

MARINE RESOURCE SPECIAL REPORT



A SEA GRANT ADVISORY SERVICE

Virginia Institute of Marine Science Gloucester Point, Virginia 23062

1977 Annual Summary

OYSTER SPATFALL ON SHELLSTRINGS IN VIRGINIA RIVERS
BY
Dexter Haven and Paul Kendall

The Virginia Institute of Marine Science (VIMS) conducts weekly surveys from June through early October to obtain oyster spatfall information. Spat counts are made from oyster shells strung on wire and suspended from stakes on public and private beds. The number of spat on shells are counted each week of the spawning season to determine the potential of a particular area for receiving a strike and to predict the most likely period the strikes will occur. Shells planted just before the period of maximum set have the best chance of getting a good strike.

A moderate or heavy strike on shellstrings usually indicates a significant strike on exposed cultch. However, a good strike on shellstrings in some locations may not always be accompanied by good spatfall on shells on the bottom. Bottom shells are sometimes so fouled by other marine life that no room is left for small spat to attach. Even with a reasonable spatfall, survival on the bottom in saltier waters may be extremely low, due to predators such as drills and blue crabs which eat the small spat.

Usually a light set of spat on shellstrings indicates a poor set on bottom cultch. During certain exceptional years, for reasons only partially understood, a light set on our shellstrings result in an exceptional set on the natural bottom.

The average number of spat which set in one week on the smooth side of 10 shells is tabulated in this report; it is reported as spat-per-shell-per-week. Weekly set is arbitrarily rated as follows: fair, 0.1 to 1.0; moderate, 1.1 to 10; heavy, 11 to 100. As an index of total seasonal spatfall, the weekly sets are summed in this report for each station. In evaluating setting levels, it should be recognized that in certain rivers, such as the Rappahannock and Potomac, the set is typically zero in many sections and only fair in others. Other systems, including the lower James and Piankatank rivers, Mobjack Bay and Seaside of the Eastern Shore, typically receive a moderate or heavy set and as a result, often produce quantities of seed oysters or market oysters.

If shells are to be planted in any region, it is important to plant a week or two prior to peak setting. If shells are planted much earlier, they may become so fouled with marine organisms that larvae will not set. For further information on setting seasons and time to plant shells, contact Dexter Haven, Head, Department of Applied Biology, VIMS.

Included in this report are numbers of oyster spat setting on cultch on the bottom at selected locations in the 1977 season. The data are expressed as numbers of spat per bushel of bottom material collected by an oyster dredge during the fall and winter of 1977-78.

SUMMARY OF SETTING IN THE RIVER SYSTEMS

James River - The public rocks in the James River annually supply over 77% of the seed planted commercially in Virginia. However, rocks in the lower river are now receiving only about 10% as much set as they did prior to 1960. The decline which began after 1960 is thought to be associated with MSX which has reduced brood stocks in the lower river. Other factors such as chlorine associated with the discharge of sewage treatment plants or some other environmental aspect may be involved.

Setting began during mid-July in the lower James, from Miles Watch House to Hampton Flats. It peaked from mid to late August, but in most instances, the maximum weekly set was less than 1.0 spat per week. With only two exceptions in the lower river, the 1977 set totaled lower than that recorded during any of the preceding three years.

In the mid and upper seed area, the pattern of setting differed. It began later, during early August. It peaked during mid to late August with the highest levels ranging from 1.5 to 6.0 spat per shell. Setting was over by early October. With two exceptions, the total seasonal

set in this section of the river was higher in 1977 than during the preceding three years. However, the 1977 levels are still far below those recorded prior to 1960.

Bottom materials dredged in the fall of 1977, after setting had ceased, showed an increase in number of spat per bushel in an upriver direction. Counts per bushel were generally low in the lower river as follows: Nansemond Ridge, 66; Brown Shoal, 34; Naseway Shoal, 124; White Shoal, 314; Gun Rock, 48; and Thomas Rock, 50. In the mid and upper seed area, counts were higher: Wreck Shoal, 166; Point of Shoal, 278; Horsehead, 594; and Deep Water Shoal, 1502. The levels recorded for the lower river were about equal to those recorded for the preceding 3 to 5 years. In contrast, numbers recorded in 1977 for the mid and upper seed areas were higher. At Deep Water Shoal the 1977 set was higher than in any year recorded since 1953.

Poquoson River - At the two stations, setting began the first week in July and peaked at fair to moderate weekly levels in mid-August.

York River - Seven monitoring stations received zero to moderate weekly sets.

Spatfall began the first week in July at VIMS pier and a week or two later at upriver locations. The period of peak set occurred from early to late September.

At Gloucester Point the total spatfall was the highest in six years; upriver, at Claybank, the 1977 set was the best in the last four years.

Bottom cultch collected in the fall of 1977 showed the following numbers of spat per bushel: Green Rock, 52; Page Rock, 8; Aberdeen Rock, 50; and Bell Rock, 176. These 1977 counts were higher than 1976 at every location; the increase was greater upriver.

Mobjack Bay - In Mobjack Bay moderate setting occurred for several weeks at Tow Stake, but for most of the season it was only fair. Setting began with 8.8 spat per shell during the first week in July and continued at lower levels through September. The total seasonal set was higher than in the previous year, but not as high as in 1975.

Data from a station off Brown's Bay are present for only the first half of the season; they showed the same changes from the previous year as were noted at Tow Stake, with a moderate set indicated in late July.

Ware River - Data available for one station here show set starting in mid-July and still in progress in September when monitoring stopped. Mid-season data are missing.

In 1977 setting started three weeks later than in 1976. The magnitude of the 1977 strike was the same as for the first three weeks of 1976.

North River - Two of the three stations received moderate sets. Setting varied, with peak weekly sets of 1.4 at Cedar Point, 0.4 in Blackwater Creek and 2.7 at the head. Spatfall began in the first half of July and was still in progress when monitoring was ended in September. The time of peak set varied at the three stations.

The total 1977 set was higher than observed in 1976 at two of the three stations. It was much lower at all stations in 1977 than it was in 1974 or 1975.

East River - Weekly setting values ranged from zero to heavy. Setting began at both stations during the last half of July and peaked at the Gulf Oil Dock at 12.0 spat the third week of July. It is possible that peak setting occurred at Station 6 during the same period.

Setting levels in 1977 were about equal to or higher than levels recorded for 1976. The high levels at Gulf Oil Dock continue the trend for high setting which has been in progress since at least 1970.

New Point Comfort Area - Three systems were studied in this area: Horn Harbor, Dyer Creek and Winter Harbor. In Horn Harbor and Dyer Creek setting was only fair with many periods showing zero levels. No period could be defined as the peak period. It is noted that fair setting levels have been characteristic of these two systems since 1974.

In Winter Harbor at the public landing, moderate levels of set began in early August and continued through September; this station has received above average sets since 1973. At Crowe's, no set was seen.

Milford Haven - Two locations were studied in this area:

Point Breeze and Stutts Creek. At both locations the weekly
set reached only fair levels with many periods receiving
zero or 0.1 spat per week. Most of the set occurred during
August and September.

Piankatank River - Levels of set were recorded at nine stations ranging from Ginny Point upriver to Three Branches off Gwynns Island. Setting began in this system the second week in July. At most of the stations, the peak set occurred in early to mid-August. Levels of peak set ranged from moderate to heavy with the highest levels occurring down-river at Burton Point where 64 spat per shell were recorded.

Examination of bottom samples taken in the fall of 1977 indicated a good strike on the bottom. The following counts were obtained on bushel samples of bottom substrate: Burton Point, 322; Island Bar, 422; Palace Bar, 408; and Ginny Point, 538. These numbers are well above average for the previous six years at all four stations.

Rappahannock River - Ten stations were studied in the mid and lower river from Punch Bowl to Mosquito Point. At all but the lowest station setting began late in the season in early to mid-August with peaks occurring from mid to late August. The weekly levels of set ranged from zero to heavy with most stations showing only fair levels. The highest set of the river was recorded at Corrotoman Point where 18.9 spat were recorded in one week.

In general, levels of total seasonal set in 1977 were higher than those recorded in 1976.

Counts of spat surviving on bushel samples of bottom cultch in the fall of 1977 were: Drumming Ground, 270; Parott's Rock, 260; Hogg House, 40; Smokey Point, 12; Morattico Bar, 0; and Bowler's Rock, 0. These numbers clearly show a gradient which decreases with distance upriver. The numbers of spat surviving on bottom cultch at two downriver stations showed much improvement over previous years, whereas numbers at two upper stations showed a decline.

Great Wicomico River - Seven stations were studied in this system in 1977. Sporadic setting began in late July and occasionally reached fair levels at most stations, but many weeks showed zero levels over long periods. Because

of the erratic setting pattern, it is not possible to define peak setting periods. Setting in general was higher in 1977 than in 1976 or 1975.

Examination of bottom material dredged in the fall of 1977 resulted in the following counts of spat per bushel: Dameron Marsh, 46; Whaley's West, 52; Crane's Creek, 34; Fleeton, 82; and Haynie Point, 210. This was a slight improvement over recent years.

Dividing Creek - Fair setting occurred here in two weeks with all other weeks showing zero set to give a seasonal spatfall of 0.2 spat per shell, which was less than 1976 or 1975.

Potomac River (Virginia Tributaries) - Eight out of ten locations monitored in 1977 received set. Seasonal spatfall varied from fair to moderate and ranged from 2.1 at Cornfield Harbor to 0.1 at Gum Bar, Great Neck and Coan. With one exception, the setting occurred between mid-August and mid-September.

The 1977 set was better than the 1976 set at eight of the ten locations; at the other two it was the same - zero. The 1977 set was better than the 1975 set at six stations. On our shellstrings at Ragged Point and at Kingcopsico in 1977 we saw the only spatfall recorded in eight years.

Eastern Shore, Bayside - Setting here was fair to moderate; it began in July and was still occurring in September when monitoring ceased. Cherrystone Inlet had the largest spatfall noted; one weekly spatfall there was heavy, and, over the whole season, setting was 34.9 spat per shell.

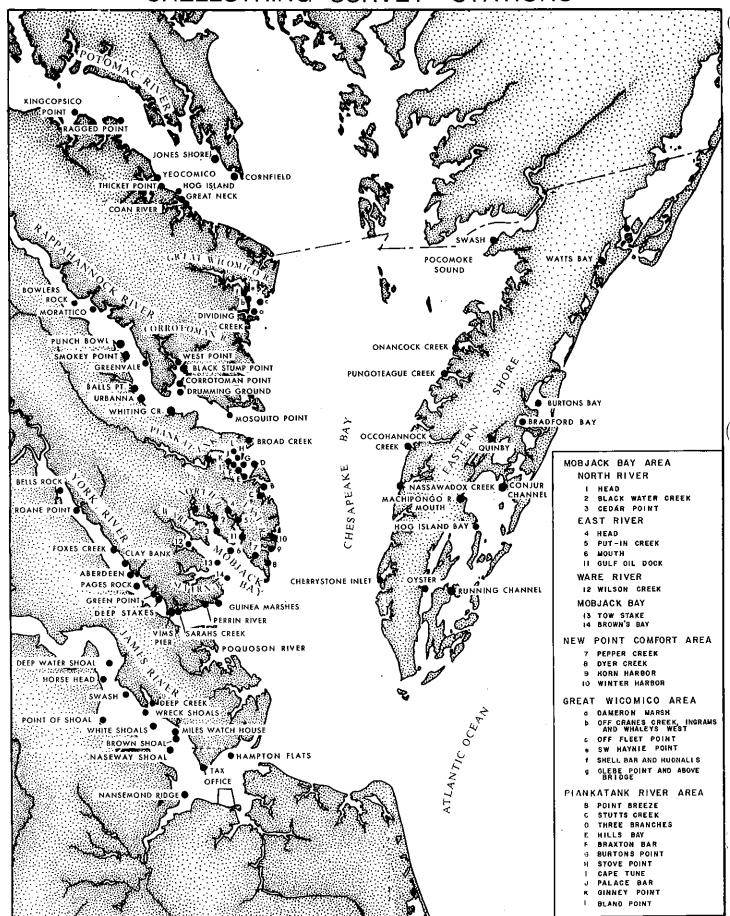
In comparison with past years, some places had more set while others had less; the picture is varied.

Eastern Shore, Seaside - Heavy setting occurred during the season at every location monitored here. Total numbers for the season ranged from 102.4 spat per shell at Quinby Bridge in the Machipongo River to 12.9 on Issac Tump in Hog Island Bay. Peak weekly setting ranged from moderate to heavy.

At three locations setting was an improvement over 1976, and, in most places, it was above the average for the last four years.

Inspectors and Police Boat Captains of the Virginia Marine Resources Commission aided in this survey by changing shellstrings in many of the estuaries. Their assistance is gratefully acknowledged.

SHELLSTRING SURVEY STATIONS



VIRGINIA INSTITUTE OF MARINE SCIENCE Spatfall on Shellstrings* Annual Summary 1974 - 1977

JAMES RIVER

			Hampto	n Flats		Nev	voort New	s Tax Off:	ice		Nansemo	nd Ridge	
1977 Dates Expos	ed**	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
									: .				
Jun 17-27	-		0.0				0.0	0.0	0.0		0.0		0.0
Jun 27-Jul 5	•	0.1	,0.0	0.0	0.0	0.1	,0.0	0.0	0.0	0.0	0.0		0.0
Jul 5-12		0.2	{o.1		٦, ,		{0.7		0.0		0.0		
Jul 12-19		3.2	•	0.2	\1.0	1.2	}	0.4		0.2	0.1		0.3
Jul 19-26	n	0.3	0.2	0.3	ر ,	0.4	0.1		0.4	0.2	0.0	0.0	0.0
Jul 26-Aug 2	2	0.0	0.1	0.3	0.2		0.5	0.2	0.3	0.3	0.1	0.0	
Aug 2-8		0.3		0.1	0.6	0.5	0.4	0.2	0.7	0.4	0.0	0.0	0.1
Λug 8-16			1 /	0.3	0.8	2.9	0.4	0.4		0.7	0.2		0.0
Aug 16-23 Aug 23-30)	1.4	l, ,	0.7	,0.6	,1.9	1.0	0.6	1.2	1.2		,0.1
-	6	0.9	2.0	\1.7	0.5	{4.4	4.6	0.0	0.4))		1.6
Aug 30-Sep 6 Sep 6-12	U	6.2		ر 1 1	2.5		3	1.8	1.3	}o.8	0.6	0.4)
Sep 0-12 Sep 12-19			5.2	1.1	0.2	4.1		2.5	1	1	1515	0.4	0.2
Sep 19-26		0.7		1.3	l 2 7	9.6	1	9.5	0.5	,	٠,		0.1
Sep 26-Oct 5	5		1.6	4.4	2.7	 1	{0.6	0.1	1.0		{2.2	1.1	0.1
вер 20-ось 3	,	0.1	1.4	}	,	1.6	,	0.8	1.0		}		
TOTALS		12.0	10.4	9.7	9.2	25.4	9.2	16.9	6.2	3.8	4.4	1.9	2,5
4000				Shoal			Miles W	atch House	<u> -</u>		White	Shoal	
1977 Dates Expos	ed**	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 17-27			0.0)	0.0			1				
Jun 27-Jul 5	5	0.2	0.0	0.0	0.0	0,0	0.0	0.0	0.0			0.0	
Jul 5-12		0.2	10.0		1	0.1	,0.0	0.0	(0.0			0.0	0.0
Jul 12-19			{0.2	0.9	0.0	0.2	{0.0		·			0.0	 .
Jul 19-26		0.2	2.8	0.3		0.6	1	0.0				0.0	0.1
Jul 26-Aug 2	}		0.4	0.2	0.0 0.1	0.2	0.0	0.1	0.0	_		0.1	
Aug 2- 8		2.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	Sampled		0.0	0.0
Aug 8-16		1.0	2.0	0.0	0.5	0.1	0.0	0.0	0.0	<u>7</u>		0.0	0.1
Aug 16-23		0.9	1.6	0.8	0.7		0.0	0.0	0.5	ĬĮ.	0.6	0.1	3.0
Aug 23-30		1	5.6	0.5	0.7	0.7	0.2	0.2	0.5		2.7	1.3	0.6
Aug 30-Sep 6		6.4	1.8	0.8	0.6		0.8	0.1	0.5	Not	2.0	0.2	6.0
Sep 6-12		4.3	3.6	3,9	0.5		1.6	0.1	0.2	~	5.6	0.5	4.1
Sep 12-19		1.4	3.4	6.7	0.4	0.4	0.8	0.1	0.2		3.4	1.7	0.4
Sep 19-26			2.4	3.2	0.5	0.2	1.8	0.4)		2.4	2.6	0.0
Sep 26-Oct 5		0.0	3.6	0.3	0.1	0.6 0.0	0.2 0.0	0.6	0.0		1.0	2.3	0.7
F0					011	0.0	0.0	0.0	0.0		0.4	0.0	0.8
TOTALS		16.6	27.4	17.6	3.7	3.3	5.5	1.6	1.9		18.1	8.8	15.8
													22.0
1077 Dahas P	*4.4	-	Wreck			W:	arwick Ri	ver Mouth			Point of	Shoa1	
1977 Dates Expose	.d.~	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 17-27		0.0	0.0	0.0	0.0				0.0				
Jun 27- Jul 5	5	0.0	0.0	0.0	0.0				0.0	0.0			- -
Jul 5-12		0.3	1		0.0				0.0	0.0	,0.1	0.0	0.0
Jul 12-19		0.6	0.0	0.0	0.0				0.0	1.3	{0.0		0.0
Jul 19-26		0.0	1.3	0.0	0.0					0.1	1	0.0	0.0
Jul 26-Aug 2		0.1	0.5	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Aug 2-8		0.6	0.1	0.0	0.0	0.3		0.0	0.0	0.4	0.1	0.0	0.1
Aug 8-16		0.3	0.0	0.1	0.4	0.5	a. D	0.2	0.0	0.1	$\{0.2$	0.0	0.3
Aug 16-23		1.1	0.0	0.2	0.7	0.4	ampled	0.1	2.2	0.5	1	0.2	5.7
Aug 23-30		1	1.6	0.0	1.5	1	<u>e</u>	0.3	0.3	1.5	1.3	0.0	2.6
Aug 30-Sep 6		0.2	2.2		1.1	{0.0	ry.	0.1	0.2	0.6	1.0	0.1	3.5
Sep 6-12		0.4	0.8	0.0	0.1	³o.o	Not	0.0	0.2	1	0.6	0.0	1.6
Sep 12-19		0.2	4.0	0.7	0.1	0.0	. 7	0.0	0.0	'0.0	0.0	0.0	0.8
Sep 19-26		0.3	1,0	1.1	0.0	1.0		0.1	0.0	0.0	1.0	0.0	0.1
Sep 26-Oct 5		0.0	0.6	0.1	0.2	0.0		0.1	0.0	0.0	0.0	0.2	0.1
Oct 5-27					0.0			0.2	0.0 0.1	0.2	0.0	0.0	0.1
TOTALS									0.1				
TOTALS		4.1	12.1	2.2	4.1	2.2		1,1	3.0	4.7	4.3	0.5	14.9
											-		,

General Guide to Setting:

0.1 to 1.0 spat per shell = fair 2 to 10 spat per shell = moderate 11 to 100 spat per shell = heavy

^{*} Shows spat per shell (smooth side only).

** Dates in other years were approximately the same.

• Not sampled in previous years.

		Mulharry	Cuach		Uoracho	nd Chanl			Deepwate	er Shoal	,
1977 Dates Exposed**	1974	Mulberry 1975	1976 1977	1974	1975	ad Shoal 1976	1977	1974	1975 ·	1976	1977
Jun 17-27 Jun 27-Ju1 5	 0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	 0.0	 0.0	0.0	0.0	0.0	 0.0
Jul 5-12	0.4)	0.0 0.0	1.1)	0.0	0.0	1.0	}0.0	0.0	0.0
Jul 12-19 Jul 19-26	0.0 0.1	}0.0	0.0	0.1	}0.0	0.0	0.0	0.0		0.0	0.0
Jul 26-Aug 2	0.1	0.0	0.0 0.0 0.0 0.0	0.0 0.6	0.0	0.0	0.0 0.0	0.0	70.0 _0.0	0.0	0.0
Aug 2-8	0.6	0.0	0.0 0.2	0.3)	0.0	0.0	0.1]	0.0	0.0
Aug 8-16 Aug 16-23	0.8 3.2	0.0 0.0	0.0 4.0	0.5	$_{0.6}^{0.3}$	0.3	1.1	0.5	$_{0.5}^{0.0}$	0.0	0.6
Aug 23-30)	0.2	0.1 0.0 0.0 1.7	0.6	0.8	0.1 0.0	0.5 2.3	0.3 }	0.6	0.0	0.4 1.5
Aug 30-Sep 6	0.2	0.4	0.0 2.4	, }0.0	0.2	0.0	0.4	}0.0	0.0	0.0	0.4
Sep 6-12 Sep 12-19	0.0	0.0 0.8	0.4 0.1 0.2 0.0	0.0	. 0.0	0.1	0.2	0.0	0.0	0.1	0.2
Sep 19-26	0.0	0.0	0.0 0.1	0.0	0.4 0.6	0.7 0.2	0.1 0.0	0.0	0.0	0,2. 0,2	0.3 0.1
Sep 26-Oct 5	0.0	0.0	0.0 0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0
TOTALS	5.9	1.5	0.7 8.5	3.2	2.3	1.5	4.6	2,2	1.1	0.8	3.5
		POOU	OSON RIVER						YORK	RIVER	
•		Lloyds Bay	Tom Banks C	·ava •	•					rry Pier	
1977 Dates Exposed**		1977	1977	<u>love</u>	1	.977 Dates	Exposed**	1974	1975	1976	1977
Jun 12-19		0.0	0.0			Jun 13-	-20		0.0	1	
Jun 19-28		0.0	0.0			Jun 20-	-27	`	0.0	}0.0	0.0
Jun 28-Jul 5 Jul 5-9		0.0	0.0 0.1			Jun 27- Jul 5-		. }	0.1	0.0 0.2	1.0
Jul 9-19		0.1	0.3			Jul 12-		.) 0.7	۰.۰ ر		1.2
Jul 19-25		0.7	0.3			Ju1 20-		0.2	0.9	0.7	0.q
Jul 25-30 Jul 30-Aug 6		0.1 0.0	0.2			Jul 28- Aug 4-		0.0	0.1 0.0	0.0	1.0 0.0
Aug 6-13		0.0	0.0			Aug 11-		l l	0.0	0.2	<u> </u>
Aug 13-22		0.9	3,4			Aug 18-		}0.0			}0.4
Aug 22-Sep 2 Sep 2-10		0.6 0.2	0.9 0.9			Aug 26- Aug 31-		0.3	3.0	0.1	0.3
Sep 10-17		0.1	0.3			Sep 8-	.13	8.0	0.0	0.3	6,7
Sep 17-0ct 1		0.1	0.8	•		Sep 13-		2.2	3.6	0.4	6.6
TOTALS		2.8	7.2			Sep 20- Sep 27-		0.4 2.0	5.0 0.0	0.1 0.1	3.8 1.0
						Oct 4-				0.0	
				•		TOTAL		14.6	12.7	2.1	22.9
		Deep Sta	kes		Green	Rock	-		Pages	Rock	
1977 Dates Exposed**	1974		1976 1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 13-20	0.0		0.0	0.0			0.0	0.0			0.0
Jun 20-27 Jun 27-Jul 5	0.0 0.0		}0.0	0.0			}0.0	0.0			}0.0
Jul 5-12	0.0		0.0	0.0			}	0.0 0.0			J 0.0
Jul 12-20	0.0		0.2				0.1	0.0			0.1
Jul 20-28 Jul 28-Aug 4	0.0 0.0	-	0.0 0.0	0.0 0.0			0.4	0.0			0.1
Aug 4-11	0.1	Sampled	υj	0.0	led	-e-) 0.0	0.0	e d	eq	٥٠١
Aug 11-18 Aug 18-26	0.0 0.4	amb	} _{0.8}	0.0	Sampled	[qii	0.4	0.0	Sampled	μp1.	0.1
Aug 26-31	١ ",	t S		ን 0.4	Š	Not Sampled	7 0.5 0.4	0.2	Sa	Not Sampled	0.5 0.3
Aug 31-Sep 8 Sep 8-13	0.6	Not	≗)	}o.o	Not	Not)	0.4	Not	lo t))
Sep 13-20	0.0		}1.2	ا 0.2			1.1	٠,	4	~	_1.0
Sep 20-27	0.0	•	ĺ.,	0.0			{	0.2 0.0			1
Sep 27-Oct 4 Oct 4-11	0.4		1.8	0.0			} 0.4	0.0			\\ 2.0
710m + x 0											· (

0.6

3.3

0.8

4.2

4.5

μ. . .

1.5

TOTALS

	Aberdeen Rock		Clay	bank			Foxes	Creek	
1977 Dates Exposed**	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 13-20	0.0	0.0	0.0				0.0		7
Jun 20-27)	0.0	0.5				0.0		}0.0
Jun 27-Jul 5	} 0.0	١ ، ، ،	١ ٥.٥				٦ ٥.٥)
Jul 5-12	٥.0	}0.0	} 4.4	0.0			}0.2		0.1
Jul 12-20	0.0	0.0	0.0 ر	0.0			0.0		0.0
Jul 20-28	1.1	0.0	0.0	0.0			0.0	0.0	0.0
Jul 28-Aug 4	0.0	0.0	0.0			าส	0.0		
Aug 4-11	}	0.0	0.0	0.0		Sampled			0.0
Aug 11-18	≻0.3					B	0.0	0.0	_ 0.0
Aug 18-26) _{1.0}	0.0	0.0	0.0	0.0	됞	0.0	0.0	>0.5
	1.0	0.0	0.0	0.0	0.7			0.0	f 0.5
Aug 26-31	0.5	0.2	0.0	0.0	0.0	Not		0.0	0.2
Aug 31-Sep 8)	١,,	0.0	0.0	2.8	Ž	0.0	0.0	0.5
Sep 8-13	}7.0	}0.4	0.0	0.0	2.0		0.0	0.0	1.1
Sep 13-20) `	0.2	0.0	0.0	0.8		0.0	0.0	0.4
Sep 20-27	1	0.0	0.2	0.0	0.4		0.2	0.0	0.4
Sep 27-Oct 4	}	0.0	0.0	0.1			0.0	0.0	
Oct 4-11	· • • • • • • • • • • • • • • • • • • •								
				0.1				0.0	
TOTALS	9.9	0.8	5.1	0.2	6.7		0.4	0.0	3.2

MOBJACK BAY

WARE RIVER

			Stake ion 13	<u>-</u>			wns Bay on 14	-			on's Cree! on 12	k
1977 Dates Exposed**	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 13-20 Jun 20-28 Jun 28-Jul 2 Jul 2-11 Jul 11-18 Jul 18-28 Jul 28-Aug 2 Aug 2- 8 Aug 8-15 Aug 15-25 Aug 25-Sep 2 Sep 2- 9 Sep 9-20 Sep 20-30	Not Sampled	5.8 0.2 0.1 0.0 0.0 \$33.6 \$4.8	0.0 0.2 0.1 8.5 2.1 0.3 0.6	0.0 0.0 8.8 0.1 1.3 0.0 0.2 0.0 2.4 }1.3	Not Sampled	0.0 0.1 2.0 5.1 0.4 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.1 0.1 	0.0 0.0 0.0 0.0 2.3 0.2 0.7 0.0 0.0	 2.3 0.0 0.0 0.2 {0.0	0.8 7.3 24.0 0.3 0.0 0.0 0.0 \$\) \$\] \$\] \$\] \$\] \$\] \$\] \$\] \$\] \$\]	0.0 2.7 1.6 3.7 2.8 7.9 0.3	0.0 0.0 0.7 1.5 5.8
Sep 30-Oct 7		{ 0.0	0.1						0.0	0.1	0.2	
TOTALS		47.1	12.5	16.1		10.8	0.2	3.2	2.5	49.3	19.2	13.0

NORTH RIVER

			Point ion 3				ter Creek ion 2				ad ion 1	
1977 Dates Exposed**	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 14-21	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
Jun 21-28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
Jun 28-Jul 5	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.0	٦ ٥.٥
· Jul 5-12	0.5	0.0	0.7)	0.2	0.0	0.1	ን °.°	5.4	0.0	2.4	}o.o
Jul 12-19	0.0	0.0	0.0	}0.1	0.2	0.1	0.1	≻0. 1	0.0	0.1	0.5	ر
Jul 19-26	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.5	0.0	0.0	
Jul 26-Aug 2	0.0	0.0		0.6	0.0	0.0		0.0	0.1	0.3	-~	0.0
Aug 2- 9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	5.2	0.0
Aug 9-15	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.8	
Aug 15-23	2.1	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.1	2.8	0.0
Aug 23-30	0.0	0.0	0.0	0.6	0.0	0.2	0.0	0.0	0.0	0.0		2.7
Aug 30-Sep 6	1.8	3.8	0.0	0.0	1.4	2.0	0.0	0.0	0.6		0.0	0.0
Sep 6-13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		13.8	0.0	0.1
Sep 13-20	0.0	0.2	0.1	0.0					0.2	0.4	0.0	0.0
Sep 20-27	0.2	0.0	0.0		0.0		0.0	0.2	0.0	0.0	0.0	1.1
3ep 20-27	0.4	0.0	0.0	1.4	0.0		0.0	0.4	0.0	0.0	0.0	1.2
TOTALS	5.9	4.9	1.0	3.2	2.0	2.3	0.2	0.7	7.8	14.8	15.2	5.2

EAST RIVER

		Mo	uth			Gulf O	11 Dock	
		Stat	ion 6			Stati	on 11	
1977 Dates Exposed**	1974	1975	1976	1977	1974	1975	1976	1977
Jun 7-14	0.0	0.0	0.0		0.4	2.0		
Jun 14-21	0.3	0.1	0.1		0.6	2,8	0.0	0.0
Jun 21-28	0.0	0.0			0.2	6.7	1.8	0.0
Jun 28-Jul 5	0.2	7.6	2.6		0.0	6.5	4.1	0.0
Jul 5-12	0.1	3.8	2.3		16.2	5.9	4.3)
Jul 12-19	1.6	3.6	5.6	0.0	0.6	2.9	1.3	}o.o
Jul 19-26	0.1)))	3.9	1.5		12.0
Jul 26-Aug 2	0.0	1.0	≻0.8	}3. 0	0.4	0.2	5.9	0.0
Aug 2- 9	2.1	. į	Į)	1.6	1.6		0.0
Λug 9-15	0.0	٠ ل	ι,	<u> </u>	0.0	1.4	0.0	2.8
Aug 15-23	0.2	0.9	}0.1	·	0.2	4.7	0.0	11.6
Aug 23-30	0.2	100	3.0	≻ 4.5	0.4	9.7	0.0	1.6
Aug 30-Sep 6	1.8	≻9.0	1.2		2.0	. 15.8	0,0	0.2
Sep 6-13	0.4	8.4	· ` .	J	0.0	0.8	0.2	1.7
Sep 13-20	0.6	5.6	≻1.1	Ĺ	0.0	0.4	0.0	1.6
Sep 20-27	0.4	0.4)	}7.6	0.0	0.0	0.0	3.6
Sep 27-0ct 4			0.0	J			0.0	
TOTALS	8.0	40.4	16.8	15.1	26.5	62.9	17.6	35.1

NEW POINT COMFORT AREA

	Wi	nter Harb.	or, Crowe	e's	Ho	rn Harbo	r, Mitchar	n's		Dver	Creek	
		Stati	on 10				:ion 9			-	ion 8	
1977 Dates Exposed**	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 14-21		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jun 21-28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jun 28- Jul 5	0.0	0.0	0.1	_ 0.0	0.0	0.0	0.0		0.0	0.0	0.0	. 0.5
Jul 5-12	0.0		0.0)	0.0	0.0	0.0)	0.0	0.0		٠٠٠)
Jul 12-19	0.5	0.0	0.0	}0.0	0.7	0.0	0.0	}o.o	0.1	0.0	0.1	} 0/
Jul 19-26	0.0	0.0	0.0	⁷ 0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	· / <u>\</u>
Jul 26-Aug 2	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.4
Aug 2- 9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aug 9-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
, Aug 16-23	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1
Aug 23-30	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.1	0.0
Aug 30-Sep 6	0.2	0.0	0.0	0.0	1.0	0.0	0.0	0.1	1.0	0.2	0.0	0.0
Sep 6-13	0,6	0.0	0.0	0.0	0.0	0.0	٦	0.2	0.2	0.0	0.0	
Sep 13-20	0.0		0.0	0.0	0.0	0.0	≻0.2	0.0	0.0	0.2	0.0	0.0
Sep 20-27	0.0		0.0	0.0	0.0	0.0	J ***	0.4	0.0	0.0	0.0	0.0
TOTALS	1.3	0.0	0.1	0.0	1.7	0,2	0.2	1.0	1.4	0.4	1.4	1.0

		Winter		
	Pub1	ic Landing	- Stati	on 10
1977 Dates Exposed**	1974	1975	1976	1977
Jun 14-21	.0.0	0.0	0.0	0.0
Jun 21-28	·	0.0	0.0	0.0
Jun 28-Jul 5	1.6	7.0	0.0	0.0
Jul 5-12	0.6	2.1	0.0)
Jul 12-19	19.9	6.3	0.2	0.0م
Jul 19-26	0.1	30.7	0.1	0.1
Jul 26-Aug 2	1.6	1.4	~-	7.0
Aug 2-9	0.0	0.4	0.2	
Aug 9-16	0.9	4.3	0.0	3.8
Aug 16-23	0.0	4.1	7.6	2.0
Aug 23-30	5.8	1.9	1.1	3.7
Aug 30-Sep 6	2.4	252.0	.0.0	4.2
Sep 6-13	7.4	58,6	0.1	3.6
Sep 13-20	0.4	35.6	0.0	2.8
Sep 20-27	2.6	16.2	0.0	7.8
TOTALS	43.3	420.6	9.3	35.0

MILFORD HAVEN

			Breeze ion B				Creek	
1977 Dates Exposed**	1974	1975	1976	1977	1974	1975	1976	1977
Jun 13-20	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0
Jun 20-28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jun 28-Ju1 5	0.0	0.2	0.0		0.0	0.1	0.0	0.0
Jul 5-11	0.0		0.0	0.0	0.4	0.2	1.9	٦ ٥.٥
Jul 11-18	1.6	1.8			0.3	3.6	±•7	≻0.0
Jul 18-25	0.0	0.3			0.0	0.1	0.0	J _{0.0}
Jul 25-Aug 1	1.0	0.0			0.1	0.3		0.0
Aug 1- 8	0.0	0.3		0.1	0.0	0.0	0.0	0.3
Aug 8-15	0.1			0.5	0.0	0.0	0.2	0.2
Aug 15-22			0.5	}	0.0	0.0	0.1	0.0
Aug 22-29	0.0	- -	0.0	}0 . 2	0.0	0.0	0.0	0.5
Aug 29-Sep 6	0.5		0.0	0.1	1.8	0.2	0.0	0.1
Sep 6-12	0.2	1.8	0.0	0.0	0.0	0.6	0.0	0.1
Sep 12-19	0.0	0.4	0.0	0.6	0.0	0.2	0.0	
Sep 19-26	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0 0.4
TOTALS	3,5	4.8	0.5	1.5	2.8	5.3	2.2	1.6

PIANKATANK RIVER

		Three B	ranches Lon D				s Bay Ion E				n Point	
1977 Dates Exposed**	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 13-20 Jun 20-28 Jun 28-Ju1 5 Jul 5-11 *ul 11-18 ()1 18-25 Jul 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 15-22 Aug 22-29 Aug 29-Sep 6 Sep 6-12 Sep 12-19 Sep 19-26	0.0 0.0 0.0 0.5 1.7 0.0 0.2 0.0 0.0	0.0 0.4 0.0 0.0 0.0 0.4 0.6 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.2 0.0 0.1 0.0 4.3 0.1 0.0 0.0	0.2 0.0 0.0 1.0 1.5 0.0 0.2 0.0 0.0 0.0	0.0 0.5 0.3 0.4 0.2 0.1 0.0 0.1 1.0 3.4 	Not Sampled	0.0 0.0 0.0 1.1 0.7 0.2 0.9 0.6 0.7 0.0 0.0	0.0 0.0 0.1 1.4 0.8 2.8 0.1 0.1 0.0	0.0 1.1 0.8 0.6 1.9 0.1 0.2 0.0 1.5 1.6 2.2 0.0 0.0	0.0 0.0 0.0 0.2 0.7 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 64.0 0.4 0.0 }0.0
TOTALS	3.6	1.4	0.3	5.4	3.1	6.6		4.5	5.3	10.0	0.9	64.4

			on Bar ion F				Point ion H				Tune ion I	
1977 Dates Exposed**	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 13-20		0.0				0.0	0.0	0.0		0.0	0.0	0.0
Jun 20-28		0.3				0.0	0.1	0.0			0.0	0.0
Jun 28~Ju1 5		0.3				0.6	0.1	0.0		1.7	0.1	0.0
Jul 5-11		0.0						0.0		6.3	0.0	0.0
Jul 11-18		0.6				0,6					0.0	0.6
Jul 18~25	ð	0.2	eď		ed		0.0		ਚ		1.0	1.2
Jul 25-Aug 1	Ĭ.	0.0	Ĭ		Ę	0.2	0.0		ľě	0.1	7-	
Aug 1-8	Ħ	0.0	Samplo		amp1	0.1	1.0		Pr Pr	0.0	0.1	0.2
Aug 8-15	Š		လိ		ro ro)		Sar	0.0	``	
Aug 15-22	Not		ň) .	ñ		0.7	0.2		1.0	}	3.0
Aug 22-29	ž	7.2	Not	0.0	Not		`	10.2	Not	2.8	₹	
Aug 29-Sep 6		0.3		0.1		0.0	0.0	}o.o	~	0.9	0.0	0.0
Sep 6-12				0.8	•	. 0.4	0.0	0.0			, ,	0.0
Sep 12-19						. 0.4				0.2	0.0	0.0
Sep 19-26							0.0			0.0	0.0	
2-1 22 20							0.0	0.3		. 	0.0	
TOTALS		8.9	•	0.9		1.9	1.9	0.5		13.0	1.2	5.0

•		Bland Stat:				Palac State	e Bar Ion J			Ginney	Point Ion K	(
977 Dates Exposed**	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 13-20			0.0		0.1	0.0	0.0		0.0	0.0	0.0	0.0
Jun 20-28			0.0		0.0	0.5	0.0	0.0		0.8	0.0	0.0
Jun 28-Jul 5 Jul 5-11			0.0 0.0		0.0 1.8	5.6 3.9	0.1 0.0	0.0 6.9	0.0 0.3	2.9 7.5	0.0 0.1	
Jul 11-18			0.0		1.7	2.0	0.0	0.4	2.0	1.2	0.0	
Jul 18-25	þ	P	1.9		0.9	0.0	3.0	0.3	3.0	0.0	0.7	0.0
Jul 25-Aug 1	ψŢ	ďά			3.2	0.0	0.0	22.8 5.6	3.5	0.0	1.9	0.8
Aug 1- 8 Aug 8-15	Sampled	Sampled	0.6 		1.5 0.3	0.0	0.0	23.1	1.5 0.4	2.3	1.0	1.5 28.2
Λug 15-22	Not	Not		0.4	0.0	1.2	}0.3	0.3	0.0	9.6	}0.0	0.0
Aug 22-29	ž	ž	}0.0	0.1	0.0	3.0	}0.0	0.0	0.4		0.0	ر آ
Aug 29-Sep 6 Sep 6-12			٥.0	0.0 0.1	0.8 0.2	0.2 2.0	٥.٥	0.0	0.0 0.2	0.0 1.6	0.0	}0.0
Sep 12-19			0.0	0.0		0.0	0.0	0.1	``	1.4	0.0	0.2
Sep 19-26			0.0	0.0		0.2	0.0	0.1	}0.2	0.0	0.0	0.0
TOTALS			2.5	0.6	10.5	18.6	3.4	59.6	11,5	27.3	3.7	30.7
				-	RAPPAHANNO	OCK RIVER						
		Lawson's		•			D-d-+			tib de de de	Cussil	
977 Dates Exposed	1974	Mosquit 1975	1976	1977	1974	1975	an <u>Point</u> 1976	1977	1974	1975	1976	1977
Jun 13-20		0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	
Jun 20-27		0.5	0.0	0.0	0.0	2.3	0.0	0.0			0.0	
Jun 27-Jul 5 Jul 5-11		0.4 8.4	0.0 0.0	0.0 0.0	0.0 0.0	0.5	0.0 0.0	0.0 0.0			0.0 0.0	
Jul 11-18		0.0	0.0	0.0	0.0	0.4	0.0	0.0			0.0	0.0
Jul 18-25	펕	0.0	0.0	0.2	0.1	0.2	0.0	0.0	귳	퓝	0.0 0.0	0,0
Jul 25-Aug 1 Aug 1-8	Sampled	0.1	0.0 0.2	0.0 0.1	0.0 0.0	0.0 0.0	0.3	0.0 0.1	Sampled	Sampled	0.5	8
Aug 8-15	ag.	0.0	0.7	2.0	0.0	3.4	1.3	18.9	Sah	San	0.0	0.0
Aug 15-22	Not S	0.0 2.6	0.2	1.8 1.2	0.0	0.0	0.1 0:4	14.7 3.9	Not :	Not :	0.1	0.1 0.4
Aug 22-29 Aug 29-Sep 5	Ŋ	2.0	$\begin{array}{c} 0.1 \\ 0.0 \end{array}$) 1.2	0.2 0.2	4.8 2.4	0:4 0:5) 3,3	ă	ž	0.1	0.4
Sep 5-12		2.8	0.2	3.0	·	1.2	0.0	3.0			0.0	0.4
Sep 12-19		1.2	0.0	ي ر	0.8	0.2	0.0	ر 0.4			$0.0 \\ 0.1$	1.5 0.0
Sep 19-26 Sep 26-Oct 3		0.0	0.0 0.1	0.4	0.0	 	0.0					
TOTALS		18.2	1.5	8.7	1.3	15.4	2.7	41.0		,	0.8	2.4
a e e						 Canan	· .			Cross	nua1 -	
977 Dates Exposed**	1974	1975	Point 1976	1977	1974	1975	Point 1976	1977	1974	1975	nvale 1976	1977
Jun 13-20				0.0			0.0	0.0	0.0	0.0	0.0	0.0
Jun 20-27 Jun 27-Ju1 5		*.	0.0	0.0				0.0 0.0	0.0 0.0	2.5 0.8	0.0 0.0	0.0 0.0
Jul 5-11	1		0.0					0.0	0.0	7.0		0.0
Jul 11-18	•		0.0	0,0	,		0.0	0.0	0.0	0.0		70.0
Jul 18-25 Jul 25-Aug 1	71		0.0 0.0	0.0	,		0.0 0.0	0.0	0.0	0.0 0.0	0.0 0.0	} o.o
Aug 1-8	Sampled	Sampled	0.0		Sampled	led			0.0	0.0	0.0	۰.۰ ر
Aug 8-15	į	朝	0.0	0.5	dime	Sample	0.1	0.4	0.9	0.0	0.1	0.2
Aug 15-22 Aug 22-29			0.0	0.1			0.1 0.0	0.0 0.1	0.0 0.4	0.0 0.0	0.1	0.0 0.2
Aug 29-Sep 5	Not	Not		0.6	Not	Not	0.0	0.3	0.0	3.0	0.2	ን "
Sep 5-12			0.0	0.1			0.0	0.1		3.8	0.2	0.7
Sep 12-19 Sep 19-26			0.0 0.0	0.2	•		0.0 0.0	2.0 0.0	0.0	7.8	0.1 0.0) 0.2
Sep 26-Oct 3											0.1	
TOTALS			0.0	1.5			0.2	2.9	1.3	24.9	0.9	, ^

(-			Creek			Smokey Point	•	Waterview •		Punci	hbow1	
7 Dates Exposed**	1974	1975	1976	1977		1977	•	1977	1974	1975	1976	1977
Jun 13-20			0.0			0.0		0.0				
Jun 20-27			0.0			0.0		0.0			0.0	0.0
Jun 27-Ju1 5			0.0			0.0		0.0				0.0
Jul 5-11						0.0		0.0			0.0	0.0
Jul 11-18			0.1			0.0					0.0	0.0
Jul 18-25			0.1	0.0		0.0		0.0			0.0	
Jul 25-Aug 1	Sampled	Sampled	0.0	0.0		0.0		0.0	יסי	ą	0.0	.0.0
Aug 1- 8	Ţ.	T.		0.0		{0.0		0.0	Sampled	Sampled	0.0	{0.0
Aug 8-15	ä	Æ		0.3		0.0		0.0	윩	昏	0.0	•
Aug 15-22		S	0.0	0.0				0.0	S.	Sa	0.0	0.1
Aug 22-29	Not	Not	0.0	0.1		0.0		0.2	Ψ.		0.0	0.0
Aug 29-Sep 5	z	z	0.0	0.3		0.0 0.2		0.1	Not	Not	0.0	0.3
Sep 5-12			0.0	0.3		0.6		0.3			0.1	0.3
Sep 12-19			0.0	0.6		1.3		0.3				0.0
Sep 19-26			0.0	0.1		0,2		0.0			0.0	7.0
Sep 26-0ct 3								0.1			0.0	
TOTALS			0.1	1,7		2.3		1,0			0.1	7.7
											***	,
• •	•				GREAT WI	COMICO RIVER			-			
		Damero: State	n Marsh Ion a			Cranes (Statio					Point ion c	
1977 Dates Exposed	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 6-13	0.0	0.0	0.0		0.0	0.1	0.0		0.0	0.0	0.0	
Jun 13-20	0.0	0.0	0.0		0.0		0.0		0.0		0.0	
Jun 20-28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0		0.0
Jun 28~Jul 5	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0		0.0
Jul 5-13	0.0	. 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jul 13-18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
/ Jul 18-25	0.0	0.0	0.0	. 0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2
Jul 25-Aug 1	0.0	0.1	0.0	0.0	0.4	0.2	0.1	0.0		0.0	0.0	0.2
Aug 1- 8	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.4	0.1	0.0	0.0
Aug 8-15	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Aug 15-22	0.2	0.0		0.0	0.2		0.0	0.0	3.9	0.0	0.0	0.0
Aug 22-29	0.0	0.0	0.0	0.4	0.0		0.0	0.1	1.0	0.0	0.0	0.7
Aug 29-Sep 5	0.0	0.0			0.0	0.0	0.0	0.4	0.0		0.0	0.2
Sep 5~12	0.0	0.0	0.1	0.0	0.2	0.0	0.1	1.6	0.4	0.6	0.0	0.5
Sep 12-19	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Sep 12-26	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.4		0.0	
TOTALS	0.2	0.5	0.1	0.7	1.2	0.6	0.2	. 2.2	6.1	1.2	0.0	1.8
		Havn1e	Point	•		She11	Bar			Hudna11	's Dock	
1077 Per	1027	Stat	lon e			Statio	n f		1051	Stat	ion f	16==
1977 Dates Exposed**	1974	1975	1976	1977	1974		1976	1977	1974	1975	1976	1977
Jun 6-13	0.0		0.0		0.0		0.0		0.0		0.0	
Jun 13-20	0.0	0.1	0.0		0.0		0.0		0.0	0.0	0.0	
Jun 20-28	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Jun 28-Jul 5	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Jul 5-13	0.0	0.0	0.0	0.0	0.0		0.0	0,0	0.0	0.0	0.0	0.0
Jul 13-18	0.1	0.0	0.0	0.0	1.1		0.0	0.0	0.0	0.1		0.0
Jul 18-25	0.0	0.6	0.0	0.2	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Jul 25-Aug 1	0.3	0.5	0.1	0.1	8.9		0.2	0.0	2.0	0.0	0.0	0.0
Aug 1-8	0.7	0.0	0.0	0.0	1.0		0.0	0.5	0.8	0.0	0.0	0.1
Aug 8-15	0.0	0.0	0.0	0.0	0.1		0.0	0.0	0.0	0,0	0.0	0.7
Aug 15-22	0.2	0.0	0.1	0.0	0.1		0.2	0.0	0.0	0.0	0.4	0.0
Aug 22-29	0.0	0.0	0.0	0.0	0.0		0.0	0.1	0.0	0.0		0.6
Aug 29-Sep 5	0.0	0.0	0.0	0.2	0.0		0.0	0.7	0.0	0.0	0.2	0.7
Sep 5-12	0.0	0.2	0.0	0.4	1.6		0.0	0.0	0.2	0.0	0.0	1.1
Sep 12-19	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6
Sep 19-26	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS	1.5	1.6	0.2	1.1	12.8	0.2	0.4	1.5	3.0	0.1	0.6	3.8

DIVIDI	MO	Chrru
DIATOL	NG	UKEEK

			e Point							DIAIDI	NO CREEK	,
1977 Dates Exposed**	1071		tion g	<u> </u>						Hollan	d's Pier	
13// Dates Exposed**	1974	1975	1976	1977					1974	1975	1976	1977
Jun 6-13	0.0		0.0									
Jun 13-20	0.0	0.0	0.0									
Jun 20-28	0.0	0.0	0.0 0.0							0.0	0.0	
Jun 28-Jul 5	0.0	0.0								0.0	0.0	0.0
Jul 5-13	0.0		0.0	0.0						0.2	0.0	0.0
Jul 13-18	0.4			0.0		•				0.2	0.0	0.1
Jul 18-25		0.2	0.0	0.0						0.0	0.3	0.0
Jul 25-Aug 1	0.0	0.0	0.0	0.0						0.0	0.0	0.0
Aug 1- 8	2,3	0.0	0.9	0.0					-	0.0	1.1	0.0
Aug 8-15	8.8	0.0	0.0	0.0			_		Sampled	0.0	0.0	0.0
-	0.0	0.0	0.0				-		Ę.	0.0	0.0	
Aug 15-22	0.0	0.0	0.0	0.0						0.0	0.0	0.0
Aug 22-29	0.0	0.0	0.0	0.3						0.0	0.0	0.0
Aug 29-Sep 5	0.0	0.0		0.1			•		Not	0.0	0.0	0.1
Sep 5-12	0.0	0.0	0.0	0.5			•		z	0.0	0.0	
Sep 12-19	0.0	0.0	0.0	0.1					•	0.0		0.0
Sep 19-26	0.0	0.0	0.0	0.0						0.0	0.0	0.0
MOME I C										0.0	0.0	0.0
TOTALS	11.7	0.2	0.9	1.0	•		•			0.4	1.4	0.2
•										•••		0.2
					Ti Omerica			•				
					POTOMA	CRIVER						
		Corn	field				. Chan-					
1977 Dates Exposed**	1974	1975	1976	1977	1974		Shore	1077	107/		Neck	
•			2,,,,	2777	1974	1975	1976	1977	1974	1975	1976	1977
Jun 13-20			0.0	0.0		0.1	0.0					
Jun 20-27				0.0			0.0		0.0	0.0	0.0	
Jun 27-Jul 5		0.0	0.0			0.0	0.0	0.0		0.0	0.0	0.0
Jul 5-13		~-				0.0		0.0	0.0	0.0	0.0	0.0
Jul 13-18			0.0				· .		0.0	0.0		0.0
Jul 18-26	Sampled		0.0	0.0		0.1	0.0	0.0	0.0	0.0	0.0	0.0
Jul 26-Aug 1	Į.	{0.0		0.0		}o.o	0.0	0.0	0.0	0.0	0.0	0(
Aug 1- 8	E E	•	0.0			j	0.0		0.0	٥.٥	0.0	0.\
Aug 8-15	ίζ.	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aug 15-23	Not	0.0	0.0	0.0		0.0	0.0	0.0	0.3	0.0	0.0	
Aug 23-29	ĕ	0.0	0.0	0.1	'	0.0	0.0	0.1	0.4	0.0	0.0	0.0
Aug 29-Sep 5		0.1	0.0	1.9		0.0	0.0	0.6	1.0	0.0	0.0	0.0
-		0.0	0.0	0.1		0.4	0.0	√0.7	0.0	0.7	0.0	0.0
Sep 5-14		0.6	0.0	. {0.0	. 1.0	0.8	0.0	1		1.4	0.0	0.1
Sep 14-19		0.0	0.0	10.0	2.4	0.0	0.0	}0.1	0.0		0.0	0.0
Sep 19-26		0.0	0.0	0.0	0.0	0.0	0.0	J _{0.0}	0.0	0.0	0.0	
momar a							*	0.0	0.0	0.0	0.0	0.0
TOTALS		0.7	0.0	2.1	3.4	1.4	0.0	1.5	1.7	2.1	0.0	0.1
									1.,	2.1	0.0	0.1
·	-	_		•								
1977 Dates Evaced**	1074	Co		1077	107/	Hog I		1077	107/	Thickett		
1977 Dates Exposed**	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 13-20	0.0			0.0		0.0	0.0			0.0		
Jun 20-27	0.0		0.0	0.0					0.0	0.0		
Jun 27-Jul 5	0.0					0.0	0.0	0.0	0.0	0.0	0.0	
Jul 5-13			0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.1	0.0
Jul 13-18	0.0		0.0	0.0		0.1	0.0	0.0	0.0	. 0.0	0.0	0.0
Jul 18-26	0.0	덩	0.0	0.0	þ	{0.0	0.0	 ,	0.0	0.0	0.0	0.0
Jul 26-Aug 1	0.1	Sampled	0.0	0.0	Sampled	,	0.0		0.0	0.0	0.0	0.1
Aug 1-8	0.0	ij	0.0	0.0	亅	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aug 8-15	0.0	Š	0.0	0.0	S	0.0	0.0	0.0	0.0	0.0		0.0
Aug 15-23	0.0	ň	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aug 23-29	0.0	Not	0.0	0.0	Not	0.0	0.0		0.0	0.0	0.0	0.3
Aug 29-Sep 5	0.0		0.0	0.1		0.0	0.0	0.0	0.0	0.0	0.0	0.2
Sep 5-14	0.2		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.1
Sep 14-19	0.0		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0
Sep 19-26	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
•				-		. • •			J.0		~.~	V. V
TOTALS	0.3		0.0	0.1		0.1	0.0	0.0	0.0	0.0	0.1	0.7
											=	1

•	Yeo-	_							_	
1077 Dobos Proces 444		Ra	gged Point	· _1	King Cops	sico Point		Gum	Bar	
1977 Dates Exposed**	comico		1975			1975			1977	
Jun 13-20	1974,	197	0.0		107/	0.0	•	1075		
Jun 20-27	1774)	191	0.0		1974	0.0		1975	0.0	
Jun 27-Jul 5	1975,	197			1076	. 0.0			0.0	
Jul 5-13	1773,	177			1976	0.0			0.0	
Jul 13-18	1976		0.0			0.0		_	0.0	
Jul 18-26	1970	an			and	0.0		and	0.0	
Jul 26-Aug 1			0.0			0.0			0.0	
	and	197			1977	0.0			0.0	
Aug 1- 8	1033		0.0			0.0			0.0	
Aug 8-15	1977		0.0			0.0		1976	0.0	
Aug 15-23			0.0			0.0			0.0	
Aug 23-29	A11	A1			A11	0.0		A11	10.1	
Aug 29-Sep 5			0.3			0.0			0.1	
Sep 5-14	Zeros	Zer	os 0.0		Zeros	0.2		Zeros	0.0	
Sep 14-19									0.0	
Sep 19-26			0.0			0.0			0.0	
									0.0	
TOTALS			0.3			0.2	•		0.1	
						***			0.1	
		•								
				EASTERN SHOP	RE. BAYST	DR .				
					, 2	.DL				

	Po	comoke Sound,			Onanco	ck Creek			Puncoter	iono Crook
1977 Dates Exposed**	1974	comoke Sound, 1975 19		1974			1977	197/		gue Creek
•	<u>Po</u> 1974	1975 197		1974	Onanco 1975	ck Creek 1976	1977	1974	Pungotea 1975	gue Creek 1976
Jun 13-20	1974	1975 197 0.0 0.	76 1977	-	1975				1975	1976
Jun 13-20 Jun 20-27	1974	1975 197	76 1977 .0 0.0	0.0	1975 0.0	1976	0.0	1974	1975	1976
Jun 13-20 Jun 20-27 Jun 27-Ju1 5	1974 0.0	1975 197 0.0 0.	76 1977 .0 0.0 .0 0.0	-	1975 0.0 0.0	1976 	0.0	0.0	1975 0.0 0.0	1976 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11	1974	1975 19 0.0 0. 0.0 0.	76 1977 .0 0.0 .0 0.0 .0	0.0	1975 0.0	1976 	0.0 0.0 0.0		1975	1976 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18	1974 0.0 (0.0	1975 19 0.0 0. 0.0 0. 0.0 0.	76 1977 .0 0.0 .0 0.0 .0 0	0.0 {0.0	1975 0.0 0.0	1976 0.0	0.0 0.0 0.0	0.0 {0.0	0.0 0.0 	1976 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11	1974 0.0	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	76 1977 .0 0.0 .0 0.0 .0 0 0 0.0	0.0	1975 0.0 0.0	1976 0.0 0.0	0.0 0.0 0.0 0.0	0.0 {0.0 	0.0 0.0 0.0	1976 0.0 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18	1974 0.0 (0.0	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0	76 1977 .0 0.0 .0 0.0 .00 0 0.0 0 0.1	0.0 {0.0	1975 0.0 0.0	1976 0.0	0.0 0.0 0.0	0.0 {0.0	0.0 0.0 0.0 {0.0 0.0	1976 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25	1974 0.0 {0.0 {0.0	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.7 0.	76 1977 .0 0.0 0 0.0 0 0.0 0 0 0.0 0 0.1 1 0.0	0.0 {0.0 }0.0	1975 0.0 0.0 }0.0	1976 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 {0.0 	1975 0.0 0.0 {0.0 0.0	1976 0.0 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1	1974 0.0 (0.0	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.7 0.0	76 1977 .0 0.0 .0 0.0 .0 0.0 .00 0.0 .0 0.1 1 0.0 4 0.2	0.0 {0.0	1975 0.0 0.0 } 0.0	1976 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 {0.0 	0.0 0.0 0.0 0.0 0.0	1976 0.0 0.0 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1- 8	1974 0.0 {0.0 {0.0 }0.1	1975 197 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.7 0.0	76 1977 .0 0.0 .0 0.0 .0 0 0 0.0 0 0.1 1 0.0 4 0.2 1 0.3	0.0 {0.0 }0.0	1975 0.0 0.0 0.0 0.0 0.0	1976 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 {0.0 	0.0 0.0 0.0 0.0 0.0 0.0	1976 0.0 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1-8 Aug 8-15 Aug 15-22	1974 0.0 {0.0 {0.0	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.7 0.0 0.0 0.0 0.4 {5.	76 1977 .0 0.0 .0 0.0 .0 0.0 .0 0 0.0 0 0.1 1 0.0 4 0.2 1 0.3 0.1	0.0 {0.0 }0.0 }0.0	1975 0.0 0.0 } 0.0	1976 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 {0.0 0.0 {1.4	0.0 0.0 0.0 0.0 0.0	1976 0.0 0.0 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 8-15 Aug 15-22 Aug 22-29	1974 0.0 0.0 0.0 0.0 0.0	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.7 0.0 0.0 0.0 0.4 {5.0 0.4 {5.0 0.4 {5.0 0.7 0.0	76 1977 .0 0.0 .0 0.0 .0 0.0 0 0 0.0 1 0.0 4 0.2 1 0.3 0 1	0.0 {0.0 }0.0	1975 0.0 0.0 0.0 0.0 0.0 0.0 0.1	1976 	0.0 0.0 0.0 0.0 0.0 0.0 0.0 {0.1	0.0 {0.0 	0.0 0.0 0.0 0.0 0.0 0.0 0.0	1976
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 15-22 Aug 22-29 Aug 29-Sep 6	1974 0.0 {0.0 {0.0 }0.1	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.7 0.0 0.0 0.1 5.0.4	76 1977 .0 0.0 0.0 0.0 0 0 0.0 0 0.1 1 0.0 4 0.2 1 0.3 1 0.1 0 1 1.4	0.0 {0.0 }0.0 }0.0 {0.0	1975 0.0 0.0 0.0 0.0 0.0 0.1 0.0	1976 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 (0.1 0.0 (0.0	0.0 {0.0 0.0 {1.4 {0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1976 0.0 0.0 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 15-22 Aug 22-29 Aug 22-Sep 6 Sep 6-12	1974 0.0 0.0 0.0 0.0 0.0	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	76 1977 .0 0.0 0.0 0.0 0 0 0.0 0 0.1 1 0.0 4 0.2 1 0.1 0 1 1.4 0.2	0.0 {0.0 }0.0 }0.0	1975 0.0 0.0 0.0 0.0 0.0 0.0 0.1	1976 	0.0 0.0 0.0 0.0 0.0 0.0 0.0 {0.1	0.0 {0.0 0.0 {1.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	1976 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 15-22 Aug 22-29 Aug 29-Sep 6 Sep 6-12 Sep 12-19	1974 0.0 0.0 0.0 0.0 0.0	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	76 1977 .0 0.0 0.0 0.0 0 0 0 0.0 0 0.1 1 0.0 4 0.2 1 0.1 0 0.1 1 0.2 3	0.0 {0.0 }0.0 }0.0 {0.0 {0.0	1975 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.2	1976 0.0 0.0 0.0 0.0 }	0.0 0.0 0.0 0.0 0.0 0.0 0.0 {0.1 0.0 {0.0	0.0 {0.0 0.0 {1.4 {0.0	1975 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1976 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 15-22 Aug 22-29 Aug 22-29 Aug 22-29 Aug 22-29 Sep 6-12 Sep 12-19 Sep 19-26	1974 0.0 0.0 0.0 0.0 0.0	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.4 {5.0 0.0 0.0 0.0 0.0 0.0 0.0	76 1977 .0 0.0 0.0 0.0 0 0 0.0 0 0.1 1 0.0 4 0.2 1 0.1 0 1 1.4 0.2 3 2	0.0 {0.0 }0.0 }0.0 {0.0	1975 0.0 0.0 0.0 0.0 0.0 0.1 0.0	1976 	0.0 0.0 0.0 0.0 0.0 0.0 0.0 (0.1 0.0 (0.0	0.0 {0.0 0.0 {1.4 {0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1976 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 15-22 Aug 22-29 Aug 29-Sep 6 Sep 6-12 Sep 12-19	1974 0.0 0.0 0.0 0.0 0.0	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	76 1977 .0 0.0 .0 0.0 .0 0.0 .00 0.0 .1 1 0.0 4 0.2 .1 0.3 .1 0.1 .1 1.4 .2 3	0.0 {0.0 }0.0 }0.0 {0.0 {0.0	1975 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.2	1976 0.0 0.0 0.0 0.0 }	0.0 0.0 0.0 0.0 0.0 0.0 0.0 {0.1 0.0 {0.0	0.0 {0.0 0.0 {1.4 {0.0	1975 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1976 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 15-22 Aug 22-29 Aug 29-Sep 6 Sep 6-12 Sep 12-19 Sep 19-26 Sep 26-Oct 3	1974 0.0 {0.0 }0.0 }0.1 {0.0	1975 197 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.0 0.0 0.4 {5. 0.0 0.0 0.2 0. 0.2 0.	76 1977 .0 0.0 .0 0.0 .0 0.0 .00 0.0 .1 1 0.0 4 0.2 1 0.3 0.1 0 1 1.4 0.2 3 2	0.0 {0.0 }0.0 }0.0 {0.0 {	1975 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.2 0.0	1976 0.0 0.0 0.0 0.0 0.0 } 0.0 }	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 {0.0 0.0 1.4 {0.0 0.0	1975 0.0 0.0 	1976 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 15-22 Aug 22-29 Aug 22-29 Aug 22-29 Aug 22-29 Sep 6-12 Sep 12-19 Sep 19-26	1974 0.0 0.0 0.0 0.0 0.0	1975 19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.4 {5.0 0.0 0.0 0.0 0.0 0.0 0.0	76 1977 .0 0.0 .0 0.0 .0 0.0 .00 0.0 .1 1 0.0 4 0.2 1 0.3 1 0.1 0 1 1.4 0.2 3 2	0.0 {0.0 }0.0 }0.0 {0.0 {0.0	1975 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.2	1976 0.0 0.0 0.0 0.0 }	0.0 0.0 0.0 0.0 0.0 0.0 0.0 {0.1 0.0 {0.0	0.0 {0.0 0.0 {1.4 {0.0	1975 0.0 0.0 	1976 0.0 0.0 0.0 0.0 0.0 0.0 0.0

1977

0.0 0.0 0.0 0.0 0.0

{0.4 0.0 {0.1 0.1 2.0

{2.8

5.4

// Datar Kyparaday			ock Creek			Nassawad	ox Creek			_Cherrysto	nne Inlat	
77 Dates Exposed**	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 13-20	0.0	0.0	0.0	0.0		0.0	0.0				0.0	
Jun 20-27	100	0.0	0.0	0.0		0.0	0.0	0.0			0.0	0.0
Jun 27-Jul 5	{0.0	0.0	0.1	0.0		0.0			0.1		0.0	0.0
Jul 5-11	١)	0.0			, v.v	0.0	0.1			0.0	0.3
Jul 11-18	\$0.0	}o.o	0.0	{0.0		١.,	0.0	0.0			0.0	0.0
Jul 18-25	[""	٠٠٠)	0.0	,		} 0.0	0.0	0.0	{0.3		0.0	0.0
Jul 25-Aug 1	<	,,,		0.0	7)	0.0	1.4	,0.5		0.0	0.3
Aug 1-8	٥.o إ	0.0	0.0		Sampled	0.0	0.1	0.2			0.1	0.3
Aug 8-15	0.0م	0.0	0,1	0.1	Ê	0.0	0.0	0.0		``	0.1	0.2
Aug 15-22	,	0.2	0.1	0.4	လို	2.4	0.0	1,2		10.0	0.6	13.2
	0.0	2.0	0.0	0.5	Ļ	1.2	0.1	11.) .	1	0.1	
Aug 22-29	,010	0.6	0.1	0.1	Not	1.8	0.5	{0.1	{6.0	~	0.5	{7.2
Aug 29-Sep 6	0.4	2.8	0.1	۱۵,	_	6.4	0.4	0.2		1	0.1	10.0
Sep 6-12	10.4		0.0	0.4	19	11.2	0.8	0.1	{4.4	15.6		
Sep 12-19		100	0.1	1.		i i	1.5		,	ه،دیم	0.0	2.2
Sep 19-26		{0.6	0.1	0.2		∤8.6	1,3			1	0.1	1.2
Sep 26-0ct 3						· 	0.4	and the second			0.9	~-
						_ 	0.4				0.2	
TOTALS	0.4	6,2	0.7	1.7		31.6	5.1	3.3	10.8	25.6	2,7	34.9

EASTERN SHORE, SEASIDE

	Oueen	Sound, Cl	incoteae	ue Bav		Watt	s Bay			Burton	's Bay	(
1977 Dates Exposed**	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
Jun 13-20 Jun 20-27 Jun 27-Jul 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 15-22 Aug 22-29 Aug 22-29 Aug 29-Sep 6 Sep 6-12 Sep 12-19 Sep 19-26 Sep 26-Oct 3	0.0 0.0 0.2 0.0 0.0 0.8	0.0 0.0 0.0 0.0 0.1 0.0 0.5 } 4.0	0.0 0.0 0.0 3.3 }13.2 { 0.5 { 8.0 25.0	0.0 0.0 6.2 2.2 } 0.4 {4.2 } 1.2	0.0 0.0 0.1 0.4 9.4 9.9	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1	0.0 0.0 0.0 }0.3 7.1 }4.2 {10.9 { 2.0	0.0 0.0 0.0 0.0 12.4 }1.4 {0.0	0.0 0.0 0.0 0.2 0.0 }0.5 {0.6 {1.8 0.2 3.3	0.0 0.0 0.0 0.0 0.0 0.2 0.0 4.4 0.0 0.0	0.3 0.0 0.0 1.3 }3.8 3.3 0.3 0.4 {2.6	0.0 1.2 }9.8 0.9 } 3.2
1977 Dates Exposed**	1974	Quinby Machipon 1975		1977	1974	Oys: Point (1975	ter, of Rock 1976	1977		Island Inpard's To 1977		
Jun 13-20 Jun 20-27 Jun 27-Ju1 5 Ju1 5-11 Ju1 11-18 Ju1 18-25 Ju1 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 15-22 Aug 22-29 Aug 29-Sep 6 Sep 6-12 Sep 12-19 Sep 19-26 Sep 26-Oct 3	6.3 0.1 {7.5 {3.2 2.0 {3.2 22.3	 0.5 \{15.6 0.2 3.4 11.2 \} 0.2	1.5 0.0 12.5 4.7 14.8 0.1 3.2 0.0 0.0	0.0 44.1 0.0 2.7 41.6 0.6 0.7 0.0 8.4 2.4 1.8 0.1 0.0 {0.0 	\{0.0 \\ \}1.4 \\ \}0.2 \\ \{0.2 \\ \ \\ \ \\ \1.8 \\ \}	0.1 0.2 2.3 1.8 0.2 0.5 1.4 {17.6 14.2 15.6 0.0 0.0	1.3 1.9 0.1 19.6 0.0 5.2 2.5 3.8 1.6	3.4 4.2 0.7 0.0 3.4 9.0 1.6 0.8 0.1 0.3		0.0 0.0 0.3 0.5 8.6 2.6 21.0 5.2 0.4 0.1 0.4 0.2 0.8 		
		South	No.			Hog Isla	and Roy					
1977 Dates Exposed**	1974	Running 1975		1977	1974	Issac' 1975		1977	1974	Bradfo 1975	rd Bay 1976	1977
Jun 13-20 Jun 20-27 Jun 27-Jul 5 Jul 5-11 Jul 11-18 Jul 18-25 Jul 25-Aug 1 Aug 1- 8 Aug 8-15 Aug 15-22 Aug 22-29 Aug 22-29 Aug 29-Sep 6 Sep 6-12 Sep 12-19 Sep 19-26 Sep 26-Oct 3	Not Sampled	Not Sampled	0.5 1.7 0.0 9.4 14.0 5.3 4.0 0.8 2.1 0.3 0.5 0.2	0.0 4.2 0.0 0.0 0.9 13.8 1.8 1.0 0.0 {0.8	Not Sampled	0.0 0.0 0.3 0.1 0.0 0.0	0.0 0.1 0.1 0.0 0.5 0.1 0.0 0.1 0.0 0.1 0.0 0.1	0.1 0.1 }7.5 0.4 2.2 1.8 0.0 0.7 0.2 0.0 0.0	0.0 0.0 0.0 0.0 0.2 }0.0 {2.8 {13.2	Not Sampled	Not Sampled	0.0 0.7 11.9 0.2
TOTALS			38.9	22.6		0.4	1.7	12.9	16.2			15.0

	, ,	
· · ·		
I.		
	•	