

**ECOLOGICAL MONITORING
AT THE
FLORIDA POWER & LIGHT CO.
ST. LUCIE PLANT**

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Volume 2: Appendix

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Ecological Consultants



5891 NEW PEACHTREE ROAD
ATLANTA, GEORGIA 30340

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TABLE H-1
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
1-2 APRIL 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0930	shrimp	7	14-25	30
	blue crab	2	106-131	225
	Cuban anchovy	5	40-50	4
	bay anchovy	4	38-41	2
	gray snapper	1	134	73
	lined sole	1	39	2
0930-1700	shrimp	3	13-20	8
	blue crab	1	90	49
	bay anchovy	7	40-47	7
	Cuban anchovy	3	47-49	4
	planehead filefish	1	54	6
1700-0100	shrimp	2 7	10 84-105	2 49
	blue crab	1	97	73
	crevalle jack	1	322	831
	bay anchovy	1	41	1
	Cuban anchovy	1	40	2
	lined sole	1	46	3

TABLE H-2
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
9-10 APRIL 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	10	8-12	5
		5	21-25	33
	blue crab	6	76-107	370
	silver jenny	2	86-89	33
	lined sole	2	32-46	4
	Cuban anchovy	2	46-50	2
	bay anchovy	1	45	1
	pigfish	1	42	2
	crevalle jack	1	345	915
0900-1700	blue crab	4	84-94	213
		2	110-114	138
	shrimp	1	11	1
		2	27-32	32
	spiny lobster	1	11	1
	Cuban anchovy	93	41-60	146
	bay anchovy	72	38-55	82
	bigeye anchovy	6	51-56	12
	silver jenny	28	61-92	354
	Atlantic bumper	7	80-102	78
	menhaden	3	30-39	2
	tomtate	1	108	28

TABLE H-2
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
9-10 APRIL 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	smallmouth grunt	1	97	20
	scrawled cowfish	1	32	4
	yellow jack	1	51	4
	butterfish	1	40	2
1700-0100	shrimp	1 5	10 18-23	1 28
	blue crab	1	86	48
	bay anchovy	25	38-55	30
	Cuban anchovy	8	46-58	10
	southern puffer	1	125	66
	cusck-eel	1	93	3
	sand drum	1	34	1
	menhaden	1	37	1

TABLE H-3
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
16-17 APRIL 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0930	shrimp	4	9-17	4
	blue crab	3	89-110	238
	Cuban anchovy	31	47-57	36
	bay anchovy	26	40-56	26
	bigeye anchovy	1	53	1
	leopard searobin	1	89	11
	chain pipefish	1	54	2
	Irish pompano	1	35	1
0930-1700	blue crab	3	98-127	337
	spiny lobster	1	15	1
	Cuban anchovy	153	48-58	213
	bay anchovy	62	38-57	62
	bigeye anchovy	13	51-58	27
	black margate	4	113-124	210
		2	145-161	251
		1	184	215
	porkfish	3	77-91	69
		1	119	63
		1	155	137
	sand drum	4	38-40	4
		1	77	7
	reef croaker	1	61	4
		4	94-104	83

TABLE H-3
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
16-17 APRIL 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0930-1700 (continued)	tomtate	3	102-117	105
	silver porgy	2	116-137	159
	sailors choice	1	89	20
	bluestriped grunt	1	141	85
	white grunt	1	204	254
	seaboard goby	1	37	1
	planehead filefish	1	75	236
1700-0100	shrimp	2	18-22	6
	bay anchovy	42	40-51	39
	Cuban anchovy	30	46-55	35
	bigeye anchovy	2	51-53	4
	striped anchovy	1	61	2
	sand drum	2	43-44	2
	lined sole	1	43	1
	leopard searobin	1	36	1
	pigfish	1	50	3
	southern stargazer	1	181	192
	horse-eye jack	1	23	1

TABLE H-4
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
3-4 MAY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	3	14-24	8
	blue crab	1	78	16
	bay anchovy	5	42-55	6
	Cuban anchovy	1	49	1
	lined sole	3	44-50	10
	sargassumfish	1	75	23
	leopard searobin	1	72	5
0900-1700	shrimp	1	25	10
	bay anchovy	712	38-57	809
	Cuban anchovy	156	47-60	222
	bigeye anchovy	2	58	5
	sailors choice	2	50-52	8
	silver jenny	1	45	3
1700-0100	shrimp	6	10-19	7
	bay anchovy	96	39-54	107
	Cuban anchovy	14	46-58	17

TABLE H-5
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
6-7 MAY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0930	shrimp	15	11-28	71
	blue crab	3	84-102	208
	bay anchovy	29	40-55	34
	silver jenny	1	63	6
0930-1700	shrimp	2	22	14
	bay anchovy	4	45-48	4
	Cuban anchovy	2	51-55	3
	silver jenny	1	50	3
	yellowfin mojarra	1	49	3
	silver porgy	1	50	4
	weakfish	1	207	122
1700-0100	blue crab	1	42	6
		4	83-108	273
	shrimp	3	9-23	18
	bay anchovy	3	44-45	3
	chain pipefish	1	214	4
	planehead filefish	1	40	3

TABLE H-6
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
13-14 MAY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	18	8-17	49
		7	19-27	65
	blue crab	2	28-52	11
		6	71-109	494
		1	121	129
		1	193	451
	rock shrimp	1	11	2
	bay anchovy	112	41-63	129
	Cuban anchovy	4	55-61	8
	bigeye anchovy	2	56-58	5
	sand drum	5	34-41	5
	great barracuda	1	139	25
	yellowfin mojarra	1	84	19
	silver jenny	1	52	3
	crested goby	1	60	6
0900-1700	pigfish	1	43	2
	lined sole	1	54	5
0900-1700	bay anchovy	3	43-48	4
	silver porgy	2	35-53	7
1700-0100	blue crab	1	106	76
	shrimp	1	22	6

TABLE H-6 -
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
13-14 MAY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	bay anchovy	4	45-51	5
	Atlantic thread herring	1	87	8

TABLE H-7

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
14-15 MAY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	5	12-15	10
	blue crab	1	37	5
		2	111-119	234
	spiny lobster	1	31	13
	bay anchovy	6	43-54	8
	Cuban anchovy	3	52-56	6
	lined sole	1	43	4
	sand drum	1	32	1
0900-1700	blue crab	2	87-107	194
	shrimp	1	25	10
1700-0100	shrimp	3	10-14	6
	blue crab	1	91	67
	bay anchovy	4	46-52	5
	bandtail puffer	1	34	2

TABLE H-8

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
19-20 MAY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	14	10-16	24
		6	19-25	48
	blue crab	1	38	3
		2	66-74	43
	rock shrimp	1	10	2
	bay anchovy	7	44-51	9
	Atlantic bumper	1	19	1
0900-1700	lined seahorse	1	103	4
	blue crab	7	30-45	24
		3	102-110	275
	shrimp	5	8-16	11
	bay anchovy	17	42-54	25
	sailors choice	1	86	21
	rock sea bass	1	54	4
1700-0100	planehead filefish	1	40	3
	shrimp	4	8-17	8
		1	22	8
	blue crab	1	44	6
	bay anchovy	9	40-51	11
	planehead filefish	2	51-52	12
	sailors choice	1	85	19
	sand drum	1	51	3

TABLE H-9

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
20-21 MAY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0930	shrimp	9	8-16	22
		6	17-25	56
	rock shrimp	1	11	1
	bay anchovy	15	40-53	16
	Cuban anchovy	4	51-57	7
	leopard searobin	2	57-73	17
	bandtail puffer	1	94	28
	sand drum	1	38	1
	pygmy sea bass	1	45	3
	goby	1	33	1
0930-1700	shrimp	1	18	5
	bay anchovy	3	50-51	5
	anchovy	1	26	1
	pinfish	1	83	20
	rock sea bass	1	53	5
	northern sennet	1	53	1
	black margate	1	144	109
1700-0100	blue crab	1	39	4
	bay anchovy	3	41-52	3

TABLE H-9
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
20-21 MAY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	Cuban anchovy	1	62	3
	striped anchovy	1	60	2

TABLE H-10
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
24-25 MAY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	4 1	15-17 23	12 9
	blue crab	1	81	46
	spiny lobster	1	11	2
	bay anchovy	2	45-47	2
	sand drum	1	45	2
0900-1810	shrimp	1	18	5
	blue crab	1	101	83
	bay anchovy	1140 ^a	43-62	1480
	Cuban anchovy	80 ^a	57-63	160
	Spanish sardine	4	42-47	5
	great barracuda	2	41-45	2
	sand drum	1	41	2
1810-0100	shrimp	19 3	8-16 17-25	32 26
	bay anchovy	360 ^a	45-57	445
	Atlantic thread herring	1	42	2

^aCalculated from a 25% subsample.

TABLE H-11
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
27-28 MAY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	4	12-16	11
		8	17-21	51
	blue crab	1	55	9
	bay anchovy	4	33-54	5
	pinfish	1	36	2
	great barracuda	1	41	1
	bull pipefish	1	204	3
0900-1700	shrimp	3	10-16	7
		8	17-27	49
	blue crab	1	24	1
	bay anchovy	23	44-55	35
1700-0100	shrimp	6	9-14	6
		5	17-20	28
	rock shrimp	1	11	2
	blue crab	1	107	88
	bay anchovy	16	44-51	24
	anchovy	1	35	1
	leopard searobin	2	84-89	22
	Irish pompano	1	46	3
	northern sennet	1	40	1
	sargassumfish	1	72	17

TABLE H-12
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
1-2 JUNE 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700	blue crab	4	74-92	190
		4	106-114	439
	shrimp	8	14-23	39
	sailors choice	5	66-80	56
		3	88-102	70
	planehead filefish	1	205	341
	inshore lizardfish	1	103	7
	bluelip parrotfish	1	91	16
1700-0100	Irish pompano	1	47	3
	shrimp	2	9-10	2
	bay anchovy	3	49-53	5
	northern sennet	2	41-46	1
0100-0900	shrimp	12	9-18	26
		6	19-26	45
	blue crab	2	26	2
		2	50-64	26
	inshore lizardfish	1	95	5
	leopard searobin	1	83	9
	bandtail puffer	1	46	3
	lined sole	1	41	2
	spotted whiff	1	81	11
	spotfin mojarra	1	38	1

TABLE H-13
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
3-4 JUNE 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	8	9-17	22
		4	18-22	26
	blue crab	4	24-29	5
		3	91-119	306
	bay anchovy	1	51	1
	sargassumfish	1	71	18
0900-1700	rock shrimp	2	9-10	2
	bandtail puffer	1	52	5
1700-0100	bay anchovy	184	45-60	284
	spotfin mojarra	1	41	2
	inshore lizardfish	1	93	6
	leopard searobin	1	94	13

TABLE H-14
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
7-8 JUNE 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0915	shrimp	2	14-20	7
		1	29	17
	blue crab	1	26	1
		1	92	68
	bay anchovy	17	43-59	26
0915-1700	bay anchovy	6	44-59	10
1700-0100	shrimp	7	7-10	4
		8	12-18	25
	rock shrimp	2	10-12	3
	blue crab	1	50	8
	bay anchovy	12	42-62	17
	Cuban anchovy	4	58-64	8
	bigeye anchovy	1	63	3
	silver perch	2	32-33	1
	chain pipefish	1	252	9
	inshore lizardfish	2	70-86	8

TABLE H-15
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
10-11 JUNE 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	20	8-17	30
		6	18-26	58
	rock shrimp	1	9	1
	blue crab	3	25-48	10
	bay anchovy	4	46-52	6
	Cuban anchovy	4	55-62	6
	striped anchovy	1	44	1
	chain pipefish	3	162-177	5
	northern sennet	2	45-46	1
	Spanish sardine	1	52	2
	porkfish	1	26	1
	inshore lizardfish	1	91	5
0900-1700	bay anchovy	2	43-51	2
	Cuban anchovy	1	58	2
1700-0100	shrimp	13	7-17	17
		4	19-24	31
	blue crab	2	26-32	3
	southern puffer	1	57	7
	bay anchovy	1	51	1
	northern sennet	1	40	1

TABLE H-16

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
21-22 JUNE 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	12	10-17	26
		5	18-22	26
	rock shrimp	1	10	1
	blue crab	4	32-43	12
		2	62-83	52
	tomtate	3	33-35	3
	bay anchovy	2	50-51	3
	Cuban anchovy	2	51-57	3
	spotfin mojarra	1	42	2
	silver perch	1	36	2
	inshore lizardfish	1	206	16
0900-1700	shrimp	2	18-21	10
		1	33	24
	tomtate	1	31	1
	silver perch	1	35	1
	bay anchovy	1	52	2
1700-0100	shrimp	7	8-16	12
		4	18-20	19
	rock shrimp	4	9-12	4
	blue crab	3	32-47	17
	lesser electric ray	11	70-79	119
		1	311	382

TABLE H-16
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
21-22 JUNE 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	bay anchovy	7	43-57	8
	bigeye anchovy	2	57-64	7
	Cuban anchovy	1	63	3
	bandtail puffer	1	67	10
	leopard searobin	1	88	10
	chain pipefish	1	179	3
	rock sea bass	1	75	12

TABLE H-17
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
24-25 JUNE 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0920	shrimp	10	9-17	27
		3	18-21	19
	rock shrimp	1	10	1
	blue crab	1	28	2
	bay anchovy	1	47	2
	Cuban anchovy	1	57	2
	leopard searobin	1	52	3
0920-1700	shrimp	4	12-17	15
		3	18-20	20
	blue crab	1	71	25
	bay anchovy	4	48-50	5
	Cuban anchovy	1	58	2
	leopard searobin	1	91	11
1700-0100	shrimp	25	8-17	47
		9	18-22	54
	rock shrimp	1	11	1
	blue crab	2	23-27	2
	bay anchovy	2	53-57	3
	bigeye anchovy	1	65	3
	inshore lizardfish	1	115	15
	lined sole	1	44	4

TABLE H-17
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
24-25 JUNE 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	pinfish	1	94	25
	chain pipefish	1	199	4

TABLE H-18
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
28-29 JUNE 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	27	9-17	54
		21	18-21	134
	rock shrimp	2	10	2
	blue crab	1	89	57
	bay anchovy	4	46-52	5
	Cuban anchovy	1	59	2
	spotfin mojarra	1	48	2
0900-1700	shrimp	1	90	19
	shrimp	7	10-17	15
		6	18-27	53
	blue crab	2	33-43	7
		1	62	14
		1	94	59
	bay anchovy	3	47-55	4
	Cuban anchovy	1	60	2
1700-0100	tomtate	2	32-34	2
	lined sole	1	46	4
	bay whiff	1	94	17
	shrimp	20	9-17	35
		6	18-25	41
	blue crab	1	39	4
		1	74	24

TABLE H-18
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
28-29 JUNE 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	bay anchovy	5	50-62	7
	lined sole	3	40-52	10
	bay whiff	1	94	13
	leopard searobin	1	73	6
	searobin	1	52	3
	inshore lizardfish	1	107	10
	chain pipefish	1	173	2
	tomtate	1	36	1
	pygmy sea bass	1	49	3

TABLE H-19
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
1-2 JULY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	46	9-17	96
		16	18-26	126
	blue crab	4	37-66	25
		3	78-91	154
	rock shrimp	3	10-12	5
	bay anchovy	60	46-61	75
	bigeye anchovy	6	60-64	14
	Cuban anchovy	4	59-61	9
	bay whiff	4	69-86	23
		1	113	21
	inshore lizardfish	3	85-99	18
	ladyfish	2	289-302	451
	flounder (<i>B. robinsi</i>)	2	60-71	6
	lined sole	2	46-54	7
	bandtail puffer	2	61-63	12
	tomtate	2	35-40	2
	spotfin mojarra	2	49-54	8
	chain pipefish	2	187-242	9
	hamlet	1	40	2
	planehead filefish	1	36	2
	barbfish	1	140	100
	Atlantic bumper	1	35	1

TABLE H-19
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
1-2 JULY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1800	shrimp	4	10-13	5
		9	18-29	80
	blue crab	4	27-47	19
	bay anchovy	15	45-56	20
	Cuban anchovy	2	62-63	4
	tomtate	4	37-46	7
	inshore lizardfish	2	95-118	19
	lined sole	1	49	3
	chain pipefish	1	106	1
	spotfin mojarra	1	67	6
	northern sennet	1	64	1
1800-0100	shrimp	1	16	4
	blue crab	1	58	17
	bay anchovy	5	43-52	7
	lined sole	1	40	3

TABLE H-20
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
6-7 JULY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	7	11-17	21
	blue crab	1	108	116
	bay anchovy	66	46-58	99
	Cuban anchovy	2	58-61	5
	bigeye anchovy	1	68	4
	great barracuda	1	273	141
	inshore lizardfish	1	125	15
	bay whiff	1	91	12
0900-1700	shrimp	2	9-10	1
	bay anchovy	35	44-62	47
	Cuban anchovy	2	58-61	4
1700-0440	shrimp	8	12-17	18
		2	19-23	15
	rock shrimp	2	9-16	5
	blue crab	2	57-78	48
	bay anchovy	11	43-58	16
	striped mojarra	2	76-89	31
	lined sole	1	47	5
	flounder (<i>B. robinsi</i>)	1	57	4
	silver perch	1	36	1
	bighead searobin	1	54	3

TABLE H-21
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
8-9 JULY 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0910	shrimp	10	10-15	11
	blue crab	1	98	67
	bay anchovy	34	46-61	58
	Cuban anchovy	4	58-65	11
	bighead searobin	1	69	6
0910-1700	shrimp	1	11	1
	bay anchovy	9	48-55	13
	Cuban anchovy	3	61-65	6
	surgeonfish	1	23	1
	ladyfish	1	314	250
	striped mojarra	1	213	343
	spotfin mojarra	1	64	6
1700-0100	shrimp	13	7-14	17
	blue crab	2	50-78	32
	bay anchovy	18	45-59	24
	ladyfish	1	312	279

TABLE H-22

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
13 AUGUST 1976^a

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0915	shrimp	2 62	9 13-22	1 243
	blue crab	2	80-91	80
	bay anchovy	5	49-56	6
	Cuban anchovy	4	58-62	7
	bigeye anchovy	1	64	2
	flounder (<i>B. robinsi</i>)	1	51	2
	bay whiff	1	89	12
	spotfin mojarra	1	94	17
0915-1700	shrimp	2 4	10-12 17-21	2 20
	blue crab	5 1	84-92 112	221 80
	tomtate	19	45-79	105
	bay anchovy	7	47-56	9
	Cuban anchovy	3	52-63	5
	bigeye anchovy	2	60-69	5
	striped anchovy	1	47	1
	silver porgy	3	80-106	86
	silver jenny	3	73-95	54
	hairy blenny	1 1	77 111	99 36

TABLE H-22
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
13 AUGUST 1976 ^a

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0915-1700 (continued)	porkfish	1	57	6
	sailors choice	1	65	8
	silver perch	1	49	1
	dusky cardinalfish	1	38	1
1700-0100	no sample			

^a 16-hour sample resulting from mechanical difficulties.

TABLE H-23

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
27-28 SEPTEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0830	shrimp	17	9-17	27
		2	18-22	13
	blue crab	5	54-69	77
		7	73-91	216
	bay anchovy	23	29-55	19
0830-1700	striped anchovy	1	60	2
	shrimp	6	12-17	13
	blue crab	5	57-77	99
		4	82-100	219
	bay anchovy	330	40-59	458
	Cuban anchovy	58	57-66	125
	bigeye anchovy	10	51-71	34
	longnose anchovy	4	40-58	6
	silver anchovy	1	61	3
	tomtate	210	34-102	1038
	spotfin mojarra	6	45-63	15
	silver jenny	3	62-67	16
	silver porgy	1	115	53
	scaled sardine	4	29-60	10
		3	85-117	78
	Spanish sardine	3	83-121	52

TABLE H-23
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
27-28 SEPTEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0830-1700 (continued)	seaweed blenny	2	38-42	3
	oyster blenny	1	35	1
1700-0100	shrimp	2	13-14	4
	blue crab	2	76-87	71
	bay anchovy	209	31-59	292
	Cuban anchovy	7	59-64	14
	tomtate	6	43-71	28
	oyster blenny	2	36-38	3
	Atlantic bumper	1	22	1
	spotfin mojarra	1	63	5
	silver porgy	1	98	28

TABLE H-24
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
4-5 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700	blue crab	3	54-81	72
		1	104	84
	stone crab	1	41	24
	shrimp	1	18	5
	bay anchovy	51	48-56	66
	Cuban anchovy	2	46-64	4
	silver perch	1	48	2
1700-0100	shrimp	2	14-17	6
		4	19-23	31
	blue crab	1	74	25
	stone crab	1	28	6
	bay anchovy	350	47-62	538
	Cuban anchovy	14	40-63	30
	longnose anchovy	1	56	2
	silver anchovy	1	63	3
	Atlantic bumper	2	25-26	1
	tomtate	1	51	4
	eyed flounder	1	78	10
	Atlantic thread herring	1	49	2

TABLE H-24
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
4-5 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0915	shrimp	19	11-17	37
		1	21	7
	blue crab	2	75-79	62
	bay anchovy	52	45-57	80
	anchovy	1	26	1
	Atlantic bumper	1	21	1

TABLE H-25
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
11-12 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0915	shrimp	21 14	10-17 18-24	55 86
	blue crab	2 1	70-85 103	65 75
	stone crab	1	40	19
	bay anchovy	6	47-58	10
	Cuban anchovy	1	63	3
	sailors choice	1	46	3
	tomtate	1	fragment	-
	silver porgy	1	fragment	-
0915-1700	blue crab	4 2	78-96 106-120	192 237
	bay anchovy	588	45-62	866
	Cuban anchovy	301	38-65	308
	striped anchovy	4	46-52	4
	tomtate	2	91-98	45
	sailors choice	2	43-44	4
	twospot cardinalfish	1	46	3
	Atlantic moonfish	1	29	1
	Atlantic bumper	1	19	1
	silver jenny	1	45	3

TABLE H-25
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
11-12 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100	shrimp	50	9-18	173
		18	19-23	113
	blue crab	4	72-97	172
	stone crab	1	49	21
	bay anchovy	81	47-58	106
	Cuban anchovy	25	40-65	19
	Atlantic moonfish	9	28-34	9
	silver jenny	4	41-84	24
	tomtate	2	46-75	13
	Atlantic cutlassfish	2	64-70	1
	silver perch	1	33	1
	bay whiff	1	74	8

TABLE H-26
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
14-15 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	209	8-17	330
		22	18-31	267
	blue crab	6	48-68	61
		18	71-100	711
	Cuban anchovy	7	60-64	18
	bay anchovy	3	53	5
	Atlantic moonfish	6	27-34	7
	filefish	5	20-33	5
	sand drum	3	27-31	2
	silver perch	3	39-40	4
	Atlantic bumper	2	23-25	1
	lined sole	2	51-59	16
	whiff	1	112	28
	batfish	1	46	3
	pipefish	1	262	8
	trunkfish	1	37	6
	bandtail puffer	1	56	5
	silver jenny	1	60	4
	dusky cardinalfish	1	40	2

TABLE H-26
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
14-15 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700	shrimp	6	13-16	17
		8	19-29	66
		4	30-38	122
	blue crab	9	58-89	249
		9	90-109	587
	Cuban anchovy	164	37-70	239
	bay anchovy	37	34-60	67
	striped anchovy	10	52-60	16
	bigeye anchovy	1	65	3
	anchovy	1	22	1
	Atlantic bumper	5	24-28	2
	Atlantic moonfish	4	31-35	4
	lookdown	2	69-72	22
	sand drum	3	51-61	9
	silver perch	3	28-41	3
	bank cusk-eel	3	212-231	266
	silver jenny	2	35-56	6
	surgeonfish	1	29	1
	cardinalfish	1	38	2
	bluelip parrotfish	1	50	3

TABLE H-26
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
14-15 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	planehead filefish	1	19	1
	jack	1	26	1
	blenny	1	62	7
	lined sole	1	64	10
	inshore lizardfish	1	292	268
1700-0100	shrimp	34 11	8-17 18-31	57 102
	blue crab	9 4	59-89 92-102	264 244
	silver perch	19	31-46	29
	Cuban anchovy	14	41-66	27
	bay anchovy	8	48-58	12
	anchovy	2	53-58	3
	Atlantic moonfish	13	33-39	17
	bank cusk-eel	2 8	153-167 188-211	55 494
	Atlantic bumper	6	22-26	2
	filefish	5	20-35	4
	bandtail puffer	4	51-60	20

TABLE H-26
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
14-15 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	Atlantic cutlassfish	3	61-97	1
	silver jenny	2	96-107	55
	tomtate	2	50-57	7
	lined seahorse	2	60-73	3
	spotted whiff	1	97	6
	whiff	2	76-106	25
	batfish	1	36	1
	lesser electric ray	1	96	16
	lookdown	1	19	1
	sand drum	1	31	1
	lane snapper	1	30	1
	cardinalfish	1	42	2
	sargassumfish	1	56	12
	lined sole	1	65	11
	trunkfish	1	114	72

TABLE H-27
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
18-19 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	18	8-17	12
	blue crab	3	23-39	6
		1	102	80
	Atlantic bumper	69	21-37	21
	Atlantic moonfish	14	24-39	16
	Cuban anchovy	16	31-69	29
	bay anchovy	9	50-60	13
	anchovy	4	24-63	3
	Atlantic cutlassfish	3	93-96	1
	bank cusk-eel	2	113-195	59
	batfish	2	45-48	7
	silver perch	2	36-40	3
	tomtate	2	61-80	18
	Spanish sardine	1	34	1
	striped mojarra	1	54	4
	planehead filefish	1	35	2
	cardinalfish	1	36	1
	silver jenny	1	52	3
	guaguanche	1	47	1

TABLE H-27
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
18-19 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700	shrimp	5	8-18	9
		1	30	21
	blue crab	1	99	66
	stone crab	1	48	35
	Cuban anchovy	82	38-67	123
	striped anchovy	56	30-56	20
	bay anchovy	40	50-58	65
	Atlantic bumper	67	17-45	22
	Atlantic moonfish	7	28-40	9
	sand drum	4	33-53	7
	planehead filefish	3	24-35	4
	silver perch	2	40-43	3
	Atlantic cutlassfish	2	96-99	1
	bank cusk-eel	2	109-192	53
	bandtail puffer	1	45	2
	lined seahorse	1	131	10
	gray triggerfish	1	59	10
	naked sole	1	64	30

TABLE H-27
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
18-19 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	Florida pompano	1	183	159
	lookdown	1	26	1
	silver jenny	1	72	9
	striped mojarra	1	40	2
	guaguanche	1	48	1
1700-0100	shrimp	67	8-17	77
		12	18-25	72
	rock shrimp	1	9	1
	blue crab	2	29-30	2
		12	52-88	289
		3	100-103	208
	Atlantic bumper	33	20-42	11
	Atlantic moonfish	17	27-45	17
	Cuban anchovy	14	36-69	22
	bay anchovy	11	49-58	14
	anchovy	1	35	1
	sand drum	6	31-39	5
	Atlantic thread herring	5	33-56	4
	bank cusk-eel	4	116-175	99

TABLE H-27
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
18-19 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	lesser electric ray	3	91-107	46
	spotted whiff	3	89-93	59
	bandtail puffer	3	49-58	9
	silver perch	2	32-46	3
	Atlantic cutlassfish	2	100-102	1
	barbfish	2	43-45	6
	pipefish	1	254	6
	sea catfish	1	75	62
	northern searobin	1	51	2
	planehead filefish	1	23	1
	batfish	1	42	2
	lined seahorse	1	84	2
	guaguanche	1	43	1
	lookdown	1	65	7

TABLE H-28

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
21-22 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	76	9-17	70
		8	18-27	53
	rock shrimp	1	18	5
	blue crab	9	37-56	56
		7	60-88	179
		5	97-104	343
	stone crab	1	16	1
	Atlantic cutlassfish	224	78-146	111
	Atlantic bumper	124	22-40	52
	striped anchovy	57	27-59	19
	Cuban anchovy	53	29-72	87
	bay anchovy	19	44-59	25
	anchovy	76	15-27	8
	Atlantic moonfish	42	20-47	30
	lookdown	34	22-35	28
	silver jenny	13	37-66	51
	bank cusk-eel	5	60-92	20
		3	108-145	42
	polka-dot cusk-eel	2	72-83	7
		2	148-171	71

TABLE H-28
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
21-22 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900 (continued)	barbfish	5	36-48	17
	planehead filefish	3	24-28	2
	guaguanche	2	37-51	1
	silver perch	2	41-44	3
	lane snapper	2	17-30	1
	spotted spoon-nose eel	1	663	319
	Atlantic manta	1	119	38
	lesser electric ray	1	91	21
	southern puffer	1	151	97
	bandtail puffer	1	58	4
	sand drum	1	42	1
	Irish pompano	1	31	1
	Spanish sardine	1	85	7
	herring	1	27	1
	surgeonfish	1	26	1
	tomtate	1	42	1
	sailors choice	1	52	3
	barred blenny	1	52	4
	bandtooth conger	1	161	8

TABLE H-28
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
21-22 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700	blue crab	8	43-86	122
		6	94-102	361
	shrimp	6	8-17	7
		2	25-41	51
	Atlantic bumper	3435	16-75	1491
	striped anchovy	187	30-59	168
	bay anchovy	115	45-59	169
	Cuban anchovy	102	39-68	158
	bigeye anchovy	1	67	4
	flat anchovy	2	71-75	7
	anchovy	798	43-73	1215
	silver jenny	183	42-104	1550
	Atlantic moonfish	93	30-53	164
	tomtate	39	43-112	520
	Atlantic cutlassfish	25	83-130	13
	lookdown	19	23-45	24
		5	61-104	68
	Atlantic thread herring	16	34-44	14
	sand drum	9	27-51	11
	reef croaker	5	69-99	77

TABLE H-28
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
21-22 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	silver perch	3	38-49	4
	scaled sardine	5	81-119	86
	Spanish sardine	1	84	7
	planehead filefish	3	18-21	1
	sailors choice	2	62-71	17
	barbfish	1	35	2
		1	192	225
	leopard searobin	1	42	1
	twospot cardinalfish	1	41	2
	porkfish	1	64	8
	cero	1	85	5
	bluelip parrotfish	1	48	2
	southern stargazer	1	198	241
	scrawled cowfish	1	222	302
	guaguanche	1	40	1
	polka-dot cusk-eel	1	76	3
1700-0100	shrimp	35	5-12	14
		20	13-19	51

TABLE H-28
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
21-22 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	Atlantic bumper	58	22-70	26
	Atlantic cutlassfish	20	77-162	6
	Cuban anchovy	15	45-66	26
	bay anchovy	13	48-59	19
	striped anchovy	5	35-71	8
	anchovy	3	28-30	1
	Atlantic moonfish	4	26-45	3
	lookdown	4	26-78	11
	silver jenny	3	55-62	10
	sand drum	2	28-40	1
	planehead filefish	2	27-55	5
	bank cusk-eel	2	220-235	117
	polka-dot cusk-eel	1	84	3
	Atlantic thread herring	1	38	1
	surgeonfish	1	28	1
	lane snapper	1	37	1
	cardinalfish	1	60	4

TABLE H-28
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
21-22 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	black sea bass	1	83	7
	northern sennet	1	147	20
	bandtail puffer	1	79	11
	bay whiff	1	96	11

TABLE H-29
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
25-26 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	blue crab	6	53-74	95
		7	81-107	425
	stone crab	1	60	47
	shrimp	4	11-16	10
	Atlantic bumper	21	24-39	7
	bay anchovy	4	51-58	4
	anchovy	1	33	1
	reef croaker	3	39-41	3
		1	88	6
	silver jenny	2	36-45	2
	sargassumfish	1	25	1
	lookdown	1	41	2
	Atlantic cutlassfish	1	143	1
	tomtate	1	37	1
	planehead filefish	1	28	1
	flounder	1	15	1
0900-1700	blue crab	4	31-48	20
		7	77-113	372
	silver jenny	35	43-96	225
	bay anchovy	3	51-56	5

TABLE H-29
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
25-26 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	Cuban anchovy	2	61	4
	striped anchovy	1	58	2
	Atlantic moonfish	3	40-42	5
	lookdown	1	37	2
	silver perch	3	46-52	8
	reef croaker	2	42-48	4
	sand drum	2	46-57	5
	lined seahorse	2	78-116	13
	sailors choice	1	48	3
	Atlantic bumper	1	28	1
	trunkfish	1	42	6
	barbfish	1	164	166
	doctorfish	1	26	1
	planehead filefish	1	34	2
1700-0100	blue crab	1	31	3
		6	61-92	217
	shrimp	4	16-19	15

TABLE H-29
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
25-26 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	Atlantic bumper	51	22-36	18
	Cuban anchovy	4	47-62	6
	bay anchovy	2	54	3
	Atlantic cutlassfish	3	129-158	4
	Atlantic moonfish	3	33-38	3
	lookdown	2	26-29	2
	lesser electric ray	2	84-91	33
	cardinalfish	2	34-43	4
	chain pipefish	1	225	5
	parrotfish	1	76	10
	silver jenny	1	42	2
	silver perch	1	41	2
	sand drum	1	35	1
	sailors choice	1	42	2

TABLE H-30
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
28-29 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	3	8-14	4
		5	16-19	24
	blue crab	1	32	2
		2	73-75	62
	stone crab	1	35	14
	bank cusk-eel	2	220-229	164
	tomtate	2	63-91	26
	Atlantic bumper	1	47	2
	silver jenny	1	55	4
	high-hat	1	51	3
	lined sole	1	63	10
	bay anchovy	1	51	1
	Cuban anchovy	1	52	1
	sand perch	1	77	8
0900-1700	tomtate	1	65	6
	Atlantic bumper	1	35	1
	Atlantic moonfish	1	41	2
	Cuban anchovy	1	58	2
	red drum	1	31	1

TABLE H-30
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
28-29 OCTOBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100	shrimp	1 4	8 15-17	1 9
	Cuban anchovy	2	52-60	3
	lesser electric ray	1 1	92 162	10 52
	bank cusk-eel	1	217	63
	Atlantic bumper	1	70	5
	sand drum	1	36	1

TABLE H-31
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
1-2 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	52	7-17	33
		6	18-27	32
		3	30-42	81
	blue crab	4	31-50	16
		10	61-87	273
		4	106-111	309
	Atlantic bumper	22	22-52	14
	sand drum	18	26-43	10
	Atlantic cutlassfish	17	127-167	24
	Atlantic moonfish	14	23-48	13
	bay anchovy	8	48-58	9
	striped anchovy	7	34-53	4
	Cuban anchovy	5	32-52	3
	flat anchovy	1	79	5
	anchovy	7	29-35	2
	bank cusk-eel	3	99-139	50
		3	167-192	144
	red drum	4	38-46	5
	black drum	2	25	1
	silver perch	1	37	1
	lookdown	2	22-25	1
	jack	1	25	1

TABLE H-31
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
1-2 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900 (continued)	spot	1	158	98
	lesser electric ray	2	84-91	21
	barbfish	2	49-59	13
	orangespotted filefish	1	66	9
	spotted whiff	1	105	21
	sailors choice	1	60	6
	pygmy sea bass	1	41	2
	silver jenny	1	57	4
	doctorfish	1	29	1
	guaguanche	1	47	1
	chain pipefish	1	116	1
0900-1700	shrimp	1	39	35
	blue crab	5	51-88	120
		5	97-111	361
	Atlantic cutlassfish	2	134-142	2
	sand drum	2	29-33	1
	black drum	1	31	1
	red drum	1	37	1
	spot	1	164	96
	tomtate	1	40	1

TABLE H-31
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
1-2 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	Atlantic bumper	1	35	1
	Atlantic moonfish	1	27	1
	lookdown	1	33	1
	striped anchovy	1	52	1
	Atlantic thread herring	1	60	3
	bank cusk-eel	1	94	5
1700-0100	shrimp	40	8-16	53
		3	20-37	53
	blue crab	3	34-42	8
		10	65-85	278
		3	91-118	203
	Atlantic moonfish	20	21-47	24
	Atlantic bumper	8	29-51	8
	bay whiff	8	75-92	86
	sand drum	7	25-34	3
	black drum	3	31-32	3
	Atlantic cutlassfish	6	149-184	15
	Cuban anchovy	8	30-66	13
	striped anchovy	4	32-56	3
	bay anchovy	3	51-54	4

TABLE H-31
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
1-2 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	Atlantic thread herring	1	33	1
	guaguanche	3	63-72	7
	bank cusk-eel	1	80	3
		1	243	103
	scrawled cowfish	2	119-143	203
	cardinalfish	2	41-42	5
	sand perch	1	49	2
	blackcheek tonguefish	1	127	75
	dusky flounder	1	145	45
	chain pipefish	1	229	5
	pipefish	1	217	7
	palespotted eel	1	255	7
	lesser electric ray	1	132	39
	bandtail puffer	1	102	16
	bluestriped grunt	1	44	2
	reef croaker	1	92	17
	spotted soapfish	1	89	17
	silver jenny	1	fragment	fragment
	planehead filefish	1	39	2
	bluespotted cornetfish	1	132	1

TABLE H-32

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
4-5 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	56	8-19	85
		8	30-39	207
	blue crab	3	40-58	26
		14	60-86	413
		8	95-117	635
	Atlantic moonfish	9	27-50	14
	Atlantic bumper	8	37-74	20
	lookdown	3	33-46	6
	sand drum	9	32-39	7
	red drum	1	42	1
	black drum	1	31	1
	silver perch	1	51	3
	spot	2	150-164	184
	bay anchovy	7	52-59	11
	Cuban anchovy	5	35-65	7
	flat anchovy	1	78	5
	anchovy	1	36	1
	Atlantic thread herring	2	50-61	5
	Spanish sardine	1	fragment	fragment
	silver jenny	2	36-67	9

TABLE H-32
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
4-5 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900 (continued)	guaguanche	2	54-76	6
	lined seahorse	2	97-124	18
	chain pipefish	1	177	2
	opossum pipefish	1	86	1
	trunkfish	1	21	1
	bank cusk-eel	1	108	7
		1	194	51
	cusk-eel	1	40	1
	planehead filefish	2	34-40	5
	filefish	1	46	4
	triggerfish	1	27	1
	Atlantic cutlassfish	1	87	4
		1	fragment	fragment
	bluespotted cornetfish	1	115	1
	tomtate	1	60	5
	jack	1	30	1
	spottedfin tonguefish	1	98	4
	spotted whiff	1	101	17
	lined sole	1	60	9
	eel (<i>Ophichthus</i> sp.)	1	286	17
	inshore lizardfish	1	340	411

TABLE H-32
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
4-5 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900 (continued)	barbfish	1	57	7
	dwarf sand perch	1	113	25
	lane snapper	1	49	3
0900-1700	blue crab	4	25-58	27
		12	65-89	414
		14	90-111	982
	shrimp	1	9	1
		2	30-34	55
	Atlantic bumper	26	28-66	55
		7	73-106	70
	silver jenny	8	57-96	103
	Cuban anchovy	5	40-69	12
	bay anchovy	4	46-53	6
	flat anchovy	1	73	5
	Atlantic thread herring	3	40-45	3
	Spanish sardine	2	113-128	44
	tomtate	4	49-86	33
	grunt	1	74	12
	porkfish	2	93-96	58
	planehead filefish	2	34-46	8
		1	241	494

TABLE H-32
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
4-5 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	barbfish	1	66	18
		1	168	192
	lined sole	2	79-88	52
	sand drum	2	33-34	2
	black drum	1	27	1
	silver perch	1	44	2
	high-hat	1	68	7
	lookdown	1	102	38
	southern stargazer	1	184	234
1700-0100	shrimp	32	7-19	71
		3	31-36	76
	blue crab	3	45-52	22
		4	82-109	300
	Atlantic bumper	12	24-40	9
	Atlantic moonfish	8	24-38	8
	lookdown	1	28	1
	silver jenny	5	58-65	34
	bay anchovy	5	49-56	9
	Cuban anchovy	1	47	1
	sand drum	5	31-38	4
	silver perch	2	45-48	5

TABLE H-32
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
4-5 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	crevalle jack	1	31	1
	planehead filefish	2	25-41	5
	guaguanche	1	78	4
	bank cusk-eel	1	187	54
	Atlantic cutlassfish	1	179	3
	chain pipefish	1	165	2
	bay whiff	1	95	19
	lined sole	1	104	54
	barbfish	1	54	8
	dwarf sand perch	1	83	11
	Atlantic midshipman	1	113	23
	Spanish sardine	1	124	26
	Atlantic thread herring	1	43	2

TABLE H-33

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
8-9 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	blue crab	4	31-59	27
		2	72-89	73
	shrimp	1	16	3
	rock shrimp	1	5	1
	Cuban anchovy	2	33-48	2
	striped anchovy	1	60	2
	Atlantic bumper	2	26-30	1
	Atlantic moonfish	1	35	1
	lookdown	1	38	2
	jack	1	32	1
	silver jenny	1	65	7
	bluelip parrotfish	1	118	49
	silver perch	1	44	2
	red drum	1	37	1
	black drum	1	31	1
	high-hat	1	91	17
	guaguanche	1	89	6
	lined seahorse	1	128	8

TABLE H-33
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
8-9 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700	blue crab	1 6	54 75-98	12 297
	Atlantic bumper	4	26-39	3
	Cuban anchovy	3	36-45	2
	striped anchovy	3	26-35	1
	silver perch	1	47	2
	bandtail puffer	1	94	18
1700-0100	blue crab	1 9 1	32 67-86 114	3 311 126
	stone crab	1	39	21
	shrimp	3	10-17	10
	Atlantic bumper	6	28-45	5
	Atlantic moonfish	2 1	28 fragment	2 fragment
	tomtate	2	62-78	20
	Atlantic cutlassfish	1 1	232 fragment	7 fragment
	Atlantic thread herring	2	46-48	3
	planehead filefish	2	42-48	7
	black drum	2	30-32	2

TABLE H-33
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
8-9 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	red drum	1	41	2
	silver perch	1	55	4
	bluespotted searobin	1	249	361
	bank cusk-eel	1	231	97
	bandtail puffer	1	84	16
	sailors choice	1	45	2
	silver jenny	1	69	9
	lane snapper	1	37	2
	Cuban anchovy	1	fragment	fragment
	jawfish	1	59	4
	lined sole	1	57	9
	flounder (<i>B. robinsi</i>)	1	56	4
	spotted whiff	1	94	16
	bay whiff	1	82	10

TABLE H-34
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
11-12 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	3	8-14	4
		1	20	8
		1	41	41.
	blue crab	1	43	5
		2	71-87	84
	Atlantic cutlassfish	4	114-168	6
		8	175-227	27
		4	fragment	fragment
	Atlantic bumper	11	27-49	13
		1	77	9
	Atlantic moonfish	4	26-42	6
	lookdown	2	30-48	5
	black drum	7	26-41	8
	red drum	1	43	2
	sand drum	1	42	1
	bay anchovy	3	52-60	6
	Cuban anchovy	3	35-62	4
	striped anchovy	1	41	1
	Atlantic thread herring	1	40	1
	bank cusk-eel	1	86	4
	barbfish	1	53	6

TABLE H-34
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
11-12 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700	blue crab	4	76-98	187
	Atlantic bumper	53 1	30-106 147	190 63
	Atlantic moonfish	2 3	44-45 83-93	7 71
	lookdown	2	36-60	7
	tomtate	28	49-95	336
	sailors choice	1	52	4
	striped anchovy	24	37-59	39
	bay anchovy	16	49-62	29
	Cuban anchovy	10	40-69	19
	flat anchovy	8	77-89	48
	bigeye anchovy	1	69	4
	Atlantic thread herring	14	36-58	24
	Atlantic cutlassfish	4	121-210	12
	guaguanche	3	77-84	15
	silver jenny	3	60-97	37
	planehead filefish	2 1	192-210 242	608 552
	black drum	3	32-35	4

TABLE H-34
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT.
11-12 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	red drum	2	36	2
	sand drum	1	32	1
	black grouper	1	118	38
	twospot cardinalfish	1	54	5
	barbfish	1	209	311
	smooth butterfly ray	1	588	2043
1700-0100	blue crab	2	76-87	79
	shrimp	1	9	1
		1	38	47
	Atlantic bumper	16	27-55	23
	Atlantic moonfish	6	27-43	10
	lookdown	1	39	3
	Atlantic cutlassfish	6	184-211	29
	striped anchovy	4	37-56	5
	Cuban anchovy	2	33-51	2
	Atlantic thread herring	2	38-45	3
	black drum	3	23-36	3
	red drum	2	36-40	3
	silver perch	1	45	2

TABLE H-34
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
11-12 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	tomtate	2	48-51	7
	southern puffer	1	104	40
	bandtail puffer	1	49	4
	flounder	1	61	5
	bull pipefish	1	305	15

TABLE H-35

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
14-15 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	4	9-18	7
	Atlantic cutlassfish	10 4	196-242 fragment	54 fragment
	Atlantic bumper	10	27-42	7
	Cuban anchovy	5	34-48	3
	bay anchovy	4	51-58	6
	anchovy	5	25-34	1
	black drum	1	28	1
	sargassumfish	1	33	2
	southern stargazer	1	135	97
0900-1700	blue crab	1 5	45 76-97	5 226
	Atlantic bumper	196 2	25-56 62-75	136 12
	Atlantic moonfish	10	33-68	31
	lookdown	2	42-48	6
	Cuban anchovy	20	36-61	21
	bay anchovy	13	50-60	18
	striped anchovy	12	40-75	21
	longnose anchovy	3	54-55	4
	bigeye anchovy	1	55	2

TABLE H-35
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
14-15 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	anchovy	172	28-43	48
	Atlantic thread herring	26	36-50	30
	Spanish sardine	3	44-49	3
	silver porgy	17	98-140	1177
	tomtate	11	34-67	44
		3	91-98	61
	sailors choice	2	53-69	11
		9	104-155	517
	porkfish	10	86-136	433
	black margate	2	125-147	167
	Atlantic cutlassfish	1	120	1
		2	fragment	fragment
	planehead filefish	1	50	5
		1	247	510
	high-hat	3	72-76	28
		1	126	47
	black drum	2	33-39	3
	sand drum	1	48	2
	silver perch	1	47	2
	seaweed blenny	3	36-43	3
	oyster blenny	3	33-65	8
	barred blenny	1	48	3

TABLE H-35
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
14-15 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	blenny (<i>Labrisomus</i> sp.)	1	107	31
	goby	1	38	1
	twospot cardinalfish	1	49	3
	cardinalfish	2	38-66	11
	bank cusk-eel	1	258	111
	southern stargazer	1	138	88
	rock sea bass	1	41	1
	lantern bass	1	37	1
	barbfish	1	42	3
	silver jenny	1	41	1
1700-0100	shrimp	5	9-19	14
	blue crab	2	84-116	131
	Atlantic bumper	9	25-47	7
	Atlantic moonfish	1	31	1
	bay anchovy	1	61	2
		1	fragment	fragment
	Cuban anchovy	3	32-47	2
	striped anchovy	2	38-54	2
	anchovy	19	31-37	6

TABLE H-35
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
14-15 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	Atlantic cutlassfish	4 2	181-217 fragment	17 fragment
	seatrout	5	31-52	6
	silver perch	4	38-53	8
	silver jenny	2	48-52	4
	batfish	1	55	4
	parrotfish	1	78	12
	twospot cardinalfish	1	48	3
	sailors choice	1	151	94
	tomtate	1	62	7
	Atlantic thread herring	1	38	1
	Spanish sardine	1	118	21

TABLE H-36

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
22-23 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	blue crab	1	57	15
		2	84-96	130
	shrimp	1	fragment	fragment
	Atlantic cutlassfish	10	225-295	107
	Atlantic bumper	2	37-43	3
	anchovy	2	33-37	1
	silver jenny	1	40	2
	planehead filefish	1	55	7
	barbfish	1	109	44
	silver perch	1	46	2
	tomtate	1	56	5
0900-1700	Atlantic cutlassfish	46	212-307	375
	Atlantic bumper	26	35-65	59
	Atlantic moonfish	1	63	6
	bay anchovy	3	55-58	4
	anchovy	10	28-41	4
	silver perch	4	45-50	8
	tomtate	1	57	4
	porkfish	1	76	14

TABLE H-36
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
22-23 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100	shrimp	4	12-17	14
		4	18-21	24
	blue crab	2	53-65	25
		2	93-101	140
	Atlantic cutlassfish	2	160-201	7
		7	223-280	72
		3	fragment	fragment
	Atlantic bumper	7	29-40	7
	bank cusk-eel	2	42-46	3
	seatrout	2	50-54	6
	silver perch	2	44-50	5
	cardinalfish	2	38-44	5
	bay anchovy.	2	55-56	3
	Cuban anchovy	2	61-67	5
	striped anchovy	1	32	1
	anchovy	1	30	1
	sailors choice	1	52	4
	barbfish	1	57	8
	planehead filefish	1	58	7
	spotted whiff	1	114	25

TABLE H-37

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
23-24 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100	blue crab	6	57-84	157
		5	94-105	384
	shrimp	2	9-10	2
	Atlantic cutlassfish	3	232-296	28
		4	fragment	fragment
	Cuban anchovy	5	34-42	3
	bay anchovy	1	48	1
	bigeye anchovy	1	68	4
	anchovy	12	29-39	34
	Atlantic bumper	2	41-47	3
	Atlantic moonfish	1	56	4
	chain pipefish	1	311	12
	spotfin mojarra	1	39	1
	planehead filefish	1	67	10
	Atlantic thread herring	1	41	1
	French grunt	1	48	3
	oyster blenny	1	28	1
	bay whiff	1	fragment	fragment

TABLE H-37
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
23-24 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	6	9-16	9
		6	18-22	35
	blue crab	4	34-43	15
		2	71-75	55
		3	100-108	206
	Cuban anchovy	6	34-46	3
	anchovy	10	31-41	4
	Atlantic bumper	3	37-42	4
	Atlantic cutlassfish	1	270	12
		1	fragment	fragment
	tomtate	1	48	2
	sand drum	1	36	1
	reef croaker	1	84	13
	silver jenny	1	47	2
0900-1700	blue crab	1	98	78
		1	134	174
	stone crab	1	27	3
	shrimp	1	8	1
	Cuban anchovy	4	33-35	2
	anchovy	2	33	1
	Atlantic cutlassfish	2	249-289	19
	Atlantic bumper	1	48	2

TABLE H-38

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
29-30 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0920	blue crab	3	94-106	222
	stone crab	1	49	38
	shrimp	1	9	1
		1	25	11
	rock shrimp	1	9	1
	Atlantic cutlassfish	4	250-297	45
		1	fragment	fragment
	Atlantic bumper	2	37-52	3
	bay anchovy	1	54	1
	silver jenny	1	46	2
	tomtate	1	52	3
	chain pipefish	1	251	7
0920-1700	shrimp	1	19	5
	bluestriped grunt	1	84	18
	anchovy	1	32	1
	Atlantic cutlassfish	1	fragment	fragment
	Atlantic bumper	1	fragment	fragment
1700-0100	shrimp	2	8-12	1
	blue crab	2	87-108	133
	Atlantic cutlassfish	2	224-260	12
		5	287-343	65

TABLE H-38
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
29-30 NOVEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	bay anchovy	4	50-60	5
	Atlantic thread herring	1	45	1
	sailors choice	1	56	5
	Atlantic bumper	1	35	1
	silver perch	1	fragment	fragment
	pinfish	1	fragment	fragment

TABLE H-39

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
2-3 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	8	9-17	11
		5	18-25	30
		1	31	23
	blue crab	10	65-87	294
		4	102-114	327
	bay anchovy	1	53	1
	bigeye anchovy	1	68	3
	striped anchovy	1	41	1
	Spanish sardine	1	91	10
	chain pipefish	1	301	15
	Atlantic bumper	1	60	4
	bay whiff	1	88	15
	planehead filefish	1	61	8
	blenny (<i>Blennius</i> sp.)	1	fragment	fragment
0900-1700	blue crab	7	56-85	224
		8	93-114	664
	Atlantic bumper	7	35-58	17
	Atlantic thread herring	7	41-46	9
	tomtate	2	55-59	9
	bandtail puffer	1	67	9

TABLE H-39
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
2-3 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100	blue crab	2	28-42	9
		5	59-88	164
		5	93-111	379
	shrimp	11	10-18	29
		4	20-24	35
		17	17-41	fragments
	rock shrimp	1	9	1
	bay whiff	4	85-117	88
	lined sole	1	68	16
	croaker	1	25	1
	Atlantic bumper	1	fragment	fragment
	silver jenny	1	56	4
	bandtail puffer	1	74	11
	Atlantic thread herring	1	62	4

TABLE H-40
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
6-7 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700	blue crab	5	62-89	161
		6	95-105	419
	stone crab	1	44	26
	shrimp	4	10-17	13
	striped anchovy	11	76-90	68
	bay anchovy	7	51-57	12
	Cuban anchovy	7	37-53	6
	anchovy	3	34-36	1
	Atlantic bumper	3	40-81	13
		3	98-138	85
	Atlantic thread herring	3	46-52	5
	chain pipefish	2	150-174	3
		2	247-264	18
	silver jenny	2	45-64	9
	bandtail puffer	2	82-91	40
	lined sole	2	63-94	50
	spotted scorpionfish	1	178	302
	crevalle jack	1	140	82
	Atlantic spadefish	1	44	7
	silver perch	1	98	23
	high-hat	1	74	10

TABLE H-40
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
6-7 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	tomtate	1	101	33
	balloonfish	1	54	19
	planehead filefish	1	33	2
1700-0100	shrimp	243	9-21	474
		18	22-39	382
	rock shrimp	3	9-15	3
	blue crab	15	20-40	22
		10	56-88	315
		4	97-114	331
	striped anchovy	31	52-90	166
	Cuban anchovy	7	39-67	15
	bay anchovy	3	54-58	6
	flat anchovy	3	77-83	16
	anchovy	2	25-33	1
	Atlantic bumper	12	38-62	30
		5	72-94	47
	lined sole	6	66-78	95
	Atlantic thread herring	5	40-54	8
	silver jenny	3	49-56	10
	barbfish	3	37-67	16

TABLE H-40
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
6-7 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	Atlantic spadefish	2	40-53	13
	bay whiff	2	86-100	32
	offshore tonguefish	2	122-124	29
	chain pipefish	2	269-270	19
	striped croaker	2	55-95	22
	croaker	1	26	1
	sand drum	1	43	1
	lesser electric ray	1	93	15
	planehead filefish	1	67	13
	scrawled cowfish	1	61	15
	greater soapfish	1	118	40
	spotted soapfish	1	78	12
	barred cardinalfish	1	46	3
	bighead searobin	1	35	1
	lined seahorse	1	51	1
0100-0900	shrimp	259	7-18	245
		2	23-25	20
	rock shrimp	2	5-9	1
	blue crab	14	22-51	38
		6	60-85	178
		5	90-112	375

TABLE H-40
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
6-7 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900 (continued)	striped anchovy	40	70-90	215
	bay anchovy	6	51-55	10
	Cuban anchovy	5	35-68	10
	flat anchovy	3	80-83	16
	Atlantic bumper	6	55-64	21
	Atlantic midshipman	2	55-63	8
		3	108-154	126
	guaguanche	3	106-142	52
	southern puffer	3	124-185	410
	lesser electric ray	3	88-188	144
	flounder (<i>B. robinsi</i>)	2	68-70	15
	bay whiff	2	87-108	39
	lined sole	1	62	10
	spottedfin tonguefish	1	122	21
	Atlantic thread herring	2	44-86	10
	tomtate	2	57-92	24
	lined seahorse	2	51-57	1
	scrawled cowfish	1	142	123
	reef croaker	1	80	12
	sand drum	1	43	2

TABLE H-40
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
6-7 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900 (continued)	silver jenny	1	68	8
	bull pipefish	1	95	1
	planehead filefish	1	30	1
	snake eel	1	327	27

TABLE H-41

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
9-10 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	54	6-21	104
		28	26-40	750
	blue crab	2	32-37	5
		3	82-105	161
	Atlantic bumper	38	42-90	174
	striped anchovy	1	42	1
		11	73-99	65
	flat anchovy	2	80-83	12
	bay anchovy	1	55	2
	bigeye anchovy	1	82	6
	silver jenny	2	42-64	9
	striped croaker	2	86-87	31
	sand drum	1	41	2
	sea catfish	1	72	5
		1	157	55
	lined seahorse	1	44	1
	bull pipefish	1	313	14
	chain pipefish	1	222	4
	sargassumfish	1	41	5
	spottedfin tonguefish	1	120	17
	spotted whiff	1	105	23

TABLE H-41
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
9-10 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900 (continued)	sooty eel	1	660	49
	southern puffer	1	123	70
	dusky cardinalfish	1	41	2
	leopard searobin	1	91	12
	bighead searobin	1	56	4
0900-1700	blue crab	2	28-48	7
		3	94-117	214
	stone crab	1	31	10
	shrimp	3	fragments	fragments
	striped anchovy	28	72-94	172
	bay anchovy	4	53-56	6
	Atlantic bumper	21	46-91	189
		6	92-126	107
	Atlantic moonfish	4	47-66	15
	silver jenny	4	76-89	50
	Atlantic thread herring	4	49-51	6
	sand drum	4	31-41	3
	striped croaker	1	87	15
	Atlantic spadefish	3	70-127	162
	harvestfish	2	55-60	20

TABLE H-41
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
9-10 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	southern stargazer	1	211	452
	northern sennet	1	136	13
	southern puffer	1	95	44
1700-0100	shrimp	43	8-17	50
		11	18-30	89
	rock shrimp	2	10-11	2
	blue crab	2	34-43	10
		4	86-96	207
	Atlantic bumper	5	39-67	18
		5	80-94	58
	striped anchovy	10	69-84	55
	flat anchovy	2	80-82	12
	bigeye anchovy	2	64-65	7
	bay anchovy	1	53	2
	Atlantic thread herring	3	48-50	7
	barbfish	3	44-73	16
	plumed scorpionfish	1	94	12
	bandtail puffer	2	63-93	32
	offshore tonguefish	2	124-127	43
	bay whiff	1	132	45

TABLE H-41
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
9-10 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1700-0100 (continued)	sea catfish	1	186	82
	harvestfish	1	67	14
	lined seahorse	1	52	1
	jawfish	1	53	3
	Atlantic moonfish	1	54	4
	sand drum	1	30	1
	silver perch	1	41	2
	planehead filefish	1	65	12
	leopard searobin	1	72	6
	spotted soapfish	1	60	7

TABLE H-42

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT,
14-15 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	11	8-13	9
		9	18-37	138
	rock shrimp	1	10	1
	blue crab	4	27-58	23
		5	87-106	392
	Atlantic bumper	5	63-66	26
	striped anchovy	1	79	6
		1	fragment	fragment
	chain pipefish	1	299	15
	lined seahorse	1	65	1
	lane snapper	1	35	1
	oyster blenny	1	56	5
0900-1700	blue crab	2	52-78	38
	shrimp	1	38	41
	striped anchovy	9	76-92	54
	bigeye anchovy	1	66	3
	Cuban anchovy	1	54	1
	bay anchovy	1	fragment	fragment
	planehead filefish	2	62-77	26
	silver perch	1	52	4

TABLE H-42
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
14-15 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	Atlantic bumper	1	fragment	fragment
	bay whiff	1	fragment	fragment
0900-0100	shrimp	14	8-14	17
		4	19-25	43
	striped anchovy	3	76-82	18
	bay anchovy	3	52	4
	silver perch	3	42-89	23
	silver jenny	2	47-61	7
	planehead filefish	1	87	28
	dusky cardinalfish	1	32	1

TABLE H-43

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
16-17 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	27	9-17	41
		7	18-25	52
	rock shrimp	1	11	1
	blue crab	3	25-40	9
		3	63-78	77
		3	89-106	179
	bay anchovy	3	53-55	5
	striped anchovy	1	33	1
		1	75	6
	Cuban anchovy	2	63-64	5
	flat anchovy	1	78	4
	Atlantic bumper	2	53-62	7
		1	95	13
	croaker	3	26-27	1
	striped croaker	1	fragment	fragment
	speckled worm eel	1	334	18
	leopard searobin	1	126	32
	Atlantic spadefish	1	45	6
	planehead filefish	1	60	8
	chain pipefish	1	249	8
	offshore tonguefish	1	103	9

TABLE H-43
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
16-17 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900 (continued)	silver jenny	1	56	2
0900-1700	shrimp	4	21-39	104
	blue crab	2	102-114	176
	Atlantic bumper	16	39-78	79
	striped croaker	5	54-87	37
	bay anchovy	4	53-55	9
	striped anchovy	3	81-86	23
	Cuban anchovy	1	35	1
	tomtate	2	54-85	21
		1	113	47
	porkfish	1	121	71
	silver porgy	1	136	111
	twospot cardinalfish	1	56	5
	dusky cardinalfish	1	fragment	fragment
	sand drum	1	39	1
	silver jenny	1	54	4
	lined sole	1	72	18
	oyster blenny	1	41	2
	hairy blenny	1	fragment	fragment

TABLE H-43
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
16-17 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	planehead filefish	1	94	35
	bluelip parrotfish	1	101	31
1700-0100	shrimp	21	9-17	21
		4	19-21	28
		1	37	29
	rock shrimp	1	7	1
	blue crab	10	26-34	14
		3	46-86	61
		3	106-117	225
	Atlantic bumper	3	52-63	14
	silver jenny	3	51-95	42
	bay anchovy	2	50-54	5
	striped anchovy	1	81	8
	Atlantic thread herring	2	fragments	fragments
	twospot cardinalfish	1	48	4
	bronze cardinalfish	1	43	4
	plumed scorpionfish	1	98	84
	leopard searobin	1	44	3

TABLE H-44

RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
20-21 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	4	8-11	4
		1	24	13
	blue crab	1	30	2
		1	77	32
	striped mullet	1	344	855
	barbfish	1	55	8
	jack	1	34	1
	bay anchovy	1	55	2
	silver jenny	1	43	3
0900-1700	shrimp	1	11	1
	Atlantic bumper	76	40-102	406
	striped croaker	6	49-67	26
	silver perch	2	103-105	52
	bay anchovy	2	53 55	4
	Atlantic thread herring	2	50-78	10
	scaled sardine	2	91-124	60
	harvestfish	2	60-77	36
	oyster blenny	1	43	2

TABLE H-44
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
20-21 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700 (continued)	planehead filefish	1	84	21
	vermilion snapper	1	76	12
1700-0100	blue crab	1	18	1
		6	68-94	272
	shrimp	4	9-17	9
		1	35	35
	Atlantic bumper	3	49-60	9
		1	102	15
	bay anchovy	3	49-57	5
	Atlantic thread herring	1	52	2
	silver jenny	1	46	2
	lined seahorse	1	109	11
	chain pipefish	1	143	1
	Atlantic cutlassfish	1	895	874
	porkfish	1	94	30

TABLE H-45
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
27-28 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700	blue crab	2	66-77	55
		1	108	62
	shrimp	1	9	1
		1	27	15
	Atlantic bumper	3	59-67	14
	scaled sardine	1	108	28
	planehead filefish	1	71	16
	striped croaker	1	55	4
1700-0100	shrimp	3	11-17	8
	blue crab	2	72-83	58
	Atlantic bumper	1	75	8
	sand drum	1	51	2
	planehead filefish	1	96	34
	spottedfin tonguefish	1	114	15
	offshore tonguefish	1	123	18
0100-0900	blue crab	4	33-38	11
		2	77-113	117
	shrimp	3	9-13	4
		2	24-27	27

TABLE H-45
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
27-28 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900 (continued)	Atlantic cutlassfish	1	793	466
	Atlantic thread herring	1	74	9
	barbfish	1	49	7
	striped croaker	1	63	6
	planehead filefish	1	72	12

TABLE H-46
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
28-29 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0900-1700	blue crab	1 2	46 69-71	6 46
	planehead filefish	2	33-72	17
	barbfish	1	69	12
	bull pipefish	1	296	15
1700-0100	shrimp	6 3	9-12 23-34	6 47
	rock shrimp	2	10-11	3
	blue crab	3 1 1	26-39 78 185	8 34 236
	Cuban anchovy	3	40-70	7
	Atlantic bumper	2	47-50	5
	silver jenny	1	79	15
	lined seahorse	1	116	9
	barbfish	1	172	216
	spotted whiff	1	111	34
	sole	1	120	67

TABLE H-46
(continued)
RESULTS OF IMPINGEMENT AT THE ST. LUCIE PLANT
28-29 DECEMBER 1976

Time	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0100-0900	shrimp	2	9-11	2
		1	32	20
	blue crab	1	103	81
	reef croaker	1	83	10

TABLE H-47
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 17-18 DECEMBER 1975

Station number ^a	Depth ^b	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
15	S	nothing collected	-	-	-
	B	bluefish	1	366	1400
		ladyfish	1	289	267
		lane snapper	1	201	254
		striped mojarra	2	217-278	807
		pigfish	1	182	181
		black drum	1	190	163
16	S	striped mullet	2	376-386	2960
	B	blue crab	2	170-175	693
		snook	1	475	1770
		crevalle jack	1	290	950
		sea catfish	1	230	- ^c
		Atlantic croaker	1	210	- ^c
		pinfish	1	160	137

^a Stations 13 and 14 established on 19 January 1976.

^b S = surface; B = bottom.

^c No weight (eaten by crabs).

TABLE H-48
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 18-19 DECEMBER 1975

Station number ^a	Depth ^b	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
15	S	nothing collected	-	-	-
	B	blue crab	1	98	77
		black drum	3	186-220	580
		striped mullet	2	269-289	860
		spot	1	286	705
		black margate	1	225	372
16	S	nothing collected	-	-	-
	B	black drum	1	269	479

^a Stations 13 and 14 established 19 January 1976.

^b S = surface; B = bottom.

TABLE H-49
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
6-7 JANUARY 1976

Station number ^a	Depth ^b	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
15	S	nothing collected	-	-	-
	B	blue crab	1	130	149
		striped mullet	3	270-300	1363
		crevalle jack	1	360	1048
		lane snapper	1	220	501
16	S	nothing collected	-	-	-
	B	blue crab	1	150	326
		stone crab	2	100-110	969
		horseshoe crab	1	240	1797
		black drum	1	- ^c	- ^c
		sea catfish	1	- ^c	- ^c
		black margate	1	220	387

^a Stations 13 and 14 established 19 January 1976.

^b S = surface; B = bottom.

^c Fragments (eaten by crabs).

TABLE H-50
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
19-20 JANUARY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	Atlantic bumper	2	129-164	415
		striped mullet	1	269	413
	B	Atlantic bumper	3	152-172	635
		striped mullet	2	422-445	529
		silver seatrout	1	302	475
14	S	nothing collected	-	-	-
	B	mantis shrimp	1	155	58
		striped mullet	1	162	409
		lane snapper	1	133	70
15	S	nothing collected	-	-	-
	B	sailors choice	2	198-201	469
		snook	1	400	846
		silver perch	1	195	239
16	S	nothing collected	-	-	-
	B	black margate	2	245-274	1433
		black drum	1	246	398

^a S = surface; B = bottom.

TABLE H-51
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 20-21 JANUARY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	striped mullet	1	289	496
		Atlantic bumper	1	198	136
	B	spot	2	235-247	794
		Atlantic bumper	2	200-205	299
		yellowfin menhaden	1	251	442
		barracuda	1	562	1760
14	S	yellowfin menhaden	1	244	416
	B	nothing collected	-	-	-
15	S	striped mullet	1	260	397
	B	blue crab	1	126	143
		black drum	2	205-224	477
		lane snapper	1	210	274
		black margate	1	268	793
		striped croaker	1	223	308
		pigfish	1	176	165
16	S	nothing collected	-	-	-

TABLE H-51
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
20-21 JANUARY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
16 (continued)	B	blue crab	3	133-161	729
		horseshoe crab	1	258	2930
		black margate	5	237-296	3476
		spot	3	200-211	804
		snook	1	485	2320
		sheepshead	1	240	570
		pinfish	1	181	210

^a S = surface; B = bottom.

TABLE H-52
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 4-5 FEBRUARY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
14	S	striped mullet	1	370	994
		Atlantic bumper	1	210	152
	B	striped mullet	1	270	400 ^b
15	S	nothing collected	-	-	-
	B	yellowfin menhaden	1	290	712
16	S	striped mullet	1	410	1175
		black drum	1	230	295
	B	striped mullet	1	390	1124
		black drum	1	300	678
		black margate	1	220	372
		pinfish	1	170	164

^a S = surface; B = bottom.

^b Estimated (eaten by crabs).

TABLE H-53
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 5-6 FEBRUARY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	tripletail	1	132	96
	B	nothing collected	-	-	-
14	S	yellowfin menhaden	1	300	729
	B	nothing collected	-	-	-
15	S	sheepshead	1	270	760
	B	nothing collected	-	-	-
16	S	blue crab	1	121	319
		black drum	1	284	600
		bluefish	1	300 ^b	400 ^b
	B	blue crab	1	160	325

^a S = surface; B = bottom.

^b Estimated (decomposed).

TABLE H-54
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 18-19 FEBRUARY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
14	S	nothing collected	-	-	-
	B	blue crab	2	120-122	225
		striped mullet	4	281-320	1897
		spot	3	270-305	1542
		black drum	1	250	332
		silver seatrout	1	350	535
		pigfish	1	177	195
		mojarra	1	- ^b	- ^b
15	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
16	S	nothing collected	-	-	-
	B	pinfish	1	171	185

^a S = surface; B = bottom.

^b Fragment (eaten by crabs).

TABLE H-55
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 19-20 FEBRUARY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	silver seatrout	1	338	561
	B	black drum	1	300	520
14	S	nothing collected	-	-	-
	B	spot	8	220-274	3292
		black drum	4	212-266	1172
		striped mullet	1	284	446
		black margate	1	196	303
15	S	nothing collected	-	-	-
	B	blue crab	1	120	115
		striped croaker	2	200-220	277
		pigfish	1	198	196
16	S	nothing collected	-	-	-
	B	black drum	1	300	520

^a S = surface; B = bottom.

TABLE H-56
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 3-4 MARCH 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	nothing collected	-	-	-
	B	Atlantic bumper	1	201	120
14	S	nothing collected	-	-	-
	B	striped mullet	1	303	551
15	S	striped mullet	1	270	400 ^b
		silver jenny	1	85	18
	B	nothing collected	-	-	-
16	S	nothing collected	-	-	-
	B	striped mullet	1	408	1297

^a S = surface; B = bottom.

^b Estimated (eaten by crabs).

TABLE H-57

INSHORE GILL NET COLLECTIONS AT ST. LUCIE
4-5 MARCH 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	striped mullet	1	305	545
	B	spot	4	240-250	1646
		black drum	1	300	646
14	S	nothing collected	-	-	-
	B	black drum	1	260	402
		crevalle jack	1	330	901
15	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
16	S	nothing collected	-	-	-
	B	blue crab	2	165-186	586

^a S = surface; B = bottom.

TABLE H-58
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 17-18 MARCH 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	nothing collected	-	-	-
	B	striped mullet	5	281-314	2460
		pigfish	3	190-204	579
		spot	2	245-248	689
		Atlantic croaker	1	266	300
14	S	nothing collected	-	-	-
	B	blue crab	2	101-149	444
		pigfish	6	182-197	1084
		Atlantic croaker	5	252-315	1636
		spot	3	242-282	1185
		striped mullet	1	298	536
		pinfish	1	190	202
15	S	nothing collected	-	-	-
	B	pigfish	4	192-204	839
		lane snapper	1	210	264

TABLE H-58
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
17-18 MARCH 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

^a S = surface; B = bottom.

TABLE H-59
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
18-19 MARCH 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	nothing collected	-	-	-
	B	blue crab	1	112	106
		Atlantic croaker	2	251-254	485
		pigfish	2	198-201	416
		lane snapper	1	224	287
		striped mullet	1	280	433
14	S	nothing collected	-	-	-
	B	Atlantic croaker	3	244-272	761
		pigfish	1	203	204
		barbfish	1	183	238
15	S	nothing collected	-	-	-
	B	striped mullet	2	293-299	1034
		Atlantic croaker	1	248	249
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

^a S = surface; B = bottom.

TABLE H-60
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 5-6 APRIL 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	blue crab	1	89	45
		crevalle jack	1	359	1171
	B	nothing collected	-	-	-
14	S	nothing collected	-	-	-
	B	blue crab	1	104	96
		black margate	1	265	760
		pigfish	1	192	185
		white mullet	1	291	488
15	S	yellowfin menhaden	2	306-313	1357
	B	blue crab	2	111-114	215
		Atlantic croaker	2	234-256	465
		lane snapper	1	219	302
16	S	nothing collected	-	-	-
	B	blue crab	1	128	138
		jewfish	1	308	900

TABLE H-60
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
5-6 APRIL 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
16 (continued)	B	black drum	1	262	531
		pinfish	1	178	183

^a S = surface; B = bottom.

TABLE H-61

INSHORE GILL NET COLLECTIONS AT ST. LUCIE
6-7 APRIL 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	swimming crab	1	86	71
		crevalle jack	1	333	867
	B	nothing collected	-	-	-
14	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
15	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

^a S = surface; B = bottom.

TABLE H-62
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 28-29 APRIL 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	white mullet	1	291	533
	B	blue crab	1	199	482
		lane snapper	3	208-224	948
		pigfish	1	201	226
			1	- b	- b
		spot	2	241-244	759
		Atlantic croaker	1	280	369
		black margate	1	302	1051
		jewfish	1	253	369
		black sea bass	1	208	284
		crevalle jack	1	362	1261
14		weakfish	1	254	241
	S	crevalle jack	1	316	783
	B	spot	1	248	418
15		Atlantic croaker	1	262	324
	S	nothing collected	-	-	-
	B	horse-eye jack	1	230	324

TABLE H-62
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
28-29 APRIL 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
16	S	black margate	1	199	270
	B	blue crab	1	152	301

^a S = surface; B = bottom.

^b Fragment (eaten by crabs).

TABLE H-63

INSHORE GILL NET COLLECTIONS AT ST. LUCIE
29-30 APRIL 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	white mullet	1	293	390
	B	blue crab	1	112	90
		speckled crab	1	110	89
		pinfish	2	178-180	349
		striped mullet	2	331-399	1642
		white mullet	1	310	542
		Atlantic croaker	1	283	471
		Atlantic bumper	1	201	132
		lane snapper	1	212	278
14	S	nothing collected	-	-	-
	B	striped mullet	2	321-342	1425
		Atlantic croaker	1	256	306
15	S	crevalle jack	1	319	852
	B	nothing collected	-	-	-
16	S	blue crab	1	99	69
		black margate	1	298	873

TABLE H-63
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
29-30 APRIL 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
16 (continued)	B	blue crab	1	134	206

^a S = surface; B = bottom.

TABLE H-64
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 19-20 MAY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
14	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
15	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

^a S = surface; B = bottom.

TABLE H-65
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 20-21 MAY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
14	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
15	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

^a S = surface; B = bottom.

TABLE H-66

INSHORE GILL NET COLLECTIONS AT ST. LUCIE
23-24 JUNE 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	nothing collected	-	-	-
	B	Atlantic bumper	1	250	250
14	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
15	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

^a S = surface; B = bottom.

TABLE H-67

INSHORE GILL NET COLLECTIONS AT ST. LUCIE
24-25 JUNE 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	Atlantic bumper	1	205	173
	B	nothing collected	-	-	-
14	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
15	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
16	S	nothing collected	-	-	-
	B	red drum	1	420	1302
		pigfish	1	199	185

^a S = surface; B = bottom.

TABLE H-68
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 19-20 JULY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	nothing collected	-	-	-
	B	Atlantic croaker	3	262-286	1108
		black margate	2	233-251	966
		lane snapper	1	256	462
		weakfish	1	273	324
		white mullet	1	288	476
		barbfish	1	145	121
14	S	nothing collected	-	-	-
	B	black margate	1	212	334
		planehead filefish	1	144	103
15	S	nothing collected	-	-	-
	B	blue crab	2	98-118	160
		lane snapper	1	217	310
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

^a S = surface; B = bottom.

TABLE H-69
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 20-21 JULY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	white mullet	1	295	515
	B	Atlantic croaker	3	259-294	1101
		black drum	1	324	791
		white mullet	1	299	502
		Atlantic bumper	1	145	55
14	S	white mullet	3	316-339	1892
		weakfish	1	312	479
	B	lane snapper	2	235-247	710
		Atlantic croaker	2	250-313	776
		weakfish	1	242	225
15	S	spiny lobster	1	162	280
		bighead searobin	1	225	226
		Gulf kingfish	1	304	408
		northern sennet	1	209	51
	B	nothing collected	-	-	-
16	S	white mullet	1	290	458

TABLE H-69
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
20-21 JULY 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
16 (continued)	B	black margate	1	235	410

^a S = surface; B = bottom.

TABLE H-70
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 16-17 AUGUST 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	blue runner	1	352	1006
	B	blue crab	1	113	85
		black drum	3	270-309	1733
		lane snapper	3	212-232	971
		white mullet	3	293-302	1678
		striped mullet	1	389	1204
		Atlantic croaker	2	263-320	989
		striped mojarra	1	153	103
			1	246	451
14	S	black drum	1	292	612
	B	blue crab	6	81-119	420
		lane snapper	5	220-251	2040
		Atlantic croaker	1	264	309
			1	- b	- b
		black drum	1	277	585
		sailors choice	1	195	213
15	S	nothing collected	-	-	-
	B	spot	1	284	577
		Atlantic croaker	1	301	480

TABLE H-70
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
16-17 AUGUST 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
15 (continued)	B	nurse shark	1	930	22700 ^c
16	S	nothing collected	-	-	-
	B	black drum	1	310	821

^a S = surface; B = bottom.

^b Fragment (eaten by crabs).

^c Estimated.

TABLE H-71
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 17-18 AUGUST 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	lane snapper	1	212	322
		spot	1	242	403
	B	lane snapper	2	239-240	828
		spot	1	236	367
		great barracuda	1	464	967
		sailors choice	1	159	127
		snook	1	- b	- b
14	S	silver jenny	1	91	18
	B	blue crab	1	107	79
		pinfish	1	205	301
		black margate	1	262	775
		pigfish	1	206	249
		lane snapper	1	247	455
		searobin	1	226	219
15	S	nothing collected	-	-	-
	B	blue crab	4	96-99	258
		lane snapper	2	198-247	699

TABLE H-71
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
17-18 AUGUST 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
15 (continued)	B	searobin	2	236-241	626
		sailors choice	1	187	192
		Atlantic croaker	1	297	496
		spot	1	237	416
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

^a S = surface; B = bottom.

^b Fragment (eaten by crabs).

TABLE H-72
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 20-21 SEPTEMBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	white mullet	3	262-301	1550
		porkfish	1	159	135
	B	shameface crab	2	125	500 ^b
		lane snapper	4	219-264	1816
		gray snapper	1	251	410
		weakfish	2	259-297	800 ^c
			1	346	654
		searobin	2	204-270	557
		striped mojarra	2	206-210	532
		planehead filefish	1	140	131
		Atlantic croaker	1	274	377
		Atlantic bumper	1	197	131
14	S	white mullet	4	263-297	1914
		ladyfish	3	353-380	1607
		crevalle jack	1	405	1588
		bluespotted searobin	1	233	286
		Spanish sardine	1	108	21
		sailors choice	1	132	69

TABLE H-72
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
20-21 SEPTEMBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
14 (continued)	B	blue crab	3	87-114	230
		lane snapper	2	215-219	650 ^c
		pinfish	1	204	227
		pigfish	1	211	249
15	S	nothing collected	-	-	-
	B	gray snapper	2	253-285	1145
		bluespotted searobin	1	234	289
		porkfish	1	152	115
16	S	white mullet	1	253	425
		black margate	1	228	485
	B	nothing collected	-	-	-

^a S = surface; B = bottom.

^b Estimated.

^c Estimated (eaten by crabs).

TABLE H-73
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 21-22 SEPTEMBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
13	S	Atlantic bumper	1	256	237
		pinfish	1	206	261
		sailors choice	1	197	209
	B	blue crab	1	102	73
		shameface crab	1	108	196
		lane snapper	2 1	209-213 - b	488 _b
		bluespotted searobin	2	229-244	511
		Atlantic spadefish	1	207	406
14	S	blue crab	1	105	76
		white mullet	1	319	564
		ladyfish	1	371	512
	B	pinfish	1	204	266
		striped mojarra	1	169	427
		great barracuda	1	494	995
		spotted scorpionfish	1	224	474
15	S	nothing collected	-	-	-

TABLE H-73
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
21-22 SEPTEMBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
15 (continued)	B	blue crab	1	95	60
		porkfish	2	- b	- b
		bluespotted searobin	1	255	316
		pinfish	1	200	228
		white mullet	1	821	546
		black drum	1	329	830
16	S	nothing collected	-	-	-
	B	black margate	1	302	857

^a S = surface; B = bottom.

^b Fragment (eaten by crabs).

TABLE H-74
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 20-21 OCTOBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Total Weight (g)
13	S	unicorn filefish	1	174	92
		Spanish sardine	1	116	23
	B	porkfish	2	162-171	374
		planehead filefish	2	191-211	520
		spot	1	237	431
14	S	white mullet	2	270-280	954
		Spanish sardine	2	119-126	58
	B	white mullet	1	572	572
15	S	crevalle jack	1	475	3000
		yellow jack	1	179	128
		gray snapper	1	272	547
		lane snapper	1	202	266
		porkfish	1	155	120
		bluestriped grunt	1	203	233
	B	lane snapper	1	474	231
		mutton snapper	1	302	900
		sailors choice	1	194	229

TABLE H-74
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
20-21 OCTOBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Total Weight (g)
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

TABLE H-75

INSHORE GILL NET COLLECTIONS AT ST. LUCIE
21-22 OCTOBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Total Weight (g)
13	S	nothing collected	-	-	-
	B	spiny lobster	1	75	318
		Atlantic croaker	1	286	491
		lane snapper	1	273	613
14	S	bluestriped grunt	3	199-254	1112
	B	striped mullet	2	386-404	2621
		lane snapper	1	218	320
15	S	spot	4	240-250	- ^a
		pinfish	1	130	84
			2	208-225	580
		black margate	2	245-288	1469
		lane snapper	2	196-204	481
		porkfish	1	159	139
		Atlantic spadefish	1	194	434
		white mullet	1	304	512
		striped mullet	1	385	1179
		planehead filefish	1	172	174
		doctorfish	1	239	702

TABLE H-75
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
21-22 OCTOBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Total Weight (g)
15 (continued)	S	bighead searobin	1	301	616
	B	spiny lobster	2	88-90	999
		spot	4	224-293	2117
		lane snapper	1	257	464
		gray snapper	1	319	812
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

^a no weight (eaten by crabs)

TABLE H-76
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 17-18 NOVEMBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
13	S	nothing collected	-	-	-
	B	white mullet	2	322-332	1200
		striped mullet	1	396	1303
		mullet	1	fragment	fragment
		lane snapper	1	215	266
		flying gurnard	1	274	400
14	S	nothing collected	-	-	-
	B	striped mullet	1	373	1130
			1	fragment	fragment
		white mullet	1	305	655
		sheepshead	1	205	341
15	S	white mullet	2	282-310	1097
	B	blue crab	3	96-112	275
		striped mullet	3	308-405	3873
		white mullet	1	fragment	fragment
		mullet	1	fragment	fragment
		scorpionfish	1	166	218
		Atlantic croaker	1	262	321
		pigfish	1	132	80
		sea bass	1	108	35

TABLE H-76
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
17-18 NOVEMBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Total Weight (g)
16	S	nothing collected	-	-	-
	B	porkfish	2	174-282	867

^a S=surface; B=bottom

TABLE H-77

INSHORE GILL NET COLLECTIONS AT ST. LUCIE
18-19 NOVEMBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
13	S	white mullet	2	293-312	1185
	B	Atlantic bumper	2	212-241	348
		red grouper	1	265	527
		striped mullet	1	395	1132
		pinfish	1	213	314
		lane snapper	1	251	466
14	S	spot	1	256	514
	B	high-hat	1	205	236
		lane snapper	1	187	241
		striped mullet	1	394	1125
15	S	nothing collected	-	-	-
	B	blue crab	1	112	97
		lane snapper	3	226-275	1631
		spot	2	268-287	1491
		black sea bass	1	219	309
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

^a S=surface; B=bottom

TABLE H-78
 INSHORE GILL NET COLLECTIONS AT ST. LUCIE
 15-16 DECEMBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Total Weight (g)
13	S	Atlantic bumper	3	161-176	245
		pigfish	1	216	305
	B	blue crab	1	125	146
		lane snapper	3	214-226	942
		bonnethead	1	365	507
14	S	speckled crab	1	126	139
		striped mullet	1	402	1418
		bigeye scad	1	172	120
	B	spot	2	251-254	1060
		bluefish	1	307	514
		pigfish	1	187	195
		lane snapper	1	222	311
		crevalle jack	1	181	80
		black margate	1	245	561
		striped mullet	1	374	1192
15	S	striped mullet	1	383	1078
		Spanish mackerel	1	242	139

TABLE H-78
(continued)
INSHORE GILL NET COLLECTIONS AT ST. LUCIE
15-16 DECEMBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Total Weight (g)
15 (continued)	B	black margate	2	233-241	1043
		palometa	1	268	586
		striped mullet	1	fragment	fragment
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

^a S = Surface; B = Bottom.

TABLE H-79

INSHORE GILL NET COLLECTIONS AT ST. LUCIE
16-17 DECEMBER 1976

Station number	Depth ^a	Species	Number of individuals	Range of standard lengths (mm)	Total Weight (g)
13	S	Atlantic bumper	1	255	227
	B	white mullet	4	296-317	2349
		Atlantic bumper	1	242	196
		black margate	1	192	252
		lane snapper	1	221	308
14	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
15	S	nothing collected	-	-	-
	B	nothing collected	-	-	-
16	S	nothing collected	-	-	-
	B	nothing collected	-	-	-

TABLE H-80
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
28 MARCH 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
0	2.5	Atlantic bumper	51	140-206	4535
		Spanish mackerel	1	420	681
	2.9	Atlantic bumper	8	163-198	795
	3.3	Spanish mackerel	10	355-465	6186
		Atlantic bumper	4	182-210	538
		porgy	2	183-192	541
	3.8	cobia	1	730	5675
	4.6	porgy	1	205	383
1	2.5	Atlantic bumper	78	136-172	5562
		Spanish mackerel	6	362-478	4544
		cobia	2	297-301	615
		bigeye scad	2	206-220	495
		sharksucker	1	274	410
	2.9	Spanish mackerel	4	361-455	2716
		Atlantic bumper	3	169-192	296
	3.3	Spanish mackerel	8	370-490	6153
		Atlantic bumper	1	195	134
		cobia	1	345	545

TABLE H-80
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
28 MARCH 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
1 (continued)	3.8	Spanish mackerel	3	400-576	3592
	4.6	king mackerel	1	850	5789
2	2.5	Atlantic bumper	14	159-198	1476
		Spanish mackerel	2	391-447	1421
		spotfin mojarra	1	165	128
	2.9	Atlantic bumper	2	172-194	319
	3.3	Spanish mackerel	2	402-507	2069
	3.8	Spanish mackerel	3	425-532	3256
		Atlantic bumper	2	190-201	262
		blue runner	1	312	698
3	2.5	king mackerel	1	825	4994
		Atlantic bumper	5	155-162	402
		spotfin mojarra	3	144-161	316
4	2.5	Atlantic bumper	7	160-177	579
	2.9	Spanish mackerel	2	462-534	2357
	3.3	blue runner	1	311	620
	3.8	Spanish mackerel	2	470-536	2525
		king mackerel	1	655	2384

TABLE H-80
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
28 MARCH 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
5	2.5	Atlantic bumper	5	139-180	473
		cobia	1	285	259
			1	478	1500
		sea catfish	1	247	270
	2.9	Atlantic bumper	2	177-186	227
	3.3	Spanish mackerel	1	403-415	1432
		Atlantic bumper	1	203	153
	3.8	Spanish mackerel	2	438-460	1784
		sea catfish	1	250 ^a	300 ^a
	4.6	Spanish mackerel	1	525	1277
		Atlantic bumper	1	165	84

^a estimated (lost overboard)

TABLE H-81

OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
26 APRIL 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
0	2.5	Atlantic bumper	7	156-175	601
	3.3	banded rudderfish	1	362	960
1	3.3	blue runner	1	318	685
2	-	nothing collected	-	-	-
3	-	nothing collected	-	-	-
4	-	nothing collected	-	-	-
5	3.8	blue runner	1	291	543

TABLE H-82
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
20 MAY 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
0	2.5	blue runner	3	260-317	1696
		Spanish mackerel	2	352-370	938
	2.9	Spanish mackerel	3	368-427	1823
			1	506	1096
	3.3	blue runner	10	243-297	4419
		sea catfish	1	280	409
1	2.5	blue runner	2	211-243	587
		southern kingfish	1	277	373
	3.3	blue runner	5	248-278	2010
2	2.5	little tunny	1	326	595
3	-	nothing collected	-	-	-
4	2.5	frigate mackerel	6	287-323	3236
	3.3	Spanish mackerel	1	381	540
5	3.3	blue runner	1	264	411

TABLE H-83
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
23 JUNE 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
0	2.5	blue runner	7	230-261	2604
		little tunny	1	358	824
	3.3	blue runner	12	240-288	5119
	4.6	blue runner	1	294	591
1	2.5	blue runner	2	216-257	653
		Spanish mackerel	1	349	414
	2.9	blue runner	2	263-266	881
		Spanish mackerel	1	402	554
	3.3	blue runner	2	252-257	871
	3.8	blue runner	1	339	1073
2	2.5	blue runner	4	256-323	2054
	3.3	blue runner	4	276-324	2888
3	-	nothing collected	-	-	-
4	3.8	Spanish mackerel	1	488	972
5	3.3	blue runner	9	256-277	3912
	3.8	blue runner	1	332	766

TABLE H-83
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
23 JUNE 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
5 (continued)	4.6	blue runner	1	277	519
		bighead searobin	1	221	302

TABLE H-84
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
20 JULY 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
0	3.8	blue runner	1	315	621
1	2.5	blue runner	1	259	408
2	2.5	Atlantic bumper	12	149-186	1011
	3.3	swimming crab	1	61	32
		blue runner	1	326	807
		flounder	1	203	144
	3.8	blue runner	1	362	910
3	-	nothing collected	-	-	-
4	2.5	Atlantic bumper	2	149-161	131
		leopard searobin	1	174	78
	4.5	blue runner	1	312	745
5	3.3	blue runner	2	287-288	1075
	3.8	blue runner	1	345	831

TABLE H-85
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
17 AUGUST 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
0	3.3	blue runner	1	279	480
1	2.5	Atlantic bumper	8	142-158	537
		lane snapper	5	172-189	790
	2.9	Atlantic bumper	18	143-192	1527
		lane snapper	12	167-205	2024
		mutton snapper	1	268	540
		blue runner	1	227	275
	3.3	Atlantic bumper	8	133-163	512
		striped mojarra	7	162-197	1121
		Spanish mackerel	1	366	436
		blue runner	1	308	585
		sheepshead	1	176	205
	3.8	silver porgy	2	147-172	337
		Atlantic moonfish	1	181	130
2	2.5	blue runner	4	210-242	1094
3	2.5	Atlantic bumper	2	178-195	229

TABLE H-85
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
17 AUGUST 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
4	2.5	Spanish mackerel	1	369	498
		blue runner	1	217	232
	2.9	Atlantic bumper	3	185-201	371
		blue runner	1	234	262
	3.3	blue runner	1	276	513
	3.8	blue runner	1	328	957
5	2.5	Atlantic bumper	12	150-201	971
	3.3	Spanish mackerel	1	404	629
		blue runner	1	227	268
	3.8	blue runner	1	258	400

TABLE H-86

OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
21 SEPTEMBER 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
.0	2.5	blue runner	2	231-238	540
		dusky flounder	1	187	114
		sharksucker	1	476	575
	3.3	blue runner	10	245-324	4601
		jolthead porgy	1	152	152
1	2.5	Atlantic bumper	3	156-164	209
	3.3	blue runner	2	256-284	882
	4.6	African pompano	1	206	242
2	-	nothing collected	-	-	-
3	3.3	blue runner	4	254-298	2023
4	3.3	blue runner	1	285	470
		dusky flounder	1	222	209
5	2.5	leopard searobin	1	152	53
		lined seahorse	1	153	13
	3.3	blue runner	12	242-339	5489

TABLE H-87

OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
25 OCTOBER 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	2.5	Atlantic bumper	78	126-200	6566
		Spanish mackerel	12	295-365	4664
		blue runner	2	219-315	934
		spot	1	179	165
	2.9	Atlantic bumper	30	150-194	3014
		Spanish mackerel	4	330-360	1766
		bluefish	3	255-305	1334
		ladyfish	1	419	789
		Atlantic croaker	1	194	173
		striped mojarra	1	149	128
	3.3	Atlantic bumper	13	153-212	1450
		Spanish mackerel	7	250-360	3043
		bluefish	3	313-335	1806
		pigfish	1	205	248
		blue runner	1	289	528
	3.8	Atlantic moonfish	1	162	115
	4.6	gafttopsail catfish	1	346	851
1	2.5	Atlantic bumper	2	182-189	223
		crevalle jack	1	360	1282

TABLE H-87
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
25 OCTOBER 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1 (continued)					
	2.9	Spanish mackerel	1	394	718
	3.3	Atlantic bumper	6	157-213	522
		Spanish mackerel	3	362-397	1696
		cobia	1	516	1650
		crevalle jack	1	256	410
		blue runner	1	192	174
		sea catfish	1	220	181
	3.8	bluefish	1	455	1630
		cownose ray	1	494	1800
	4.6	crevalle jack	1	391	1483
		sheepshead	1	270	675
2					
	2.5	Atlantic bumper	24	143-210	2202
		Spanish mackerel	4	307-360	1507
			1	596	1157
		blue runner	1	239	336
		sea catfish	1	229	201
	2.8	Atlantic bumper	2	168-195	233
		blue runner	1	335	841

TABLE H-87
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
25 OCTOBER 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
2 (continued)					
	3.3	Spanish mackerel	3	327-360	1361
			1	647	1800
		blue runner	1	296	547
3	2.5	Atlantic bumper	17	143-192	1280
		Spanish mackerel	9	267-356	3337
		bigeye scad	2	208-215	405
		blue runner	2	182-187	316
		crevalle jack	1	165	124
	2.8	Spanish mackerel	1	385	608
	3.3	Spanish mackerel	2	328-345	816
	3.8	Spanish mackerel	1	380	650
4	2.5	Atlantic bumper	5	174-205	605
		Spanish mackerel	5	332-364	2379
		Atlantic thread herring	1	182	131

TABLE H-87
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
25 OCTOBER 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
4 (continued)					
	2.8	Atlantic bumper	3	177-194	351
		Spanish mackerel	1	535	1689
		bluefish	1	312	570
	3.3	bluefish	1	351	665
	3.8	bluefish	1	384	1029
		scalloped hammerhead	1	550	2190
	4.6	bonnethead	1	590	1800
5					
	2.5	Atlantic bumper	10	139-206	739
		Spanish mackerel	5	300-324	1629
			2	395-474	1820
		blue runner	5	195-223	1142
		crevalle jack	2	162-165	260
		sea catfish	1	236	175
	2.8	bluefish	6	304-343	3345
			1	fragment	fragment
		Atlantic bumper	5	178-192	538
		Spanish mackerel	2	301-342	732
		blue runner	1	231	300

TABLE H-87
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
25 OCTOBER 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
5 (continued)					
3.3		Spanish mackerel	2	341-369	1013
			1	434	900
		Florida pompano	1	197	236
		blue runner	1	237	343
		Atlantic bumper	1	197	127
		sea catfish	1	222	182
		gaftopsail catfish	1	269	357
3.8		bluefish	1	327	521
			1	fragment	fragment
		gaftopsail catfish	2	279-310	922
		blue runner	1	265	426
4.6		crevalle jack	1	249	419
		gaftopsail catfish	1	340	954
		crevalle jack	1	154	104
		spinner shark	1	715	5633

TABLE H-88
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
29 NOVEMBER 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	blue runner	6	217-305	2953
	Atlantic sharpnose shark	4	420-475	3755
	bluefish	1	290	483
1	crevalle jack	268 1	219-244 345	114600 ^a 1228
	blue runner	104	200-320	43200 ^a
	bluefish	46	280-390	44400 ^a
	cobia	1	590	2452
	Atlantic sharpnose shark	1	420	912
2	nothing collected	-	-	-
3	greater amberjack	14	310-327	11024
4	nothing collected	-	-	-
5	blue runner	1	275	530

^a Calculated from a sub-sample.

TABLE H-89

OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
15 DECEMBER 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	2.5	Atlantic bumper	53	132-166	3363
		Spanish mackerel	20	335-405	10448
		blue runner	10	176-240	2666
		Atlantic thread herring	4	156-174	410
		bigeye scad	3	201-211	589
		menhaden	1	229	297
		pinfish	1	153	117
		sharksucker	1	409	336
		blue runner	7	225-238	2123
		bluefish	7	302-373	5452
2.9	2.9	Spanish mackerel	6	328-362	2640
		Atlantic bumper	2	140-150	121
		sharksucker	2	396-444	916
		menhaden	1	222	303
		cobia	1	367	586
		yellowfin menhaden	24	217-254	7149
		Spanish mackerel	15	332-444	8033
3.3	3.3	bluefish	9	332-357	7095
		blue runner	2	243-252	685
		sand drum	2	234-251	639

TABLE H-89
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
15 DECEMBER 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0 (continued)					
	3.3	Atlantic bumper	1	166	87
		striped searobin	1	190	173
		sea catfish	1	302	478
		gaftopsail catfish	1	241	298
	3.8	yellowfin menhaden	23	233-276	8267
		Atlantic menhaden	3	242-257	1242
		bluefish	4	348-370	3689
		Spanish mackerel	3	364-402	2018
		gaftopsail catfish	1	277	360
	4.6	yellowfin menhaden	3	232-264	1173
		bluefish	1	304	576
		Florida pompano	1	294-738	738
		gaftopsail catfish	1	282	463
1	2.5	pigfish	21	154-202	4039
		spot	11	162-188	1503
		sand drum	9	181-237	1931
		Atlantic menhaden	7	170-224	1084
		menhaden	1	209	244

TABLE H-89
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
15 DECEMBER 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1 (continued)					
	2.5	lane snapper	6	176-194	1123
		Atlantic bumper	4	146-162	252
		crevalle jack	3	156-250	908
		weakfish	3	255-285	1016
		Atlantic thread herring	3	172-184	359
		Spanish mackerel	1	327	408
		bluefish	1	287	437
		bonnethead	1	394	640
	2.9	sand drum	11	185-259	2848
		Atlantic bumper	8	135-160	436
		pigfish	5	157-202	817
		crevalle jack	5	172-274	1538
		yellowfin menhaden	3	225-234	879
		gray snapper	2	195-228	516
		lane snapper	1	169	127
	3.3	crevalle jack	31	191-280	12847
		yellowfin menhaden	11	225-242	3291
		Spanish mackerel	3	336-382	1423
		bluefish	3	292-355	1810

TABLE H-89
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
15 DECEMBER 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1 (continued)					
	3.3	sand drum	1	229	279
		spot	1	204	244
		southern kingfish	1	274	363
	3.8	crevalle jack	9	240-276	3976
		yellowfin menhaden	7	240-266	2657
		Atlantic bumper	1	182	90
	4.6	Atlantic menhaden	1	273	550
		crevalle jack	1	260	433
2					
	2.5	Atlantic bumper	12	148-175	885
		sea catfish	1	278	370
	2.9	sea catfish	1	292	411
	3.3	sea catfish	1	289	412
	4.6	sharksucker	1	430	568
3					
	2.5	Atlantic bumper	5	153-185	392
	2.9	Atlantic bumper	1	153	59
		sea catfish	1	264	296

TABLE H-89
(continued)
OFFSHORE GILL NET COLLECTIONS AT ST. LUCIE
15 DECEMBER 1976

Station number	Mesh size (in)	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
4	2.5	Atlantic bumper	2	162-171	156
		sea catfish	2	242-247	482
	3.3	sea catfish	1	287	464
	3.8	Spanish mackerel	1	365	528
	4.6	Spanish mackerel	1	480	1249
5	2.5	Atlantic bumper	7	151-173	534
		sharksucker	1	317	134
	2.9	Atlantic bumper	6	134-195	488
		Spanish mackerel	1	362	452
		blue runner	1	230	264
		sea catfish	1	257	323
	4.6	crevalle jack	1	374	1362

TABLE H-90

TRAWL COLLECTIONS AT ST. LUCIE
5. APRIL 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	sea catfish	6	220-269	1332
	tomtate	1	113	42
	spotted whiff	1	127	33
1	dusky flounder	2	135-153	106
	pigfish	1	155	86
2	dusky flounder	1	137	36
	spotted whiff	1	135	48
3	flounder (<i>B. robinsi</i>)	1	27	1
4	none collected	-	-	-
5	none collected	-	-	-

TABLE H-91
 TRAWL COLLECTIONS AT ST. LUCIE
 22 APRIL 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	leopard searobin	4	14-52	6
		1	161	56
	tomtate	4	110-116	140
	high-hat	1	108	26
		1	189	147
	pigfish	1	172	128
	sheepshead	1	246	443
	cus-k-eel	1	22	1
1	sea catfish	6	213-265	1414
	gray snapper	3	165-178	378
	lane snapper	1	142	80
	bank cus-k-eel	2	164-208	72
	cus-k-eel	7	14-23	2
	leopard searobin	2	19-23	1
	whiff (<i>Citharichthys</i> sp.)	2	28-34	2
	inshore lizzardfish	1	34	1
	anchovy	2	13-22	1

TABLE H-91
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
22 APRIL 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
2	blackcheek tonguefish	1	81	5
	leopard searobin	1	49	2
3	flounder (<i>B. robinsi</i>)	1	49	3
	silver jenny	1	131	70
4	flounder (<i>B. robinsi</i>)	1	36	1
	bigeye stargazer	1	32	1
5	pigfish	4	166-182	517
	black sea bass	2	28-57	5
	bank cusk-eel	2	142-166	44
	eyed flounder	1	86	14
	ocellated flounder	1	118	30
	spottedfin tonguefish	1	74	3
	silver jenny	1	99	28
	leopard searobin	1	161	54
	Atlantic midshipman	1	125	25

TABLE H-92

TRAWL COLLECTIONS AT ST. LUCIE
18 MAY 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	bank cusk-eel	8	114-159	144
		5	172-224	223
	leopard searobin	3	16-18	2
		6	50-92	38
	sand perch	5	16-31	2
	channel flounder	2	155-156	126
	flounder	1	16	1
	anchovy	2	29	1
	whiff (<i>Citharichthys</i> sp.)	2	24-41	1
	lesser electric ray	1	312	599
1	searobin (<i>Prionotus</i> sp.)	1	16	1
	cardinalfish	1	10	1
	sand perch	5	19-34	2
	leopard searobin	1	76	7
		1	175	69
	searobin (<i>Prionotus</i> sp.)	3	18-24	1
	bank cusk-eel	2	154-212	81
	rock sea bass	2	31-41	2
	whiff (<i>Citharichthys</i> sp.)	2	43-44	2
	sand drum	1	184	115

TABLE H-92
(continued)
- TRAWL COLLECTIONS AT ST. LUCIE
18 MAY 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
1 (continued)	twospot cardinalfish	1	20	1
	fish larvae	4	12-23	1
2	sand perch	8	18-32	4
	polka-dot cusk-eel	6	137-179	162
	bank cusk-eel	2	145-168	50
	leopard searobin	2	48-59	5
		1	152	48
	searobin (<i>Prionotus</i> sp.)	1	8	1
3	eyed flounder	1	94	15
	leopard searobin	7	40-59	13
		3	71-99	28
	polka-dot cusk-eel	3	82-100	12
		3	143-171	79
	bank cusk-eel	1	218	64
	inshore lizardfish	1	37	1
		1	255	147
	whiff (<i>Citharichthys</i> sp.)	1	47	2
	flounder (<i>Syacium</i> sp.)	7	13-16	1
		1	37	1

TABLE H-92
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
18 MAY 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
4	sand perch	8	20-30	4
		1	111	22
	bank cusk-eel	5	131-186	101
	polka-dot cusk-eel	1	144	17
	flounder (<i>B. robinsi</i>)	5	56-70	18
	spottedfin tonguefish	3	106-112	29
	leopard searobin	3	63-84	15
	spotfin mojarra	1	136	62
	bronze cardinalfish	1	15	1
	twospot cardinalfish	1	24	1
5	sand perch	18	14-30	7
		1	123	37
	leopard searobin	4	16-28	2
		4	51-71	13
	searobin (<i>Prionotus</i> sp.)	3	10-16	1
	bank cusk-eel	4	71-91	9
		4	124-166	70
	spottedfin tonguefish	4	79-108	30
	tonguefish	1	16	1
	spotted whiff	2	21-56	3

TABLE H-92
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
18 MAY 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
5 (continued)	dusky flounder	1	165	61
	flounder	3	13-17	1
	pigfish	1	105	39
		2	189-195	333
	rock sea bass	2	33-37	2
	twospot cardinalfish	2	20-24	1
	cardinalfish	1	11	1
	anchovy	2	24-31	1
	barbfish	1	191	38
	bighead searobin	1	202	218
	Atlantic midshipman	1	32	1

TABLE H-93
 TRAWL COLLECTIONS AT ST. LUCIE
 3 JUNE 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	leopard searobin	4	24-62	6
	spotted whiff	1	68	5
		1	136	32
	bay whiff	1	55	2
	whiff (<i>Citharichthys</i> sp.)	4	20-32	1
	ocellated flounder	1	132	42
	bank cusk-eel	1	189	45
	sand perch	1	21	1
1	spotted whiff	1	58	3
2	leopard searobin	5	61-88	32
		2	165-189	146
	sand perch	7	24-49	7
	spotted whiff	2	35-66	4
		1	136	30
	flounder (<i>B. robinsi</i>)	1	79	9
	snakefish	1	174	82
3	flounder (<i>B. robinsi</i>)	1	18	1

TABLE H-93
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
3 JUNE 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
4	sand perch	3	25-35	2
	leopard searobin	2	63-72	8
	barbfish	1	97	33
5	sand perch	1	22	1
	leopard searobin	1	76	6
	spottedfin tonguefish	1	122	18

TABLE H-94

TRAWL COLLECTIONS AT ST. LUCIE
1 JULY 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	twospot cardinalfish	2	19-27	1
	dusky flounder	1	183	113
	flounder (<i>Bothus</i> sp.)	2	17-19	1
	bighead searobin	1	69	6
	tomtate	1	118	43
1	tomtate	5	37-47	9
	spotted whiff	2	47-51	14
	spotfin mojarra	1	23	1
	bighead searobin	1	61	5
	Atlantic spadefish	1	135	151
	fish larva	1	12	1
2	sand perch	2	48-53	6
	polka-dot cusk-eel	2	149-152	40
	bank cusk-eel	1	210	60
	flounder (<i>B. robinsi</i>)	2	98-103	31
	eyed flounder	1	51	3
	leopard searobin	2	96-119	35

TABLE H-94
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
1 JULY 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
2 (continued)	scorpionfish (<i>Scorpaena</i> sp.)	1	31	1
	inshore lizzardfish	1	232	114
3	flounder (<i>B. robinsi</i>)	1	49	2
	flounder (<i>Bothus</i> sp.)	3	17-18	1
4	sand perch	3	37-63	5
	flounder (<i>B. robinsi</i>)	1	81	11
	flounder (<i>Bothus</i> sp.)	1	16	1
	twospot cardinalfish	1	14	1
	leopard searobin	1	109	19
	barbfish	1	126	62
	polka-dot cusk-eel	1	157	27
	planehead filefish	1	45	3
	fish larvae	2	14-15	1
5	sand perch	5	42-54	9
	dusky flounder	3	172-200	318

TABLE H-94
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
1 JULY 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
5 (continued)	spottedfin tonguefish	1	108	12
	leopard searobin	1	75	5
	lined seahorse	1	145	13
	planehead filefish	1	42	3

TABLE H-95
 TRAWL COLLECTIONS AT ST. LUCIE
 18 AUGUST 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	bluespotted searobin	1	37	1
		1	111	25
	bank cusk-eel	1	177	32
	spotfin mojarra	1	68	7
	planehead filefish	2	21-23	1
	gray triggerfish	1	63	9
	high-hat	1	136	55
	tomtate	1	22	1
1	tomtate	18	20-68	80
	silver jenny	15	53-90	100
	pigfish	1	162	91
	mutton snapper	1	41	2
	fish larvae	6	4-9	1
2	sand perch	3	43-53	6
	leopard searobin	2	148-174	114
	inshore lizzardfish	1	277	211
	pigfish	1	198	204

TABLE H-95
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
18 AUGUST 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
2 (continued)	short bigeye	1	23	1
	spotfin mojarra	1	62	6
	seaboard goby	1	16	1
	spottedfin tonguefish	1	124	17
	bronze cardinalfish	1	23	1
	planehead filefish	1	25	1
3	flounder (<i>B. robinsi</i>)	6	41-88	37
	flounder (<i>Syacium</i> sp.)	1	37	1
	flounder	1	14	1
	cusk-eel (<i>Lepophidion</i> sp.)	1	83	2
	whiff (<i>Citharichthys</i> sp.)	1	14	1
	planehead filefish	1	24	1
4	northern searobin	2	24-32	1
	planehead filefish	2	34-44	4
	dusky flounder	1	146	46
5	sand perch	6	18-45	6
		1	71	8

TABLE H-95
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
18 AUGUST 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
5 (continued)	pigfish	2	186-194	317
	flounder (<i>Syacium</i> sp.)	1	34	1
	short bigeye	1	25	1
	scorpionfish (<i>Scorpaena</i> sp.)	1	31	1

TABLE H-96

TRAWL COLLECTIONS AT ST. LUCIE
8 SEPTEMBER 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	lane snapper	3	28-35	3
	gray snapper	1	204	210
	shoal flounder	1	58	4
	dusky flounder	1	53	2
	bay whiff	1	46	2
	Atlantic spadefish	1	12	1
	black sea bass	1	125	51
	sand perch	1	57	4
	high-hat	1	37	2
	fish larvae	2	14-15	1
1	tomtate	5	22-48	6
	sand drum	2	32-62	6
	black drum	2	29	2
	spotfin mojarra	1	38	1
	Gulf flounder	1	224	202
	fish larvae	3	13-18	1

TABLE H-96
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
8 SEPTEMBER 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
2	nothing collected	-	-	-
3	flying gurnard	1	64	6
	flounder (<i>B.robinsi</i>)	1	62	4
4	bank cusk-eel	1	224	74
	leopard searobin	1	116	59
5	leopard searobin	1	138	26
	barbfish	1	fragment	fragment

TABLE H-97
 TRAWL COLLECTIONS AT ST. LUCIE
 5 OCTOBER 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	snapper (<i>Lutjanus</i> sp.)	8	19-22	1
	leopard searobin	6	125-160	240
	flounder (<i>Bothus</i> sp.)	1	16	1
	flounder (<i>B. robbinsi</i>)	1	43	1
		1	82	11
	barbfish	2	55-70	17
	inshore lizardfish	1	335	370
	tomtate	1	120	48
1	sand perch	1	18	1
	bank cusk-eel	1	213	59
	lane snapper	1	21	1
2	leopard searobin	4	135-189	207
	lane snapper	4	19-24	1
	sand perch	2	20-40	1
	planehead filefish	2	80-106	62
	spottedfin tonguefish	1	135	22
	eyed flounder	1	108	26
	flounder	1	14	1
	barbfish	1	79	15

TABLE H-97
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
5 OCTOBER 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
2 (continued)				
	blackfin cardinalfish	1	12	1
3	flounder (<i>B. robinsi</i>)	4	45-59	14
	northern searobin	2	49-50	5
	snakefish	1	30	1
	spotted whiff	1	147	47
4	leopard searobin	1	88	8
		6	128-172	241
	lane snapper	2	21	1
	sand perch	2	19-23	1
	spotted whiff	1	141	37
	dusky flounder	1	74	7
	flounder	1	15	1
	bank cusk-eel	1	79	3
	scorpionfish	1	67	11
5	barbfish	7	35-60	29
	lane snapper	3	19-21	1

TABLE H-97
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
5 OCTOBER 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
5 (continued)				
	leopard searobin	2	124-144	65
	sand perch	2	48-58	6
	bay whiff	2	68-75	9
	eyed flounder	2	88-94	25
	ocellated flounder	1	190	148
	flounder	1	15	1
	spottedfin tonguefish	2	120-128	37
	pigfish	1	198	228
	planehead filefish	1	88	20

TABLE H-98

TRAWL COLLECTIONS AT ST. LUCIE
11 NOVEMBER 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	silver jenny	3	57-82	32
	pigfish	2	131-194	270
	Cuban anchovy	1	34	1
	striped anchovy	1	37	1
	anchovy	3	24-31	1
	sea catfish	1	177	99
	planehead filefish	1	43	4
	flounder	1	15	1
1	sea catfish	1	136	47
	black drum	1	161	115
	Atlantic croaker	1	303	518
	anchovy	1	fragment	fragment
2	pigfish	2	139-186	253
	Cuban anchovy	1	36	1
3	Cuban anchovy	1	39	1
	anchovy	1	31	1
	northern searobin	1	37	1

TABLE H-98
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
11 NOVEMBER 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
3 (continued)	cusck-eel	1	65	1
	stargazer	1	61	2
	snakefish	1	115	23
4	Cuban anchovy	3	33-38	2
	anchovy	1	30	1
	leopard searobin	2	137-171	113
	sea catfish	1	138	43
	spottedfin tonguefish	1	91	8
	pinfish	1	128	63
5	pigfish	4	180-204	743
	leopard searobin	3	59-91	26
	silver jenny	1	97	17
	Atlantic croaker	1	182	116
	bank cusck-eel	1	168	38
	flounder	1	22	1

TABLE H-99
 TRAWL COLLECTIONS AT ST. LUCIE
 12 DECEMBER 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
0	pigfish	2	188-197	456
	black sea bass	1	94	22
		1	205	251
	bank cusk-eel	1	84	4
	croaker	1	12	1
1	nothing collected	-	-	-
2	leopard searobin	1	152	37
3	spotted whiff	1	47	1
		1	102	21
	dusky flounder	1	187	107
	stargazer	1	42	1
	cusk-eel	1	77	2
4	nothing collected	-	-	-
5	sea catfish	1	154	53
		2	222-274	539
	leopard searobin	3	139-172	164

TABLE H-99
(continued)
TRAWL COLLECTIONS AT ST. LUCIE
12 DECEMBER 1976

Station number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
5 (continued)	bank cusk-eel	2	97-101	11
	pigfish	1	151	94
	flounder	1	16	1

TABLE H-100

BEACH SEINE COLLECTIONS AT ST. LUCIE
29 MARCH 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
6	1	speckled crab	1	42	89
		lesser electric ray	1	353	856
	2, 3	nothing collected	-	-	-
7	1	Atlantic bumper	8	145-176	615
		Gulf kingfish	1	101	17
		snook	1	432	1212
	2	sea bream	11	198-260	4464
		ladyfish	1	370	436
	3	Atlantic bumper	1	182	108
8	1	Atlantic bumper	1	154	72
	2	lookdown	5	192-228	1243
		Gulf kingfish	1	154	64
			2	204-264	410
		Florida pompano	2	76-81	36
		white mullet	1	214	95
		sand drum	1	79	11
	3	southern kingfish	1	238	242

TABLE H-101

BEACH SEINE COLLECTIONS AT ST. LUCIE
12 APRIL 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
6	1	kingfish	2	72-83	13
	2	kingfish	2	50-95	15
	3	kingfish	1	96	14
7	1	palometa	2	88-90	34
	2	speckled crab	1	92	94
		palometa	2	106-107	57
	3	palometa	1	80	15
		kingfish	1	76	9
8	1	sand drum	1	78	7
	2	speckled crab	1	48	6
			1	115	101
		kingfish	2	91-126	42
	3	nothing collected	-	-	-

TABLE H-102
BEACH SEINE COLLECTIONS AT ST. LUCIE
10 MAY 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
6	1	sand drum	15	46-89	79
		Gulf kingfish	1	79	7
			2	142-184	133
		palometa	1	125	47
	2	scaled sardine	1	103	22
		Gulf kingfish	2	116-118	47
			1	184	94
		sand drum	1	51	2
	3	sand drum	5	34-76	22
		Gulf kingfish	2	187	199
		silver jenny	1	99	27
7	1	palometa	4	201-242	1152
		ladyfish	2	294	376
		Gulf kingfish	1	117	26
	2	southern kingfish	5	259-289	1809
		palometa	1	202	242
		Atlantic thread herring	1	142	48
	3	lookdown	1	219	238

TABLE H-102
(continued)
BEACH SEINE COLLECTIONS AT ST. LUCIE
10 MAY 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
8	1	southern kingfish	20	216-278	4924
		Gulf kingfish	1	223	186
		scaled sardine	1	112	32
	2	Gulf kingfish	1	90	13
	3	Florida pompano	1	37	2

TABLE H-103
BEACH SEINE COLLECTIONS AT ST. LUCIE
11 JUNE 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
6	1	speckled crab	5	99-138	550
		stone crab	1	44	31
		black drum	2	241-249	922
		sand drum	1	86	14
		sea catfish	1	239	198
	2	speckled crab	5	95-137	558
		Florida pompano	3	59-96	45
		palometa	1	176	166
		black drum	1	236	406
		Gulf kingfish	1	194	116
	3	speckled crab	2	99-105	168
		Gulf kingfish	5	40-72	14
		sand drum	2	33-38	3
			1	82	11
		Florida pompano	1	67	10
		palometa	1	212	360
7	1	sea catfish	2	209-233	368
		Gulf kingfish	1	110	24

TABLE H-103
(continued)
BEACH SEINE COLLECTIONS AT ST. LUCIE
11 JUNE 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
7 (continued)	1	striped mojarra	1	134	85
		southern flounder	1	312	578
	2	sand drum	2	179-182	240
		black drum	1	211	355
		lookdown	1	192	243
		Florida pompano	1	231	401
		Gulf kingfish	1	209	157
		sea catfish	1	193	116
	3	speckled crab	1	99	92
		sand drum	2	85-108	35
		black drum	1	266	516
		sea catfish	1	275	408
8	1	anchovy	8	33-52	4
		sand drum	2	40-52	3
		lookdown	2	181-212	377
		Atlantic bumper	1	191	108
		Gulf kingfish	1	218	155
		ladyfish	1	383	486

TABLE H-103.
(continued)
BEACH SEINE COLLECTIONS AT ST. LUCIE
11 JUNE 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
8 (continued)	2	speckled crab	1	121	129
		Florida pompano	1	56	5
		sea catfish	1	357	632
	3	anchovy	144	26-34	32
		herring (<i>Harengula</i> sp.)	17	25-39	4
		Gulf kingfish	1 1	85 227	10 179

TABLE H-104
BEACH SEINE COLLECTIONS AT ST. LUCIE
7 JULY 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
6	1	speckled crab	2	107-114	223
		herring (<i>Harengula</i> sp.)	305	67-80	2505
		Spanish sardine	76	50-71	186
		bigeye scad	39	81-101	386
		anchovy	7	48-54	7
		southern kingfish	4	209-238	701
		northern sennet	1	153	20
		sand drum	1	84	11
		broad flounder	1	102	21
	2	speckled crab	5	93-114	424
		herring (<i>Harengula</i> sp.)	85	55-83	713
		Spanish sardine	17	51-63	41
	3	speckled crab	2	86-111	158
		sand drum	24	73-104	303
		herring (<i>Harengula</i> sp.)	3	74-76	31
		Florida pompano	1	71	11
		broad flounder	1	162	100

TABLE H-104
(continued)
BEACH SEINE COLLECTIONS AT ST. LUCIE
7 JULY 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
7	1	speckled crab	2	110-141	314
		Florida pompano	3	49-58	12
		Gulf kingfish	2	96-105	32
	2	Gulf kingfish	4	88-137	83
		sand drum	2	80-86	22
		bluefish	1	101	15
		mojarra	1	153	98
		broad flounder	1	86	12
	3	speckled crab	1	120	154
		Gulf kingfish	6	87-132	137
			1	293	408
		southern kingfish	4	187-217	533
		Florida pompano	3	57-89	34
		palometa	2	101-106	55
		sand drum	1	85	12
		mojarra	1	166	113
		sea catfish	1	250	226
8	1	guaguanche	14	312-415	5478
		striped mojarra	4	151-181	533

TABLE H-104
(continued)
BEACH SEINE COLLECTIONS AT ST. LUCIE
7 JULY 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
8 (continued)	1	sand drum	1	80	9
		Florida pompano	1	47	4
		barbu.	1	160	176
	2	speckled crab	1	111	108
		Florida pompano	2	41-52	6
	3	Gulf kingfish	1	80	9

TABLE H-105
 BEACH SEINE COLLECTIONS AT ST. LUCIE
 25 AUGUST 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
6	1	speckled crab	1	103	94
	2	stone crab	1	21	3
		sand drum	1	141	58
		silver porgy	1	204	347
		sea catfish	1	184	89
	3	Atlantic bumper	4	42-50	8
		sea catfish	1	168	74
7	1	speckled crab	1	92	72
		sand drum	13	77-101	180
		Atlantic bumper	1	42	2
	2	speckled crab	9	92-141	1021
		blue crab	1	143	136
		sea catfish	4	163-169	258
			1	281	331
		sand drum	3	78-101	38
	3	speckled crab	7	98-156	1026
		sand drum	5	78-90	56
		sea catfish	2	164-185	165
		Atlantic bumper	2	45-46	4

TABLE H-105
(continued)
BEACH SEINE COLLECTIONS AT ST. LUCIE
25 AUGUST 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
7 (continued)	3	bigeye scad,	1	78	8
		Atlantic moonfish	1	191	154
8	1	ladyfish	1	398	622
		sand drum	1	90	14
	2	speckled crab	6	109-149	1148
		Atlantic bumper	1	49	3
	3	nothing collected	-	-	-

TABLE H-106
BEACH SEINE COLLECTIONS AT ST. LUCIE
8 SEPTEMBER 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
6	1	spot	15	148-182	1588
		Florida pompano	1	125	58
			3	162-194	585
	2	Atlantic bumper	8	137-166	532
		spot	2	147-155	180
		Florida pompano	2	185-192	438
	3	Florida pompano	1	52	7
			3	171-176	518
		sand drum	3	71-78	24
		Gulf kingfish	2	90-92	22
		spot	1	156	109
		ladyfish	1	272	205
7	1	speckled crab	2	104-116	218
		Florida pompano	5	162-188	918
		white mullet	1	125	35
	2	speckled crab	2	109-111	214
		spot	9	143-167	793
		sand drum	6	67-112	89
		white mullet	4	114-127	135

TABLE H-106
(continued)
BEACH SEINE COLLECTIONS AT ST. LUCIE
8 SEPTEMBER 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
7 (continued)	2	Gulf kingfish	2	102	33
		Florida pompano	1	57	6
	3	speckled crab	2	45-92	55
		Gulf kingfish	3	79-86	26
		Florida pompano	1	42	3
			1	120	50
		sand drum	1	55	3
		Atlantic bumper	1	168	77
8	1	spot	71	133-166	5992
		Gulf kingfish	7	94-106	121
			2	174-185	184
		sand drum	5	85-102	76
			3	135-142	180
		Florida pompano	1	104	33
		sea catfish	1	174	79
		sheepshead	1	192	301
	2	sea catfish	1	239	172
	3	sand drum	2	84-115	39
		sea bream	1	214	369

TABLE H-107

BEACH SEINE COLLECTIONS AT ST. LUCIE
1 NOVEMBER 1976^a

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
6	1	speckled crab	1	46	7
	2	speckled crab	1	130	166
	3	speckled crab	1	54	11
7	1	speckled crab	1	63	14
	2, 3	nothing collected	-	-	-
8	1	speckled crab	1	102	75
			1	147	252
	2	speckled crab	1	60	12
		Florida pompano	1	53	4
	3	speckled crab	1	63	14
		Florida pompano	2	48-55	7

^a October sample delayed due to inclement weather.

TABLE H-108

BEACH SEINE COLLECTIONS AT ST. LUCIE
16 NOVEMBER 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
6	1	lookdown	1	210	316
		crevalle jack	1	122	40
		Gulf kingfish	1	113	18
		Atlantic thread herring	1	74	8
	2	nothing collected	-	-	-
	3	Gulf kingfish	1	104	18
7	1	Atlantic thread herring	1	96	15
	2	lookdown	1	204	77
	3	speckled crab	2	42-57	13
		crevalle jack	1	187	188
		lookdown	1	231	421
8	1	Gulf kingfish	1	84	9
		lookdown	1	211	264
		black drum	1	325	820
	2	sea catfish	1	162	53
		southern kingfish	1	159	62

TABLE H-108
(continued)
BEACH SEINE COLLECTIONS AT ST. LUCIE
16 NOVEMBER 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Total weight (g)
8 (continued)	2	Atlantic thread herring	1	77	8
		Florida pompano	1	41	2
	3	Atlantic moonfish	1	202	188
		Atlantic thread herring	1	94	15
		black drum	1	201	277

TABLE H-109

BEACH SEINE COLLECTIONS AT ST. LUCIE
20 DECEMBER 1976

Station number	Replicate number	Species	Number of individuals	Range of standard lengths (mm)	Weight (g)
6	1	Florida pompano	1	61	6
	2	nothing collected	-	-	-
	3	crevalle jack	1	187	171
7	1	spot	3	160-168	309
		Atlantic spadefish	1	70	25
	2	nothing collected	-	-	-
	3	nothing collected	-	-	-
8	1	speckled crab	3	49-53	31
		Gulf kingfish	4	98-172	216
		sea catfish	1	135	31
	2	Gulf kingfish	2	139-141	80
	3	nothing collected	-	-	-

TABLE H-110

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
10 MARCH 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	2.60-13.84	13		23	18	1			
Sciaenidae	2.98-6.20			2			2		
Blenniidae	3.20-21.00	31		20	53	2	8	30	
Tetraodontiformes	3.72-11.11	3		2	3		1	3	
Clupeiformes	3.30-21.00	66		28	92	1	3	2	
Carangidae									
Gobiidae	10.30				1				
Pleuronectiformes									
Gobiesocidae									
Dactyloscopidae	5.30-13.50	28		57	35				
Serranidae									
Scorpaenidae	12.88	1							
Atherinidae									
All others	2.90-39.00	4		6	6	1	1	1	
Fish eggs	0.68-1.17	621		5896	9206	10206	8241	2034	
Total water filtered in m ³		1067		613	865	373	261	409	
Total fish larvae		146		138	208	4	15	36	
(larvae/m ³)		(.137)		(.225)	(.241)	(.011)	(.057)	(.088)	
Total fish eggs		621		5896	9206	10206	8241	2034	
(eggs/m ³)		(.582)		(9.616)	(10.646)	(27.36)	(31.538)	(4.973)	

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TABLE H-110
(continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
10 MARCH 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B ^a	5-A	5-B ^a	11-A	11-B	12-A	12-B
Gerreidae	2.89-4.83			14					
Sciaenidae									
Blenniidae	2.79-19.23	33		92			3		
Tetraodontiformes									
Clupeiformes	4.02-12.07	8		23					
Carangidae									
Gobiidae									
Pleuronectiformes									
Gobiesocidae	4.03-10.46			15					
Dactyloscopidae	6.51-8.53	7							
Serranidae									
Scorpaenidae									
Atherinidae									
All others	4.03-12.10	4		3					
Fish eggs	0.68-1.18	758		655		156	297	6	1
Total water filtered in m ³		391		413		133	454	325	319
Total fish larvae		52		147		0	3	0	0
(larvae/m ³)		(.144)		(.356)		(.000)	(.007)	(.000)	(.000)
Total fish eggs		758		655		156	297	6	1
(eggs/m ³)		(1.94)		(1.585)		(.36)	(.654)	(.018)	(.003)

^a Sample not taken.

TABLE H-111

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
29 MARCH 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	7.57-12.24	1			2				
Sciaenidae									
Blenniidae	2.29-12.88	1	7	5	60	10	1		
Tetraodontiformes	2.36-15.00	3		6	3	3	2		2
Clupeiformes	2.70-9.66	8			828		17	212	6
Carangidae	1.74-5.27	7	1		1	3	2		1
Gobiidae	4.30								1
Pleuronectiformes									
Gobiesocidae	2.48-3.00		2	1	1				
Dactyloscopidae	2.17-4.03	45		4			11		
Serranidae									
Scorpaenidae									
Atherinidae									
All others	2.50-12.88	6	1	3	16	2	1		4
Fish eggs	0.62-2.17	8482	6310	19998	58788	5793	9034	24274	454653
Total water filtered in m ³		743	741	701	669	771	826	541	607
Total fish larvae		71	11	19	911	18	34	212	14
(larvae/m ³)		(.095)	(.015)	(.027)	(1.361)	(.023)	(.041)	(.392)	(.023)
Total fish eggs		8482	6310	19998	58788	5793	9034	24274	454653
(eggs/m ³)		(11.405)	(8.513)	(28.528)	(87.836)	(7.511)	(10.935)	(44.852)	(49.273)

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TABLE H-111
(continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
29 MARCH 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae									
Sciaenidae									
Blenniidae	2.50-3.60	6	46	37	42			1	
Tetraodontiformes	2.67-17.07	3	3	1	3				
Clupeiformes	2.74-10.47	256	313	301	33				
Carangidae	2.54-8.53	4	1	4					
Gobiidae	3.10-3.40								2
Pleuronectiformes	12.40				1				
Gobiesocidae									
Dactyloscopidae	2.50-5.89	56	4						
Serranidae									
Scorpaenidae	4.03		1						
Atherinidae	3.10-10.47	3	1					3	
All others	1.20-12.88	4	6	30	43				2
Fish eggs	0.62-2.42	6827	10620	10241	7861	483	621	135	117
Total water filtered in m ³		628	647	602	592	529	588	470	449
Total fish larvae		332	375	373	122	0	0	4	4
(larvae/m ³)		(.528)	(.579)	(.619)	(.206)	(.000)	(.000)	(.008)	(.008)
Total fish eggs		6827	10620	10241	7861	483	621	135	117
(eggs/m ³)		(10.874)	(16.410)	(17.007)	(13.28)	(.912)	(1.055)	(.288)	(.260)

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TABLE H-112

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
13 APRIL 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	2.50-5.00				2			1	2
Sciaenidae	2.3						1		
Blenniidae	2.00-8.00			4	7	2	3	2	13
Tetraodontiformes	7.10								1
Clupeiformes	4.00-11.30	3		65	119	23	37	26	35
Carangidae									
Gobiidae	6.00								1
Pleuronectiformes									
Gobiesocidae									
Dactyloscopidae	4.50-5.60				1		5	6	1
Serranidae									
Scorpaenidae									
Atherinidae	3.70							1	
All others	3.00-14.20			2	1	2	2		2
Fish eggs	0.62-1.50	655	1034	1	17	81	96	11689	14516
Total water filtered in m ³		641	612	593	578	a	a	611	646
Total fish larvae		3	0	71	130	27	48	36	65
(larvae/m ³)		(.005)	(.000)	(.120)	(.225)	a	a	(.059)	(.085)
Total fish eggs		655	1034	1	17	81	96	11689	14516
(eggs/m ³)		(1.022)	(1.691)	(.002)	(.007)	a	a	(19.121)	(22.470)

^a Flowmeter malfunctioned.

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TABLE H-112
(continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
13 APRIL 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	3.70-6.50	4				3			1
Sciaenidae									
Blenniidae	2.40-8.90	3	8	4	5	5	14	2	11
Tetraodontiformes									
Clupeiformes	4.20-11.30	20	52	25	50	104	72		2
Carangidae									
Gobiidae									
Pleuronectiformes	2.50								1
Gobiesocidae									
Dactyloscopidae	4.00-5.80		9		2				
Serranidae									
Scorpaenidae									
Atherinidae	7.70							1	
All others	2.50-5.90		1	2	4		3	2	3
Fish eggs	0.68-1.40	5413	6379	395	813	2621	2483	261	201
Total water filtered in m ³		574	586	605	615	590	572	323	300
Total fish larvae		27	70	31	61	112	90	5	18
(larvae/m ³)		(.047)	(.119)	(.051)	(.099)	(.190)	(.157)	(.015)	(.060)
Total fish eggs		5413	6379	395	813	2621	2483	261	201
(eggs/m ³)		(9.433)	(10.886)	(.653)	(1.323)	(4.438)	(4.343)	(.809)	(.670)

^a Flowmeter malfunctioned.

H-221

TABLE H-113

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
23 APRIL 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	2.60-10.90	1	0	3	3	1	40	36	29
Sciaenidae	2.50-4.30					2	1	11	21
Blenniidae	1.50-13.50	3	61	9	32	108	5	53	127
Tetraodontiformes	2.90-9.50			1	1	13	147	14	11
Clupeiformes	4.90-17.90	68	106	279	459	74	87	160	101
Carangidae	2.40-6.60	6	7	4		64	107	55	56
Gobiidae	9.30								1
Pleuronectiformes	4.90						1		
Gobiesocidae	2.50-3.60		1	1			1		1
Dactyloscopidae	5.50-7.20	1				2	5		
Serranidae	3.50								1
Scorpaenidae	4.40-6.30						1	1	1
Atherinidae	2.90-9.70				3				4
All others	2.20-10.80	15	5	28	37	26	80	32	66
Fish eggs	0.62-3.70	2724	3724	2586	2862	8206	8241	1931	2586
Total water filtered in m ³		473	464	494	461	468	497	363	482
Total fish larvae		94	180	325	534	290	475	362	419
(larvae/m ³)		(.199)	(.388)	(.658)	(1.157)	(.619)	(.991)	(.997)	(.858)
Total fish eggs		2724	3724	2586	2862	8206	8241	1931	2586
(eggs/m ³)		(5.756)	(8.022)	(5.238)	(6.203)	(17.522)	(17.187)	(5.318)	(5.299)

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TABLE H-113
(continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
23 APRIL 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	2.60	30		1					
Sciaenidae	2.60-3.80	11	1						
Blenniidae	1.90-9.20	31	84	13	14	1	1		3
Tetraodontiformes	3.00-7.10	16	6	2					
Clupeiformes	3.20-10.90	90	127	8	13		162		
Carangidae	2.50-6.10	47	67	10	21				
Gobiidae	2.80-4.20		8		1	1			
Pleuronectiformes	2.70				1				
Gobiesocidae	2.70				1				
Dactyloscopidae	5.60-6.50	2			1				
Serranidae									
Scorpaenidae									
Atherinidae	3.20-5.90		1				5		
All others	2.20-6.60	13	6	1	2	29	3		
Fish eggs	0.62-1.18	3448	5689	2034	2862	6758	4551	10	7
Total water filtered in m ³		288	411	346	355	449	474	306	300
Total fish larvae		240	300	35	54	31	171	0	3
(larvae/m ³)		(.834)	(.730)	(.101)	(.152)	(.069)	(.360)	(.000)	(.010)
Total fish eggs		3448	5689	2034	2862	6758	4551	10	7
(eggs/m ³)		(11.984)	(13.851)	(5.877)	(8.055)	(13.532)	(9.594)	(.033)	(.023)

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TABLE H-114

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
4 MAY 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	2.70-10.50	1	7	15	7	3	6	2	9
Sciaenidae									
Blenniidae	2.20-19.80	2	2	2	9	5	8	6	27
Tetraodontiformes	2.50-13.70	2	3	7	8	2	14	2	46
Clupeiformes	3.50-24.00	1	4	7	15	6	18	65	120
Carangidae	4.80-15.80		1		1		1		1
Gobiidae	3.10-10.00			1	1			1	
Pleuronectiformes	4.00-4.30		2						
Gobiesocidae	2.2							1	
Dactyloscopidae	4.30-5.50		3		1		8		5
Serranidae									
Scorpaenidae									
Atherinidae	2.90-5.30	11							
All others	2.00-28.00	3	6	3	4	3	2	2	8
Fish eggs	0.68-2.60	793	644	343	8	1379	1103	482	880
Total water filtered in m ³		623	664	637	677	613	667	726	544
Total fish larvae		20	28	35	46	19	57	79	216
(larvae/m ³)		(.033)	(.042)	(.055)	(.012)	(.031)	(.085)	(.109)	(.397)
Total fish eggs		793	644	343	8	1379	1103	482	880
(eggs/m ³)		(1.327)	(1.066)	(.539)	(.068)	(2.241)	(1.654)	(.664)	(1.620)

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TABLE H-114
(continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
4 MAY 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	1.60-12.10	3	10	4	1		3	6	2
Sciaenidae	3.30-3.70				3				
Blenniidae	2.40-3.70	1		3	1				
Tetraodontiformes	2.00-12.10	10	6	1	4		2	2	2
Clupeiformes	8.00-15.00	5	6	3	2			1	
Carangidae									
Gobiidae	9.70-10.30		2						
Pleuronectiformes	4.30-22.00	1	1						
Gobiesocidae	2.50								2
Dactyloscopidae	4.20-6.40	2	1	6	20				
Serranidae									
Scorpaenidae									
Atherinidae									
All others	2.40-18.50	3	5		6	4		2	2
Fish eggs	0.62-2.60	358	268	640	179	800	950	134	156
Total water filtered in m ³		637	585	643	646	358	406	411	252
Total fish larvae		25	31	17	37	4	5	11	8
(larvae/m ³)		(.039)	(.053)	(.026)	(.057)	(.011)	(.012)	(.027)	(.032)
Total fish eggs		358	268	640	179	800	950	134	156
(eggs/m ³)		(.562)	(.458)	(.996)	(.277)	(2.233)	(2.336)	(.326)	(.618)

H-225

TABLE H-115

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
26 MAY 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	1.70-12.90	14	2	2	19	6	4		
Sciaenidae	2.30-4.80	1		2	1	1	2		
Blenniidae	2.00-4.00		11	3	12	3	1		
Tetraodontiformes	1.80-15.10	11	9	13		11	10		2
Clupeiformes	3.70-10.10	40	26	3	3	11	6		1
Carangidae	9.70-10.50				2				
Gobiidae	2.20-5.00		2	3	1				2
Pleuronectiformes	17.70			1					
Gobiesocidae	2.50	1					1		
Dactyloscopidae	3.70-4.70	14	14	2	2		3		4
Serranidae									
Scorpaenidae									
Atherinidae									
All others	2.00-15.10	6	14	1	22	11	14	7	4
Fish eggs	0.62-3.47	4827	3689	4548	5602	3000	7309	1103	5620
Total water filtered in m ³		706	635	592	565	535	567	542	521
Total fish larvae		87	78	29	62	43	41	7	13
(larvae/m ³)		(.123)	(.123)	(.049)	(.110)	(.080)	(.072)	(.013)	(.025)
Total fish eggs		4827	3689	4548	5602	3000	7309	1103	5620
(eggs/m ³)		(6.834)	(5.810)	(7.681)	(9.913)	(5.603)	(12.892)	(2.036)	(10.779)

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TABLE H-115
(continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
26 MAY 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	2.10-4.50		7	8	5				
Sciaenidae	3.50-5.30				3				
Blenniidae	2.50-4.20	1	3		6				
Tetraodontiformes	1.60-15.80	9	4	12	8	1	1	1	
Clupeiformes	4.30-9.70	1	5	20	8				
Carangidae									
Gobiidae	2.20-6.10	2		3					
Pleuronectiformes									
Gobiesocidae									
Dactyloscopidae	3.50-7.10	3		6					
Serranidae									
Scorpaenidae									
Atherinidae	4.50				1				
All others	1.90-6.60	13	2	52	30		2	2	
Fish eggs	0.43-3.91	3068	2793	3586	6965	3827	4585	19	164
Total water filtered in m ³		617	672	568	591	751	595	149	135
Total fish larvae		29	21	101	61	1	3	3	0
(larvae/m ³)		(.047)	(.031)	(.178)	(.103)	(.001)	(.005)	(.020)	(.000)
Total fish eggs		3068	2793	3586	6965	3827	4585	19	164
(eggs/m ³)		(4.974)	(4.155)	(6.313)	(11.781)	(5.096)	(7.703)	(.127)	(1.217)

H-227

TABLE H-116

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
4 JUNE 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	3.50-4.00	1		1	1				
Sciaenidae	4.20						1		
Blenniidae	2.20-3.10							1	1
Tetraodontiformes	3.50-11.40	6	1		3				
Clupeiformes	2.90-15.30	8	1	25	18	4		1	
Carangidae									
Gobiidae	4.00-7.20			2					
Pleuronectiformes									
Gobiesocidae									
Dactyloscopidae									
Serranidae									
Scorpaenidae									
Atherinidae									
All others	1.90-13.70		1		3	2	1		
Fish eggs	0.49-2.60	8137	4930	2655	1620	19136	7206	4344	4586
Total water filtered in m ³		357	402	390	412	382	268	320	375
Total fish larvae (larvae/m ³)		15 (.042)	3 (.007)	28 (.072)	25 (.061)	6 (.016)	2 (.007)	2 (.006)	1 (.003)
Total fish eggs (eggs/m ³)		8137 (22.806)	4930 (12.271)	2655 (6.798)	1620 (3.938)	19136 (50.121)	7206 (26.902)	4344 (13.561)	4586 (12.235)

H-228

TABLE H-116
(continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
4 JUNE 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	3.30-4.70			1	5				
Sciaenidae									
Blenniidae									
Tetraodontiformes	2.00-10.10			1	1	1			
Clupeiformes	5.00-8.40		1	9	24			1	1
Carangidae									
Gobiidae									
Pleuronectiformes									
Gobiesocidae									
Dactyloscopidae	5.00-9.70			3	1				
Serranidae									
Scorpaenidae									
Atherinidae									
All others	3.50			1					
Fish eggs	0.560-0.930	6102	8792	2310	2310	62	112	1965	1206
Total water filtered in m ³		287	160	437	417	275	287	391	389
Total fish larvae (larvae/m ³)		0 (.000)	1 (.006)	13 (.030)	31 (.074)	1 (.004)	0 (.000)	1 (.003)	1 (.003)
Total fish eggs (eggs/m ³)		6102 (21.244)	8792 (54.883)	2310 (5.286)	2310 (5.541)	62 (.226)	112 (.390)	1965 (5.022)	1206 (3.010)

H-229

TABLE H-117

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
22 JUNE 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	3.30-10.80		2	2	3			2	
Sciaenidae	3.00-6.60			2	1		1	2	
Blenniidae	3.10-12.40				3	1	1	2	
Tetraodontiformes	4.30-8.50	3		1				1	1
Clupeiformes	2.50-16.00	4	8	13	14	1	3	17	4
Carangidae	18.00			1					
Gobiidae	4.50				1				
Pleuronectiformes									
Gobiesocidae									
Dactyloscopidae	5.60						1		
Serranidae									
Scorpaenidae	8.20			1					
Atherinidae	3.10-13.70			2	1			2	5
All others	2.50-5.10			3	4		1	1	
Fish eggs	0.56-1.69	1827	1518	379	862	3103	2689	1621	1500
Total water filtered in m ³		266	316	257	269	207	216	246	252
Total fish larvae		7	10	25	27	2	7	27	10
(larvae/m ³)		(.026)	(.032)	(.970)	(.101)	(.010)	(.032)	(.110)	(.040)
Total fish eggs		1827	1518	379	862	3103	2689	1621	1500
(eggs/m ³)		(6.857)	(4.803)	(1.474)	(3.209)	(15.004)	(12.425)	(6.588)	(5.948)

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TABLE H-117
(continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
22 JUNE 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	7.60-11.10		1	1	2				
Sciaenidae	2.20-3.70				1		1	1	
Blenniidae	2.00								1
Tetraodontiformes	9.70	1							
Clupeiformes	4.30-8.40	20	21	1		1	1	1	
Carangidae									
Gobiidae	4.80			1					
Pleuronectiformes	1.80-2.20						3		
Gobiesocidae	3.20					1			
Dactyloscopidae	5.00					1			
Serranidae	2.40							1	
Scorpaenidae	2.50						1		
Atherinidae	3.40-6.90	4		3					
All others	2.00-5.60	2		1		1			1
Fish eggs	0.56-1.70	7965	2448	2140	1843	931	276	379	284
Total water filtered in m ³		254	257	226	220	535	428	381	275
Total fish larvae		27	22	7	3	4	6	3	2
(larvae/m ³)		(.106)	(.085)	(.031)	(.014)	(.007)	(.014)	(.008)	(.007)
Total fish eggs		7965	2448	2140	1843	931	276	379	284
(eggs/m ³)		(31.384)	(9.508)	(9.482)	(8.395)	(1.740)	(.644)	(.994)	(1.030)

H-231

TABLE H-118

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
2 JULY 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	2.90-11.80	1			3	10	1	1	
Sciaenidae	3.20				1				
Blenniidae	2.80-12.20	6	10	3	12	6	1	6	5
Tetraodontiformes	2.10-11.30	1					1	1	1
Clupeiformes	5.30-13.80	6	6	7	34	13	1	1	
Carangidae	3.50-29.0							2	
Gobiidae	3.70-16.60	1		2					
Pleuronectiformes	19.30				1				
Gobiesocidae	4.20		1						
Dactyloscopidae	5.60-10.80			1	3				1
Serranidae									
Scorpaenidae	3.90-9.20			1	3		1		
Atherinidae	3.40-6.90			5	8				
All others	2.70-12.60	1		1	7	3	6	1	
Fish eggs	0.68-1.98	113	255	5473	1039	422	427	586	676
Total water filtered in m ³		241	224	337	281	361	303	224	233
Total fish larvae		16	17	21	72	32	11	12	7
(larvae/m ³)		(.066)	(.076)	(.062)	(.256)	(.089)	(.036)	(.054)	(.030)
Total fish eggs		113	255	5473	1039	422	427	586	676
(eggs/m ³)		(.470)	(1.138)	(1.624)	(3.697)	(1.167)	(1.409)	(2.613)	(2.906)

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TABLE H-118
(continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
2 JULY 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	3.70-11.30	4	2		1				
Sciaenidae	4.40-8.20		1	1	1				
Blenniidae	3.30-13.20	6	5	4	2				
Tetraodontiformes	6.60-11.30			1	4				
Clupeiformes	5.20-11.90	2	9	1				2	
Carangidae	2.00-18.70			1	3				
Gobiidae	2.90-8.40	2		1				4	1
Pleuronectiformes	8.20-10.50				2				
Gobiesocidae									
Dactyloscopidae	8.10								
Serranidae									
Scorpaenidae									
Atherinidae	3.50-5.40	3	1	3	3				
All others	3.00-12.10	5	8	3	3				
Fish eggs	0.62-2.05	874	1516	764	1368	0	2	71	98
Total water filtered in m ³		318	317	504	420	482	393	351	335
Total fish larvae		22	26	15	19	0	0	6	1
(larvae/m ³)		(.069)	(.082)	(.030)	(.045)	(.000)	(.000)	(.017)	(.003)
Total fish eggs		874	1516	764	1368	0	2	71	98
(eggs/m ³)		(2.745)	(4.782)	(1.516)	(3.255)	(.000)	(.005)	(.302)	(.293)

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TABLE H-119

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
16 JULY 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	2.70-11.60	5	13	1	5		1	3	4
Sciaenidae	2.50-6.40					9		6	1
Blenniidae	2.40-6.60	1	3			3	3	1	6
Tetraodontiformes	1.90-13.40	27	15	3	5	2	4	6	6
Clupeiformes	6.00-17.00	1	17	1	3			9	4
Carangidae	10.50-10.80	1							4
Gobiidae	2.70-14.00		3					10	1
Pleuronectiformes	3.20-4.60							3	1
Gobiesocidae									
Dactyloscopidae	3.50-5.00		2		1				
Serranidae	3.10-5.30	12				1			
Scorpaenidae									
Atherinidae	3.20-8.90	5	6	1	2			3	3
All others	2.20-11.40	15	39	2	10	1	10	14	24
Fish eggs	0.62-3.53	9260	9764	5852	7630	3356	2655	620	275
Total water filtered in m ³		544	560	466	530	507	528	321	380
Total fish larvae		67	98	8	26	16	18	55	54
(larvae/m ³)		(.123)	(.175)	(.017)	(.049)	(.032)	(.034)	(.171)	(.142)
Total fish eggs		9260	9764	5852	7630	3356	2655	620	275
(eggs/m ³)		(17.030)	(17.427)	(12.557)	(4.958)	(6.617)	(5.028)	(1.930)	(.723)

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TABLE H-119
(continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
16 JULY 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	3.70-4.50			1	2				
Sciaenidae	3.10					1			
Blenniidae	3.00-4.00	1		1					
Tetraodontiformes	2.60-14.00	4		6	3				
Clupeiformes	6.10-13.70	2		2					
Carangidae									
Gobiidae	2.70-15.00	7		1	1				
Pleuronectiformes									
Gobiesocidae									
Dactyloscopidae									
Serranidae	2.90	1							
Scorpaenidae									
Atherinidae	3.70-5.80	1		1	2				
All others	2.10-5.20	12	35	2	5				1
Fish eggs	0.62-1.86	1053	1792	7625	6438	1937	1103	97	10
Total water filtered in m ³		480	492	514	555	435	436	313	278
Total fish larvae		28	35	14	13	1	0	0	1
(larvae/m ³)		(.058)	(.071)	(.027)	(.023)	(.002)	(.000)	(.000)	(.004)
Total fish eggs		1053	1792	7625	6438	1937	1103	97	10
(eggs/m ³)		(2.194)	(3.641)	(14.838)	(11.591)	(4.504)	(2.590)	(.310)	(.036)

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TABLE H-120

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
4 AUGUST 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A ^a	1-B	2-A	2-B	3-A	3-B
Gerreidae	3.20-11.10	3	3			2		15	2
Sciaenidae	3.20-5.10						2	10	
Blenniidae	3.20-10.30		2				1	17	1
Tetraodontiformes	2.30-12.40	7	7				1	6	1
Clupeiformes	3.50-8.90	4	13		4		4	142	17
Carangidae	2.80-3.40				1			2	1
Gobiidae	9.60-15.00					1	1		
Pleuronectiformes	3.50-23.00	1					3	2	
Gobiesocidae	3.00							1	
Dactyloscopidae									
Serranidae									
Scorpaenidae	4.40							1	
Atherinidae	3.20-5.60				1	1	1	8	
All others	2.30-8.70	2	2			2	1	17	4
Fish eggs	0.68-2.91	1088	1125		508	138	172	324	870
Total water filtered in m ³		276	327		248	155	182	308	303
Total fish larvae (larvae/m ³)		17 (.069)	27 (.067)		6 (.024)	6 (.039)	14 (.077)	221 (.717)	26 (.086)
Total fish eggs (eggs/m ³)		1088 (3.937)	1125 (3.440)		508 (2.046)	138 (.888)	172 (.944)	324 (1.050)	870 (2.871)

^a Sample lost in shipment.

TABLE H-120
(Continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
4 AUGUST 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A ^a	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	3.00-5.20		3				2		
Sciaenidae	3.20-5.80		2	2				1	
Blenniidae	2.70-8.50		1	1				1	
Tetraodontiformes	3.40-14.00		4	1	1				
Clupeiformes	3.20-9.30		33		7				
Carangidae	3.10			1					
Gobiidae	16.00			1					
Pleuronectiformes	3.70					1			
Gobiesocidae									
Dactyloscopidae									
Serranidae	3.40		1						
Scorpaenidae									
Atherinidae	3.10-12.20		5	2					
All others	3.40-6.30		5						
Fish eggs	0.62-2.48		1438	173	310	187	333	15	10
Total water filtered in m ³			318	169	214	252	307	275	273
Total fish larvae			54	8	8	1	2	2	0
(larvae/m ³)			(.170)	(.041)	(.037)	(.004)	(.010)	(.007)	(.000)
Total fish eggs			1438	173	310	187	333	15	10
(eggs/m ³)			(4.518)	(1.024)	(1.446)	(.767)	(1.085)	(.055)	(.033)

^a Sample lost in shipment.

TABLE H-121

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
20 AUGUST 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	2.20-5.60	4	3			17	39	43	67
Sciaenidae									
Blenniidae	2.20-5.50				1	4	2	3	18
Tetraodontiformes	1.80-14.80	1	3	1				1	1
Clupeiformes	2.40-8.40	1	2	1	8	3	8	18	3
Carangidae	2.50-5.20	2			2		1	4	2
Gobiidae	2.60-5.80						1	1	2
Pleuronectiformes	1.90-4.10		2	1	7				
Gobiesocidae	1.90-2.40				1	1		1	
Dactyloscopidae	4.30-6.80								6
Serranidae									
Scorpaenidae									
Atherinidae	5.20							1	
All others	1.80-19.00	3			6	17	26	30	21
Fish eggs	0.56-1.74	39	720	3461	3413	1429	965	2293	2421
Total water filtered in m ³		578	550	478	551	550	403	473	432
Total fish larvae (larvae/m ³)		11 (.019)	10 (.018)	3 (.006)	25 (.047)	42 (.076)	77 (.191)	102 (.215)	120 (.278)
Total fish eggs (eggs/m ³)		39 (.067)	720 (1.309)	3461 (7.241)	3413 (6.192)	1429 (2.599)	965 (2.395)	2293 (4.844)	2421 (5.607)

TABLE H-121
(continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
20 AUGUST 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	2.10-4.50	20	60	4	7				
Sciaenidae									
Blenniidae	2.10-2.90		1		2	1	4		
Tetraodontiformes	36.00	1							
Clupeiformes	2.40-8.90		3	1	5	19	19		
Carangidae	4.00-4.80	2							
Gobiidae									
Pleuronectiformes	1.90-2.90		2		2	1	1		
Gobiesocidae									
Dactyloscopidae	2.40-5.00		2						
Serranidae									
Scorpaenidae									
Atherinidae									
All others	1.70-5.30	3	17	6	9	1			
Fish eggs	0.62-1.67	843	1043	1118	1645	1000	1451	7	10
Total water filtered in m ³		491	479	450	263	272	356	381	358
Total fish larvae		26	85	11	25	22	24	0	0
(larvae/m ³)		(.053)	(.177)	(.024)	(.095)	(.081)	(.067)	(.000)	(.000)
Total fish eggs		843	1043	1118	1645	1000	1451	7	10
(eggs/m ³)		(1.718)	(2.176)	(2.484)	(6.247)	(3.677)	(2.892)	(.018)	(.028)

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TABLE H-122

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
9 SEPTEMBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	2.00-11.30	29	89	67	78	1	5	9	8
Sciaenidae	1.90-5.30	10	17		1			5	
Blenniidae	1.90-3.70		11	1	3	1			2
Tetraodontiformes	2.40-6.30						1	1	1
Clupeiformes	3.20-7.40	5	5	9	11		1	2	1
Carangidae	1.70-10.50	10	20	1	6	1	8	9	3
Gobiidae	2.90-8.70		2						
Pleuronectiformes	1.90-4.30	14	13	9	7		7		
Gobiesocidae									
Dactyloscopidae	3.20-9.30		8	7	5	1	1		1
Serranidae	3.10								1
Scorpaenidae									
Atherinidae	2.60-3.30	1					3		
All others	3.70-77.60					1			1
Fish eggs	0.62-2.60	1172	935	313	552	449	322	1049	839
Total water filtered in m ³		551	708	577	731	469	538	530	529
Total fish larvae		69	165	94	111	5	26	26	18
(larvae/m ³)		(.125)	(.233)	(.163)	(.152)	(.011)	(.048)	(.049)	(.036)
Total fish eggs		1172	935	313	552	449	322	1049	839
(eggs/m ³)		(2.126)	(1.321)	(.543)	(.756)	(.957)	(.599)	(1.980)	(1.586)

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TABLE H-122
(Continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
9 SEPTEMBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	2.70-6.60	52	41						
Sciaenidae	4.00		1						
Blenniidae	2.30							1	
Tetraodontiformes	2.20	1							
Clupeiformes	2.10-7.70	10	4	1	1	1	3		
Carangidae	2.10-2.70	1	2						
Gobiidae									
Pleuronectiformes	1.80-3.70	1	3	7	19				
Gobiesocidae									
Dactyloscopidae	3.20-4.80	3	1						
Serranidae									
Scorpaenidae									
Atherinidae	3.10-4.00	1	1						
All others	6.80	1				4			
Fish eggs	0.62-2.48	548	571	354	305	1060	3627	34	17
Total water filtered in m ³		515	631	557	515	369	323	148	302
Total fish larvae		70	53	8	20	4	3	1	0
(larvae/m ³)		(.136)	(.084)	(.014)	(.039)	(.011)	(.009)	(.007)	(.000)
Total fish eggs		548	571	354	305	1060	3627	34	17
(eggs/m ³)		(1.063)	(.906)	(2.705)	(.592)	(.281)	(11.226)	(.230)	(.056)

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TABLE H-123

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
23 SEPTEMBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	2.30-12.60	1548	285	73	27	1126	334	1955	365
Sciaenidae	2.20-6.40	315	552	294	145	190	41	81	35
Blenniidae	2.30-8.50					1	11	2	
Tetraodontiformes	2.30-19.80	4	4	3	1	4	11	16	24
Clupeiformes	3.50-15.50	137	104	50	11	65	32	22	8
Carangidae	1.90-25.00	611	411	38	9	348	118	618	114
Gobiidae	15.00	1							
Pleuronectiformes	2.00-4.20	5	3	24	12		2		1
Gobiesocidae	2.40-4.50	3			2		1	1	1
Dactyloscopidae	3.50-11.60	6	2	2		1			
Serranidae	3.50-4.50		114						
Scorpaenidae	2.60-7.40						15		
Atherinidae	2.80-11.80	3	1	2		8	7	2	1
All others	1.60-9.70	80	52	23	7	18	18	66	22
Fish eggs	0.62-2.36	419	366	8	145	1927	566	509	200
Total water filtered in m ³		506	586	378	387	331	387	350	403
Total fish larvae (larvae/m ³)		2713 (5.365)	1528 (2.606)	509 (1.347)	214 (.553)	1761 (5.327)	590 (1.527)	2763 (7.898)	571 (1.416)
Total fish eggs (eggs/m ³)		419 (.828)	366 (.614)	8 (.021)	145 (.385)	1927 (5.819)	566 (1.550)	509 (1.455)	200 (.496)

TABLE H-123
(Continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
23 SEPTEMBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	2.20-12.20	449	288	142	42				
Sciaenidae	2.20-6.40	463	334	183	310				
Blenniidae	2.50-7.00	19		1	1	1		1	1
Tetraodontiformes	2.70-7.70	6	4	16	4				
Clupeiformes	2.10-16.10	209	142	15	15	143	126		
Carangidae	2.20-27.00	860	289	424	384				
Gobiidae	5.80-9.00		2						
Pleuronectiformes	2.00-12.20	2		3	2	4			
Gobiesocidae	2.10-5.10		3	2	1				
Dactyloscopidae	4.00-9.00		6	3	6				
Serranidae	2.90-3.60	8		1					
Scorpaenidae	2.50				1				
Atherinidae	2.90-11.40	9	2						
All others	2.20-9.50	65	24	24	20			1	
Fish eggs	0.62-1.67		31	285	71	1284	1500		4
Total water filtered in m ³		383	506	497	495	324	415	329	292
Total fish larvae		2090	1094	814	786	148	126	2	1
(larvae/m ³)		(5.459)	(2.164)	(1.639)	(1.587)	(.457)	(.304)	(.006)	(.003)
Total fish eggs		0	31	285	71	1284	1500	0	4
(eggs/m ³)		(.000)	(0.610)	(.574)	(.143)	(3.968)	(3.615)	(0.000)	(.014)

H-243

TABLE H-124

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
20 OCTOBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	2.20-10.30		1					3	
Sciaenidae	1.90-6.40			4	3	5	5		5
Blenniidae	1.90-5.10		5			152	116	1	13
Tetraodontiformes									
Clupeiformes	2.40-13.00		2	5	10	34	17	8	6
Carangidae	2.50						1		
Gobiidae	1.90-2.20					1			
Pleuronectiformes	1.90-3.20	5	14	4	2	2	3	11	8
Gobiesocidae	5.60								1
Dactyloscopidae	2.00-5.10					4	11	6	
Serranidae									
Scorpaenidae									
Atherinidae	1.90-11.40			9	8			1	
All others	1.80-14.00	1		1	2	5	5		
Fish eggs	0.62-3.10	111	140	35	34	368	625	16	33
Total water filtered in m ³		552	628	511	636	583	630	530	573
Total fish larvae		6	22	23	25	203	148	30	33
(larvae/m ³)		(.011)	(.035)	(.045)	(.039)	(.341)	(.235)	(.058)	(.058)
Total fish eggs		111	140	35	34	368	625	16	33
(eggs/m ³)		(.201)	(.223)	(.068)	(.053)	(.681)	(.992)	(.030)	(.058)

H-244

TABLE H-124
(Continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
20 OCTOBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae									
Sciaenidae	1.90-37.00	25	16					1	
Blenniidae	1.70-6.60	24	23	6	2		1		
Tetraodontiformes	3.90-22.00	2			3		1		
Clupeiformes	2.40-67.00	100	54			1		34	11
Carangidae	23.00-32.00						1	1	1
Gobiidae	2.20	1							
Pleuronectiformes	1.60-4.80	18	9				4	3	
Gobiesocidae	5.60	1							
Dactyloscopidae	3.70			1					
Serranidae									
Scorpaenidae	10.8	1							
Atherinidae	6.40-10.00							3	3
All others	2.00-9.00	2	1		2				
Fish eggs	0.62-3.10	34	34	161	344	25	43	14	19
Total water filtered in m ³		580	644	564	547	447	323	365	292
Total fish larvae		174	103	7	7	1	7	42	15
(larvae/m ³)		(.305)	(.160)	(.012)	(.013)	(.002)	(.022)	(.115)	(.051)
Total fish eggs		34	34	161	344	25	43	14	19
(eggs/m ³)		(.058)	(.053)	(.286)	(.629)	(.056)	(.133)	(.038)	(.065)

H-245

TABLE H-125

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
28 OCTOBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	3.10-11.30	1	1						
Sciaenidae									
Blenniidae	2.50-5.30		1	10		1	2	2	
Tetraodontiformes	3.10-6.60				1		1		
Clupeiformes	3.00-8.50	1	1	11	9	16	10	3	2
Carangidae									
Gobiidae	2.70							1	
Pleuronectiformes	1.90-4.20	2	4	15	9	4	6	2	2
Gobiesocidae									
Dactyloscopidae	4.80-10.80			1		1		1	
Serranidae									
Scorpaenidae									
Atherinidae									
All others	2.10-6.40		1			2	4	1	1
Fish eggs	0.68-1.24	190	156	345	127	34	31	9	2
Total water filtered in m ³		680	685	644	554	570	516	586	552
Total fish larvae		4	8	37	19	24	23	10	5
(larvae/m ³)		(.006)	(.012)	(.057)	(.034)	(.042)	(.044)	(.017)	(.013)
Total fish eggs		190	156	345	127	34	31	9	2
(eggs/m ³)		(.279)	(.228)	(.536)	(.229)	(.060)	(.060)	(.015)	(.004)

H-2463

TABLE H-125
(Continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
28 OCTOBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A ^a	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	6.30-7.20		1	1					
Sciaenidae	4.80			1					
Blenniidae	2.30-3.70		14	9	6				
Tetraodontiformes									
Clupeiformes	4.00-9.30		31	5	1				
Carangidae									
Gobiidae									
Pleuronectiformes	2.40-4.00		5					1	1
Gobiesocidae									
Dactyloscopidae	4.00-5.60		1	1					
Serranidae									
Scorpaenidae									
Atherinidae									
All others									
Fish eggs	0.62-1.80		30	56	45	25	35	0	3
Total water filtered in m ³			609	550	529	667	517	399	334
Total fish larvae			52	17	7	0	0	1	1
(larvae/m ³)			(.084)	(.031)	(.013)	(.000)	(.000)	(.002)	(.003)
Total fish eggs			30	56	45	25	35	0	3
(eggs/m ³)			(.049)	(.102)	(.085)	(.037)	(.068)	(.000)	(.009)

^a Sample lost in shipment.

TABLE H-126

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
5 NOVEMBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A	2-B	3-A	3-B
Gerreidae	10.60-12.00	1							1
Sciaenidae									
Blenniidae	2.40-9.30	6		2	4				2
Tetraodontiformes	25.00					1			
Clupeiformes	4.00-13.40	2		5	4				
Carangidae									
Gobiidae									
Pleuronectiformes									
Gobiesocidae									
Dactyloscopidae	4.30-5.20					3	1	1	
Serranidae									
Scorpaenidae									
Atherinidae									
All others	2.20-3.00	1	10	1					
Fish eggs	0.62-1.80	168	164	254	43	492	697	629	606
Total water filtered in m ³		654	686	553	531	558	527	560	606
Total fish larvae		10	10	8	8	4	1	1	3
(larvae/m ³)		(.015)	(.014)	(.014)	(.015)	(.007)	(.002)	(.002)	(.005)
Total fish eggs		168	164	254	43	492	697	629	897
(eggs/m ³)		(.257)	(.239)	(.460)	(.081)	(.882)	(1.322)	(1.123)	(1.480)

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TABLE H-126
(Continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
5 NOVEMBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae									
Sciaenidae									
Blenniidae	2.30-5.20		1	1	4				1
Tetraodontiformes									
Clupeiformes	4.30-17.20	3	1	2	1				
Carangidae	5.60-6.90		2						
Gobiidae	13.70-14.20							2	
Pleuronectiformes									
Gobiesocidae									
Dactyloscopidae	4.20-7.60	1	2		2				
Serranidae									
Scorpaenidae									
Atherinidae									
All others	2.60		1						
Fish eggs	0.62-1.24	586	923	308	1097	62	71	13	22
Total water filtered in m ³		566	536	526	522	360	325	319	352
Total fish larvae		4	7	3	7	0	0	2	1
(larvae/m ³)		(.007)	(.013)	(.006)	(.013)	(.000)	(.000)	(.006)	(.003)
Total fish eggs		586	923	308	1097	62	71	13	22
(eggs/m ³)		(1.035)	(1.721)	(.585)	(2.102)	(.231)	(.218)	(.041)	(.062)

H-249

TABLE H-127

NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
19 NOVEMBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		0-A	0-B	1-A	1-B	2-A ^a	2-B	3-A	3-B
Gerreidae	2.40-12.10		1				6	9	8
Sciaenidae	3.90-7.20			1			3	10	1
Blenniidae	8.40				1				
Tetraodontiformes	2.30-13.70						1		3
Clupeiformes	4.00-8.40		1		3		2		
Carangidae	5.30-7.40						2	2	3
Gobiidae									
Pleuronectiformes									
Gobiesocidae									
Dactyloscopidae	4.00-7.40						14	11	12
Serranidae									
Scorpaenidae									
Atherinidae									
All others	2.30-8.50	1		1	1		2	1	3
Fish eggs	0.62-2.60	32	48	363	200		407	179	438
Total water filtered in m ³		635	588	562	525		492	538	593
Total fish larvae		1	2	2	5		30	33	30
(larvae/m ³)		(.002)	(.003)	(.004)	(.010)		(.061)	(.061)	(.051)
Total fish eggs		32	48	363	200		407	179	438
(eggs/m ³)		(.050)	(.082)	(.701)	(.381)		(.827)	(.333)	(.739)

H-250

TABLE H-127
(Continued)
NUMBER OF FISH LARVAE AND EGGS COLLECTED
ST. LUCIE PLANT
19 NOVEMBER 1976

Category	Range of total lengths (mm)	Station-replicate							
		4-A	4-B	5-A	5-B	11-A	11-B	12-A	12-B
Gerreidae	2.40-5.80			5	2			1	
Sciaenidae	3.50-4.80			8	3				
Blenniidae	2.00-2.20								2
Tetraodontiformes	2.40-2.70	1			1				
Clupeiformes	3.10-6.60			2	1				
Carangidae	4.20	1							
Gobiidae									
Pleuronectiformes									
Gobiesocidae	3.10			1					
Dactyloscopidae	4.80-7.20	8	15	8	1				
Serranidae									
Scorpaenidae									
Atherinidae									
All others	3.20-9.10	4	1	3					
Fish eggs	0.62-3.38	750	571	521	8	2	4	8	13
Total water filtered in m ³		409	466	521	474	400	318	318	278
Total fish larvae		14	16	27	8	0	0	1	2
(larvae/m ³)		(.034)	(.034)	(.052)	(.017)	(.000)	(.000)	(.003)	(.007)
Total fish eggs		750	571	581	215	2	4	8	13
(eggs/m ³)		(1.833)	(1.225)	(1.114)	(.454)	(.005)	(.009)	(.025)	(.047)

^a Sample lost in shipment.

TABLE H-128
NUMBER OF MACROINVERTEBRATES COLLECTED BY BENTHIC GRASS
BY STATION AND QUARTER
ST. LUCIE PLANT
1976

Species	Quarter and station																	
	1st Quarter					2nd Quarter					3rd Quarter							
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
PLATYHELMINTHES																		
unidentified species	1		8		6	4	14		8		4	6	12		11		23	2
NEMERTINA																		
unidentified species	6		70		25	13	37	10	36	4	8	134	20	12	11	3	61	47
ANNELIDA																		
Polychaeta																		
Polynoidae																		
Harmothoe spp.									1	1			6					
Lepidonotus sp. A						1												
Subadyte pellucida											1							
unidentified species					1				2									
Sigalionidae																		
Paramolyce arenosa						1	1										1	
Sigalion arenosa				4														
Sthenelate sp. A															2			
unidentified species									5					1	12		2	3
Palmyridae																		
Palaemonotus heteroseta	2		1						2								1	1
Pistionidae																		
Pistone remota			1		1										1			
Amphinoaidae																		
Paramphinoe pulchella	2																	
Pseudosurythoe paucibranchiata			1			2						1						
Pseudosurythoe sp. A												1						
Phyllodoceidae																		
Eulalia bilineata						1	1						3					
E. macroceros	3				1													
E. sanguinea	1								2								1	
Eulalia spp.																		1
Hesionura elongata																2		
Paranaites kosteriensis																9		
Phyllodoce castanea																1		
P. fragilis							1									3		1
P. maderiensis	2					1										1		
P. mucosa																1		
Phyllodoce spp.						1	1											
Protomyxides bidentata					4						1	3	1				3	1
unidentified species	1		1		2		3		2								1	
Pilargidae																		
Anicetrostylis carolinensis									8									
A. harata							1				2	1					2	
A. hartmannae						4	1		20		10	26	4		8		16	9
A. jonesi											3		1				2	
A. papillosa							1						1					
Anicetrostylis spp.						1									1			
Pilargis sp. A						1												
Synelmis albini						1					1	6				2		1

TABLE H-128
(continued)
NUMBER OF MACROINVERTEBRATES COLLECTED BY BENTHIC GRABS
BY STATION AND QUARTER
ST. LUCIE PLANT
1976

Species	Quarter and station																	
	1st Quarter					2nd Quarter					3rd Quarter							
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
ANNELIDA																		
Polychaeta (continued)																		
Hesionidae																		
<i>Cyrtis vitatta</i>						1												
<i>Microphthalmus</i> sp. A						2		2				2	1		8			3
<i>Microphthalmus</i> sp. B												8			2			3
<i>Nerimya punctata</i>					1													
<i>Ophiodromus obscurus</i>	1				4	8	20		3		3	1	2				3	2
<i>Ophiodromus</i> sp. A					1	7	6		3		1	34	12		21		12	22
<i>Ophiodromus</i> sp. B										1	1				2			
<i>Ophiodromus</i> sp. C						4	5		9			5	2		6			7
unidentified species	1		11								2						1	
Syllidae																		
<i>Amblyosyllis</i> sp.											1							
<i>Autolytus inermis</i>											1							
<i>A. prolifer</i>											1							
<i>Autolytus</i> spp.			1			1												
<i>Brania</i> spp.			3		6	2		8			2				1			1
<i>Daryosyllis brevipes</i>			14		2	3	13	16		6	12				60		4	34
<i>E. heterocirrata</i>	5		4		4	2		7		1	7	44	9		24		31	14
<i>E. lamelligera</i>			5							2					19		3	25
<i>Exogone dispar</i>	30		20		19	18	100	34				5	99		31		25	19
<i>E. gemmifera</i>						1	5				8		6					
<i>E. verugera</i>											2							
<i>Odontosyllis</i> spp.		2						2			13		1		7			13
<i>Parapionosyllis</i> spp.	22		16		6	9	63	28	3	7	33	28			56	6	56	15
<i>Pionosyllis</i> cf. <i>uraga</i>			1		1		5	7		3		3						
<i>Proceras</i> sp. A	2																	
<i>Sphaerosyllis</i> spp.	26		83		8	59	30	157		22	53	50			245	1	124	68
<i>Streptosyllis arenae</i>					7													
<i>S. cf. bidentata</i>																3		
<i>Streptosyllis</i> sp. A			2							2								
<i>Syllides</i> spp.			2					5			5				7			3
<i>Syllis antea</i>			5			8					4	2					2	9
<i>S. cornuta</i>					1	1		1					1					1
<i>S. ferruginea</i>					2													
<i>S. gracilis</i>			1								3	1						
<i>S. hyalina</i>											1	1						4
<i>S. regulata caroliniae</i>	6		17		5	3	17	18			4	13	23		43	1	36	8
<i>S. spongicola</i>													6					
<i>Syllis</i> spp.	1			2														
<i>Trypanosyllis</i> spp.			1		4					1	1		4		2		1	9
unidentified species	43										1	1			1			
Nereidae																		
<i>Ceratonereis irritabilis</i>			1															
<i>Ceratonereis</i> spp.	1																	
<i>Lycaostops</i> sp. A	3				1					1								
<i>Nereis</i> spp.	3				1					2	1	3				4		
<i>Platynereis dumerilii</i>						1												
unidentified species			1				1					2						1
Nephtyidae																		
<i>Nephtys incisa</i>													3			4		
<i>N. squamosa</i>	1				4	5	2	3			2	7	1	5			1	2
<i>Nephtys</i> spp.			2		1	1												

TABLE H-128
(continued)
NUMBER OF MACROINVERTEBRATES COLLECTED BY BENTHIC GRABS
BY STATION AND QUARTER
ST. LUCIE PLANT
1976

Species	Quarter and station																		
	1st Quarter					2nd Quarter					3rd Quarter								
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	
ANNELIDA																			
Polychaeta (continued)																			
Glyceridae																			
<i>Glyceria asymmetrica</i>							1												
<i>G. capitata</i>					5	1										1			
<i>G. oxycephala</i>									1										
<i>G. papillosa</i>																			
<i>G. tessellata</i>							1												
<i>Glyceria</i> sp. A																			
<i>Bentipodus lossus</i>	27		45		55	20	49		25		20	10	7		1	23	1	11	12
Goniadidae																			
<i>Glycinde noronhai</i>								2											
<i>Goniadides caroliniae</i>			1		7	98	51		83		73	178	146			85		40	77
Eunicidae																			
<i>Eunice vitatta</i>	11		19		11		1		9		1	2	22			25		59	7
Onuphiidae																			
<i>Onuphis eremita</i>		1						1									1		
<i>O. quadrilobata</i>						1	7												
unidentified species			2		1							1							
Lumbrineridae																			
<i>Lumbrinerides</i> cf. <i>acuta</i>													2						2
<i>L. cf. coccinea</i>													1			4		1	
<i>L. crassius</i>											1				1				
<i>L. latreilli</i>												1				1			
<i>L. tenuis</i>											1								
<i>Lumbrineris</i> spp.			1								1								
Arabellidae																			
<i>Arabella tricolor</i>																		3	
<i>A. mutans</i>													1						
unidentified species									1										
Dorvilleidae																			
<i>Dorvillea sociabilis</i>						2						1	1						
<i>Protodurvillea kefersteini</i>			23		6	15	5		4		7	35	15			45		3	65
<i>Schistomeringos caeca</i>					3						8								
<i>S. rudolphi</i>			3		3	3			1		4	4	4					11	5
Spionidae																			
<i>Aonides mayaguezensis</i>									1										
<i>Diaplo uicinata</i>	1		1													1			
<i>Diaplo</i> spp.																			
<i>Laonice cirrata</i>	4																		
<i>Malacooceros glutosus</i>												1				1			
<i>Minuspio cirrifera</i>											8								
<i>M. cirrobranchiata</i>						1					1	1	2			1			
<i>M. polybranchiata</i>													3						
<i>Minuspio</i> spp.																			2
<i>Polydora antennata</i>									2										
<i>P. quadrilobata</i>														1					
<i>P. cf. tetrabranchiata</i>									1										
<i>P. websteri</i>	4		1																
<i>P. socialis</i>									1									1	
<i>Polydora</i> spp.																1			
<i>Prionospio cristata</i>	2					1	806		178		5	17	53	3	36		16		8
<i>P. heterobranchia</i>								4											

TABLE H-128
(continued)
NUMBER OF MACROINVERTEBRATES COLLECTED BY BENTHIC GRABS
BY STATION AND QUARTER
ST. LUCIE PLANT
1976

Species	Quarter and station																		
	1st Quarter					2nd Quarter					3rd Quarter								
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	
ANNELIDA																			
Polychaeta																			
Spionidae (continued)																			
<i>Scolecoplepis squarata</i>						1													
<i>Spio</i> cf. <i>setosa</i>										1									
<i>Spio</i> cf. <i>setosa</i>	1					1	2				1		2	2		1			
unidentified species	1		1			3													
Magelonidae																			
<i>Magelona</i> cf. <i>papillicornis</i>															2				
<i>Magelona</i> spp.						3						4				1			1
Acrociiridae																			
<i>Macrochasta</i> spp.			8				2		5		1	12	6		41		17	24	
Cirratulidae																			
<i>Caulerella</i> <i>alatus</i>												1				1			
<i>C.</i> cf. <i>killarlenensis</i>						5			8			1	1		2				1
<i>Cirratulid</i> <i>grandis</i>																			1
<i>Dodecaoceria</i> <i>corallii</i>								1											
<i>Tharyx</i> <i>marioni</i>								1	1		1								
<i>Tharyx</i> spp.			1						4		1	3							2
unidentified species					1														
Fiabelligeridae																			
unidentified species	1																		
Scalibregmidae																			
unidentified species											1								
Poecilochaetidae																			
<i>Poecilochaetus</i> sp. A	2					1	1							1					
Orbinidae																			
<i>Baploscoloplos</i> sp. A			1			1													
<i>Naineris</i> <i>setosa</i>	4																		
<i>Scoloplos</i> cf. <i>ameceps</i>									1										2
<i>S.</i> <i>armiger</i>	1																		
<i>S.</i> <i>rubra</i>							1												
<i>Scoloplos</i> spp.												1							
Paraonidae																			
<i>Aricidea</i> <i>jeffreysii</i>						2			2										2
<i>Aricidea</i> sp. A									2										
<i>Cirrophorus</i> <i>branchiatus</i>									5			5	1		1				
<i>C.</i> <i>lyriformis</i>						2			4										1
<i>Hematonereis</i> sp. A			1			1													
<i>Paraonides</i> cf. <i>lyra</i>									10			3							
<i>Paraonis</i> <i>fulgens</i>											1						1		
Opheliidae																			
<i>Armandia</i> <i>agilis</i>												3			1				
<i>A.</i> <i>maculata</i>			1	2					40	7	20	5	26						
<i>Ophelia</i> <i>denticulata</i>					1		4		6		2	4				3		2	2
<i>O.</i> <i>cylindricaudata</i>										6					2				
unidentified species						1				1							2		
Capitellidae																			
<i>Capitella</i> <i>capitata</i>					1						1				1				
<i>Nastobrancheus</i> sp. A																			
<i>Nedimastus</i> <i>californiensis</i>	2					25	2		82		3	6	44		7		5	37	
<i>Nedimastus</i> <i>latericeus</i>													1		3				
unidentified species	1														1				

TABLE H-128
(continued)
NUMBER OF MACROINVERTEBRATES COLLECTED BY BENTHIC GRASS
BY STATION AND QUARTER
ST. LUCIE PLANT
1976

Species	Quarter and station																	
	1st Quarter					2nd Quarter					3rd Quarter							
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
ANNELIDA																		
Polychaeta (continued)																		
Maldanidae																		
<i>Ariothella mucosa</i>						2				2								
<i>Eulymene</i> sp. A								1										
<i>Macrolophane zonale</i>						1		3										
<i>Microlophane</i> sp. A	4					5			1			5			2			
<i>Petaloproctus terricola</i>																	1	
<i>Rhodine</i> sp. A						1			1			5	6				15	12
unidentified species	1		6		1								1					
Oweniidae																		
<i>Owenia fusiformis</i>						1	1											
Sabellariidae																		
<i>Sabellaria floridensis</i>	4																	
<i>S. vulgaris</i>	1					109	8		1				11		2			1
Ampharetidae																		
<i>Ampharete</i> spp.																		
<i>Teolida pulchella</i>												1			6			3
<i>Sanythella</i> sp. A							2		32				3					
unidentified species							2					1						
Terebellidae																		
<i>Lolmia medusa</i>	108						81		2		1		1					
<i>Polycirrus</i> spp.									1				1				10	
<i>Thalopus</i> sp. A																	1	
unidentified species	1		3			7			5						5			1
Sabellidae																		
<i>Amphiglena</i> sp. A																	44	
<i>Chone</i> sp. A							2		1			2			1			3
<i>Jaemineira</i> sp. A																		
<i>Megalomma bioculatum</i>																		
<i>M. lobiferum</i>	1								1		1	3						
<i>Potamilla</i> sp. A																	8	
unidentified species						1	1		2									
Serpulidae																		
<i>Hydroides bipinnosa</i>						8			4		1		4		5		24	
<i>H. cf. houlifera</i>						1		1	1						23		13	
<i>H. elegans</i>																		
<i>H. cf. parva</i>																		
<i>H. protulicola</i>											6							4
<i>H. uncinata</i>																		
<i>Hydroides</i> sp. A			1												4	11	17	
<i>Metavermilia</i> sp. A	14		35	3	38	52	106		51		16	30	119		82		72	24
<i>Orphalopoma</i> sp. A	241		136		284	74	28		764		337	493	305		622		599	229
<i>Pseudovermilia</i> sp. A			1												2		12	
<i>Serpula vermicularis</i>									3		2							
<i>Spirorbis</i> spp.	44		8	26	214		8		12		56				12	1	5	
unidentified species						1											24	
Polygordilidae																		
<i>Polygordius</i> spp.	419				3	5	35		6		1		1		3		3	2
Protodrilidae																		
<i>Protodrilus</i> sp. A							18				3				19			
<i>Saccocirrus</i> sp. A																		2

TABLE H-128
(continued)
NUMBER OF MACROINVERTEBRATES COLLECTED BY BENTHIC GRASS
BY STATION AND QUARTER
ST. LUCIE PLANT
1976

Species	Quarter and station																		
	1st Quarter					2nd Quarter					3rd Quarter								
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	
ANNELIDA (continued)																			
Oligochaeta																			
<i>Narionia welchi</i>	2					16		16		3		31	45	41		6		14	41
<i>Pelosciolex gabriella</i>						2			34		33	13	32		13		81	76	
<i>Pelosciolex</i> sp. A						1			2		9	4	7		6		10	5	
<i>Oligochaeta</i> sp. A						27	4	23	18		18	118	11		76		4	47	
<i>Oligochaeta</i> sp. B	14					28	7	114	38		25	62	13		21		9	28	
<i>Oligochaeta</i> sp. C							8					20	3		10	1		11	
unidentified species			51																
Hirudinea																			
unidentified species	3																		
MOLLUSCA																			
Gastropoda																			
<i>Acetonecina cande</i>								1											
<i>A. recta</i>			1														1		
<i>Aesopus stearnsii</i>			1				1												
<i>Anachis iontha</i>	1		1							1			4		1				
<i>A. obesa</i>																			
<i>Arena triacarinata</i>	7					2	2	1			1		4		5		2	5	
<i>Balcis concolidea</i>								1					1		2				
<i>Cochitolepis holmesii</i>						1													
<i>Caecum cooperi</i>			2	10	1	3				1		2	1		2	2		1	
<i>C. floridanum</i>			1		3				1		2				1		1		
<i>C. strigosum</i>	107		4		6	1	24		34		7		3		13		13	1	
<i>C. vestitum</i>							3						1						
<i>Calyptrea centralis</i>	5		4			1	2					1	15		13		10	1	
<i>Cerithiopsis</i> sp.																	2		
<i>Crepidula fornicata</i>	18		35		4	147	1		43		4	6	14	2	63	1	5		
<i>C. plana</i>						3							1						
<i>Euliniastraca</i> sp.													1						
<i>Ithyothara pentagonalis</i>													1						
<i>Macromphalina palmaritoris</i>							1						1		2				
<i>Marginella eburneola</i>							3						11					1	
<i>Nitrella lunata</i>																			
<i>Nassarius albus</i>						1													
<i>N. consensu</i>	1				1	1			1		2							5	
<i>Natica pusilla</i>						1						1			1	3			
<i>Ocenebra scalaris</i>			1		1		1								1				
<i>Odostomia (Fargoa) dux</i>																		1	
<i>Oliva sayana</i>																			
<i>Olivella floralia</i>						1	1	1		1		1		2		1			
<i>Polinices lacteus</i>																			
<i>Polygyreulina</i> sp. A	1								1						1		1		
<i>Polygyreulina</i> sp. B													2						
<i>Rissoina oatesbyana</i>						1									1				
<i>Sinur maculatus</i>			1																
<i>Stenia</i> sp.									1										
<i>Teinostoma</i> sp.																			
<i>Tricolia affinis pterocladica</i>													2		1				1
<i>Turbo castanea</i>	5																		
<i>Turbonilla pilsbryi</i>							2												
<i>Turbonilla (Strioturbonilla)</i> sp. B	1														1				

TABLE H-128
(continued)
NUMBER OF MACROINVERTEBRATES COLLECTED BY BENTHIC GRABS
BY STATION AND QUARTER
ST. LUCIE PLANT
1976

Species	Quarter and station																	
	1st Quarter					2nd Quarter					3rd Quarter							
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
MOLLUSCA																		
Gastropoda (continued)																		
<i>Vermetus wendlandi</i>									1						1			1
<i>Zebina browniana</i>									2						6		1	1
Opisthobranchia																		
<i>Onchidella</i> sp.															11			
Scaphopoda																		
<i>Dentalium ocalanus</i>															1		12	1
<i>Dentalium</i> sp.															2			
Amphineura																		
<i>Chastopleura apiculata</i>																		
<i>Ischnochiton hartmayeri</i>																		
<i>I. papillosus</i>																		
<i>Stenoplax boogii</i>																		
Pelecypoda																		
<i>Abra aequalis</i>																		
<i>Aequipecten muscosus</i>																		
<i>Anadara transversa</i>																		
<i>Anomia simplex</i>																		
<i>Argopecten gibbus</i>																		
<i>Barbatia domingensis</i>																		
<i>Chama congregata</i>																		
<i>Chione grisea</i>																		
<i>C. interrupta</i>																		
<i>Corbula barrattiana</i>																		
<i>Corbula</i> sp.																		
<i>Crassidella dupliniana</i>																		
<i>C. lineolata</i>																		
<i>Crenella divaricata</i>																		
<i>Diplothyra smithii</i>																		
<i>Erudilla concentrica</i>																		
<i>Gastropoda hians</i>																		
<i>Glycymeris americana</i>																		
<i>G. spectabilis</i>																		
<i>Gouldia cerina</i>																		
<i>Lasiochlamys</i> sp.																		
<i>Lioberus castaneus</i>																		
<i>Macoma brevisfrons</i>																		
<i>Montacuta</i> sp. A.																		
<i>Noetia ponderosa</i>																		
<i>Nucula proxima</i>																		
<i>Ostrea equestris</i>																		
<i>Pandora bushiana</i>																		
<i>Papyridae soleniformis</i>																		
<i>Parvulucina multilineata</i>																		
<i>Pitar fulminata</i>																		
<i>Pleuromeris tridentata</i>																		
<i>Pteromeris perplana</i>																		
<i>Rasta plicatella</i>																		
<i>Semile bellastrata</i>																		
<i>S. nuculoides</i>																		
<i>Tellina iris</i>																		
<i>Tiula floridana</i>																		

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TABLE H-128
(continued)
NUMBER OF MACROINVERTEBRATES COLLECTED BY BENTHIC GRASS
BY STATION AND QUARTER
ST. LUCIE PLANT
1976

Species	Quarter and station																	
	1st Quarter					2nd Quarter					3rd Quarter							
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
MOLLUSCA																		
Pelecypoda (continued)																		
<i>Trachycardium egyptianum</i>											2							
<i>Varioorbula operculata</i>												1						
ARTHROPODA																		
Ostracoda																		
<i>Ostracoda</i> sp. A							1			10	2		6		32		30	
<i>Ostracoda</i> sp. B	1				1					1					1		1	2
<i>Ostracoda</i> sp. C	2					1									1		3	2
<i>Ostracoda</i> sp. E						1				1							9	
<i>Ostracoda</i> sp. F																		
<i>Ostracoda</i> sp. G			1			1												
<i>Ostracoda</i> sp. H																		
<i>Ostracoda</i> sp. J							6		3		1		5	1	1		3	2
<i>Ostracoda</i> sp. K																		2
<i>Ostracoda</i> sp. L							2											
<i>Ostracoda</i> sp. M	1									4							1	1
<i>Ostracoda</i> sp. N													1					
<i>Ostracoda</i> sp. O																		
<i>Ostracoda</i> sp. P																		
<i>Ostracoda</i> sp. Q																		
<i>Ostracoda</i> sp. R																		
<i>Ostracoda</i> sp. S					2													
Cirripedia																		
<i>Balanus trigonus</i>			2				1		4		20		14		1		99	1
<i>B. vernaetus</i>								2	25		50		103		7		287	38
<i>Balanus</i> sp.			12								15		22		8		1	10
<i>Cirripeds</i> larvae																		
Malacostraca																		
Stomatopoda																		
<i>Stomatopoda</i> sp.							1											
Mysidacea																		
<i>Bosmina</i> sp.																		
<i>Heteromysia formosa</i>							1			1						1		
<i>Mytilus</i> sp.	1																	
Cumacea																		
<i>Cumacea</i> sp. A							3						1	1				
<i>Cumacea</i> sp. B							1		2									
<i>Cumacea</i> sp. C							1		1									
<i>Cumacea</i> sp. D												2						
<i>Cyrtaspis varians</i>							4											
<i>Cyrtaspis smithi</i>							6		1		1						1	
Tanaidacea																		
<i>Apeudes</i> sp. A	1						11				1		5				6	
<i>Heterotanaid</i> sp. A	6		2			1	15						3			1	3	1
<i>Leptochelia</i> sp. A	1						3						1					
<i>Tanaidacea</i> sp. A										1								
Isopoda																		
<i>Anisus depressus</i>					1													
<i>Anthuridae</i> sp.																		
<i>Chiridotea arenicola</i>										1							1	1

TABLE H-128
(continued)
NUMBER OF MACROINVERTEBRATES COLLECTED BY BENTHIC GRABS
BY STATION AND QUARTER
ST. LUCIE PLANT
1976

Species	Quarter and station																	
	1st Quarter					2nd Quarter					3rd Quarter							
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
ARTHROPODA																		
Malacostraca																		
Isopoda (continued)																		
<i>Eurydice littoralis</i>	1	1			2		1		10						1	9		1
<i>Borolomathura irpex</i>								13			3							
<i>Isopoda</i> sp. A	3		13		2		36		12		5		2		9		25	20
<i>Paranthurus formosa</i>	63		5		11	23	39		6		5		13		1		61	1
<i>Xenanthura previtelson</i>		1			1			1										
Amphipoda																		
<i>Acanthohaustorius</i> sp. A										1								
<i>Colonastix halichondriae</i>					2													
<i>Elasmopus</i> sp. A	4		2		2		4		3		2	2	13		8		5	2
<i>Elasmopus</i> ? sp. A																		
<i>Erichthonius</i> sp. A					1	1	2						1					
<i>Eriopisa</i> ? sp. A		1	1		1				4								1	
<i>Hamigegina minuta</i>						1			1									
<i>Ingolliella</i> n. sp.	6						10						1					
<i>Jeddo</i> ? sp. A												1						
<i>Lemboemithi</i>																		1
<i>Liljeborgia</i> sp. A	1				3		1								7			1
<i>Maera</i> sp. A	1								11		2		1				8	7
<i>Megaluropus</i> sp. A	1	1	4		2		2		1		2		1					1
<i>Nelita appendiculata</i>						1												
<i>Nelita</i> sp. A	5				1		2		10				4		3		10	
<i>Microdeutopus</i> sp. A						5	5					11						
<i>Microdeutopus</i> ? sp. A									7		12		9					1
<i>Photis</i> sp. A		3	3				1				1							
<i>Photis</i> sp. B									2			2						
<i>Pontogenia longlegi</i>													7					
<i>Protholastorius</i> sp. A										9							10	
<i>Pseudoplatyschopus</i> sp. A		2		1									3	12				
<i>Pseudocicla</i> sp. A	2					13		3		2			9					
<i>Synchelidion americanum</i>		2		1		3	1											
<i>Synopla ultramarina</i>													1				1	
<i>Tiron</i> sp. A		2	1				7	9		3			5	1	3		7	4
<i>Trichophorus</i> sp. A				2				4			15			2		22		
<i>Trichophorus</i> sp. B							4			4				2				
Decapoda																		
<i>Alpheida</i> sp.																		1
<i>Alpheus normani</i>						1												
<i>Alpheus</i> sp.						2							6					
<i>Brachyuran</i> postlarvae					1					1	1		10	2	2		3	1
<i>Callinassa</i> sp.							1							1				
<i>Caridea</i> sp.													2					
<i>Crab megalopa</i>	6				1		5	2					2	2				
<i>Dissodactylus mellita</i>											1							
<i>Eucercanus praelongus</i>																1		
<i>Euryplax nitida</i>							6	3		1			5		2			
<i>Hepatus</i> sp.													1					
<i>Hypoconcha arcuata</i>									3									
<i>Latreutes parvulus</i>							2											
<i>Leptochela papulata</i>					1													
<i>Lucifer faxoni</i>						1												

TABLE H-128
(continued)
NUMBER OF MACROINVERTEBRATES COLLECTED BY BENTHIC GRABS
BY STATION AND QUARTER
ST. LUCIE PLANT
1976

Species	Quarter and station																		
	1st Quarter					2nd Quarter					3rd Quarter								
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	
ARTHROPODA																			
Malacostraca																			
Decapoda (continued)																			
Majidae sp.																			
Ogyridae sp.			1																
Paguridea sp.									2									1	
Paguristes huxleyi									2						1				
Pagurus annulipes-bornianensis	1								1										
Pantherone serrata													2						
Periclimenes americanus																			
Pinnixa sp. A	9					4			1						1				
Pinnixa sp.							2												
Pinnotheridae sp.	2		2										1						
Porcellanidae sp.																			
Portunus sp.					2			1											
Processa hamphilli								1											
Processa sp.								2											
Processidae sp.													1						
Sicyonia laevigata								2					2			1			
Sicyonia sp.													1						
Sicyonia ? sp.													1						
Synalpheus townsendi							1												
Trachypenaeus sp.													1				1		1
Xanthidae sp. A																1		1	
SIPUNCULIDA																			
unidentified species	28		424		48	23	153		33		85	134	55		506		224	139	
ECHIURIDA																			
unidentified species	2			1				1	1										
PHORONIDA																			
unidentified species															1				
ECHINODERMATA																			
Echinoidea																			
Clypeasteroida sp.			2	13	3	1				3					1		9		
Echinoidea sp. (endocyclic)							1				1				1		12		
Echinoidea sp.							1										1		3
Diocopa michelini			1																
Mellita quinquesperforata											11			1	1			12	
Mellitidae sp.			1	1						6					1		1		
Holothuroidea																			
Leptosynapta sp.	2					1		1											
Holothuridea sp.			1																
Ophiuroidea																			
Amphiodia pulchella	1		3		2		79					8	38		1			3	
Amphiruridea sp.	9		3			2	6		3		3								3
Ophioplepis elegans					1												1		
Ophioplepis sp.																	1		
Ophiophragmus septus									1										
Ophiophragmus wardmani															1			1	
Ophiophragmus sp.								1											

TABLE H-128
(continued)
NUMBER OF MACROINVERTEBRATES COLLECTED BY BENTHIC GRABS
BY STATION AND QUARTER
ST. LUCIE PLANT
1976

Species	Quarter and station																	
	1st Quarter					2nd Quarter					3rd Quarter							
	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
ECHINODERMATA																		
Ophiuroidea (continued)																		
Ophiotrichidae sp.																		
Ophiuroidea sp.	10	1	22		53	3			2		3	2	7		65		27	24
CEPHALOCHORDATA																		
Branchiostoma caribaeum	6		16		10		32		3	4	2	10	10	10	30	26	3	59

TABLE H-129

EXPLANATION OF INDICES USED IN ANALYSIS
OF THE BENTHIC MACROINVERTEBRATE COMMUNITY

I. DIVERSITY AND EQUITABILITY

Diversity indices are an additional tool for measuring the quality of the environment and the effect of induced stress on the structure of a community of macroinvertebrates. Their use is based on the generally observed phenomenon that in undisturbed environments there will be relatively few species with large numbers of individuals and large numbers of species represented by only a few individuals. Many forms of stress tend to reduce diversity by making the environment unsuitable for some species or by giving other species a competitive advantage.

The Shannon-Weaver index of diversity (\bar{d}) (Lloyd, Zar, and Karr, 1968) calculates mean diversity and is recommended by the EPA (1973):

$$\bar{d} = \frac{C}{N} (N \log_{10} N - \sum n_i \log_{10} n_i)$$

where: $C = 3.321928$ (converts base 10 log to base 2)

N = total number of individuals

n_i = total number of individuals of the i^{th} species.

Mean diversity as calculated above is affected both by the number of species and the distribution of individuals among the species. The value may range from 0 to $3.321928 \log N$.

TABLE H-129
(continued)
EXPLANATION OF INDICES USED IN ANALYSIS
OF THE BENTHIC MACROINVERTEBRATE COMMUNITY

To evaluate the component of diversity due to the distribution of individuals among the species (equitability), the calculated \bar{d} is compared with a hypothetical maximum \bar{d} based on a maximum species distribution obtained from MacArthur's (1957) "broken stick" model. The MacArthur model results in distribution quite frequently observed in nature: one with a few abundant species and increasing numbers of species represented by only a few individuals. Sample data are not expected to conform to the MacArthur model, since it is only being used as a measure against which the distribution of abundances is compared. Equitability values may range from zero to one, except in rare cases where the distribution in the sample is more equitable than in the MacArthur model.

Equitability is computed by:

$$e = \frac{s'}{s}$$

where: s = number of taxa in the sample

s' = hypothetical maximum number of taxa in the sample based on a table devised by Lloyd and Ghelardi (1964)

When Wilhm (1970) evaluated diversity indices calculated from data collected by numerous authors, he found that in unpolluted water \bar{d} was generally between 3 and 4, whereas in polluted waters

TABLE H-129
(continued)
EXPLANATION OF INDICES USED IN ANALYSIS
OF THE BENTHIC MACROINVERTEBRATE COMMUNITY

\bar{d} was generally less than one. Equitability levels below 0.5 have not been encountered in southeastern waters known to be unaffected by oxygen-demanding wastes; in such waters, e generally ranged from 0.6 to 0.8. Even slight levels of degradation have been found to reduce equitability below 0.5 and generally to a range of 0.0 to 0.3.

II. McCLOSKEY'S (1970) INDEX OF FAUNAL DOMINANCE

This index ranks each species taken in a series of samples to determine the most dominant species. Use of this index disregards sample size. The species in each sample are ranked for dominance by their "biological index value" (BIV), which is obtained by giving 20 points to the species which numerically dominates that sample, 19 for each second dominant species, and so on. The "scores" of each species in the series of samples are then added to determine the total biological index value. The species having the highest total BIV is then the species of primary dominance.

III. CZEKANOWSKI'S (1913) INDEX OF FAUNAL SIMILARITY AS MODIFIED BY BRAY AND CURTIS (1957)

This index is used with quantitative data such as grab samples. It compares two samples on the basis of the similarity of their

TABLE H-129
(continued)
EXPLANATION OF INDICES USED IN ANALYSIS
OF THE BENTHIC MACROINVERTEBRATE COMMUNITY

species content.

$$\text{Similarity (S)} = \frac{100 \cdot 2w}{a + b}$$

where: w = number of species common to samples A and B.

a = number of species in sample A

b = number of species in sample B

Samples A and B are more similar as S approaches 100 and more dissimilar as S approaches 0. The results of these calculations were then placed in a dendrogram in which similarity increased from left to right (see Figure C-8).

IV. KENDALL'S COEFFICIENT OF RANK CORRELATION

Kendalls' tau is a non-parametric test for association between two variables:

$$\tau = \frac{N}{n(n-1)}$$

where: $N = 4 \sum C_i - n(n-1)$

n = number of ranks

C_i = total score for rank comparison
(biological index value)

As used in conjunction with the St. Lucie data, this formula correlated the dominance rankings of two benthic communities.

TABLE H-129
(continued)
EXPLANATION OF INDICES USED IN ANALYSIS
OF THE BENTHIC MACROINVERTEBRATE COMMUNITY

V. MORISITA'S (1959) INDEX OF COMMUNITY SIMILARITY

This index is used with such semi-quantitative data as trawl samples. It compares two samples by taking into account the abundances of common species, total abundances in each sample and their respective diversities.

Morisita's index is based on Simpson's index of diversity (λ), which is calculated as follows:

$$\lambda = \frac{\sum n_i(n_i-1)}{N(N-1)}$$

where: N = total number of individuals

n_i = importance value (abundance, biomass, etc.)
of the i th species

Using subscripts 1 and 2, the λ values of two samples may be differentiated:

$$\lambda_1 = \frac{\sum n_{i1}(n_{i1}-1)}{N_1(N_1-1)} \quad \text{and} \quad \lambda_2 = \frac{\sum n_{i2}(n_{i2}-1)}{N_2(N_2-1)}$$

TABLE H-129
(continued)
EXPLANATION OF INDICES USED IN ANALYSIS
OF THE BENTHIC MACROINVERTEBRATE COMMUNITY

Morisita's index of similarity between communities may then be calculated by the following formula:

$$C\lambda = \frac{2\sum n_{i1}n_{i2}}{(\lambda_1 + \lambda_2)N_1N_2}$$

This index is almost uninfluenced by the sizes of N_1 and N_2 . The value of $C\lambda$ will be close to one when the two samples belong to the same community and will be zero when no common species is found between them. $C\lambda$ values may then be placed in a dendrogram similar to that used for Czekanowski's index.

TABLE H-130

NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION O
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
MOLLUSCA										
Gastropoda										
<i>Anachis floridana</i>									2	2
<i>A. iontha</i>		1			1		1	2	1	6
<i>Aplysia wilcoxi</i>						4				4
<i>Aplysia</i> sp.					1	2				3
<i>Calyptraea centralis</i>		1								1
<i>Crepidula fornicata</i>	1	25	1	15	35	1	122	230	34	464
<i>C. plana</i>		7		6	1		3	3		20
<i>Diodora cayenensis</i>							1		1	2
<i>Fasciolaria hunteria</i>	1	1								2
<i>Litipoa malanostoma</i>									1	1
<i>Mitrella argus</i>	1									1
<i>M. lunata</i>					1		3			4
<i>Nassarius consensus</i>	1									1
<i>Odostomia seminuda</i>									2	2
<i>Pleurobranchia hedgepethi</i>				2						2
<i>Polinices lacteus</i>	1									1
<i>Seila adamsi</i>							2			2
<i>Sigatica carolinensis</i>									1	1
<i>Tricolia affinis pterocladica</i>									2	2
<i>Turbo castanea</i>	8	6	1		3	1		4	9	32

TABLE H-130
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 0
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
MOLLUSCA (continued)										
Amphineura										
<i>Chaetopleura apiculata</i>		2	1		4	1	4	8	6	26
<i>Ischnochiton papillosus</i>								1		1
Bivalvia										
<i>Anadara braziliiana</i>									2	2
<i>A. ovalis</i>									1	1
<i>A. transversa</i>						1			1	2
<i>Anomia simplex</i>	4		3	1	31	9	27	8	4	87
<i>Argopecten gibbus</i>					3					3
<i>Chama congregata</i>						3	4			7
<i>Chione grus</i>					2	6	4	3		15
<i>Musculus lateralis</i>						2				2
<i>Ostrea equestris</i>		1	1		1		1		2	6
<i>Trachycardium egmontianum</i>									1	1
<i>T. muricatum</i>	1									1
Cephalopoda										
<i>Lolliguncula brevis</i>							1			1
<i>Octopus joubini</i>	1									1

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TABLE H-130
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION O
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ARTHROPODA										
Stomatopoda										
<i>Gonodactylus bredini</i>								2		2
<i>Squilla neglecta</i>			1							1
Penaeidea										
<i>Acetes americanus</i>									26	26
<i>Lucifer faxoni</i>									2	2
<i>Metapenaeopsis goodei</i>		1	8	1		3	2			15
<i>Metapenaeopsis</i> sp.				3		1				4
<i>Penaeus brasiliensis</i>					1					1
<i>P. duorarum duorarum</i>	5				1	1	3	1		11
<i>Penaeus</i> sp.				6						6
<i>Sicyonia brevirostris</i>							1	2		3
<i>S. dorsalis</i>	1	2	13	2		1				19
<i>S. laevigata</i>								3		3
<i>Trachypenaeus constrictus</i>	28	138	100	155	41	2	34		22	520
Caridea										
<i>Latreutes fucorum</i>									1	1
<i>Leander paulensis?</i>									1	1
<i>L. tenuicornis</i>									2	2
<i>Leptochela serratorbita</i>		1	1					3	5	10
<i>Periclimenes americanus</i>					2					2
<i>P. longicaudatus</i>							1		20	21
<i>Processa hemphilli</i>	7	9	2	8	3	1	3		2	35
<i>Processidae</i> sp.	1									1

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TABLE H-130
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION O
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ARTHROPODA (continued)										
Anomura										
<i>Dardanus fucosus</i>		1								1
<i>Paguristes hummi</i>	3	1				1				5
<i>Paguroidea</i> sp.			1						1	2
<i>Pagurus annulipes-bonnatarensis</i>						4			5	9
<i>Petrochirus diogenes</i>	1	2	1	1						5
<i>Porcellana sayana</i>	1									1
Brachyura										
<i>Arenaeus cribrarius</i>	1			3			2			6
<i>Calappa flammea</i>							3	1		4
<i>C. ocellata</i>								1		1
<i>Callinectes ornatus</i>						1		2		3
<i>C. sapidus</i>									1	1
<i>C. similis</i>						1				1
<i>Callinectes</i> sp.			1						1	2
<i>Dissodactylus</i> sp.									1	1
<i>Ebalia cariosa</i>	1								1	2
<i>Hepatus epheliticus</i>	5	3	1	1		4		2	6	22
<i>Heterocrypta granulata</i>	3									3
<i>Hypoconcha arcuata</i>		1								1
<i>Hypoconcha</i> sp.					1					1
<i>Menippe mercenaria</i>							1			1

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TABLE H-130
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 0
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ARTHROPODA										
Brachyura (continued)										
<i>Ovalipes ocellatus floridanus</i>	1									1
<i>Panopeus occidentalis</i>					2		1		2	5
<i>Persephona mediterranea</i>	2								1	3
<i>Pitho</i> sp.							1			1
<i>Podochela riisei</i>						1	1			2
Portunidae sp.									1	1
<i>Portunus gibbesii</i>			1	6	2	6	2		3	20
<i>P. spinimanus</i>	2	1	2	2	11	2	9	13	5	47
<i>Portunus</i> sp.				1						1
ECHINODERMATA										
Echinoidea										
<i>Arbacia punctulata</i>	1							6		7
<i>Encope michelini</i>		1								1
<i>Lytechinus variegatus</i>	1				2		1	5	1	10
<i>Mellita quinquesperforata</i>	38	2	40		1			6	18	105
Asteroidea										
<i>Astropecten duplicatus</i>	3									3
Ophiuroidea										
<i>Amphiodia pulchella</i>		1								1
<i>Ophiolepis elegans</i>		1		1		2		1	1	6
<i>Ophiophragmus wurdemanni</i>	1									1

TABLE H-131

NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 1
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
MOLLUSCA										
Gastropoda										
<i>Anachis avara</i>							1			1
<i>A. obesa</i>						4				4
<i>Corambe</i> sp.							1			1
<i>Crepidula fornicata</i>	4	1								5
<i>Fasciolaria hunteria</i>							1			1
<i>Mitrella argus</i>							1			1
<i>Pleurobranchia hedgepethi</i>			1							1
<i>Tricolia affinis pterocladica</i>							1			1
<i>Turbo castanea</i>	1					1	1			3
Bivalvia										
<i>Anadara transversa</i>	2									2
<i>Anomia simplex</i>				1		2				3
Cephalopoda										
<i>Loliguncula brevis</i>							1			1
<i>Loligo pealei</i>	1									1
ARTHROPODA										
Stomatopoda										
<i>Squilla neglecta</i>		2		1	3					6

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TABLE H-131
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 1
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ARTHROPODA (continued)										
Penaeidea										
<i>Acetes americanus</i>		2					3			5
<i>Metapenaeopsis goodei</i>			1							1
<i>Penaeus</i> sp.	1	1			1	2				5
<i>Sicyonia dorsalis</i>	2	2	6	6	5		1			22
<i>Trachypenaeus constrictus</i>	18	162	42	28	105	1	40	2	5	403
<i>Trachypeneopsis mobilispinis</i>					1					1
Caridea										
<i>Alpheus</i> sp.						1				1
<i>Latreutes parvulus</i>							1			1
<i>Leander tenuicornis</i>						1				1
<i>Leptochela serratorbita</i>	2	8	1			2	1			14
<i>Periclimenes americanus</i>						1	1			2
<i>P. longicaudatus</i>		1				10	1			12
<i>Processa bermudensis</i>		1								1
<i>P. hemphilli</i>	1	4	2		1					8
<i>Processa</i> sp.				1						1
Anomura										
<i>Paguristes humi</i>							1			1
<i>Pagurus annulipes-bonnaiensis</i>					1	3				4
<i>P. carolinensis</i>							4			4

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TABLE H-131
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 1
ST. LUCIE PLANT
1976

Species	Mar.	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ARTHROPODA (continued)										
Brachyura										
<i>Arenaeus cribrarius</i>							1			1
<i>Calappa flammea</i>							1			1
<i>Callinectes ornatus</i>		1			1	1				3
<i>C. sapidus</i>	1									1
<i>C. similis</i>								1		1
<i>Cronius tumidulus</i>							1			1
<i>Hepatus epheliticus</i>		3			1					4
<i>Heterocrypta granulata</i>	1									1
<i>Panopeus occidentalis</i>						1				1
<i>Pitho</i> sp.							2			2
<i>Podochela riisei</i>		1								1
<i>Portunus gibbesii</i>							1			1
<i>P. spinimanus</i>		2								2
<i>Portunus</i> sp.			2							2
<i>Xanthidae</i> sp.						1	2			3
ECHINODERMATA										
Echinoidea										
<i>Arbacia punctulata</i>									1	1
<i>Encope michelini</i>		1								1
<i>Mellita quinquiesperforata</i>	1		1		1		1		10	14

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TABLE H-131
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 1
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ECHINODERMATA (continued)										
Asteriidea										
<i>Astropecten duplicatus</i>		2								2
Ophiuroidea										
<i>Ophiolepis elegans</i>	2								1	3

TABLE H-132

NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 2
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
MOLLUSCA										
Gastropoda										
<i>Anachis iontha</i>							6		1	7
<i>A. lafresnayi</i>								1		1
<i>Calyptraea centralis</i>						4				4
<i>Crepidula fornicata</i>		97		147	68	139	393	187	35	1066
<i>C. plana</i>		3		5	3		2	4		17
<i>Diodora cayenensis</i>						2	1	1		4
<i>Turbo castanea</i>				7	2	19	4	10	2	44
Amphineura										
<i>Chaetopleura apiculata</i>				1	3	14	3	19		40
<i>Ischnochiton papillosus</i>						1	2			3
<i>Stenoplax boogii</i>							1			1
Bivalvia										
<i>Anomia simplex</i>				7	51	59	21	21	12	171
<i>Arca zebra</i>								1		1
<i>Argopecten gibbus</i>		1			9			1		11
<i>Chama congregata</i>					2	9	4	5	1	21
<i>Chione grus</i>		1			1	6	3	2		13
<i>C. intapurplea</i>								1		1
<i>Lithophaga bisulcata</i>							4			4
<i>Musculus lateralis</i>							1			1
<i>Ostrea equestris</i>				3	1		1		1	6
<i>Plicatula gibbosa</i>									1	1

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TABLE H-132
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 2
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
MOLLUSCA (continued)										
Cephalopoda										
<i>Loligo pealei</i>	2					6				8
<i>L. plei</i>					8					8
ARTHROPODA										
Stomatopoda										
<i>Gonodactylus bredini</i>						2	2	3		7
<i>Gonodactylus</i> sp.					1					1
Penaeidea										
<i>Metapenaeopsis goodei</i>			2		3	7				12
<i>Metapenaeopsis</i> sp.					2	1				3
<i>Sicyonia brevirostris</i>			1	4	3	1		1	1	11
<i>S. dorsalis</i>				3						3
<i>S. typica</i>						1				1
<i>Trachypenaeus constrictus</i>	2	12	25	24	19	1			6	89
Caridea										
<i>Leptochela serratorbita</i>	1		1						1	3
<i>Nikoides</i> sp.					1					1
<i>Periclimenes longicaudatus</i>			4		3					7
<i>Processa bermudensis</i>	1							1		2
<i>P. hemphilli</i>	5	3	1							9
<i>P. cf. P. vicina</i>				1						1
<i>Synalpheus townsendi</i>				1						1
<i>Synalpheus</i> sp.								5		5
<i>Tozeuma serratum</i>					1					1

TABLE H-132
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 2
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ARTHROPODA (continued)										
Anomura										
<i>Dardanus fucosus</i>		1						1		2
<i>Megalobrachium</i> sp. A								1		1
<i>Pagurus</i> sp.									1	1
Brachyura										
<i>Calappa</i> sp.					1			1		2
<i>Hepatus epheliticus</i>			1							1
<i>Hypoconcha arcuata</i>						2				2
<i>Panopeus occidentalis</i>				3						3
<i>Parthenope serrata</i>					1					1
<i>Pelia mutica</i>							1			1
<i>Pilumnus</i> sp.								1		1
<i>Podocheila riisei</i>						2				2
<i>P. sidneyi</i>					2	1				3
<i>Portunus gibbesii</i>		1		3	2		1			7
<i>P. ordwayi</i>								1		1
<i>P. spinimanus</i>		3	3	18	13	7	16	30	1	91
<i>Portunus</i> sp.	1			1						2

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TABLE H-132
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 2
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ECHINODERMATA										
Echinoidea										
<i>Arbacia punctulata</i>				1			5	22		28
<i>Encope michelini</i>		1	1	1			2			5
<i>Lytechinus variegatus</i>							1	9		10
<i>Mellita quinquiesperforata</i>							1		10	11
Holothuroidea										
<i>Holothuroidea</i> sp.				1						1
Asteroidea										
<i>Astropecten duplicatus</i>		1			1		1			3
<i>Luidia clathrata</i>	1									1
Ophiuroidea										
<i>Ophiolepis elegans</i>				1	1	4				6
<i>Ophiothrix angulata</i>				1	1					2

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TABLE H-133

NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 13
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
MOLLUSCA										
Gastropoda										
<i>Aplysia</i> sp.						2				2
<i>Crepidula fornicata</i>	1				13					14
Amphineura										
<i>Chaetopleura apiculata</i>					2					2
Bivalvia										
<i>Glycymeris spectralis</i>									1	1
ARTHROPODA										
Penaeidea										
<i>Metapenaeopsis goodei</i>						19				19
<i>Metapenaeopsis</i> sp.						11				11
<i>Sicyonia brevirostris</i>			1			1				2
<i>S. dorsalis</i>						1				1
<i>S. typica</i>					1	1				2
<i>Trachypenaeus constrictus</i>	1	1	9	5	12	24	7		11	70
<i>Trachypeneopsis mobilispinis</i>		1	18	4	2	6	1			32

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TABLE H-133
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 3
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ARTHROPODA (continued)										
Caridea										
<i>Leptochela serratorbita</i>		2							7	9
<i>Nikoides</i> sp.			1							1
<i>Periclimenes longicaudatus</i>									1	1
<i>Processa burmudensis</i>			1							1
<i>Tozeuma serratum</i>			1							1
Brachyura										
<i>Arenaeus cribrarius</i>	1						3			4
<i>Ovalipes ocellatus floridanus</i>						1				1
<i>Podocheila riisei</i>						1				1
<i>P. sidneyi</i>	1				1					2
<i>Portunus anceps</i>					2	14	5	1		22
<i>P. gibbesii</i>						17				17
<i>P. spinimanus</i>			1	1	1	1				4
ECHINODERMATA										
Echinoidea										
<i>Encope michelini</i>	1		1	1					1	4
<i>Mellita quinquiesperforata</i>						1				1

TABLE H-134

NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 4
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
MOLLUSCA										
Gastropoda										
<i>Anachis iontha</i>					1	2	1		1	5
<i>Crepidula fornicata</i>			49		4	15	2	1		71
<i>C. plana</i>			2							2
<i>Diodora cayenensis</i>									1	1
<i>Fasciolaria tulipa</i>								1		1
<i>F. hunteria</i>								1		1
<i>Mitrella argus</i>		1								1
<i>Seila adamsi</i>	1									1
<i>Turbo castanea</i>			4	1	9	6	1	6	2	29
Amphineura										
<i>Chaetopleura apiculata</i>	2		3	1	13	18	2	3	2	44
<i>Ischnochiton papillosus</i>						6	2			8
Bivalvia										
<i>Aequipecten muscosus</i>					1					1
<i>Anomia simplex</i>			10		10	50	6			76
<i>Argopecten gibbus</i>			5		4	1				10
<i>Chama congregata</i>			1		9	9		1		20
<i>Chione grus</i>			2		1	6				9
<i>Noetia ponderosa</i>			1		1					2
<i>Ostrea equestris</i>						1				1
<i>Pleuromeris tridentata</i>						1				1

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TABLE H-134
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 4
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
MOLLUSCA (continued)										
Cephalopoda										
<i>Loligo pealei</i>					9			6		15
ARTHROPODA										
Stomatopoda										
<i>Gonodactylus bredini</i>						3				3
<i>Gonodactylus</i> sp.					2					2
Penaeidea										
<i>Acetes americanus</i>									2	2
<i>Metapenaeopsis goodei</i>			2		1	2				5
<i>Metapenaeopsis</i> sp.						1				1
<i>Penaeus duorarum duorarum</i>	1					2				3
<i>Sicyonia brevirostris</i>			3		2		1			6
<i>S. typica</i>			1		1			1		3
<i>Trachypenaeus constrictus</i>		9	22	16	23	3	3		5	81
<i>Trachypeneopsis mobilispinis</i>				1						1
Caridea										
<i>Alpheus</i> sp.			1		1					2
<i>Leptochela serratorbita</i>		1								1
<i>Periclimenes americanus</i>					2					2
<i>P. longicaudatus</i>		1			1			3	3	8
<i>Processa hemphilli</i>		4	1	1	3		1			10
<i>Tozeuma serratum</i>				1	2					3

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TABLE H-134
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 4
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ARTHROPODA (continued)										
Anomura										
<i>Dardanus fucosus</i>			2							2
<i>Megalobrachium</i> sp. A									2	2
Brachyura										
<i>Calappa flammea</i>					1					1
<i>Calappa</i> sp.			1							1
<i>Ebalia cariosa</i>						1				1
<i>Euryplax nitida</i>								1		1
<i>Hypoconcha arcuata</i>						1				1
<i>Paropeus occidentalis</i>					1		2		2	5
<i>Pelia mutica</i>					1				1	1
<i>Pilumnus</i> sp.					1					1
<i>Podocheila sidneyi</i>					1					1
<i>Portunus anceps</i>				1						1
<i>P. gibbesii</i>			1		6				1	8
<i>P. spinimanus</i>			13	12	6	5	8	4		48
<i>Portunus</i> sp.	1				1					2
Xanthidae sp.					1				1	2

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TABLE H-134
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 4
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ECHINODERMATA										
Echinoidea										
<i>Arbacia punctulata</i>			1						1	2
<i>Encope michelini</i>		5	2							7
<i>Encope</i> sp.		2								2
<i>Mellita quinquiesperforata</i>	1684	103	23	204	143	678	46	103		2984
Holothuroidea										
Holothuroidea sp.			1							1
Asteroidea										
<i>Astropecten duplicatus</i>	1	1								2
Ophiuroidea										
<i>Ophiolepis elegans</i>					1	2				3
<i>Ophiothrix angulata</i>			1						1	2

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TABLE H-135
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 5
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
MOLLUSCA										
Gastropoda										
<i>Anachis iontha</i>	2	1	3						1	7
<i>A. lafresnayi</i>		2							1	3
<i>Aplysia</i> sp.			1							1
<i>Caecum cooperi</i>				1						1
<i>Calyptraea centralis</i>	1	1	1			5				8
<i>Crepidula fornicata</i>	25	4	103	51	70	83	6	45	30	417
<i>C. plana</i>	7		5			2		1		15
<i>Diodora cayenensis</i>		1							5	6
<i>Fasciolaria hunteria</i>	1									1
<i>Mitrella lunata</i>			2							2
<i>Nassarius consensus</i>						2				2
<i>Pleurobranchia hedgepethi</i>				1						1
<i>Opisthobranchia</i> sp.									1	1
<i>Seila adamsi</i>		1							1	2
<i>Tricolia affinis pterocladica</i>			1							1
<i>Turbo castanea</i>	6	12	21	1	12	30	1	3	42	128
Amphineura										
<i>Chaetopleura apiculata</i>	2	1	7	2	11	40		1	32	96
<i>Ischnochiton hartmeyeri</i>				8						8
<i>I. papillosus</i>		2	1	2		1			1	7

TABLE H-135
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 5
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
MOLLUSCA (continued)										
Bivalvia										
<i>Anadara transversa</i>						2			1	3
<i>Anomia simplex</i>			16	5	21	68		9	5	124
<i>Arca zebra</i>		1								1
<i>Argopecten gibbus</i>					2					2
<i>Chama congregata</i>		5	4	2	4	18		3	6	42
<i>Chione grus</i>			4		9	22			9	44
<i>C. intapurplea</i>				1						1
<i>Crassinella lunulata</i>						1				1
<i>Diplothyra smithii</i>		2				3			2	7
<i>Lithophaga bisulcata</i>						3				3
<i>Modiolus modiolus squamosus</i>					1					1
<i>Noetia ponderosa</i>					2	1				3
<i>Ostrea equestris</i>	1	5			2	2		1	1	12
<i>Plicatula gibbosa</i>									1	1
<i>Pseudochama radians</i>			2							2
<i>Pteromeris perplana</i>				1						1
Cephalopoda										
<i>Lolliguncula brevis</i>			1			1				2
<i>Octopus joubini</i>		1	1							2
<i>Loligo pealei</i>								3		3
<i>L. plei</i>					2					2

TABLE H-135)
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ARTHROPODA										
Stomatopoda										
<i>Gonodactylus bredini</i>		1				2			1	4
Penaeidea										
<i>Metapenaeopsis goodei</i>			2		3	13				18
<i>Metapenaeopsis</i> sp.		1			1	2				4
<i>Penaeus brasiliensis</i>					2					2
<i>P. duorarum duorarum</i>		5			17	5		1	1	29
<i>Sicyonia brevirostris</i>			8		1	1		1		11
<i>S. dorsalis</i>		1								1
<i>S. laevigata</i>			1							1
<i>Solenocera atlantidis</i>						1				1
<i>Trachypenaeus constrictus</i>	2	55	19	17	2	5	2	19	18	139
Caridea										
<i>Alpheus</i> sp.		1				3			1	5
<i>Gnathophyllum modestum</i>		1								1
<i>Leptochela carinata</i>						1				1
<i>L. serratorbita</i>		2	1			2			3	8
<i>Nikoides schmitti</i>					2					2
<i>Periclimenes americanus</i>		4			1	6				11
<i>P. longicaudatus</i>				4			1	8	5	18
<i>Processa bermudensis</i>								1		1
<i>P. hemphilli</i>		9	3	2	1		2			17
<i>Tozeuma serratum</i>									1	1

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TABLE H-135
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 5
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ARTHROPODA (continued)										
Macrura										
<i>Scyllarus americanus</i>			1		1	1				3
Anomura										
<i>Dardanus fucosus</i>		1	2						2	5
<i>Munida</i> sp.						1				1
<i>Pagurus annulipes-bonnaiensis</i>									1	1
<i>Petrochirus diogenes</i>						1				1
<i>Porcellana sayana</i>						3				3
Brachyura										
<i>Arenaeus cribrarius</i>								2		2
<i>Calappa flammea</i>		4						1		5
<i>Ebalia cariosa</i>									2	2
<i>Hepatus epheliticus</i>			2	1	1	1		1		6
<i>Hypoconcha arcuata</i>						1				1
<i>H. sabulosa</i>									2	2
<i>Panopeus occidentalis</i>									3	3
<i>Podocheila riisei</i>						1				1
<i>P. sidneyi</i>								1		1
<i>Portunus depressifrons</i>							1			1
<i>P. gibbesi</i>		2	7	1	1		2			13
<i>P. ordwayi</i>		1	2							3
<i>P. spinimanus</i>		4	11	1	14	3	7	35	5	80
<i>Stenorynchus seticornis</i>						1				1

TABLE H-135
(continued)
NUMBER OF BENTHIC MACROINVERTEBRATES CAPTURED BY OTTER TRAWL AT STATION 5
ST. LUCIE PLANT
1976

Species	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Total
ECHINODERMATA										
Echinoidea										
<i>Arbacia punctulata</i>		11	5		9	1		3	34	63
<i>Encope michelini</i>	1	14								15
<i>Encope</i> sp.				2						2
<i>Lytechinus variegatus</i>					1	11		6	17	35
<i>Mellita quinquiesperforata</i>									3	3
Holothuroidea										
Holothuroidea, sp.				1						1
Asteroidea										
<i>Astropecten duplicatus</i>			1				1			2
Ophiuroidea										
<i>Ophiolepis elegans</i>			2	1	2	6			6	17
<i>Ophiothrix angulata</i>		4			1	1			8	14

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TABLE H-136

DESCRIPTIONS OF UNIDENTIFIED CATEGORIES OF PHYTOPLANKTON

BACILLARIOPHYTA

Centric diatom sp. 4: Cells large, cylindrical, and weakly siliceous. Intercalary bands not observed. Chromatophores numerous. Length along pervalvar axis 77-150 μ , diameter 30-70 μ .

Centric diatom sp. 5: Cells cylindrical and weakly siliceous. Intercalary bands not visible. Blunt process near margin of one valve. Chromatophores numerous. Length along pervalvar axis 65 μ , diameter 50 μ .

Centric diatoms <20 μ : All unidentifiable centric diatoms less than 20.0 μ in diameter.

Centric diatoms >20 μ : All unidentifiable centric diatoms more than 20.0 μ in diameter.

Pennate diatom sp. 1: Cells with valve ends knoblike. Length along apical axis 14-21 μ , width 4-5 μ . Colonial.

Pennate diatom sp. 3: Valves constricted in center. Two chromatophores visible. Length along apical axis 18-20 μ , width 5 μ .

Pennate diatom sp. 4: Cells fusiform in shape, weakly siliceous. Length along apical axis 25 μ , width of expanded central area 2 μ . No striae visible.

Pennate diatoms <20 μ : All unidentifiable pennate diatoms which have a length of less than 20.0 μ along the apical axis.

Pennate diatoms >20 μ : All unidentifiable pennate diatoms which have a length of more than 20.0 μ along the apical axis.

Pennate diatoms >200 μ : All unidentifiable pennate diatoms with a length greater than 200.0 μ along the apical axis.

Sigmoid diatom sp. 1: Cells large with low length-to-width ratio. Striae not visible. Chromatophores parietal. Length along apical axis 60-200 μ , width 15-30 μ .

Sigmoid diatoms >200 μ : All unidentifiable sigmoid, pennate diatoms with a length along the apical axis of greater than 200.0 μ .

TABLE H-136
(continued)
DESCRIPTIONS OF UNIDENTIFIED CATEGORIES OF PHYTOPLANKTON

PYRRHOPHYTA

Unidentified dinoflagellates: All unidentifiable pyrrhophytes, regardless of size.

CHLOROPHYTA

Chlorophyte sp. 1: Cells spherical, small, and lacking flagella. Pyrenoid visible in cell body. Diameter, 2-6 μ .

Chlorophyte spp.: All unidentifiable unicellular chlorophytes.

Colonial chlorophytes: All unidentifiable nonfilamentous colonial chlorophytes.

Filamentous chlorophytes: All unidentifiable filamentous chlorophytes.

CYANOPHYTA

Cyanophyte sp. 1: Cells elliptical, length 4-5 μ , width 2-3 μ . Colonial.

HAPTOPHYCEAE

Haptophyte sp. 1: Cells small and spherical, diameter 4-9 μ . Coccoliths 1-1.5 μ in length. Two flagella, equal in length.

PRASINOPHYCEAE

Prasinophyte sp. 1: Cells ovoid to pyramidal with two to four chloroplasts. Pyrenoid basal, four flagella of equal length inserted in an anterior depression. Width 4-8 μ .

TABLE H-136
(continued)
DESCRIPTIONS OF UNIDENTIFIED CATEGORIES OF PHYTOPLANKTON

CHRYSTOPHYCEAE

Chrysophyte sp. 1: Cells six-lobed in end view. Diameter 7μ .
No flagella or spines observed.

Chrysophyte sp. 2: Cells ovoid with numerous flagella inserted near the middle of the body. Body covered with scales $1-2\mu$ in diameter. Length 12μ .

Chrysophyte sp. 3: Cells small, spherical, olive to yellow brown in color. Diameter 3μ . Colonies chainlike.

Silicoflagellate spp.: All unidentifiable chrysophytes belonging to the order Dictyochales (silicoflagellates).

UNIDENTIFIED PHYTOFLAGELLATES

Phytoflagellate sp. 3: Cells small, $7-8\mu$ in diameter with an anterior papilla. Four extremely long ($40-60\mu$) equal flagella.

Phytoflagellate sp. 4: Cells ovoid, 10μ in diameter. Two equal flagella inserted on either side of a small papilla. Parietal chloroplast with pyrenoid.

Phytoflagellate sp. 5: Cells spherical, $6-9\mu$ in diameter. Eight undulate flagella inserted at equal intervals around the cell body. One chloroplast.

Phytoflagellate sp. 6: Cells elliptical with a thick wall. Length $7-8\mu$. Two equal flagella inserted on the central of three short, spinelike projections on one side of the cell.

Unidentified phytoflagellates $>10\mu$: All unidentifiable phytoflagellates greater than 10.0μ in length.

Unidentified phytoflagellates $<10\mu$: All unidentifiable phytoflagellates less than 10.0μ in length.

TABLE H-136
(continued)
DESCRIPTIONS OF UNIDENTIFIED CATEGORIES OF PHYTOPLANKTON

OTHERS

Algal epiphyte 1: Cells small, ovoid and stalked. Length of cell body, 5 μ .

Unidentified 3: Cells irregularly spherical. One to three large chloroplasts. Diameter, 10-20 μ .

Unidentified coccoid 2: Cell body globose. Length 10-12 μ . One chloroplast.

Unidentified coccoid 3: Cells irregularly elliptical, 8-10 μ in length. Cell contents granular.

TABLE H-137

PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
26 MARCH 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYCEAE (diatoms)																
<i>Actinocyclus undulatus</i>															3545.6	
<i>A. sabintana</i>															3782.0	
<i>Amphora</i> sp. 2																7091.2
<i>Amphora</i> spp.		1418.3		11345.9		614.6	1418.3		2836.5	11345.9	7800.3	9927.7	2836.5	472.8	2127.4	21273.6
<i>Asterionella japonica</i>	51056.7	60984.3	21273.6	62402.5	28038.6	105091.5	148915.2	121968.6	70202.9	161679.3	173734.3	215572.4	164515.8	144424.1	87221.8	432563.0
<i>Bacteriasterion delioatulum</i>			1418.3	2836.5									2836.5			
<i>Biddulphia alternans</i>					680.8	2836.5	14182.4	4254.8	6382.1	16073.4	12055.1	2836.5	17018.9	19146.3	10636.8	
<i>B. aurita</i>		4254.8	1418.3	2127.4	1914.6	4727.5	39710.7	32619.5	19855.4	58620.6	48220.2	53893.1	51056.7	41365.4	51056.7	134732.8
<i>B. dubia</i>										2836.5				472.8		
<i>B. mobilensis</i>		1418.3				2505.6	1418.3	1418.3			3545.6	10636.8	8509.5		2127.4	
<i>B. rhombus</i>		2836.5			808.4	945.5										
<i>Corylostira cymbelliformis</i>					1276.4	4302.0	2836.5	7091.2		34983.3	21273.6	9927.7	31201.3	26237.5	12764.2	21273.6
<i>Ceratocaulina bergonii</i>					15.0	102.8				288.9			500.0	11.1	212.5	
<i>Chaetoceros affinis</i> v. <i>willie</i>	42547.2	26946.6	41128.9				11345.9	34037.8	23401.0	82257.9		8509.5	5673.0		55311.4	42547.2
<i>C. constrictus</i>		7091.2	8509.5													
<i>C. curvisetus</i>													11345.9			
<i>C. decipiens</i>	243937.2	161679.3	34037.8									3545.6				
<i>C. lauderi</i>		9927.7														
<i>C. messanensis</i>		12764.2														
<i>Chaetoceros</i> spp.	36874.2	34037.8	36874.3	31201.3			7091.2	9927.7	16309.8	48220.2	21273.6	2836.5	22691.9	14182.4	29783.1	
<i>Cocconeis</i> spp.					553.1		2836.5		4254.7		7800.3	2836.5	8509.5	3545.6	4254.7	
<i>Corethron hyetrix</i>	1418.3															
<i>Coscinodiscus lineatus</i>		1418.3	1418.3	8509.5			2836.5	5673.0	4254.7	17964.4	15600.7	5673.0	17018.9	4018.4	6382.1	42547.2
<i>C. marginatus</i>											45.9					
<i>C. radiatus</i>		8.4		158.4	13.8	35.0	8.4	25.0	16.7	44.5	20.9	120.8	16.7	8.4	37.5	333.4
<i>Coscinodiscus</i> spp.										3782.0				3545.6		
<i>Cyclotella</i> sp.		2836.5		2836.5	255.3	1229.2	7091.2		4963.9	6618.5	4254.7	13473.3	2836.5	945.5	4254.7	35456.0
<i>Cymbella</i> sp. 1										21746.4				18200.8		42547.2
<i>Cymbella</i> spp.		1418.3		2836.5	425.5	1891.0	4254.8	4254.8	2127.4	9454.9	2127.4		2836.5	18673.5	8509.5	7091.2
<i>Diploneis didyma</i> v. <i>didyma</i>			1418.3				1418.3									
<i>D. interrupta</i>					808.4	945.5	1418.3									
<i>D. smithii</i> v. <i>smithii</i>										6618.5		2836.5			2127.4	7091.2
<i>Diploneis</i> sp.							21273.6	17018.9	31201.3	2836.5	49638.4	36165.1	2836.5	472.8		
<i>Ditylum brightwellii</i>								1418.3		2836.5			45383.7	55547.8	40419.9	63820.8
<i>Eucampia oornuta</i>							141.7	33.4			16309.8	5673.0	8509.5	472.8		
<i>Fragilaria inflata</i>																21273.6
<i>Fragilaria</i> ? sp.					382.9											106368.0
<i>Fragilaria</i> spp.		7091.2														
<i>Gomphonema</i> sp.										3782.0		5673.0				14182.4
<i>Gommatophora marina</i>					1106.3	1843.7	2836.5	4254.7	4963.9				2836.5		2127.4	7091.2
<i>Guinardia flaccida</i>								58.4	37.5			37.5			45.9	
<i>Gyrodinium aureolum</i>		8.4		66.7			8.4		16.7	22.2	45.9	54.2		23.7	75.0	
<i>Hantzschia hawaii</i>									2127.4							
<i>H. membranacea</i>		4254.8														

TABLE H-137
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
26 MARCH 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYCEAE (continued)																
<i>Leptocylindrus danicus</i>	72330.2	51056.7	34037.8	57438.7		1229.2	68075.5	41129.0	206353.8	7564.0	68075.5	39001.6	53893.1	18200.8	14891.5	78003.2
<i>Melosira islandica</i>																
subsp. <i>helvetica</i>		5673.0	2836.5	5673.0	1659.3	10258.6	4254.8	1418.3			6382.1	2836.5				
<i>M. juergensii</i>	1418.3	1418.3				5909.4		2836.5		2836.5			8509.5	3545.6	4254.7	
<i>M. moniliformis</i>				2836.5	255.3					7564.0						
<i>M. curvuloides</i>															4254.7	
<i>M. sulcata</i>		1418.3	11345.9				5673.0	12764.2	2836.5	9454.9	14891.5	18437.1	17018.9	11109.6	21273.6	127641.5
<i>Melosira</i> sp. 1							1418.3		2127.4			3545.6	5673.0	7091.2		7091.2
<i>Melosira</i> spp.								2836.5					2836.5	3545.6		
<i>Melosira auxospore</i>								1418.3					2836.5			
<i>N. halophila</i> v. <i>halophila</i>					127.7	2836.5	1418.3			6382.1	17964.4	5672.9	17018.9	5673.0	3545.6	7091.2
<i>N. lyra</i> v. <i>lyra</i>											16.7		75.0	50.0	26.4	12.5
<i>N. warrickae</i>										33.4		20.9	16.7			25.0
<i>Navicula</i> sp. 6												3545.6	29073.9	11346.0	25764.7	8509.5
<i>Nitzschia acicularis</i> v. <i>closterioides</i>															4254.7	
<i>N. closterium</i>	14182.4	24110.1	22691.8	24110.1		4065.7	15600.7	8509.4	2127.4	32146.8	7800.3	2836.5	11345.9	71384.7	21273.6	78003.2
<i>N. constricta</i>							1418.3	1418.3	9218.6	12291.4	10636.8	5673.0	22691.8	10636.8	19146.3	42547.2
<i>N. delicatissima</i>	321940.3	243937.2	190044.1	216281.5			21273.6	39710.7	121968.6	62402.5	78712.3	57438.7	31201.3	33328.7	27655.7	163097.6
<i>N. fasciculata</i>							1418.3	1418.3			2127.4					7091.2
<i>N. longissima</i>			8509.6	21273.6	255.3	37.0	19855.4	25528.3	21982.7	60511.6	45383.7	42547.2	85094.4	64057.1	57438.7	177279.9
<i>N. paradoxa</i>				500.0				575.0	375.0	1005.6	1537.5	1454.2	1416.7	763.9	800.0	1916.7
<i>N. pungens</i> v. <i>atlantica</i>															8509.5	
<i>N. seriata</i>									100.0	350.0						
<i>N. sigmoides</i>										16.7			54.2		83.4	41.7
<i>Nitzschia</i> ? sp.	1418.3					1229.2									2.8	
<i>Pinnularia</i> ? sp.							8.4									
<i>Pinnularia</i> sp. 1							1418.3		2836.5	11345.9	2127.4	9927.7		14655.2		14182.4
<i>Pinnularia</i> sp. 2																7091.2
<i>Pleurosigma elongatum</i>									33.4	83.4		41.7	116.7	65.3		208.4
<i>Rhaphoneis sarirella</i>		7091.2		2127.4	1531.7	13426.0	7091.2	4254.8	21273.6	58620.6	7091.2	21273.6	28364.8	98094.9	2127.4	63820.8
<i>Rhaphoneis</i> sp. 1						614.6										
<i>Rhizosolenia alata</i>	8.4	133.4	16.7		10.8	5.6	108.3	33.3	745.9	44.5	45.9	16.7	83.3		87.5	
<i>R. setigera</i>	8.4	8.4	33.4		2.5				100.0	38.9	12.5		33.4	20.9	37.5	
<i>R. stouterfothii</i>	7091.2	8509.5		6382.1	2893.2	2789.2	14182.4	17018.9	36874.2	26473.8	48929.3	25528.3	25528.3	21273.6	40419.9	42547.2
<i>R. styliformis</i>	25.0	183.4	58.4	66.7	27.3		266.7	150.0	1008.4	144.5	75.0	66.7	216.7	104.2	212.5	
<i>Rhizosolenia</i> spp.	116.7															
<i>Soolioleura</i> sp.						614.6	1418.3			6618.5		2836.5	8509.5	4018.4		7091.2
<i>Skeletonema costatum</i>	2781167.4	2164233.3	1716069.6	2654944.1	15997.8	110339.0	448163.7	574387.0	1232450.0	2015790.9	1255141.8	2213162.5	2805277.5	1320144.5	1359382.4	2333003.8
<i>Stauroneis anceps</i> v. <i>amerloana</i>							4254.8	1418.3			3545.6	6382.1		10636.8		
<i>Striatella unipunctata</i>											25.0					
<i>Striatella robusta</i>				2845.9												
<i>Thalassionema nitazochloides</i>						3451.1	2836.5		8509.5	18909.9		14182.4	11345.9	14655.2		14182.4
<i>Thalassiosira</i> sp. 1	4254.7	12764.2						2836.5								
<i>Thalassiosira</i> ? sp.				4254.8			1418.3									
<i>Thalassiothrix longissima</i>																12.5
<i>T. mediterranea</i> v. <i>pacifica</i>	25.0	8.4														
<i>Thalassiothrix</i> sp.				16.7												
Unidentified centric diatom sp. 4		33.4		100.0	32.5		50.0		466.7				166.7		112.5	

TABLE H-137
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
26 MARCH 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYCEAE (continued)																
Unidentified centric diatoms <20μ	14182.4	21273.7	28365.0	81548.8	9785.9	58998.8	17019.0	32619.5	33328.8	60511.6	46801.9	43256.3	39710.9	31201.3	10636.8	28364.8
Unidentified centric diatoms >20μ	2836.5															
Unidentified pennate diatoms sp. 1							39710.7	58147.8	46092.8	199499.0	186498.5	140405.7	190044.1	105186.1	136151.0	482201.4
Unidentified pennate diatoms <20μ	29783.0	127641.6	134732.8	415544.1	66841.6	392568.7	268047.3	224082.5	331158.9	635371.0	565877.7	645298.9	504893.2	719756.5	316976.5	1609701.7
Unidentified pennate diatoms >20μ	14182.4	15600.7	21273.6	74457.6	2552.9	18389.8	26946.6	31201.3	35455.9	127641.5	83676.2	131896.3	65239.1	109913.6	78712.3	248191.9
Unidentified pennate diatoms >200μ																41.7
Unidentified sigmoid diatoms sp. 1	8.4	50.0	108.4	345.9	32.5	39.7	33.4	125.0	166.7	244.5	350.0	387.5	166.7	197.2	100.0	333.4
Unidentified sigmoid diatoms >200μ	8.4	8.4		29.2		7.2	25.0									
TOTAL BACILLARIOPHYTA	3,598,273.8	3,041,148.7	2,303,438.6	3,736,226.8	138,286.8	753,880.3	1,244,447.8	1,329,892.1	2,319,795.2	3,950,679.4	2,828,768.7	3,864,863.2	4,348,337.1	3,058,286.0	2,456,698.6	6,555,433.4
PYRRHOPHYTA (dinoflagellates)																
<i>Aphidinium</i> sp. 1								4254.7		3782.0					8509.5	
<i>Aphidinium</i> sp. 2									2127.4							
<i>Ceratium furca</i> v. <i>eugrommum</i>	16.7	25.0							12.5		12.5					
<i>C. tripos</i>	8.4															
<i>Ceratium</i> sp. 3			8.4													
<i>Ectocarpus</i> spp.																
<i>Ectocarpus</i> spp.																
<i>Gymnodinium aureolum</i>	9927.7	4254.8	1418.3		425.5	614.6	8509.5	4254.8	29073.9	12291.4	24110.1	21982.7	2836.5	4018.4	17018.9	7091.2
<i>G. splendens</i>							7091.2				2127.4		28364.8			
<i>Gymnodinium</i> sp. 2	8509.4	7091.2	1418.3	2127.4			1418.3	2836.5	8509.5			12764.2	5673.0		10636.8	
<i>Gymnodinium</i> sp. 3							8509.5								4254.7	
<i>Peridinium depressum</i>								50.0								
<i>P. hirobie</i>							1418.3									
<i>Peridinium</i> sp. 1		1418.3									2127.4	3545.6			2127.4	
TOTAL PYRRHOPHYTA	18,462.2	12,789.3	2,845.0	2,127.4	425.5	614.6	26,946.8	11,396.0	39,723.3	16,073.4	41,141.6	38,292.5	39,710.8	4,018.4	46,802.0	14,182.4
CHLOROPHYTA (green algae)																
<i>Chlamydomonas</i> sp.				133257.8		2458.3	2836.5	1418.3	4963.9							
<i>Oocystis</i> ? sp.									8509.5							
<i>Chlorophyte</i> sp. 1	25528.4	4254.8	41128.9	19855.4	425.5	13331.5	92185.6	59566.1	152460.7	205172.0	134732.7	172316.1	190044.1	224791.0	168061.4	567295.7
TOTAL CHLOROPHYTA	25,528.4	4,254.8	41,128.9	19,855.4	133,683.3	15,789.8	95,022.1	60,984.4	165,934.1	205,172.0	134,732.7	172,316.1	190,044.1	224,791.0	168,061.4	567,295.7
CYANOPHYTA (blue-green algae)																
<i>Oscillatoria</i> spp.											187.5					
<i>Spirulina</i> spp.																
TOTAL CYANOPHYTA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	187.5	0.0	0.0	62.5	0.0	0.0
EUGLENOPHYTA (euglenoids)																
<i>Euglena</i> sp. 1																
<i>Eutreptia</i> cf. <i>Lanotti</i>				2127.4										5673.0		
TOTAL EUGLENOPHYTA	0.0	0.0	0.0	2,127.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,673.0	0.0	0.0	0.0

TABLE H-137
(Continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
26 MARCH 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
CRYPTOPHYTA (cryptophytes)																
<i>Chroomonas amphioxys</i>							1418.3									
<i>C. minuta</i>									5673.0						6382.1	
TOTAL CRYPTOPHYTA	0.0	0.0	0.0	0.0	0.0	0.0	1,418.3	0.0	0.0	5,673.0	0.0	0.0	0.0	0.0	6,382.1	0.0
XANTHOPHYTA (xanthophytes)																
<i>Olithodiscus</i> sp.					3488.9	13851.5	2836.5					7091.2				
TOTAL XANTHOPHYTA	0.0	0.0	0.0	0.0	3,488.9	13,851.5	2,836.5	0.0	0.0	0.0	0.0	7,091.2	0.0	0.0	0.0	0.0
PRASINOPHYCEAE (prasinophytes)																
<i>Tetraselmis</i> sp. 1	9927.7	5673.0	4254.8			614.6	11346.0									
Prasinophyte sp. 1	15600.6	2836.5	5673.0		127.7	945.5	8509.4	2836.5	11346.0						2127.4	
TOTAL PRASINOPHYCEAE	25,528.3	8,509.5	9,927.8	0.0	127.7	1,560.1	19,855.4	2,836.5	11,346.0	0.0	0.0	0.0	0.0	0.0	2,127.4	0.0
UNIDENTIFIED PHYTOFLAGELLATES																
Phytoflagellate sp. 3	1418.3															
Phytoflagellate sp. 4		4254.7														
Phytoflagellate sp. 5											2127.4		8509.5	1418.3	2127.4	
Unidentified phytoflagellates >10 μ	1418.3	8509.6	5673.0	5673.0			4254.7	7091.2	6382.1					472.8	6382.1	14182.4
Unidentified phytoflagellates <10 μ	11345.9	4254.8	32619.5	15600.7	808.4	9738.6	24110.1	11345.9	29073.9	11345.9	28364.6	41838.0	34037.8	14655.2	40419.7	70912.0
TOTAL UNIDENTIFIED PHYTOFLAGELLATES	14,182.5	17,019.1	38,292.5	21,273.7	808.4	9,738.6	28,364.8	18,437.1	35,456.0	11,345.9	30,492.0	41,838.0	42,547.3	16,546.3	57,438.7	85,094.4
OTHERS																
Unidentified auxospores								1418.3								
Unidentified coccoid 2															12764.2	
TOTAL OTHERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,418.3	0.0	0.0	0.0	0.0	0.0	0.0	12,764.2	0.0
TOTAL PHYTOPLANKTON	3,681,974.4	3,083,719.6	2,395,632.5	3,781,610.8	276,819.3	795,434.9	1,418,891.4	1,424,963.6	2,572,254.6	4,188,943.9	3,035,321.6	4,124,401.1	4,626,312.3	3,303,704.2	2,750,274.2	7,222,005.9

^a Values are mean of two replicates.

^b S = Surface; B = Bottom.

TABLE H-138

PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
21 APRIL 1976

Species	Station and depth															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYTA (diatoms)																
<i>Actinopteryx undulatus</i>						8.4										
<i>Amphora commutata</i>					945.5											
<i>Amphora</i> sp.			1418.3	2745.0		8509.5	2127.4									
<i>Amphiprora</i> sp. 1		2836.5														
<i>Asterionella japonica</i>	293291.5	385761.2	479896.7	545153.0	528530.6	731102.4	510566.2	912164.3	192880.6	498511.2	54330.8	338722.9	283647.9	663144.9	113104.6	545313.1
<i>Bacteriastrea delioatulum</i>	4680.2		1418.3						1134.6				2363.8			
<i>Bellerophon malleus</i> v. ?					125.0					87.5						200.0
<i>Biddulphia alternans</i>					6618.5	2127.4		7800.3	4538.4	14891.5	283.7	4491.1	945.5	4216.8		2836.5
<i>B. curvata</i>			17993.9	8989.8	13236.9	17018.9	23401.0	96676.7	11345.9	48929.3	1483.5	22928.3	9455.0	47435.2	1820.1	7091.2
<i>B. dubia</i>														3545.6		
<i>B. longicurvata</i>						2836.5										
<i>B. mobilensis</i>								4254.7								
<i>B. rhombus</i>								4254.7								
<i>Campylodiscus</i>														3545.6		8509.5
<i>Cymbella</i> sp.																
<i>Cymbella</i> sp. 1	1560.1	2836.5		4117.5		9927.7	4254.7	12291.4	2269.2	17018.9	2213.8	2363.8	2836.5	7091.2		
<i>Cerataulina bergonii</i>	36.7		2659.2		208.4	350.0		62.5								
<i>Cerataulina</i> sp. 1									13.3	12.5			11.1		4.6	
<i>Chaetoceros affinis</i> v. <i>willii</i>	14040.6	2836.5		6382.1	30255.8	14182.4	40419.9	29783.1	6807.6		1581.3	15600.7	4254.7		5720.2	2836.5
<i>C. constrictus</i>	9360.4				8509.5		14891.5						2836.5		7280.3	
<i>C. curvatus</i>	1560.1					5673.0	4254.7	6382.1			6382.1					
<i>C. diadema</i> v. <i>protuberans</i>			3988.8		8509.5											
<i>C. gracilis</i>	1560.1															
<i>C. laciniosus</i>		8509.5		2745.0				33328.6	8509.4							
<i>C. messanensis</i>		17018.9														
<i>C. socialis</i>								15127.9								
<i>C. viaticus</i>																
<i>Chaetoceros</i> spp.	118564.9	124805.1	36519.7	40763.0	91712.8	94313.0	151042.5	147024.2	81690.6	42547.2	27892.3	76112.2	91712.8	53184.0	1560.1	214154.2
<i>Clinacosphenia montilgera</i>						2127.4										
<i>Cocconeis fluvialilis</i>																
<i>Cocconeis</i> spp.	1560.1					4254.7	4254.7					2127.4				
<i>Corethron hystris</i>	3120.1			1372.5					1134.6							
<i>Coscinodiscus lineatus</i>	1560.1			1372.5	3309.3	7091.2	2127.4	14418.8			316.3					
<i>C. radiatus</i>			9.2	20.9	5.6	12.5		25.0		4254.7	316.3	7091.2				
<i>Cyclotella comta</i>					5673.0			6145.7						41.7		
<i>Cyclotella</i> sp.		5673.0				7800.4	4254.7									3545.6
<i>Cymbella</i> sp. 1							2127.4	8509.5	1134.6							
<i>Cymbella</i> spp.		5673.0			1891.0	1418.3	3545.6	5909.3	1701.9	2127.4		2363.8		3545.6		
<i>Diploneis interrupta</i>					1418.3			2127.4								
<i>D. smithii</i> v. <i>smithii</i>								4254.7								
<i>Diploneis</i> sp.	3120.1	8509.5	2747.9	2127.4	25528.3	21273.6	19146.2	25764.7	3971.1	26946.6	1134.6	10636.8	3782.0	5654.0	1040.1	31201.3
<i>Ditylum brightwellii</i>	1560.1	2836.5			1418.3	1418.3	6382.1	5673.0		2127.4	283.7		2836.5	14182.4		2836.5
<i>Eucampia zoodiacus</i>					108.4			187.5				55.6				
<i>Fragilaria inflata</i>		2836.5				17018.9										
<i>Fragilaria</i> ? sp.					8509.5		27655.7	30964.9	14749.7	57438.7	632.5	24582.8	11818.7	42547.2		19146.3
<i>Gomphonema</i> spp.					2127.4		2127.4	2127.4								2836.5
<i>Gomphonema marina</i>					3309.3	5673.0			567.3	5673.0			945.5		1040.1	6382.1
<i>Gomphonema flaccida</i>									26.7							
<i>Gyrodinium aureolum</i>					12.5	12.5				62.5		26.4				16.7

TABLE H-138
(Continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
21 APRIL 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYTA (continued)																
<i>Henriculus hawaii</i>					945.5	4254.7					316.3				780.1	
<i>Leptocylindrus danicus</i>	2836.5	2836.5	1372.5		1418.3	13473.3	6382.1	18437.1	5673.0		2432.3	4254.7	2836.5		2600.1	3545.6
<i>Melosira juergensi</i>								2127.4								
<i>M. sulcata</i>	5673.0	1329.6			5200.2	14891.5	25528.3	16309.8	3403.8	9218.6	567.3	21273.6			4680.2	47511.1
<i>Melosira</i> sp. 1					945.5	3545.6	2127.4	4018.4				2363.8				
<i>Navicula cancellata</i>															780.1	2836.5
<i>N. halophila</i> v. <i>halophila</i> 1560.1	5673.0															
<i>N. lyra</i> v. <i>lyra</i>					945.5	16.7	12.5	3782.0	1134.6	4254.7	316.3					
<i>Navicula warrikan</i> ?						12.5		22.2		79.2			13.9	22.2	20.9	20.9
<i>Navicula</i> sp. 6	2836.5	1329.6	2127.4		6618.5	13473.3			3.4	12.5	4.8				10.7	20.9
<i>Nitzschia acicularis</i> v. <i>closterium</i>									13946.1	14891.5	283.7	8745.8	1418.3	31815.6		3545.6
<i>N. closterium</i>	15600.6	73748.5	27301.1	51742.9	11345.9	24110.1	19146.2	45383.7	1701.9	9218.6	283.7					
<i>N. constricta</i>	4680.2	8509.5	1329.6		3309.3	19855.4	2127.4	5909.3	9644.0	42547.2	7362.0	17491.6	7091.2	64207.7	5200.3	12055.1
<i>N. delicatissima</i>	230889.4	303503.3	137037.4	156738.4	220772.6	233300.4	206353.9	451945.6	2269.2	4254.7	283.7				3545.6	19855.4
<i>N. fasciculata</i>					1372.5	3782.0		1891.0	89632.8	121259.5	38100.6	78239.6	101640.5	149491.6	48102.0	228336.6
<i>N. longissima</i>					32390.8	41129.0	86512.6	36165.1	5673.0	283.7	2127.4			2108.4		2836.5
<i>N. paradoxa</i>	7800.4	48220.2	13827.9					75403.1	39710.7	3120.2	40892.6	15127.9		57400.8		58857.0
<i>N. paradoxa</i>	9.2	5216.7		462.5	711.1	1887.5	1037.5	1736.1	9644.1	70.0	850.0	2405.6	688.6	2395.9		4037.5
<i>N. seriata</i>											11.7					
<i>N. sigmoidea</i>										12.5						
<i>Pinnularia</i> ?										2127.4						
<i>Pinnularia</i> sp. 1					1418.3		2127.4	6382.1			283.7	13473.3	4254.8		780.1	3545.6
<i>Pinnularia</i> sp. 2					1418.3	6382.1					283.7				16.8	129.2
<i>Pleurosigma elongatum</i>		150.0	25.8	83.4	91.7	154.2	137.5	188.9	16.7	100.0	7.9	52.8	5.6	125.0	3380.2	75166.7
<i>Rhaphoneis surirella</i>	1560.1	5673.0	2659.2		2363.8	3545.6		30728.5	1701.9	38292.5	3249.6	21746.4	6618.5	29036.0		
<i>Rhizosolenia alata</i>					36.1	25.0	12.5		23.4		29.8		33.4		6.1	
<i>R. calcar avis</i>	9.2	150.0	17.5	29.2	38.9	70.9	212.5	73.6	86.7	100.0	13.4	93.1	100.0	270.8	26.0	41.7
<i>R. fragilissima</i>						4254.7		1891.0	2269.2	2127.4	851.0				1040.1	
<i>R. setigera</i>					5.6	8.4										
<i>R. styliformis</i>						8.4										
<i>R. stultifera</i>	3120.2			3499.9	1418.3	4254.7	2127.4				2018.2		945.5		2340.1	3545.6
<i>Skeletonema costatum</i>	569423.1	689264.3	177191.3	329397.5	454309.4	785704.6	529712.4	989222.0	363636.6	694228.2	246054.2	616697.8	663263.3	550925.6	162766.6	645298.9
<i>Stauroneis anceps</i> v. <i>americana</i>													945.5	2108.4		
<i>Surirella robusta</i>		16.7														
<i>Synedra</i> spp.	1560.1					6382.1	12764.2	18909.9	1134.6	2127.4			1418.3			
<i>Thalassionema</i>																
<i>nitzschoides</i>	24961.1	17018.9	2650.2	2745.0	9455.0	11346.0	27655.7	32619.5	10778.5	7800.3	9184.4	6382.1	4727.5	41781.2	12740.5	26946.6
<i>Thalassiosira</i> sp. 1				2745.0				17018.9				4727.5	7091.2			
<i>Thalassiosira</i> ? sp.					945.5							945.5				5673.0
<i>Tropidoneis</i> sp.		2836.5	1418.3				2127.4	2127.4		2127.4						3545.6
Unidentified centric diatom <20μ	10920.5	19855.4		18116.9	14655.2	35456.0	29783.1	57202.3	13047.8	24110.1	3664.7	11109.6	4727.5	39483.3	10400.5	12055.1
Unidentified centric diatom >20μ			15068.8											9870.8		
Unidentified pennate diatom sp. 1					14655.1	37583.4	21273.6	88167.2		34037.8	851.0	37819.7	37819.8			15600.7
Unidentified pennate diatom sp. 3					12291.4	2127.4	8509.5	5673.0								
Unidentified pennate diatom sp. 4	1560.1			1372.5	7091.2	2836.5	2127.4	1891.0		3545.6	283.7	4254.7				9218.6

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TABLE H-138
(Continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
21 APRIL 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYTA (continued)																
Unidentified pennate diatoms <20μ	82683.4	190044.1	82789.7	103966.1	139933.0	238973.3	178698.2	317685.6	41412.6	341086.6	14378.1	167115.9	97858.5	305600.4	42901.8	297121.1
Unidentified pennate diatoms >20μ	23401.0	22691.9	23489.6	25734.2	32146.8	74457.6	21273.6	72566.6	11913.2	89349.1	3403.8	40892.6		70146.0	5980.3	92894.7
Unidentified pennate diatoms >200μ		16.7								54.2		13.9			4.6	16.7
Unidentified sigmoid diatom sp. 1	9.2	250.0	44.2		180.6	162.5	250.0	233.4	30.0	308.4	11.3	170.9	41.7	145.8	56.6	233.3
Unidentified sigmoid diatoms >200μ								12.5								
TOTAL BACILLARIOPHYTA	1,436,892.3	1,974,317.4	1,038,425.6	1,349,685.4	1,729,276.1	2,592,560.6	1,965,228.3	3,658,539.8	903,972.7	2,222,643.0	431,724.4	1,622,949.1	1,378,486.6	2,219,250.8	553,948.8	2,421,397.8
PYRRHOPHYTA (dinoflagellates)																
<i>Amphidinium</i> sp. 1					1418.3									2108.4	1820.1	2836.5
<i>Amphidinium</i> sp. 2																
<i>Ceratium furca</i> v. <i>eugrarium</i>											4.8					
<i>C. fusus</i>								12.5								
<i>C. teres</i>		16.7	9.2		22.2	8.4		11.1	3.4				16.7		9.2	41.7
<i>C. tripos</i>												1.7				
<i>Eccaulaella marina</i>			1418.3											945.5		
<i>Gymnodinium aurantium</i>		11346.0	2659.2	2127.4	6145.7		4254.7	4018.4	567.3		567.3	2363.8			2860.2	3545.6
<i>G. simplex</i> ?	1560.1		1329.6													
<i>G. viride</i>		2836.5	4077.5	1372.5			4254.7	1891.0						945.5		
<i>Gymnodinium</i> sp. 2				1372.5		4963.9	6382.1	2127.4		3545.6						
<i>Gymnodinium</i> sp. 3						1418.3										
<i>Gymnodinium</i> sp. 4								1891.0			316.3					
<i>Gymnodinium</i> spp.	7800.3	17018.9	5407.1	4254.7	1418.3			13709.7	10211.4	12764.2	1232.5		3309.3		6240.3	
<i>Gyrodinium</i> sp. 1	4680.2			4727.5				1891.0	567.3		1232.5		1891.0		4680.2	
<i>Peridinium granii</i> f. <i>mite</i>				2127.4												
<i>P. nitrobia</i>			1418.3										945.5		1040.1	
<i>P. trochoideum</i>	3120.2	2836.5	1418.3		1891.0			1891.0	1701.9		283.7		1418.3		1560.1	
<i>Peridinium</i> sp. 1		2836.5														
<i>Peridinium</i> spp.											3478.9		945.5		780.1	
<i>Prorocentrum micans</i>																
<i>Prorocentrum</i> sp. 1			1418.3							2127.4						
Unidentified dinoflagellates	1560.1	2836.5	4077.5	4117.5	1891.0					3545.6	851.0	4491.1	5673.0	3545.6	9360.4	12764.2
TOTAL PYRRHOPHYTA	18,720.9	39,727.6	23,233.3	15,372.0	17,514.0	6,390.6	14,891.5	27,443.1	13,051.3	21,982.8	7,968.7	6,854.9	16,090.3	5,654.0	29,130.8	19,188.0
CHLOROPHYTA (green algae)																
<i>Chlamydomonas</i> sp.				1418.3	1418.3				1134.6	2127.4						
<i>Chlorophyte</i> sp. 1	173167.0	150333.4	107153.4	72261.6	122441.4	175152.6	176570.8	336122.8	43681.8	187916.7	32822.0	102113.2	56256.9	95541.6	52002.1	105658.8
TOTAL CHLOROPHYTA	173,167.0	150,333.4	107,153.4	72,261.6	123,859.7	176,570.9	176,570.8	336,122.8	44,816.4	190,044.3	32,822.1	102,113.2	56,256.9	95,541.6	52,002.1	105,658.8
CYANOPHYTA (blue-green algae)																
<i>Anabaena</i> spp.								44.5								
<i>Oscillatoria</i> spp.		50.0			313.9	62.5	62.5			183.4					88.6	116.7
TOTAL CYANOPHYTA	0.0	50.0	0.0	0.0	313.9	62.5	62.5	44.5	0.0	183.4	0.0	0.0	0.0	0.0	88.6	116.7
CRYPTOPHYTA (cryptophytes)																
<i>Chroomonas arphiae</i>			1329.6							7091.2	283.7					
<i>C. minuta</i>																
TOTAL CRYPTOPHYTA	0.0	0.0	1,329.6	0.0	0.0	0.0	0.0	0.0	0.0	7,091.2	283.7	0.0	0.0	0.0	0.0	0.0

TABLE H-138
(Continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
21 APRIL 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
XANTHOPHYTA (xanthophytes)																
<i>Olisthodiscus</i> sp.	1560.1					3782.0										
TOTAL XANTHOPHYTA	1,560.1	0.0	0.0	0.0	3,782.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHRYSOPHYCEAE (yellow-brown algae)																
Chrysophyte sp. 1											632.5		3782.0			
TOTAL CHRYSOPHYCEAE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	632.5	0.0	3,782.0	0.0	0.0	0.0
PRASINOPHYCEAE (prasinophytes)																
<i>Pyraminonas amyliifera</i>		2836.5				2836.5		6382.1								
<i>Tetraselmis</i> sp. 1	10920.5	2836.5	17905.3	2745.0	945.5	2127.4	4254.7						14182.4		8320.4	
Prasinophyte sp. 1	6240.3	2836.5	12321.0	2127.4	1418.3	2836.5	10636.8	2127.4			851.0	4491.1			6500.3	2836.5
TOTAL PRASINOPHYCEAE	17,160.8	8,509.5	30,226.3	4,872.4	2,363.8	7,800.4	14,891.5	8,509.5	0.0	0.0	851.0	4,491.1	14,182.4	0.0	14,820.7	2,836.5
UNIDENTIFIED PHYTOFLAGELLATES																
Phytoflagellate sp. 4											316.3					
Phytoflagellate sp. 5	1560.1		2747.9						1134.6	2127.4	851.0					
Unidentified phytoflagellates >10 μ					2363.8		4254.7	10400.5		10636.8	3478.9			80119.3		
Unidentified phytoflagellates <10 μ	92043.8	141824.0	93426.6	107603.2	24110.1	45383.7	51056.7	106840.7	21557.3	148915.1	5956.0	49638.4	56729.6	31815.6	37441.6	98567.6
TOTAL UNIDENTIFIED PHYTOFLAGELLATES	93,603.9	141,824.0	96,174.5	107,603.2	26,473.9	45,383.7	55,311.4	117,241.2	22,691.9	161,679.3	10,602.2	49,638.4	56,729.6	111,934.9	37,441.6	98,567.6
OTHERS																
Unidentified auxospores								2127.4					2836.5	10636.8	4420.2	3545.6
Unidentified no. 3											5956.6	2363.8		3545.6		
Unidentified coccoid 2												2127.4				
TOTAL OTHERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,127.4	0.0	0.0	5,956.6	4,491.2	2,836.5	14,182.4	4,420.2	3,545.6
TOTAL PHYTOPLANKTON	1,741,104.0	2,314,760.4	1,296,541.6	1,549,793.6	1,903,581.2	2,828,768.7	2,226,956.1	4,150,028.3	984,531.5	2,603,623.8	490,840.7	1,790,538.0	1,528,364.5	2,446,563.7	691,852.8	2,651,311.0

^a Values are mean of two replicates.

^b S = Surface; B = Bottom.

TABLE H-139
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
12 MAY 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYTA (diatoms)																
<i>Arhiprora</i> sp. 1		3545.6											11.1			
<i>Arphora sabintaria</i>													945.5			
<i>Arphora</i> spp.	1654.6		1418.3	1985.6							1248.1				709.1	
<i>Asterionella japonica</i>	6382.1	8509.5	4254.7	3971.1	421.7	2332.3	5909.3		1654.6		3006.7		945.5		6258.6	
<i>Bacteriastrium delicatulum</i>						51.9				945.5						
<i>Bellerophon malleus</i> v. ?	59.7	83.4				567.3										
<i>Biddulphia alternans</i>		2836.5														
<i>B. acuta</i>	2363.8	27655.7	3545.6	3971.1	810.4										709.1	
<i>B. mobilensis</i>		3545.6														
<i>Campylodira cymbelliformis</i>		7091.2						1265.1								
<i>Cerataulina bergonii</i>		145.9			4.2				33.3				27.8	29.2		3.4
<i>Cerataulina</i> sp. 1							33.4		44.5	5.6			50.0			4.2
<i>Chaetoceros affinis</i> v. <i>willie</i>							3782.0									
<i>C. brevis</i>							2127.4		1265.1		283.7					
<i>C. constrictus</i>															709.1	
<i>C. curvius</i>	1891.0												1891.0		605.1	674.7
<i>C. gracilis</i>																
<i>C. laciniatus</i>								2811.2								
<i>C. messanensis</i>								1686.7					1891.0			
<i>C. vialiae</i>	709.1						2836.5			1891.0					2023.3	709.1
<i>Chaetoceros</i> spp.	14655.1		20564.5	18437.2	3241.7	7437.9	15364.3	8433.6	14655.2	7564.0	6694.1	23637.3	15869.1	13467.5	16394.4	8709.1
<i>Clinocodium frauenfeldianum</i>								22.2								
<i>Cocconeis fluviatilis</i> v. <i>fluviatilis</i>			1418.2													
<i>Cocconeis</i> spp.	945.5															
<i>Corethron hystrix</i>									945.5							
<i>Coscinodiscus lineatus</i>					4.2											
<i>C. radiatus</i>		91.7														
<i>Cymbella</i> sp. 1	1418.3		2127.4	1985.6			1891.0								709.1	709.1
<i>Cymbella</i> spp.	2836.5	7091.2		567.3	810.4	567.3			4254.8			1260.7	1891.0			
<i>Diploneis</i> sp.		20.9	1418.3			1134.6			709.1		907.7	945.5	945.5			709.1
<i>Fragilaria inflata</i>				1418.2												
<i>Fragilaria</i> ? sp.															3630.3	
<i>Gracilariophora marina</i>		3545.6														
<i>Guillardia flaccida</i>	532.0	79.2	266.6	173.4	870.3	799.3	516.7	1055.6	394.5	811.1	395.4	531.5	488.9	836.1	504.2	749.2
<i>Gyrodinium aureolum</i>		20.9														
<i>Gyrodinium</i> spp.		87.5		25.0												
<i>Hemiaulus hauckii</i>	1891.0					567.3		843.4					1124.5	1686.7		
<i>H. membranaceus</i>						1891.0		5060.2							709.1	
<i>H. sinensis</i>	1418.3			567.3							283.7	945.5				
<i>Leptocylindrus danicus</i>	30255.8	19855.4	40419.9	19571.7	26816.4	53325.8	44201.8	52991.2	31674.0	42547.2	3403.8	4727.5	1891.0	5673.0	2023.3	
<i>Melosira sulcata</i>		10636.8			2431.3						31201.3	33092.3	63198.4	64016.6	89181.0	47958.2
<i>Melosira</i> sp. 1	709.1										1872.1					1383.8
<i>Melosira</i> spp.						1265.1										
<i>Navicula cancellata</i>	945.5	2836.5			421.7			562.3	2836.5						605.1	
<i>N. halophila</i> v. <i>halophila</i>		3545.6				630.4										
<i>N. membranacea</i>																
<i>N. varriksae</i> ?	19.5		12.5	20.0		14.1	130.6	141.7	86.1	94.5	79.4	66.7	27.8	1265.1	62.5	25.0
<i>Navicula</i> sp. 4													66.7			40.9
<i>Navicula</i> sp. 6		2836.5	5673.0												709.1	
<i>Navicula</i> sp. 7								562.3								
<i>Nitzschia acicularis</i> v. <i>closterioides</i>								1686.7					562.3	421.7		
<i>N. closterium</i>	1418.3	15600.7	1418.3	7942.2	4151.0	1765.0		9136.4	945.5	945.5		630.4	3935.7	4638.5	9992.9	5500.8

TABLE H-139
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
12 MAY 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYTA (continued)																
<i>Nitzschia constricta</i>	945.5	3545.6		1134.6		630.4						630.4	945.5			
<i>N. delioatissima</i>	6618.5	6382.1	6382.1	9360.4	6615.2	6681.5	8509.5	2249.0	22928.2	3782.0	3347.1	15758.3	20929.3	6312.1	4045.6	5266.8
<i>N. fasciculata</i>				1134.6												
<i>N. longissima</i>	1891.0	3545.6	3545.6	4538.4		4223.2	1654.6		5909.3	945.5	1248.1	945.5	1891.0		709.1	1046.5
<i>N. paradoxa</i>	8.4	1558.3	75.0	160.0						16.7						25.0
<i>N. pungens</i> v. <i>atlantica</i>				3687.5		3466.9	5436.6	2108.4		2836.5	2269.2	6303.3		4944.9	709.1	
<i>N. seriata</i>					14.3											
<i>N. sigmoidea</i>	9.7	54.2														
<i>Nitzschia</i> sp. 2			8.3	11.7												
<i>Pinnularia</i> sp. 1															605.1	
<i>Pleurosigma elongatum</i>	54.2	120.8	8.3			6.7		12.5								6.7
<i>Rhaphoneis surirella</i>	945.5	17018.9	2127.4	1418.3												
<i>Rhizosolenia alata</i>	91.7	50.0	41.7	48.4	407.2	295.6	138.9	261.2	58.3	72.2	59.4	42.6	94.5	258.3	254.2	165.0
<i>R. alata</i> f. <i>indica</i>	480.6	375.0	329.1	188.3	915.5	958.6	1211.2	1176.4	1325.0	1222.2	1139.4	1398.2	1277.8	1420.9	1454.2	1444.2
<i>R. bergonii</i>								27.8						8.4		26.7
<i>R. calcar avis</i>	180.6	158.3	229.1	136.7	142.9	286.0	119.5	152.8	97.3	77.8	66.0	122.3	83.4	111.1	208.4	127.5
<i>R. cylindrus</i>								11.1								
<i>R. delioatula</i>						421.7									605.1	
<i>R. fragillissima</i>	4963.9	2836.5		567.3	7557.3	6555.4	1891.0	9417.5	11818.6	8509.5	10211.3	6618.5	20495.5	11691.8	5549.4	6953.5
<i>R. imbricata</i>	33.4		116.7	45.0	117.3	134.1	161.1	245.9	175.0	194.5	132.0	150.0	138.9	187.5	270.8	262.5
<i>R. imbricata</i> v. <i>shrubsolei</i>							97.2	37.5	202.8	250.0	188.0	157.4	216.7	55.6		100.0
<i>R. robusta</i>						6.7										
<i>R. setigera</i>			12.5	3.4				4.2		5.6				5.6		14.2
<i>R. stollersfothii</i>	4254.8	5673.0	4254.7	2836.5	9178.2	23889.5	5909.3	9277.0	6854.8	18909.9	12480.6	8824.6	35827.6	28928.1	13141.6	6347.7
<i>Skeletonema costatum</i>	6145.7	21273.6	29783.0	21840.9	8947.6	8005.2	4963.9	7028.0	9218.6	4727.5	3744.2	17964.4	13365.4	15243.2	26406.8	19579.9
<i>Stauroneis anceps</i> v. <i>americae</i>					421.7											
<i>Surirella robusta</i>		312.5	54.1	11.7												
<i>Synedra</i> spp.	945.5					567.3									605.1	337.4
<i>Thalassionema nitzschioides</i>												945.5			605.1	
<i>Tropidoneis</i> sp.		2836.5														
Unidentified centric diatom sp. 4	108.4						111.1	273.7	69.5	94.5	116.0	259.3	111.1	637.5	208.4	104.2
Unidentified centric diatom sp. 5												14.8				
Unidentified centric diatoms <20μ		47511.0	7800.3	4254.7	6226.4	3025.6		5060.2	945.5	1891.0	283.7	2521.3	562.3	3999.4	1919.2	1012.1
Unidentified centric diatoms >20μ	709.1	3545.6			1232.1	1260.7		562.3	7327.6			630.4	562.3	945.5	709.1	1755.6
Unidentified pennate diatom sp. 1		28364.8				3151.7										
Unidentified pennate diatoms <20μ	46092.8	250319.3	76584.9	44816.4	12775.7	15506.1	26237.4	7730.8	22455.4	22691.9	15770.8	16703.7	17018.9	11039.6	14247.6	13672.9
Unidentified pennate diatoms >20μ	12291.4	60984.3	6382.1	4538.5	2918.8	4790.5	2836.5	7309.2	7800.3	945.5	1191.4	2206.2	2836.5	2951.8	2628.3	4220.3
Unidentified pennate diatoms >200μ	145.9	37.5			8.4	20.8	5.6			11.1	3.4	3.7	16.7	11.1	16.7	6.7
Unidentified sigmoid diatom sp. 1	65.3	470.8	70.8	21.7		34.8	30.6	20.8	8.3	16.7	6.7		11.1	9.7	12.5	35.8
TOTAL BACILLARIOPHYTA	157,087.1	576,636.1	220,343.0	161,390.7	99,148.7	154,581.5	136,123.7	140,490.0	155,433.6	122,077.2	101,633.3	148,037.8	210,328.4	182,826.5	209,738.6	130,396.9

TABLE H-139
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
12 MAY 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
PYRRHOPHYTA (dinoflagellates)																
<i>Aphidinium</i> sp. 1							709.1					624.1			945.5	
<i>Aphidinium</i> sp. 2	1654.6		1418.3	3120.2				2108.4								
<i>Aphidinium</i> spp.																709.1
<i>Ceratium furca</i> v. <i>eugrarmen</i>		37.5			12.5			4.2				38.7	16.7	11.1	30.6	8.4
<i>C. fusus</i>				3.4					27.8							3.4
<i>C. teres</i>		20.9										3.4				
<i>C. trichoceros</i>													3.7		5.6	
<i>Euviasella compressa</i>										945.5	624.1			945.5		
<i>E. marina</i>	945.5			567.3		630.4										
<i>Euviasella</i> spp.					421.7								630.4			
<i>Gymnodinium aurantium</i>	709.1	15600.7	2127.4	6523.9		3529.9	3072.9	4638.5				1248.1	1260.7	2632.2	1686.7	1210.1
<i>G. simplex</i> ?	4963.9		9218.6	6523.9	12387.0	8194.6	1654.6	984.0	945.5	7564.0	624.1	2206.2	3475.6	1891.0	1418.3	674.7
<i>G. splendens</i>												630.4			421.7	
<i>G. viride</i>						567.3										
<i>Gymnodinium</i> sp. 2	945.5				12966.8	1134.6										
<i>Gymnodinium</i> sp. 1	36874.2	51765.8	27655.7	17302.6		25024.1	12527.8	3654.6	21982.7	4727.5	7318.2	10715.6	2835.5	12189.9		6382.1
<i>Gymnodinium</i> sp. 1	4963.9	16309.8		1701.9	1686.7	1197.7		6325.2	709.1		624.1	630.4	1507.8	3897.3	5152.6	1349.4
<i>Peridinium depressum</i>		16.7		16.7		6.7	8.4		13.9					5.6		
<i>P. hirobis</i>					421.7	567.3		1265.1						1686.7	1367.2	605.1
<i>P. trochoideum</i>					1686.7							630.4	1124.5			
<i>Peridinium</i> spp.	945.5		2836.5	567.3		3403.8							562.3	945.5		1046.5
<i>Prorocentrum micans</i>						630.4			945.5							
Unidentified dinoflagellates	11345.9	3545.6	34746.9	12764.2	46641.8	6492.4	13000.6	13493.8	17491.6	24582.8	6694.1	9770.1	10758.4	14719.4	11430.6	11580.0
TOTAL PYRRHOPHYTA	63,348.1	87,297.0	78,003.4	49,091.4	76,224.9	51,379.2	30,973.4	32,473.8	42,116.1	37,819.8	17,798.9	26,494.6	23,961.5	39,685.0	19,825.1	23,435.3
CHLOROPHYTA (green algae)																
<i>Chlamydomonas</i> sp.							709.1							945.5		
<i>Cladophora</i> sp.				166.7												
<i>Chlorophyte</i> sp. 1	64529.9	205644.7	143951.4	35456.0	41568.7	59377.0	210372.2	198470.5	99513.1	96440.3	86512.6	102428.4	119850.2	140499.3	276715.8	166828.5
TOTAL CHLOROPHYTA	64,529.9	205,644.7	143,951.4	35,622.7	41,568.7	59,377.0	211,081.3	198,470.5	99,513.1	96,440.3	86,512.6	102,428.4	120,795.7	140,499.3	276,715.8	166,828.5
CYANOPHYTA (blue-green algae)																
<i>Oscillatoria</i> sp.		83.4		41.7												
TOTAL CYANOPHYTA	0.0	83.4	0.0	41.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUGLENOPHYTA (euglenoids)																
<i>Eutreptia</i> cf. <i>Lanvill</i>			1418.3													
<i>Eutreptia</i> spp.								562.3								
<i>Trachelomonas</i> spp.					421.7	1197.7		421.7								
TOTAL EUGLENOPHYTA	0.0	0.0	1,418.3	0.0	421.7	1,197.7	0.0	984.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CRYPTOPHYTA (cryptophytes)																
<i>Chroomonas amphioxela</i>			1418.3	1418.3		4727.5	945.5		2600.1	6618.5						
<i>C. minuta</i>						5909.3					3403.8			945.5		709.1
TOTAL CRYPTOPHYTA	0.0	0.0	1,418.3	1,418.3	0.0	4,727.5	6,854.8	0.0	2,600.1	6,618.5	3,403.8	0.0	0.0	945.5	0.0	709.1
CHRYSOPHYCEAE (yellow-brown algae)																
<i>Chrysophyte</i> sp. 1					421.7			1546.2						843.4		709.1
<i>Chrysophyte</i> sp. 2					421.7	0.0	0.0	1,546.2	0.0	0.0	0.0	0.0	0.0	421.7		
TOTAL CHRYSOPHYCEAE	0.0	0.0	0.0	0.0	421.7	0.0	0.0	1,546.2	0.0	0.0	0.0	0.0	0.0	1,265.1	0.0	709.1

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TABLE H-139
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
12 MAY 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
HAPTOPHYCEAE (haptophytes including coccolithophores)																
Haptophyte sp. 1	65239.0	81548.8	31910.3	45667.4	61025.3	111316.1	72330.2	109215.3	57438.7	83203.4	51226.8	66184.5	90592.4	90912.0	60848.2	59882.5
TOTAL HAPTOPHYCEAE	65,239.0	81,548.8	31,910.3	45,667.4	61,025.3	111,316.1	72,330.2	109,215.3	57,438.7	83,203.4	51,226.8	66,184.5	90,592.4	90,912.0	60,848.2	59,882.5
PRASINOPHYCEAE (prasinophytes)																
<i>Pyraminonax amyliifera</i>																709.1
<i>Tetraselmis</i> sp. 1	19619.0	7091.2		1985.6												
Prasinophyte sp. 1	709.1	15600.7	17728.0	11346.0	48684.4	20800.9	7327.6	69296.2	1418.3	2836.5	1872.1	2836.5	1891.0	6005.7	10389.8	5197.9
Unidentified prasinophytes	21510.0	13473.3	47511.0	20989.9	19357.9	9391.9	52002.1	26987.6	20091.7	12291.4	11459.1	8509.4	3961.0	26500.1	5861.7	28667.7
TOTAL PRASINOPHYCEAE	41,838.1	36,165.2	65,239.0	34,321.5	68,042.3	30,192.8	59,329.7	96,283.8	21,510.0	15,127.9	13,331.2	11,345.9	5,852.0	32,505.8	16,251.5	34,574.7
UNIDENTIFIED PHYTOFLAGELLATES																
Phytoflagellate sp. 4	709.1	2836.5	1418.3	2836.5			2600.1	421.7	4491.1	945.5	1815.4	1891.0		1891.0	709.1	1418.3
Phytoflagellate sp. 5					1620.9	567.3			709.1	945.5					1418.3	
Phytoflagellate sp. 6						1197.7	709.1						2249.0	6746.9		20612.4
Unidentified phytoflagellates >10μ	3782.0	6382.1	7091.2	9076.7	4572.6	12607.7	6854.8	2811.2	6854.8	6618.5	5786.5	8324.6	4906.5	6094.7	3942.5	4523.2
Unidentified phytoflagellates <10μ	139460.2	324776.8	516948.3	301801.4	102923.7	81942.7	394506.9	76324.2	323122.2	313903.7	176429.0	265683.5	133314.5	272255.5	155968.7	219358.6
TOTAL UNIDENTIFIED PHYTOFLAGELLATES	143,951.3	333,995.4	525,457.8	313,714.6	109,117.2	84,968.4	404,670.9	79,557.1	335,177.2	322,413.2	184,030.9	276,399.1	140,470.0	286,988.1	162,038.6	245,912.5
OTHERS																
Unidentified no. 3	1418.3	2836.5	1418.3	1418.2		630.4		9698.7							709.1	
Unidentified coccoid 2	4963.9	8509.5	2127.4	6523.9			1654.6	10401.5	709.1	945.5			945.5	3156.1	6967.7	1721.2
Unidentified coccoid 3			1418.3	6807.6			3309.3	2600.1			567.3	1575.9				
TOTAL OTHERS	6,382.2	11,346.0	4,964.0	14,749.7	0.0	630.4	4,963.9	20,100.2	3,309.2	945.5	567.3	1,575.9	945.5	3,156.1	7,676.8	1,721.2
TOTAL PHYTOPLANKTON	542,375.7	1,332,715.3	1,072,706.3	656,018.0	455,970.6	498,370.3	926,327.9	679,121.4	717,098.4	684,644.9	458,505.1	631,836.0	592,945.7	778,782.8	753,094.7	664,169.8

^a Values are mean of two replicates.

^b S = Surface; B = Bottom.

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Species	Station and depth ^b																	
	11		12		0		1		2		3		4		5			
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B		
BACILLARIOPHYTA (diatoms)																		
<i>Actinocyclus</i> sp.		1405.6																
<i>Amphora</i> spp.		1405.6	2741.0			13480.0		5392.0		2631.4				657.9	202.3	2964.9		
<i>Asterionella japonica</i>	2631.4	7028.0	6578.4	16445.9	4604.9		2631.4	5392.0		6578.4		1642.6	13156.7			3795.1		
<i>Bacteriasterium delicatulum</i>							5262.7			21050.7	1314.1		8551.9	606.8	11807.1			
<i>Biddulphia alternans</i>		2811.2	5482.0	19735.1		53920.0	15788.1				657.9	1642.6		2427.1		2530.1		
<i>B. curvata</i>	42101.5	57629.7	54271.5	101964.6	34865.3	121320.0	58536.1	70096.0	24170.9	34207.5	7233.8	8212.7	3289.2	7685.9	11526.0	48624.2		
<i>B. longioraris</i>					11841.1							3285.1		1415.8				
<i>B. mobiliensis</i>										2631.4	1973.5							
<i>Corythosira</i>																		
<i>cymbelliformis</i>	13156.7				5920.5	40440.0				6578.4		3285.1			3842.9	31743.9		
<i>Cerataulina bergonii</i>				62.5	75.0	791.7												
<i>Chaetoceros affinis</i> v. <i>willie</i>					5920.5					5262.7								
<i>C. brevis</i>															3033.9			
<i>C. curvicaetus</i>					17103.8													
<i>C. didymus</i>															404.5			
<i>C. didymus</i> v. <i>protuberans</i>															606.8			
<i>C. gracilis</i>															2427.2	1124.5		
<i>C. laciniosus</i>			6578.4													5929.7		
<i>C. laevis</i>															6746.9	8894.6		
<i>C. lorenzianus</i>															3236.2	29174.5		
<i>C. messanensis</i>					5920.5							8212.7	1973.5					
<i>C. pendulus</i>					1973.5													
<i>C. vietusula</i>	10525.4								5751.5	1315.7								
<i>C. wighamii</i>						94360.0	28944.8	32352.0			1314.9				3092.3	10159.7		
<i>Chaetoceros</i> spp.	152618.0	137749.0	138693.8	194061.6	281553.8	148280.0	182422.8	447535.9	185643.8	93675.4	47332.2	68986.6	3947.0	606.8	21641.9	115821.6		
<i>Climacophora monilifera</i>		13.9						5392.0								107921.4		
<i>Cocconeis fluvialis</i> v. <i>fluvialis</i>			2741.0					2631.4	5392.0									
<i>Corethron hystrix</i>	2631.4	1405.6		3289.2	1973.5			8023.4	5392.0									
<i>Coscinodiscus lineatus</i>			12060.3	6578.4		26960.0		10784.0	10784.0	2631.3	1314.9	4927.6						
<i>C. marginatus</i>															202.3			
<i>C. oculus iridis</i>			20.9			13480.0												
<i>C. radiatus</i>				41.7			33.4			16.7		33.3						
<i>Coscinodiscus</i> spp.																		
<i>Cyclotella comta</i>					1973.5								657.9		404.5			
<i>Cyclotella</i> spp.					11841.1				5392.0		2631.4	657.0			404.5	7309.1		
<i>Cymbella</i> sp. 1	5262.7		2741.0	3289.2		13480.0												
<i>Cymbella</i> spp.	31576.2	4216.8	5482.0	3289.2		13480.0			1315.7	3947.0		1642.6						
<i>Diploneis didyma</i> v. <i>didyma</i>															202.3			
<i>D. interrupta</i>			2741.0	3289.2		13480.0						657.9	1642.6			1265.1		
<i>D. smithii</i> v. <i>smithii</i>															202.3			
<i>Diploneis</i> sp.	13156.8	12650.4	12060.3	3289.2	1973.5	80880.0	10525.4	10784.0	7067.1	3947.0	1314.9	3285.1						
<i>Ditylum brightwellii</i>				3289.2														
<i>Fragilaria inflata</i>							2631.4				2631.4	657.0						
<i>Fragilaria</i> ? sp.			10964.0	23024.3	38154.5	53920.0	5262.7		7894.1	3947.0					1213.6			
<i>Gomphonema</i> spp.												1642.6	657.9					
<i>Gracilatorphora marina</i>		2811.2	2741.0															
<i>Gyrodinium</i> spp.	16.7	41.7	20.9								3.4	33.4						
<i>Heintziella sinensis</i>											657.0		657.9		843.4			
<i>Lauderia borealis</i>						41.7												
<i>Leptocylindrus danicus</i>	5262.7	2811.2			7894.1	18419.4		5262.7		1971.1	13140.3	657.9	1011.3			1265.1		
<i>Litorophora abbreviata</i>													202.3					
<i>Melosira moniliformis</i>							5262.7											

TABLE H-140
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
8 JUNE 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYTA (continued)																
<i>Melosira sulcata</i>		7028.0		16445.9	1973.5		7894.1	10784.0	6578.4	2631.4	6575.9	11497.8		4045.2	3373.5	1265.1
<i>Naviacula cancellata</i>		1405.6														
<i>N. halophila</i> v. <i>halophila</i>	2631.4	1405.6	2741.0							1315.7		1642.6				
<i>N. lyra</i> v. <i>lyra</i>				41.7	16.7		16.7			16.7						
<i>N. membranacea</i>																
<i>N. varriks</i> ?	133.4	27.8	104.2	62.5	125.0	41.7	66.7	100.0	25.6	91.7	113.4	716.7	229.2	16.7	83.4	98.6
<i>Naviacula</i> sp. 6	2631.4	5622.4	5482.0	6578.4	1973.5	26960.0	5262.7	16176.0		6578.4	657.0	4927.7	657.9	2224.9	441.7	10555.1
<i>Nitzschia acicularis</i> v. <i>olosteroioides</i>	5262.7	4216.8	2741.0	3289.2	1973.5	26960.0	5392.0						657.9			
<i>N. olosteroioides</i>	92097.1	85741.7	151850.5	98675.4	82229.5	94360.0	130746.2	134800.0	26952.9	78940.3	7889.1	31208.3	15788.1	30541.3	43292.6	254189.6
<i>N. constricta</i>	2631.4	4216.8	12060.3	6578.4	3947.0		5392.0	10784.0	1315.7	5262.7		1642.6				
<i>N. delicatissima</i>	92097.0	88552.9	124988.9	78940.3	132882.9	67400.0	93648.8	194111.9	68622.6	72362.0	13808.8	18068.0	46048.5	21035.1	53694.0	211851.3
<i>N. fasciculata</i>		1405.6			1973.5					1315.7		1642.6		404.5		3795.1
<i>N. longissima</i>	26313.4	22489.6	10964.0	16445.9	27629.1	26960.0	58924.1	37744.0	6822.8	39470.2	8545.3	16425.4	7893.7	4449.8	843.4	5929.7
<i>N. parvula</i>	800.0	236.1	833.4	625.0	579.2	1458.4	2100.0	450.0		1175.0	33.4		33.4	666.7		72.2
<i>N. pungens</i> v. <i>atlantica</i>	23682.1	16887.2		13156.8	23682.1	26960.0	45638.1	16176.0	2875.8	36838.9	1314.9	6570.2	1315.7			
<i>N. stigmoides</i>	50.0	55.6				41.7	50.0			8.4			4.2	20.9		23.6
<i>N. spathulata</i>			6578.4			13480.0	10525.4	5392.0		1315.7	657.9	1642.6				
<i>Nitzschia</i> sp. 2	66.7	27.8			41.7	41.7	100.0	33.3	16.7	75.0	93.4	200.0	20.9	175.0	147.2	186.1
<i>Pinnularia</i> sp. 1		1405.6					2631.4			1315.7						
<i>Pinnularia</i> sp. 2	2631.4						2631.4									
<i>Pleurosigma elongatum</i>	16.7		83.4	20.9		125.0		100.0	26.2	41.7	6.7	66.7		33.3	25.0	36.1
<i>Rhaphoneis surirella</i>	5262.7	8433.6	32891.8	32891.8	15130.2	53920.0	18548.7	5392.0	2875.8	17103.7	1314.1	3285.1	15130.3	2224.9		20319.3
<i>Rhaphoneis</i> sp. 1															3935.7	
<i>Rhizosolenia alata</i>		27.8			16.7			33.4	25.6	33.4	66.7	16.7	62.5	54.2	47.2	22.2
<i>R. alata</i> f. <i>indica</i>	66.7	152.8	20.9	104.2	254.2	83.4	233.3	450.0	69.5	225.0	268.4	183.3	41.7	162.5	72.2	187.5
<i>R. bergonii</i>		55.6					133.3	100.0			165.0	66.7		16.7		18.1
<i>R. calcar avis</i>	50.0	27.8	20.9	41.7	145.9	166.4	133.4	100.0	52.2	116.7	65.0	83.4	54.2	45.9	66.7	154.2
<i>R. fragilissima</i>					1973.5					1315.7	657.0		1315.7	606.8		
<i>R. imbricata</i>	50.0		208.4	62.5		291.7				100.0			20.9	120.9	27.8	155.6
<i>R. imbricata</i> v. <i>shrubslei</i>	150.0	375.0	437.5	166.7	300.0	166.7	383.4	483.3	87.8	366.7	308.4	266.7	112.5	229.2	80.6	320.9
<i>R. setigera</i>						13480.0		33.4	6822.8		50.0		8.4	133.3	5060.2	23679.6
<i>R. stouterfothii</i>	2631.4	2811.2	9319.4	3289.2			10784.0	5392.0				3285.1		1011.3	14056.0	9290.1
<i>Skeletonema oostatum</i>	481535.9	399190.8	704432.6	976886.3	917023.2	485279.9	1018964.5	1676911.5	418105.9	363125.5	32863.1	72271.7	225637.7	73420.4	334814.3	670577.0
<i>Stauroneis anceps</i> v. <i>americana</i>		1405.6						5392.0								
<i>Stauroneis robusta</i>				20.9												
<i>Synedra</i> spp.														202.3	4216.8	2964.9
<i>Thalassionema</i>																
<i>Thalassionema</i> sp. 1	18419.4	30923.2	29602.6	16445.9	63810.1	13480.0	66171.6	37744.0	8627.2	21050.8	6571.0	3285.1	14472.4	4652.0	21365.2	91041.1
<i>Thalassiosira</i> sp. 1	55258.2	56224.0	131019.0	322339.6	129593.7	53920.0	117072.3	156368.0	71009.5	22366.5	5257.8	8212.7	13156.7	10517.5	32610.0	52380.1
<i>Thalassiosira frauenfeldii</i>							150.0	33.4				33.4		466.7		
<i>T. longissima</i>	16.7			20.9				16.7								
<i>T. mediterranea</i> v. <i>pacifica</i>													8.4			
Unidentified centric diatom sp. 4					12.5		116.7		35.6	8.4	657.0			45.9		
Unidentified centric diatom <20μ	42101.5	28112.0	192965.2	69072.8	52626.9	148280.0	66947.4	86272.0	44207.3		11829.6		9209.7	6674.6	23333.0	46133.5
Unidentified centric diatom >20μ	2631.4	8433.6	2741.0						1315.7	27629.1		24638.1	1315.7			
Unidentified pennate diatom sp. 1	15788.1	14056.0	10964.0	29602.7		80880.0		59312.0	2631.4				1973.5			
Unidentified pennate diatom sp. 3																5495.0

TABLE H-140
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
8 JUNE 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYTA (continued)																
Unidentified pennate diatom sp. 4	10525.4	1405.6														
Unidentified pennate diatoms <20μ	242083.6	205217.8	364002.5	365098.9	140776.9	673999.8	358419.0	339695.9	109220.9	98675.4	27610.3	98552.3	46706.4	26698.4	28674.3	
Unidentified pennate diatoms >20μ	63152.3	52007.3	87163.3	108543.0	30260.5	175239.9	80362.8	80880.0	10769.8	31576.2	9204.8	42706.0	7894.0	3640.7	10401.5	196670.8
Unidentified pennate diatoms >200μ	16.7	13.9	62.5		16.7				8.9			16.7	4.2	20.8	8.4	18.1
Unidentified sigmoid diatom sp. 1	116.7	166.7	166.7	145.9	25.0	250.0	116.7	133.4	35.0	125.0	30.0	383.4	4.2		150.0	127.8
Unidentified sigmoid diatoms >200μ	33.4	13.9				166.7	100.0				15.0	50.0	8.4	150.0		5.6
TOTAL BACILLARIOPHYTA	1,469,874.3	1,281,739.2	2,150,362.9	2,547,242.7	2,064,582.3	2,672,707.4	2,461,424.4	3,479,906.1	1,026,243.4	1,032,572.4	213,544.8	481,956.1	534,118.3	246,906.3	739,091.6	1,861,832.2
PYRRHOPHYTA (dinoflagellates)																
<i>Aphidinium</i> sp. 1													1642.6			
<i>Aphidinium</i> sp. 2												1971.1				
<i>Ceratium furca</i> v. <i>supracran</i>	16.7	13.9	41.7						8.9	8.4	6.7	16.7	8.4			
<i>Ceratium furca</i>	16.7		41.7		12.5							16.7				
<i>C. teres</i>												16.7				
<i>C. trioceros</i>														4.2		
<i>C. tripos</i>											6.7				11.1	
<i>Exuviaella marina</i>							2631.4									
<i>Gymnodinium aurantium</i>								5392.0								
<i>G. galesianum</i>			27958.1													
<i>G. simplex</i> ?				3289.2					2875.8							
<i>Gymnodinium</i> sp. 1	5262.7	7028.0		3289.2		26960.0	2631.4	16176.0	2875.8	1315.7	2628.9		1973.5	202.3		1265.1
<i>Gyrodinium</i> sp. 1		2811.2								1315.7				404.5	5060.2	
<i>Peridinium divergens</i>											657.0					
<i>P. inconspicuum</i> f. <i>armatum</i>				6578.4	1973.5											
<i>P. trochoideum</i>		1405.6														
<i>Peridinium</i> spp. unidentified			6578.4		1973.5					1315.7			657.9	202.3		
dinoflagellates	7894.1	4216.8		3289.2	4604.9	13480.0		5392.0	23832.8	6578.4		4927.7	2631.4	1011.3	12088.2	
TOTAL PYRRHOPHYTA	13,190.2	15,475.5	34,619.9	16,446.0	8,564.4	40,440.0	5,262.8	26,960.0	29,593.3	10,533.9	5,270.4	6,620.4	5,271.2	1,824.6	17,159.5	1,265.1
CHLOROPHYTA (green algae)																
Chlorophyte sp. 1	113147.8	137749.0	197350.8	141434.7	51311.2	269599.9	80233.5	102448.0	100838.1	44732.9	18403.8	50918.7	17761.6	11528.8	58754.2	73173.4
Filamentous chlorophytes		41.7														
TOTAL CHLOROPHYTA	113,147.8	137,790.7	197,350.8	141,434.7	51,311.2	269,599.9	80,233.5	102,448.0	100,838.1	44,732.9	18,403.8	50,918.7	17,761.6	11,528.8	58,754.2	73,173.4
CYANOPHYTA (blue-green algae)																
<i>Oscillatoria</i> spp.		13.9								16.7						
TOTAL CYANOPHYTA	0.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0
EUGLENOPHYTA (euglenoids)																
<i>Euglena</i> sp. 1				3289.2												
<i>Euglena</i> spp.	2631.4		2741.0							2631.4	657.0		1315.7		3373.5	
TOTAL EUGLENOPHYTA	2,631.4	0.0	2,741.0	3,289.2	0.0	0.0	0.0	0.0	0.0	2,631.4	657.0	0.0	1,315.7	0.0	3,373.5	0.0

TABLE H-140
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
8 JUNE 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
CRYPTOPHYTA (cryptophytes)																
<i>Chroomonas minuta</i>			2741.0	6578.4												
TOTAL CRYPTOPHYTA	0.0	0.0	2,741.0	6,578.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHRYSTOPHYCEAE (yellow-brown algae)																
<i>Chrysophyte sp. 1</i>			2741.0			13480.0			2875.8							1265.1
TOTAL CHRYSTOPHYCEAE	0.0	0.0	2,741.0	0.0	0.0	13,480.0	0.0	0.0	2,875.8	0.0	0.0	0.0	0.0	0.0	0.0	1,265.1
HAPTOPHYCEAE (haptophytes including coccolithophores)																
<i>Haptophyte sp. 1</i>	10525.4	2811.2	2741.0	6578.4		13480.0	5392.0		5751.5		1971.9				1686.7	
TOTAL HAPTOPHYCEAE	10,525.4	2,811.2	2,741.0	6,578.4	0.0	13,480.0	5,392.0	0.0	5,751.5	0.0	1,971.9	0.0	0.0	0.0	1,686.7	0.0
PRASINOPHYCEAE (prasinophytes)																
<i>Prasinophyte sp. 1</i>									2875.8						809.1	3935.7
Unidentified prasinophytes		5622.4		3289.2	13156.8		5392.0	16176.0		3947.0	1314.9	3285.1	3289.2		8433.6	15219.8
TOTAL PRASINOPHYCEAE	0.0	5,622.4	0.0	3,289.2	13,156.8	0.0	5,392.0	16,176.0	2,875.8	3,947.0	1,314.9	3,285.1	3,289.2	809.1	12,369.3	20,714.8
UNIDENTIFIED PHYTOFLAGELLATES																
<i>Phytoflagellate sp. 4</i>									2875.8							
<i>Phytoflagellate sp. 5</i>						2631.4			1315.7		657.9					
Unidentified phytoflagellates >10μ	31576.1	8433.6		9867.6	2631.4				11258.6	1315.7	1314.1		657.9	606.8	2811.2	5929.7
Unidentified phytoflagellates <10μ	592052.3	435736.5	932482.4	539425.5	198008.6	566159.9	255020.8	388223.9	269903.7	102622.4	35503.5	108407.5	87492.2	24878.0	63814.3	158680.3
TOTAL PHYTOFLAGELLATES	623,628.4	444,170.1	932,482.4	549,293.1	203,271.4	566,159.9	255,020.8	388,223.9	285,353.8	103,938.1	37,475.5	108,407.5	88,150.1	25,484.8	66,625.5	164,610.0
OTHERS																
Unidentified coccoid 2	5262.7			6578.4	7236.2	26960.0	10654.7		2875.8	1315.7						
Unidentified coccoid 3	5262.7	2811.2		6578.4	7,236.2	26,960.0	10,654.7		9698.5	2631.4	3946.2					
TOTAL OTHERS	10,525.4	2,811.2	0.0	6,578.4	7,236.2	26,960.0	10,654.7	0.0	12,574.3	3,947.1	3,946.2	0.0	0.0	0.0	0.0	0.0
TOTAL PHYTOPLANKTON	2,243,521.4	1,890,434.3	3,325,780.0	3,280,730.1	2,348,122.5	3,602,826.5	2,823,378.6	4,013,714.0	1,466,104.3	1,202,317.7	282,582.2	651,185.8	649,906.5	286,553.6	899,060.3	2,122,860.6

^a Values are mean of two replicates.

^b S = Surface; B = Bottom.

TABLE H-141

PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
14 JULY 1976

Species	Station and depth ^b																							
	S	11	8	S	12	8	S	0	8	S	1	8	S	2	8	S	3	8	S	4	8	S	5	8
BACILLARIOPHYTA (diatoms)																								
<i>Amphiprora</i> spp.								3807.8				3216.1					2223.6	2668.4						
<i>Amphora</i> spp.														1586.6										
<i>Astrionella japonica</i>			3807.8											2379.9										
<i>Bacteriasterium deltoideum</i>								3807.8						3173.2										
<i>Biddulphia aurita</i>			11423.3											7932.9			3335.5	1334.2	6226.2	2668.4				
<i>Cerataulina bergonii</i>																		1334.2						
<i>Cerataulina</i> sp. 1								1675.0	2183.3		8.3	22.1	566.7	1033.3		600.0	925.0	1516.7	2658.3		922.2	10383.3		
<i>Chaetoceros constrictus</i>								508.3	866.7		87.9	40.3	366.7	722.2		183.3	1033.3	997.2	1183.3		133.3	1833.3		
<i>C. curvisetus</i>														10312.7	1586.6							5077.1		
<i>C. gracilis</i>	57116.7		7615.5	11423.3				4188.6																
<i>C. laevis</i>																								
<i>C. lorenzianus</i>																	45584.8	33354.7	1778.9	19123.3	25349.7			
<i>C. messanensis</i>																						5077.1		
<i>C. peruvianus</i>								3807.8																
<i>Chaetoceros wighamii</i>	45693.3																			889.5				
<i>Chaetoceros</i> spp.	17135.0																			4002.6				
<i>Clinodictyon frauenfeldianum</i>			22846.7	22846.7		12184.9	52338.3	1096.4		2144.1	103127.5	82502.0	96172.7	125413.4	64041.0	50699.1	12692.6	15231.1						
<i>Clinacosphenia moniligera</i>											55.6				55.6									
<i>Clinacosphenia</i> sp. 1																							133.3	
<i>Cocconeis fluviatilis</i> v. <i>fluviatilis</i>	3807.8					7615.6											1334.2	3113.1				2538.5	3807.8	
<i>Cocconeis</i> spp.																								
<i>Corethron hystris</i>												2379.9	4759.7						4447.3	1334.2				
<i>Cyclotella conta</i>													1586.6											
<i>Cyclotella</i> spp.																			1334.2					
<i>Cymbella</i> sp. 1														2379.9										
<i>Cymbella</i> spp.		7540.9	11423.3	30462.3			3807.8																	11423.3
<i>Diploneis</i> sp.																								
<i>Eucampia cornuta</i>								4343.3	6600.0				1805.6	5188.9	405.5		4002.6	1334.2						
<i>E. zoodiacus</i>																	3058.3	3122.2	6183.3	2088.9	24250.0			
<i>Fragilaria inflata</i>																						10154.1		
<i>Gerrathopora marina</i>																								
<i>Guinardia flaccida</i>		341.7				33.3	2435.0	2666.7		283.3	538.6	1405.6	1586.6											
<i>Gyrodinium</i> spp.		41.7											2055.5	2172.2	1108.3	2219.4	2125.0	1444.4	7550.0					
<i>Hantzschia hawaii</i>																								
<i>H. membranacea</i>																								
<i>H. sinensis</i>																								
<i>Lauderia borealis</i>								8377.1	7615.6								2223.6						3807.8	
<i>Leptocylindrus danicus</i>								20181.3	56444.8		1096.4	1096.4	17452.3	23798.6	38357.9	28017.9	25349.6							
<i>Litorophora abbreviata</i>														11.1	2223.7									
<i>Melosira sulcata</i>																								
<i>Navicula halophila</i> v. <i>halophila</i>																								
<i>N. membranacea</i>																								
<i>N. warrickae</i> ?																								
<i>Nitzschia acicularis</i> v. <i>acicularis</i>																								
<i>N. oosterloides</i>																								
<i>N. oosterloides</i>	51405.1	11274.0	34270.0	38077.8	4188.6					2558.2	2558.3	4759.7	12692.6	7782.7	2668.4								5077.1	
<i>N. delicatissima</i>	17135.0	15081.8		15231.1	7996.3	3733.1					3289.2	16659.0	22212.1	60038.4	60038.4	62706.8	34688.9	2538.5						
<i>N. fasciculata</i>	5711.7	11274.0		38077.8	25131.4	34270.0	1461.9				5457.6	22212.1	46010.7	56702.9	62706.8	67598.8	50699.1	10154.1	53308.9					
<i>N. longissima</i>	11423.3		5711.7		3807.8	3733.1					1072.0	7139.6	1586.6		1334.2		2668.4	5077.1						
<i>N. paradoxa</i>		83.3									161.1													
<i>N. pragens</i> v. <i>atlantica</i>								8377.1																
<i>N. seriata</i>								116.7	50.0				3173.2	9519.5	2779.6	2668.4	1778.9							3807.8

TABLE H-141
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
14 JULY 1976

Species	Station and depth ^b																							
	11		12		0		1		2		3		4		5									
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B								
BACILLARIOPHYTA (continued)																								
<i>Nitzschia sigmaidea</i>		150.0		150.0								11.1	50.0		8.3									
<i>N. spathulata</i>						3807.8																		
<i>Nitzschia</i> sp. 2					16.7	83.3	2.8		27.8	88.9	38.9	91.7	58.3	66.7	11.1	183.3								
<i>Pinnularia</i> sp. 2				7615.6																				
<i>Pleurosigma elongatum</i>				7615.6		3807.8							25.0											
<i>Rhaphoneis surirella</i>										4759.7														
<i>Rhizosolenia alata</i>		16.7			73.3	83.3			66.7	55.6	88.9	8.3	11.1	50.0		150.0								
<i>R. alata</i> f. <i>indica</i>					106.7			17.8	27.8	22.2	55.6	16.7	16.7	33.3	66.7	83.3								
<i>R. bergonii</i>												16.7	16.7	16.7										
<i>R. calcar avis</i>					263.3	216.7	25.0	34.5	50.0	77.8	55.6	33.3	83.3	75.0	144.5	116.7								
<i>R. cylindrus</i>					66.7					55.5	11.1		16.7	116.7		16.7								
<i>R. delicatula</i>										8894.6														
<i>R. fragilissima</i>					4188.6	3733.1	1461.9	2168.4	3173.1	7932.9	10006.4	9339.3	12007.6	6670.9	5077.1	26654.5								
<i>R. imbricata</i>	233.3				1191.7	816.7	19.4	79.1	483.3	377.8	650.0	641.7	677.8	541.7	111.1	1566.7								
<i>R. imbricata</i> v. <i>shrubsolei</i>	50.0				335.0	516.7	42.6	9.6	311.1	344.4	222.2	233.3	288.9	308.3	144.4	1316.7								
<i>R. setigera</i>	8.3				565.0	750.0		12.4	572.2	933.3	738.9	775.0	1136.1	1533.3	422.2	783.3								
<i>R. stollersfothii</i>	7540.9				111948.8	67644.1	6943.8	10769.0	62669.8	57116.7	65597.5	97395.7	106735.0	96061.5	35539.3	201812.5								
<i>Skeletonema costatum</i>	28558.3	34120.7	45693.4	22846.7	66636.2	169931.6	13887.6	22317.6	59496.6	125339.5	165105.7	186786.2	106735.0	125413.6	58386.0	38077.8								
<i>Streptotheca thumensis</i>											55.6			44.4		83.3								
<i>Surirella robusta</i>		25.0	25.0	16.7			3.7																	
<i>Thalassonema nitzschioidea</i>										14279.2	6346.3	12230.1	14676.1	22681.2	22681.2									
<i>Thalassiosira</i> sp. 1			5711.7		4188.6					3173.2	19456.9	18678.6	24904.8	21347.0										
<i>Thalassiothrix frauenfeldii</i>		8.3				200.0				116.7	133.3	244.4	133.3	200.0	300.0	250.0								
<i>T. longissima</i>										11.1	11.1													
<i>T. mediterranea</i> v. <i>pacifica</i>						16.7				16.7	44.4			208.3	58.3	33.3								
Unidentified centric diatom sp. 4		83.3	37.5		2153.3	1383.3	329.6	775.6	1466.7	922.2	727.7	400.0	1477.8	808.3	300.0	3383.3								
Unidentified centric diatoms <20μ	34270.0	49426.5	119945.1	60924.5	37316.3	37853.8	6578.4	10208.6	38871.1	52357.0	22236.4	34688.9	27128.5	30686.3	15231.1	38077.8								
Unidentified centric diatoms >20μ									3173.1		1111.8			1334.2										
Unidentified pennate diatoms <20μ	85675.1	166497.2	91386.8	129464.6	52928.2	109455.1	44221.2	36546.4	83295.2	103127.5	59482.5	93393.1	64930.5	50699.1	91386.8	45693.4								
Unidentified pennate diatoms >20μ		26505.1	34270.0	38077.8	16754.3	11423.3	8771.2	3240.5	7932.9	12692.6	8338.7	10673.5	16010.2	17344.4	10154.1	7615.6								
Unidentified pennate diatoms >200μ					33.3	18.3				5.6		11.1	83.3	88.9	25.0	16.7								
Unidentified sigmoid diatom sp. 1		66.7	25.0	50.0		16.7		13.8	11.1	44.4					25.0	16.7								
Unidentified sigmoid diatoms >200μ										16.7														
TOTAL BACILLARIOPHYTA	354,123.5	357,040.5	382,769.5	426,755.0	406,393.5	601,597.3	94,729.8	105,789.1	482,813.3	601,197.4	699,493.0	803,224.6	660,175.2	589,291.3	292,764.2	578,323.9								
PYRRHOPHYTA (dinoflagellates)																								
<i>Amphidinium</i> sp. 2					4188.6							555.9		6670.9		5077.1								
<i>Ceratium furca</i> v. <i>eugranum</i>													25.0		16.7									
<i>C. fusus</i>							3.7																	
<i>C. trihoceros</i>														11.1										
<i>Euximella</i> spp.		3807.8																						
<i>Gymnodinium aurantium</i>	17135.0			11423.3		11348.7	16080.4	14131.3	3173.2	1586.6	6115.0	5336.8	9339.3	2668.4	12692.6	11423.3								
<i>G. simplex</i> ?															5077.1	3807.8								
<i>Gymnodinium</i> spp.	34270.0	15007.1	17135.0			18889.6	10598.5	22415.2	10312.8	19038.9	2779.6	1334.2	6670.9	4002.6	10154.1	22846.7								

TABLE H-141
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
14 JULY 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
PYRRHOPHYTA (continued)																
<i>Gymnodinium</i> sp. 1							3807.8					6670.9	5336.7			
<i>Peridinium hirobie</i>							3733.2							1334.2		
<i>P. trochoideum</i>	17135.0							3289.2		1586.6	3891.4		6670.9	4002.6	5077.1	
<i>Peridinium</i> spp.												1334.2	1778.9	1334.2		
<i>Prorocentrum</i> sp. 1											3335.4					
Unidentified																
dinoflagellates	114233.5	26505.1	28558.4	7615.6	37697.0	30238.3	19369.6	17664.1	5553.0	7932.9	20568.7	10673.5	26239.0	17344.4	33000.8	26654.4
TOTAL PYRRHOPHYTA	182,773.5	45,320.0	57,116.7	7,615.6	41,885.6	68,017.6	49,341.4	54,210.6	20,625.6	30,145.0	37,246.0	25,374.6	62,717.7	30,703.1	71,078.8	64,732.2
CHLOROPHYTA (green algae)																
<i>Chlamydomonas</i> sp.											11674.1	4002.6	3557.8	5336.8		3807.8
<i>Scenedesmus</i> ? sp.											4447.3	14676.0	3557.8			
Chlorophyte sp. 1	97098.5	109455.1	102810.1	121849.1	80725.0	102287.5	97579.0	81742.2	172143.5	136445.6	92281.3	82719.6	29352.1	18678.6	172619.5	11423.3
TOTAL CHLOROPHYTA	97,098.5	109,455.1	102,810.1	121,849.1	80,725.0	102,287.5	97,579.0	81,742.2	172,143.5	136,445.6	108,402.7	101,398.2	36,467.7	24,015.4	172,619.5	15,231.1
CYANOPHYTA (blue-green algae)																
<i>Oscillatoria</i> spp.		25.0					33.3								8.3	
Cyanophyte sp. 1							16754.2								15231.1	
TOTAL CYANOPHYTA	0.0	25.0	0.0	0.0			16,754.2	33.3	0.0	0.0	0.0	0.0	0.0	8.3	15,231.1	0.0
EUGLENOPHYTA (euglenoids)																
<i>Euglena</i> spp.							4188.6		1072.0			2668.4				
<i>Lepocinclis</i> sp. 1															2538.5	
TOTAL EUGLENOPHYTA	0.0	0.0	0.0	0.0	4,188.6	0.0	0.0	1,072.0	0.0	0.0	0.0	2,668.4	0.0	0.0	2,538.5	0.0
CRYPTOPHYTA (cryptophytes)																
<i>Chroomonas amphioxeta</i>							3733.2	1096.4		1586.6					2538.5	
<i>Chroomonas minuta</i>							11423.3	4751.1	2168.4	11106.0	14279.2				7615.6	
Cryptophyte spp.	68540.1	37779.1	28558.4	15231.1	40743.3	94522.6				2379.9					60924.6	30462.3
TOTAL CRYPTOPHYTA	68,540.1	37,779.1	28,558.4	15,231.1	40,743.3	109,679.1	5,847.5	2,168.4	15,072.5	14,279.2	13,897.8	4,002.6	69,822.5	102,732.4	71,078.7	30,462.3
CHRYSOPHYCEAE (yellow-brown algae and silicoflagellates)																
Chrysophyte sp. 1							4188.6	3807.8	1096.4	1072.0	793.3	1586.6				
DICTYOCHELES (silicoflagellates)																
<i>Dictyocha</i> sp.													889.5			3807.8
Silicoflagellate spp.													2668.4	1334.2		
TOTAL CHRYSOPHYCEAE	0.0	0.0	0.0	0.0	4,188.6	3,807.8	2,192.8	1,072.0	2,379.9	1,586.6	0.0	0.0	3,557.9	1,334.2	0.0	3,807.8
HAPTOPHYCEAE (haptophytes including coccolithophores)																
Haptophyte sp. 1					7615.6	4188.6				2379.9						3807.8
TOTAL HAPTOPHYCEAE	0.0	0.0	0.0	7,615.6	4,188.6	0.0	0.0	0.0	2,379.9	0.0	0.0	0.0	0.0	0.0	0.0	3,807.8
PRASINOPHYCEAE (prasinophytes)																
Prasinophyte sp. 1							4188.6		3216.1		1586.6	45028.8	12007.7	11118.2	9339.3	3807.8
<i>Tetraselmis</i> sp. 1	11423.3	41363.0	5711.7	7615.6			7615.6	1461.9	3216.1	1586.6						
Unidentified																
prasinophytes	17135.0	15081.8	11423.3		4188.6	11348.7	17542.3	22390.8	15865.8	12692.6	7782.7	8005.1	3557.8	5336.8	17769.7	7615.5
TOTAL PRASINOPHYCEAE	28,558.3	56,444.8	102,810.7	7,615.6	8,377.2	18,964.3	19,004.2	28,823.0	15,865.8	15,865.8	52,811.5	20,012.8	14,676.0	14,676.1	17,769.7	11,423.3

TABLE H-141
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
14 JULY 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
UNIDENTIFIED PHYTOFLAGELLATES																
Phytoflagellate sp. 4		7466.2						2168.4	2379.9	1586.6					2538.5	3807.8
Phytoflagellate sp. 5																3807.8
Unidentified phytoflagellates >10μ	11423.3			15231.1			2558.2	1096.4		1586.6			1334.2	889.5	4002.6	5077.1
Unidentified phytoflagellates <10μ	976696.3	949780.6	1507882.1	1523113.2	753560.3	628433.5	576337.3	684782.8	610831.9	807567.3	351891.9	400256.1	212580.5	300192.1	1177874.2	266544.8
TOTAL UNIDENTIFIED PHYTOFLAGELLATES	976,696.3	968,740.1	1,507,882.1	1,538,344.3	753,560.3	628,433.5	578,337.3	688,782.8	613,831.9	810,567.3	351,891.9	401,256.1	213,580.5	304,192.1	1,185,784.2	274,544.8
OTHERS																
Unidentified coccoid 2		3807.8	11423.3		11804.1		12791.2	5067.8			6115.0	1334.2	889.5	1334.2	2538.5	7615.6
Unidentified coccoid 3	5711.7	3807.8				3807.8			1586.6	3173.1					5077.1	
TOTAL OTHERS	5,711.7	7,615.6	11,423.3	0.0	11,804.1	3,807.8	12,791.2	5,067.8	1,586.6	3,173.1	6,115.0	1,334.2	889.5	1,334.2	7,615.6	7,615.6
TOTAL PHYTOPLANKTON	1,713,502.0	1,582,350.6	2,193,370.6	2,125,026.3	1,372,809.0	1,536,628.0	860,381.5	967,992.6	1,326,078.2	1,613,433.2	1,269,858.0	1,359,605.8	1,061,776.6	1,068,289.6	1,836,185.5	989,564.3

^a Values are mean of three replicates.

^b S = Surface; B = Bottom.

TABLE H-142

PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
11 AUGUST 1976

Species	Station and depth b															
	11		12		-0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYTA (diatoms)																
<i>Amphiprora</i> spp.									4002.5							
<i>Amphora</i> spp.			7615.6		1334.2	1778.9			4002.5		3046.2		1778.9			
<i>Bacteriastrea delioatulus</i>	15231.1												1778.9			
<i>Biddulphia alternans</i>					1334.2	3557.8			2001.3						11423.3	
<i>B. aurita</i>		15231.1			14676.0	4002.6	5336.7		40025.6	2538.5				1067.3	11423.3	30462.2
<i>Campylodira cymbelliformis</i>				38077.8		16010.2			42026.9							
<i>Cerataulina beraonii</i>	500.0		33.3			200.0			200.0		133.3				375.0	
<i>Cerataulina</i> sp. 1												12.5	12.5	11.1	6.7	
<i>Chaetoceros curvisetus</i>			30462.3													
<i>C. gracilis</i>	167542.5		137080.2	83771.2												
<i>C. laetiosus</i>														1067.3		
<i>C. laevis</i>													4269.4			
<i>C. lorenzianus</i>	243698.1	76155.7	99002.4	22846.7				10673.5								
<i>C. vistulae</i>			7615.6					2668.4								
<i>Chaetoceros</i> spp.	639707.5	15231.1	220851.4	167542.5	13341.9	5336.7		42694.0	8005.1	5077.1			3202.0			
<i>Coscinodiscus lineatus</i>				7615.6	1334.2											5711.7
<i>Coscinodiscus</i> spp.						2668.4			8005.1							
<i>Cyclotella curta</i>				7615.6												7615.6
<i>Cymbella</i> sp. 1																
<i>Cymbella</i> spp.		45693.4		15231.1	5336.8	1334.2			6003.8		9138.7		1067.3			
<i>Diploneis interrupta</i>					1334.2				2001.3							
<i>Diploneis</i> sp.								18678.6	30019.2	2538.5	6092.5				5711.7	
<i>Eucampia cornuta</i>						66.7						62.5	2855.8			
<i>E. zoodiacus</i>														33.3		
<i>Fragilaria</i> ? sp.								20012.8								
<i>Gomphonema</i> spp.						2668.4									5311.7	
<i>Gommatophora angulosa</i>								4002.6								
<i>G. marina</i>						1334.2										
<i>Guinardia flaccida</i>								12.5					12.5			25.0
<i>Gyrosigma terranum</i>		166.7														
<i>Gyrosigma</i> spp.		1433.3	33.3	50.0												
<i>Hemiaulus haukii</i>	47597.3		22846.7	22846.7		1334.2	2668.4			6.7			12.5	2134.7	25.0	16.7
<i>H. membranaceus</i>												5711.7				
<i>H. sinensis</i>	34270.0		7615.6													
<i>Isthmia</i> sp. 1															25.0	16.7
<i>Lauderia borealis</i>						4002.6										
<i>Leptocylindrus denticus</i>	60924.5		22846.7	22846.7	4002.6		8005.1	6003.8			2855.8			1067.3		
<i>Lionophora abbreviata</i>													1778.9			
<i>Melosira sulcata</i>				38077.8			10673.5	12007.7	5077.1						22846.7	
<i>Navicula halophila</i> v. <i>halophila</i>	15231.1															
<i>N. membranacea</i>							16.7									
<i>N. varriksae</i> ?	100.0	33.3	66.7	50.0	125.0	247.2	450.0	162.5	33.4	53.3	175.0	187.5	126.7	50.0	125.0	12.5
<i>Navicula</i> sp. 6					1334.2	1334.2	2668.4	2001.3								
<i>Nitzschia acicularis</i> v. <i>acicularis</i>	137080.2	137080.2	114233.5	198004.7												
<i>N. closterioides</i>		30462.3	7615.6													
<i>N. closterium</i>					30686.3	66264.6	66709.4	44028.2	22846.7	9138.7	5711.7	5711.7	1067.3	8538.8	7615.6	
<i>N. constricta</i>										30462.3	14279.2	8567.5	25616.4	48030.7	11423.3	20942.8
<i>N. delioatissima</i>	30462.3	76155.7	30462.3		24015.4	17789.1	45362.4	24015.4	2538.5	3046.2	8567.5	19990.8	15654.4	12808.2	39981.7	49501.2
<i>N. fasciculata</i>					2668.4		5336.7	4002.5								
<i>N. filiformis</i>								2001.3							5711.7	
<i>N. longissima</i>	15231.1	7615.6				3113.1		2001.3				2855.8				
<i>N. paradoxa</i>	566.7			316.7	41.7		666.7	225.0							100.0	

TABLE H-142
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
11 AUGUST 1976

Species	Station and depth ^b																							
	11		12		0		1		2		3		4		5									
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B								
BACILLARIOPHYTA (continued)																								
<i>Nitzschia pungens</i> v. <i>atlantica</i>											5711.7	2855.8												
<i>N. sigroidea</i>		33.3					66.7	12.5		6.7														
<i>Nitzschia</i> sp. 1		66.7		16.7	66.7	80.6		150.0	11.1						25.0	54.2								
<i>Nitzschia</i> sp. 2		133.3		33.3	16.7	55.6	166.6	125.0		6.7						54.2								
<i>Pleurosigma elongatum</i>					33.3	44.4	83.3	137.5				12.5	13.3	6.7										
<i>Rhaphoneis surirella</i>		15231.1		30462.3	28017.9	44472.9	8005.1	6003.8				2855.8	2134.7	8538.8	5711.7									
<i>Rhisosolenia alata</i>	33.3		33.3	16.7	41.7	19.4			44.4	26.7	137.5	37.5	44.4	6.7		37.5								
<i>R. alata</i> f. <i>indica</i>					8.3			12.5		6.7	12.5	12.5		6.7		12.5								
<i>R. calcar avis</i>						16.7			5.6	6.7		25.0		6.7	50.0	16.7								
<i>R. cylindrus</i>					8.3																			
<i>R. imbricata</i>															6.7									
<i>R. imbricata</i> v. <i>shrubsolei</i>			66.7	16.7	125.0	27.8		37.5	61.1	40.0	12.5	50.0	26.7											
<i>R. setigera</i>	33.3	133.3	33.3	250.0	483.3	580.6	633.3	1200.0	16.7	140.0	25.0	25.0	30.0	6.7	125.0	166.7								
<i>R. stouterfothii</i>											2855.8													
<i>Skeletonema costatum</i>	137080.2	106617.9	114233.5	220851.4	66709.4	44472.9	90724.7	136087.1	10154.1	48739.6	2855.8	14279.2	9606.1	21347.0	57116.8									
<i>Stauroneis anceps</i> v. <i>amerioana</i>								4002.5																
<i>Streptotheca thamesis</i>					41.7	16.7	33.3	37.5																
<i>Striatella unipunctata</i>							50.0	25.0																
<i>Surirella robusta</i>		33.3																						
<i>Synedra fulgens</i> v. <i>fulgens</i>						22.2																		
<i>S. undulata</i>					8.3	108.3						12.5												
<i>Synedra</i> sp. 1																								
<i>Synedra</i> spp.	30462.3																							
<i>Thalassionema nitzschoides</i>			22846.7	22846.7	4002.6	4447.3	8005.1	26016.6	2538.5	3046.2		2855.8	5336.7	2134.7										
<i>Thalassiosira</i> sp. 1					24015.4	29352.1	16010.3	34021.8						6404.1										
<i>Thalassiothrix frauenfeldii</i>	629.2	566.7	400.0	216.7	125.0	252.8	366.7	612.5	11.1		250.0	362.5	107.8	13.3	125.0	50.0								
<i>T. longissima</i>																								
<i>T. mediterranea</i> v. <i>pacifica</i>							16.7																	
Unidentified centric diatom sp. 4	33.3								27.8		100.0	50.0		10.0	25.0	29.2								
Unidentified centric diatoms <20μ	83771.2	45693.4	22846.7	76155.7	14676.0	15565.5	34688.9	48030.7	5077.1	21323.6	2855.8	11423.3	8183.0	8538.8	17135.0	34270.0								
Unidentified centric diatoms >20μ							2668.4							1067.3	1067.3									
Unidentified pennate diatom sp. 1							13341.8																	
Unidentified pennate diatom sp. 3							5336.7																	
Unidentified pennate diatoms <20μ	89482.9	990023.6	182773.6	228467.0	65375.2	151207.9	154765.7	152097.3	81232.7	167542.4	54260.9	71395.9	20279.6	37357.2	188485.2	308430.4								
Unidentified pennate diatoms >20μ	30462.3	137080.2	45693.4	76155.7	25349.5	38691.4	48030.8	42026.9	12692.6	12184.9	17135.0	8567.5		10673.5	17135.0	38077.8								
Unidentified pennate diatoms >200μ		33.3			8.3	19.4	66.7	25.0	11.1			37.5		3.3	75.0	12.5								
Unidentified sigmoid diatom sp. 1	20.8	933.3	166.7	183.3	91.7	125.0	516.7	462.5	5.6	20.0		12.5			75.0	66.7								
Unidentified sigmoid diatoms >200μ					25.0	11.1																		
TOTAL BACILLARIOPHYTA	1,749,122.3	1,725,251.1	1,105,124.0	1,280,532.0	329,460.2	463,901.2	606,252.7	717,894.4	152,539.3	320,300.6	123,588.4	155,089.9	105,348.9	168,771.2	401,042.1	514,546.7								

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TABLE H-142
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
11 AUGUST 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
PYRRHOPHYTA (dinoflagellates)																
<i>Amphidinium</i> sp. 1						1334.2										
<i>Amphidinium</i> spp.	95194.6								2538.5							
<i>Ceratium furca</i> v.																
<i>eugrammum</i>	404.2		66.7		8.3		50.0		33.3	6.7	75.0		24.4	3.3		
<i>C. fusus</i>					8.3								13.3			
<i>C. trichoeroes</i>	175.0					8.3	33.3					12.5	13.3			
<i>C. tripos</i>									5.6							
<i>Enicostella</i> spp.									2538.5							
<i>Gymnodinium aureantium</i>	68540.1		22846.7		1334.2		8005.1		2538.5	6092.5	2855.8				5711.7	5711.7
<i>G. simplex</i>	24750.6		15231.1						5077.1	9138.7			1067.3	2134.7		
<i>Gymnodinium</i> spp.	74251.8			7615.6	1334.2	3557.8	8005.1		7615.6	6092.5		6854.0	12096.6	1067.3	28558.4	
<i>Gymnodinium</i> sp. 1			7615.6	7615.6	2668.4	4447.3	10673.5	6003.8	5077.1		2855.8			1067.3	5711.7	5711.7
<i>Peridinium hirobie</i>	9519.5															
<i>P. trochoideum</i>			22846.7		1334.2						5711.7					
<i>Peridinium</i> spp.					4002.6	2668.4	2668.4	2001.3					2134.7	2846.2		
<i>Prorocentrum</i> spp.							2668.4						3202.0			
Unidentified																
dinoflagellates	192293.1	45693.4	60924.5	68540.1	12007.7	15565.5	42694.0	10006.4	12692.6	24369.8	17135.0	11423.3	15654.4	7471.4	51405.1	24750.6
TOTAL PYRRHOPHYTA	465,128.9	45,693.4	129,531.3	83,771.3	22,697.9	27,581.5	74,797.8	18,011.5	38,116.8	45,700.2	28,633.3	28,558.3	37,052.2	11,744.0	91,386.9	36,174.0
CHLOROPHYTA (green algae)																
<i>Chlamydomonas</i> sp.					8005.1	7560.4	42694.0	4002.5	2538.5	3046.2	2855.8		3557.8	3202.0		
<i>Scenedesmus</i> ? sp.							2668.4									
Chlorophyte sp. 1	74251.8	45693.4	30462.3	68540.1	76048.7	124079.4	146760.6	60038.4	27923.7	54832.1	42837.5	28558.4	68310.4	64041.0	154215.2	53309.0
TOTAL CHLOROPHYTA	74,251.8	45,693.4	30,462.3	68,540.1	84,053.8	131,639.8	192,123.0	64,040.9	30,462.2	57,878.3	45,693.3	28,558.4	71,868.2	67,243.0	154,215.2	53,309.0
CYANOPHYTA (blue-green algae)																
<i>Anabaena</i> spp.															25.0	
<i>Oscillatoria</i> spp.					25.0	8.3	16.7	37.5								
TOTAL CYANOPHYTA	0.0	0.0	0.0	0.0	25.0	8.3	16.7	37.5	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0
EUGLENOPHYTA (euglenoids)																
<i>Euglena</i> spp.	15231.1			7615.6			2668.4	2001.3								
TOTAL EUGLENOPHYTA	15,231.1	0.0	0.0	7,615.6	0.0	0.0	2,668.4	2,001.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CRYPTOPHYTA (cryptophytes)																
<i>Chroomonas minuta</i>	49501.2		22846.7												5711.7	7615.6
Cryptophyte spp.	536897.4	106617.9	144695.8	106617.9	45362.4	71156.6	186786.2	100064.0	27923.7	198004.7	19990.9	19990.8	37713.0	140890.2	34270.0	34270.0
TOTAL CRYPTOPHYTA	586,398.6	106,617.9	167,542.5	106,617.9	45,362.4	71,156.6	186,786.2	100,064.0	27,923.7	198,004.7	19,990.9	19,990.8	37,713.0	140,890.2	39,981.7	41,885.6
CHRYSOPHYCEAE (yellow-brown algae)																
Chrysophyte sp. 1				7615.6												
Chrysophyte sp. 2					1334.2	1778.9		4002.5					2134.7	13875.5		
TOTAL CHRYSOPHYCEAE	0.0	0.0	0.0	7,615.6	1,334.2	1,778.9	0.0	4,002.5	0.0	0.0	0.0	0.0	2,134.7	13,875.5	0.0	0.0
HAPTOPHYCEAE (haptophytes including coccolithophores)																
Haptophyte sp. 1	15231.1	15231.1	15231.1	53309.0					2538.5	12184.9	2855.8	5711.7			28558.4	5711.7
TOTAL HAPTOPHYCEAE	15,231.1	15,231.1	15,231.1	53,309.0	0.0	0.0	0.0	0.0	2,538.5	12,184.9	2,855.8	5,711.7	0.0	0.0	28,558.4	5,711.7

TABLE H-142
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
11 AUGUST 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
PRASINOPHYCEAE (prasinophytes)																
<i>Tetraselmis</i> sp. 1	9519.5								2538.5	3046.2						
Prasinophyte sp. 1			7615.6	7615.6	20012.8	14676.0	130750.3	8005.1	5077.1	12184.9		2855.8	8538.8	21347.0		
Unidentified prasinophytes			53309.0	15231.1	2668.4	1334.2	2668.4			3046.2		14279.2	2846.2	1067.3	17135.0	
TOTAL PRASINOPHYCEAE	9,519.5	0.0	60,924.6	22,846.7	22,681.2	16,010.2	133,418.7	8,005.1	7,615.6	18,277.3	0.0	17,135.0	11,385.0	22,414.3	17,135.0	0.0
UNIDENTIFIED PHYTOFLAGELLATES																
Phytoflagellate sp. 4				7615.6						18277.4		2855.8			11423.3	
Unidentified																
phytoflagellates >10μ	19038.9			7615.6	2668.4	4002.6	2668.4	2001.3	5077.1		5711.7	8567.5			22846.7	17135.0
Unidentified																
phytoflagellates <10μ	2823471.2	2162820.8	1934353.8	1774426.9	325541.7	387803.7	715124.3	374239.5	510242.9	993069.8	431231.4	596870.0	315223.9	629736.4	1279415.1	906252.4
TOTAL UNIDENTIFIED	2,842	2,162	1,934	1,789	328	391	717	376	515	1,011	436	608	315	629	1,313	923
PHYTOFLAGELLATES	510.1	820.8	353.8	658.1	210.1	806.3	792.7	240.8	320.0	347.2	943.1	293.3	223.9	736.4	685.1	387.4
OTHERS																
Unidentified coccoid 2				15231.1	5336.8	6226.2	8005.1	4002.6		9138.7			25260.6			
Unidentified coccoid 3										3046.2						
TOTAL OTHERS	0.0	0.0	0.0	15,231.1	5,336.8	6,226.2	8,005.1	4,002.6	0.0	12,184.9	0.0	0.0	25,260.6	0.0	0.0	0.0
TOTAL PHYTOPLANKTON	5,757	4,101	3,443	3,435	839	1,110	1,921	1,294	774	1,675	657	863	605	1,054	2,046	1,575
	393.4	307.7	169.6	737.4	161.6	109.0	861.2	300.6	516.1	878.1	704.8	337.9	986.5	674.6	029.4	014.4

^a Values are mean of three replicates.

^b S = Surface; B = Bottom.

TABLE H-143
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
14 SEPTEMBER 1976

Species	Station and depth ^b																							
	S	11	B	S	12	B	S	0	B	S	1	B	S	2	B	S	3	B	S	4	B	S	5	B
BACILLARIOPHYTA (diatoms)																								
<i>Amphiprora</i> spp.														2667.5						2668.4			5336.7	
<i>Amphora</i> spp.								26654.5					7615.6										5336.7	
<i>Astrionella japonica</i>																								
<i>Bacteriastrium delicatulum</i>						5711.7																10673.5		
<i>Biddulphia alternans</i>								28558.4	15231.1	12692.6	5335.1	4002.6	3046.2	17135.0								21347.0		19038.9
<i>B. acuta</i>			7615.6				22846.7	85675.1	45693.4	152311.3	8002.6	16010.3	6092.5	11423.3	13341.9							10673.5	11423.3	57116.8
<i>B. dubia</i>																								
<i>B. longicarinata</i>																								
<i>B. mobilensis</i>																								
<i>Cerataulina bergonii</i>							187.5	366.7	166.7	222.2					700.0							100.0	233.3	
<i>Cerataulina</i> sp. 1												216.7	50.0											
<i>Chaetoceros eibonii</i>								75.0	166.7		222.2	133.3	150.0			53.3	275.0					33.3	125.0	458.3
<i>C. laevis</i>	1313685.2	198004.7		91386.8	97098.5	5711.7																		
<i>Chaetoceros</i> spp.	214187.8	5711.7		34270.0	68540.1																			
<i>Cocconeis fluviatilis</i> v. <i>fluviatilis</i>						5711.7		17135.0																
<i>Cocconeis</i> spp.																								
<i>Coscinodiscus lineatus</i>								28558.4	15231.1	12692.6														
<i>Coscinodiscus</i> spp.			3807.8							76155.7														9519.5
<i>Cyclotella conta</i>																								
<i>Cyclotella</i> spp.																								
<i>Cymatocera belgica</i>																								
<i>Cymbella</i> spp.						5711.7	11423.4																	47597.3
<i>Diploneis elliptica</i> v. <i>elliptica</i>																								19038.9
<i>D. interrupta</i>						5711.7				7615.6														
<i>Diploneis</i> sp.			3807.8			22846.7		34270.1	30462.3	25385.2	5335.0	4002.6	12184.9	62828.4									19038.9	123752.9
<i>Fragilaria inflata</i>								9519.5		25385.2				5711.7										9519.5
<i>Fragilaria</i> ? sp.			26654.5					76155.7					21323.6	57116.7										
<i>Gyrodinium terreyanum</i>								16.7																
<i>Gyrodinium</i> spp.			8.3	12.5																				
<i>Lithodermium undulatum</i>								50.0																291.7
<i>Melosira auxosporea</i>																								
<i>M. sulcata</i>								11423.3	28558.4	60924.5	38077.8	34677.8	16010.3											
<i>Melosira</i> sp. 1								5711.7																
<i>Navicula cancellata</i>																								
<i>N. halophila</i> v. <i>halophila</i>																								
<i>N. membranacea</i>																								
<i>N. varians</i> ?																								
<i>Navicula</i> sp. 6			5711.7																					
<i>Nitzschia acicularis</i> v. <i>closterioides</i>																								
<i>N. closterium</i>																								
<i>N. constricta</i>			19038.9		11423.3	22846.7		22846.7	68540.1	45693.4	50770.4	34677.8	48030.7	15231.2	34270.0	16010.2	90724.7							
<i>N. delicatissima</i>																								
<i>N. fasciculata</i>			9519.4																					
<i>N. filiformis</i>																								
<i>N. longissima</i>																								
<i>N. paradoxa</i>																								
<i>N. sigma</i>																								
<i>N. sigmaidea</i>																								
<i>N. spathulata</i>																								
<i>Nitzschia</i> sp. 1																								
<i>Nitzschia</i> sp. 2																								
<i>Pinnularia</i> sp. 2																								

TABLE H-143
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
14 SEPTEMBER 1976

Species	Station and depth ^b																							
	11		12		0		1		2		3		4		5									
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B								
BACILLARIOPHYTA (continued)																								
<i>Pleurosigma elongatum</i>						20.8		222.2		50.0	25.0				66.7									
<i>Rhaphoneis surirella</i>	19038.9				68540.1	78059.6	22846.7	139618.7	10670.1	8005.1	25.0	21323.6	28558.4	18678.6	53367.5	53308.9	76155.7							
<i>Rhizosolenia imbricata</i>											25.0				233.3									
<i>R. robusta</i>					12.5		66.7	55.6	50.0	25.0		6.7	12.5	8.3		41.7	41.7							
<i>R. setigera</i>					62.5	204.2		55.6	183.3	600.0		6.7	200.0	125.0		700.0	166.7							
<i>Skeletonema costatum</i>	79963.4	17135.0	17135.0	205620.3	171350.2	213235.9	253852.2	189393.9	388248.5			85294.3	188485.3	168107.6	250827.2	83771.2	190389.2							
<i>Stauroneis anceps</i> v. <i>americana</i>					9519.5	15231.1																		
<i>Streptotheoa thamesis</i>									100.0															
<i>Striatella wislizeni</i>																	41.7							
<i>Thalassionema nitzschoides</i>	14279.2	3807.8			22846.7	30462.3	22846.7		18672.6		6092.5	11423.3			5336.7	41885.6	19038.9							
<i>Thalassiosira</i> sp. 1	11423.3				17135.0	89482.9		25385.2	82693.1	84053.8	33508.5	57116.7	69377.7	128082.0	26654.5	9519.5								
<i>Thalassiothrix frauenfeldii</i>									283.3	100.0		25.0		108.3	166.7									
<i>T. mediterranea</i> v. <i>pacifica</i>									33.3	25.0				16.7										
<i>Tropidoneis</i> sp. 2												11423.3												
Unidentified centric diatom sp. 4			12.5																					
Unidentified centric diatoms <20μ	14279.2	20942.8	5711.7	28558.4	28558.4	95194.6	38077.8	139618.7	88028.2	96061.5	24369.8	91386.8	178781.1	128082.0	38077.8	66636.2								
Unidentified centric diatoms >20μ									2667.5		3046.2	5711.7												
Unidentified pennate diatom sp. 1							30462.3	393470.9			6092.5	22846.7		64041.0		104714.0								
Unidentified pennate diatom sp. 3							7615.6				6092.5													
Unidentified pennate diatoms <20μ		161830.8	17135.0	51405.0	405528.9	1241337.3	974792.5	1840428.5	122706.0	408261.3	176681.1	342700.5	221475.1	539011.6	118041.3	647323.1								
Unidentified pennate diatoms >20μ	14279.2	30462.2	11423.3	28558.4	39981.7	83771.2	83771.2	126926.1	18672.6	40025.6	3046.2	34270.0	10673.5	37357.2		57116.7								
Unidentified pennate diatoms >200μ										25.0			12.5			41.7								
Unidentified sigmoid diatom sp. 1		20.8		75.0		154.2		222.2	16.7	325.0	13.3	12.5	16.7	300.0	16.7	375.0								
Unidentified sigmoid diatoms >200μ								55.6	33.3	200.0				8.3	133.3									
TOTAL BACILLARIOPHYTA	1,570,710.6	607,370.4	188,510.1	354,223.8	937,114.8	2,315,353.8	1,797,523.9	3,491,689.8	705,575.3	1,303,182.8	460,060.2	1,091,842.3	779,540.4	1,549,590.1	438,311.6	1,505,574.6								
PYRRHOPHYTA (dinoflagellates)																								
<i>Amphidinium</i> spp.																3807.8								
<i>Ceratium furca</i> v. <i>eugrammus</i>	93.8											26.7		8.3		8.3								
<i>C. fusus</i>	31.3												12.5											
<i>C. setaceum</i>														8.3										
<i>C. trichooceros</i>	437.5		25.0									6.7		8.3		33.3								
<i>Ceratium</i> sp. 3					112.5	20.8	50.0	55.6					12.5		33.3									
<i>Excavella</i> spp.			5711.7																					
<i>Gymnodinium aurantium</i>				5711.7	17135.0	7615.6	45693.4	12692.6	2667.5							7615.5								
<i>G. galeatum</i>				11423.3		7615.6			2667.5															
<i>Gymnodinium</i> spp.	3807.8	17135.0		17135.0		24750.6	30462.3				12184.9	5711.7	2668.4	2668.4		11423.3								
<i>Gymnodinium</i> sp. 1					5711.7	7615.6			2667.5								9519.5							
<i>Peridinium inconspicuum</i> f. <i>armatum</i>			97098.5	85675.1							3046.2													
<i>P. trochoideum</i>									8002.6						2668.4									
<i>Peridinium</i> spp.	3807.8					7615.6	22846.7	12692.6	2667.5															

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TABLE H-143
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
14 SEPTEMBER 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
PYRRHOPHYTA (continued)																
<i>Prorocentrum micans</i>				5711.7											5336.7	
<i>Prorocentrum</i> spp.	14279.2															
Unidentified dinoflagellates		3807.8	39981.7	5711.7		9519.5	7615.6	12692.6	10670.1	12007.7	18277.4	5711.7	24015.4		22846.7	9519.5
TOTAL PYRRHOPHYTA	14,841.8	11,423.4	165,663.6	125,656.8	22,959.2	64,753.3	114,283.6	38,133.4	29,342.7	12,007.7	33,541.9	11,448.4	32,045.5	10,706.7	45,734.9	19,039.0
CHLOROPHYTA (green algae)																
<i>Chlamydomonas</i> sp.		3807.8						12692.6							3807.8	9519.5
<i>Polyedriopsis quadrispina</i>															5336.7	
Chlorophyte sp. 1		9519.4		11423.3	5711.7	34270.0	7615.6	25385.2	56017.9	60038.4		28558.4	101398.2	106735.0	3807.8	
Colonial chlorophytes										8005.1				5336.7		
TOTAL CHLOROPHYTA	0.0	13,327.2	0.0	11,423.3	5,711.7	34,270.0	7,615.6	38,077.8	56,017.9	68,043.5	0.0	28,558.4	101,398.2	117,408.4	7,651.6	9,519.5
CYANOPHYTA (blue-green algae)																
<i>Anabaena</i> spp.					62.5	75.0	66.7	333.3	283.3	250.0	73.3	400.0	166.7	233.3	191.7	41.7
<i>Lyngbya</i> spp.													25.0			
<i>Oscillatoria</i> spp.													8.3	166.7		
TOTAL CYANOPHYTA	0.0	0.0	0.0	0.0	62.5	75.0	66.7	333.3	283.3	250.0	73.3	400.0	200.0	400.0	191.7	41.7
EUGLENOPHYTA (euglenoids)																
<i>Euglena</i> spp.	42837.6		5711.7	5711.7					2667.5							
TOTAL EUGLENOPHYTA	42,837.6	0.0	5,711.7	5,711.7	0.0	0.0	0.0	0.0	2,667.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CRYPTOPHYTA (cryptophytes)																
Cryptophyte spp.	314142.1	19038.9	342700.5	382682.2	79963.5	78059.6	152311.3	114233.5	136043.5	116074.3	57878.3	74251.7	122745.2	112071.7	64732.3	47597.3
TOTAL CRYPTOPHYTA	314,142.1	19,038.9	342,700.5	382,682.2	79,963.5	78,059.6	152,311.3	114,233.5	136,043.5	116,074.3	57,878.3	74,251.7	122,745.2	112,071.7	64,732.3	47,597.3
XANTHOPHYTA (xanthophytes)																
<i>Balophylla</i> sp. 1					12.5											
TOTAL XANTHOPHYTA	0.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHRYSTOPHYCEAE (yellow-brown algae and silicoflagellates)																
Chrysophyte sp. 2									5335.0				5336.7			
Chrysophyte sp. 3											82248.1	79963.4				
DICTYOCHELES (silicoflagellates)																
<i>Dictyocha</i> sp.								25385.2		4002.6		5711.7				
TOTAL CHRYSTOPHYCEAE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25,385.2	5,335.0	4,002.6	82,248.1	85,675.1	5,336.7	0.0	0.0	0.0
HAPTOPHYCEAE (haptophytes including coccolithophores)																
Haptophyte sp. 1	42837.6	3807.8	5711.7	17135.0			7615.6						13341.9			
TOTAL HAPTOPHYCEAE	42,837.6	3,807.8	5,711.7	17,135.0	0.0	0.0	7,615.6	0.0	0.0	0.0	0.0	0.0	13,341.9	0.0	0.0	0.0
PRASINOPHYCEAE (prasinophytes)																
Prasinophyte sp. 1	14279.2	3807.8	45693.4	62828.4			53309.0		77358.1	28017.9	33508.5		48030.7	10673.5	60924.5	
<i>Tetraselmis</i> sp. 1			74251.8	57116.7			45693.4									
Unidentified prasinophytes			62828.4	17135.0	11423.3			12692.6								9519.5
TOTAL PRASINOPHYCEAE	14,279.2	3,807.8	182,773.6	137,080.1	11,423.3	0.0	99,002.4	12,692.6	77,358.1	28,017.9	33,508.5	0.0	48,030.7	10,673.5	60,924.5	9,519.5

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TABLE H-143
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
14 SEPTEMBER 1976

Species	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
UNIDENTIFIED PHYTOFLAGELLATES																
Phytoflagellate sp. 3																
Phytoflagellate sp. 4			5711.7			5711.7									7615.5	
Phytoflagellate sp. 5	3807.8			17135.0												
Unidentified phytoflagellates >10μ	3807.8		5711.7										2668.4			9519.5
Unidentified																
phytoflagellates <10μ	1056659.8	289391.5	1085218.2	748229.4	445510.7	573071.4	1043332.6	1269261.1	544174.1	516330.5	725001.9	1062371.5	685772.2	565695.4	689208.8	1009062.5
TOTAL UNIDENTIFIED	1,056,297	1,096,297	1,096,297	765,765	451,451	582,582	1,043,1,043	1,269,1,269	544,544	516,516	725,725	1,062,1,062	688,688	565,565	696,696	1,018,1,018
PHYTOFLAGELLATES	659.8	007.1	641.6	364.4	222.4	590.9	332.6	261.1	174.1	330.5	001.9	371.5	440.6	695.4	824.3	582.0
OTHERS																
Unidentified auxospores																
Unidentified 3		3807.8		5711.7	5711.7											9519.5
Unidentified coccoid 2																
Unidentified coccoid 3									13337.6				13341.8	5336.7	3807.8	
TOTAL OTHERS	0.0	3,807.8	0.0	5,711.7	5,711.7	0.0	0.0	0.0	13,337.6	0.0	0.0	0.0	13,341.8	21347.0	11423.3	
TOTAL PHYTOPLANKTON	3,056,308.7	959,590.4	1,987,712.8	1,804,989.0	1,514,181.7	3,075,102.6	3,221,751.7	4,989,806.7	1,570,135.0	2,047,909.3	1,392,312.2	2,354,547.4	1,804,421.0	2,393,229.5	1,329,566.0	2,619,393.1

^a Values are mean of three replicates.

^b S = Surface; B = Bottom.

TABLE H-144

PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
15 OCTOBER 1976

Species	Station and depth ^b																							
	11		12		0		1		2		3		4		5									
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B								
BACILLARIOPHYTA (diatoms)																								
<i>Actinopterygus undulatus</i>			22846.7				19038.9						10673.5			22846.7								
<i>Amphiprora</i> spp.			45693.4				19038.9				7615.6	4002.6												
<i>Asterionella japonica</i>				19038.9									10673.5											
<i>Bellerophonella malleus</i> var. ?			700.0	83.3			133.3						10673.5											
<i>Biddulphia alternans</i>				38077.8				40025.6			15231.1		12007.7			68540.1								
<i>B. carita</i>	38077.8	91386.8				258929.3	228467.0	320204.9	106735.0	20308.2	38077.8	8005.1	85388.0			93186.8								
<i>B. longioruris</i>	19038.9	68540.1	19038.9						66709.3	5077.0				9519.5	91386.8	7615.6								
<i>B. mobilensis</i>										10154.1					53309.0									
<i>B. pulchella</i>											7615.6													
<i>B. rhombus</i>																45693.4								
<i>Campylodiscus cymbelliformis</i>						91386.8	38077.8			5077.0	22846.7													
<i>Ceratocapsa bergonii</i>	416.7	200.0			666.7			500.0	1333.3	555.6		550.0			1100.0	66.7								
<i>Chaetoceros brevis</i>														125.0		500.0								
<i>C. eibonii</i>										44.4						16.7								
<i>Chaetoceros</i> spp.						30462.3	38077.8			15231.1		12007.7	21347.0		45693.4									
<i>Clitracosphenia moniligera</i>									83.3															
<i>Dacrydium pediculus</i> v. <i>pediculus</i>						15231.1																		
<i>Cocconeidiscus lineatus</i>	38077.8	45693.4	19038.9			15231.1	38077.8			20308.2				9519.5	22846.7	68540.1								
<i>C. radiatus</i>	83.3	200.0			83.3		83.3					25.0												
<i>Cocconeidiscus</i> spp.				38077.8				40025.6	106734.9	5077.0		8005.1	74714.5			91386.8								
<i>Cyclotella conta</i>						30462.3	19038.9																	
<i>Cyclotella</i> spp.	38077.8	91386.8	19038.9				133272.4				22846.7		10673.5	9519.5	45693.4	22846.7								
<i>Cymatocera belgica</i>		22846.7			38077.8	258929.3		253495.6	266837.4	55847.5		40025.6	106735.0	38077.8	68540.1	205620.3								
<i>Cymbella</i> spp.							19038.9					4002.6	10673.5		22846.7	45693.4								
<i>Diploneis interrupta</i>			22846.7						26683.7															
<i>D. smithii</i> v. <i>smithii</i>													10673.5											
<i>Diploneis</i> sp.	38077.8	91386.8	133272.4		38077.8	45693.4	57116.7			15231.1	45693.4		21347.0	9519.5	22846.7	7615.6								
<i>Fragilaria inflata</i>							38077.8								22846.7	159926.9								
<i>Grammatophora marina</i>							19038.9																	
<i>Gyrodinium</i> spp.	250.0	300.0	250.0		166.7		83.3								200.0	100.0								
<i>Lithodendrium undulatum</i>					166.7								25.0											
<i>Melosira sulcata</i>		182773.6		19038.9			57116.7	26683.7	40025.6	15231.1	99002.4		64041.0	57116.7	22846.7									
<i>Melosira</i> sp. 1										5077.0														
<i>Navicula lyra</i> v. <i>lyra</i>																400.0								
<i>N. warrickae</i> ?								83.3		22.2		25.0												
<i>Navicula</i> sp. 6	19038.9	45693.4	19038.9			15231.1	19038.9	26683.7	26683.7			8005.1	53367.5			22846.7								
<i>Nitzschia acicularis</i> v. <i>acicularis</i>																								
<i>N. closterioides</i>			22846.7	38077.8		19038.9		38077.8		13341.9	10154.1	15231.1			45693.4	22846.7								
<i>N. closterium</i>	76155.6	91386.8	171350.2		76155.7	106617.9	133272.4	106735.0	66709.3	20308.2	7615.6	20012.8	64041.0	19038.9	91386.8	22846.7								
<i>N. constricta</i>			68540.1	19038.9			15231.1	19038.9		10154.1	15231.1		42694.0			45693.4								
<i>N. delicatissima</i>			68540.1	133272.4		95194.6	106617.9	133272.4	146760.6	253495.6	167542.5	106617.9	56035.9		297007.1	45693.4								
<i>N. fasciculata</i>	19038.9	45693.4	38077.8						13341.9		5077.0	7615.6	4002.6			91386.8								
<i>N. filiformis</i>														32020.5										
<i>N. longissima</i>	19038.9	22846.7	19038.9				19038.9	13341.9		5077.0		4002.6												
<i>N. paradoxa</i>	18583.3	35700.0	14583.3		29250.0	17266.7	5750.0	15333.3	2666.7	1844.4	2466.7	8000.0	51933.3	3750.0	6200.0	2900.0								
<i>N. seriata</i>						266.7										10500.0								
<i>N. sigmoidea</i>	333.3	400.0	583.0		333.3	266.7	83.3		250.0	22.2	33.3			333.3	200.0	200.0								
<i>N. spatulata</i>		22846.7																						
<i>Nitzschia</i> sp. 1	416.7	900.0	750.0		500.0	933.3	1083.3	1666.7	1083.3	155.5	66.7	600.0	3466.7	104.2	500.0	66.7								
<i>Nitzschia</i> sp. 2	83.3	500.0			166.7	200.0	833.3		166.7	66.7	66.7	75.0	66.7	83.3	200.0	200.0								
<i>Pinnularia</i> sp. 1												7615.6			22846.7									
<i>Pinnularia</i> sp. 2	19038.9														22846.7	7615.6								

TABLE H-144
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
15 OCTOBER 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYTA (continued)																
<i>Pleurosigma elongatum</i>							916.7	250.0								
<i>Rhaphoneis surirella</i>	19038.9	319853.8	133272.4	38077.8	198004.7	95194.6	186786.2	120076.8	472165.1	60924.5	112071.7	117408.5	9519.5	594014.2	53309.0	159926.9
<i>Rhizosolenia calcar avis</i>									22.2		25.0					100.0
<i>R. unbricata</i> v. <i>shrubsolei</i>					66.7						25.0					
<i>R. robusta</i>									22.2							
<i>R. setigera</i>		300.0		83.3	200.0		166.7	250.0			25.0	200.0		100.0		300.0
<i>Scolioptera</i> sp.						19038.9										
<i>Skeletonema costatum</i>	552128.5	1142335.0	514050.7	380778.3	319853.8	1561191.1	440281.8	867221.7	132003.1	304622.7	100064.0	277511.0	76155.6	685401.0	129464.6	114233.5
<i>Stauroneis anceps</i> v. <i>amerloana</i>												10673.5				
<i>Streptothoea thamesis</i>									44.4		50.0					
<i>Striatella unipunctata</i>		300.0	166.7	83.3	66.7	250.0	500.0	333.3						200.0		
<i>Thalassionera</i>																
<i>nitzschoides</i>	76155.7		114233.5	19038.9	91386.8	38077.8	106735.0	26683.7		15231.1			142791.9		7615.6	
<i>Thalassiostris decipiens</i>								26683.7								
<i>Thalassiostris</i> sp. 1	114233.5	548320.8	437895.1	285583.7	335084.9	475972.9	760486.7	667093.6	289391.5	198004.7	136087.1	42694.0	266544.8	228467.0	563551.9	228467.0
<i>Thalassiostris</i>																
<i>frauenfeldii</i>	250.0				66.7		83.3			100.0					66.7	
<i>Tropidoneis</i> sp. 2														22846.7		
Unidentified centric diatom sp. 4														100.0		
Unidentified centric diatoms <20μ	95194.5	365547.2	247505.9	95194.6	76155.7	76155.6	520333.0	480307.4	45693.4	83771.2	184117.8	362898.9	19038.9	205620.3	68540.1	228467.0
Unidentified centric diatoms >20μ							13341.9		5077.0							
Unidentified pennate diatom sp. 1	228467.0	137080.2	190389.2	76155.6	45693.4	114233.5	453623.6	93393.1	25385.2	106617.9			9519.5	22846.7	15231.1	91386.8
Unidentified pennate diatom sp. 3								26683.7	5077.0							
Unidentified pennate diatoms <20μ	837712.3	2170436.4	837712.3	932906.8	548320.8	2189475.3	1134059.1	1534315.3	233544.0	350316.1	392251.1	1761127.1	399817.3	1873429.3	228467.0	1644962.3
Unidentified pennate diatoms >20μ	95194.6	319853.8	133272.4	114233.5	30462.3	304622.6	186786.2	146760.6	40616.4	68540.1	44028.2	224143.4	19038.9	228467.0	22846.7	205620.3
Unidentified pennate diatoms >200μ	250.0	200.0	166.7	83.3	66.7	416.7	1083.3	333.3	22.2		125.0	66.7		100.0		500.0
Unidentified sigmoid diatom sp. 1	2083.3	3100.0	6666.7	2583.3	2733.3	1833.3	2916.7	3333.3	400.0	366.7	900.0	4333.3	416.7	3400.0	300.0	2500.0
Unidentified sigmoid diatoms >200μ						83.3	666.7	83.3								
TOTAL BACILLARIOPHYTA	2,364,536.2	6,120,022.1	3,431,215.3	2,299,797.3	2,657,252.8	5,969,679.9	4,813,648.7	4,973,342.5	1,658,338.0	1,594,753.5	1,159,285.3	3,498,266.4	1,146,814.3	4,718,720.1	1,221,924.3	3,716,765.3
PYRRHOPHYTA (dinoflagellates)																
<i>Ceratium furca</i> v. <i>eugrammum</i>								166.7								
<i>C. teres</i>			83.3								50.0	133.3				
<i>Ectocarpus</i> spp.																
<i>Gymnodinium aureum</i>									15231.1				19038.9		7615.6	
<i>G. viride</i>									5077.0						30462.3	
<i>Gymnodinium</i> sp. 2																
<i>Gymnodinium</i> spp.		22846.7											9519.5			
<i>Gyrodinium</i> sp. 1					15231.1				10154.1		8005.1		9519.5	22846.7	38077.8	
<i>Peridinium hiobis</i>									5077.0		8005.1					
<i>P. inconspicuum</i> f. <i>armatum</i>											4002.6				7615.6	
<i>P. trochoideum</i>											4002.6		19038.9			

TABLE H-144
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
15 OCTOBER 1976

Species	Station and depth ^b																							
	11		12		0		1		2		3		4		5									
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B								
PYRRHOPHYTA (continued)																								
<i>Peridinium</i> spp.			19038.9		15231.1								4002.6											
<i>Prorocentrum micans</i>													4002.6											
<i>Prorocentrum</i> spp.							13341.9																	
Unidentified dinoflagellates		22846.7	38077.8			19038.9	40025.6	26683.7	15231.1	7615.6	40025.6				7615.6	45693.4								
TOTAL PYRRHOPHYTA	0.0	45,693.4	57,200.0		0.0	30,462.3	19,038.9	53,534.2	26,683.7	50,770.3	7,615.6	72,096.2	133.3	57,116.8	22,846.7	91,386.9 45,693.4								
CHLOROPHYTA (green algae)																								
<i>Chlamydomonas</i> sp.						19038.9									22846.7	22846.7								
<i>Polyedriopsis quadripina</i>						38077.8			13341.9		5077.0													
Chlorophyte sp. 1	19038.9				15231.1	19038.9		53367.5	10154.1	15231.1	32020.5				137080.2									
TOTAL CHLOROPHYTA	19,038.9	0.0	0.0	38,077.8	15,231.1	38,077.8	13,341.9	53,367.5	15,231.1	15,231.1	32,020.5	0.0	0.0	159,926.9	0.0	22,846.7								
CYANOPHYTA (blue-green algae)																								
<i>Anabaena</i> spp.	83.3		83.3	83.3		166.7	500.0	83.3	111.1	66.7	450.0	333.3		400.0		100.0								
<i>Oscillatoria</i> spp.	166.7					166.7	166.7	83.3	444.4		125.0				2750.0	300.0								
Cyanophyte sp. 1		297007.1													7615.6									
TOTAL CYANOPHYTA	250.0	297,007.1	83.3	83.3	0.0	166.7	666.7	166.6	555.5	66.7	575.0	333.3	312.5	400.0	10,365.6	400.0								
EUGLENOPHYTA (euglenoids)																								
<i>Euglena</i> sp. 1																7615.6								
<i>Euglena</i> spp.																								
TOTAL EUGLENOPHYTA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,002.6	0.0	0.0	0.0	7,615.6	0.0								
CRYPTOPHYTA (cryptophytes)																								
<i>Chroomonas minuta</i>		228467.0									7615.6													
Cryptophyte spp.	437895.1		285583.7	228467.0	76155.7	152311.3	400256.1	466965.5	360470.1	190389.2	280179.3	245490.4	276064.3	251313.7	182773.6	182773.6								
TOTAL CRYPTOPHYTA	437,895.1	228,467.0	285,583.7	228,467.0	76,155.7	152,311.3	400,256.1	466,965.5	360,470.1	198,004.8	280,179.3	245,490.4	276,064.3	251,313.7	182,773.6	182,773.6								
XANTHOPHYTA (xanthophytes)																								
<i>Olisthodiscus</i> sp.		22846.7																						
<i>Baliosphaera</i> sp. 1					66.7				66.7		25.0			104.2		200.0								
TOTAL XANTHOPHYTA	0.0	22,846.7	0.0	0.0	66.7	0.0	0.0	0.0	66.7	0.0	25.0	0.0	104.2	0.0	16.7	200.0								
CHRYSOPHYCEAE (yellow-brown algae and silicoflagellates)																								
Chrysophyte sp. 2							26683.7					4002.6												
DICTYOCHELES (silicoflagellates)																								
<i>Dictyocha</i> sp.								13341.9			8005.1	10673.5			22846.7									
TOTAL CHRYSOPHYCEAE	0.0	0.0	0.0	0.0	0.0	0.0	26,683.7	13,341.9	0.0	0.0	12,007.7	10,673.5	0.0	22,846.7	0.0	0.0								
HAPTOPHYCEAE (haptophytes including coccolithophores)																								
Haptophyte sp. 1	38077.8	91386.8	95194.6	19038.9	45693.4	133272.4			25385.2	22846.7				28558.4	22846.7	114233.5								
TOTAL HAPTOPHYCEAE	38,077.8	91,386.8	95,194.6	19,038.9	45,693.4	133,272.4	0.0	0.0	25,385.2	22,846.7	0.0	0.0		28,558.4	22,846.7	0.0 114,233.5								
PRASINOPHYCEAE (prasinophytes)																								
Prasinophyte sp. 1	19038.9	45693.4	57116.7	114233.5			76155.6	66709.3	106735.0	319853.8	53309.0	104066.6		152311.3	91386.8	205620.3 22846.7								
Unidentified prasinophytes																								
TOTAL PRASINOPHYCEAE	38,077.8	45,693.4	57,116.7	114,233.5		60924.5	76,155.6	66,709.3	106,735.0	319,853.8	53,309.0	104,066.6	0.0	152,311.3	91,386.8	205,620.3 22,846.7								

TABLE H-144
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
15 OCTOBER 1976

Species	Station and depth ^b															
	S	11	8	S	12	8	S	0	8	S	1	8	S	2	8	S
UNIDENTIFIED PHYTOFLAGELLATES																
Phytoflagellate sp. 4		22846.7			19038.9						5077.0				19038.9	
Phytoflagellate sp. 5																7615.6
Unidentified																
phytoflagellates >10μ	19038.9									5077.0			4002.6			7615.6
Unidentified																
phytoflagellates <10μ	1751580.2	2947224.1	2551214.7	1656385.6	1233721.7	1865813.7	2441562.6	2641690.7	1624654.1	1134719.3	1344850.7	1857188.6	1104257.1	1941969.4	1111872.6	2033356.2
TOTAL PHYTOFLAGELLATES	1,770.	2,970.	2,551.	1,675.	1,233.	1,865.	2,441.	2,641.	1,634.	1,134.	1,348.	1,857.	1,123.	1,941.	1,127.	2,033.
	619.1	070.8	214.7	424.5	721.7	813.7	562.6	690.7	808.1	719.3	863.3	188.6	296.0	969.4	103.8	356.2
OTHERS																
Unidentified auxospores																
Unidentified 3					15231.1	76155.6		26683.7		7615.6						
Unidentified coccoid 2						38077.8					76048.7				7615.6	
Unidentified coccoid 3		22846.7	38077.8			114233.5						256163.9	28558.4	114233.5		342700.5
TOTAL OTHERS	0.0	22,846.7	38,077.8	0.0	15,231.1	228,466.9	0.0	106735.0	30462.3	30462.3	76,048.7	256,163.9	28,558.4	114,233.5	7,615.6	342,700.5
TOTAL PHYTOPLANKTON	4,668.	9,844.	6,515.	4,375.	4,134.	8,482.	7,816.	8,415.	4,095.	3,064.	3,089.	5,868.	2,813.	7,346.	2,854.	6,481.
	494.9	034.0	686.4	122.3	739.2	983.2	403.2	712.1	941.1	624.6	170.2	249.4	136.2	490.5	422.4	815.9

^a Values are mean of three replicates.

^b S = Surface; B = Bottom.

TABLE H-145

PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
10 NOVEMBER 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYTA (diatoms)																
<i>Amphiprora</i> spp.															7615.6	
<i>Amphora</i> spp.																
<i>Asterionella japonica</i>							38077.8								7615.6	
<i>Bellerophonella malleus</i> var.?								33.3					88.9			
<i>Biddulphia alternans</i>	38077.8						15231.1	7615.6					5077.0	7615.6		
<i>B. curvata</i>	19038.9	45693.4	57116.7			66709.4	15231.1	30462.3	4002.6	10673.5			5077.0		68540.1	7615.5
<i>B. dubia</i>																9519.5
<i>B. longicurvata</i>	38077.8															9519.5
<i>B. mobilienis</i>							13341.9									
<i>B. rhombus</i>		15231.1							20012.8							
<i>Cerataulina bergonii</i>	416.7		250.0	400.0									10154.1			
<i>Cerataulina</i> sp. 1							66.7	1100.0	475.0	1466.7	216.7			300.0	1000.0	200.0
<i>Chaetoceros eibonii</i>							100.0									
<i>Chaetoceros</i> spp.							13341.9	33.0								7615.6
<i>Climacodius frauenfeldianus</i>								22846.7	16010.3	5336.7	16.7		25385.2			
<i>Coscinodiscus lineatus</i>	15231.1	19038.9						22846.7			33.3		3807.8			
<i>C. radiatus</i>	1266.7	541.7	566.7	500.0	1250.0	5083.3	800.0	1666.7	700.0	933.3	833.3	1133.3	833.3	2500.0	683.3	9519.5
<i>Coscinodiscus</i> spp.			15231.1							5336.7						1833.3
<i>Cyclotella</i> sp. 2																19038.9
<i>Cyclotella</i> spp.	19038.9	15231.1						7615.6	22846.7	4002.6	5336.7		10154.1	45693.4	22846.7	
<i>Cymatoseira belgica</i>	19038.9				24015.4	26683.7					181449.4			7615.6	22846.7	38077.8
<i>Cymbella</i> spp.						13341.9										
<i>Diploneis interrupta</i>			15231.1			8005.1				4002.6					22846.7	
<i>Diploneis</i> sp.	30462.3	19038.9	15231.1			24015.4	53367.5	22846.7		12007.7	21347.0	3807.8	15231.1	7615.6	22846.7	3807.8
<i>Fragilaria inflata</i>									15231.1							28558.4
<i>Fragilaria?</i> sp.			45693.4									19038.9		83771.2		
<i>Grammatophora marina</i>							7615.6									
<i>Gulnardia flaccida</i>									25.0							
<i>Gyrosigma</i> spp.		41.7														
<i>Lithodesmium undulatum</i>							400.0	233.3		133.3						41.7
<i>Melosira sulcata</i>							15231.1	30462.3	28017.9				15231.1			
<i>Melosira</i> sp. 1				38077.8												
<i>Navicula halophila</i> v. <i>halophila</i>			19038.9													
<i>N. lyra</i> v. <i>lyra</i>												16.7				
<i>N. membranacea</i>																41.7
<i>N. varriksae</i> ?															16.7	
<i>Navicula</i> sp. 6						8005.1	13341.9			5336.7				22846.7		
<i>Nitzschia acicularis</i> v. <i>closterioides</i>	15231.1	57116.7	15231.1	19038.9		8005.1										
<i>N. closterium</i>	91386.8	285583.7	121849.1	228467.0	40025.6	106735.0	53309.0	76155.7	32020.5	85388.0	38077.8	25385.2	53309.0	91386.8	19038.9	57116.7
<i>N. constricta</i>		19038.9				13341.9	22846.7	22846.7	8005.1	10673.5	3807.8		15231.1	3807.8		9519.5
<i>N. delicatissima</i>	30462.3	171350.2	15231.1	57116.7	88056.3	200128.1	30462.3	15231.1	12007.7	74714.5	3807.8	20308.2		22846.7	26654.5	19038.9
<i>N. longissima</i>		19038.9				13341.9	15231.1	7615.6								
<i>N. paradoxa</i>	1866.7	4250.0	3266.7	1416.7	2250.0	5916.7	5266.7	2400.0	1700.0	4233.3	1833.3	1444.5	1616.7	7000.0	933.3	4625.0
<i>N. sigma</i>				41.7												
<i>N. sigmoidea</i>								33.3								
<i>Nitzschia</i> sp. 1						50.0				66.7			22.2			
<i>Nitzschia</i> sp. 2		41.7												16.7		
<i>Pinnularia</i> sp. 2				19038.9											16.7	
<i>Rhaphoneis strobilla</i>	15231.1	361739.4	15231.1	19038.9	40025.6	66709.4	60924.5	15231.1	8005.1	32020.5	15231.1	5077.0	22846.7		22846.7	28558.4
<i>Rhizosolenia alata</i>								66.7				44.4				
<i>R. calcar avis</i>							33.3		25.0		16.7			100.0		

TABLE H-145
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
10 NOVEMBER 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
BACILLARIOPHYTA (continued)																
<i>Rhizosolenia imbricata</i>																
<i>R. imbricata</i> v. <i>shrubsolai</i>																
<i>R. robusta</i>																
<i>R. setigera</i>			33.3		50.0		83.3		100.0		100.0		75.0		100.0	
<i>Skeletonema costatum</i>	228467.0	666362.0	319853.8	723478.8	1873198.8	2214750.7	852943.4	1782042.5	948607.7	960614.8	171350.2	162465.4	472165.1	159926.9	426471.7	723478.8
<i>Streptotheca thomensis</i>					1400.0		1666.7		433.3		175.0		2766.7		400.0	
<i>Thalassionema nitsschioides</i>					88056.3		80051.2		30462.3		15231.1		60038.4		19038.9	
<i>Thalassiostris decipiens</i>			30462.3													
<i>Thalassiostris</i> sp. 1	15231.1	114233.5	45693.4	342700.5	24015.4	186786.2	53309.0	76155.7	36023.1	37357.2		25385.2	30462.3	22846.7	11423.4	66636.2
<i>Thalassiothrix</i>																
<i>Thalassiothrix frauenfeldii</i>	66.7		100.0	125.0	200.0		733.3	533.3	425.0	366.7	483.3		100.0	600.0	550.0	100.0
<i>T. mediterranea</i> v. <i>pacifica</i>	366.7	250.0	333.3	458.3	1050.0	1916.7	1500.0	1466.7	575.0	933.3	350.0	488.9	900.0	1100.0	550.0	958.3
<i>Tropidoneis</i> sp. 2												5077.0	7615.6			
Unidentified centric diatoms <20μ	76155.7	114233.5	121849.1	342700.5	248158.8	747144.8	121849.1	121849.1	100064.1	192123.0	49501.1	40616.4	53309.0	45693.4	22846.7	57116.8
Unidentified centric diatoms >20μ														15231.1	22846.7	
Unidentified pennate diatom sp. 1		76155.7	76155.7				198004.7				7615.6	50770.4		114233.5		
Unidentified pennate diatoms <20μ	228467.0	1351763.0	228467.0	666362.0	280179.3	760486.7	144695.8	396009.5	192123.0	341551.9	60924.5	126926.1	243698.1	297007.1	125656.8	304622.7
Unidentified pennate diatoms >20μ	15231.1	38077.8	30462.3	95194.6	56035.9	106734.9	45693.4	45693.4	20012.8	26683.7	7615.6	20308.2	15231.1	22846.7	15231.1	
Unidentified pennate diatoms >200μ							83.3	66.7	33.3		133.3	33.3				
Unidentified sigmoid diatom sp. 1		41.7	66.7		150.0	250.0			200.0	125.0	100.0	50.0	22.2		300.0	16.7
Unidentified sigmoid diatoms >200μ			33.3			83.3										
TOTAL BACILLARIOPHYTA	765,123.4	3,451,626.9	1,192,428.3	2,630,161.9	2,816,598.1	4,724,764.2	1,563,075.6	2,977,970.9	1,509,339.0	2,103,505.1	415,473.8	622,821.3	1,115,806.3	1,018,354.8	715,055.5	1,427,357.9
PYRRHOPHYTA (dinoflagellates)																
<i>Ceratium furca</i> v. <i>eugrammum</i>			33.3					466.7	125.0	33.3	33.3		33.3			166.7
<i>C. furca</i>											33.3		33.3			
<i>C. teres</i>												244.5				
<i>C. tripos</i>					50.0											
<i>Ceratium</i> sp. 3	733.3	125.0			200.0	83.3	166.7	33.3	25.0		66.7		33.3		50.0	
<i>Gymnodinium aureantium</i>	15231.1	19038.9		19038.9		13341.9	7615.6	7615.6		5336.7					3807.8	
<i>G. simplex</i> ?								7615.6								
<i>Gymnodinium</i> spp.	19038.9	15231.1	38077.8				7615.6	22846.7		5336.7	7615.5	10154.1	7615.6	22846.7		9519.5
<i>Gymnodinium</i> sp. 1	19038.9	15231.1			8005.1			22846.7		5336.7		5077.0	7615.6			
<i>Peridinium trochoideum</i>									4002.6			5077.0				
<i>Peridinium</i> spp.												5077.0				
<i>Prorocentrum micans</i>			15231.1						4002.6				7615.6	22846.7		
<i>Prorocentrum</i> spp.								7615.6		5336.7					3807.8	
Unidentified dinoflagellates				19038.9		40025.6	7615.6		12007.7		3807.8	5077.0	22846.7		11423.3	9519.5
TOTAL PYRRHOPHYTA	15,964.4	57,241.7	45,726.6	76,155.6	8,255.1	53,450.8	23,013.5	69,040.2	20,162.9	26,716.8	11,556.6	30,706.6	45,793.4	45,693.4	19,088.9	19,205.7

H-330

TABLE H-145
(continued)
PHYTOPLANKTON ABUNDANCE AND COMPOSITION IN CELLS PER LITER^a
ST. LUCIE PLANT
10 NOVEMBER 1976

Species	Station and depth ^b															
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
CHLOROPHYTA (green algae)																
<i>Chlorococcoides</i> sp.					16010.2		80051.2	7615.6	7615.6				3807.8	5077.0		9519.5
<i>Chlorophyte</i> sp. 1	30462.3	19038.9						22846.7			40025.6	32020.5		10154.1		
<i>Polyedriopsis quadrispina</i>									15231.1							
TOTAL CHLOROPHYTA	30,462.3	19,038.9	0.0	0.0	16,010.2	80,051.2	30,462.3	22,846.7	40,025.6	32,020.5	3,807.8	15,231.1	7,615.6	0.0	0.0	9,519.5
CYANOPHYTA (blue-green algae)																
<i>Anabaena</i> spp.		41.7			300.0			33.3	233.3	425.0	600.0	100.0	177.8	183.3		83.3
<i>Oscillatoria</i> spp.	66.7	250.0			3100.0	2833.3		400.0		3500.0	1400.0	1716.7	2111.1	9633.3		6550.0
<i>Lyngbya</i> spp.					250.0											1916.7
TOTAL CYANOPHYTA	66.7	291.7	0.0	0.0	3,650.0	2,833.3	433.3	233.3	3,925.0	2,000.0	1,816.7	2,288.9	9,816.6	0.0	6,633.3	2,333.4
CRYPTOPHYTA (cryptophytes)																
<i>Chroomonas amphioxeta</i>									7615.6				3807.8	5077.0	7615.5	
<i>C. minuta</i>													3807.8			
<i>Cryptophyte</i> spp.	91386.8	437895.1	106617.9	456934.0	368235.7	653751.8	38077.8	182773.6	224143.4	224143.5	72347.9	20308.2	129464.6	45693.4	106617.9	76155.7
TOTAL CRYPTOPHYTA	91,386.8	437,895.1	106,617.9	456,934.0	368,235.7	653,751.8	38,077.8	190,389.2	224,143.4	224,143.5	79,963.5	25,385.2	137,080.2	45,693.4	106,617.9	76,155.7
XANTHOPHYTA (xanthophytes)																
<i>Olisthodiscus</i> sp.													5077.0			
TOTAL XANTHOPHYTA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5077.0	0.0	0.0	0.0
CHRYSOPHYCEAE (yellow-brown algae and silicoflagellates)																
<i>Chrysophyte</i> sp. 1								7615.6			5336.7	3807.8				
<i>Chrysophyte</i> sp. 2												3807.8				
DICTYOCHELES (silicoflagellates)																
<i>Dictyocha</i> sp.					16010.3				15231.1	4002.6	5336.7					9519.5
TOTAL CHRYSOPHYCEAE	0.0	0.0	0.0	0.0	16,010.3	0.0	7,615.6	15,231.1	4,002.6	10,673.4	7,615.6	0.0	0.0	0.0	0.0	9,519.5
HAPTOPHYCEAE (haptophytes including coccolithophores)																
<i>Haptophyte</i> sp. 1					38077.8			7615.6	30462.3		5336.7		5077.0	7615.6		
TOTAL HAPTOPHYCEAE	0.0	0.0	0.0		38,077.8	0.0	0.0	7,615.6	30,462.3	0.0	5,336.7		5,077.0	7,615.6		
PRASINOPHYCEAE (prasinophytes)																
<i>Prasinophyte</i> sp. 1		209428.1		133272.4	64041.0	53367.5	45693.4	106617.9	52033.3	42694.0	68540.1	20308.2	30462.3	45693.4	15231.1	19038.9
<i>Tetraselmis</i> sp. 1							7615.6									
TOTAL PRASINOPHYCEAE		209,428.1		133,272.4	64,041.0	53,367.5	53,309.0	106,617.9	52,033.3	42,694.0	68,540.1	20,308.2	30,462.3	45,693.4	15,231.1	19,038.9
UNIDENTIFIED PHYTOFLAGELLATES																
<i>Phytoflagellate</i> sp. 5									15231.1							7615.6
Unidentified phytoflagellates >10μ					16010.2	13341.9					5336.7		5077.0	7615.6		3807.8
Unidentified phytoflagellates <10μ	913867.9	1903891.6	1233721.7	2703526.0	1240794.1	1987938.9	312238.2	571167.5	644412.4	880563.6	475972.9	436625.8	662554.3	891021.3	407432.8	1037620.9
TOTAL UNIDENTIFIED PHYTOFLAGELLATES	913,867.9	1,903,891.6	1,233,721.7	2,703,526.0	1,256,804.3	2,001,878.8	312,238.2	586,398.6	644,412.4	880,563.6	475,972.9	436,625.8	662,554.3	891,021.3	407,432.8	1,037,620.9
OTHERS																
Unidentified coccoid 2						160102.5			36023.1		7615.5					
Unidentified coccoid 3		76155.6			48030.7		7615.6	15231.1		80051.2	7615.6	5077.0	7615.6		11423.3	
TOTAL OTHERS	0.0	76,155.6	0.0	0.0	48,030.7	160,102.5	7,615.6	15,231.1	36,023.1	80,051.2	15,231.1	5,077.0	7,615.6	0.0	11,423.3	0.0
TOTAL PHYTOPLANKTON	1,816,871.5	6,155,569.6	2,578,494.5	6,038,127.7	4,597,635.5	7,729,602.0	2,043,456.5	4,014,421.3	2,534,066.7	3,413,041.5	1,079,978.1	1,173,675.1	2,031,975.5	2,046,456.3	1,292,906.2	2,600,751.5

^a Values are mean of three replicates.

^b S = Surface; B = Bottom.

TABLE H-146

WATER TEMPERATURE (°C) RECORDED DURING THE PHYTOPLANKTON STUDY
ST. LUCIE PLANT
MARCH-DECEMBER 1976

Date	Station and depth ^a															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
26 MAR	22.0	21.5	22.2	22.5	22.0	22.0	22.2	22.1	22.2	22.3	22.2	22.1	22.4	22.2	22.3	22.5
21 APR	24.9	24.2	26.1	25.5	23.8	23.8	24.0	23.8	24.2	23.8	24.5	24.0	25.0	24.0	24.8	24.0
12 MAY	25.0	24.8	28.3	28.5	22.9	22.9	23.8	23.4	23.5	23.2	23.5	23.5	23.7	23.7	24.6	23.9
8 JUN	26.5	26.3	35.3	35.4	22.9	22.9	28.2	27.7	27.9	27.6	28.1	27.7	28.3	28.0	27.3	27.2
14 JUL	25.0	23.0	26.0	25.5	23.1	23.0	23.0	22.6	24.0	23.3	25.0	24.0	23.7	23.3	23.0	22.7
11 AUG	27.2	26.9	27.5	27.0	27.5	27.4	28.0	27.7	27.9	26.5	27.5	27.2	28.4	26.7	27.6	27.4
14 SEP	27.5	28.3	29.3	29.0	27.8	27.8	28.0	28.0	28.5	28.4	28.7	28.5	27.9	29.2	28.5	28.2
15 OCT	24.4	24.5	24.8	24.8	24.0	26.0	26.1	27.0	27.4	27.5	27.0	27.1	27.5	28.0	26.5	26.2
10 NOV	20.0	20.0	20.6	20.2	20.0	20.2	20.1	20.1	20.2	20.5	21.4	21.3	20.5	20.4	21.2	20.7
13 DEC	24.5	23.6	28.6	29.2	23.8	23.8	23.7	23.7	24.2	24.2	24.4	24.4	24.2	24.3	24.5	24.3

^a S = Surface; B = Bottom.

H-332

TABLE H-147

SALINITY (‰) RECORDED DURING THE PHYTOPLANKTON STUDY
ST. LUCIE PLANT
MARCH-NOVEMBER 1976

Date	Station and depth ^a															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
26 MAR	35.8	35.0	35.8	35.5	34.0	33.9	33.4	34.2	33.4	33.5	34.6	33.7	33.5	33.7	33.5	33.4
21 APR	34.2	34.2	34.4	34.2	34.2	34.2	34.2	34.0	33.9	34.0	34.5	34.2	34.0	34.1	32.5	34.2
12 MAY	33.8	34.2	34.4	34.4	33.8	34.3	35.0	35.2	34.9	35.2	34.9	35.0	34.2	34.4	34.3	34.8
8 JUN	30.0	30.0	30.9	29.3	33.8	34.3	34.5	36.0	35.5	35.5	36.0	36.0	36.0	36.0	34.5	35.5
14 JUL	35.2	35.0	34.8	35.0	35.0	34.9	35.3	35.3	35.2	35.3	34.9	34.9	35.0	35.3	35.0	35.1
11 AUG	33.4	34.8	34.5	34.5	34.8	35.0	35.0	35.0	35.0	34.8	35.0	35.0	34.8	35.0	35.0	35.0
14 SEP	30.2	34.0	34.0	34.0	34.5	35.0	34.0	34.5	34.5	34.5	34.5	35.0	34.5	35.0	34.0	34.5
15 OCT	35.0	35.0	35.0	35.0	35.2	35.0	35.0	34.5	35.0	35.2	35.0	35.2	35.0	35.5	35.0	35.0
10 NOV	35.0	35.5	35.0	35.0	35.5	35.5	35.5	35.5	35.5	35.5	36.1	35.0	35.5	35.5	35.5	35.5

^a S = Surface; B = Bottom.

TABLE H-148
DISSOLVED OXYGEN (ppm) RECORDED DURING THE PHYTOPLANKTON STUDY
ST. LUCIE PLANT
MARCH-NOVEMBER 1976

Date	Station and depth ^a															
	11		12		0		1		2		3		4		5	
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
26 MAR	6.9	6.6	6.8	6.8	6.4	6.4	6.4	6.4	6.0	6.0	6.4	6.2	6.2	5.9	6.1	6.0
21 APR	5.8	5.2	5.4	5.8	6.0	6.0	6.0	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.2	6.1
12 MAY	6.1	6.2	6.1	5.9	6.3	6.2	6.2	6.2	6.4	5.9	6.4	6.4	6.3	6.4	6.3	6.3
8 JUN	5.4	5.0	4.9	4.7	6.3	6.2	5.2	5.5	6.1	5.3	5.6	5.6	5.8	5.2	5.7	5.1
14 JUL	6.0	4.5	5.1	5.2	6.4	6.1	6.5	6.2	6.5	6.2	6.8	6.3	6.3	6.1	6.7	6.8
11 AUG	6.0	4.8	5.6	5.2	5.7	5.8	5.8	6.3	5.9	5.8	6.2	6.3	5.1	6.1	5.6	4.9
14 SEP	6.4	4.8	6.5	-	5.3	5.4	5.7	5.1	5.3	5.1	5.4	5.1	5.4	5.1	5.3	5.4
15 OCT	7.5	7.2	6.8	6.7	7.6	7.0	7.1	7.2	7.5	7.3	7.3	6.8	7.4	7.1	7.4	7.0
10 NOV	6.3	6.0	6.8	6.8	5.8	5.8	5.8	5.6	5.6	5.5	5.7	5.5	5.6	5.5	5.8	5.6

^a S = Surface; B = Bottom.

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TABLE H-149

CURRENT DIRECTION AND VELOCITY (cm/sec) DURING OFFSHORE PHYTOPLANKTON COLLECTIONS
ST. LUCIE PLANT
MARCH-NOVEMBER 1976

Date	Station					
	0	1	2	3	4	5
26 MAR	<u>N</u> 21.0	<u>N</u> 27.0	<u>N</u> 25.5	<u>N</u> 28.5	<u>N</u> 36.0	<u>N</u> NA ^a
21 APR	<u>N</u> NA ^a	<u>N</u> NA ^a	<u>N</u> NA ^a	<u>N</u> NA ^a	<u>N</u> NA ^a	<u>N</u> NA ^a
12 MAY	<u>N</u> 17.0	<u>E</u> 22.0	<u>N</u> 19.0	<u>N</u> 19.0	<u>N</u> 22.5	<u>N</u> 18.0
8 JUN	<u>S</u> 18.5	<u>S</u> 23.0	<u>S</u> 29.0	<u>S</u> 19.0	<u>S</u> 31.5	<u>S</u> 30.5
14 JUL	<u>N</u> 29.5	<u>NE</u> 20.0	<u>N</u> 30.0	<u>N</u> 42.0	<u>N</u> 34.0	<u>N</u> 36.5
11 AUG	<u>S</u> 16.5	<u>W</u> Negl. ^b	<u>S</u> Negl. ^b	<u>N</u> 17.0	<u>S</u> 17.5	<u>NW</u> 16.5
14 SEP	<u>NW</u> NA ^a	<u>NW</u> NA ^a	<u>SE</u> NA ^a	<u>E</u> NA ^a	<u>SE</u> NA ^a	<u>E</u> NA ^a
15 OCT	<u>NE</u> 25.0	<u>Var</u> ^c 22.0	<u>NA</u> ^a NA ^a	<u>NE</u> 28.6	<u>N</u> 26.8	<u>N</u> 24.0
10 NOV	<u>NW</u> 18.5	<u>Var</u> ^c 18.5	<u>NE</u> 26.0	<u>NNE</u> 18.0	<u>NNE</u> 21.0	<u>N</u> 20.5

^a Data not available.

^b Negligible.

^c Variable.

TABLE H-150

WIND DIRECTION AND VELOCITY (KNOTS) DURING PHYTOPLANKTON COLLECTIONS
ST. LUCIE PLANT
MARCH-NOVEMBER 1976

Date	Station							
	11	12	0	1	2	3	4	5
26 MAR	<u>ESE</u> 5-10	<u>ESE</u> 5-10	<u>SE</u> 10	<u>ESE</u> 10	<u>ESE</u> 5-10	<u>ESE</u> 5-10	<u>ESE</u> 5-10	<u>ESE</u> 5-10
21 APR	<u>SSW</u> 5-7	<u>SSW</u> 5-7	<u>NA^a</u> NA ^a	<u>ESE</u> <5	<u>ESE</u> <5	<u>SE</u> <5	<u>ESE</u> 5-7	<u>ESE</u> 5-7
12 MAY	<u>NW</u> 5	<u>NW</u> 4-6	<u>NW</u> 4-6	<u>NW</u> 4-6	<u>NW</u> 4-6	<u>NW</u> 4-6	<u>NW</u> 4-6	<u>NW</u> 4-6
8 JUN	<u>NE</u> 5-7	<u>NE</u> 5-7	<u>N</u> 3-5	<u>N</u> 3-5	<u>N</u> 3-5	<u>N</u> 3-5	<u>N</u> 3-5	<u>N</u> 3-5
14 JUL	<u>W</u> 5	<u>W</u> 5	<u>WSW</u> 5-7	<u>WSW</u> 6-8	<u>WSW</u> 6-8	<u>WSW</u> 6-8	<u>WSW</u> 8-10	<u>WSW</u> 3-5
11 AUG	<u>SE</u> 0-5	<u>E</u> 0-5	<u>SE</u> 5-7	<u>E</u> 2-5	<u>ESE</u> 2-4	<u>ESE</u> 2-4	<u>SE</u> 3-6	<u>SE</u> 5-7
14 SEP	<u>W</u> <5	<u>W</u> <5	<u>SE</u> 0-5	<u>SW</u> 5-7	<u>S</u> 7-10	<u>S</u> 10	<u>SE</u> 7	<u>SW</u> 8-10
15 OCT	<u>NA^a</u> NA ^a	<u>NA^a</u> NA ^a	<u>NE</u> 3-5	<u>NE</u> 3-5	<u>NE</u> 3-5	<u>NE</u> 3-5	<u>NE</u> 5	<u>NE</u> 3-5
10 NOV	<u>NNW</u> 4-7	<u>NNW</u> 4-7	<u>N</u> 3-5	<u>N</u> 3-5	<u>NE</u> 3-5	<u>NE</u> 2-5	<u>NA^a</u> NA ^a	<u>N</u> 2-5

^a Data not available.

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TABLE H-151
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
26 MARCH 1976

Taxon	Station and depth ^b															
	11	12	0		1		2		3		4		5			
	0	0	S	B	S	B	S	B	S	B	S	B	S	B		
PROTOZOA																
foraminifera		0.4		2.3	40.0	1.7	32.7	1.2	1.2	2.6		19.5		18.0		
COELENTERATA																
hydrozoa																
hydromedusae																
Obelia sp.							8.2		15.6	1.3						
unidentified		1.1		2.3		3.5				2.6				9.0		
siphonophora									2.4	1.3		6.5				
NEMATODA	0.9															
MOLLUSCA																
gastropoda																
larvae	1.4			9.2	28.6	3.5	73.5	12.0	32.4	21.0		223.9	423.9	1461.9		
echinospira larvae										1.3						
pelecypoda																
larvae				4.6	22.9		16.3		2.4			68.1	8.9	18.1		
POLYCHAETA																
intermediates																
larvae	1.4								1.2	2.6		3.2	9.0	9.0		
ARTHROPODA																
crustacea																
nauplii	10.8		3.4				8.2		4.8	2.6		32.5				
unidentified developmental stage														27.1		
cladocera																
Evadne sp.									2.4							
unidentified											5.2	6.5				
ostracoda																
Conchoecia elegans	0.9		2.6	2.3	165.5	6.9	40.8	21.5	31.2	137.5		133.0	343.4	758.0		
copepoda ^c																
calanoida	101.5	9.2	18.0	363.7	1130.2	90.1	604.2	201.9	845.9	1146.6	1326.7	1437.4	2215.9	3573.6		
Acartia negligens			(25.0)	(10.0)	(20.0)		(10.0)				(30.0)					
A. spinata			(25.0)	(20.0)			(20.0)									
Calanopia sp.		(20.0)	(13.0)						(10.0)	(10.0)				(10.0)		
C. americana					(10.0)									(10.0)		
Labidocera aestiva										(30.0)						
Mormonilla sp.												(20.0)				
Paracalanus aculeatus	(80.0)	(20.0)	(13.0)	(70.0)	(60.0)	(60.0)	(50.0)	(88.0)	(30.0)	(40.0)	(60.0)	(60.0)	(60.0)	(30.0)		
Temora turbinata	(10.0)	(20.0)			(10.0)	(30.0)	(20.0)		(50.0)			(10.0)	(30.0)			
Undinula vulgaris												(10.0)				
unidentified	(10.0)	(40.0)	(25.0)			(10.0)		(13.0)	(10.0)	(20.0)	(10.0)		(10.0)	(50.0)		

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TABLE H-151
(continued)
QUALITATIVE AND QUANTITATIVE ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
26 MARCH 1976

Taxon	Station and depth ^b													
	11 0	12 0	0 5	8 5	1 8	2 5	3 8	4 5	5 8	6 5	7 8	8 5	9 8	10 5
ARTHROPODA														
crustacea														
copepoda (continued)														
cyclopoidae ^e	9.9 (40.0)	4.6		53.0	256.9	10.4	236.8	8.4	117.7 (10.0)	35.3	65.7	61.7	66.2	63.2
<i>Corycaeus</i> sp.	(10.0)				(10.0)				(10.0)	(10.0)		(11.0)	(33.0)	
<i>C. (Agetus) typicus</i>	(20.0)				(10.0)	(25.0)			(10.0)	(10.0)	(20.0)			
<i>C. (Corycaeus) speciosus</i>				(50.0)	(50.0)	(25.0)	(67.0)		(40.0)	(40.0)	(10.0)	(11.0)	(33.0)	
<i>C. (Onychocorycaeus) latus</i>									(10.0)					
<i>Farranula carinata</i>	(10.0)					(25.0)	(17.0)		(20.0)	(10.0)	(10.0)	(33.0)		
<i>F. gracilis</i>	(20.0)			(50.0)	(30.0)	(25.0)	(17.0)	(100.0)	(10.0)	(40.0)	(60.0)	(44.0)	(33.0)	
<i>Oncaea mediterranea</i>		1.1		2.3	5.7				1.2		1.7	6.5	7.2	9.0
harpacticoidae ^e		(100.0)		(100.0)					(100.0)		(100.0)	(100.0)	(100.0)	(100.0)
unidentified														
cirripedia														
cypris larvae	5.2	1.4		6.9	79.9	5.2		1.2	6.0	2.6		3.2	21.5	54.1
nauplii (barnacle)	1313.3	447.6	0.9	9.2	17.1		40.8	2.4		5.3		22.7	1.8	9.0
mysidacea					11.4					5.3		3.2	5.4	54.1
cumacea										2.6	3.5		9.0	
isopoda								1.2						9.0
amphipoda														
gammaridea		0.7			5.7		8.2						1.8	18.1
hyperiidea										1.3				
caprellida		1.4												
decapoda														
zoeae									1.2					
penaeidea ^f														
zoeae	7.5	1.8		4.6	11.4	1.7		1.2	16.8	2.6	41.5	3.2	12.5	18.1
sergestidae														
<i>Lucifer faxoni</i>			2.6	23.0	125.6		8.2	4.8	1.2	3.9		6.5	32.2	
caridea														
zoeae	5.6	0.7		2.3				1.2	9.6	2.6	17.3	6.5	12.5	18.0
anomura														
larvae										73.3				
zoeae ^g	10.3			11.5	97.1	1.7	73.5	3.6	253.5	35.3		71.4	75.1	27.1
brachyura														
immatures					34.2									
megalops					5.7								1.8	
zoeae	11.3	5.6		4.6	11.4		40.8	12.0	75.7	30.1		87.6	157.4	180.5

TABLE H-151
(continued)
QUALITATIVE AND QUANTITATIVE ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
26 MARCH 1976

Taxon	Station and depth ^b													
	11 ø	12 ø	0 Sc	B	1 S	B	2 S ^d	B	3 S	B	4 S	B	5 S	B
CHAETOGNATHA														
<i>Sagitta</i> sp.			0.9	2.3	11.4	1.7		1.2	2.4	2.6		3.2	34.0	
<i>S. enflata</i>									3.6	1.3	1.7	6.5	8.9	63.2
<i>S. frederici</i>					5.7				1.2	3.9		3.2	7.2	36.1
<i>S. helena</i>					5.7							16.2	14.3	
<i>S. hispidus</i>				2.3				1.2		2.6			5.4	
<i>S. serratodentata</i>											1.7	3.2		
unidentified									10.8			3.2		
ECHINODERMATA														
ophiopluteus larvae	0.5													
CHORDATA														
urochordata														
appendicularia														
<i>Oikopleura</i> sp.	46.5							1.2	30.0	28.8	3.5	35.7		
larvae	4.7													
fish														
eggs	1.4				5.7	1.7								
larvae				23.0	22.8	3.5	16.3		10.8	1.3			1.8	
EGGS	1.6	4.9	2.6	29.9	137.0	6.9	302.1	6.0	103.3	73.3		126.6	51.9	54.1
TOTAL	1534.7	480.5	31.0	559.3	2237.6	138.5	1510.6	282.2	1584.5	1633.4	1470.2	2400.9	3529.0	6488.3

^a Values expressed are undamaged zooplankters per cubic meter and represent the mean of three subsamples.

^b ø = Oblique; S = Surface; B = Bottom.

^c Sample not preserved immediately.

^d Scyphozoan medusa removed from sample before analysis.

^e Values in parentheses represent the relative percentage of copepod species sampled at random and are not to be construed as number per cubic meter.

^f Includes penaeidae and sergestidae zoeae.

^g Includes both anomuran zoeae and sergestidae protozoeae.

TABLE H-152
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
4 APRIL 1976

Taxon	Station and depth ^b													
	11	12	0	1	2	3	4	5						
	0	0	S	Bc	S	B	S	Bc	S	B	S	B	S	Bc
PROTOZOA														
foraminifera		2.5												
radiolaria														
COELENTERATA														
hydrozoa														
hydromedusae														
<i>Obelia</i> sp.			6.7	5.5	8.1	1.2	8.4		6.7		2.4	2.7	25.7	2.6
unidentified							2.3		1.1					
siphonophora							0.8		1.1				0.9	
MOLLUSCA														
gastropoda														
larvae	1.9	0.6	25.3	181.7	44.5	392.8	9.1	81.6	31.4	2989.5	8.0	250.0	15.4	98.7
thecosomata (pteropoda)														
<i>Clio</i> sp.										14.5				
<i>Cresis</i> sp.										19.4				5.2
<i>C. acicula</i>														2.6
pelecypoda														
larvae		0.6	11.2	19.3	38.4	10.0	3.8	0.9	1.1	72.7	0.8	10.8	1.7	
POLYCHAETA														
intermediates					2.0									
larvae	1.2		3.7		4.0		2.3		6.7	24.2		21.5	1.7	
ARTHROPODA														
crustacea														
nauplii		0.6	6.0	35.8	4.1	2.5	3.8	9.2	10.1	4.8	3.2	75.3	5.1	7.8
unidentified developmental stages	0.6													
cladocera														
unidentified							0.8							
ostracoda														
<i>Conchoecia elegans</i>					2.5									
copepoda														
calanoida	50.9	29.6	210.3	2586.1	358.1	1824.6	136.5	126.1	357.6	1787.8	108.1	1075.3	129.4	625.7
<i>Acartia bermudensis</i>	(30.0)		(50.0)	(30.0)	(10.0)	(40.0)								(10.0)
<i>A. negligens</i>		(14.0)			(30.0)								(20.0)	
<i>A. spinata</i>		(29.0)		(10.0)		(10.0)					(20.0)			
<i>Calanopia</i> sp.				(30.0)		(10.0)		(20.0)			(10.0)			
<i>Clausocalanus furcatus</i>			(10.0)	(10.0)		(20.0)	(30.0)				(10.0)			
<i>Labidocera aestiva</i>	(20.0)						(20.0)	(10.0)	(90.0)			(30.0)		
<i>Paracalanus aculeatus</i>	(40.0)		(30.0)	(20.0)	(50.0)	(10.0)	(70.0)	(30.0)	(60.0)	(10.0)	(50.0)	(60.0)	(70.0)	(50.0)
<i>Temora stylifera</i>					(10.0)				(10.0)		(10.0)	(10.0)		
<i>Temora turbinata</i>			(10.0)			(10.0)		(20.0)	(20.0)				(10.0)	
unidentified	(10.0)	(57.0)						(10.0)						(40.0)

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TABLE H-152
(continued)
QUALITATIVE AND QUANTITATIVE ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
4 APRIL 1976

Taxon	Station and depth ^b															
	11 0	12 0	0 S	0 B	1 S	1 B	2 S	2 B	3 S	3 B	4 S	4 B	5 S	5 B		
ARTHROPODA																
crustacea																
copepoda (continued)																
cyclopoida	1.2	2.5	9.7	22.0		2.5	17.4		20.2		4.0	10.8	21.4	7.8		
<i>Corycaeus (Oryohocorycaeus) latus</i>				(100.0)			(29.0)		(11.0)			(10.0)	(40.0)			
<i>Farranula gracilis</i>							(43.0)		(44.0)				(40.0)			
<i>Oncaea mediterranea</i>				(100.0)			(29.0)		(44.0)				(20.0)			
harpacticoida	0.6	1.9	3.0	24.8		17.4	1.5		1.1			10.8	0.9			
<i>Microsetella rosea</i>		(50.0)														
unidentified		(50.0)	(100.0)	(100.0)		(100.0)						(100.0)				
cirripedia																
cypris larvae	165.1	1.3	3.7	2.8		3.7					1.6					
nauplii (barnacle)	0.6	645.0	7.4	8.3	14.2	22.4	3.8		4.5	4.8	1.6	26.9	24.8	15.6		
mysidacea				5.5						4.8		2.7		2.6		
cumacea												2.7				
isopoda			4.5	2.8		2.5					0.8					
amphipoda																
gammaridea		2.5														
caprelliida		0.6														
decapoda																
penaeidea																
zoeae ^e			0.7	2.8		1.2	0.8	6.5		14.5	1.6	53.7		15.6		
sergestidae																
protozoeae					12.1					19.4		282.3				
zoeae												21.5				
<i>Lucifer faxoni</i>				5.5			0.8		1.1	14.5	0.8		1.7			
caridea																
zoeae	0.6		1.5			2.5		0.9	7.9	24.2		10.8	0.9	2.6		
macrura																
thalassinidea																
zoeae	0.6			2.8					3.4				0.9	2.6		
anomura																
megaloops																
zoeae ^f	2.5		23.0	99.1	44.5	70.9	3.8	9.3	49.3	24.2	3.2	2.7 637.1	9.4	88.2		
brachyura																
zoeae	12.4	6.9	8.9	49.6	26.3	54.7	2.3	6.5	46.0	111.5	4.0	188.2	10.3	51.9		
BRYOZOA																
cyphonautes larvae					2.0											

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TABLE H-152
(continued)
QUALITATIVE AND QUANTITATIVE ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
4 APRIL 1976

Taxon	Station and depth ^b													
	11	12	0	1	2	3	4	5						
	Ø	Ø	S	B	S	B	S	B	S	B	S	B	S	B
CHAETOGNATHA														
<i>Sagitta</i> sp.			0.7				4.6		2.2			2.7	0.9	
<i>S. helena</i>			0.7				0.8		1.1					
<i>S. hispida</i>									1.1					
ECHINODERMATA	+9						+9		+9		+9	+9	+9	
CHORDATA														
urochordata														
appendicularia														
<i>Oikopleura</i> sp.	1.3		2.2	41.3	10.1	53.4	29.6	49.1	352.0	193.8	108.1	427.4	7.7	64.9
larvae	2.5					1.2							0.9	
fish														
eggs	11.8		5.2	5.5	2.0	1.2	62.9		98.7	4.8	6.4	5.4	14.6	2.6
larvae			0.7				3.1		107.6		5.6	2.7	2.6	
EGGS	11.8	6.3	68.4	132.2	46.5	51.0	21.2	21.4	31.4	116.3	59.6	147.8	30.0	28.6
TOTAL	265.6	700.9	403.5	3233.4	616.9	2518.2	321.9	312.4	1150.1	5479.6	321.4	3287.9	306.9	1025.6

^a Values expressed are undamaged zooplankters per cubic meter and represent the mean of three subsamples.

^b Ø = Oblique; S = Surface; B = Bottom.

^c Scyphozoan medusae removed from sample before analysis.

^d Values in parentheses represent the relative percentage of copepod species sampled at random and are not to be construed as number per cubic meter.

^e Includes penaeidae and sergestidae zoeae.

^f Includes both anomuran zoeae and sergestidae protozoeae.

^g Echinoderm larvae noted as present; however, due to fragility of specimens a quantitative analysis is not available.

TABLE H-153
QUALITATIVE AND QUANTITATIVE³ ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
12 MAY 1976

Taxon	Station and depth ^b															
	11	12	0		1		2		3		4		5			
	0	0	S	B	Sc	B	S	B	S	B	S	B	S	B		
PROTOZOA																
foraminifera		4.9							0.9							
COELENTERATA																
hydrozoa																
hydromedusae																
<i>Liriope</i> sp.	0.7			1.9	18.0	18.8	0.9	2.3		19.6						
unidentified									0.9							
trachymedusae										6.5						
siphonophora	0.4		2.5	72.3	7.7	1.9	0.9	5.8	2.7	65.3		6.0	2.6	6.1		
NEMATODA									0.9							
MOLLUSCA																
gastropoda																
larvae	3.4	4.9	1.7			1.9	2.8	1.2	2.7		10.0		3.7	6.1		
pelecypoda																
larvae	0.4	2.4										3.0				
POLYCHAETA																
adults							1.9				2.5					
intermediates				11.4	5.1		1.8		11.8				0.5			
larvae									0.9	6.5	7.5					
ARTHROPODA																
insecta									0.9							
crustacea																
nauplii	0.7			24.7					8.2	6.5	5.0		1.1			
unidentified developmental stages									2.7		2.5					
cladocera																
unidentified												1.5				
ostracoda																
<i>Conchoecia elegans</i>					2.6					222.1		4.5				
copepoda																
calanoida	49.9	126.6	13.6	272.0	66.8	77.0	653.4	83.8	401.6	627.4	574.1	98.8	59.1	98.1		
<i>Acartia bermudensis</i>		(40.0)	(20.0)	(40.0)	(10.0)		(10.0)		(10.0)	(10.0)	(30.0)		(10.0)	(30.0)		
<i>A. negligens</i>						(20.0)					(10.0)					
<i>A. spinata</i>			(30.0)						(30.0)							
<i>Calanopia</i> sp.	(30.0)	(20.0)			(50.0)	(40.0)						(20.0)		(40.0)		
<i>Eucalanus attenuatus</i>								(30.0)		(40.0)		(50.0)		(50.0)		
<i>Paracalanus aculeatus</i>	(60.0)	(30.0)	(50.0)	(60.0)	(40.0)	(30.0)	(90.0)	(70.0)	(50.0)	(50.0)	(50.0)	(30.0)	(50.0)	(60.0)		
<i>Temora turbinata</i>	(10.0)	(10.0)				(10.0)							(10.0)			
<i>Undinula vulgaris</i>									(10.0)		(10.0)					
cyclopoida	1.9	2.4		11.4		3.7	10.3	12.8	14.5	65.3	20.0	15.0	1.6	30.7		
<i>Corycaeus (Corycaeus) speciosus</i>							(100.0)	(57.0)		(25.0)	(100.0)	(40.0)				
<i>C. (Onychocorycaeus) latus</i>								(43.0)	(100.0)	(50.0)						
<i>Farranula rostrata</i>										(25.0)						
<i>Oncaea mediterranea</i>												(60.0)				
harpacticoida																
unidentified												(100.0)				

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TABLE H-153
(continued)
QUALITATIVE AND QUANTITATIVE ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
12 MAY 1976

Taxon	Station and depth ^b															
	11	12	0	1	2	3	4	5								
	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B
ARTHROPODA																
crustacea (continued)																
cirripedia																
cypris larvae	1.5	2.4		5.7	1.9				1.2		2.5					
nauplii (barnacle)		12.2	0.8	2.6					2.3	6.5	7.5					
stomatopoda																
protozoae											2.5					
zoeae	1.9			7.6						19.6						
isopoda				1.9												
amphipoda		2.4														
gammaridea		126.6								6.5						
hyperiidea					1.9											
caprellida		7.3														
decapoda																
penaeidea																
protozoae				1.9												
sergestidae																
protozoae	3.8			129.3	12.8	7.5			27.9	24.5	84.9	10.0	36.0	3.1	30.7	
<i>Lucifer faxoni</i>	4.9		0.8		7.7	30.1			1.2		19.6					
penaeidae																
postlarvae												2.5				
zoeae	0.4	2.4			1.9											
caridea																
postlarvae									1.2							
zoeae	0.7	2.4		7.6	2.6	1.9			3.5	0.9			6.0			
macrura																
thalassinidea																
zoeae				22.8	12.8	1.9	1.9			1.8						
anomura																
zoeae			0.8	3.8	2.6				1.2	0.9	13.1					
brachyura																
megalops											6.5					
zoeae	102.4	85.2	0.8	78.0	61.7	80.8	16.9	3.5	16.4	6.5	10.0	10.5	2.6	18.4		
CHAETOGNATHA																
<i>Krohnitta</i> sp.										0.9						
<i>Sagitta</i> sp.	0.4				5.1	7.5	14.1			24.5	13.1	29.9	6.0	2.6		
<i>S. enflata</i>				3.8		1.9	0.9	2.3		6.4	6.5		1.5			
<i>S. friderici</i>							0.9					2.5		0.5	6.1	
<i>S. helenae</i>	0.4						2.8			2.7		2.5				
<i>S. hispidia</i>										0.9		2.5				

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TABLE H-153
(continued)
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
12 MAY 1976

Taxon	Station and depth ^b													
	11	12	0	1	2	3	4	5	6	7	8	9	10	11
	Ø	Ø	S	B	S	B	S	B	S	B	S	B	S	B
ECHINODERMATA														
CHORDATA														
urochordata														
thaliacea														
doliolida														
<i>Doliolum</i> sp.						32.6		45.7		16.5				6.1
appendicularia														6.1
<i>Oikopleura</i> sp.														
larvae														
fish														
eggs														
larvae														
EGGS														
TOTAL														

^a Values expressed are undamaged zooplankters per cubic meter and represent the mean of three subsamples.

^b Ø = Oblique; S = Surface; B = Bottom.

^c Scyphozoan medusae removed from sample before analysis.

^d Values in parentheses represent the relative percentage of copepod species sampled at random and are not to be construed as number per cubic meter.

^e Echinoderm larvae noted as present; however, due to fragility of specimens, a quantitative analysis is not available.

TABLE H-154
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
8 JUNE 1976

Taxon	Station and depth ^b													
	11	12	0		1		2		3		4		5	
	0	0	S	B	S	B	S	B	S	B	S	B	S	B
PROTOZOA														
foraminifera	1.5	9.7	9.5		28.1	10.6	5.5	4.3	3.7	3.6	15.1	2.4	6.3	10.8
COELENTERATA														
hydrozoa														
hydromedusae														
<i>Obelia</i> sp.	0.7										1.0			
unidentified	0.4							4.2			1.0			1.8
ROTIFERA						1.5								
MOLLUSCA														
gastropoda														
larvae	10.2	3.0	7.1	12.4	3.8	19.8	15.3	214.4	7.4	60.5	5.0	86.3	4.2	333.8
echinospira larvae							1.1	2.1						
pelecypoda														
larvae	2.2	7.5	4.7	6.9	1.3	9.1		4.2				2.4	2.1	3.6
POLYCHAETA														
adults			2.4						1.7					3.6
intermediates	0.4													
larvae	2.6	2.2	2.4	6.9	1.3	3.0	5.5	2.1	5.6					1.8
ARTHROPODA														
crustacea														
nauplii		0.7	2.4	1.4	3.9	7.6	4.4	19.1	7.4	14.3	6.0		4.2	5.4
cladocera														
<i>Evaadne</i> sp.	0.5	0.7				1.5	1.1				2.0		1.1	1.8
ostracoda														
<i>Conchoecia elegans</i>										3.6				
copepoda ^c														
calanoida	148.0	281.8	85.4	1021.9	237.5	940.8	141.0	2029.5	449.6	1915.1	310.0	697.4	107.3	1243.6
<i>Acartia bermudensis</i>	(64.0)	(100.0)	(70.0)	(60.0)	(80.0)	(100.0)	(20.0)	(30.0)		(10.0)	(22.0)		(20.0)	(40.0)
<i>A. spinata</i>	(18.0)			(20.0)	(20.0)					(10.0)	(11.0)			
<i>Calanopia</i> sp.										(10.0)				
<i>C. americana</i>										(10.0)	(11.0)	(30.0)	(30.0)	
<i>Clausocalanus furcatus</i>							(20.0)			(10.0)	(10.0)	(20.0)	(30.0)	
<i>Eucalanus attenuatus</i>								(40.0)		(10.0)				
<i>Labidocera aestiva</i>														
<i>Nannocalanus minor</i>											(11.0)			
<i>Paracalanus aculeatus</i>	(18.0)		(30.0)	(20.0)			(30.0)	(20.0)	(100.0)	(30.0)	(44.0)	(50.0)	(50.0)	(30.0)
<i>Temora stylifera</i>							(30.0)	(10.0)		(10.0)				
<i>T. turbinata</i>										(20.0)				(30.0)

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TABLE H-154
(continued)
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
8 JUNE 1976

Taxon	Station and depth ^b															
	11	12	0		1		2		3		4		5			
	S	B	S	B	S	B	S	B	S	B	S	B	S	B		
ARTHROPODA																
crustacea																
copepoda ^c (continued)																
cyclopoida	2.9	9.7	16.6	22.0	21.7	7.6	7.7	106.2	29.6	170.9	47.3	55.1	5.3	105.9		
<i>Corycaeus (Aetideus) typicus</i>			(100.0)	(67.0)		(33.0)	(100.0)	(30.0)								
<i>C. (Corycaeus) speciosus</i>				(33.0)	(70.0)	(67.0)		(40.0)	(57.0)	(60.0)	(10.0)	(22.0)		(90.0)		
<i>C. (Onychocorycaeus) latus</i>	(100.0)	(100.0)		(30.0)				(30.0)	(43.0)	(40.0)	(80.0)	(78.0)	(100.0)	(10.0)		
<i>Farranula gracilis</i>											(10.0)					
harpacticoida	8.4	18.7		1.4	1.3	1.5		14.9		10.7	4.0			17.9		
<i>Microsetella rosea</i>		(60.0)														
<i>Miracia efferata</i>								(50.0)								
unidentified	(100.0)	(40.0)			(100.0)	(100.0)		(50.0)		(100.0)				(100.0)		
cirripedia																
cypris larvae	0.4	6.0		1.4		3.1	3.3	2.1		24.9				23.3		
nauplii, (barnacle)	181.1	243.0	92.5	609.3	80.4	176.6	141.0	946.8	7.4	398.7	34.2	143.8	12.6	285.3		
stomatopoda																
protozoae					1.3	1.5			5.6							
mysidacea		0.7										2.4		7.2		
cumacea		0.7						2.1				4.8				
isopoda		2.2		1.4			1.1							3.6		
amphipoda																
gammaridea	0.7	4.5			2.6							2.4				
decapoda																
zoeae				1.4												
penaeidea																
protozoae					2.5					3.6		2.4		1.8		
sergestidae																
protozoae	1.1	0.7	4.7	20.6	6.4	1.5	1.1	84.9		313.3	2.0	52.7		25.1		
zoeae	0.4			1.4		3.1		4.2		17.8			1.1			
<i>Lucifer fazoni</i>						15.2						7.2		1.8		
penaeidae																
protozoae							2.2	2.1		14.2	2.0	4.8				
caridea																
zoeae	0.4			1.4		3.0		21.2		10.7	1.0	9.6	2.1	3.6		
macrura																
thalassinidea																
zoeae						1.5		4.2		3.6		9.6		12.6		
anomura																
zoeae		1.5	2.4					4.3	1.9	21.4		4.8		3.6		
brachyura																
megalops								2.1								
zoeae	6.2	10.5		28.9	6.4	91.3	2.2	384.2		192.2	2.0	182.2	3.2	188.4		

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TABLE H-154
(continued)
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
8 JUNE 1976

Taxon	Station and depth ^b													
	11 Ø	12 Ø	0 S	0 B	1 S	1 B	2 S	2 B	3 S	3 B	4 S	4 B	5 S	5 B
CHAETOGNATHA														
<i>Sagitta</i> sp.	0.4			2.8		6.1		14.9	1.9	7.1	1.0	4.8	1.1	
<i>S. bipinnatata</i>									1.9					
<i>S. enflata</i>								2.1					1.1	
<i>S. frederici</i>			2.4						1.9			2.4		
<i>S. helenae</i>									1.9					
ECHINODERMATA			+d		+d	+d	+d		+d		+d		+d	
CHORDATA														
urochordata														
appendicularia														
<i>Oikopleura</i> sp.	0.7		2.4	4.1	6.4	3.1	1.1	8.5	148.0	74.7	13.1	19.2	4.2	23.3
larvae		0.7		1.4										
fish														
eggs	0.4	0.7			8.9	6.1	1.1		7.4	3.6	16.1		5.3	
larvae					1.3	1.5		6.4	1.9	10.7	2.0	7.2		
EGGS	18.5	19.4	11.8	28.9	15.4	13.7	16.4	23.4	9.3	67.6	18.1	33.6	10.5	10.8
TOTAL	388.1	624.6	246.7	1775.9	430.5	1330.3	351.1	3914.5	694.1	3342.8	482.9	1337.5	171.7	2320.4

^a Values expressed are undamaged zooplankters per cubic meter and represent the mean of three subsamples.

^b Ø = Oblique; S = Surface; B = Bottom.

^c Values in parentheses represent the relative percentage of copepod species sampled at random and are not to be construed as number per cubic meter.

^d Echinoderm larvae noted as present; however, due to fragility of specimens, a quantitative analysis is not available.

TABLE H-155
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
14 JULY 1976

Taxon	Station and depth ^b													
	11	12	0		1		2		3		4		5	
	0	0	S	B	S	B	S	B	S	B	S	B	S	B
PROTOZOA														
foraminifera							3.0						4.2	
COELENTERATA														
hydrozoa														
hydromedusae														
unidentified	0.7													
siphonophora					7.0								1.4	
MOLLUSCA														
gastropoda														
larvae	0.7		6.0			16.9	6.0	13.2	3.2		1.7	5.4	7.0	25.3
pelecypoda														
larvae										40.9				
POLYCHAETA														
adults													5.4	1.4
intermediates					21.1							5.4		
larvae			17.9		14.0	5.6	3.0		4.7	15.7		5.4		
ARTHROPODA														
crustacea														
nauplii	2.5		95.6	6.9	42.1	5.6		19.8		15.7			1.4	
unidentified developmental stages					7.0									
ostracoda														
<i>Conchoecia elegans</i>	17.7		6.0	960.9	28.1	2351.6	1.5	112.0		62.9	1.7	108.5		316.8
copepoda														
calanoida	54.7	22.0	1816.8	629.1	6589.0	2780.2	152.8	7551.2	88.6	2163.9	130.8	4724.9	535.7	202.7
<i>Acartia negligens</i>								(10.0)					(10.0)	
<i>A. spinata</i>	(30.0)		(10.0)						(10.0)				(30.0)	
<i>Eucalanus attenuatus</i>													(10.0)	(13.0)
<i>E. monachus</i>			(10.0)	(30.0)				(30.0)						
<i>Paracalanus aculeatus</i>	(50.0)	(70.0)	(70.0)	(50.0)		(90.0)	(80.0)	(40.0)	(80.0)	(50.0)	(100.0)		(50.0)	(25.0)
<i>Temora turbinata</i>	(20.0)	(30.0)	(10.0)	(20.0)	(100.0)	(10.0)	(20.0)	(20.0)	(10.0)	(50.0)		(100.0)	(50.0)	(50.0)
unidentified														(13.0)
cyclopoida	2.1	0.6	77.7	20.7	42.1	90.2	1.5	26.4	1.6	31.5	3.4	27.1	5.6	50.7
<i>Corycaeus (Agetus) typicus</i>						(50.0)						(100.0)		
<i>C. (Corycaeus) speciosus</i>														
<i>C. (Ornithocorycaeus) latus</i>	(100.0)		(100.0)	(100.0)	(100.0)			(100.0)		(33.0)	(100.0)		(50.0)	(100.0)
<i>Oncaea mediterranea</i>						(50.0)	(100.0)						(50.0)	
<i>O. venusta</i>										(67.0)				
harpacticoida	3.0	11.0	23.9	55.3	210.7	146.6		52.7	1.6	40.9		16.3		25.3
unidentified	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)		(100.0)	(100.0)	(100.0)				

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TABLE H-155
(continued)
QUALITATIVE AND QUANTITATIVE ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
14 JULY 1976

Taxon	Station and depth ^b															
	11	12	0		1		2		3		4		5			
	0	0	S	B	S	B	S	B	S	B	S	B	S	B		
ARTHROPODA																
crustacea (continued)																
cirripedia																
cypris larvae	0.7		6.0	13.8	7.0	423.0		19.8		28.3	1.7	10.9				
nauplii (barnacle)	37.0	84.4	35.9	13.8	28.1	22.6		13.2		18.9	1.7		2.8			
stomatopoda																
protozoaeae											1.7					
zoeae			11.9	62.2		5.6				3.1		21.7				
isopoda	0.5	0.6		13.8	7.0											
amphipoda																
gammaridea		0.6										5.4				
hyperiidea						5.6			1.6							
decapoda																
zoeae						5.6										
penaeidea																
zoeae			6.0													
sergestidae																
protozoaeae	3.0	1.1	11.9	20.7	49.2	62.1		6.6		12.6		5.4	2.8			
zoeae						5.6										
<i>Lucifer faxoni</i>			6.0							9.4	3.4	10.9				
postlarvae												5.4				
zoeae					14.1	5.6						5.4				
caridea																
zoeae	6.5	4.0	53.8	76.0	35.1	22.5		13.2		31.4		38.0	1.4			
macrura																
scyllaridea																
zoeae (phyllosoma)				6.9												
thalassinidea																
zoeae	0.9				21.1	39.5				12.6			1.4			
anomura																
megalops						5.6				3.1						
zoeae	0.2		23.9	6.9	21.1	50.7		13.2		25.1		16.3	25.3			
brachyura																
immatures																
zoeae	12.7	8.7	29.9	20.7	49.1	186.1		6.6	3.1	53.5	1.7	70.5	33.6	38.0		
zoeae								105.4								

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TABLE H-155
(continued)
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
14 JULY 1976

Taxon	Station and depth ^b													
	11	12	0		1		2		3		4		5	
	Ø	Ø	S	B	S	B	S	B	S	B	S	B	S	B
CHAETOGNATHA														
<i>Sagitta</i> sp.	2.3	0.6	340.7	117.5	533.9	270.7	7.6	52.7	7.9	88.1		37.9	62.9	
<i>S. bipunctata</i>					7.0									
<i>S. inflata</i>			113.6	76.0	42.1		3.0	6.6			6.8		7.0	
<i>S. friderici</i>			6.0		7.0	11.3		6.6	1.6		1.7		4.2	
<i>S. helenae</i>				6.9	14.1	5.6		6.6				5.4	1.4	
<i>S. hispidus</i>	0.2				21.1									
unidentified									1.6					
CHORDATA														
urochordata														
appendicularia														
<i>Oikopleura</i> sp.	1.6	0.6	35.9	55.3	21.1	169.2	15.1	92.3	11.1	28.3	6.8		1.4	50.7
larvae	1.6													
fish														
eggs	7.6	0.6												
larvae			17.9			5.6	1.5						4.2	
EGGS	0.5	1.7	340.6	221.2	168.6	67.7	149.8	92.3	164.5	254.8	149.5	162.8	152.5	
TOTAL	156.7	136.5	3083.9	2384.6	8007.8	6766.9	344.8	8210.4	291.1	2940.7	312.6	5294.4	832.3	734.8

^a Values expressed are undamaged zooplankters per cubic meter and represent the mean of three subsamples.

^b Ø = Oblique; S = Surface; B = Bottom.

^c Values in parentheses represent the relative percentage of copepod species sampled at random and are not to be construed as number per cubic meter.

TABLE H-156
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
11 AUGUST 1976

Taxon	Station and depth ^b													
	11	12	0	1	2	3	4	5						
	0	0	S	B	S	B	S	B	S	B	S	B	S	B
PROTOZOA														
foraminifera		5.5	5.6	10.8	4.7	11.6	7.9	11.7	4.3					
COELENTERATA														
hydrozoa														
hydromedusae				10.8		11.6		11.7	2.2	4.6				
unidentified									2.2	4.6				
siphonophora													0.6	
NEMATODA													1.7	
MOLLUSCA														
gastropoda														
larvae	27.2	5.5	11.2	2.9	162.5	18.8	52.2	349.5	11.7	29.3	17.4	119.5	14.9	6.4
thecosomata (pteropoda)														
<i>Cresis acicula</i>			1.9	5.8	10.8		52.2		58.3	161.1	8.7	18.4	97.4	6.3
pelecypoda														
larvae				21.7			15.9			14.6	2.2	4.6	4.2	2.3
POLYCHAETA														
adults				10.8										
intermediates		2.7									4.6			
larvae	4.5	4.1		1018.0		11.6		11.7	14.6					0.6
ARTHROPODA														
insecta														
adults								11.7						
diptera														
pupae														0.6
crustacea														
nauplii	27.2		3.7	8.7	10.8	9.4		7.9			4.6	2.1		
cladocera														
<i>Eubria</i> sp.			1.9				58.0		35.0	14.6	30.5		38.1	1.1
<i>Penilia</i> sp.	4.5		653.4	66.9	1516.1	117.4	1188.8	230.3	233.3	2563.6	100.4	4187.1	1188.2	135.9
ostracoda														
<i>Conchoecia elegans</i>							11.6	15.9		483.4		114.9	2.1	2.3
copepoda ^c														
calanoida	376.2	128.9	1739.9	148.4	1873.5	98.6	1896.3	4399.9	3126.7	3706.1	3399.0	5735.9	1444.4	497.3
<i>Acartia bermudensis</i>		(10.0)							(20.0)					
<i>A. spinata</i>				(10.0)	(20.0)									
<i>Clausocalanus furcatus</i>				(10.0)	(80.0)	(71.0)	(90.0)	(80.0)	(70.0)	(70.0)	(100.0)	(40.0)	(90.0)	(70.0)
<i>Paracalanus aculeatus</i>	(100.0)	(80.0)	(100.0)	(20.0)	(80.0)	(71.0)	(90.0)	(80.0)	(70.0)	(70.0)	(100.0)	(40.0)	(90.0)	(70.0)
<i>Temora stylifera</i>		(10.0)		(70.0)		(29.0)	(10.0)	(20.0)	(10.0)	(30.0)		(50.0)	(10.0)	(30.0)
<i>T. turbinata</i>														

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TABLE H-156
(continued)
QUALITATIVE AND QUANTITATIVE ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
11 AUGUST 1976

Taxon	Station and depth ^b													
	11 0	12 0	0 S	0 B	1 S	1 B	2 S	2 B	3 S	3 B	4 S	4 B	5 S	5 B
ARTHROPODA														
crustacea														
copepoda ^c (continued)														
cyclopoida	40.8				21.7	4.7	191.4	262.1	35.0	219.7	52.4	376.9	25.4	25.5
<i>Corycaeus (Corycaeus) speciosus</i>	(50.0)						(11.0)	(70.0)		(60.0)		(10.0)	(20.0)	(60.0)
<i>C. (Onychocorycaeus) latus</i>	(50.0)				(100.0)		(89.0)	(30.0)		(40.0)	(70.0)	(80.0)	(80.0)	(30.0)
<i>Oncaea mediterranea</i>											(30.0)	(10.0)	(10.0)	(10.0)
harpacticoida												13.8	2.1	4.1
unidentified												(100.0)	(100.0)	(100.0)
cirripedia														
cypris larvae							7.9			14.6			2.1	0.6
nauplii (barnacle)	1346.0	744.4	18.7		140.8	47.0	11.6	587.7	35.0	58.6	4.3	372.3	21.2	163.6
stomatopoda														
protozoae					10.8									
zoeae							5.8							
mysidacea					21.7			7.9	11.7			55.1		3.5
isopoda	4.5											4.6		0.6
amphipoda														
gammaridea										14.6				
decapoda														
penaeidea														
sergestidae														
immatures														0.6
protozoae			3.7	34.9	173.3	37.6	23.2	1572.5		14.6		68.9	67.8	215.7
zoeae						4.7	5.8	127.1		43.9			38.1	8.7
<i>Lucifer faxoni</i>			1.9				23.2	15.9		14.6	2.2	41.4	29.7	0.6
penaeidae														
protozoae				8.7		4.7	11.6			58.6				7.5
caridea														
zoeae	9.1	1.4										13.8	2.1	0.6
macrura														
thalassinidea														
zoeae						4.7	11.6	15.9					2.1	0.6
brachyura														
megalops			1.9											
zoeae	18.1	15.1	1.9	5.8	32.5	32.9	46.4	309.8	23.3	29.3	4.4	220.6	23.3	42.8

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TABLE H-156
(continued)
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
11 AUGUST 1976

Taxon	Station and depth ^b															
	11		12		0		1		2		3		4		5	
	Ø	Ø	S	B	S	B	S	B	S	B	S	B	S	B	S	B
CHAETOGNATHA																
<i>Sagitta</i> sp.	4.5	13.7	44.8		86.6		81.2	87.4	35.0	102.5	41.5	73.5	57.2	16.2		
<i>S. enflata</i>								7.9		43.9		4.6		0.6		
<i>S. frederici</i>		1.4	1.9		10.8						2.2					
<i>S. helenae</i>			1.9										4.2			
<i>S. hispidula</i>			1.9					7.9								
ECHINODERMATA	+d	+d			+d	+d	+d			+d	+d					
CHORDATA																
urochordata																
thaliacea																
salpida						4.7										
appendicularia																
<i>Oikopleura</i> sp.	4.5		18.7		10.8	4.7	5.8	47.7	233.3	410.2	74.2	87.3	21.2	6.4		
larvae	4.5	6.9														
fish																
eggs	95.2	8.2	5.6	2.9		4.7	29.0		35.0	43.9	8.7	9.2	6.4	1.7		
larvae	4.5		5.6						11.7	14.6	13.1					
EGGS			9.3			9.4	40.6	7.9	11.7	29.3	15.3			6.4	2.9	
TOTAL	1971.3	937.8	2535.4	285.0	5154.8	408.7	3781.1	8092.9	3943.5	8100.2	3785.2	11540.8	3100.7	1157.9		

^a Values expressed are undamaged zooplankters per cubic meter and represent the mean of three subsamples.

^b Ø = Oblique; S = Surface; B = Bottom.

^c Values in parentheses represent the relative percentage of copepod species sampled at random and are not to be construed as number per cubic meter.

^d Echinoderm larvae noted as present; however, due to fragility of specimens, a quantitative analysis is not available.

TABLE H-157
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
14 SEPTEMBER 1976

Taxon	Station and depth ^b														
	11	12	0			1		2		3		4		5	
	Ø	Ø	S	B	S	B	S	Bc	S	B	S	B	S	B	
PROTOZOA															
foraminifera					2.3		15.7		3.0						
COELENTERATA															
hydrozoa															
hydromedusae															
<i>Liriope</i> sp.										6.2					
<i>Obelia</i> sp.			1.4		4.6						3.0	49.9			
unidentified					11.5				3.0	18.6	6.1	18.7		10.1	
siphonophora				17.9		8.5						6.2		10.1	
MOLLUSCA															
gastropoda															
larvae			5.7	17.9	43.9	12.7	78.5		14.8	105.6	36.5	24.9	11.5	70.8	
thecosomata (pteropoda)															
<i>Cresseis acicula</i>		4.2												5.1	
pelecypoda															
larvae	12.5	4.2	1.4	9.0	16.1		31.4		17.8		6.1	12.5	3.8	116.3	
POLYCHAETA															
adults										6.2				5.1	
intermediates	4.2				2.3		15.3			6.2			3.8		
larvae	4.2								5.9						
ARTHROPODA															
crustacea															
nauplii	16.6		4.3	17.9	16.2	21.2						12.5	3.8		
cladocera															
<i>Evadne</i> sp.							47.1		11.9						
<i>Penilia</i> sp.	58.2	8.3	351.7	698.6	55.5	93.1	5967.7		1863.2	4281.2	91.2	1800.9	4100.6	2624.7	
ostracoda															
<i>Conchoecia elegans</i>				9.0	9.2		15.7			37.3	3.0				
copepoda															
calanoida	19449.9	4976.6	829.7	2436.3	930.7	486.8	2701.2		481.4	4088.5	1620.8	5458.9	351.9	7646.3	
<i>Acartia bermudensis</i>	(100.0)	(100.0)	(50.0)	(20.0)	(30.0)	(60.0)									
<i>Centropages furcatus</i>									(10.0)		(10.0)				
<i>Paracalanus aculeatus</i>			(30.0)	(20.0)	(50.0)	(20.0)	(50.0)				(30.0)	(10.0)	(50.0)		
<i>Temora turbinata</i>			(20.0)	(60.0)	(20.0)	(20.0)	(50.0)		(90.0)	(100.0)	(60.0)	(90.0)	(50.0)	(100.0)	
cyclopoida	29.1	4.2	68.1	618.0	247.1	380.9	4648.5		1090.6	590.3	510.9	866.2	1434.4	525.9	
<i>Corycaeus (Corycaeus) speciosus</i>			(60.0)	(60.0)	(70.0)	(80.0)	(50.0)		(20.0)	(100.0)	(20.0)	(30.0)	(70.0)		
<i>C. (Onychocorycaeus) latus</i>	(100.0)		(40.0)	(40.0)	(30.0)	(20.0)	(50.0)		(80.0)	(100.0)	(80.0)	(70.0)	(100.0)	(30.0)	
harpacticoida		4.2	12.8	752.4	50.8	46.6			8.9	49.7	24.3	143.3	11.5	30.4	
unidentified			(100.0)	(100.0)	(100.0)	(100.0)				(100.0)	(100.0)	(100.0)		(100.0)	

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TABLE H-157
(continued)
QUALITATIVE AND QUANTITATIVE ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
14 SEPTEMBER 1976

Taxon	Station and depth ^b															
	11	12	0		1		2		3		4		5			
	0	0	S	B	S	B	S	B	S	B	S	B	S	B		
ARTHROPODA																
crustacea (continued)																
cirripedia																
cypris larvae	4.2			9.0	4.6	4.2	15.7		8.9	18.6		6.2	3.8			
nauplii (barnacle)	481.9	171.0	8.5	26.9	18.5	21.2	455.4		53.5	31.1	15.2	12.5	38.2	15.2		
mysidacea				26.9												
cumacea					2.3											
isopoda			2.9		9.2					12.4						
amphipoda							15.7									
gammaridea															10.1	
hyperiidea				9.0					3.0	6.2						
decapoda																
penaeidea																
zoeae														3.8		
sergestidae																
protozoeae	8.3	4.2	245.4	116.4	360.3	97.4	2057.3		493.3	236.1	322.3	118.4	176.0	111.3		
zoeae			5.7	9.0	4.6	4.2	157.0		11.9	87.0	6.1	37.4	145.4	35.4		
<i>Lucifer faxoni</i>			11.4	44.8	23.1	25.4	47.1		32.7	43.5	18.2	106.0	42.1	60.7		
penaeidae																
protozoeae															5.1	
zoeae											3.0	6.2		10.1		
caridea																
zoeae	4.2	4.2	4.3	9.0			31.4		17.8	6.2	3.0	12.5	3.8	20.2		
macrura																
thalassinidea																
zoeae	12.5									6.2		6.2				
anomura																
zoeae										6.2	3.0			35.4		
brachyura																
megalops															5.1	
zoeae	8.3	25.0	241.1	376.2	284.1	283.6	973.7		413.0		501.8	604.5	103.3	389.1		
BRYOZOA																
cyphonautes larvae					2.3											
CHAETOGNATHA																
<i>Sagitta</i> sp.		4.2	25.5	98.5	37.0	25.4			14.8	31.1	57.8	74.8	3.8	30.4		
<i>S. enflata</i>				17.9	4.6	4.2				6.2		6.2				
<i>S. friderici</i>				17.9							3.0	12.5	3.8	10.1		
<i>S. helenae</i>			2.9							6.2		6.2				
unidentified		4.2					47.1					6.2				

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TABLE H-157
(continued)
QUALITATIVE AND QUANTITATIVE ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
14 SEPTEMBER 1976

Taxon	Station and depth ^b													
	11	12	0		1		2		3		4		5	
	Ø	Ø	S	B	S	B	S	B ^c	S	B	S	B	S	B
ECHINODERMATA			+ ^e				+ ^e		+ ^e	+ ^e			+ ^e	
CHORDATA														
urochordata														
appendicularia														
<i>Oikopleura</i> sp.	58.2	16.7	22.7	304.5	2.3	8.5	15.7		3.0	124.3	27.4	193.2	3.8	65.7
larvae					2.3									
fish														
eggs	45.7	29.2					15.7		11.9	6.2		6.2		
larvae									3.0					
EGGS	8.3		32.6	53.8	9.3	12.7	94.2		11.9	37.3	27.4	43.6	11.5	5.1
TOTAL	20206.3	5260.4	1878.1	5696.8	2154.7	1536.6	17447.1		4579.2	9854.6	3290.1	9652.8	6460.6	11853.8

^a Values expressed are undamaged zooplankters per cubic meter and represent the mean of three subsamples.

^b Ø = Oblique; S = Surface; B = Bottom.

^c Not available.

^d Values in parentheses represent the relative percentage of copepod species sampled at random and are not to be construed as number per cubic meter.

^e Echinoderm larvae noted as present; however, due to fragility of specimens, a quantitative analysis is not available.

TABLE H-158
 QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
 ST. LUCIE PLANT
 15 OCTOBER 1976

Taxon	Station and depth ^b													
	11	12	0		1		2		3		4		5	
	0	0	S	B	S	B	S	B	S	B	S	B	S	B
PROTOZOA														
foraminifera		1.8					1.5					2.7		3.3
COELENTERATA														
hydrozoa														
hydromedusae														
unidentified		1.8		0.9	4.0	0.6	7.5		1.5					
siphonophora							3.0							
anthomedusae						0.6								
MOLLUSCA														
gastropoda														
larvae	44.0	55.8	40.9	1.8	173.8	21.2	12.0	104.8	16.0	10.7	20.8	21.9	42.0	71.7
thecosomata (pteropoda)														
<i>Crosseis acicula</i>									37.4		3.8			
pelecypoda														
larvae	38.0	45.0	25.8	2.7	185.7	24.3			5.3	1.5	7.6	5.5	21.0	29.3
POLYCHAETA														
adults					4.0		5.0							
intermediates		5.4	13.6		7.9		4.5		14.7				2.3	
larvae	22.0	9.0	54.6		106.7		1.5		2.7	1.5	7.6		2.3	
ARTHROPODA														
crustacea														
nauplii			3.0	2.7	19.8				17.4		5.7		7.0	
cladocera														
<i>Evadne</i> sp.									4.0					
<i>Penilia</i> sp.	62.0	36.0	7.6		162.0	9.7	318.1		17.4	3.1	15.2		123.7	3.3
ostracoda														
<i>Conchoecia elegans</i>		1.8									1.9		2.3	
copepoda ^c														
calanoida	594.4	495.3	341.0	82.4	2928.0	1674.4	964.7	1212.6	474.7	573.4	424.7	1078.2	452.6	4263.5
<i>Acartia bermidensis</i>	(30.0)	(40.0)	(30.0)	(30.0)					(9.0)				(50.0)	
<i>Centropages furcatus</i>	(30.0)		(30.0)			(50.0)	(90.0)			(30.0)			(10.0)	(30.0)
<i>Paracalanus aculeatus</i>	(10.0)	(10.0)	(20.0)				(10.0)		(64.0)		(60.0)	(60.0)	(40.0)	
<i>Temora turbinata</i>	(30.0)	(50.0)	(20.0)	(70.0)	(100.0)	(50.0)		(100.0)	(27.0)	(70.0)	(40.0)	(40.0)		(70.0)
cyclopoida	18.0	18.0	75.8	3.6	71.1	3.0	676.6	34.9	252.7	124.5	284.3	41.0	184.3	107.5
<i>Corycaeus (Corycaeus) speciosus</i>			(60.0)		(17.0)		(70.0)	(100.0)		(30.0)	(40.0)	(100.0)	(60.0)	(80.0)
<i>C. (Onychocorycaeus) latus</i>		(100.0)	(40.0)	(100.0)	(83.0)	(100.0)	(30.0)		(80.0)	(70.0)	(60.0)		(40.0)	(20.0)
<i>Farranula gracilis</i>									(20.0)					
harpacticoida	12.0	16.2			19.8	2.4		79.9	10.7	1.5	1.9	27.3	4.7	
<i>Microsetella norvegica</i>						(50.0)								
unidentified	(100.0)	(100.0)			(100.0)	(50.0)		(100.0)	(100.0)			(100.0)		

TABLE H-158
(continued)
QUALITATIVE AND QUANTITATIVE ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
15 OCTOBER 1976

Taxon	Station and depth ⁰															
	11	12	0		1		2		3		4		5			
	S	B	S	B	S	B	S	B	S	B	S	B	S	B		
ARTHROPODA																
crustacea (continued)																
cirripedia																
cypris larvae	8.0	1.8		0.9		1.2		15.0	1.3							
nauplii (barnacle)	4729.2	1415.6	80.3		252.9	6.1	394.6	15.0	123.0	32.3	301.4	8.2	333.6	29.3		
mysidacea								10.0						3.3		
cumacea		1.8			4.0											
isopoda	6.0	7.2			7.9	0.6			1.3				2.3			
amphipoda		1.8														
gammaridea		1.8			4.0											
hyperiidea											1.9					
decapoda																
penaeidea																
protozoeae							1.5									
zoeae			1.5													
sergestidae																
protozoeae	22.0	10.8	183.4		51.4	2.4	69.0	5.0	5.0	98.4	58.8	2.7	154.0	22.8		
zoeae							19.5			7.7	3.8		4.7	19.6		
<i>Lucifer saxoni</i>	4.0	3.6	6.0		19.8	1.8	13.5			9.2	3.8	13.7	4.7	9.8		
penaeidae																
protozoeae	2.0						15.0			10.7						
zoeae										3.1				6.5		
caridea																
zoeae	2.0	1.8	4.5		7.9	1.8	28.5	5.0	8.0	10.7	3.8	5.5	4.7	19.5		
macrura																
scyllaridea																
zoeae (phyllosoma)										1.5						
thalassinidea																
zoeae							3.0			1.5			2.3			
anocura																
megalops						0.6		5.0	4.0							
zoeae							9.0	5.0		21.5				9.8		
brachyura																
immatures										1.5						
zoeae	10.0	9.0	25.8		23.7	6.7	342.1	29.9	10.7	150.6	28.4	24.6	9.3	237.8		
BRYOZOA																
cyphonautes larvae					11.9	0.6			5.3		7.6		9.3			

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TABLE H-158
(continued)
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
15 OCTOBER 1976

Taxon	Station and depth ^b															
	11	12	0		1		2		3		4		5			
	Ø	Ø	S	B	S	B	S	B	S	B	S	B	S	B		
CHAETOGNATHA																
<i>Sagitta</i> sp.	10.0	12.6	6.0	0.9	39.5	14.0	22.5	19.9	2.7	16.9	5.7	32.8	4.7	26.1		
<i>S. elegans</i>					15.8											
<i>S. inflata</i>							7.5		1.3	3.1						
<i>S. frederici</i>						1.2					1.9	8.2				
<i>S. helena</i>								5.0							3.3	
<i>S. hispida</i>															3.3	
unidentified										3.1						
ECHINODERMATA																
bipinnaria larvae							+ ^d		+ ^d	+ ^d	+ ^d		+ ^d			
unidentified larvae																
CHORDATA																
urochordata																
appendicularia																
<i>Oikopleura</i> sp.																
larvae	2.0	1.8	21.2	1.8	27.7	13.4	42.0	29.9	169.8	43.0	170.6	13.7	14.0	13.0		
		3.6														
EGGS						1.2			18.7	1.5	1.9		11.7			
TOTAL	5585.6	2159.3	891.0	97.7	4149.3	1787.8	2962.1	1576.9	1207.1	1134.0	1363.1	1286.0	1397.5	4882.7		

^a Values expressed are undamaged zooplankters per cubic meter and represent the mean of three subsamples.

^b Ø = Oblique; S = Surface; B = Bottom.

^c Values in parentheses represent the relative percentage of copepod species sampled at random and are not to be construed as number per cubic meter.

^d Echinoderm larvae noted as present; however, due to fragility of specimens, a quantitative analysis is not available.

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Taxon	Station and depth ^b																				
	11		12	0			1			2			3			4			5		
	0	0	S	B	S	B	S	B	S	B	S	B	S	B	S	B	S	B			
COELENTERATA																					
hydrozoa																					
siphonophora												1.5									
MOLLUSCA																					
gastropoda																					
larvae	0.4		6.8	23.2	18.3	1.1		2.1		3.0		12.8		0.9	11.3						
thecosomata (pteropoda)																					
<i>Cresia acicula</i>		4.6			13.7					3.6	7.5			0.9	22.7						
pelecypoda																					
larvae	3.9	169.0	163.9	230.6	164.4	23.3	7.5	12.1	8.5	51.4	34.7	182.2	3.7	963.3							
POLYCHAETA																					
intermediates			10.2		9.1			17.5	2.1	6.1		16.0	12.8								
larvae	15.0		3.4	12.9	127.9	11.1		15.0		1.5		10.7	3.2	1.9	124.7						
ARTHROPODA																					
crustacea																					
nauplii		9.1	10.2		36.5	1.1	2.5	9.3			10.7	6.4		45.3							
cladocera																					
<i>Eucha</i> sp.					9.1		10.0		3.6	1.5	5.3		25.1								
<i>Penilia</i> sp.							2.5		1.2	1.5											
ostracoda																					
<i>Conchoecia elegans</i>				1.3		1.1															
copepoda ^c																					
calanoida	268.8	456.7	1003.8	632.3	830.9	525.5	513.8	427.0	57.2	436.8	427.0	795.9	105.2	5496.7							
<i>Acartia bermudensis</i>	(100.0)	(100.0)	(30.0)		(30.0)	(40.0)	(50.0)		(30.0)		(30.0)										
<i>Calanopia</i> sp.					(20.0)	(60.0)	(30.0)														
<i>Centropages furcatus</i>			(20.0)	(30.0)				(20.0)													
<i>Labidocera aestiva</i>					(30.0)			(50.0)	(30.0)	(20.0)	(20.0)	(20.0)	(20.0)	(30.0)	(20.0)	(20.0)	(30.0)				
<i>Paracalanus aculeatus</i>			(50.0)	(30.0)	(30.0)			(30.0)	(40.0)	(80.0)	(50.0)	(20.0)	(20.0)	(50.0)	(80.0)	(70.0)					
<i>Temora turbinata</i>				(40.0)	(20.0)			(30.0)	(40.0)	(80.0)	(50.0)	(80.0)	(50.0)	(80.0)	(70.0)						
cyclopoida	6.5		6.8	1.3	45.7	7.8	233.1	18.5	45.0	22.7	61.4	19.2	48.4	181.3							
<i>Corycaeus (Corycaeus) speciosus</i>								(30.0)													
<i>C. (Onychocorycaeus) latus</i>	(100.0)				(80.0)		(70.0)	(50.0)	(100.0)	(100.0)	(80.0)		(100.0)	(100.0)							
<i>Farranula gracilis</i>					(20.0)		(30.0)	(20.0)			(20.0)										
harpacticoida	2.9	27.4	13.6	28.3	41.1	23.3	22.6	13.5	2.4	13.6	8.0	47.9	0.9	226.7							
unidentified	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)		(100.0)	(100.0)	(100.0)		(100.0)							
cirripedia																					
cypris larvae	0.4			2.6								3.2		22.7							
nauplii (barnacle)	378.7	3292.8	102.4	376.1	1451.9	532.2	183.0	363.5	62.0	140.6	32.0	1070.7	18.6	5349.3							
mysidacea		4.6						0.7													
amphipoda																					
gammaridea	0.4	9.1																			

TABLE H-159
(continued)
QUALITATIVE AND QUANTITATIVE^a ZOOPLANKTON ANALYSIS
ST. LUCIE PLANT
10 NOVEMBER 1976

Taxon	Station and depth ^b													
	11 ø	12 ø	0 S	8 B	1 S	8 B	2 S	8 B	3 S	8 B	4 S	8 B	5 S	8 B
ARTHROPODA														
crustacea (continued)														
decapoda														
penaeidea														
sergestidae														
protozoae				2.6		1.1	2.5	4.3		1.5		3.2		11.3
zoeae				1.3						1.5				
<i>Lucifer fazoni</i>			3.4	2.6			2.5	1.4		6.0			1.9	11.3
caridea														
zoeae				1.3		3.3		0.7		1.5		3.2		22.7
macrura														
brachyura														
immatures										1.5				
megalops	0.4													
zoeae	1.4			1.3	4.6	1.1	2.5	5.0		9.1		3.2	0.9	34.0
BRYOZOA														
cyphonautes larvae	3.9				4.6	1.1		2.8	1.2	1.5		3.2	1.9	
CHAETOGNATHA														
<i>Sagitta</i> sp.	1.8	4.6	3.4	16.8	9.1		5.0	3.6		4.5		9.6		11.3
<i>S. enflata</i>	1.1					1.1								
<i>S. frederici</i>				3.9		3.3				3.0		6.4		
<i>S. hispida</i>										1.5				
<i>S. serrodentata</i>										1.5				
ECHINODERMATA	+ ^d		+ ^d	+ ^d	+ ^d	+ ^d		+ ^d	+ ^d	+ ^d		+ ^d	+ ^d	+ ^d
CHORDATA														
urochordata														
thaliacea														
salpida														0.9
appendicularia														
<i>Oikopleura</i> sp.	0.4	9.1	10.2	29.6	32.0	22.2	10.0	16.4	6.1	7.6	34.7	35.2	3.7	
fish														
eggs	0.7				4.6	2.2					2.7			
EGGS				5.2		2.2	5.0	12.1	7.3	18.2	10.7	22.4	15.8	56.7
TOTAL	686.7	3987.0	1338.1	1373.2	2803.5	1164.1	1020.0	910.1	204.2	740.5	653.9	2240.7	230.7	12591.3

^a Values expressed are undamaged zooplankters per cubic meter and represent the mean of three subsamples.

^b ø = Oblique; S = Surface; B = Bottom.

^c Values in parentheses represent the relative percentage of copepod species sampled at random and are not to be construed as number per cubic meter.

^d Echinoderm larvae noted as present; however, due to fragility of specimens, a quantitative analysis is not available.

TABLE H-160
SEAWATER NUTRIENT ANALYSIS
ST. LUCIE PLANT
MARCH 1976

Station	Depth ^a	Nutrients (ppm)					
		PO ₄ -P	SiO ₂	NH ₃ -N	NO ₃ -N	NO ₂ -N	TOC
0	S	0.21	0.95	0.04	0.57	<0.001	7.14
	M	no data	no data	no data	no data	no data	7.16
	B	0.21	1.69	0.09	0.56	<0.001	30.26
1	S	0.37	3.40	0.04	0.55	<0.001	6.00
	M	0.28	0.99	0.22	0.56	<0.001	5.25
	B	0.17	0.99	0.03	0.56	<0.001	7.50
2	S	0.28	0.19	0.04	0.58	<0.001	6.24
	M	0.25	0.29	0.57	0.57	<0.001	5.40
	B	0.28	0.26	0.04	0.57	<0.001	3.95
3	S	0.14	3.20	0.04	0.52	<0.001	5.75
	M	0.17	1.69	0.03	0.53	<0.001	4.50
	B	0.21	0.29	0.03	0.51	<0.001	6.90
4	S	0.14	1.10	0.03	0.54	<0.001	4.50
	M	0.28	0.85	0.03	0.53	<0.001	5.90
	B	0.21	0.29	0.33	0.50	<0.001	7.35
5	S	0.25	3.79	0.03	0.46	<0.001	7.35
	M	0.14	0.60	0.03	0.52	<0.001	7.89
	B	0.21	0.29	0.03	0.52	<0.001	12.75
11	S	0.28	<0.02	0.04	0.55	<0.001	7.85
	B	0.17	1.20	0.04	0.56	<0.001	8.64
12	S	0.21	<0.02	0.04	0.51	<0.001	8.60
	B	0.17	3.59	0.05	0.48	<0.001	7.59

^a S = Surface; M = Middle; B = Bottom.

TABLE H-161
SEAWATER NUTRIENT ANALYSIS
ST. LUCIE PLANT
APRIL 1976

Station	Depth ^a	Nutrients (ppm)					TOC
		PO ₄ -P	SiO ₂	NH ₃ -N	NO ₃ -N	NO ₂ -N	
0	S	0.14	8.49	0.14	0.16	<0.001	5.40
	M	0.16	4.21	0.16	0.17	<0.001	7.20
	B	0.14	13.70	0.07	0.18	<0.001	5.40
1	S	0.14	8.52	0.04	0.19	<0.001	8.30
	M	0.11	5.40	0.08	0.18	<0.001	8.00
	B	0.14	4.70	0.05	0.18	<0.001	6.90
2	S	0.11	2.54	0.07	0.20	<0.001	8.90
	M	0.19	9.85	0.03	0.20	<0.001	11.90
	B	0.16	7.79	0.06	0.18	<0.001	11.90
3	S	0.11	4.60	0.05	0.18	<0.001	6.39
	M	0.19	8.20	0.04	0.21	<0.001	7.44
	B	0.11	5.65	0.11	0.18	<0.001	5.90
4	S	0.14	0.88	0.11	0.18	<0.001	14.60
	M	0.14	10.50	0.09	0.19	<0.001	6.15
	B	<0.01	6.24	0.05	0.18	<0.001	17.00
5	S	<0.01	3.30	0.05	0.19	<0.001	7.40
	M	0.14	16.19	0.04	0.18	<0.001	14.70
	B	<0.01	6.55	0.04	0.16	<0.001	15.39
11	S	0.28	4.70	0.09	0.15	<0.001	6.39
	B	0.16	2.99	0.07	0.18	<0.001	7.44
12	S	0.21	5.79	0.07	0.17	<0.001	6.54
	B	0.14	4.10	0.03	0.20	<0.001	6.80

^a S = Surface; M = Middle; B = Bottom.

TABLE H-162
SEAWATER NUTRIENT ANALYSIS
ST. LUCIE PLANT
MAY 1976

Station	Depth ^a	Nutrients (ppm)					TOC
		PO ₄ -P	SiO ₂	NH ₃ -N	NO ₃ -N	NO ₂ -N	
0	S	0.33	1.62	0.04	0.27	<0.001	12.54
	M	0.14	1.34	0.04	0.28	<0.001	9.95
	B	0.08	2.18	0.03	0.29	<0.001	8.85
1	S	0.08	1.59	0.03	0.27	<0.001	8.19
	M	0.14	1.87	0.03	0.26	<0.001	6.95
	B	0.11	1.73	0.04	0.26	<0.001	11.45
2	S	0.19	1.80	0.03	0.28	<0.001	12.09
	M	0.11	1.66	0.02	0.27	<0.001	9.09
	B	0.19	2.49	0.02	0.28	<0.001	11.49
3	S	0.08	1.79	0.03	0.27	<0.001	8.57
	M	<0.01	2.35	0.03	0.27	<0.001	8.49
	B	0.08	1.27	0.03	0.26	<0.001	7.85
4	S	0.14	1.79	0.04	0.27	<0.001	8.60
	M	0.14	2.18	0.04	0.27	<0.001	7.10
	B	0.08	1.66	0.03	0.28	<0.001	8.79
5	S	0.14	1.96	0.02	0.26	<0.001	8.15
	M	0.14	2.32	0.03	0.26	<0.001	7.50
	B	0.16	2.56	0.02	0.27	<0.001	8.79
11	S	<0.01	2.43	0.03	0.27	<0.001	6.75
	B	0.14	2.18	0.02	0.26	<0.001	6.50
12	S	0.14	2.84	0.03	0.28	<0.001	6.99
	B	0.29	1.56	0.02	0.27	<0.001	7.50

^a S = Surface; M = Middle; B = Bottom.

TABLE H-163
SEAWATER NUTRIENT ANALYSIS
ST. LUCIE PLANT
JUNE 1976

Station	Depth ^a	Nutrients (ppm)					TOC
		PO ₄ -P	SiO ₂	NH ₃ -N	NO ₃ -N	NO ₂ -N	
0	S	0.24	0.17	0.07	0.23	<0.001	5.04
	M	0.29	0.16	0.07	0.25	<0.001	5.85
	B	0.19	0.18	0.13	0.25	<0.001	6.50
1	S	0.29	0.14	0.03	0.22	<0.001	5.25
	M	0.29	0.13	0.07	0.25	<0.001	4.85
	B	0.24	0.15	0.09	0.24	<0.001	5.04
2	S	0.24	0.19	<0.02	0.25	<0.001	4.25
	M	0.21	0.17	0.08	0.24	<0.001	4.50
	B	0.24	0.14	0.07	0.22	<0.001	4.80
3	S	0.19	0.22	0.04	0.25	<0.001	5.55
	M	0.24	0.22	0.03	0.24	<0.001	4.85
	B	0.29	0.15	0.07	0.23	<0.001	4.74
4	S	0.29	0.14	0.04	0.24	<0.001	5.10
	M	0.24	0.12	0.10	0.24	<0.001	5.45
	B	0.29	0.16	0.08	0.24	<0.001	4.74
5	S	0.29	0.19	0.03	0.25	<0.001	4.29
	M	0.33	0.17	0.06	0.24	<0.001	5.34
	B	0.29	0.17	0.03	0.23	<0.001	5.40
11	S	0.24	0.21	0.03	0.21	<0.001	5.75
	B	0.29	0.18	0.02	0.24	<0.001	5.59
12	S	0.24	0.21	0.03	0.23	<0.001	5.48
	B	0.24	0.24	0.02	0.24	<0.001	6.50

^a S = Surface; M = Middle; B = Bottom.

TABLE H-164
SEAWATER NUTRIENT ANALYSIS
ST. LUCIE PLANT
JULY 1976

Station	Depth ^a	Nutrients (ppm)					TOC
		PO ₄ -P	SiO ₂	NH ₃ -N	NO ₃ -N	NO ₂ -N	
0	S	0.29	0.26	0.07	0.15	<0.001	10.44
	M	0.25	0.29	0.13	0.15	<0.001	8.94
	B	0.31	0.30	0.13	0.15	<0.001	9.20
1	S	0.01	0.40	0.07	0.15	<0.001	8.04
	M	0.01	0.43	0.09	0.15	<0.001	8.49
	B	0.01	0.40	0.07	0.15	<0.001	7.74
2	S	0.01	0.27	0.05	0.15	<0.001	6.39
	M	<0.01	0.20	0.06	0.15	<0.001	7.44
	B	0.01	0.26	0.05	0.15	<0.001	8.45
3	S	0.23	0.23	0.10	0.15	<0.001	7.29
	M	0.43	0.30	0.10	0.15	<0.001	9.39
	B	0.01	0.23	0.07	0.15	<0.001	7.70
4	S	0.28	0.40	0.19	0.15	<0.001	8.00
	M	0.48	0.26	0.10	0.15	<0.001	8.94
	B	0.34	0.43	0.18	0.15	<0.001	8.75
5	S	0.25	0.33	0.14	0.15	<0.001	9.39
	M	0.42	0.26	0.11	0.15	<0.001	8.30
	B	0.44	0.23	0.10	0.15	<0.001	8.55
11	S	0.47	0.66	0.08	0.15	<0.001	11.10
	B	0.26	0.57	0.07	0.15	<0.001	6.54
12	S	0.47	0.67	0.15	0.15	<0.001	6.95
	B	0.39	0.57	0.12	0.15	<0.001	15.30

^a S = Surface; M = Middle; B = Bottom.

TABLE H-165
SEAWATER NUTRIENT ANALYSIS
ST. LUCIE PLANT
AUGUST 1976

Station	Depth ^a	Nutrients (ppm)					TOC
		PO ₄ -P	SiO ₂	NH ₃ -N	NO ₃ -N	NO ₂ -N	
0	S	<0.01	0.23	0.02	<0.1	0.007	4.25
	M	<0.01	0.28	0.09	<0.1	0.006	3.90
	B	<0.01	0.26	0.11	<0.1	0.007	3.39
1	S	<0.01	0.28	0.15	<0.1	0.006	5.60
	M	<0.01	0.26	0.10	<0.1	0.006	6.95
	B	<0.01	0.27	0.05	<0.1	0.006	4.35
2	S	<0.01	0.22	0.10	<0.1	0.007	4.80
	M	<0.01	0.21	0.14	<0.1	0.006	5.90
	B	<0.01	0.70	0.13	<0.1	0.006	4.05
3	S	<0.01	0.13	0.09	<0.1	0.006	5.25
	M	<0.01	0.13	0.02	<0.1	0.006	6.45
	B	<0.01	0.16	0.02	<0.1	0.007	4.40
4	S	<0.01	0.25	0.15	<0.1	0.006	5.45
	M	<0.01	0.18	0.13	<0.1	0.006	4.44
	B	<0.01	0.33	0.04	<0.1	0.006	3.05
5	S	<0.01	0.12	0.10	<0.1	0.006	7.35
	M	<0.01	0.44	0.11	<0.1	0.006	5.34
	B	<0.01	0.33	0.07	<0.1	0.006	4.44
11	S	<0.01	2.05	0.06	<0.1	0.007	13.14
	B	<0.01	0.44	0.05	<0.1	0.006	8.90
12	S	<0.01	0.75	0.05	<0.1	0.006	10.95
	B	<0.01	0.56	0.06	<0.1	0.006	6.99

^a S = Surface; M = Middle; B = Bottom.

TABLE H-166
SEAWATER NUTRIENT ANALYSIS
ST. LUCIE PLANT
SEPTEMBER 1976

Station	Depth ^a	Nutrients (ppm)					TOC
		PO ₄ -P	SiO ₂	NH ₃ -N	NO ₃ -N	NO ₂ -N	
0	S	<0.01	0.17	0.02	<0.10	<0.001	9.35
	M	<0.01	0.16	0.07	<0.10	<0.001	9.54
	B	<0.01	0.13	0.05	<0.10	<0.001	10.80
1	S	<0.01	0.30	0.02	<0.10	<0.001	9.75
	M	<0.01	0.31	0.02	<0.10	<0.001	8.70
	B	<0.01	0.35	0.03	<0.10	<0.001	12.24
2	S	<0.01	0.23	0.02	0.28	<0.001	9.35
	M	<0.01	0.36	0.03	<0.10	<0.001	9.50
	B	<0.01	0.21	0.19	<0.10	<0.001	10.80
3	S	<0.01	0.16	0.03	<0.10	<0.001	9.84
	M	<0.01	0.17	0.20	<0.10	<0.001	11.25
	B	<0.01	0.20	0.02	<0.10	<0.001	11.25
4	S	<0.01	0.16	0.05	<0.10	<0.001	9.50
	M	<0.01	0.22	0.03	<0.10	<0.001	8.79
	B	<0.01	0.13	0.03	<0.10	<0.001	11.10
5	S	<0.01	0.26	0.03	<0.10	<0.001	10.80
	M	<0.01	0.22	0.05	0.12	<0.001	8.79
	B	<0.01	0.24	0.02	<0.10	<0.001	9.05
11	S	<0.01	1.60	0.34	<0.10	<0.001	17.85
	B	<0.01	0.54	0.18	<0.10	<0.001	8.00
12	S	<0.01	0.75	0.07	<0.10	<0.001	10.40
	B	<0.01	0.73	0.20	<0.10	<0.001	9.95

^a S = Surface; M = Middle; B = Bottom.

TABLE H-167
SEAWATER NUTRIENT ANALYSIS
ST. LUCIE PLANT
OCTOBER 1976

Station	Depth ^a	Nutrients (ppm)					TOC
		PO ₄ -P	SiO ₂	NH ₃ -N	NO ₃ -N	NO ₂ -N	
0	S	<0.01	0.59	<0.01	<0.10	<0.001	5.30
	M	<0.01	0.79	<0.01	<0.10	<0.001	5.30
	B	<0.01	0.84	<0.01	<0.10	<0.001	5.19
1	S	<0.01	0.70	<0.01	<0.10	<0.001	4.50
	M	<0.01	0.75	<0.01	<0.10	<0.001	4.89
	B	0.14	0.78	<0.01	<0.10	<0.001	5.90
2	S	<0.01	0.68	<0.01	<0.10	<0.001	5.19
	M	<0.01	0.73	<0.01	<0.10	<0.001	5.00
	B	<0.01	0.66	<0.01	<0.10	<0.001	4.10
3	S	<0.01	0.53	<0.01	<0.10	<0.001	5.55
	M	<0.01	0.67	<0.01	0.23	<0.001	6.09
	B	0.14	0.77	0.01	<0.10	<0.001	6.60
4	S	<0.01	0.63	<0.01	<0.10	<0.001	6.50
	M	<0.01	0.70	<0.01	<0.10	<0.001	7.40
	B	<0.01	0.69	<0.01	<0.10	<0.001	5.79
5	S	<0.01	0.56	<0.01	<0.10	<0.001	6.50
	M	<0.01	0.86	<0.01	<0.10	<0.001	7.29
	B	0.14	0.76	<0.01	<0.10	<0.001	5.40
11	S	<0.01	0.67	0.01	<0.10	<0.001	6.39
	B	<0.01	0.70	0.02	<0.10	<0.001	6.95
12	S	<0.01	0.74	0.01	<0.10	<0.001	5.19
	B	<0.01	0.69	0.01	<0.10	<0.001	5.49

^a S = Surface; M = Middle; B = Bottom.

TABLE H-168

SEAWATER NUTRIENT ANALYSIS
ST. LUCIE PLANT
NOVEMBER 1976

Station	Depth ^a	Nutrients (ppm)					TOC
		PO ₄ -P	SiO ₂	NH ₃ -N	NO ₃ -N	NO ₂ -N	
0	S	<0.01	0.08	<0.01	<0.10	<0.001	6.48
	M	<0.01	0.04	0.01	<0.10	0.002	6.56
	B	<0.01	0.04	<0.01	<0.10	0.002	9.42
1	S	<0.01	0.05	0.03	<0.10	0.001	13.95
	M	<0.01	0.05	<0.01	<0.10	<0.001	12.75
	B	<0.01	0.04	0.02	<0.10	0.002	10.35
2	S	<0.01	0.06	0.01	<0.10	0.001	6.00
	M	<0.01	0.06	0.01	<0.10	0.001	9.42
	B	<0.01	0.09	0.01	<0.10	0.005	10.59
3	S	<0.01	0.02	0.01	<0.10	<0.001	11.55
	M	<0.01	0.06	<0.01	<0.10	0.001	11.00
	B	<0.01	0.04	<0.01	<0.10	0.001	8.40
4	S	<0.01	0.09	0.01	<0.10	<0.001	10.16
	M	<0.01	0.05	<0.01	<0.10	0.002	11.13
	B	<0.01	0.02	<0.01	<0.10	<0.001	7.44
5	S	<0.01	0.06	0.01	<0.10	<0.001	2.94
	M	<0.01	0.03	0.01	<0.10	<0.001	8.19
	B	<0.01	0.04	0.01	<0.10	0.004	11.00
11	S	<0.01	0.11	0.03	<0.10	0.002	8.46
	B	<0.01	0.14	0.04	<0.10	0.007	8.46
12	S	<0.01	0.22	0.05	<0.10	0.002	9.87
	B	<0.01	0.19	0.06	<0.10	0.002	12.60

^a S = Surface; M = Middle; B = Bottom.

TABLE H-169
SEAWATER NUTRIENT ANALYSIS
ST. LUCIE PLANT
DECEMBER 1976

Station	Depth ^a	Nutrients (ppm)					TOC
		PO ₄ -P	SiO ₂	NH ₃ -N	NO ₃ -N	NO ₂ -N	
0	S	<0.01	0.05	0.02	<0.10	0.001	15.90
	M	<0.01	0.07	0.01	<0.10	0.002	15.20
	B	<0.01	0.17	0.01	<0.10	0.004	11.05
1	S	<0.01	0.07	<0.01	<0.10	0.002	16.75
	M	<0.01	0.08	0.02	<0.10	0.002	18.90
	B	<0.01	0.04	0.01	<0.10	0.001	15.30
2	S	<0.01	0.06	0.01	<0.10	<0.001	13.40
	M	<0.01	0.04	<0.01	<0.10	0.002	12.20
	B	<0.01	0.12	0.01	<0.10	0.001	12.95
3	S	<0.01	0.12	<0.01	<0.10	<0.001	15.10
	M	<0.01	0.05	<0.01	<0.10	0.001	11.80
	B	<0.01	0.06	<0.01	<0.10	<0.001	15.95
4	S	<0.01	0.05	0.01	<0.10	<0.001	26.25
	M	<0.01	0.06	0.01	<0.10	0.003	22.75
	B	<0.01	0.08	<0.01	<0.10	0.002	35.55
5	S	<0.01	0.07	0.01	<0.10	0.002	25.10
	M	<0.01	0.07	<0.01	<0.10	<0.001	14.50
	B	<0.01	<0.02	0.01	<0.10	0.002	20.05
11	S	<0.01	0.25	0.01	<0.10	0.003	20.55
	B	<0.01	0.23	0.01	<0.10	0.002	15.10
12	S	<0.01	0.29	0.01	<0.10	0.002	13.25
	B	<0.01	0.16	0.01	<0.10	0.001	11.37

^a S = Surface; M = Middle; B = Bottom.

H-373

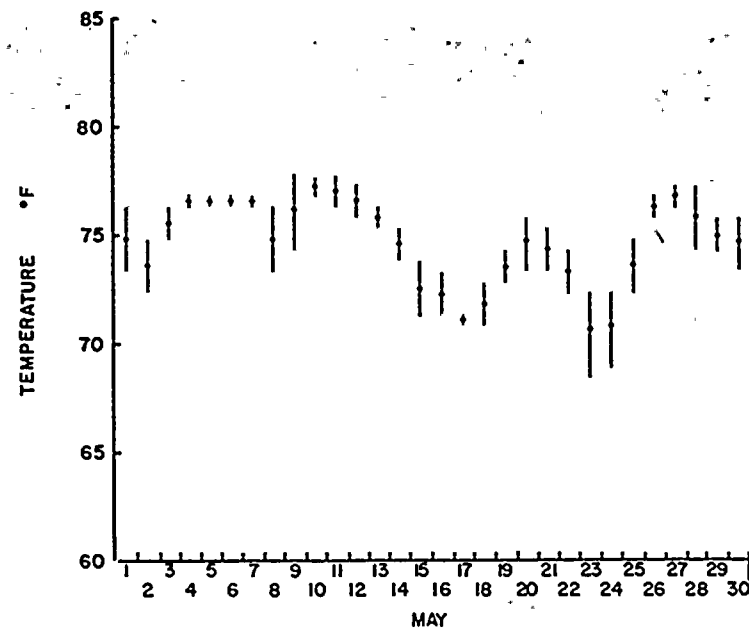
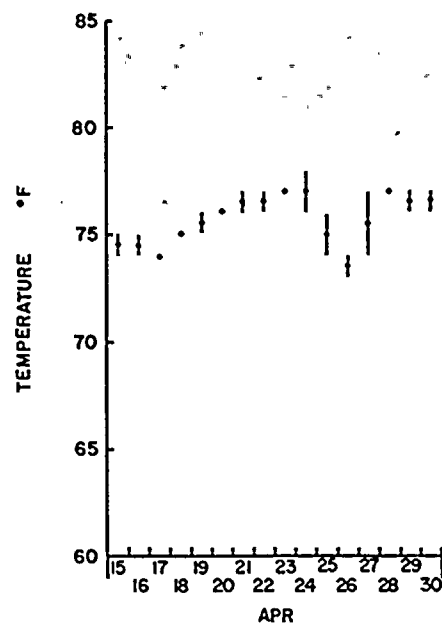


Figure H-1. Daily range of water temperatures continuously recorded at the St. Lucie Plant intake structure, 1976.

H-374

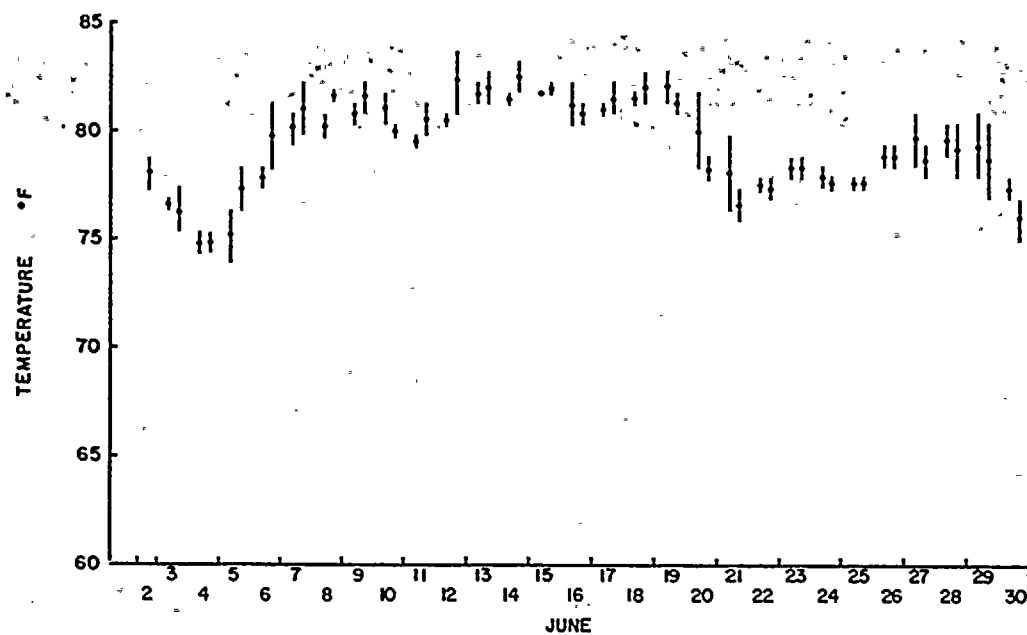


Figure H-1 (continued). Daily range of water temperatures continuously recorded at the St. Lucie Plant intake structure, 1976.

H-375

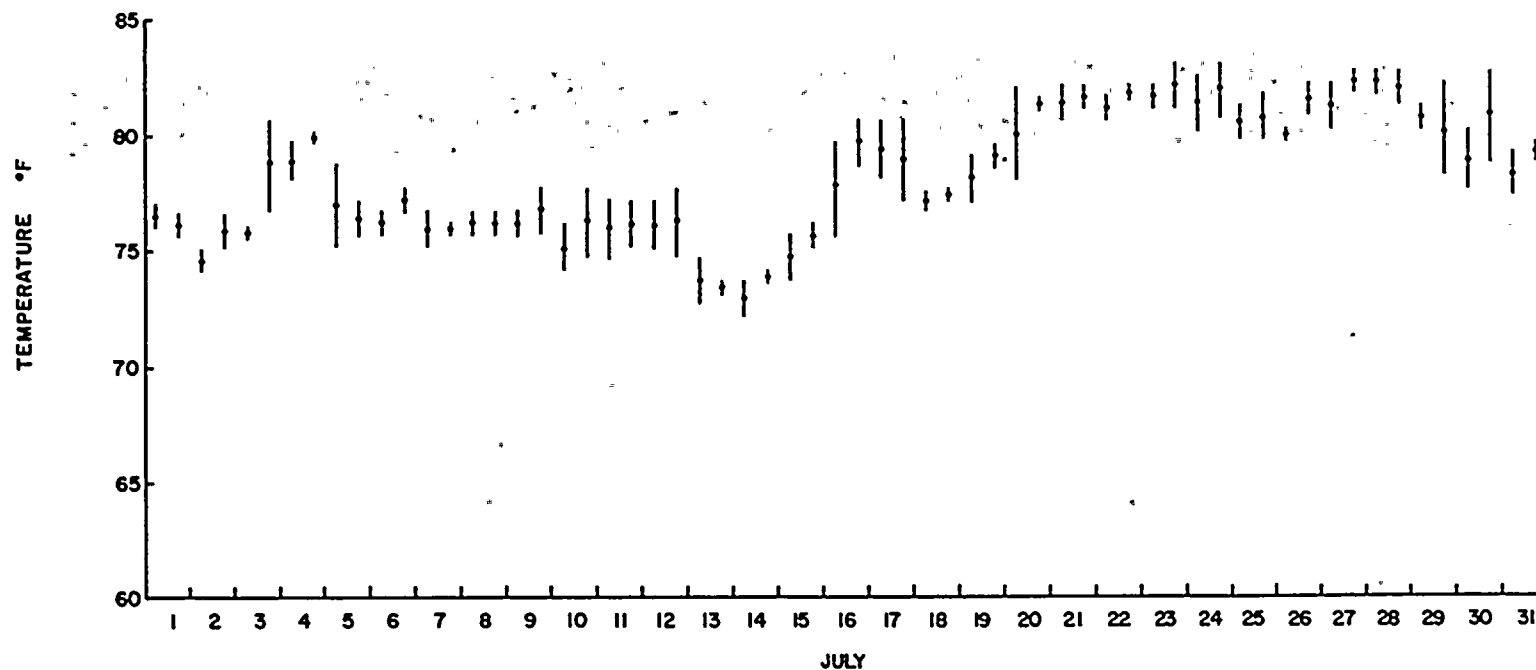


Figure H-1 (continued). Daily range of water temperatures continuously recorded at the St. Lucie Plant intake structure, 1976.

H-376

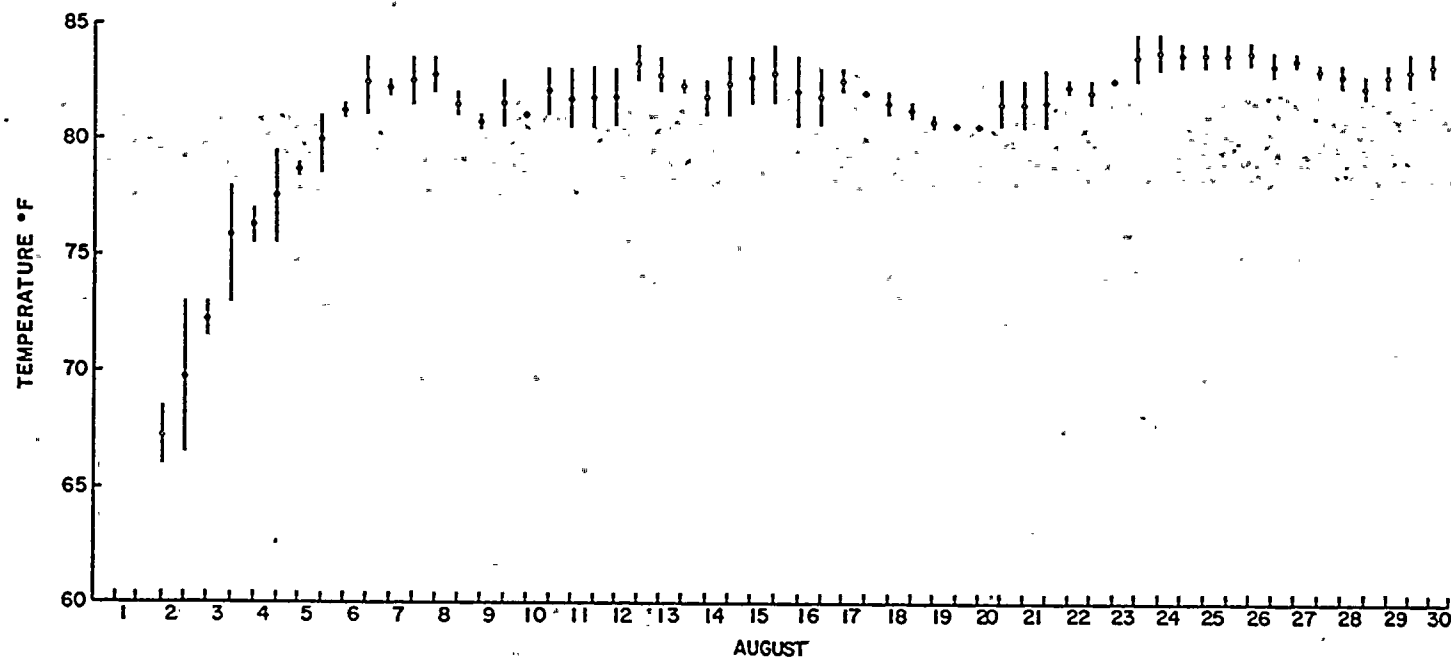


Figure H-1 (continued). Daily range of water temperatures continuously recorded at the St. Lucie Plant intake structure, 1976.

H-377

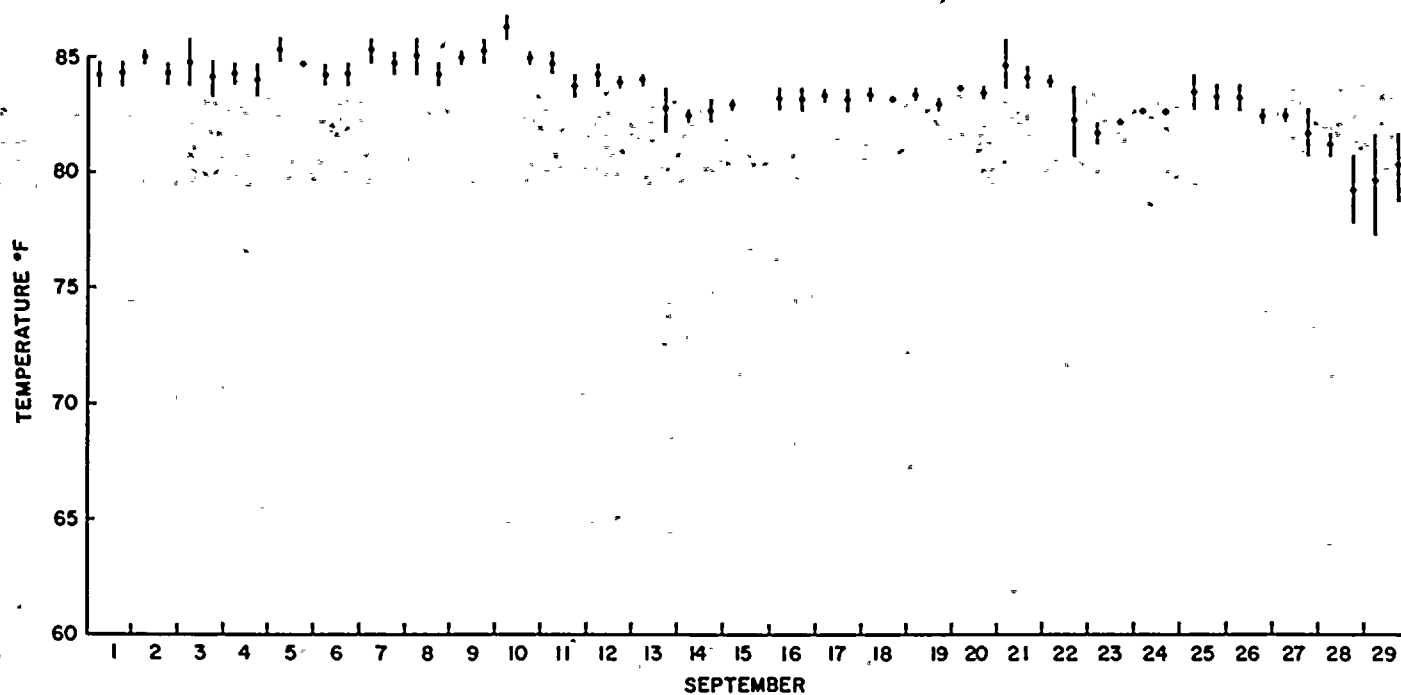


Figure H-1 (continued). Daily range of water temperatures continuously recorded at the St. Lucie Plant intake structure, 1976.

H-378

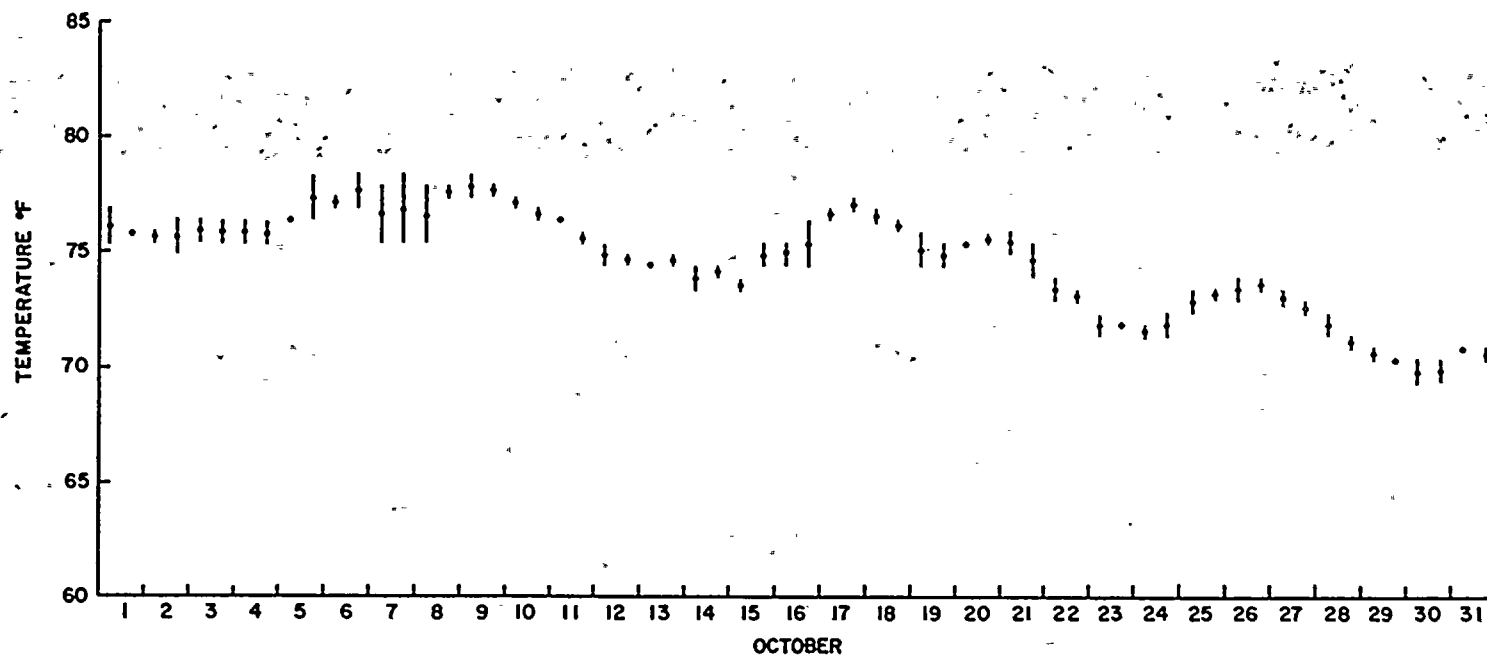


Figure H-1 (continued). Daily range of water temperatures continuously recorded at the St. Lucie Plant intake structure, 1976.

H-379

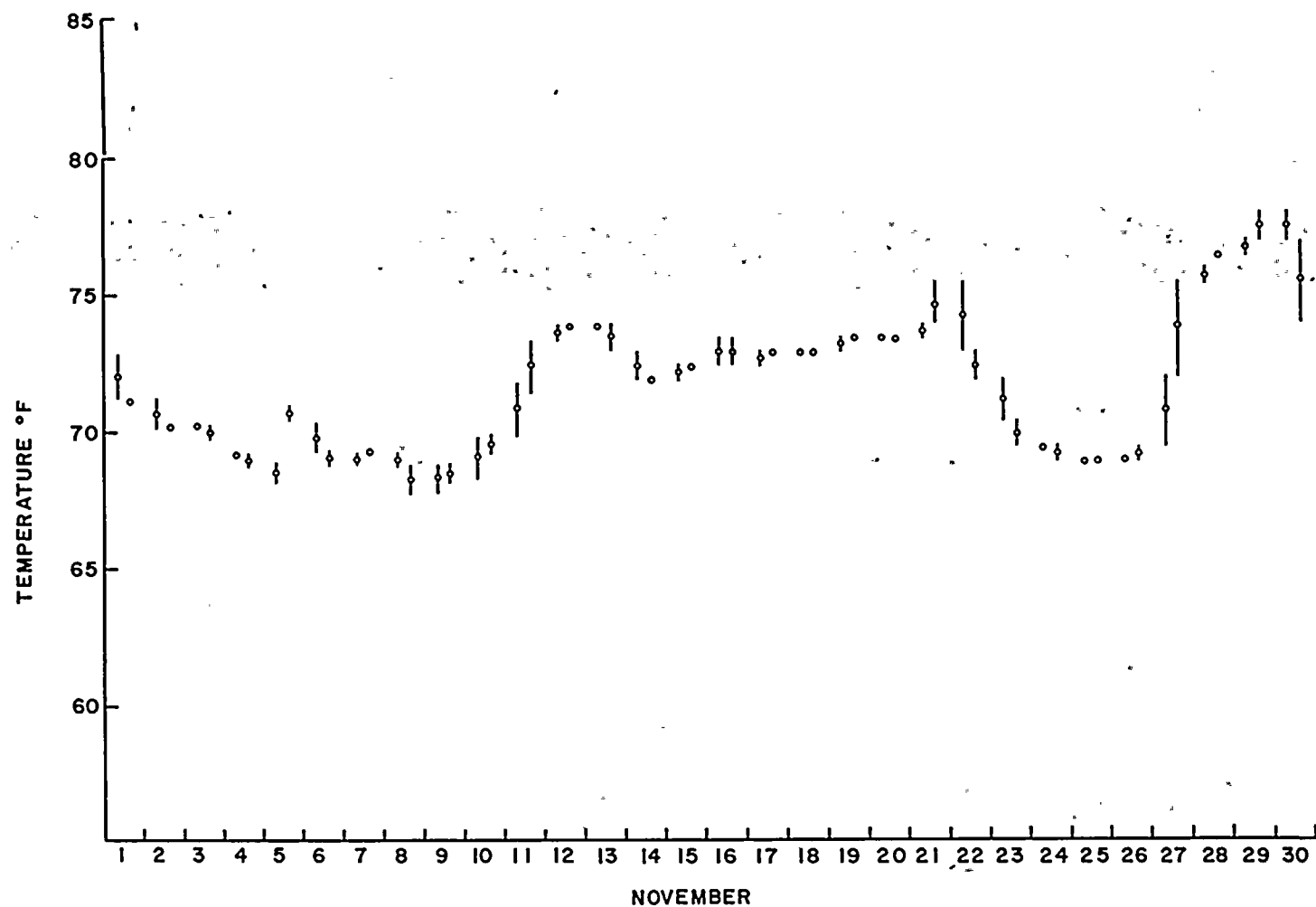


Figure H-1 (continued). Daily range of water temperatures continuously recorded at the St. Lucie Plant intake structure, 1976.

H-380

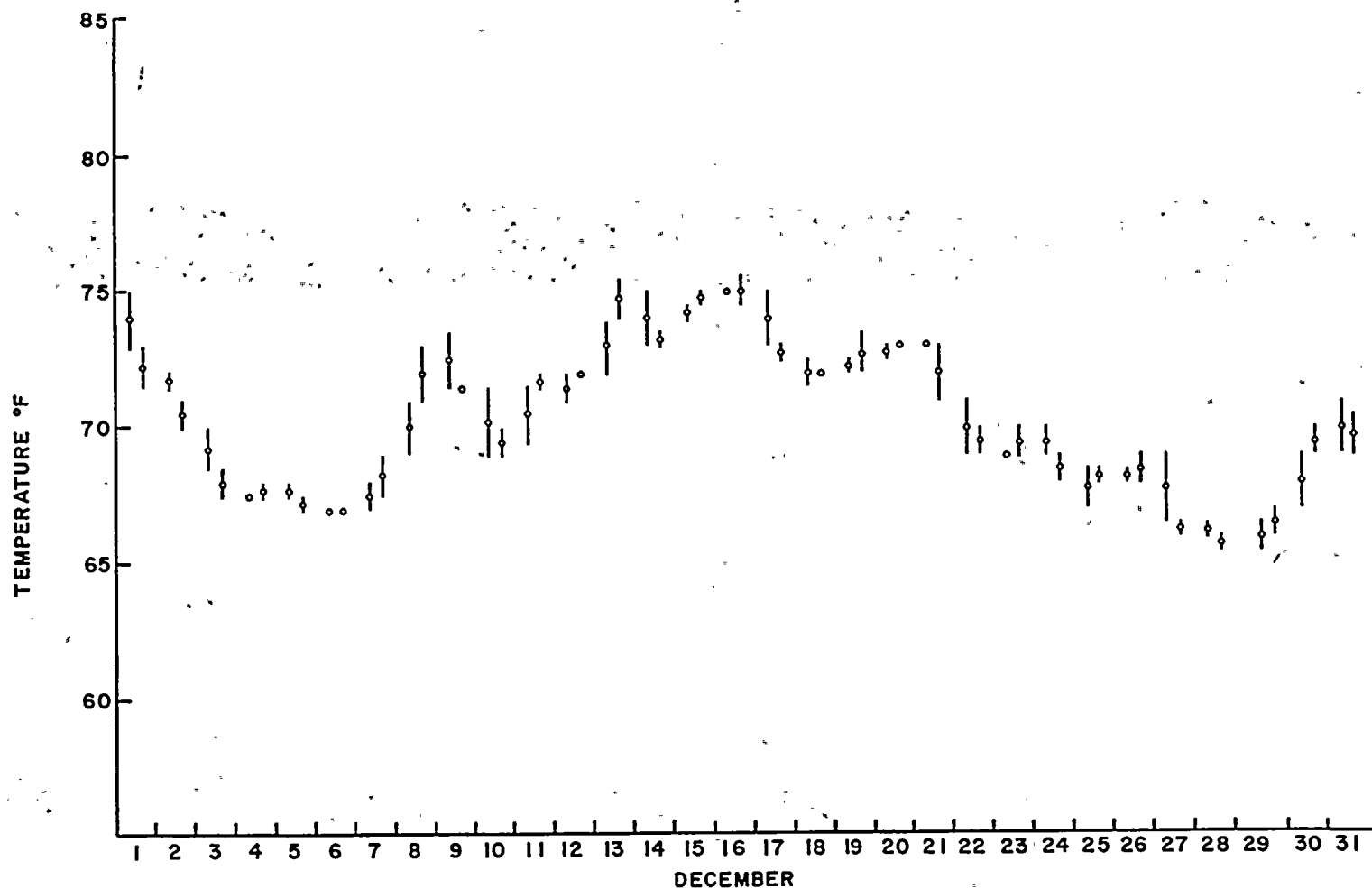


Figure H-1 (continued). Daily range of water temperatures continuously recorded at the St. Lucie Plant intake structure, 1976.

H-381

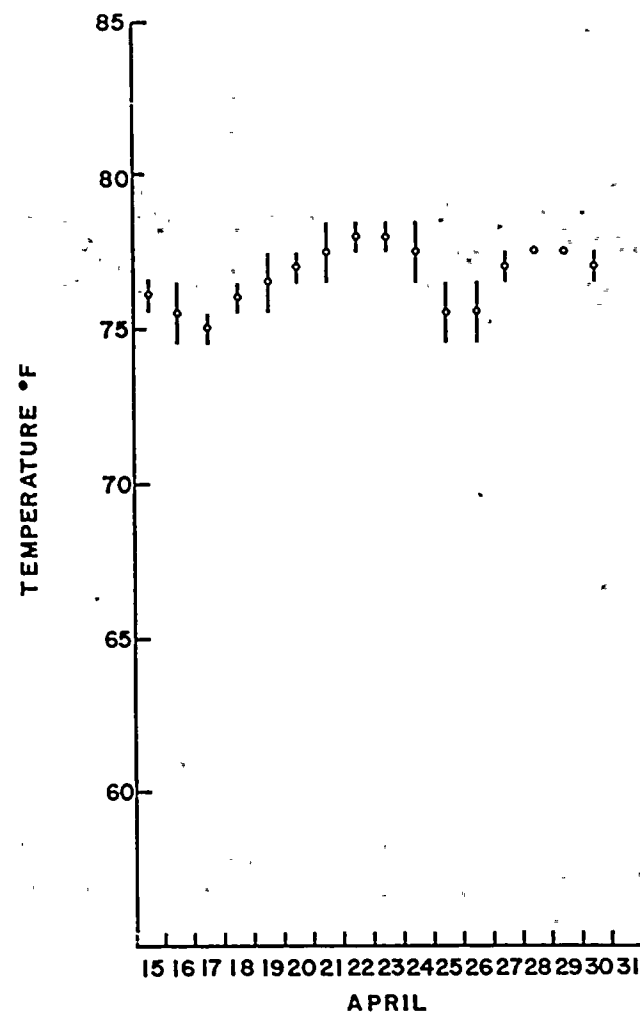


Figure H-2. Daily range of water temperatures continuously recorded at the St. Lucie Plant discharge structure, 1976.

H-382

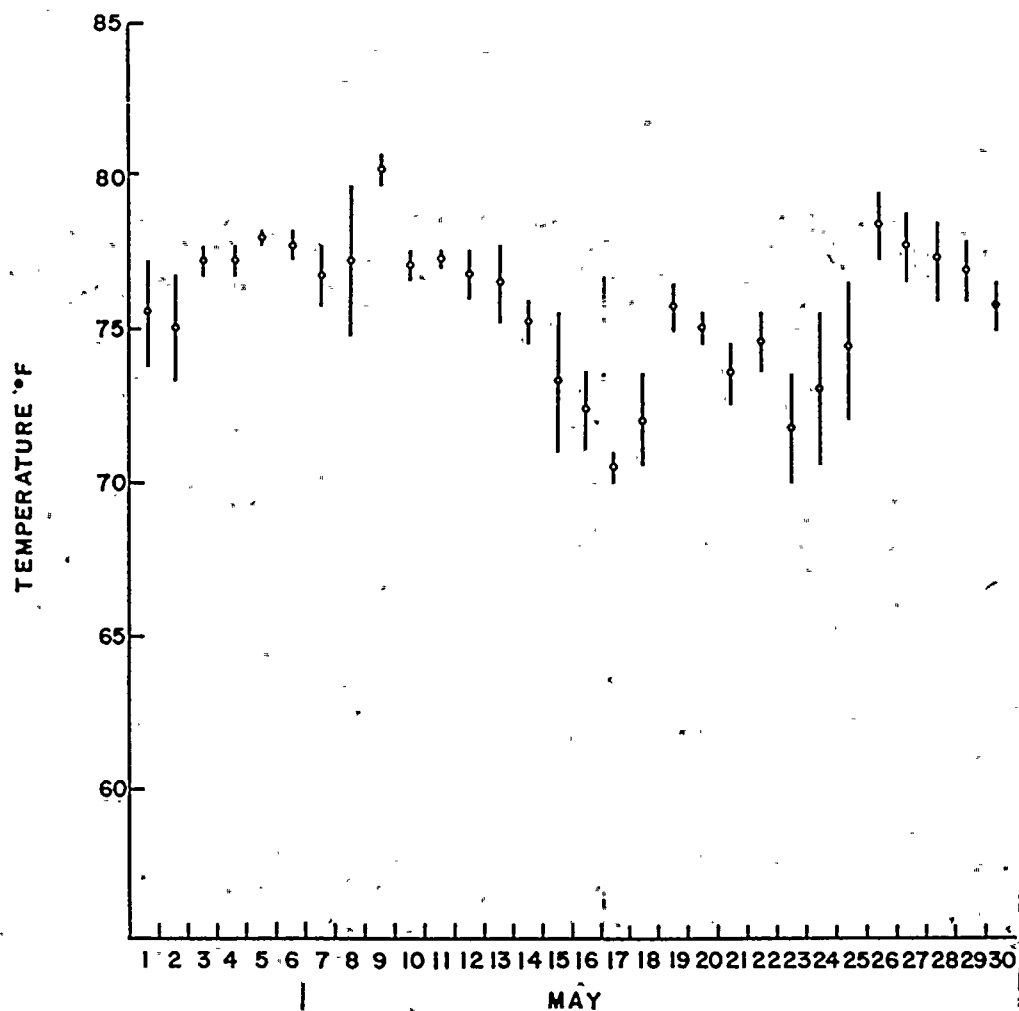


Figure H-2 (continued). Daily range of water temperatures continuously recorded at the St. Lucie Plant discharge structure, 1976.

H-383

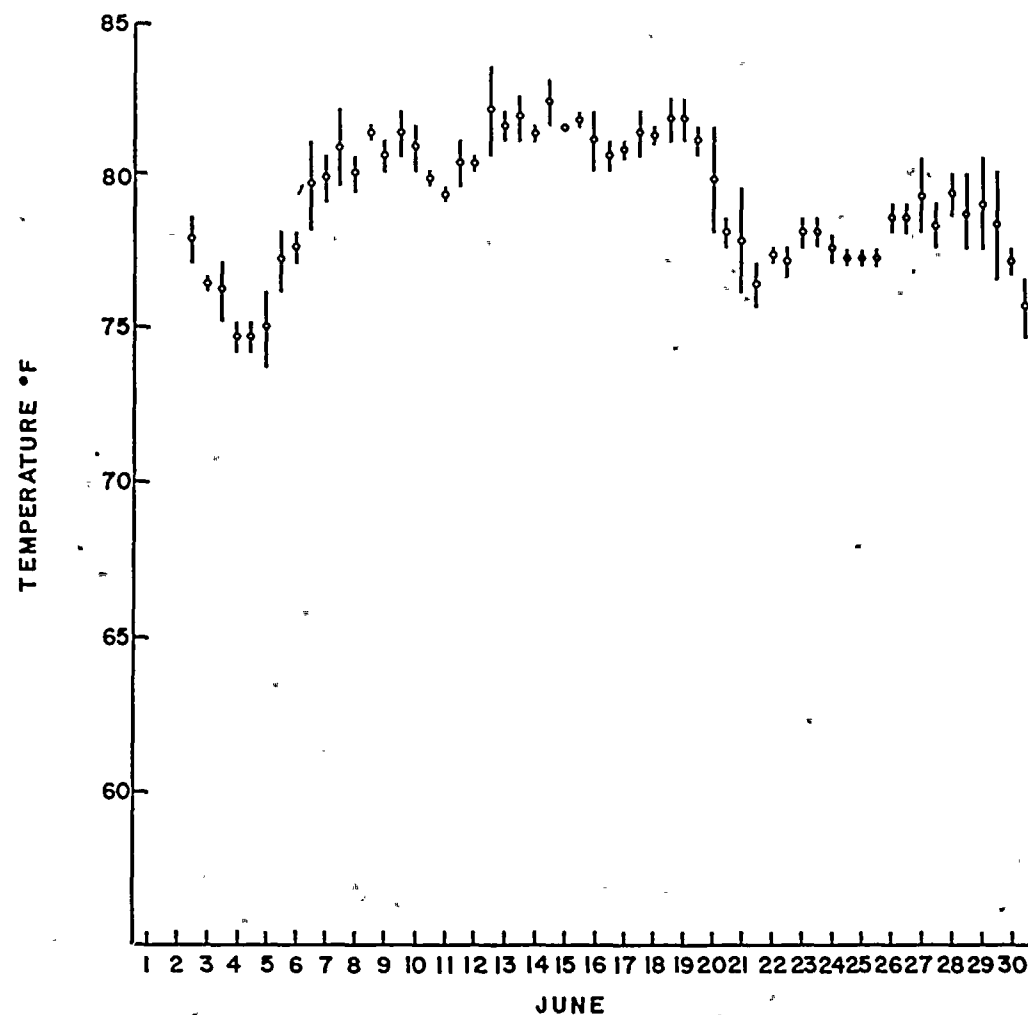


Figure H-2 (continued). Daily range of water temperatures continuously recorded at the St. Lucie Plant discharge structure, 1976.

H-384

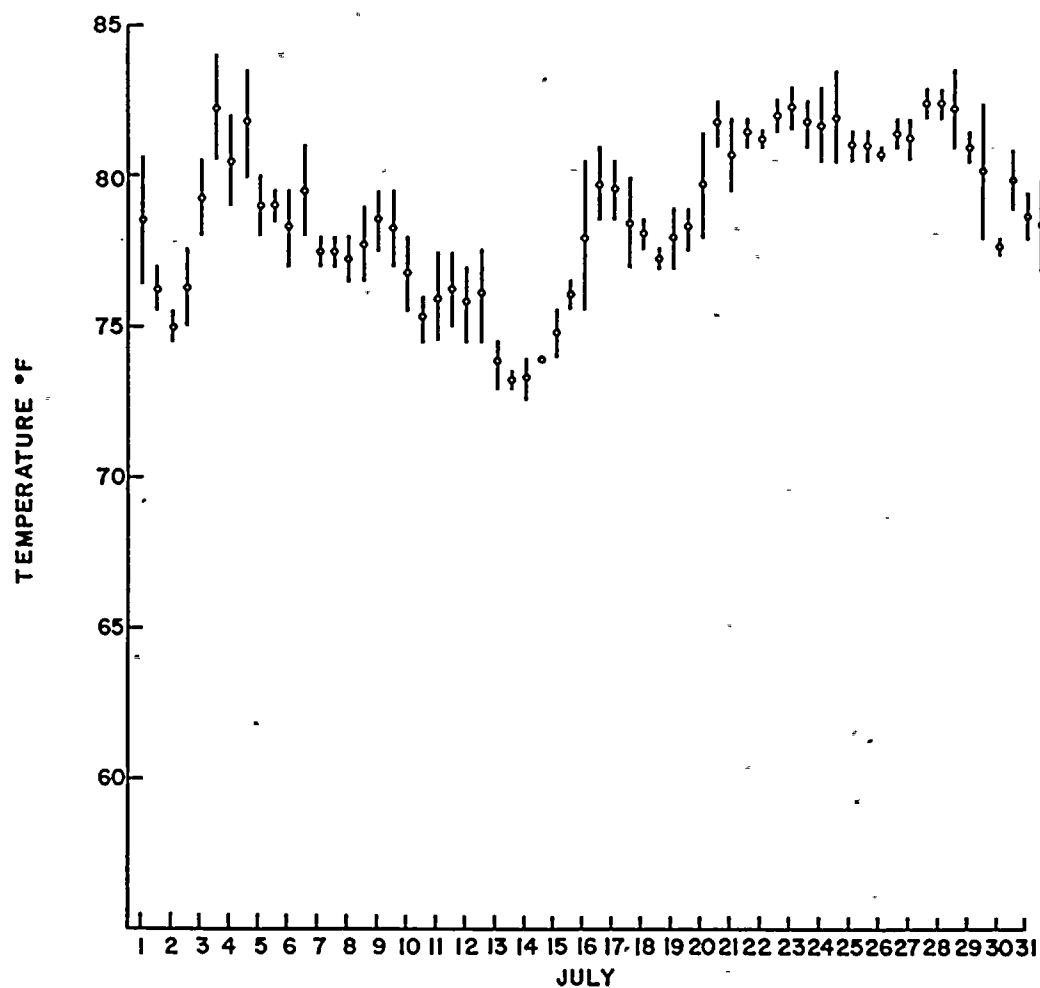


Figure H-2 (continued). Daily range of water temperatures continuously recorded at the St. Lucie Plant discharge structure, 1976.