state waters east of the Mississippi River as a result of Hurricane Georges. Most effort during the first 5 days of the season was concentrated within the area bounded by Sister Lake Camp, Walker's Pt. and Grand Pass. Effort as well as production subsequently shifted from

the northern part of the Lake and the 1995 North shell plants, with greater proportions of sack production reported from reefs scattered throughout the Lake by season's end (Figure 5). Effort and seed production followed a similar trend with greater proportions reported from the 1994 shell plants and reefs (Figure 6).

Seed oyster production during the season exceeded that of any opening twelve days within the past four seasons and accounted for approximately 48% of total production. Several boats exclusively engaged in bedding throughout the season, planting oysters as far away as Grand Isle. Shell plants accounted for the largest volume of seed oysters harvested (15,228 barrels), comprising 53% of total seed production (Figure 3). The 1994 and 1995 shell plants contributed approximate equal proportions, 28% and 25%, respectively to seed production totals. Likewise, sack oyster production exceeded that of any opening twelve days within the past four seasons. Overall, boats averaged 60 sacks/day opening day, declined to 45 sacks/day mid-way through the season and by season's end averaged 35 sacks/day (Figure 7). Shell plants contributed approximately 46% to total sack production with the 1995 shell plants contributing 33% alone (Figure 4).

On Wednesday, October 7, 1998, the U.S. Immigration and Naturalization Service with assistance from the Terrebonne Parish Sheriff's Office and LDWF wildlife agents boarded oyster boats working in Sister Lake and detained approximately 8 illegal aliens working as deck hands. One Texas captain lost his entire crew. Numerous harvesters complained of high populations of undersized oysters and wide-spread illegal sacking practices. Additional reports of these wide-spread practices were verified by Enforcement Division personnel. Agents assigned to the Oyster Strike Force as well as Region 9 issued a number of citations to operators sacking undersized oysters. In some instances dredges were confiscated; however, I am unaware of any instances in which operators were ordered to return deck loads overboard.

Wholesale dockside prices for Sister Lake oysters remained at $15/sack with one Texas dealer paying $16/sack, a significant increase over the $13/sack paid a month earlier for Bay Junop oysters. Yields were higher than this time last year and were reported to be 5.5 lbs.

cc: Karen Foote
Claude Boudreaux

SISTER LAKE OYSTER SEASON 1998

Vessel Number	Vessel Name	Vessel Owner	Vessel Operator	Size
1	My Melanie		East	Med
2	Capt. Joby		East	Lge
3	KAT		East	Med
4	Capt. Nelson	Curtis Duet		Lge
5	Challenger		East	Lge
6	Braud & Tracy	Wilbert Collins	Tracy Collins	Lge
7	Capt. Wilbert	Wilbert Collins	Tracy Collins	Lge
8	Little Sarah			Lge
9	Mathilda		East	Lge
10	Lady Jennifer		East	Med
11	Liberty		East	Med
12	Dalmagija		Texas	Lge
13	St Frane		East	Med
14	Capt. John		East	Med
16	Gusto		East	Lge
17	A.I.T.		East	Med
18	Lady Mary	William Dehart	William Dehart	Med
154796	Lady D		Jose Hernandez	Med
191647	Lady Ethel	Curtis Duet		Lge
240640	Brandi Renae		East	Lge
258235	Miss Patsy	Byron Liner, Jr.	Byron Liner, Jr.	Lge
264470	Capt. Junior	Texas	Aubrey Terry	Med
266808	GVS		East	Med
277943	Debbie	Mike Bagala	Scott Bagala	Med
292502	Good Raleigh	Willie Daisy	Willie Daisy	Med
295009	Joey & Judy		Texas	Lge
296428	Country Boy	Irene Verdin	Roosevelt Falgout	Lge
504083	Connie Renee			Lge
526052	Capt. Oscar	Maria Vergara	Daniel Vergara	Lge
530905	Big Bad John		East	Med
545779	Miss Laura	Jose Carbajal	Jose Carbajal	Med
549817	Dustin Paul		East	Lge
552623	Zaklin		East	Lge
554729	Mr. Chris		East	Lge
575533	The Ambassador		East	Lge
587328	Miss Sabrina	Evans Verdin, Jr.	Evans Verdin, Jr.	Med
593089	Bayou Sale		Texas	Lge
596737	Capt. Tracy II	Calvin Dufrene		Lge
603993	Lady Melissa			Med
607928	M-M		Texas	Med
615931	Capt. Billy Boy		Mississippi	Med
622237	Toby Shantele	Buddy Daisy		Lge
623976	Miss Sandy			Lge
640516	Whiskey River		Mississippi	Med
985563	Miss Mamie			Lge
997115	Jafer	Texas	Adam Durand	Med
1020287	Kaly		Texas	Med

1034059	Miss Lori Lee	Lawrence Boquet		Med
1062361				Med
EW 7473			Lawrence Chiasson	Med
LA 0409 SL	Capt. Jeff	Willie Daisy	Daniel Dehart	Med
LA 0659 EG		Juan Castenada	Marco Navaro	Med
LA 0914 ZH	Miss Tabatha	Willie Daisy	Morris Dehart	Med
LA 1304 EU		Wesley Vail	Justin Lacoste	Sml
LA 1393 EX		Herman Callais		Med
LA 1473 BV		Jose Palencia	Jose Palencia	Sml
LA 1476 BB	Nicole Marie	Rodney Verdin	Rodney Verdin	Med
LA 1528 CA	Lil Jacquelin	Antonio Aguado		Med
LA 1563 CA	Pablo I	Pablo Cervantes	Mario Rivas	Med
LA 1849 AA		Terry Nettleton		Med
LA 1854 CA		Terry Nettleton	Paul Verret	Med
LA 2204 BW	Miss Chickey	David Lacoste	David Lacoste	Med
LA 2216 EJ		Gulf Breeze Sfd	John Williams	Med
LA 2293 BP	Miss Jaclyn	Howard Verdin	Howard Verdin	Med
LA 2433 ER	Miss Michelle	Jose Carbajal	Fernando Carbajal	Med
LA 2721 EW		Derek Green		Med
LA 2842 EX		Julius Lacoste	Julius Lacoste	Sml
LA 2883 CA		Misael Carbajal	Misael Carbajal	Med
LA 2918 EV		Travis Lacoste	Travis Lacoste	Sml
LA 2962 BV		William Dehart		Sml
LA 2963 BV		Orlando Navarro		Sml
LA 3009 BM	Miss Bea	Laurentino Cardenas	Guinald Billiot	Med
LA 3033 CA		Roger Billiot		Sml
LA 3081 BW		Derek Green	Steve Verdin	Sml
LA 3185 EA	Lady Merril	Derek Green	Roger Billiot	Lge
LA 3213 AT	Miss Sana	Abelardo Carbajal		Med
LA 3300 CA	Smokey	Terry Nettleton	Jesse Dardar	Med
LA 3506 AP	Capt. Pedro, Jr.	Pedro Hernandez	Pedro Garcia	Med
LA 3670 EN		Guy Lirette	Guy Lirette	Sml
LA 3994 ER	Danny Boy	Derek Green	Errol Billiot	Med
LA 4044 AG	Lil Barge	Gulf Breeze Sfd.	Jesse Pellegrin	Sml
LA 4506 AS		Jesus Zarraga		Med
LA 4628 BV	Chief	Terry Nettleton	Andrew Chiasson	Med
LA 4709 BU		Joseph Verdin	Joseph Verdin	Sml
LA 4768 BV	Lady Linda	Leray Billiot	Leray Billiot	Med
LA 5016 CA		Joseph Billiot	Brian Billiot	Sml
LA 5281 AX		Santos Rodriguez		Med
LA 5427 BJ		Terry Nettleton		Med
LA 5447 BJ		Richard Bergeron		Sml
LA 5593 ET	Miss Angelica	Jesus Zarraga	Luis Zarraga	Lge
LA 5625 AP	St. Thomas	Efram Naquin	Efram Naquin	Med
LA 5851 ET		Derek Green		Lge
LA 6028 EV		Lawrence Boquet	Mike Dardar	Sml
LA 6131 AY		Javier Nacedo	Rene Perron	Sml
LA 6162 BV		Byron Liner	Wesley Dehart	Sml
LA 6432 ET		Beto Delgado		Sml

LA 6540 CA	Zoran	Zoran Nikolovski	East	Med
LA 6555 BV		Rene Romero		Sml
LA 6634 EW	Lady Rachel	J. Daisy & Sons	Forrest Kiffe	Med
LA 6781 ES	Miss Lacey	T&C Oysters, Inc.	Alton Naquin	Med
LA 6859 AT	Lady Ouida	Nelson Lirette	Terry Lirette	Med
LA 7316 BU		Loney Dardar, Jr.		Sml
LA 7497 EV		Melecio Real-Leon	Melecio Real-Leon	Sml
LA 7610 ER		Tommy Dardar	Joseph Dardar	Med
LA 7725 AA	Miss Darlene	L. Cardenas		Med
LA 8043 EW	Lil Hog	Russel Callahan		Sml
LA 8051 EA		Javier Macedo	Javier Aguilar	Sml
LA 8096 BF	Golddigger	Abelardo Carbajal	Santa Carbajal	Med
LA 8325 BH		Willie Daisy		Sml
LA 8664 BV	Capt. Eric	William Fitch	William Fitch	Med
LA 8687 BT	TIN	Ivan Bjelis		Med
LA 8796 EU		T&S Holdings, Inc.		Med
LA 9365 BP		Mark Griffin	Willie Daisy	Sml
LA 9427 BU	Miss Mayra	Tomas Cervantes		Med
LA 9504 BT	Big Dream	C."Buddy" Lirette	C. "Buddy" Lirette	Lge
LA 9576 AA		Abelardo Carbajal	Ismael Ortiz	Med
LA 9577 BU	Capt. Oscar	Maria Vergara		Med
LA 9578 BA	Capt. Gene	Emiliano Avilez	Emiliano Carbajal	Med
LA 9938 BE	Capt. Mark	Mark Naquin	Mark Naquin	Med
LA 9963 EF		Patrick Collins		Med
MI 4642 AV			Mississippi	Med
MI 6200 B			Mississippi	Lge
MI 7039 AW	Mr. Mike		Mississippi	Med
TX 2331 AY	Hvar		Texas	Lge
TX 2530 JA			Texas	Med
TX 9044 ZW	VIS		Texas	Med

Figure 1. Sister Lake Production and Effort - First Twelve Days

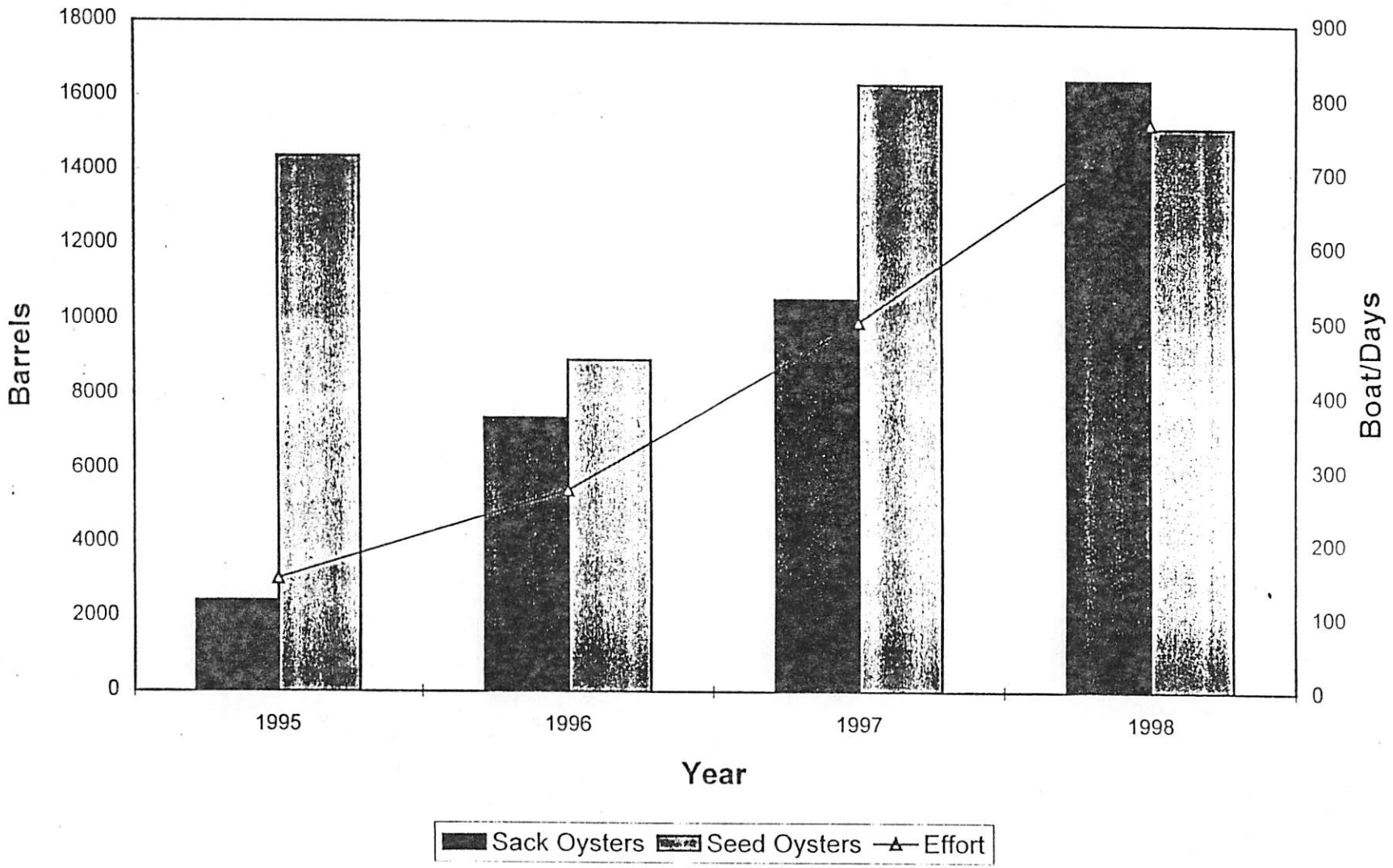


Figure 2. Sister Lake Combined Sack and Seed Production
Special Season (October 5-16, 1998)

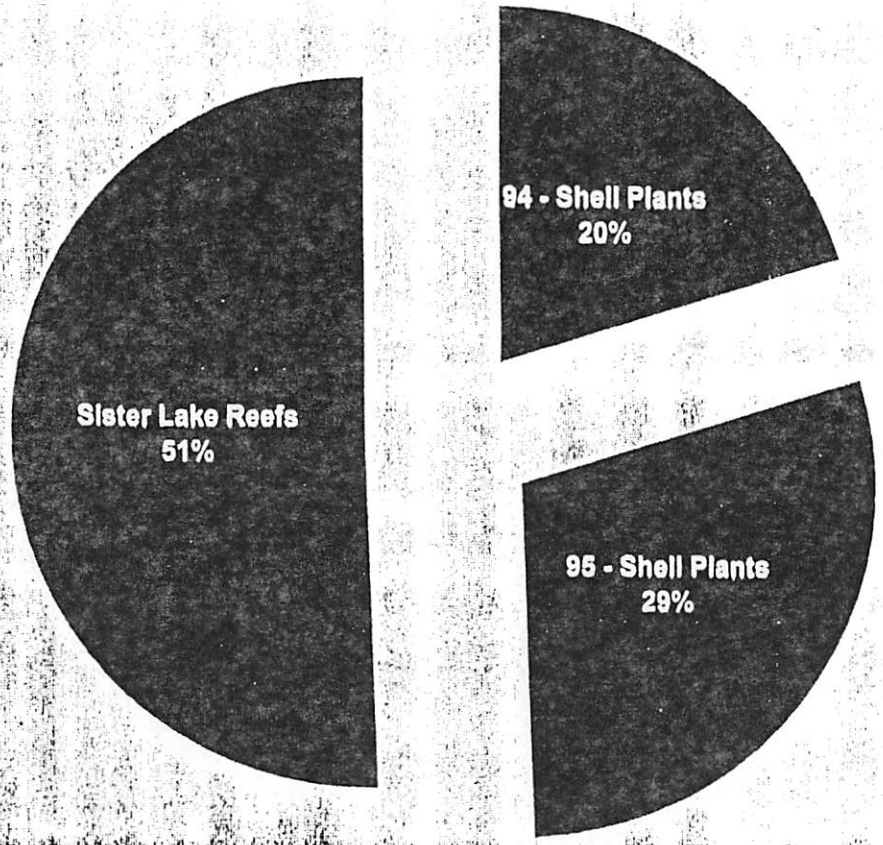


Figure 3. Sister Lake Seed Production
Special Season (October 5-16, 1998)

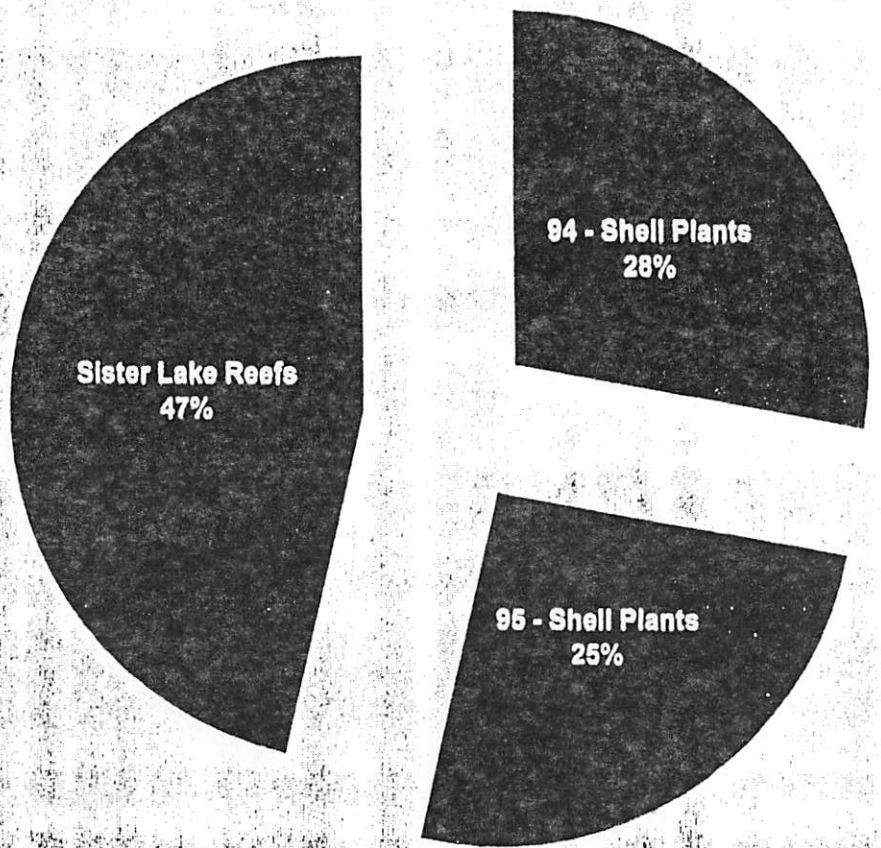


Figure 4. Sister Lake Sack Production
Special Season (October 5-12, 1998)

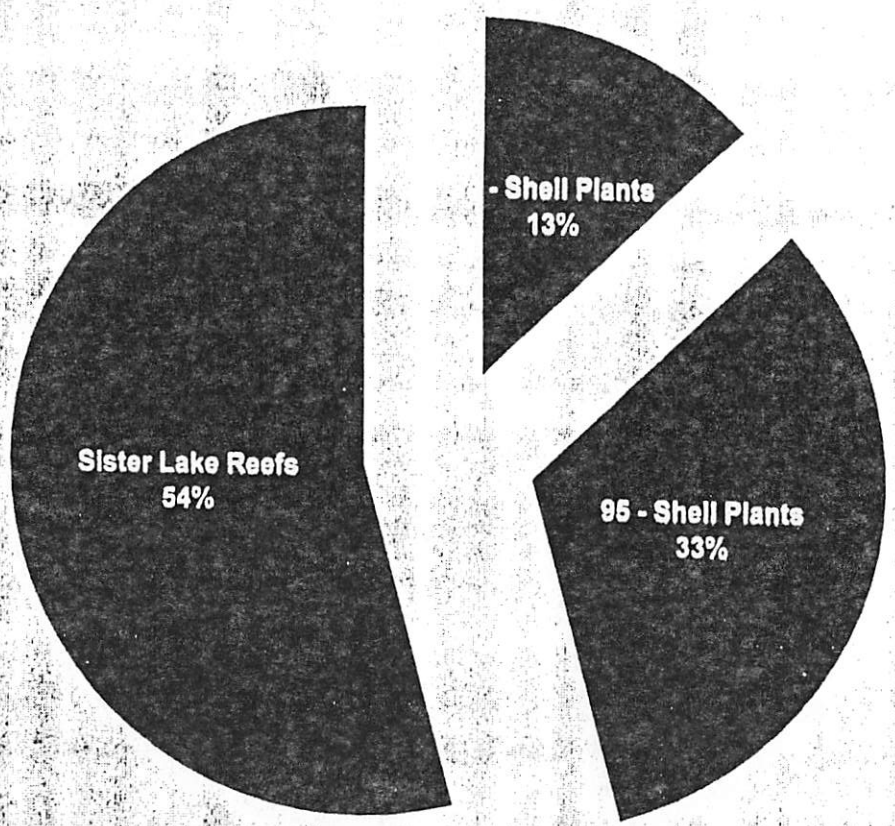


Figure 5. Sister Lake Sack Oyster Production By Area
Special Season (October 5-16, 1998)

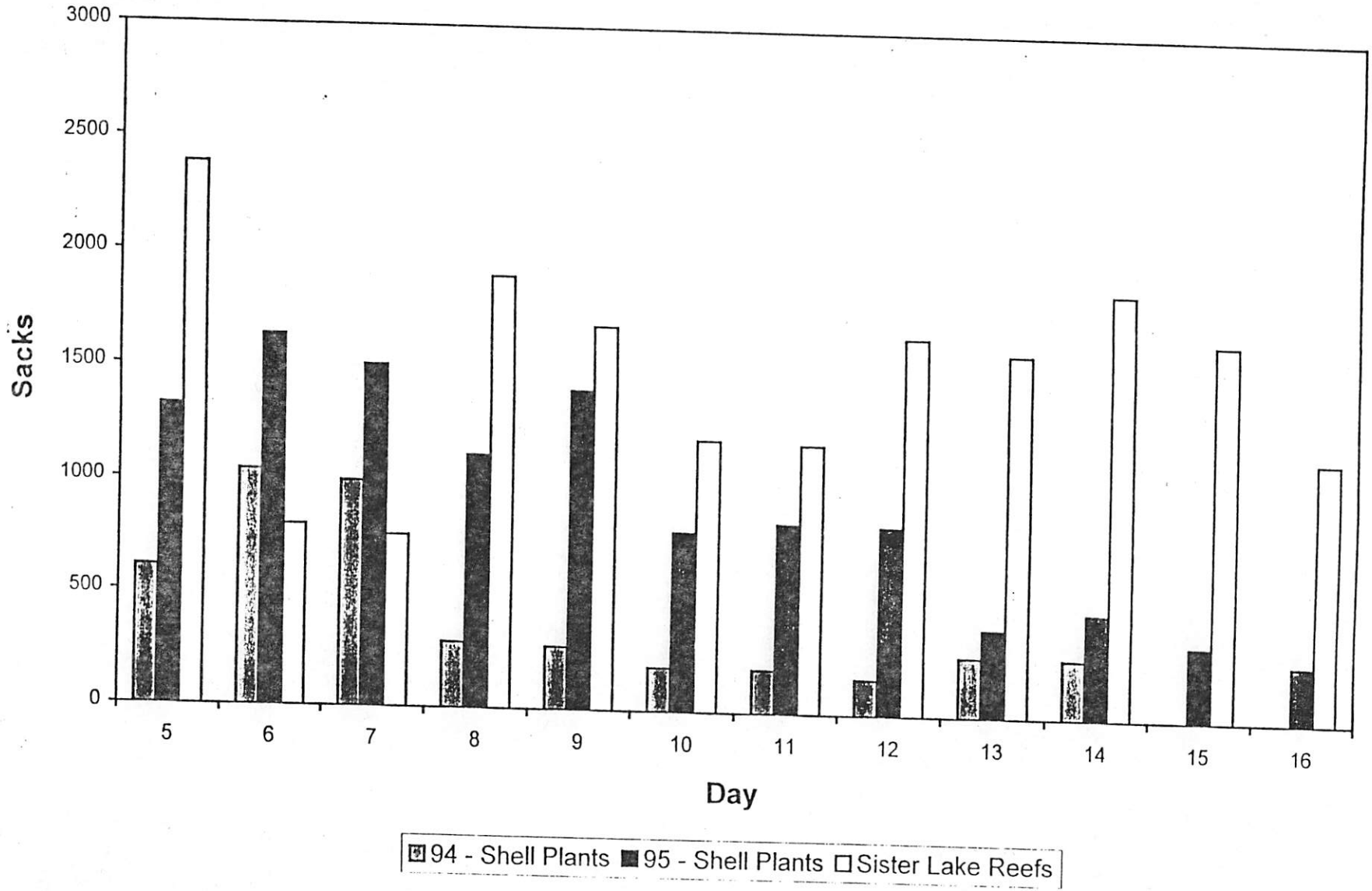


Figure 6. Sister Lake Seed Oyster Production By Area
Special Season (October 5-16, 1998)

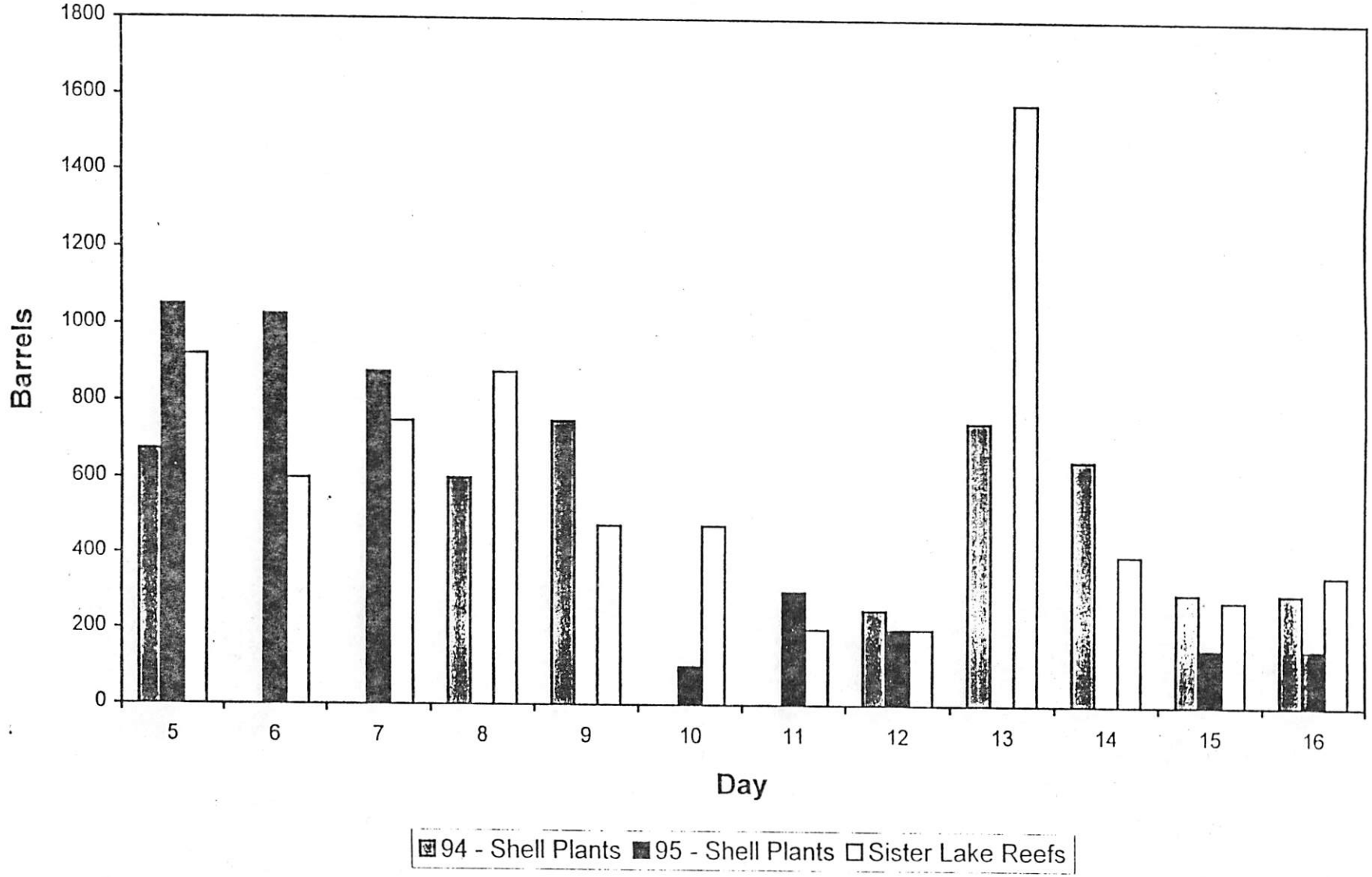
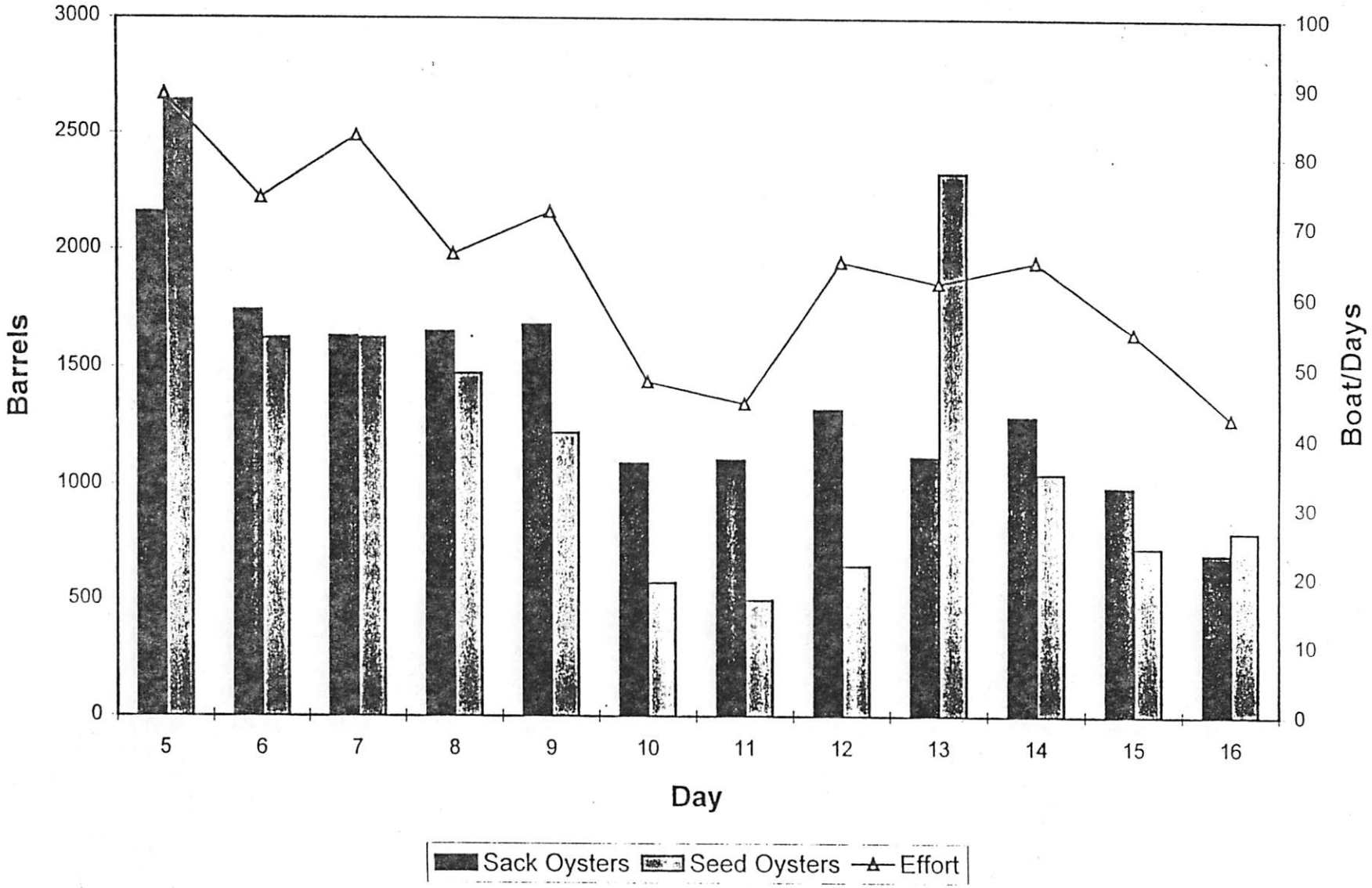


Figure 7. Sister Lake Production and Fishing Effort
Special Season (October 5-16, 1998)



State of Louisiana

James H. Jenkins, Jr.
Secretary

Department of Wildlife & Fisheries
Post Office Box 189
Bourg, LA 70343
(504)594-4139

M.J. "Mike" Foster, Jr.
Governor

May 28, 1999

Memorandum

To: Ronald Dugas, Programs Manager

From: Martin Bourgeois and Paul Meier, CSA-V MB 3493 pm #2400

Subject: 1998-99 Bay Junop Oyster Seed Reservation Season Annual Production Report

The 1998-99 Bay Junop Oyster Seed Reservation Season was opened to both sack and seed oyster harvest at one-half hour before sunrise Wednesday, September 9, 1998 and closed one-half hour after sunset Saturday May 15, 1998. Total documented sack and seed production measured 20,345 (40,690 sacks) and 6,205 barrels, respectively, for a combined harvest total of 26,552 barrels making this season the second highest production season on record (Figure 1). Sack oyster production was greater during the 1996-97 season while seed oyster production was exceeded only by the 1991-92 season. Production totals were compiled from LDWF boarding reports and inspection of onboard molluscan shellfish logbooks and wholesale/retail dealer landings records.

Combined sack and seed production from Grids J1 and J2 (Figure 2) measured 2,913 and 23,639 barrels contributing 11% and 89% (Figure 3), respectively, to total oyster production. Both fishing effort as well as production levels were largely influenced by a series (4) of public health closures (Figures 4-7) which increasingly restricted available reef acreage approved for harvest before Bay Junop re-opened entirely on May 1, 1999.

Fishing effort during the season, measured in number of boat days, totaled 1,114 (Figure 1) and ranked second highest on record. A total of 97 different vessels (Table 1) were observed and identified harvesting sack and seed oysters in Bay Junop through the season. Most effort during the early part of the season, which included 72 boats on opening day, was concentrated on reefs in south Bay Junop. Effort and production levels during September (Figure 8) were considerably affected by a series (3) of tropical storm/hurricane warnings which produced gale winds and flood tides through portions of the month. Although smaller vessels were restricted due to an unusually high

number of weather days, prevailing high tides enabled larger vessels utilizing large dredges greater access to many shallow-water reefs. October effort and production in Bay Junop (Figure 9) dropped significantly from levels measured in September due to re-directed effort created by the 12-day special season (10/5-16/99) held in Sister Lake. Following October, both effort and harvest levels dropped further due to additional acreage within Bay Junop impacted by seasonal public health closures. Monthly sack oyster production thereafter remained fairly static through December before increasing slightly in January due primarily to unusually high seasonal tides then dropped again in February (Tables 2-8). Due to seasonal public health closure, Bay Junop remained closed during March and April.

Beginning May 1, a 15-day Bay Junop season extension resulted in a dramatic increase in both effort and harvest (Figure 10). A significant amount of reef acreage, primarily in Grid J1, previously unavailable for harvest throughout the season due to public health closure, became approved for harvest. Resultantly, high effort and production levels experienced during the extension rivaled levels documented in September due to high resource availability on reefs previously closed as well as on reefs which received limited fishing pressure early in the season before being impacted by seasonal public health closures. It is important to note that one major dealer placed sack limits on boats following the first day of the extension. This dealer removed sack limit restrictions after a period of only 4-5 days.

Average daily vessel harvest measured 43 sacks per boat in September, declined to 29 sacks per boat in October, remained at 24 sacks per boat from November through January, declined to 18 sacks per boat in February before increasing to 40 sacks per boat during the May extension (Figure 10). In comparison, 8 vessels (14 boat days) harvested 2,525 barrels of seed oysters averaging 180 barrels per boat per day in September and 9 vessels (15 boat days) harvested 3,680 barrels of seed oysters averaging 245 barrels per boat per day in May. The apparent high volume of daily vessel seed oyster production was primarily due to several operators ability to make multiple deck-loads within a day while bedding in adjacent East Bay Junop.

Yields averaged 5.5 lbs per sack in September and had increased to 8 lbs per sack by May 1 before declining to 7.5 lbs per sack by season end. Wholesale dockside prices ranged from $11.00/sack early in the season and increased to $14.00/sack in May.

cc: Karen Foote
Claude Boudreaux

Figure 1. Bay Junop Annual Production and Fishing Effort

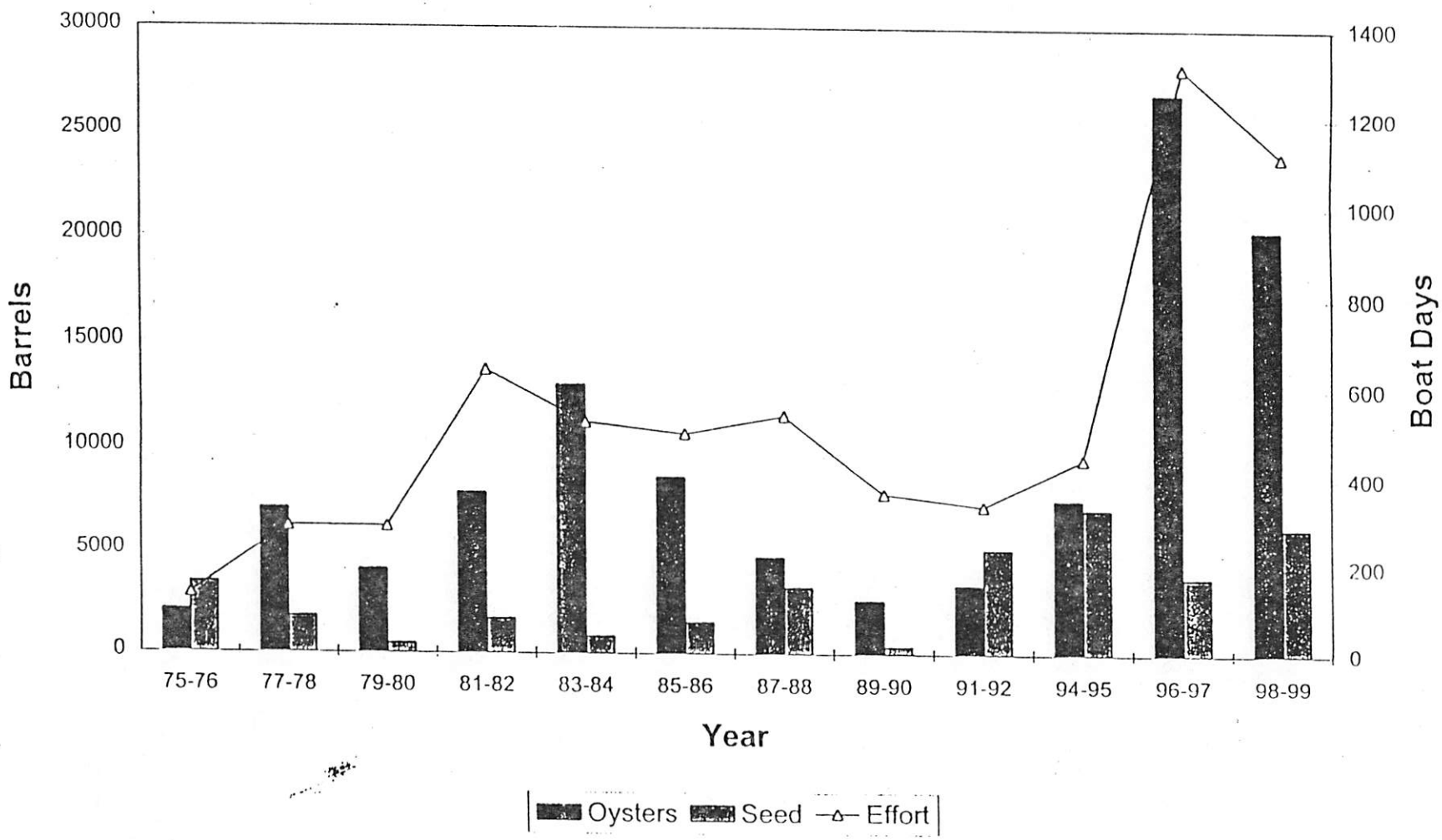


Figure 2. Bay Junop Grid Locations

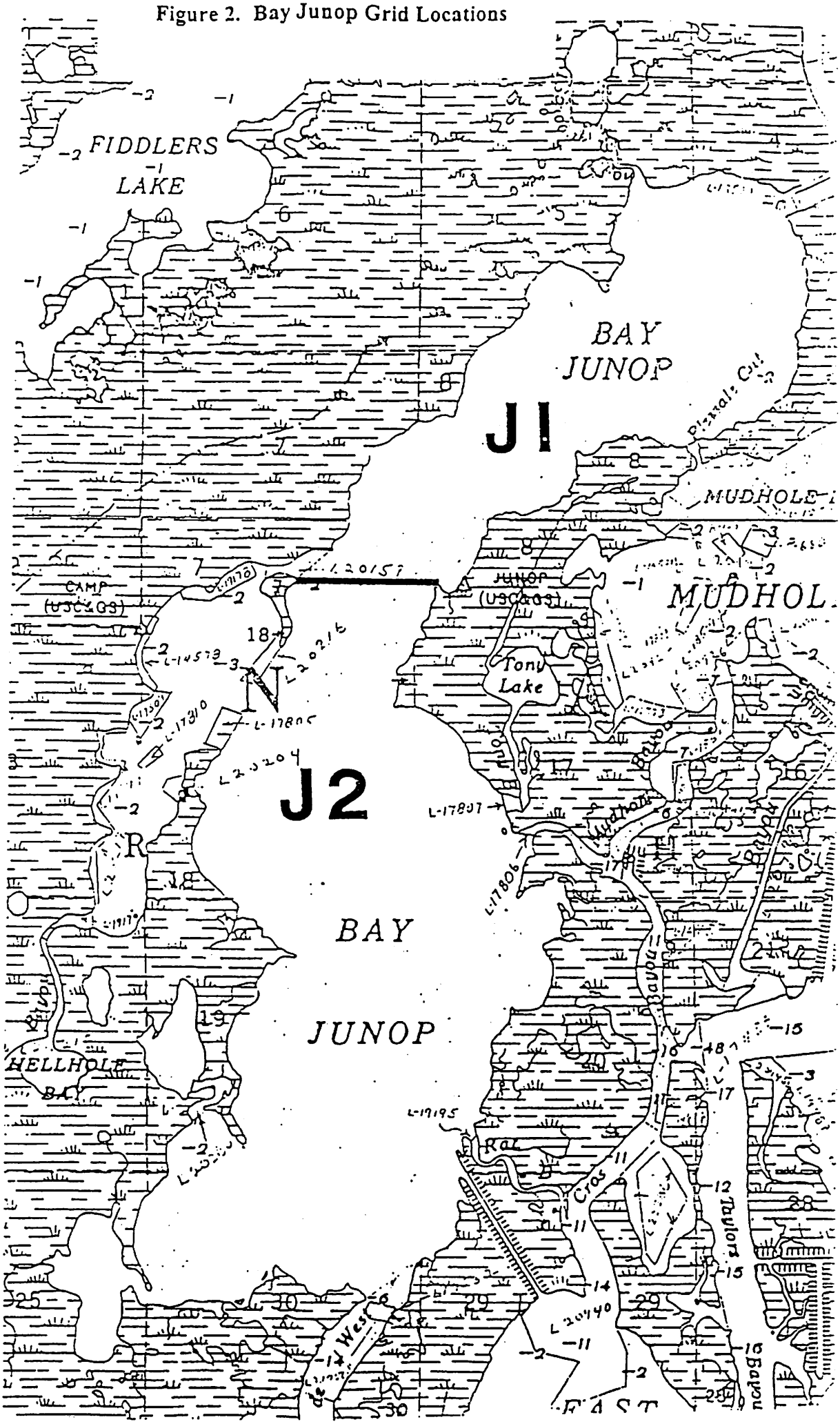


Figure 3. Percentage of Oyster Production by Grid, Bay Junop 1998-99

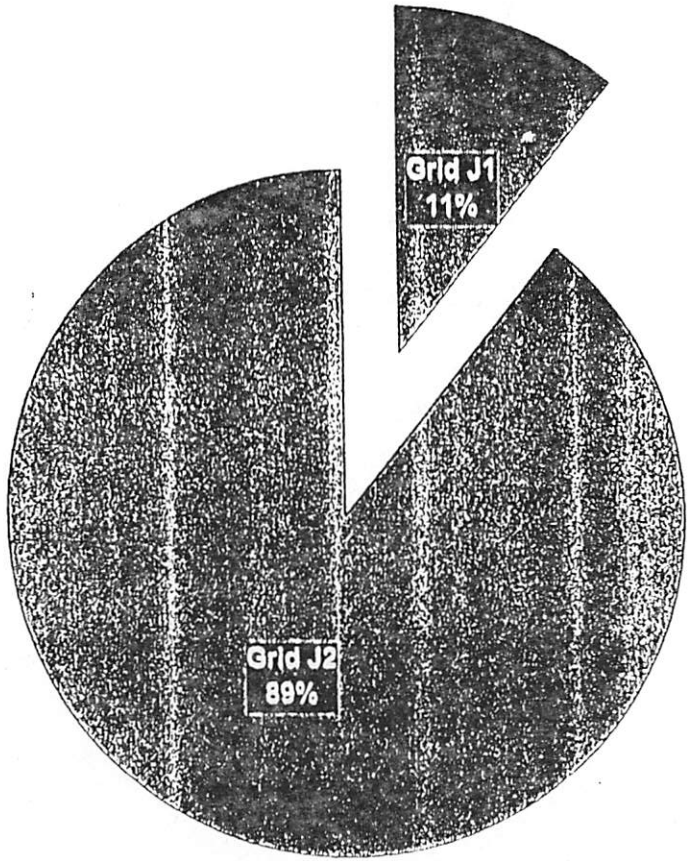


Figure 4. Bay Junop Seasonal Public Health Closure (09/01/98 - 10/31/98)

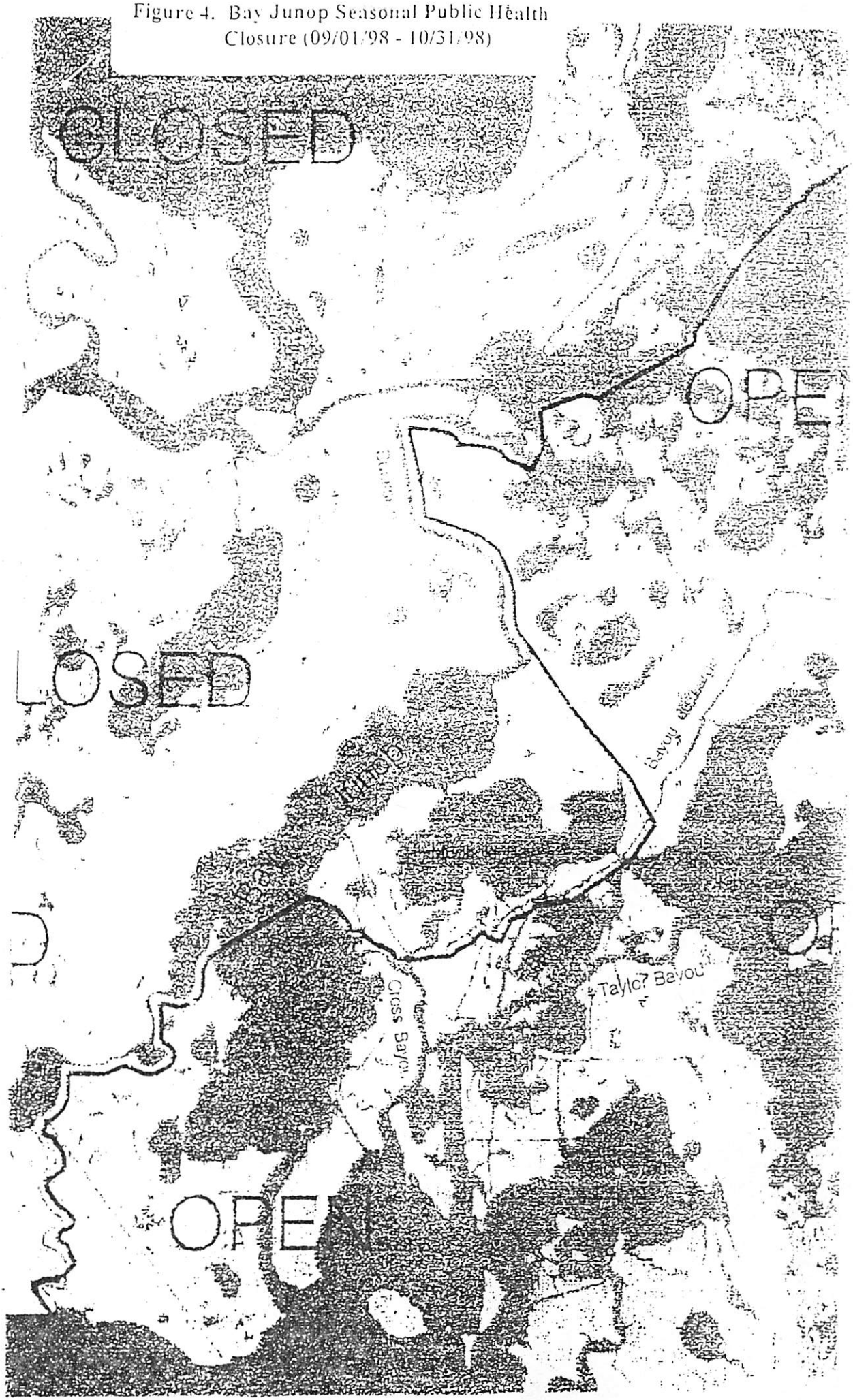


Figure 5. Bay Junop Seasonal Public Health Closure (11/01/98 - 02/28/99)

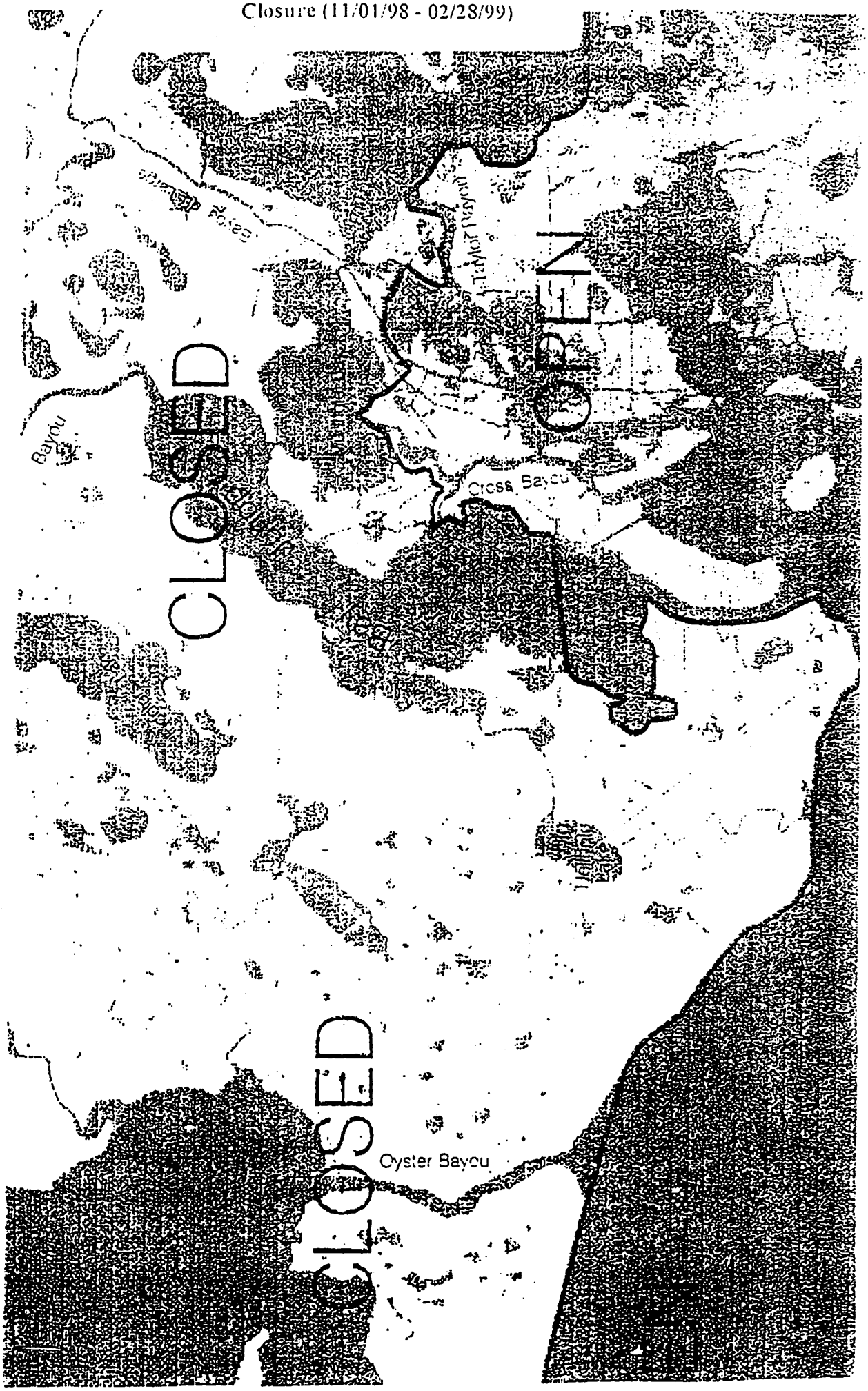


Figure 6. Bay Junop Seasonal Public Health Closure (03/01/99 - 04/30/99)

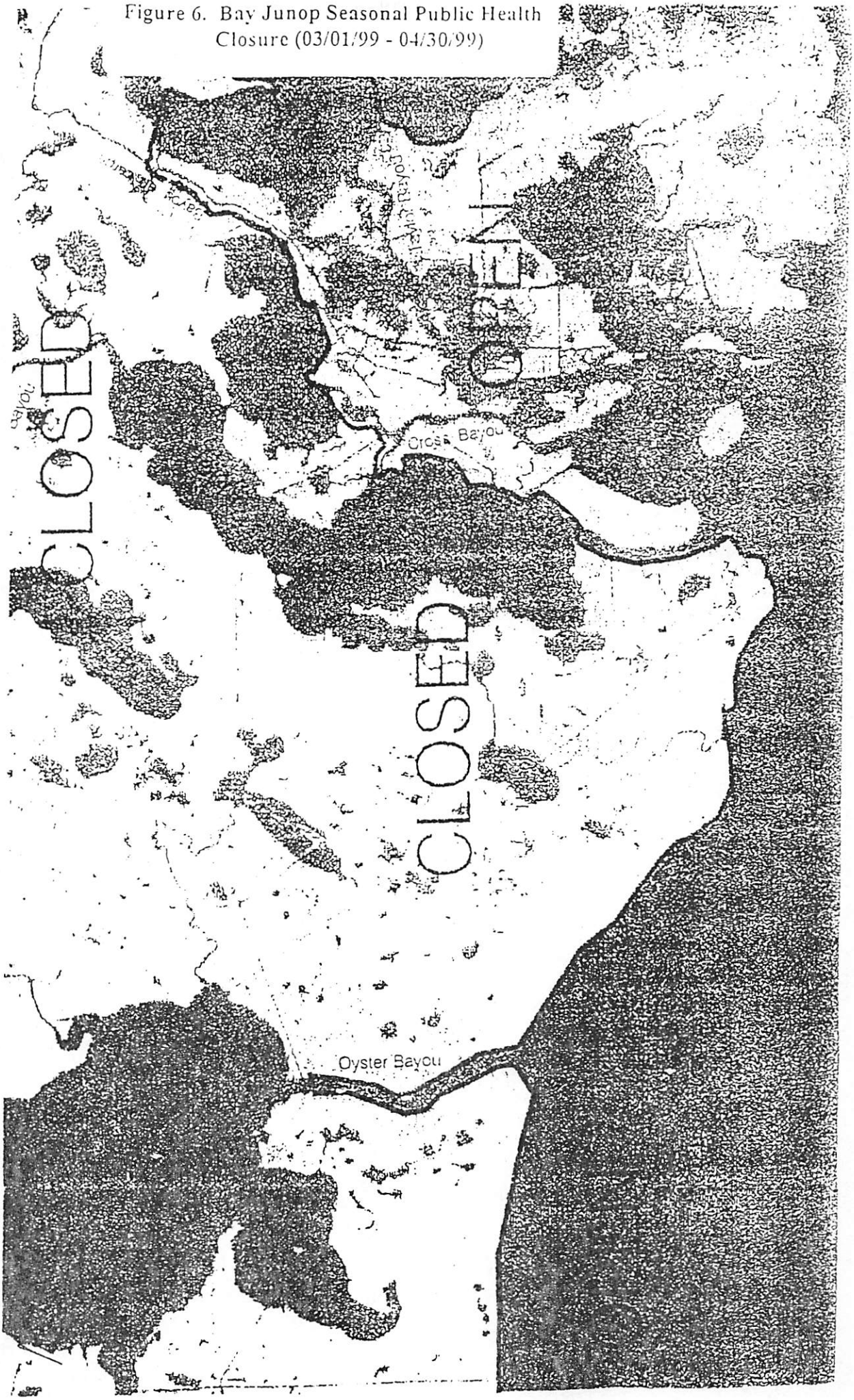


Figure 7. Bay Junop Seasonal Public Health Closure (05/01/99 - 08/31/99)

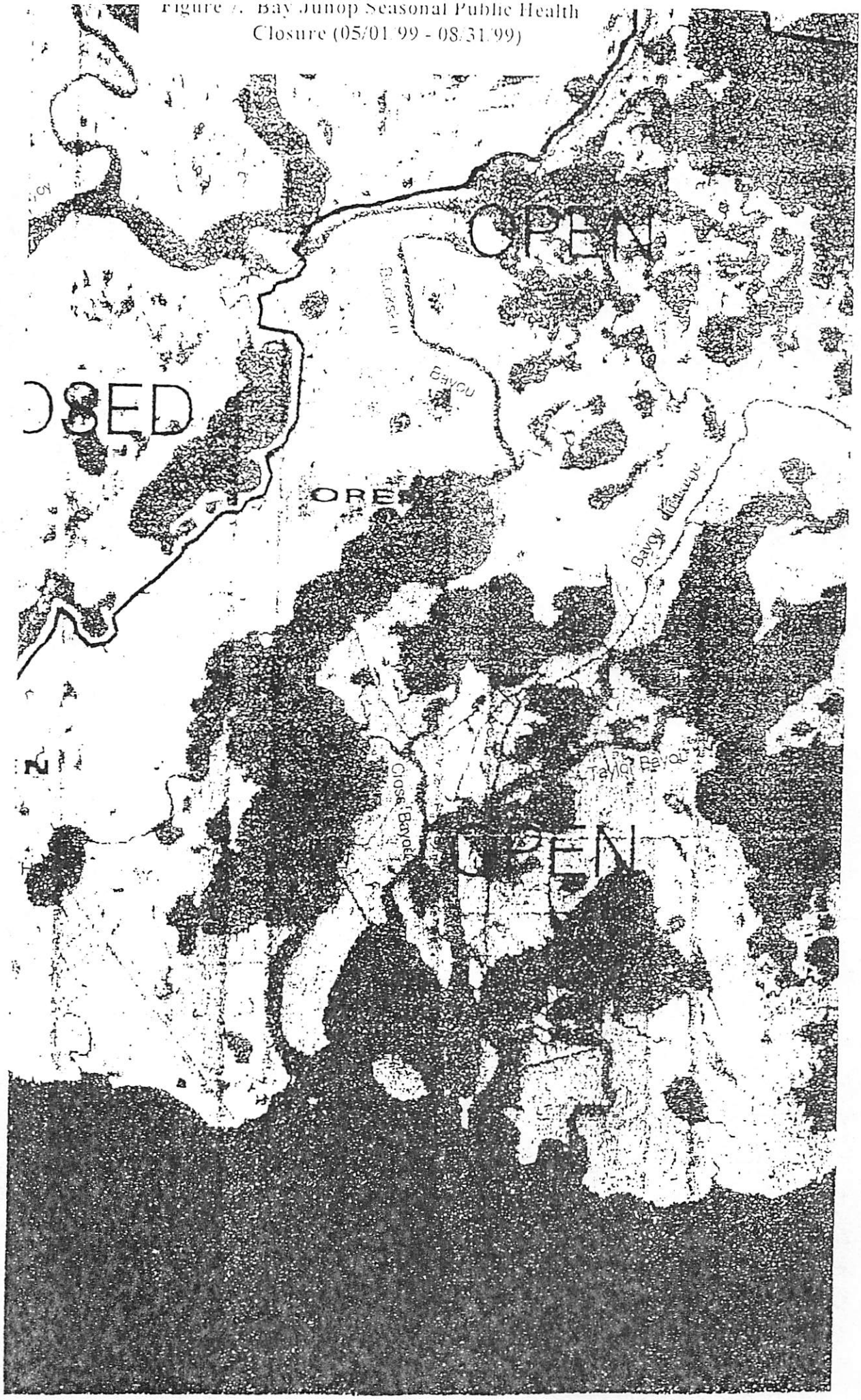


Figure 8. Bay Junop Combined Production and Fishing Effort, September 1998-99

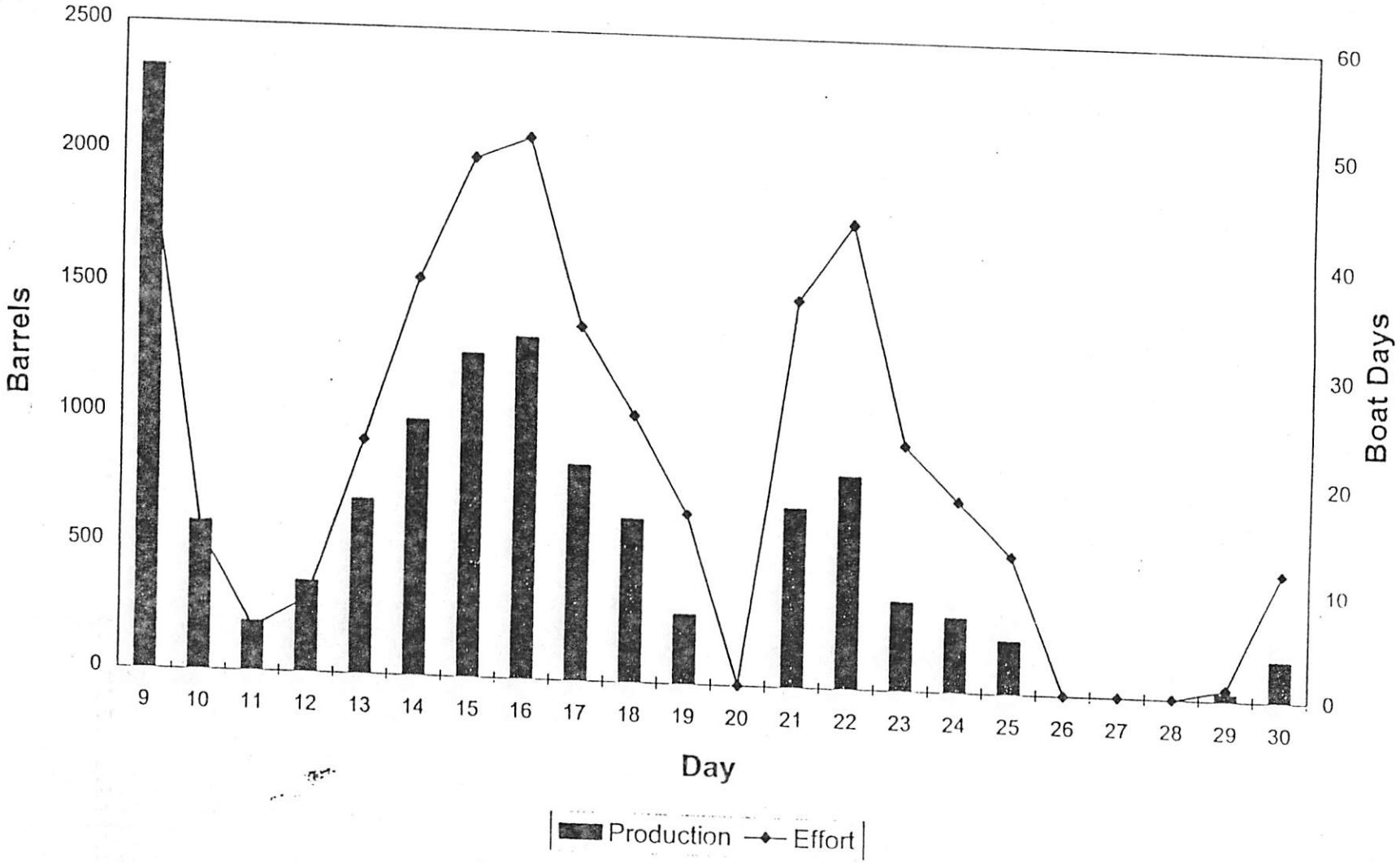


Figure 9. Bay Junop Combined Production and Fishing Effort, October 1998-99

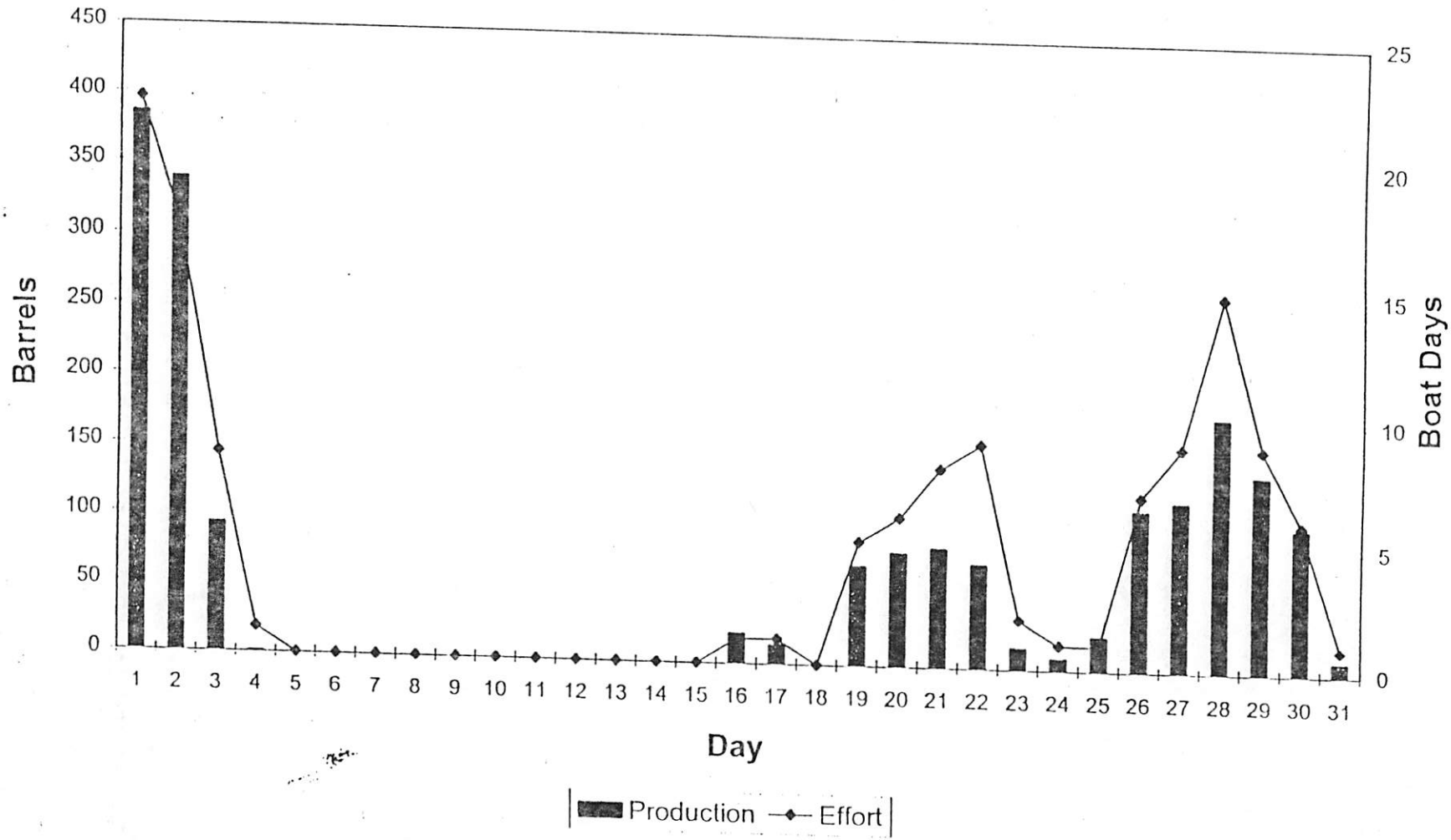


Figure 10. Bay Junop Combined Production and Fishing Effort, May 1998-99

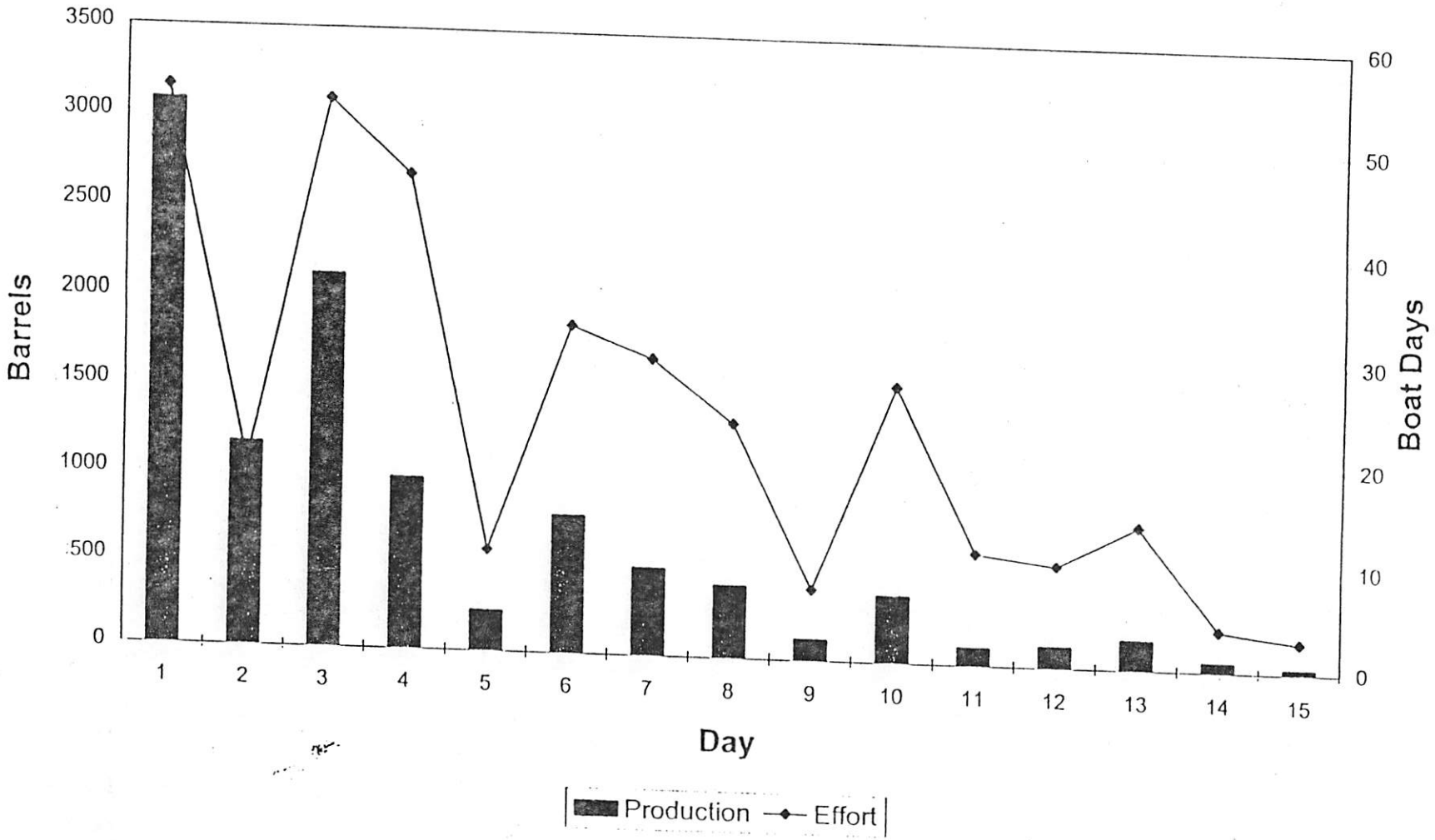


Figure 10. Average Daily Vessel Sack Oyster Production and Fishing Effort, Bay Junop 1998-99

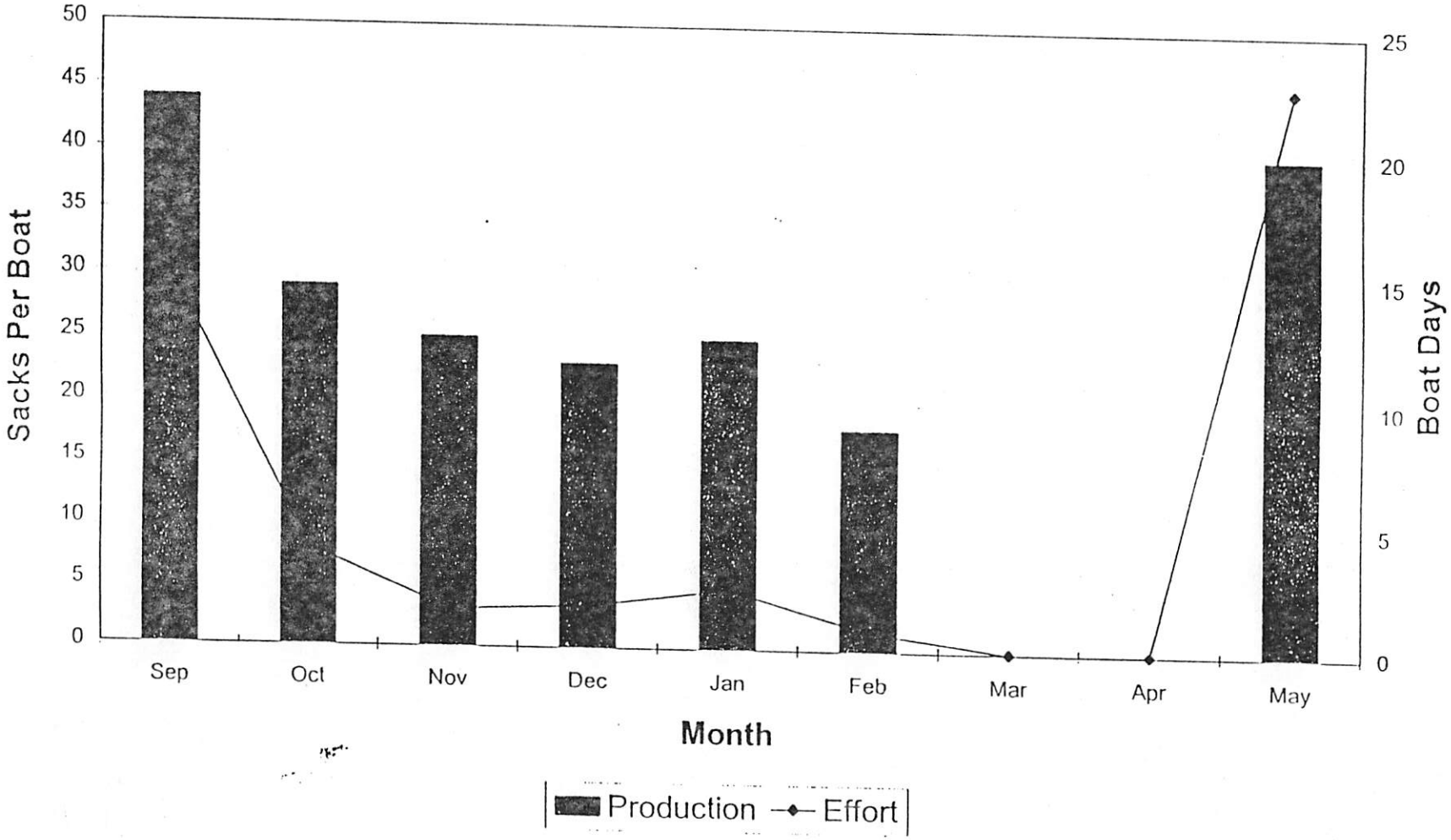


Table 1

BAY JUNOP OYSTER SEASON 1998-99

Vessel Number	Vessel Name	Vessel Owner	Vessel Operator	Size
1		William Dehart	William Dehart	Med
2	Good Luck		Leroy Dufrene	Sml
3	Miss Melanie	Derek Green		Med
4	Miss Ella Ann		Shane Bagala	Med
154796	Lady D		Jose Hernandez	Med
230455	Capt Darcey		Errol Billiot	Med
258235	Miss Patsy	Byron Liner, Jr.	Byron Liner, Jr.	Lge
264470	Capt. Junior	Texas	Aubrey Terry	Med
277943	Debbie	Mike Bagala	Scott Bagala	Med
292502	Good Raleigh	Willie Daisy	Willie Daisy	Med
296428	Country Boy	Irene Verdin	Roosevelt Falgout	Lge
526052	Capt. Oscar	Maria Vergara	Daniel Vergara	Lge
545779	Miss Laura	Jose Carbajal	Jose Carbajal	Med
575533	The Ambassador			Lge
997115	Jafer	Texas	Adam Durand	Med
1034059	Miss Lori Lee	Lawrence Boquet		Med
LA 0409 SL	Capt. Jeff	Willie Daisy	Daniel Dehart	Med
LA 0447 ZF		Wesley Verdin	Wesley Verdin	Sml
LA 0659 EG		Juan Castenada	Marco Navaro	Med
LA 0914 ZH	Miss Tabatha	Willie Daisy	Morris Dehart	Med
LA 1304 EU		Wesley Vail	Justin Lacoste	Sml
LA 1473 BV		Jose Palencia	Jose Palencia	Sml
LA 1476 BB	Nicole Marie	Rodney Verdin	Rodney Verdin	Med
LA 1528 CA	Lil Jacquelin	Antonio Aguado	Antonio Aguado	Med
LA 1563 CA	Pablo I	Pablo Cervantes	Mario Rivas	Med
LA 1760 BV		Eugis Lirette	Eugis Lirette	Med
LA 1849 AA		Terry Nettleton		Med
LA 1854 CA		Terry Nettleton	Paul Verret	Med
LA 2204 BW	Miss Chickey	David Lacoste	David Lacoste	Med
LA 2216 EJ		Gulf Breeze Sfd	John Williams	Med
LA 2293 BP	Miss Jaclyn	Howard Verdin	Howard Verdin	Med
LA 2433 ER	Miss Michelle	Jose Carbajal	Fernando Carbajal	Med
LA 2721 EW		Derek Green	Roberto Garcia	Sml
LA 2749 EY		Chad Verdin	Chad Verdin	Sml
LA 2842 EX		Julius Lacoste	Julius Lacoste	Sml
LA 2883 CA		Misael Carbajal	Misael Carbajal	Med
LA 2918 EV		Travis Lacoste	Travis Lacoste	Sml
LA 2962 BV		William Dehart		Sml
LA 2963 BV		Orlando Navarro		Sml
LA 3009 BM	Miss Bea	Laurentino Cardenas	Guinald Billiot	Sml
LA 3033 CA		Roger Billiot		Sml
LA 3081 BW		Derek Green		Sml
LA 3185 EA	Lady Merril	Derek Green	Roger Billiot	Lge
LA 3213 AT	Miss Sana	Abelardo Carbajal		Med
LA 3300 CA	Smokey	Terry Nettleton	Jesse Dardar	Med
LA 3384 BV		David Lacoste	David Lacoste	Sml

LA 3506 AP	Capt. Pedro, Jr.	Pedro Hernandez	Pedro Garcia	Med
LA 3670 EN		Guy Lirette	Guy Lirette	Sml
LA 3910 EX		William Dehart		Sml
LA 3994 ER	Danny Boy	Derek Green	Errol Billiot	Med
LA 4044 AG	Lil Barge	Gulf Breeze Sfd.	Jesse Pellegrin	Sml
LA 4195 EU		Emiliano Carbajal	Emiliano Carbajal	Sml
LA 4506 AS				Med
LA 4628 BV	Chief	Terry Nettleton	Andrew Chiasson	Med
LA 4709 BU		Joseph Verdin	Joseph Verdin	Sml
LA 4768 BV	Lady Linda	Leray Billiot	Leray Billiot	Med
LA 5016 CA		Joseph Billiot	Brian Billiot	Sml
LA 5223 EY		Domingo Yelazquez	Policarpo Delgado	Med
LA 5281 AX		Santos Rodriguez	Santos Rodriguez	Med
LA 5427 BJ		Terry Nettleton		Med
LA 5447 BJ		Richard Bergeron		Sml
LA 5593 ET	Miss Angelica	Jesus Zarraga	Luis Zarraga	Lge
LA 5791 ES		Billy Blanchard	Billy Blanchard	Sml
LA 5810 EB		Enclove Collins		Med
LA 6028 EV		Lawrence Boquet	Mike Dardar	Sml
LA 6079 ER		Lloyd Nelton	Lloyd Nelton	Sml
LA 6131 AY		Javier Nacedo	Rene Perron	Sml
LA 6162 BV		Byron Liner	Wesley Dehart	Sml
LA 6227 CA		Wilber Dehart		Sml
LA 6410 AF		Carlin Dehart	Carlin Dehart	Sml
LA 6432 ET		Beto Delgado	Beto Delgado	Sml
LA 6555 BV		Rene Romero	Rene Romero	Sml
LA 6634 EW	Lady Rachel	J. Daisy & Sons	Forrest Kiffe	Sml
LA 6781 ES	Miss Lacey	T&C Oysters, Inc.	Alton Naquin	Med
LA 6859 AT	Lady Ouida	Nelson Lirette	Terry Lirette	Med
LA 6907 BA		Quincy Verret	Quincy Verret	Med
LA 7160 EN		Quincy Verret	Quincy Verret	Sml
LA 7316 BU		Loney Dardar, Jr.		Sml
LA 7473 EW		Allen Breaux	Lawrence Chaisson	Med
LA 7497 EV		Melecio Real-Leon	Melecio Real-Leon	Sml
LA 7610 ER		Tommy Dardar	Joseph Dardar	Med
LA 7725 AA		L. Cardenas		Med
LA 8043 EW	Lil Hog	Russel Callahan	Rene Berrum	Sml
LA 8051 EA		Javier Macedo	Javier Aguilar	Sml
LA 8096 BF	Golddigger	Abelardo Carbajal	Santa Carbajal	Med
LA 8325 BH		Willie Daisy		Sml
LA 8664 BV	Capt. Eric	William Fitch	William Fitch	Med
LA 8796 EU		T&S Holdings	Ernest Naquin	Med
LA 9365 BP	Just In Case	Mark Griffin	Willie Daisy	Sml
LA 9427 BU	Miss Mayra	Tomas Cervantes		Med
LA 9442 BF		Derek Green	Joseph Billiot	Sml
LA 9504 BT	Big Dream	C."Buddy" Lirette	C. "Buddy" Lirette	Lge
LA 9576 AA		Abelardo Carbajal	Ismael Ortiz	Med
LA 9577 BU	Capt. Oscar	Maria Vergara		Med
LA 9578 BA	Capt. Gene	Emiliano Avilez	Emiliano Carbajal	Med
LA 9938 BE	Capt. Mark	Mark Naquin	Mark Naquin	Med
LA 9963 EF	Miss Jo Ellen	Patrick Collins	Patrick Collins	Med

Table 2

1998-99 BAY JUNOP OYSTER SEED RESERVATION SEASON - SEPTEMBER									
Date	# Sacks Grid J1	#Bar/Seed Grid J1	# Boats Grid J1	# Sacks Grid J2	#Bar/Seed Grid J2	# Boats Grid J2	# Sacks B. Junop	#Bar/Seed B. Junop	# Boats B. Junop
01	-	-	0	-	-	0	-	-	0
02	-	-	0	-	-	0	-	-	0
03	-	-	0	-	-	0	-	-	0
04	-	-	0	-	-	0	-	-	0
05	-	-	0	-	-	0	-	-	0
06	-	-	0	-	-	0	-	-	0
07	-	-	0	-	-	0	-	-	0
08	-	-	0	-	-	0	-	-	0
09	-	-	0	2,158	1,250	47	2,158	1,250	47
10	-	-	0	264	450	13	264	450	13
11	-	-	0	82	150	4	82	150	4
12	-	-	0	411	150	7	411	150	7
13	-	-	0	1,369	0	22	1,369	0	22
14	-	-	0	1,998	0	37	1,998	0	37
15	-	-	0	2,515	0	48	2,515	0	48
16	-	-	0	2,402	125	50	2,402	125	50
17	-	-	0	1,390	150	33	1,390	150	33
18	-	-	0	983	150	25	983	150	25
19	-	-	0	544	0	16	544	0	16
20	-	-	0	-	-	0	-	-	0
21	-	-	0	1,409	0	36	1,409	0	36
22	-	-	0	1,467	100	43	1,467	100	43
23	-	-	0	700	0	23	700	0	23
24	-	-	0	584	0	18	584	0	18
25	-	-	0	412	0	13	412	0	13
26	-	-	0	-	-	0	-	-	0
27	-	-	0	-	-	0	-	-	0
28	-	-	0	-	-	0	-	-	0
29	-	-	0	54	0	1	54	0	1
30	-	-	0	317	0	12	317	0	12
Totals	0	0	0	19,059	2,525	448	19,059	2,525	448

Table 3

1998-99 BAY JUNOP OYSTER SEED RESERVATION SEASON - OCTOBER									
Date	# Sacks Grid J1	#Bar/Seed Grid J1	# Boats Grid J1	# Sacks Grid J2	#Bar/Seed Grid J2	# Boats Grid J2	# Sacks B. Junop	#Bar/Seed B. Junop	# Boats B. Junop
01	-	-	0	771	0	22	771	0	22
02	-	-	0	677	0	17	677	0	17
03	-	-	0	185	0	8	185	0	8
04	-	-	0	2	0	1	2	0	1
05	-	-	0	-	-	0	-	-	0
06	-	-	0	-	-	0	-	-	0
07	-	-	0	-	-	0	-	-	0
08	-	-	0	-	-	0	-	-	0
09	-	-	0	-	-	0	-	-	0
10	-	-	0	-	-	0	-	-	0
11	-	-	0	-	-	0	-	-	0
12	-	-	0	-	-	0	-	-	0
13	-	-	0	-	-	0	-	-	0
14	-	-	0	-	-	0	-	-	0
15	-	-	0	-	-	0	-	-	0
16	-	-	0	41	0	1	41	0	1
17	-	-	0	28	0	1	28	0	1
18	-	-	0	-	-	0	-	-	0
19	-	-	0	145	0	5	145	0	5
20	-	-	0	166	0	6	166	0	6
21	-	-	0	174	0	8	174	0	8
22	-	-	0	155	0	9	155	0	9
23	-	-	0	31	0	2	31	0	2
24	-	-	0	18	0	1	18	0	1
25	-	-	0	50	0	1	50	0	1
26	-	-	0	233	0	7	233	0	7
27	-	-	0	245	0	9	245	0	9
28	-	-	0	367	0	15	367	0	15
29	-	-	0	286	0	9	286	0	9
30	-	-	0	211	0	6	211	0	6
31	-	-	0	20	0	1	20	0	1
Totals	0	0	0	3,805	0	129	3,805	0	129

Table 4

1998-99 BAY JUNOP OYSTER SEED RESERVATION SEASON - NOVEMBER									
Date	# Sacks Grid J1	#Bar/Seed Grid J1	# Boats Grid J1	# Sacks Grid J2	#Bar/Seed Grid J2	# Boats Grid J2	# Sacks B. Junop	#Bar/Seed B. Junop	# Boats B. Junop
01	-	-	0	-	-	0	-	-	0
02	-	-	0	20	0	1	20	0	1
03	-	-	0	54	0	3	54	0	3
04	-	-	0	271	0	10	271	0	10
05	-	-	0	19	0	1	19	0	1
06	-	-	0	11	0	1	11	0	1
07	-	-	0	-	-	0	-	-	0
08	-	-	0	25	0	1	25	0	1
09	-	-	0	69	0	3	69	0	3
10	-	-	0	30	0	1	30	0	1
11	-	-	0	8	0	1	8	0	1
12	-	-	0	62	0	2	62	0	2
13	-	-	0	40	0	1	40	0	1
14	-	-	0	-	-	0	-	-	0
15	-	-	0	-	-	0	-	-	0
16	-	-	0	50	0	2	50	0	2
17	-	-	0	50	0	2	50	0	2
18	-	-	0	55	0	2	55	0	2
19	-	-	0	85	0	4	85	0	4
20	-	-	0	70	0	3	70	0	3
21	-	-	0	-	-	0	-	-	0
22	-	-	0	-	-	0	-	-	0
23	-	-	0	75	0	3	75	0	3
24	-	-	0	75	0	3	75	0	3
25	-	-	0	-	-	0	-	-	0
26	-	-	0	-	-	0	-	-	0
27	-	-	0	-	-	0	-	-	0
28	-	-	0	-	-	0	-	-	0
29	-	-	0	-	-	0	-	-	0
30	-	-	0	48	0	1	48	0	1
Totals	0	0	0	1,117	0	45	1,117	0	45

Table 5

1998-99 BAY JUNOP OYSTER SEED RESERVATION SEASON - DECEMBER									
Date	# Sacks Grid J1	#Bar/Seed Grid J1	# Boats Grid J1	# Sacks Grid J2	#Bar/Seed Grid J2	# Boats Grid J2	# Sacks B. Junop	#Bar/Seed B. Junop	# Boats B. Junop
01	-	-	0	16	0	1	16	0	1
02	-	-	0	27	0	2	27	0	2
03	-	-	0	55	0	4	55	0	4
04	-	-	0	19	0	2	19	0	2
05	-	-	0	-	-	0	-	-	0
06	-	-	0	-	-	0	-	-	0
07	-	-	0	55	0	3	55	0	3
08	-	-	0	70	0	2	70	0	2
09	-	-	0	-	-	0	-	-	0
10	-	-	0	20	0	1	20	0	1
11	-	-	0	26	0	2	26	0	2
12	-	-	0	65	0	3	65	0	3
13	-	-	0	-	-	0	-	-	0
14	-	-	0	25	0	1	25	0	1
15	-	-	0	50	0	2	50	0	2
16	-	-	0	41	0	2	41	0	2
17	-	-	0	-	-	0	-	-	0
18	-	-	0	15	0	1	15	0	1
19	-	-	0	25	0	1	25	0	1
20	-	-	0	49	0	2	49	0	2
21	-	-	0	25	0	1	25	0	1
22	-	-	0	35	0	2	35	0	2
23	-	-	0	-	-	0	-	-	0
24	-	-	0	-	-	0	-	-	0
25	-	-	0	-	-	0	-	-	0
26	-	-	0	20	0	1	20	0	1
27	-	-	0	10	0	1	10	0	1
28	-	-	0	93	0	3	93	0	3
29	-	-	0	188	0	7	188	0	7
30	-	-	0	30	0	2	30	0	2
31	-	-	0	262	0	7	262	0	7
Totals	0	0	0	1,221	0	53	1,221	0	53

Table 6

1998-99 BAY JUNOP OYSTER SEED RESERVATION SEASON - JANUARY									
Date	# Sacks Grid J1	#Bar/Seed Grid J1	# Boats Grid J1	# Sacks Grid J2	#Bar/Seed Grid J2	# Boats Grid J2	# Sacks B. Junop	#Bar/Seed B. Junop	# Boats B. Junop
01	-	-	0	27	0	1	27	0	1
02	-	-	0	20	0	1	20	0	1
03	-	-	0	15	0	1	15	0	1
04	-	-	0	93	0	4	93	0	4
05	-	-	0	134	0	4	134	0	4
06	-	-	0	63	0	3	63	0	3
07	-	-	0	143	0	5	143	0	5
08	-	-	0	52	0	3	52	0	3
09	-	-	0	53	0	2	53	0	2
10	-	-	0	36	0	2	36	0	2
11	-	-	0	25	0	1	25	0	1
12	-	-	0	77	0	2	77	0	2
13	-	-	0	60	0	3	60	0	3
14	-	-	0	88	0	4	88	0	4
15	-	-	0	-	-	0	-	-	0
16	-	-	0	-	-	0	-	-	0
17	-	-	0	34	0	2	34	0	2
18	-	-	0	47	0	1	47	0	1
19	-	-	0	213	0	6	213	0	6
20	-	-	0	59	0	1	59	0	1
21	-	-	0	42	0	1	42	0	1
22	-	-	0	128	0	6	128	0	6
23	-	-	0	-	-	0	-	-	0
24	-	-	0	-	-	0	-	-	0
25	-	-	0	66	0	3	66	0	3
26	-	-	0	25	0	2	25	0	2
27	-	-	0	10	0	1	10	0	1
28	-	-	0	185	0	9	185	0	9
29	-	-	0	196	0	7	196	0	7
30	-	-	0	16	0	1	16	0	1
31	-	-	0	-	-	0	-	-	0
Totals	0	0	0	1,907	0	76	1,907	0	76

Table 7

1998-99 BAY JUNOP OYSTER SEED RESERVATION SEASON - FEBRUARY									
Date	# Sacks Grid J1	#Bar/Seed Grid J1	# Boats Grid J1	# Sacks Grid J2	#Bar/Seed Grid J2	# Boats Grid J2	# Sacks B. Junop	#Bar/Seed B. Junop	# Boats B. Junop
01	-	-	0	42	0	2	42	0	2
02	-	-	0	68	0	2	68	0	2
03	-	-	0	3	0	1	3	0	1
04	-	-	0	45	0	2	45	0	2
05	-	-	0	65	0	4	65	0	4
06	-	-	0	-	-	0	-	-	0
07	-	-	0	-	-	0	-	-	0
08	-	-	0	-	-	0	-	-	0
09	-	-	0	-	-	0	-	-	0
10	-	-	0	14	0	1	14	0	1
11	-	-	0	-	-	0	-	-	0
12	-	-	0	-	-	0	-	-	0
13	-	-	0	-	-	0	-	-	0
14	-	-	0	-	-	0	-	-	0
15	-	-	0	-	-	0	-	-	0
16	-	-	0	-	-	0	-	-	0
17	-	-	0	12	0	1	12	0	1
18	-	-	0	14	0	1	14	0	1
19	-	-	0	-	-	0	-	-	0
20	-	-	0	-	-	0	-	-	0
21	-	-	0	-	-	0	-	-	0
22	-	-	0	25	0	1	25	0	1
23	-	-	0	29	0	2	29	0	2
24	-	-	0	19	0	2	19	0	2
25	-	-	0	35	0	2	35	0	2
26	-	-	0	26	0	1	26	0	1
27	-	-	0	-	-	0	-	-	0
28	-	-	0	-	-	0	-	-	0
Totals	0	0	0	397	0	22	397	0	22

Dugas, Ronald

From: Juneau, Pete
Sent: Wednesday, April 07, 1999 6:41 AM
To: Dugas, Ronald
Subject: RE: 98/99 OYSTER PRODUCTION REPORT / PUBLIC GROUNDS

Ron,

No harvest observed from the Vermilion Bay oyster seed ground during the past year.

Pete

From: Dugas, Ronald
Sent: Wednesday, April 07, 1999 7:28 AM
To: Burdon, John; Luquet, Clarence; Pausina, Randy; Juneau, Pete
Cc: Boudreaux, Claude; Bourgeois, Martin; Carver, Dudley; Harbison, Mike
Subject: 98/99 OYSTER PRODUCTION REPORT / PUBLIC GROUNDS

The 98/99 Oyster Season is over in some of the areas, and it is time to summerize what happen and the develope the monthly production figures for the season. thanks!!

OYSTER STATUS IN CALCASIEU LAKE

SEASONS	STOCK ASSESSMENT		ESTIMATED SACKS HARVESTED
	MARKETABLE	TOTAL	
1963	-	-	210,160
1967-74	-	-	NO COMMERCIAL LANDINGS
1975-76	142,726	441,183	40,000
1976-77	694,420	869,475	100,000
1977-78	483,673	621,885	141,976
1978-79	-	-	75,000
1979-80	676,333	979,613	125,000
1980-81	355,664	705,117	150,000
1981-82	608,110	988,575	-
1982-83	-	-	50,000-75,000
1983-84	-	-	150,000
1984-85	125,407	644,788	-
1985-86	315,160	537,760	27,400
1986-87	589,940	1,217,959	200,000
1987-88	796,950	2,703,647	125,000
1988-89	463,331	1,036,580	50,000
1989-90	172,046	640,892	40,000
1990-91	408,961	1,268,962	50,000
1991-92	1,048,882	1,731,367	31,383
1992-93	749,915	1,612,736	27,328
1993-94	748,281	1,238,783	12,818
1994-95	756,525	1,246,480	6,134
1995-96	956,926	1,298,379	29,082
1996-97	618,767	1,083,866	43,441
1997-98	950,979	1,706,510	80,735
1998-99	702,371	1,160,115	39,202[1]
1999-2000			

[1] THE 1999 PORTION OF THE LANDINGS WAS DERIVED FROM PRELIMINARY TRIP TICKET DATA.

1998-99 CALCASIEU LAKE OYSTER SEASON DATA

MONTH	CAL. LAKE		WEST COVE		OYSTER TAG SALES	SACKS LANDED	$/SACK (AVE.)
	NO. DAYS OPEN	NO. DAYS CLOSED	NO. DAYS OPEN	NO. DAYS CLOSED			
OCTOBER	16	0	16	0	12,000	5,061	----
NOVEMBER	23	7	15	15	7,020	8,635	14.50
DECEMBER	16	15	9	22	10,000	7,649	----
JANUARY	16	15	3	28	4,000	3,678	----
FEBRUARY	17	11	11	17	2,000	4,778	----
MARCH	27	4	13	18	15,000	7,352	----
APRIL	20	10	10	20	0	2,409	----
TOTALS	**135**	**62**	**77**	**120**	**50,020**	**39,202[1]**	

[1] LDWF STARTED USING TRIP TICKETS INSTEAD OF DEALER IN JANUARY 1999; LANDINGS FROM JAN - APRIL ARE FROM TRIP TICKET PRELIMINARY REPORTS.

CALCASIEU LAKE OYSTER SEASONS

SEASON	SEASON							EXTENDED SEASON							TOTAL SEASON DAYS
	DATES			HEALTH CLOSURES				DATES			HEALTH CLOSURES				
				EASTSIDE		WESTCOVE					EASTSIDE		WESTCOVE		
	OPEN DATE	CLOSED DATE	TOTAL DAYS	DAYS OPEN	DAYS CLOSED	DAYS OPEN	DAYS CLOSED	OPEN DATE	CLOSED DATE	TOTAL DAYS	DAYS OPEN	DAYS CLOSED	DAYS OPEN	DAYS CLOSED	
1989-1990	11-15	3-15	121	79	42	79	42	3-16	4-30	46	40	6	40	6	165
1990-1991	11-15	3-1	147	95	52	95	52	3-30	4-20	34	20	0	20	0	181
1991-1992	10-15	3-1	139	69	70	69	70	3-2	4-30	60	45	15	45	15	199
1992-1993[1]	10-15	3-1	138	123	15	76	62	3-8	4-3	27	14	13	0	27	165
1993-1994	11-1	3-1	121	94	27	61	60	3-2	4-30	60	52	8	23	7	181
1994-1995[2]	11-1	3-1	121	69	52	9	112	3-2	4-30	60	21	39	0	60	181
1995-1996	10-16	3-1	138	125	13	80	58	3-2	3-31	30	30	0	30	0	-
								4-11	4-30	20	20	0	5	15	188
1996-1997	10-16	5-1	197	149	48	83	114	-	-	-	-	-	-	-	197
1997-1998	10-16	4-30	197	139	58	101	96	-	-	-	-	-	-	-	197
1998-1999	10-16	4-30	197	135	62	77	120	-	-	-	-	-	-	-	197
1999-2000															

[1] STARTING WITH 92-93 SEASON CALCASIEU LAKE WAS SPLIT INTO TWO UNITS; EASTSIDE (WITH RIVER STAGE CLOSURE @ 12 ft.) AND WESTCOVE (WITH RIVER STAGE CLOSURE @ 7 ft.).
[2] DHH CLOSED EASTSIDE (FROM 11/1-12/10/94) AND WESTCOVE (FROM 11/1-1/28/95) WITH A PRECAUTIONARY (POSSIBLE LEAD CONTAMINATION) CLOSURE.

CALCASIEU LAKE OYSTER SEASON

OCTOBER 1998

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
15		X		X	3.56	0.06	0.00
16	X		X		4.21	0.10	0.46
17	X		X		-	-	0.01
18	X		X		-	-	0.08
19	X		X		-	-	0.02
20	X		X		-	-	0.00
21	X		X		-	-	0.00
22	X		X		-	-	0.00
23	X		X		3.91	0.19	0.00
24	X		X		-	-	0.00
25	X		X		-	-	0.00
26	X		X		2.69	1.98	0.00
27	X		X		-	1.98	0.00
28	X		X		-	1.98	0.00
29	X		X		2.54	1.98	0.00
30	X		X		2.50	1.98	0.00
31	X		X		2.46	1.98	0.00
TOTALS	16	0	16	0		1.92	0.57

CALCASIEU LAKE OYSTER SEASON

NOVEMBER 1998

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X		X		2.43	1.98	1.30
2	X		X		2.81	2.46	0.01
3	X		X		3.09	-	0.00
4	X		X		3.62	2.98	0.00
5	X		X		3.77	2.98	0.00
6	X		X		3.68	2.98	0.00
7	X		X		-	-	0.00
8	X		X		-	-	T
9	X		X		2.52	2.98	T
10	X		X		2.53	3.04	0.60
11	X		X		2.69	-	0.00
12	X		X		2.51	3.29	0.02
13	X		X		2.50	3.36	0.28
14	X		X		-	-	0.63
15	X		X		-	-	0.07
16	X			X	11.14	4.95	0.00
17	X			X	11.28	5.05	0.00
18	X			X	11.52	0.06	0.00
19	X			X	-	0.06	0.00
20	X			X	12.28	0.06	0.00
21		X		X	-	-	0.00
22		X		X	-	-	0.01
23		X		X	14.90	0.29	0.00
24		X		X	14.30	0.29	0.00
25		X		X	13.28	0.29	0.00
26		X		X	12.23	-	0.00
27		X		X	10.95	-	0.00
28	X			X	9.61	-	0.00
29	X			X	7.90	-	0.00
30	X			X	6.29	0.31	T
TOTALS	23	7	15	15		3.28	2.92

CALCASIEU LAKE OYSTER SEASON

DECEMBER 1998

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X			X	5.52	0.40	0.00
2	X			X	5.01	0.40	0.01
3	X		X		4.72	0.41	0.00
4	X		X		4.56	0.41	0.00
5[1]	X		X		-	-	0.00
6[1]	X		X		-	-	0.01
7[1,2]	X		X		4.00	0.44	T
8[1,2]	X		X		4.00	0.67	0.20
9[1,2]	X		X		4.50	0.68	0.00
10[1,2]	X		X		3.30	0.68	0.98
11[3]	X		X		6.84	-	0.90
12[3]		X		X	11.04	-	0.05
13[3]		X		X	13.13	-	0.00
14[3]		X		X	13.89	2.99	0.00
15[3]		X		X	15.17	3.00	0.00
16[3]		X		X	17.11	3.00	0.00
17[3]		X		X	17.07	3.01	0.00
18[3]		X		X	17.08	3.01	T
19[4]		X		X	-	-	0.03
20[3]		X		X	17.04	-	0.00
21[3]		X		X	17.01	-	0.00
22		X		X	13.90	3.36	0.03
23		X		X	12.69	3.40	0.17
24		X		X	11.57	-	0.02
25		X		X	10.37	-	T
26	X			X	-	-	0.00
27	X			X	8.41	-	0.00
28	X			X	8.48	3.99	1.22
29	X			X	12.44	4.36	0.00
30	X			X	13.59	4.36	0.00
31		X		X	13.06	4.36	0.00
TOTALS	16	15	9	22		3.96	3.62

1 - GAUGE HUNG OR BROKEN
2 - HAND GAUGED BY DHH
3 - DATA FROM WEBSITE; VOICE RECORDER ON PHONE NOT SYNCHRONIZED WITH GAUGE
4 - NOTHING ON WEBSITE FOR THIS DAY

CALCASIEU LAKE OYSTER SEASON

JANUARY 1999

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1		X		X	12.10	4.36	0.01
2		X		X	10.95	-	1.69
3		X		X	13.07	-	0.00
4		X		X	14.69	4.80	0.00
5		X		X	14.44	0.05	0.00
6		X		X	14.02	0.05	0.77
7		X		X	14.27	3.32	1.99
8		X		X	15.73	4.14	T
9		X		X	15.49	4.14	0.00
10		X		X	14.66	4.14	0.00
11		X		X	14.14	4.14	0.00
12		X		X	13.55	4.14	0.00
13		X		X	12.81	4.14	0.00
14		X		X	12.20	4.14	0.29
15		X		X	11.66	4.14	0.00
16	X			X	11.18	4.14	0.00
17	X			X	10.93	4.14	0.00
18	X			X	10.78	4.14	0.00
19	X			X	10.57	4.14	0.00
20	X			X	9.98	4.14	0.00
21	X			X	8.63	4.14	0.08
22	X			X	7.56	4.52	0.12
23	X			X	7.24	-	0.00
24	X			X	7.57	-	0.00
25	X			X	7.95	5.54	0.00
26	X			X	7.64	5.54	0.00
27	X			X	6.95	4.54	0.00
28	X			X	6.74	4.55	0.02
29	X		X		6.68	4.71	0.43
30	X		X		7.07	5.22	0.03
31	X		X		11.46	5.22	0.00
TOTALS	16	15	3	28		5.61	5.43

CALCASIEU LAKE OYSTER SEASON

FEBRUARY 1999

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X			X	13.69	5.22	0.00
2		X		X	17.25	5.22	0.00
3		X		X	17.78	5.22	T
4		X		X	17.78	5.23	0.04
5		X		X	16.75	0.05	T
6		X		X	15.31	-	T
7		X		X	14.85	-	0.01
8		X		X	14.29	0.06	0.00
9		X		X	13.37	0.06	0.00
10		X		X	12.37	0.06	T
11		X		X	11.01	0.06	T
12		X		X	9.39	0.17	0.07
13	X			X	7.74	-	0.00
14	X			X	6.85	-	0.00
15	X			X	6.32	-	0.00
16	X		X		5.92	-	0.00
17	X		X		5.37	1.03	0.78
18	X		X		7.15	1.16	0.00
19	X		X		8.04	1.16	0.00
20	X			X	6.90	-	0.19
21	X			X	6.24	-	0.00
22	X		X		5.93	1.25	0.00
23	X		X		5.67	1.25	0.00
24	X		X		5.53	1.25	0.00
25	X		X		5.31	1.25	0.00
26	X		X		5.22	1.25	T
27	X		X		4.99	-	0.23
28	X		X		5.88	2.90	0.00
TOTALS	17	11	11	17		1.21	1.32

CALCASIEU LAKE OYSTER SEASON

MARCH 1999

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X		X		6.75	2.90	0.00
2	X		X		5.60	2.90	0.51
3	X		X		5.21	3.01	0.00
4	X		X		4.93	3.01	0.00
5	X		X		4.94	0.05	T
6	X		X		5.22	0.05	T
7	X		X		5.26	0.05	0.00
8	X		X		5.22	0.05	0.14
9	X		X		5.93	1.02	0.00
10	X		X		6.14	1.02	0.00
11	X		X		6.04	1.02	0.53
12	X		X		5.64	1.59	0.16
13	X		X		8.79	-	1.68
14	X			X	14.01	-	0.00
15	X			X	15.25	-	0.00
16		X		X	15.17	-	0.00
17		X		X	14.45	-	0.00
18		X		X	13.54	5.22	0.00
19		X		X	11.84	5.22	0.00
20	X			X	9.81	5.22	T
21	X			X	8.99	5.22	0.00
22	X			X	8.92	5.22	0.00
23	X			X	9.19	5.22	0.00
24	X			X	9.37	-	0.00
25	X			X	8.74	5.25	0.00
26	X			X	7.30	5.44	0.00
27	X			X	6.44	-	0.00
28	X			X	7.91	-	0.22
29	X			X	8.08	7.20	0.40
30	X			X	7.02	7.38	0.08
31	X			X	7.98	7.38	0.00
TOTALS	27	4	13	18		7.44	3.72

CALCASIEU LAKE OYSTER SEASON

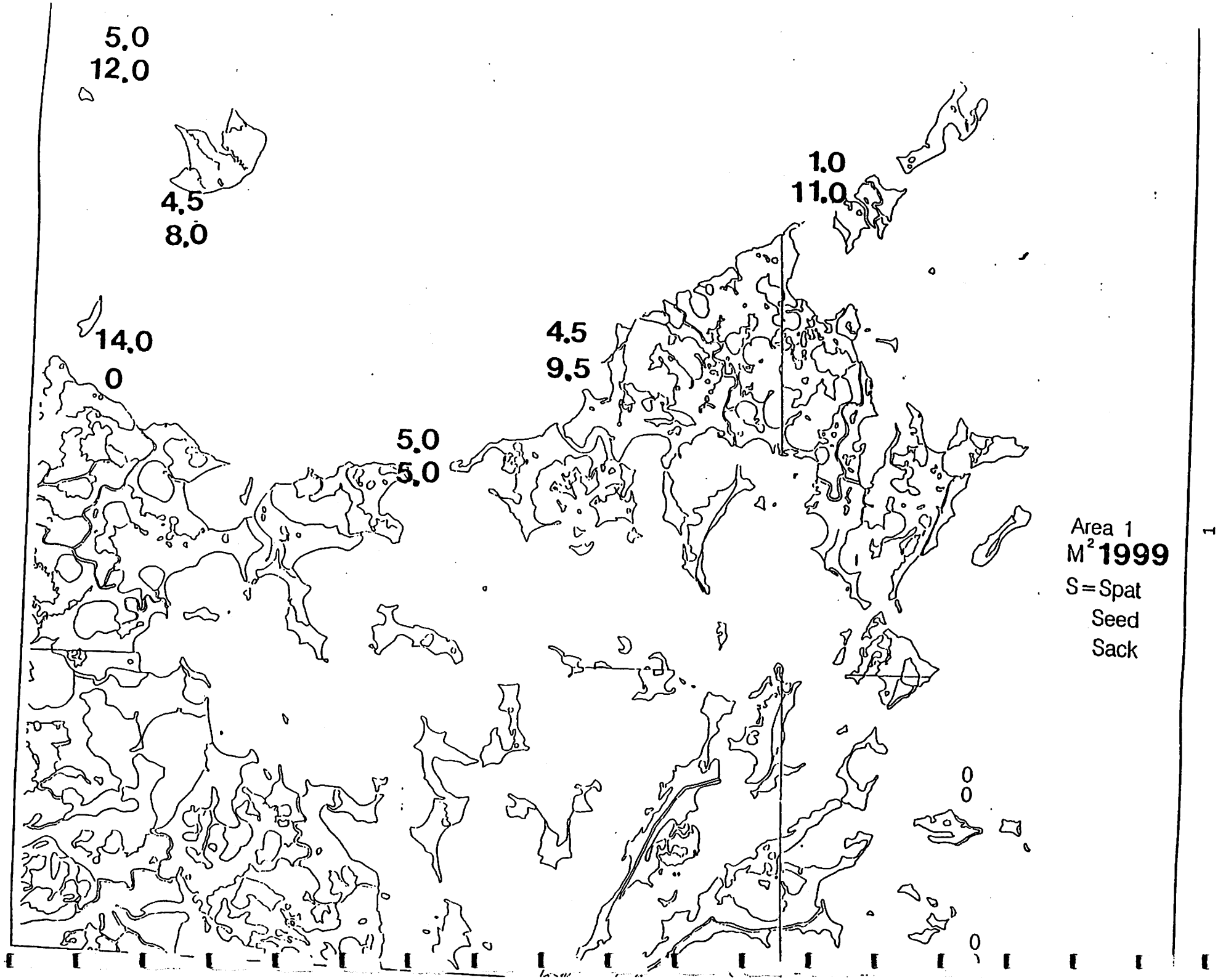
APRIL 1999

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X			X	9.76	7.38	0.00
2	X			X	10.20	-	0.00
3	X			X	9.59	-	0.01
4	X			X	8.63	-	0.01
5	X			X	12.61	0.5	0.01
6	X			X	15.27	0.10	0.02
7		X		X	19.29	0.10	0.00
8		X		X	19.38	0.10	0.00
9		X		X	18.39	0.10	0.00
10		X		X	17.04	0.10	0.00
11		X		X	17.13	0.10	0.00
12		X		X	17.38	0.10	0.00
13		X		X	16.19	0.10	0.00
14		X		X	14.75	0.10	0.00
15		X		X	13.23	0.15	0.00
16		X		X	11.72	0.15	0.00
17	X			X	8.91	0.15	0.00
18	X			X	6.79	0.15	0.00
19	X			X	6.5	0.15	0.00
20	X			X	5.94	0.15	0.00
21	X		X		5.61	0.15	0.00
22	X		X		5.35	0.15	0.00
23	X		X		5.18	0.15	0.00
24	X		X		4.16	0.15	0.00
25	X		X		4.06	0.15	0.35
26	X		X		4.75	0.15	0.00
27	X		X		4.71	0.45	0.00
28	X		X		4.62	0.45	0.00
29	X		X		3.67	0.45	0.00
30	X		X		4.60	0.45	0.00
TOTALS	20	10	10	20		0.40	0.40

JULY 1999 M^2 SAMPLES

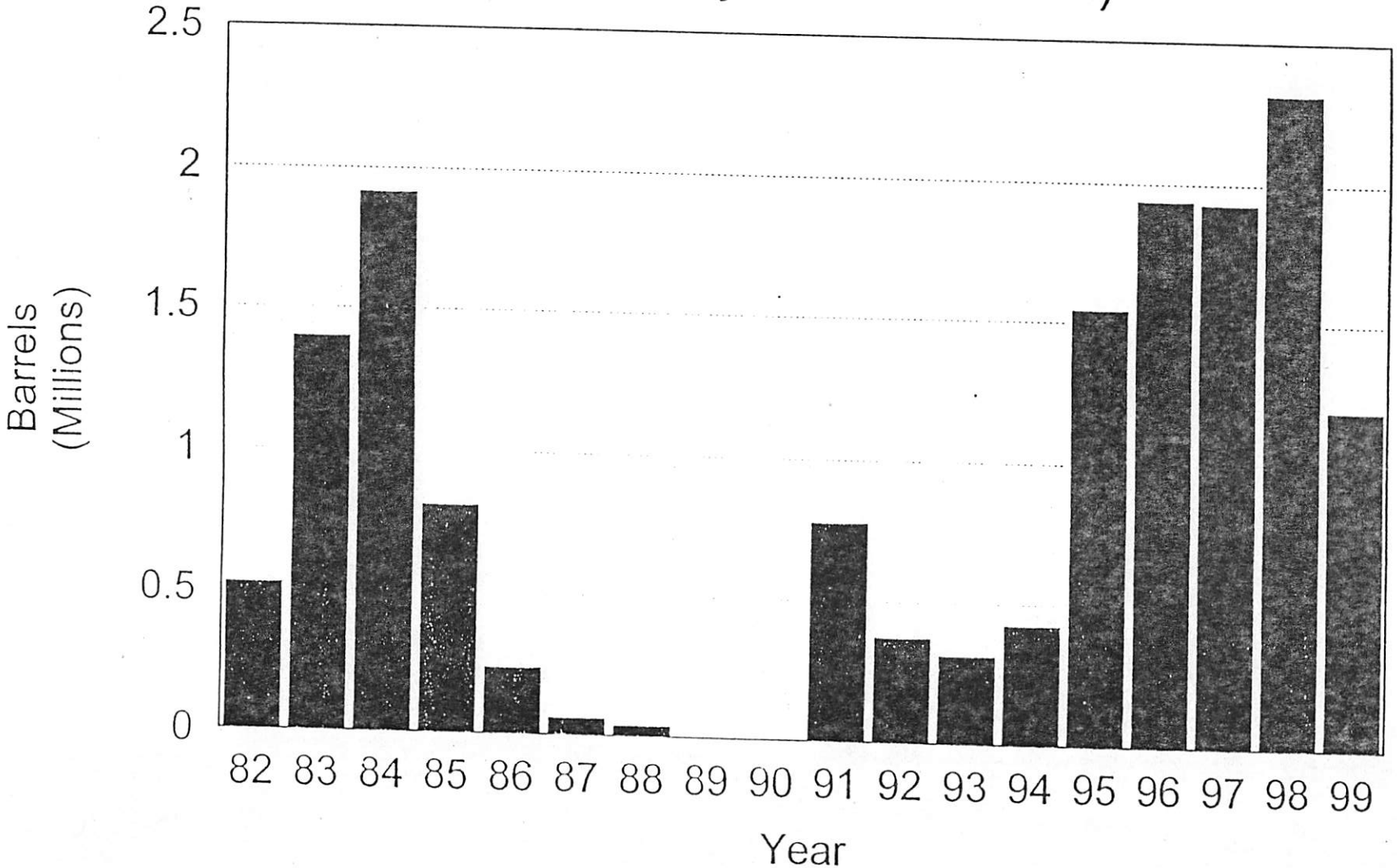
AND

STOCK ASSESSMENT


5.0
12.0
4.5
8.0
14.0
0
5.0
5.0
4.5
9.5
1.0
11.0
0
0
0
Area 1
M² 1999
S = Spat
Seed
Sack

Oysters Available on the Public Grounds in Coastal Study Area I

(Seed and Sack Oysters Combined)



State of Louisiana

James H. Jenkins, Jr.
Secretary

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

M.J. "Mike" Foster
Governor

July 13, 1999

M E M O R A N D U M

TO: Ron Dugas, Oyster Program Manager

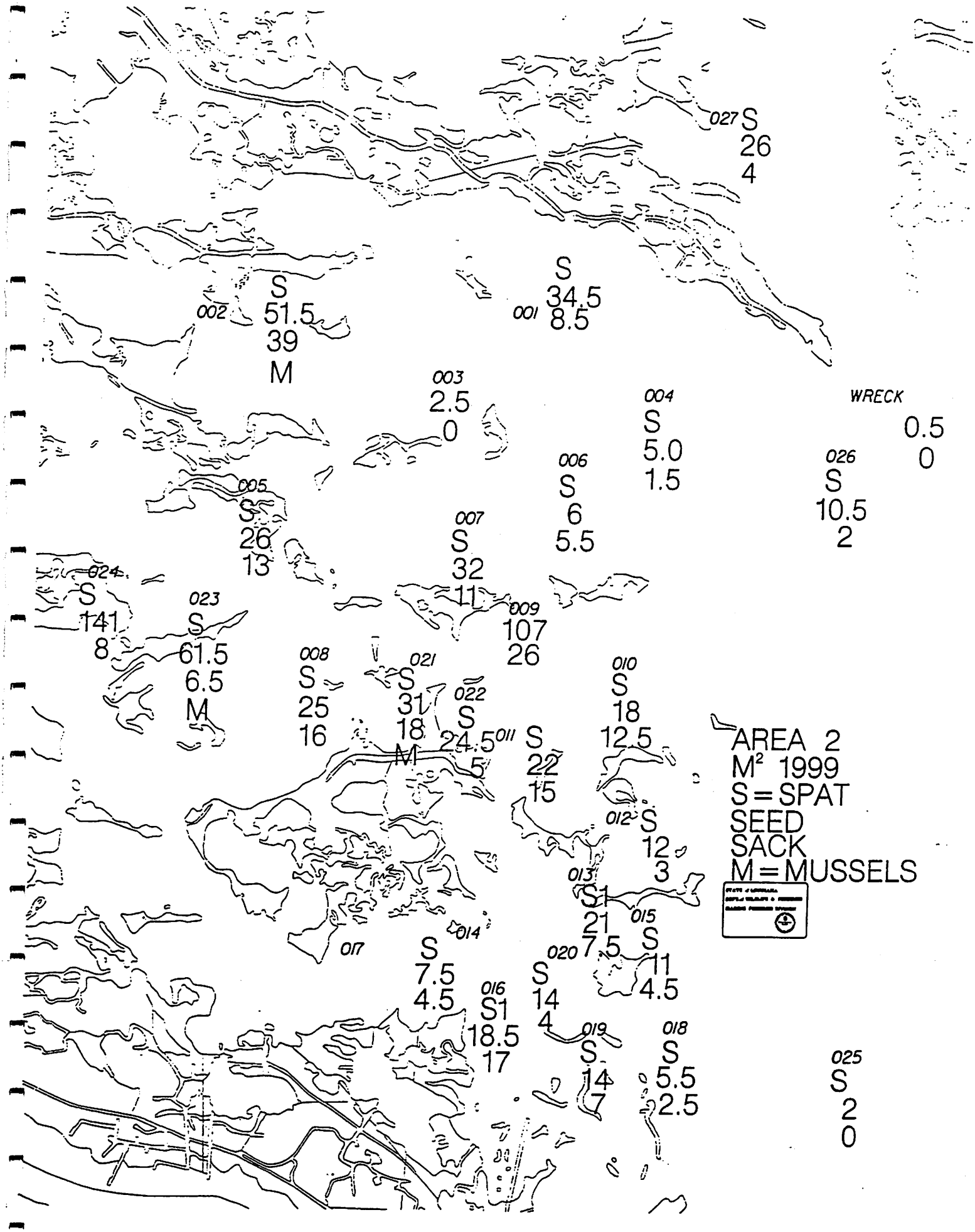
FROM: Clarence Luquet, Biologist Supervisor
Coastal Study Area II

SUBJECT: CSA II Meter Square Samples *1999*

Personnel from Coastal Study Area II and the Marine Lab completed the 1999 meter square sampling project on June 23,1999. A total of 28 stations were sampled from Bay Gardene and Northern Black Bay to Breton Sound. The stock assessment for seed oysters was up by 166,670 barrels, and sack oyster availability was up by 217,076 barrels. While the availability increased from last year and we are still above the long term averages, we are about half the availability from the peak years of 94,95,and 96. We found 1,691,020 barrels of seed oysters and 994,754 barrels of sack oysters. Ample seed oysters were found at most reef west of Stone Island, and were more abundant at West Stone Island, and Bay Gardene. Sack oysters appear to be more numerous at: Bayou Lost, West Stone Island, Bay Crabe, and upper California Bay.

Mussels were encountered at all stations except 28, the wreck, and 25, Battledore Reef. This may be misleading, since only stations 2, and 23 in Bay Gardene had a severe infestation. Counts were made at each station (see attachment) and reported herein.

Assessment by station are presented in tabular form (see table). A map of spat, seed, and sack oysters is included.

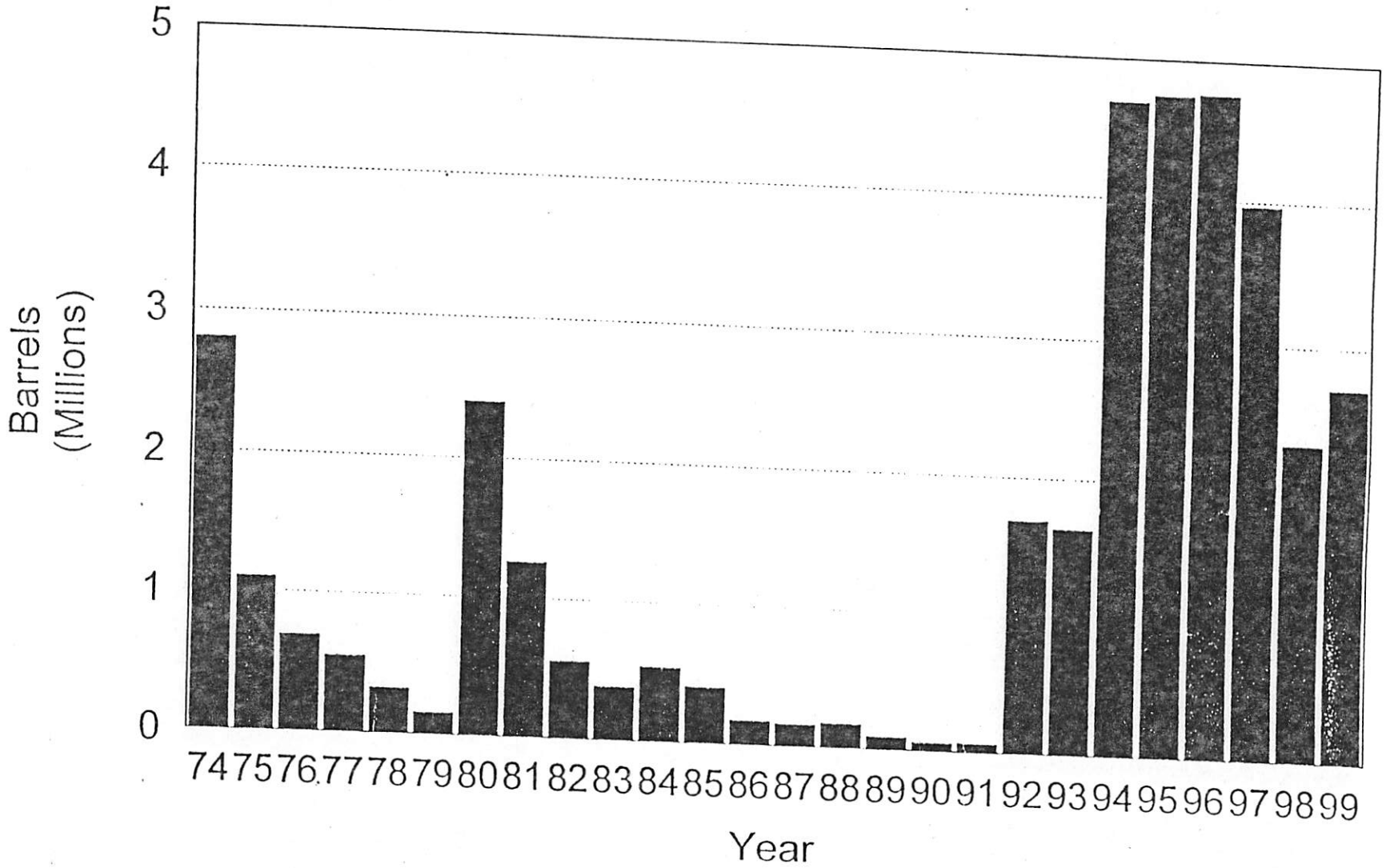

027 S 26 4
S 34.5 8.5
001
002 S 51.5 39 M
003 2.5 0
004 S 5.0 1.5
WRECK 0.5 0
006 S 6 5.5
026 S 10.5 2
005 S 26 13
007 S 32 11
009 107 26
024 S 141 8
023 S 61.5 6.5 M
008 S 25 16
021 S 31 18 M
022 S 24.5 5
011 S 22 15
010 S 18 12.5
012 S 12 3
013 S1 21 7.5
015 S 11 4.5
014
017 S 7.5 4.5
016 S1 18.5 17
020 S 14 4
019 S 14 7
018 S 5.5 2.5
025 S 2 0
AREA 2
M² 1999
S = SPAT
SEED
SACK
M = MUSSELS

1999 Meter Square Samples

Station	Grids	Acres	Sq Meters	Seed	Sack	Bbls Seed	Bbls Sack
1	1,2,3,4,8,9, 10	506	2,047,782	34.5	8.5	98,123	48,350
2	7,6,5,11, 12	59	283,773	51.5	39.0	20,298	30,742
3	13,14,15	896	3,626,112	2.5	0.0	12,591	0
5	17,18,25,24	118	477,546	26.0	13.0	17,245	17,245
6	20,21,16	716	2,897,652	6.0	5.5	24,147	44,270
7	19,26,27	301	1,218,147	32.0	11.0	54,140	37,221
8	31,36,32	501	2,027,547	25.0	16.0	70,401	90,113
9	33,34,35	461	1,865,667	107.0	25.5	277,259	132,151
10	40,44	145	586,815	18.0	12.5	14,670	20,376
11	42,43,46	339	1,371,933	21.5	14.5	40,967	55,258
12	47	425	1,719,975	12.0	3.0	28,666	14,333
13	50,51	109	441,123	21.0	7.5	12,866	9,190
14	48,49	7	28,329	7.5	4.5	295	354
16	62,63,64	174	704,178	18.5	17.0	18,093	33,253
17	Private Lease		Recalculate			0	0
19	65,66,67,68	937	3,792,039	14.0	7.0	73,734	73,734
20	56,58	293	1,185,771	14.0	4.0	23,057	13,175
21	37,38,41	659	2,666,973	31.0	18.0	114,828	133,349
22	39	122	493,734	24.5	5.0	16,801	6,857
23	30,23	28	113,316	61.5	6.5	9,679	2,046
24	22,29	69	279,243	141.0	8.0	54,685	6,205
4,26	Horseshoe	315	1,274,805	15.5	1.5	27,444	5,312
15	Outside	127	513,969	11.0	4.5	7,852	6,425
18	Outside	1,528	3,164,754	5.5	2.5	24,175	21,977
25	Battledore	1419	5,742,693	2.0	0.0	15,952	0
27	L Fortuna	4288	17,353.536	26.0	4.0	626,655	192,817
28	Wreck	2276	9,210,972	0.5	0.0	6,397	0
Subtotal						1,691,020	994,754
Total						2,685,774	

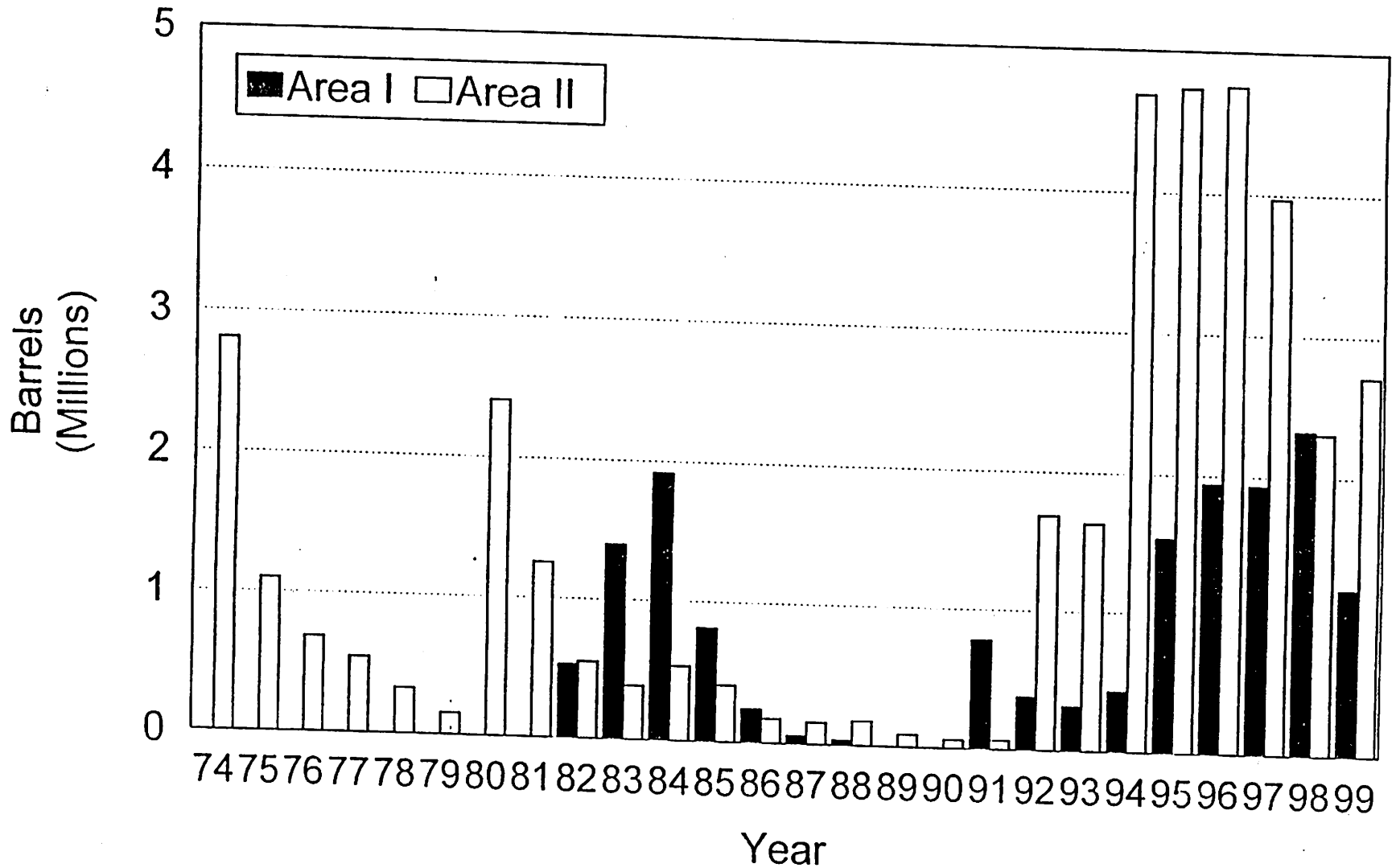
Oysters Available on the Public Grounds in Coastal Study Area II

(Seed and Sack Oysters Combined)



Oysters Available on the Public Grounds East of the Mississippi River

(Seed and Sack Oysters Combined)



State of Louisiana

James H. Jenkins, Jr.
Secretary

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

M.J. "Mike" Foster, Jr.
Governor

Date: June 14, 1999

To: Ron Dugas, Molluscan Programs Manager, Marine Fisheries

From: Randall B. Pausina, Acting Biologist Supervisor, CSA III RBP 6525

Subject: 1998-99 Hackberry Bay Square Meter Report

The yearly square meter samples were taken on June 3rd, 1999. One sample and two replicates per station were taken at three stations (upper, mid, and lower). Fig. 1 shows the size ranges of oysters sampled at each of the three stations in 1999. Oysters are classified as: < work group 5 (spat), work groups 5 to 14 (seed), and > work group 14 (sack). Work groups are broken into 5 mm groups. Fig. 2 shows mid and lower stations data for 1999 compared to recent years data. Fig. 3 breaks down the catch into their classifications mentioned above. The upper station is omitted in Figs. 2 and 3 because it is part of a cultch study started in 1994 and would not provide comparable data. The data from the square meter samples for 1999 extrapolates out to 2,396 barrels of seed oysters and 839 sacks of marketable oysters.

Dredge samples for 1999 revealed that oysters are in good health in Hackberry Bay. The data revealed 90% or better live oysters for March, April, and May at each size classification.

The data collected from Hackberry Bay over the last four years supports the oyster fisher's feeling that a new supply of cultch material is needed. With the Davis Pond fresh water diversion project coming on line soon, a shell plant could be placed over the 450 acre 1973 shell plant site or on a mitigation reef to the southeast. These sites provide water bottom and water salinity conducive to oyster reproduction and growth which will keep the Hackberry Bay Seed Reservation productive into the 21st century.

Table 1: Squared meter samples data extrapolated to barrels of seed oysters and sacks of marketable oysters.

Square meter samples Year	barrels of seed oyster	sacks of marketable oysters
1996	3,129.6	645.3
1997	4,307.2	1,322.8
1998	4,758.9	1,677.7
1999	2,395.6	838.9
Average of 1996-1998	4,065.2	1,215.3

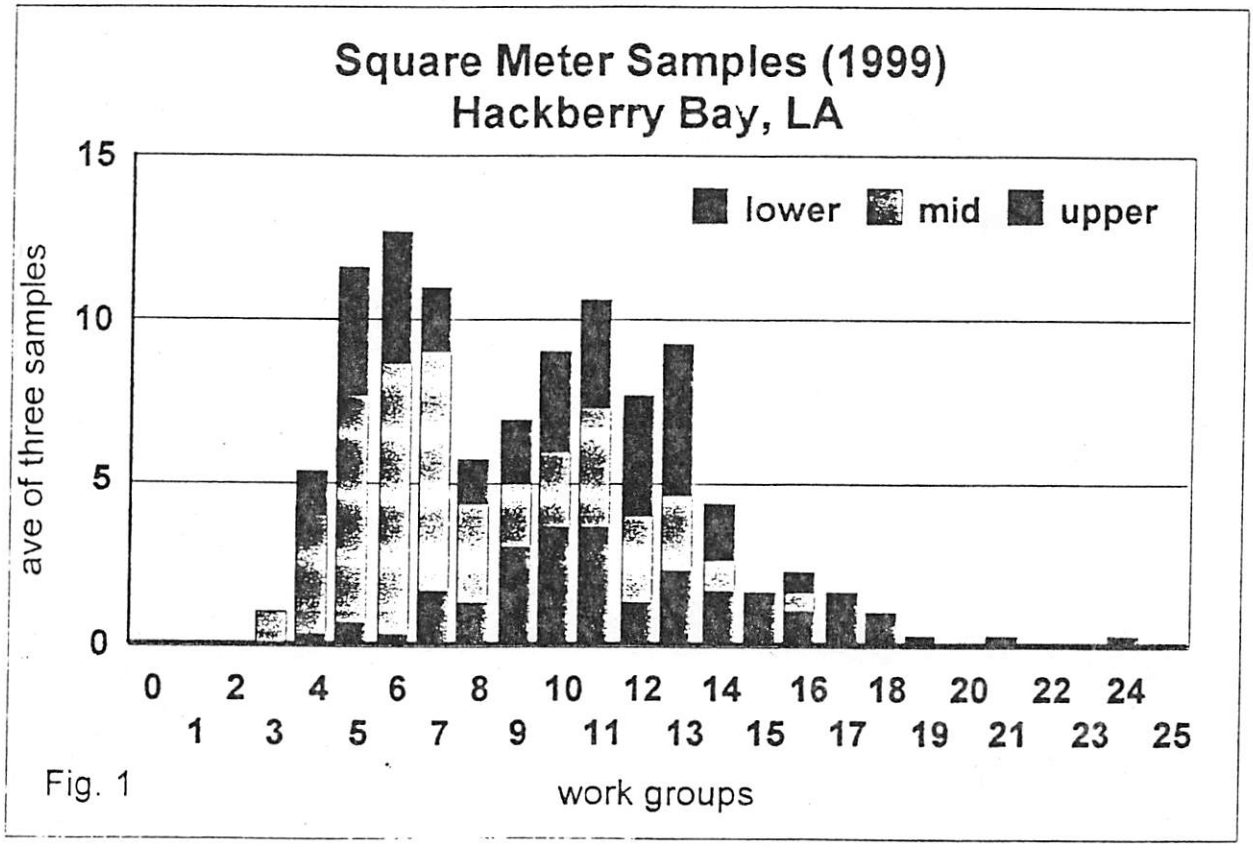


Fig. 1

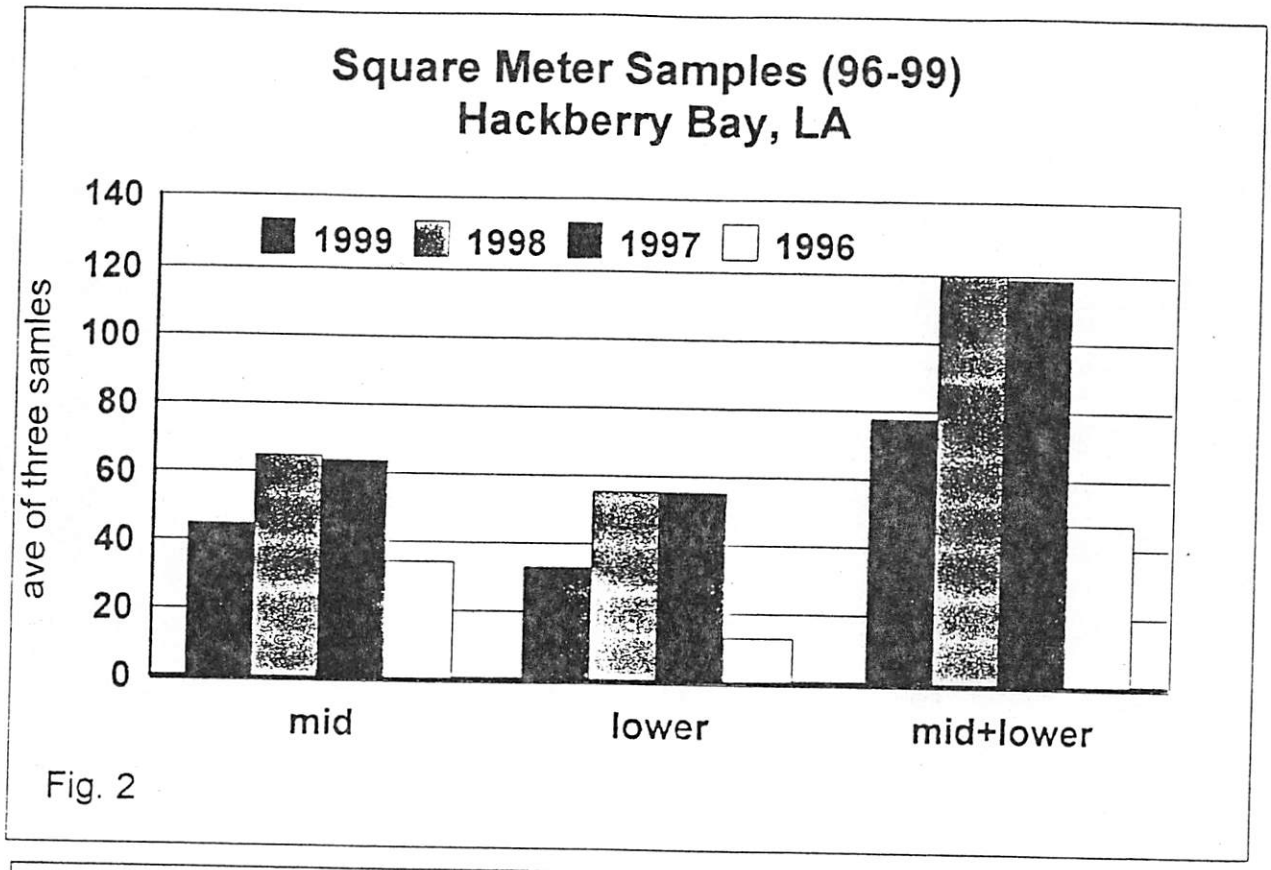

Square Meter Samples (96-99)
Hackberry Bay, LA
1999
1998
1997
1996
ave of three samles
140
120
100
80
60
40
20
0
mid
lower
mid+lower

Fig. 2

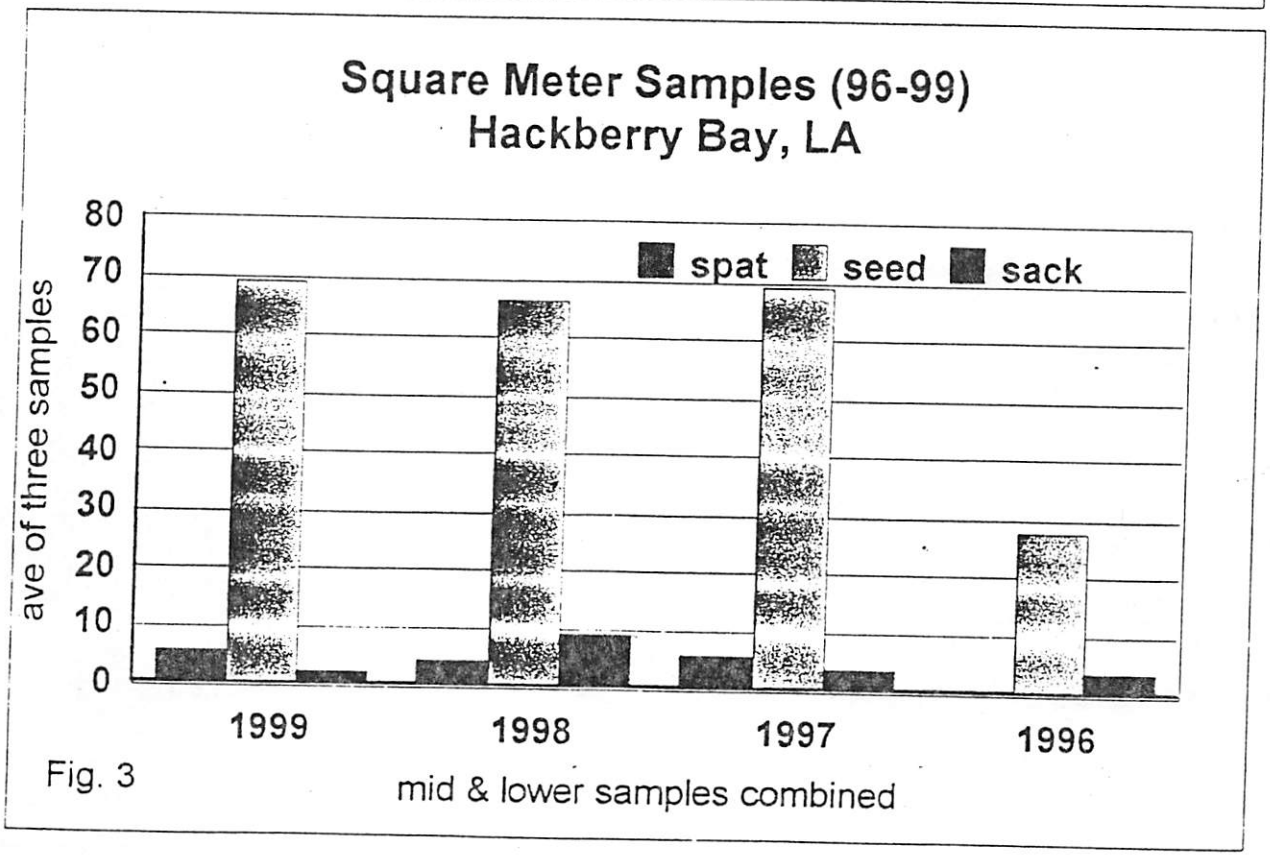

Square Meter Samples (96-99)
Hackberry Bay, LA
spat
seed
sack
ave of three samples
80
70
60
50
40
30
20
10
0
1999
1998
1997
1996
mid & lower samples combined

Fig. 3

State of Louisiana

James H. Jenkins, Jr.
Secretary

Department of Wildlife & Fisheries
Post Office Box 189
Bourg, Louisiana 70343
(504)594-4130

M.J. "Mike" Foster, Jr.
Governor

June 25, 1999

Memorandum

To: Ron Dugas, Programs Manager

From: Martin Bourgeois and Paul Meier

Subject: CSA-V Meter Square Oyster Samples/1999 Stock Assessments

With assistance from Coastal Study Area III personnel, all meter square field sampling associated with the 1999 oyster stock assessment of public reefs in Coastal Study Area V was completed on June 9-10, 1999. A total of 14 stations, 9 in Sister Lake (including the 1994 and 1995 shell plants) and 5 in Bay Junop were sampled with one additional replicate made at each station.

The 1999 stock assessment conducted in Sister Lake indicates an overall increase in oyster stock size from 1998 levels (see tables and figures) with totals of 452,991 barrels of seed oysters and 301,321 barrels of sack oysters available for harvest. Stock levels of legal market size "sack" oysters have declined slightly while stock levels of seed oysters have significantly increased. With the exception of the Camp 1995 shell plant and to a lesser extent the North 1995 shell plant, all shell plants as well as reefs within Sister Lake experienced increases in stock size. Results from the current Sister Lake assessment of shell plant stocks (combined acreage) indicate 254,317 barrels of seed and 170,367 barrels of sack oysters available for harvest, representing a 28% increase in seed oyster and 33% decrease in sack oyster availability from 1998 shell plant stock levels. Likewise, oyster stock levels over natural reefs within Sister Lake indicate 198,674 barrels of seed and 130,954 barrels of sack oysters available for harvest, increases of 47% and 56%, respectively from 1998 stock levels. The current ratio of seed to sack oyster availability within Sister Lake (1.5-1.0), although largely erratic between years, compares poorly with values of 1.0-1.0 and 0.9-1.0 calculated in the 1997 and 1998 assessments.

While stock size in Sister Lake has increased from 1998 levels, stock size has decreased in Bay Junop over the same period. Results from the 1999 Bay Junop stock assessment indicate 63,010 barrels of seed and 28,764 barrels of sack oysters available for harvest; a respective increase and decrease of 17% and 68% from 1998 stock levels. The current ratio of seed to sack oyster availability found within Bay Junop (2.2-1.0) also compares poorly with identical levels of 0.6-1.0 calculated in the 1997 and 1998 assessments.

The total number of hooked mussels were recorded from all samples and replicates. Overall, biofouling

rates of hooked mussels in Sister Lake increased slightly from rates measured in the 1998 assessment while fouling rates in Bay Junop declined from 1998 levels. The frequency distribution of hooked mussels varied significantly between stations with generally higher fouling rates associated with increased salinity. Highest fouling rates were observed in the South 1994 and Camp 1995 shell plants, as well as mid Bay Junop at Hell Hole Bayou, with the largest proportional increase noted in samples collected in Bay Junop at Buckskin Bayou. Increased fouling rates were observed at stations with greater oyster densities and highest fouling rates were associated with clustered oysters.

Average monthly May and June salinity in Sister Lake increased significantly from levels recorded in previous years, however water temperatures have remained at or below seasonal norms during both months. Likewise, average salinity in Bay Junop during May and June also increased from previous years while water temperatures displayed trends similar to those observed in Sister Lake.

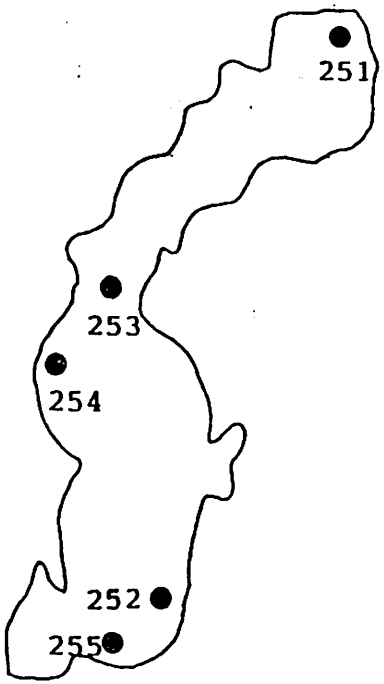
Approximately 30-40 live oysters from north and south Sister Lake and Bay Junop were collected by divers and forwarded to Dr. Tom Soniat at Nicholls State University for "dermo" analysis. Results of the analysis indicate significant increases from recent years in the percentage of infection observed in the samples.

Station	Salinity	Temperature	Percent Infection	Weighed Incidence
Grand Pass (North Sister Lake)	10.2 ppt	28.7°C	90%	1.00
Old Camp (South Sister Lake)	19.0 ppt	29.1°C	100%	1.10
Buckskin Bayou (North Bay Junop)	9.3 ppt	27.7°C	20%	0.13
Bayou DeWest (South Bay Junop)	14.7 ppt	28.7°C	70%	1.40

Tables and figures depicting the 1999 Sister Lake and Bay Junop stock assessments are presented as follows.

cc: Karen Foote
Claude Boudreaux

COASTAL STUDY AREA 5 METER SQUARE SAMPLE STATIONS

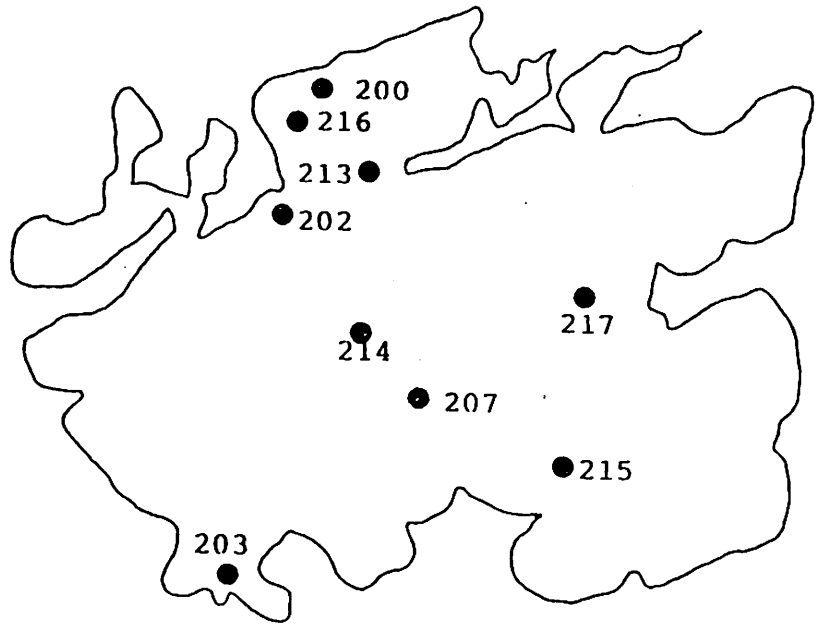


BAY JUNOP

Station Location

251 = Buckskin Bayou
252 = Rat Bayou
253 = Mid Bay Junop
254 = Hell Hole Bayou
255 = Bayou de West

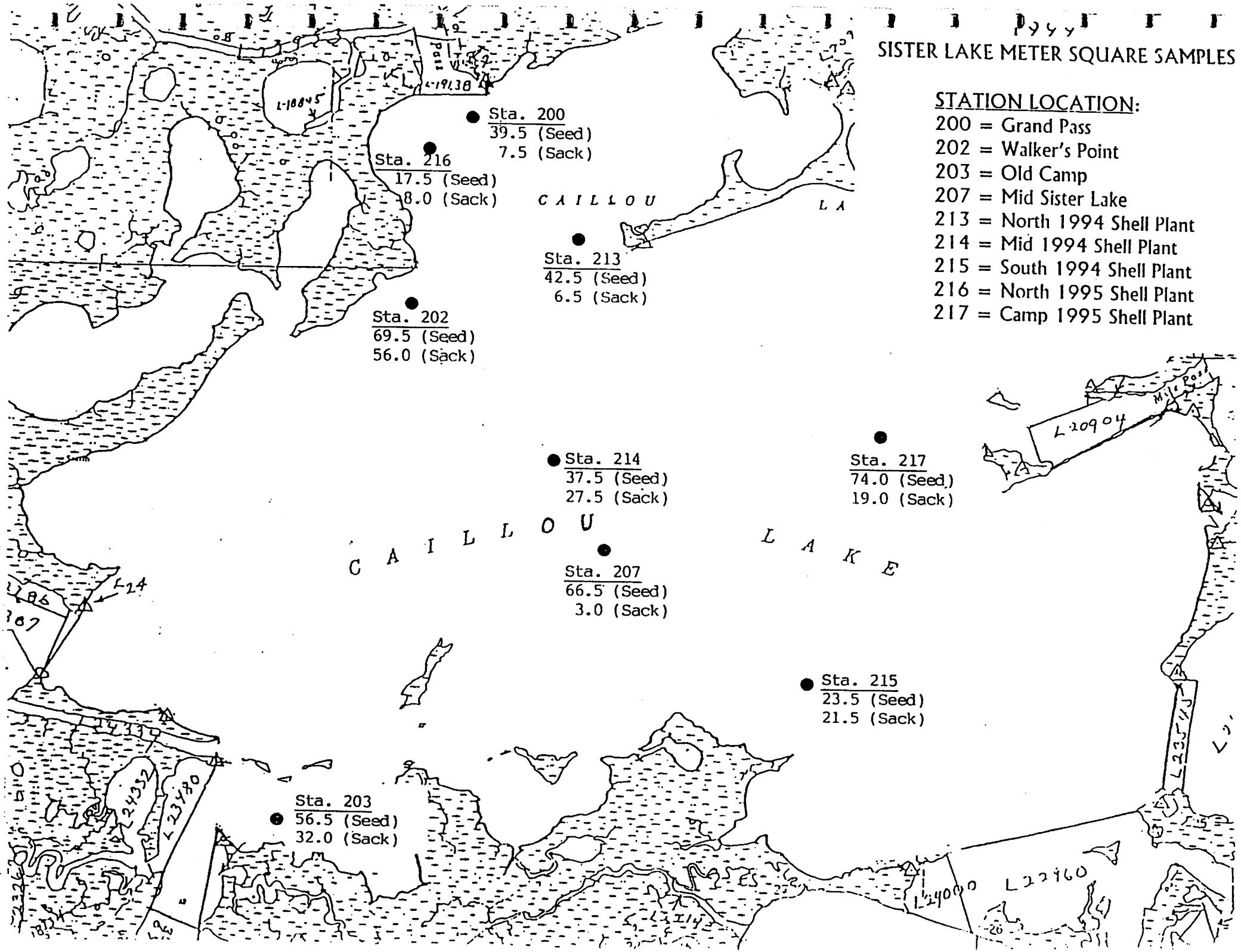
5 miles



SISTER LAKE

Station Location

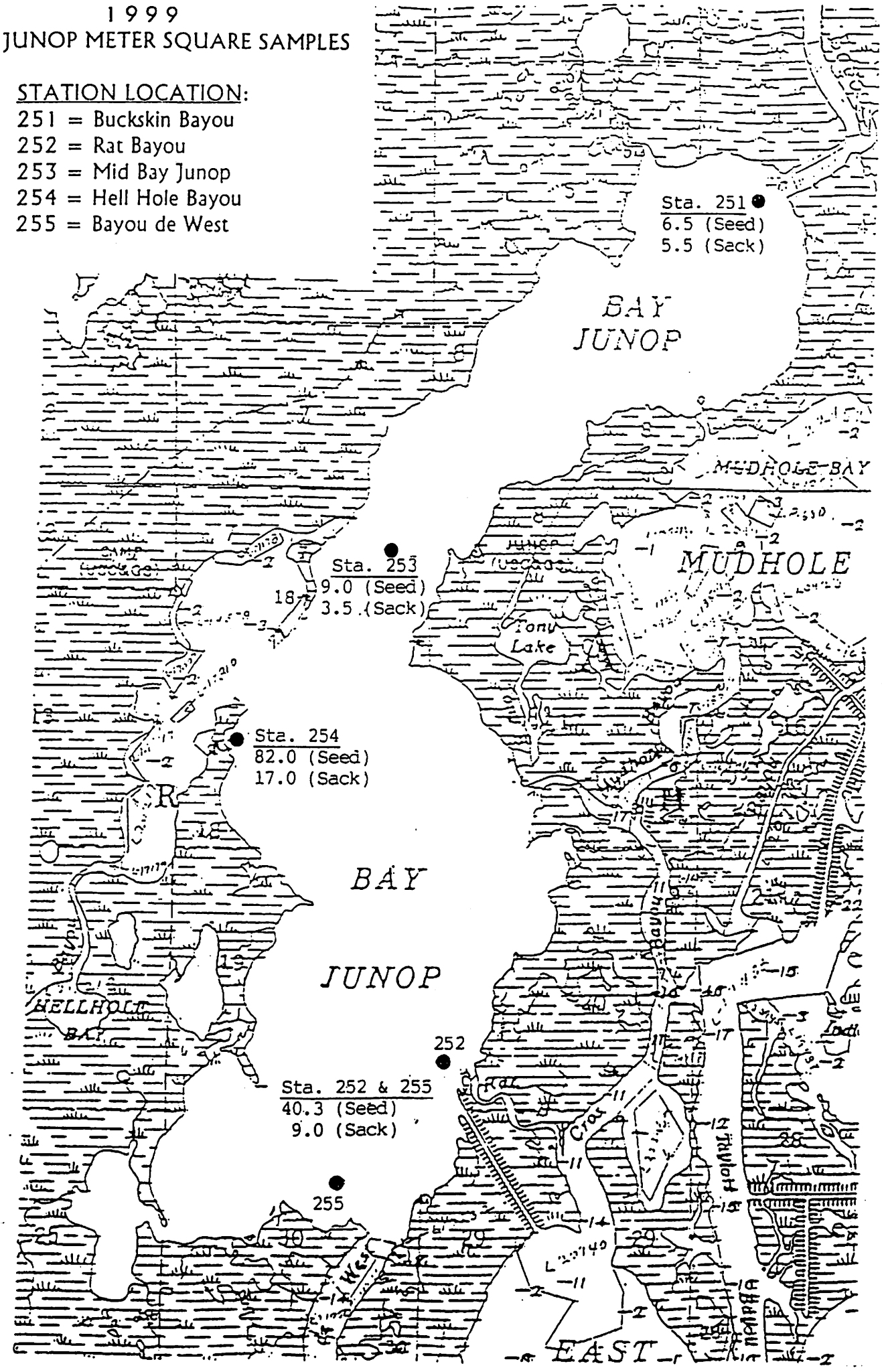
200 = Grand Pass
202 = Walker's Point
203 = Old Camp
207 = Mid Sister Lake
213 = North 1994 Shell Plant
214 = Mid 1994 Shell Plant
215 = South 1994 Shell Plant
216 = North 1995 Shell Plant
217 = Camp 1995 Shell Plant


SISTER LAKE METER SQUARE SAMPLES
STATION LOCATION:
200 = Grand Pass
202 = Walker's Point
203 = Old Camp
207 = Mid Sister Lake
213 = North 1994 Shell Plant
214 = Mid 1994 Shell Plant
215 = South 1994 Shell Plant
216 = North 1995 Shell Plant
217 = Camp 1995 Shell Plant
Sta. 200
39.5 (Seed)
7.5 (Sack)
Sta. 216
17.5 (Seed)
8.0 (Sack)
Sta. 213
42.5 (Seed)
6.5 (Sack)
Sta. 202
69.5 (Seed)
56.0 (Sack)
Sta. 214
37.5 (Seed)
27.5 (Sack)
Sta. 217
74.0 (Seed)
19.0 (Sack)
Sta. 207
66.5 (Seed)
3.0 (Sack)
Sta. 215
23.5 (Seed)
21.5 (Sack)
Sta. 203
56.5 (Seed)
32.0 (Sack)
CAILLOU LAKE
L-10845
L-19138
L-20904
L-24332
L-23480
L-24000
L-22960

1999
BAY JUNOP METER SQUARE SAMPLES

STATION LOCATION:

251 = Buckskin Bayou
252 = Rat Bayou
253 = Mid Bay Junop
254 = Hell Hole Bayou
255 = Bayou de West



1999 OYSTER AVAILABILITY
SISTER LAKE 1995 SHELL PLANTS

SEED OYSTERS

SHELL PLANT	ACRES	# METER^2	# SEED OYSTERS	BARRELS SEED OYSTERS
North 1995	115	465,405	31.0	11,311.9
Camp 1995	438	1,772,586	62.0	182,182.5
TOTALS	**553**	**2,237,991**	**93.0**	**193,494.4**

SACK OYSTERS

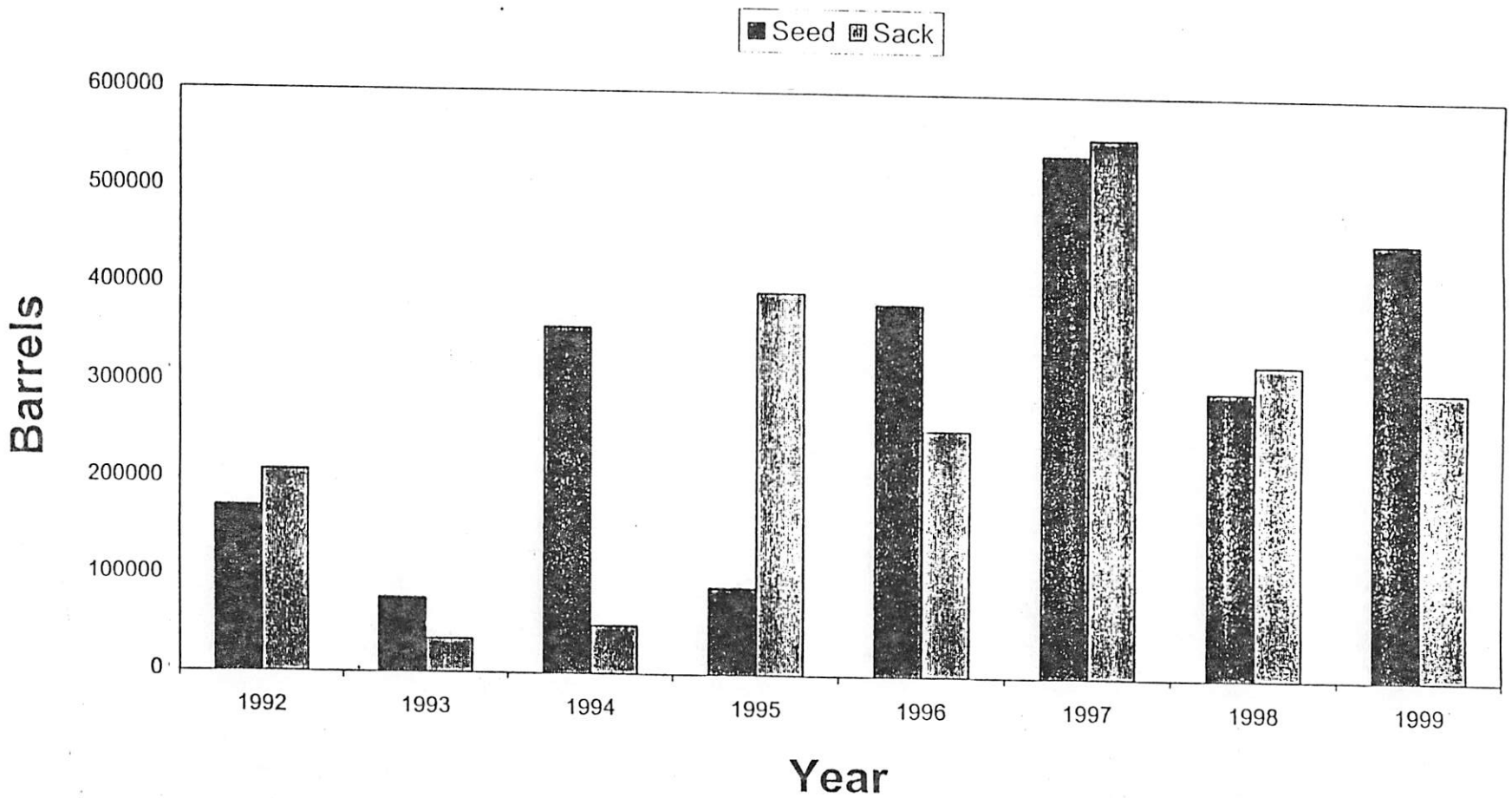
SHELL PLANT	ACRES	# METER^2	# SACK OYSTERS	BARRELS SACK OYSTERS
North 1995	115	465,405	10.0	10,342.3
Camp 1995	438	1,772,586	42.0	93,553.2
TOTALS	**553**	**2,237,991**	**52.0**	**103,895.5**

1999 BAY JUNOP OYSTER AVAILABILITY

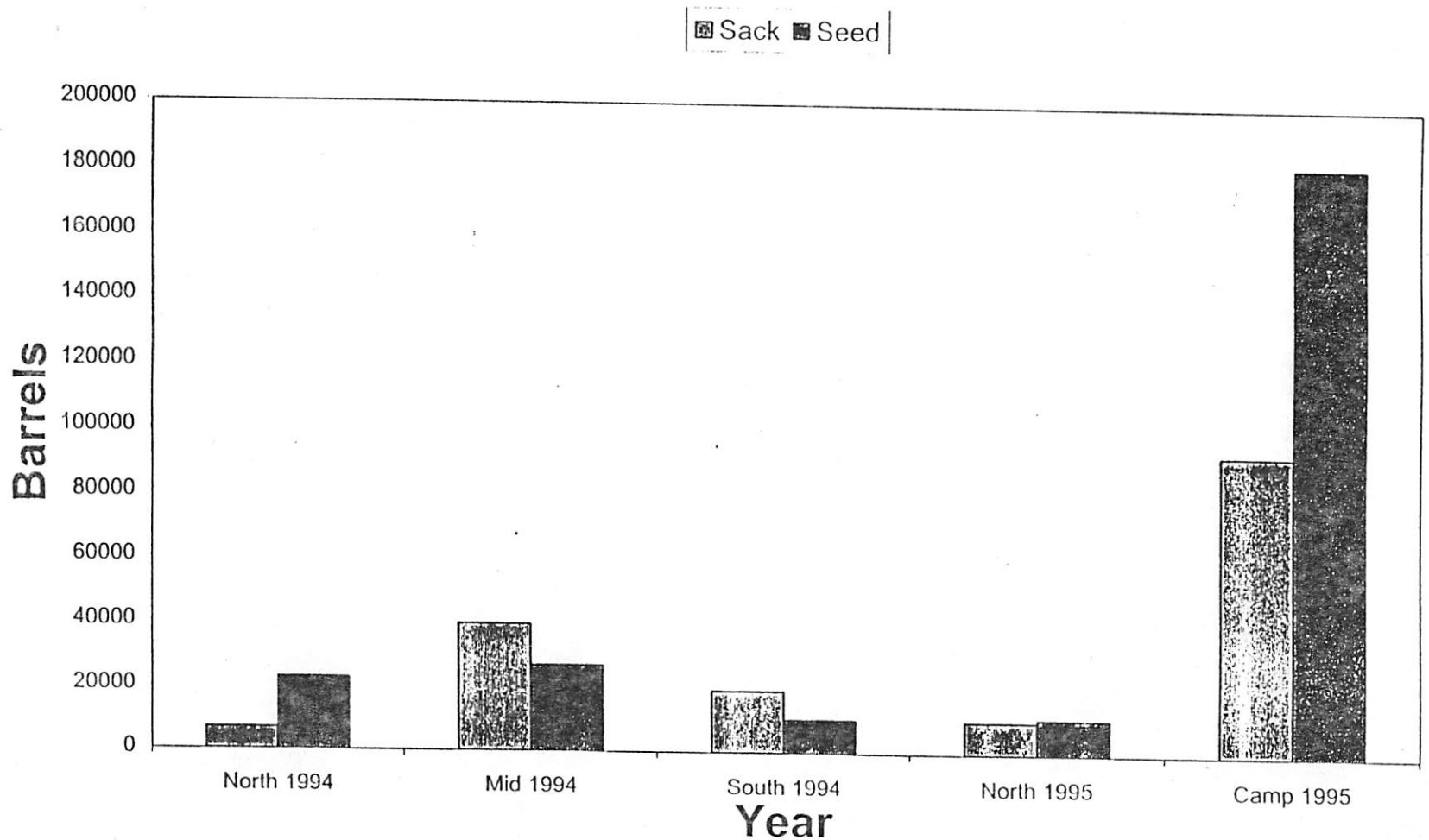
METER² STATION	REEF ACREAGE	# METER²	# SEED OYSTERS	# SACK OYSTERS	BARRELS SEED OYSTERS	BARRELS SACK OYSTERS
251	17.2	69,608.40	6.5	5.5	628.4	1,063.5
252*	67.36	272,605.92	40.3	9.0	15,258.4	6,815.1
253	73.26	296,483.22	9.0	3.5	3,706.0	2,882.5
254	94.20	381,227.40	82.0	17.0	43,417.6	18,002.4
255*						
TOTALS	**252.02**	**1,019,924.9**	**137.8**	**35.0**	**63,010.4**	**28,763.5**

Stations 252 and 255 are combined.

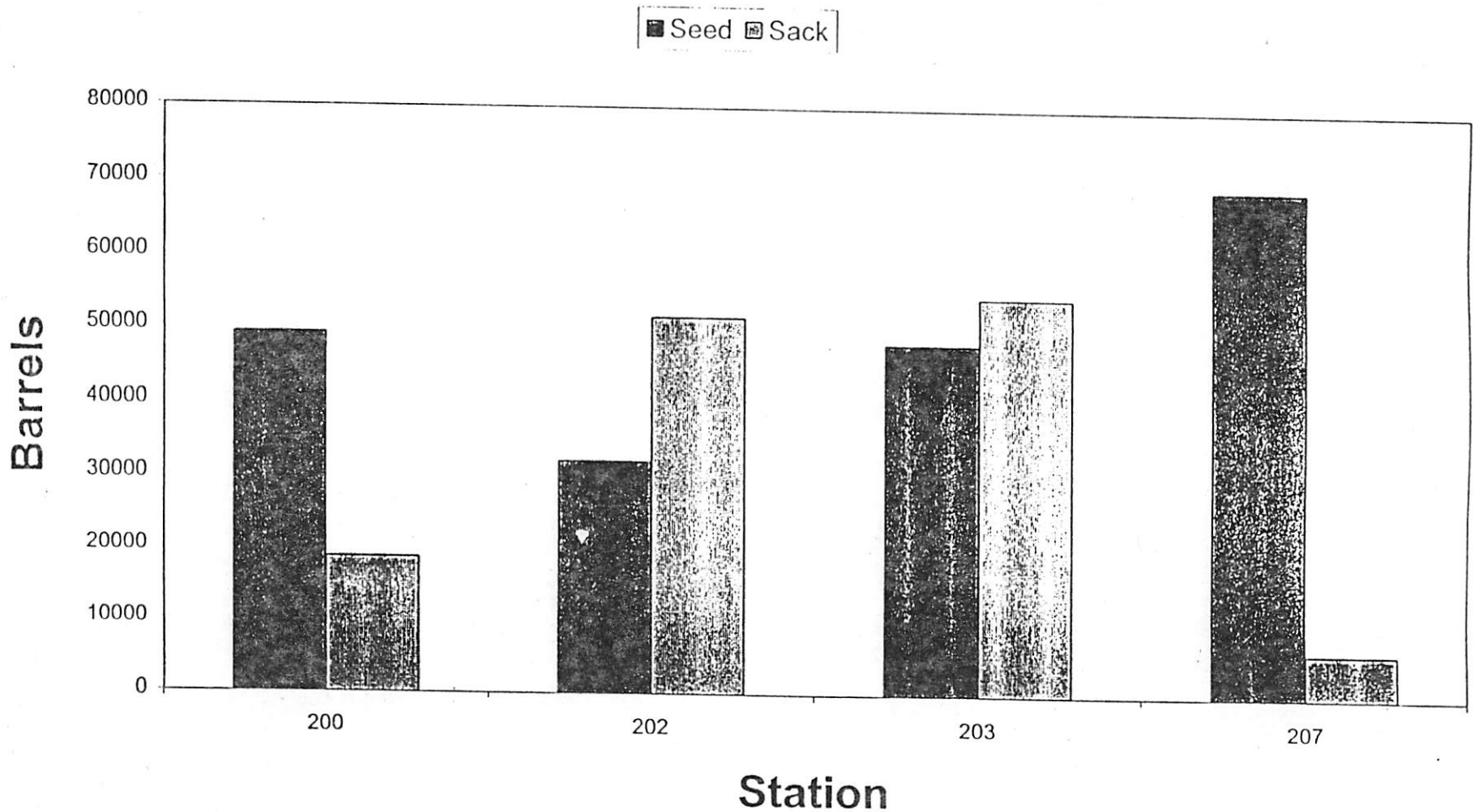
SISTER LAKE HISTORICAL OYSTER AVAILABILITY



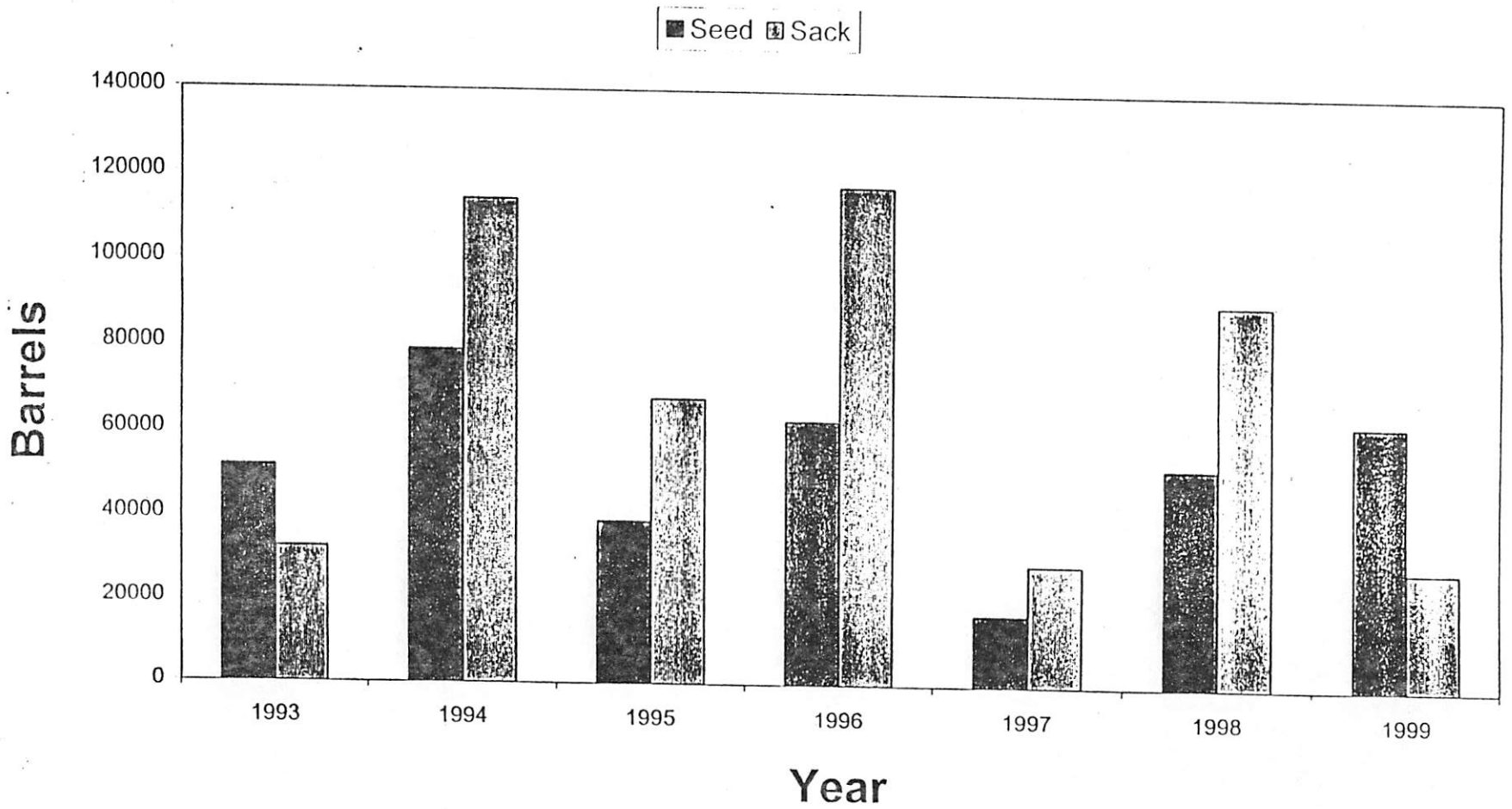
1999 OYSTER AVAILABILITY SISTER LAKE SHELL PLANTS



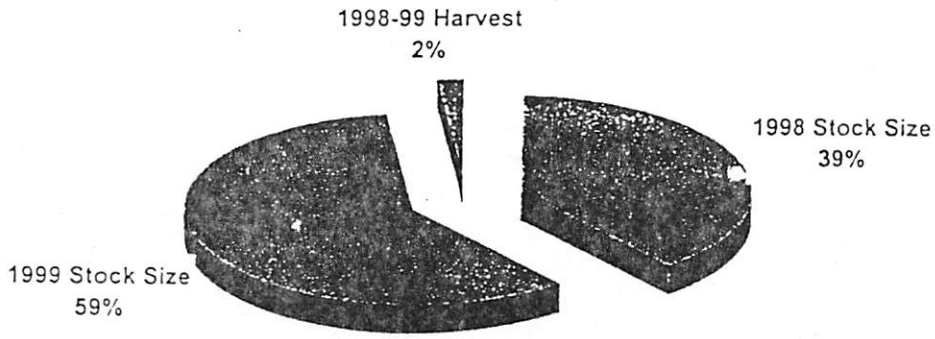
1999 SISTER LAKE OYSTER AVAILABILITY
(Reefs Only)



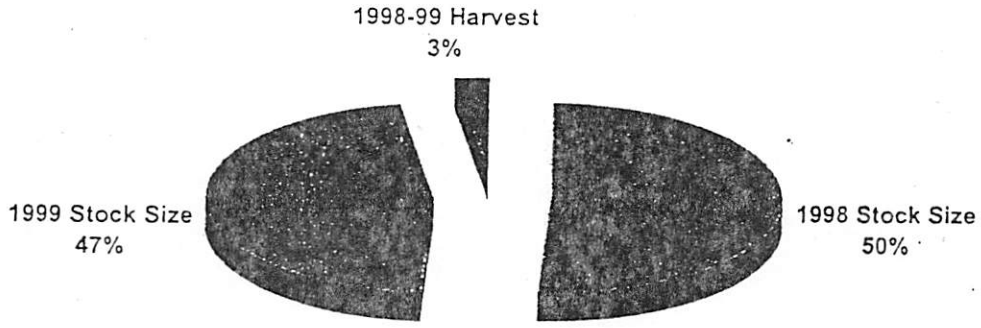
BAY JUNOP HISTORICAL OYSTER AVAILABILITY



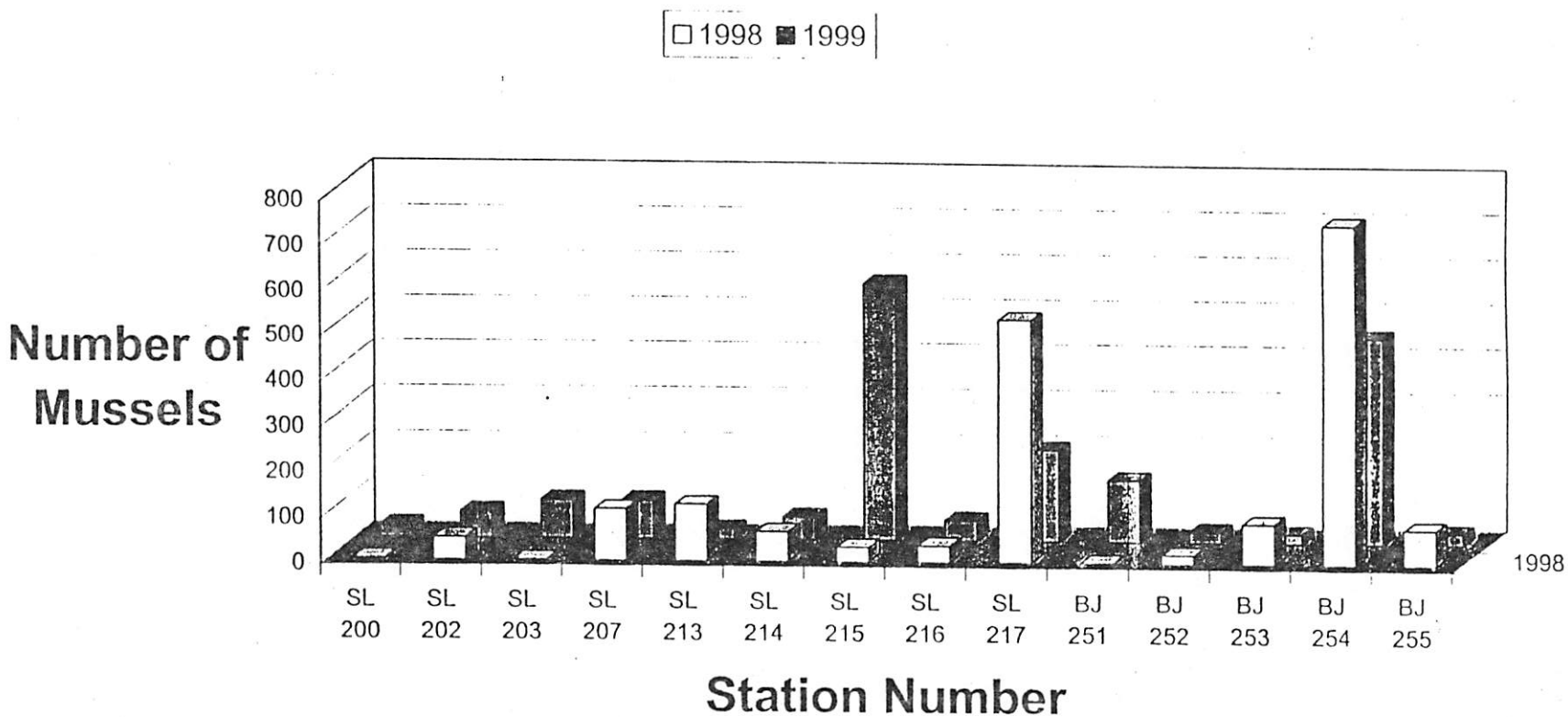
SISTER LAKE SEED OYSTER STOCK SIZE



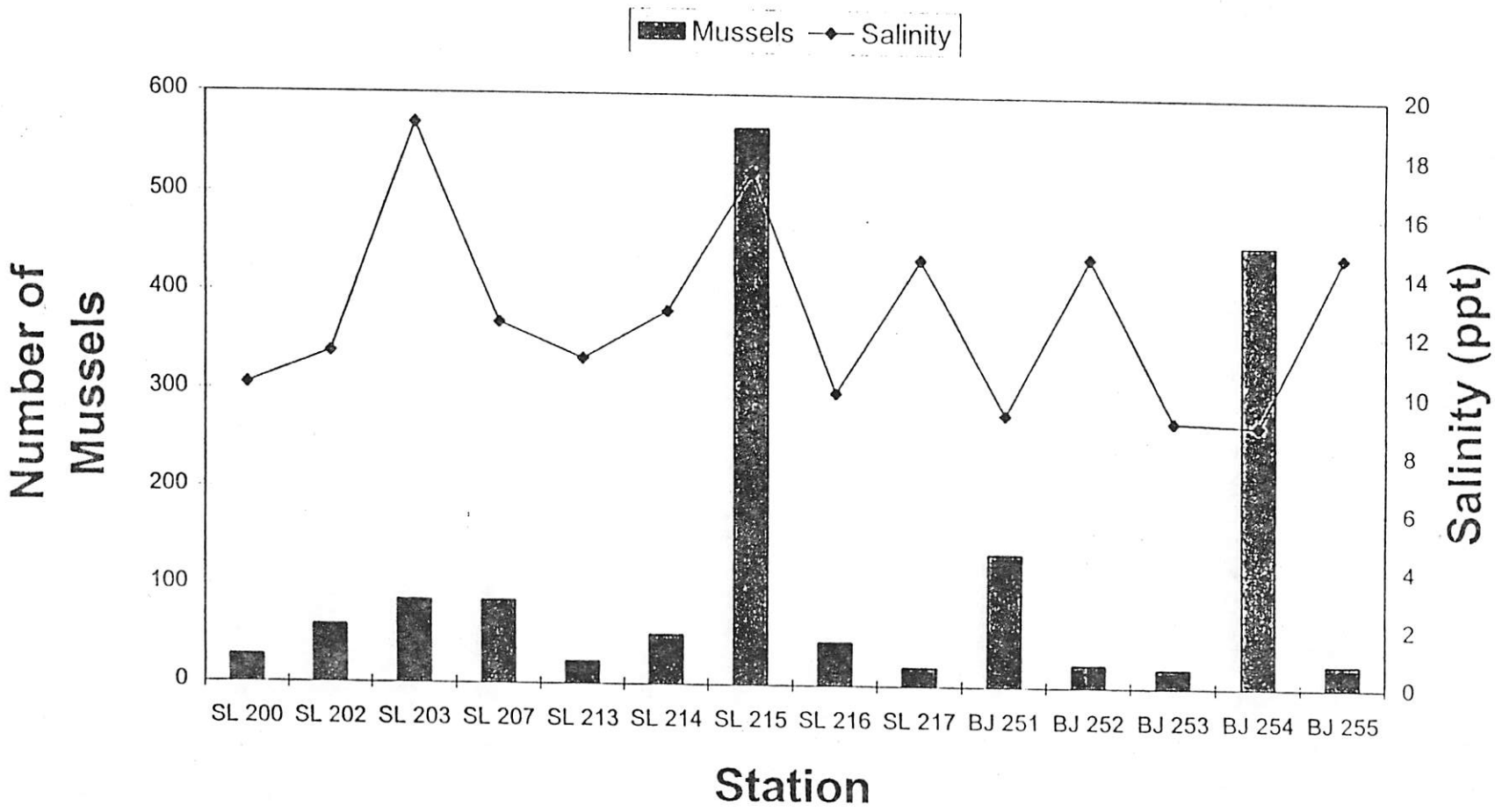
SISTER LAKE SACK OYSTER STOCK SIZE



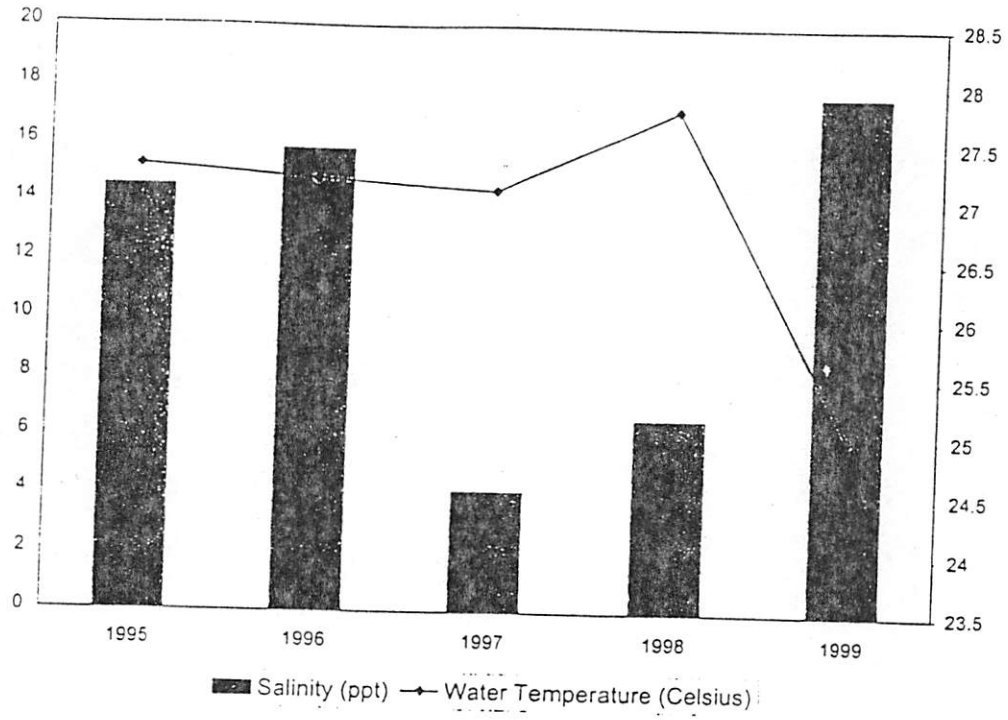
HOOKED MUSSEL FREQUENCY DISTRIBUTION



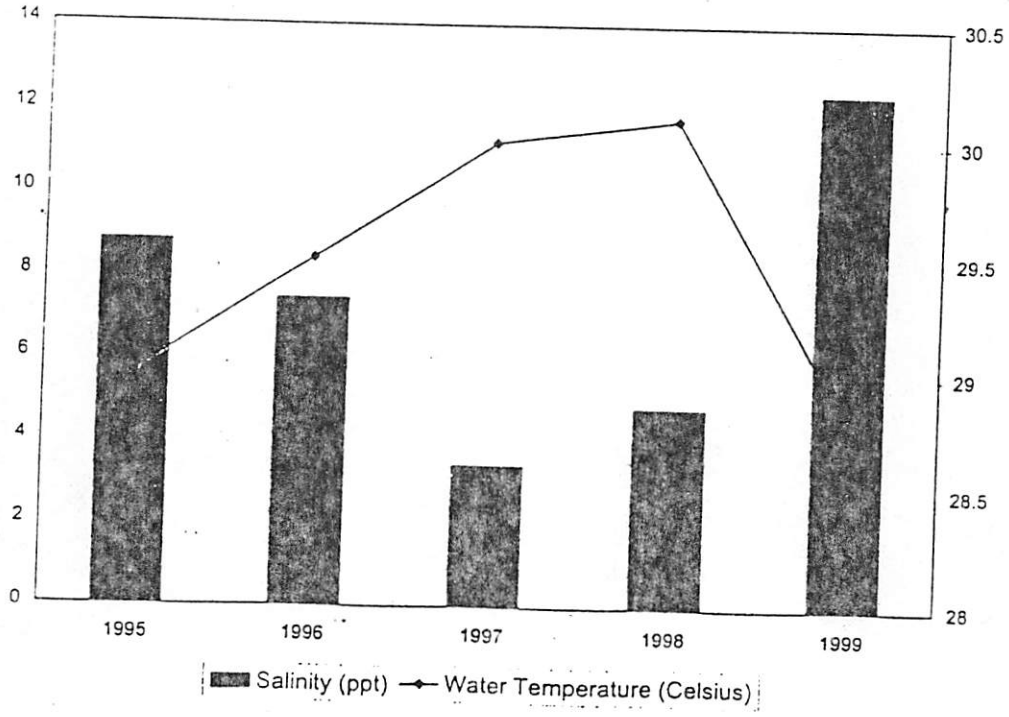
HOOKED MUSSEL FREQUENCY DISTRIBUTION AND SALINITY



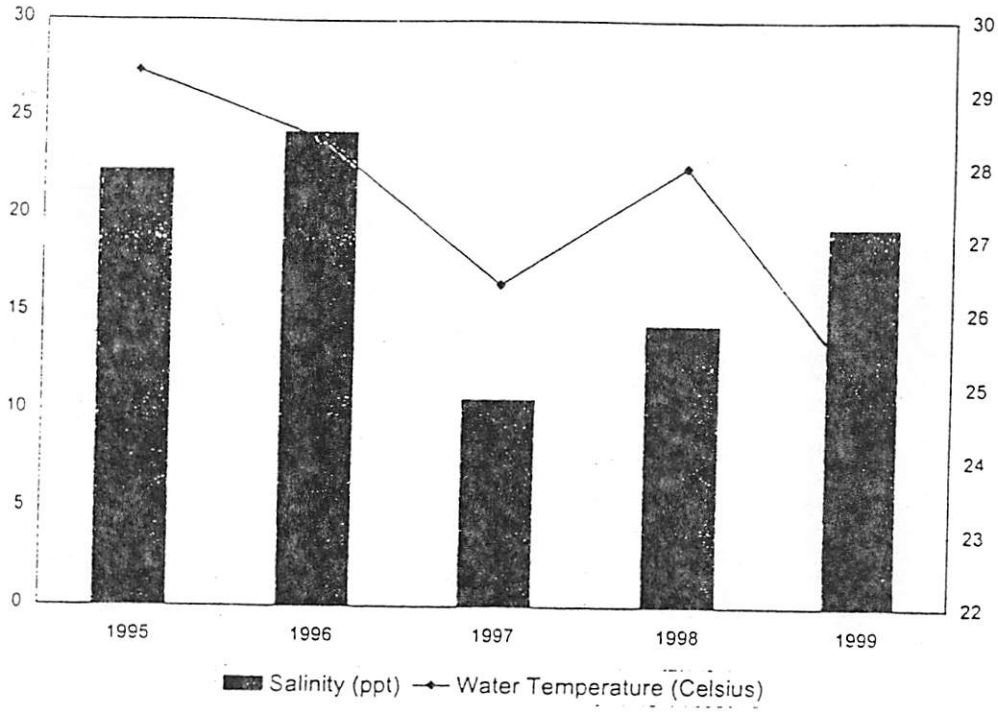
MAY SISTER LAKE SALINITY AND WATER TEMPERATURE



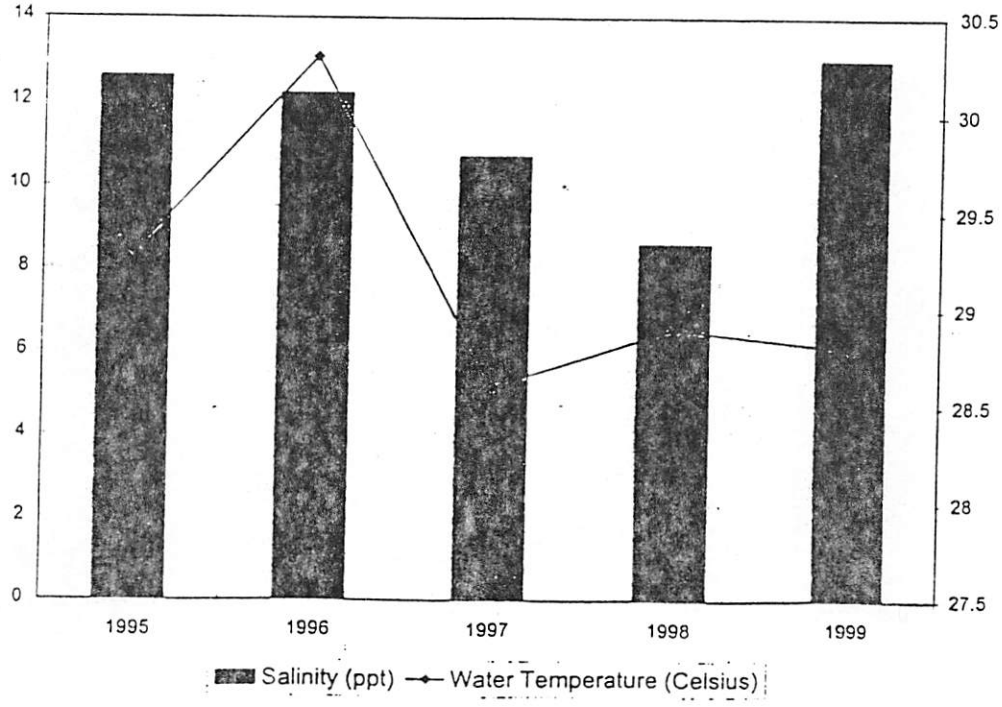
JUNE SISTER LAKE SALINITY AND WATER TEMPERATURE



MAY BAY JUNOP SALINITY AND WATER TEMPERATURE



JUNE BAY JUNOP SALINITY AND WATER TEMPERATURE



State of Louisiana

James H. Jenkins, Jr.
Secretary

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

M.J. "Mike" Foster, Jr.
Governor

MEMORANUM

TO: Ron Dugas

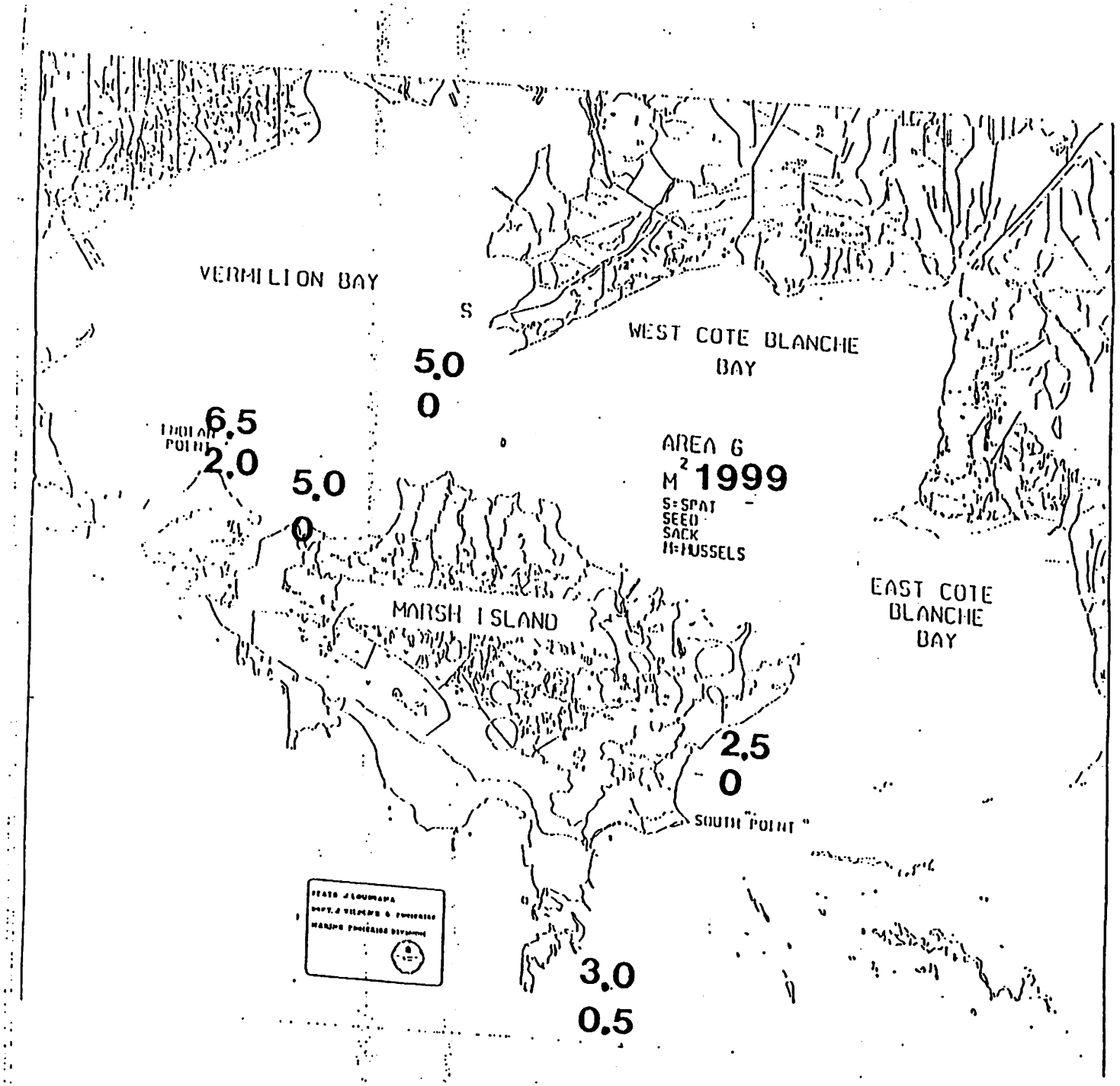
FROM: Pete Juneau PJ

DATE: June 23, 1999

SUBJECT: Meter square samples 1998

Please note the results of the square meter samples for 1998 as requested. Let me know if you need further information.

PJ/dgg
Enclosure


VERMILION BAY
S
WEST COTE BLANCHE BAY
5.0
0
6.5
2.0
5.0
0
AREA G
M2 1999
S=SPAT
SEED
SACK
M=MUSSELS
MARSH ISLAND
EAST COTE BLANCHE BAY
2.5
0
SOUTH "POINT"
3.0
0.5

OYSTER PRODUCTION IN CALCASIEU LAKE
JULY 1999

OYSTER NUMBERS

WESTSIDE

SIZE	STATION			AVE.
	4	5	6	
> 3"	17	7	29	8.8
1-3"	44	59	71	29.0

EASTSIDE

SIZE	STATION			AVE.
	1	2	3	
> 3"	44	41	45	21.7
1-3"	37	31	32	16.7

OYSTER PRODUCTION AREA

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

PRODUCTION OF > 3" OYSTERS

	WESTSIDE	EASTSIDE
OYSTERS:	25,890,274.696	84,655,726.869
SACKS:	143,834.9	470,309.6
TOTAL SACKS OF > 3" OYSTERS:		614,144.5

PRODUCTION OF 1-3" OYSTERS

	WESTSIDE	EASTSIDE
OYSTERS:	85,320,223.430	65,149,799.019
SACKS:	237,000.6	180,971.7
TOTAL SACKS OF 1-3" OYSTERS:		417,972.3

TOTAL PRODUCTION

TOTAL OVERALL POTENTIAL OF OYSTERS (SACKS):	1,032,116.8

COMMISSION ACTION & ORDERS

Sister Lake is alternated with Bay Junop. Chairman Gattle asked how many acres are in the public grounds? Mr. Dugas stated there is approximately 2 million acres. Then the Chairman asked how many acres of leased grounds are there? Mr. Dugas answered 400,000 acres. Then he stated approximately 80,000 sacks were harvested from the Calcasieu area which is almost double that taken from the previous season. Commissioner McCall made a motion to accept the Resolution. Commissioner Kelly seconded the motion and it was approved with no opposition.

(The full text of the Resolution and Declaration of Emergency is made a part of the record.)

RESOLUTION

1998/99 Season on the Public Oyster Grounds
Adopted by the
Louisiana Wildlife and Fisheries Commission
August 6, 1998
Louisiana Department of Wildlife and Fisheries

WHEREAS, R.S. 56:433 provides that the Public Oyster Seed Grounds may be opened on the Wednesday following Labor Day which in 1998 is September 9, and

WHEREAS, the oyster resources on the "Public Oyster Seed Grounds and Oyster Seed Reservation" have been surveyed and the available supply and size variation has been determined, and

WHEREAS, Act #46 of the 1992 Legislative Session changed R.S. 56:433B to mandate a sacking area only on the Public Grounds east of the Mississippi River inclusive of Plaquemines and St. Bernard Parishes.

THEREFORE BE IT RESOLVED, that the Louisiana Public Oyster Seed Grounds, Bay Gardene, Hackberry Bay, and Bay Junop Oyster Seed Reservations not currently under lease will open one-half hour before sunrise on September 9, 1998, and

BE IT FURTHER RESOLVED, that the Sister Lake Oyster Seed Reservation will be open for 12 days only from one-half hour before sunrise October 5, 1998 to one-half hour after sunset October 16, 1998, and

BE IT FURTHER RESOLVED, that the sacking only area of the public grounds is generally Lake Fortuna and Lake Machias to a line from Mozambique Pt. to Pt. Gardner to Grace Pt. at the Mississippi River Gulf Outlet.

BE IT FURTHER RESOLVED, that the Secretary of the Department of Wildlife and Fisheries is authorized to take emergency action if necessary, to close areas if oyster mortalities are occurring or to delay the season or close areas where significant spat catch has occurred with good probability of survival, or where it is found that there are excessive amounts of shell in seed oyster loads, and

BE IT FURTHER RESOLVED, that the Secretary will also have the authority to take emergency action to reopen areas previously closed if the threat to the resource has ended, and

BE IT FURTHER RESOLVED, that the season for Calcasieu and Sabine Lake tonging areas will open one-half hour before sunrise on October 16, 1998 and remain open until one-half hour after sunset on April 30, 1999.

BE IT FURTHER RESOLVED, that the notice of any opening, delaying or closing of a season will be made by public notice at least 72 hours prior to such action.

Thomas M. Gattle, Jr., Chairman La. Wildlife and Fisheries Commission	James H. Jenkins, Jr., Secretary La. Department of Wildlife & Fisheries

DECLARATION OF EMERGENCY

Department of Wildlife and Fisheries
Wildlife and Fisheries Commission

In accordance with the emergency provisions of the Administrative Procedure Act, R.S. 49:953(B) and 967, and under the authority of R.S. 56:433 and R.S. 56:435.1 notice is hereby given that the Secretary of the Department of Wildlife and Fisheries and the Wildlife and Fisheries Commission hereby declares:

1. The Public Oyster Seed Grounds not currently under lease, Bay Junop, Bay Gardene Oyster and Hackberry Bay Oyster Seed Reservations will open one-half hour before sunrise September 9, 1998.

2. The Sister Lake Oyster Seed Reservation will be open for 12 days only from October 5 to October 16, 1998.

3. A designated sacking only area east of the Mississippi River will open one-half hour before sunrise on September 9, 1998. The sacking only area of the public grounds is generally Lake Fortuna and Lake Machias to a line from Mozambique Pt. to Pt. Gardner to Grace Pt. at the Mississippi River Gulf Outlet.

RESOLUTION

Bay Junop Oyster Seed Reservation Season Extension
February 4, 1999
Louisiana Wildlife and Fisheries Commission
Louisiana Department of Wildlife and Fisheries

WHEREAS, the Louisiana Wildlife and Fisheries Commission set the 98/99 oyster season to run from September 9, 1998 to April 1, 1999 at its August, 1998 meeting with the exception of Calcasieu Oyster Tong Area, and

WHEREAS, R.S. 56:433 B(1) allows for Commission consideration of an extension to May 15th of the oyster season, and

WHEREAS, virtually all of the Bay Junop Oyster Seed Reservation was closed by the State Health Department during the 98/99 oyster season, and

WHEREAS, the Health Department has indicated that the entire Bay Junop Oyster Seed Reservation will meet the harvesting criteria in May.

THEREFORE BE IT RESOLVED, the Bay Junop Oyster Seed Reservation will remain open for oyster harvest until ½ hour after sunset on May 15, 1999, and

BE IT ALSO RESOLVED, that the remaining public oyster grounds will close as previously scheduled.

Bill A. Busbice, Jr.
Chairman, La. Wildlife and Fisheries Commission

James H. Jenkins, Jr.
Secretary, La. Department of Wildlife and Fisheries

DECLARATION OF EMERGENCY

Department of Wildlife and Fisheries
Wildlife and Fisheries Commission

In accordance with the emergency provisions of the Administrative Procedure Act, R.S. 49:953 (B) and 967, and under the authority of R.S. 56:433 and R.S. 56:434, notice is hereby given that the Secretary of the Department of Wildlife and Fisheries and the Wildlife and Fisheries Commission hereby declare:

That the Bay Junop Oyster Seed Reservation will remain open for oyster harvest until ½ hour after sunset on May 15, 1999.

Bill A. Busbice, Jr.
Chairman

EMERGENCY ORDER OF RECLASSIFICATION OF MOLLUSCAN SHELLFISH WATERS IN LOUISIANA

Pursuant to the provisions of LSA - R.S. 40:5.3, as amended and re-enacted by Act 1 of the First Regular Legislative Session of 1988, all molluscan shellfish growing waters from the east bank of the Mississippi River to the Louisiana - Mississippi state line are being closed to the harvest of molluscan shellfish.

This emergency reclassification action is being taken as a result of extreme tidal flooding and storm water surge associated with the passage of Hurricane Georges along the Louisiana coast.

Reopening of these molluscan shellfish growing waters will occur official sunrise October 13, 1998 at which time these growing areas will revert to their seasonal classification status.

This order will become effective official sunset September 29, 1998.

So Ordered this 29th day of September 1998.

Jimmy Guidry MD — 9/29/98

Dr. Jimmy Guidry — Date
Assistant Secretary and State Health Officer
Office of Public Health

David W Hood — 9/29/98

David W. Hood — Date
Secretary
Department of Health and Hospitals