

VIMS OYSTER BAR SURVEY

BAR: HORSEHEAD RECORDER _____
 DATE 5/22/1996 EXAMINER _____
 VESSEL _____ GEAR _____ EXAMINER _____
 HYDRO DATA: TIME 1234 12 ft TEMP 22.9 SALINITY #4 (39.00)

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
1	1/2	18	269	145	2	29	0	Species	Abund. Code
COMMENTS:								Barnacles	3
								Mussels	3
								MC	1

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
2	1/2	24	307	142	5	33	0	Species	Abund. Code
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
3	1/2	25	275	114	6	40	0	Species	Abund. Code
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
4	1/2	18	358	159	0	35	0	Species	Abund. Code
COMMENTS:									

VIMS OYSTER BAR SURVEY

BAR: PT OF STOALS
 RECORDER _____
9/4 DATE 5-22 1996 EXAMINER _____
 VESSEL _____ GEAR _____ EXAMINER _____
 HYDRO DATA: TIME 11:15 TEMP 23.3 SALINITY #3 (2.59)

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING <small>Species</small>	Abund. <small>Code</small>
1	1/2	10	134	22	1	29	0	<i>Burrows</i>	2
COMMENTS: <i>Spat in old boxes often</i>								<i>Mussels</i>	3
								<i>MC</i>	1

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	Abund.
2	1/2	13	149	105	7	26	0		
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	Abund.
3	1/2	13	82	52	5	29	0		
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	Abund.
4	1/2	16	177	114	1	43	0		
COMMENTS:									

VIMS OYSTER BAR SURVEY

BAR:	LONG ROCK James R.	RECORDER	Mouley
	George Pongonis	DATE	May 22 1996
	Fish Hawk	EXAMINER	Walker
VESSEL		EXAMINER	Bartol
HYDRO DATA:		TIME	1035 9ft
		TEMP	22.9
		SALINITY	#2 (49)

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	Abund.
1	1/2	7	146	8	3	52	0	Mussels Barnacles MC BC	3 4 1 1
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	Abund.
2	1/2	11	244	18	2	43	0		
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	Abund.
3	1/2	5	282	28	3	39	0		
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	Abund.
4	1/2	3	126	19	4	24	0		
COMMENTS:									

VIMS OYSTER BAR SURVEY

BAR:	DRY SHOAL	RECORDER	Morales
	11	DATE	May 22 1996
VESSEL	Fish Hawk	EXAMINER	Walker
		EXAMINER	Bartol
HYDRO DATA:	TIME	0950	11 ft
		TEMP	22.5
		SALINITY	#1 (6‰)

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
1	1/2	2	38	3	2	17	1	Species	Abund. Code
COMMENTS:								MC	1
								BC	1
								Barnacles	4
								Mussels	1

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
2	1/2	1	21	7	0	14	0	Abund.	
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
3	1/2	2	49	7	0	12	1	Abund.	
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
4	1/2	2	25	0	0	7	0	Abund.	
COMMENTS:									

VIMS OYSTER BAR SURVEY

BAR: SWANSH
 RECORDER _____
Paul Gerdes DATE 5/23 1996 EXAMINER _____
 VESSEL FISH Hawk GEAR _____ EXAMINER _____
 HYDRO DATA: TIME 1140 11 ft TEMP 23.2 SALINITY #8 (47.2)

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
1	1/2	13	84	1	11	35	0	Species	Abund. Code
COMMENTS:								Mussels	4
								Parasites	4

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
2	1/2	24	109	6	7	27	0	Species	Abund. Code
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
3	1/2	19	128	3	2	14	0	Species	Abund. Code
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
4	1/2	18	93	2	3	22	0	Species	Abund. Code
COMMENTS:									

VIMS OYSTER BAR SURVEY

BAR: <u>WRECK SHOAL</u>		RECORDER: <u>Moralos</u>
<u>Paul Gendy</u>	DATE: <u>5/23</u> 1996	EXAMINER: <u>Walker</u>
VESSEL: <u>FISH HAWK</u>	GEAR: _____	EXAMINER: <u>Bartol</u>
HYDRO DATA: TIME <u>1045</u> <u>7ft</u>		TEMP <u>23.1</u> SALINITY <u>#7 (89.0)</u>

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
1	1/2	1	46	4	1	11	0	Species	Abund. Code
COMMENTS:								Barnacles	3
								Hydras	1
								MC	1
								Mud Tubes	1
								Mussels	1

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
2	1/2	0	37	7	1	18	0	Abund.	
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
3	1/2	0	27	2	1	6	0	Abund.	
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
4	1/2	4	17	2	0	3	0	Abund.	
COMMENTS:									

VIMS OYSTER BAR SURVEY

BAR: Deep Water Shoal RECORDER _____
 DATE 5/22 1996 EXAMINER _____
 VESSEL _____ GEAR _____ EXAMINER _____
 HYDRO DATA: TIME 1338 9 ft TEMP 23.8 SALINITY #5 (190)

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING Species	Abund. Code
1	1/2	13	112	398	0	63	1	Murex	2
COMMENTS:								Mud Tubes	4
								Panopeus	3
								HC	1

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	Abund.
2	1/2	7	91	405	4	78	0		
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	Abund.
3	1/2	4	79	481	2	94	0	Mud Tubes	2
COMMENTS: ←									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	Abund.
4	1/2	17	61	366	5	81	0		
COMMENTS: Mud Tubes #4									

VIMS OYSTER BAR SURVEY

BAR: Mulberry Point RECORDER _____
 DATE 5/22 1996 EXAMINER _____
 VESSEL _____ GEAR _____ EXAMINER _____
 HYDRO DATA: TIME 1445 9 ft TEMP 23.3 SALINITY #6 (490) (4 ppt)

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
1	1/2	18	206	23	3	38		Species	Abund. Code
COMMENTS:								Mussels	3
								Barnacles	3
								MC	1
								Mud Tubes	2

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
2	1/2	20	177	44	2	37	0	Abund.	
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
3	1/2	13	128	19	3	48	0	Abund.	
COMMENTS:									

REPLICATE NUMBER	SAMPLE SIZE	MARKET	SMALL	SPAT	NEW BOXES	OLD BOXES	SPAT BOXES	PREDATORS AND FOULING	
4	1/2	17	198	30	0	29	0	Abund.	
COMMENTS:									

JAMES RIVER SMALL OYSTERS

STATISTICAL COMPARISON 1994 - 1996

(VERTICAL LINES DEFINE 95% CONFIDENCE INTERVAL AROUND THE AVERAGE)

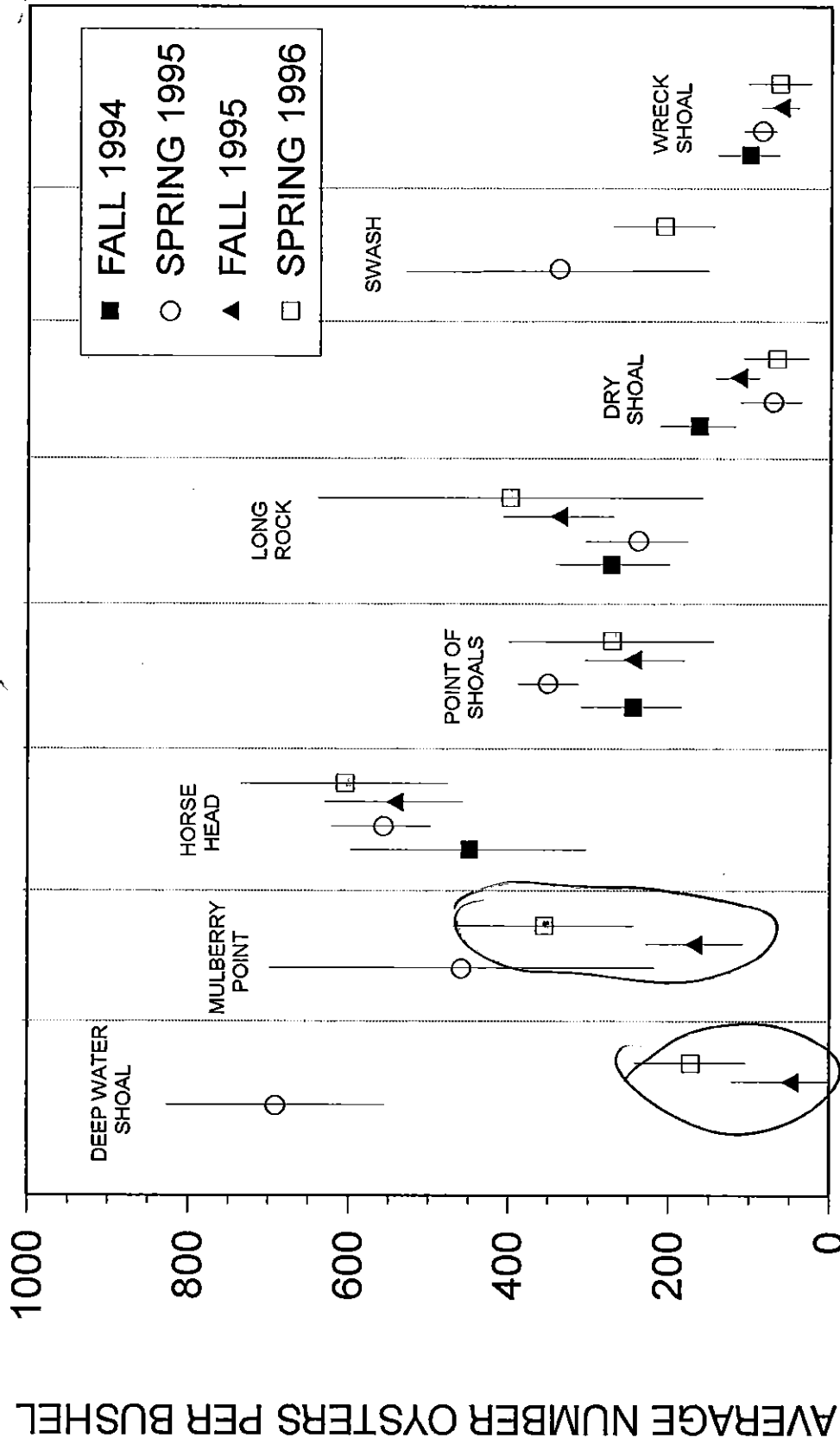


Figure 3. Statistical comparison between the average number of small oysters (under 3 in.) collected during oyster bar surveys between the fall of 1994 and the spring of 1996 at selected oyster bars on the public grounds of the James River, Va. A 95% probability exists that two averages are significantly different when the vertical line representing the confidence interval around one sample's average does not overlap the symbol for the average of another sample.

~~1996~~
 SPRING
 1996

JAMES RIVER SPAT

STATISTICAL COMPARISON 1994 - 1996

(VERTICAL LINES DEFINE 95% CONFIDENCE INTERVAL AROUND THE AVERAGE)

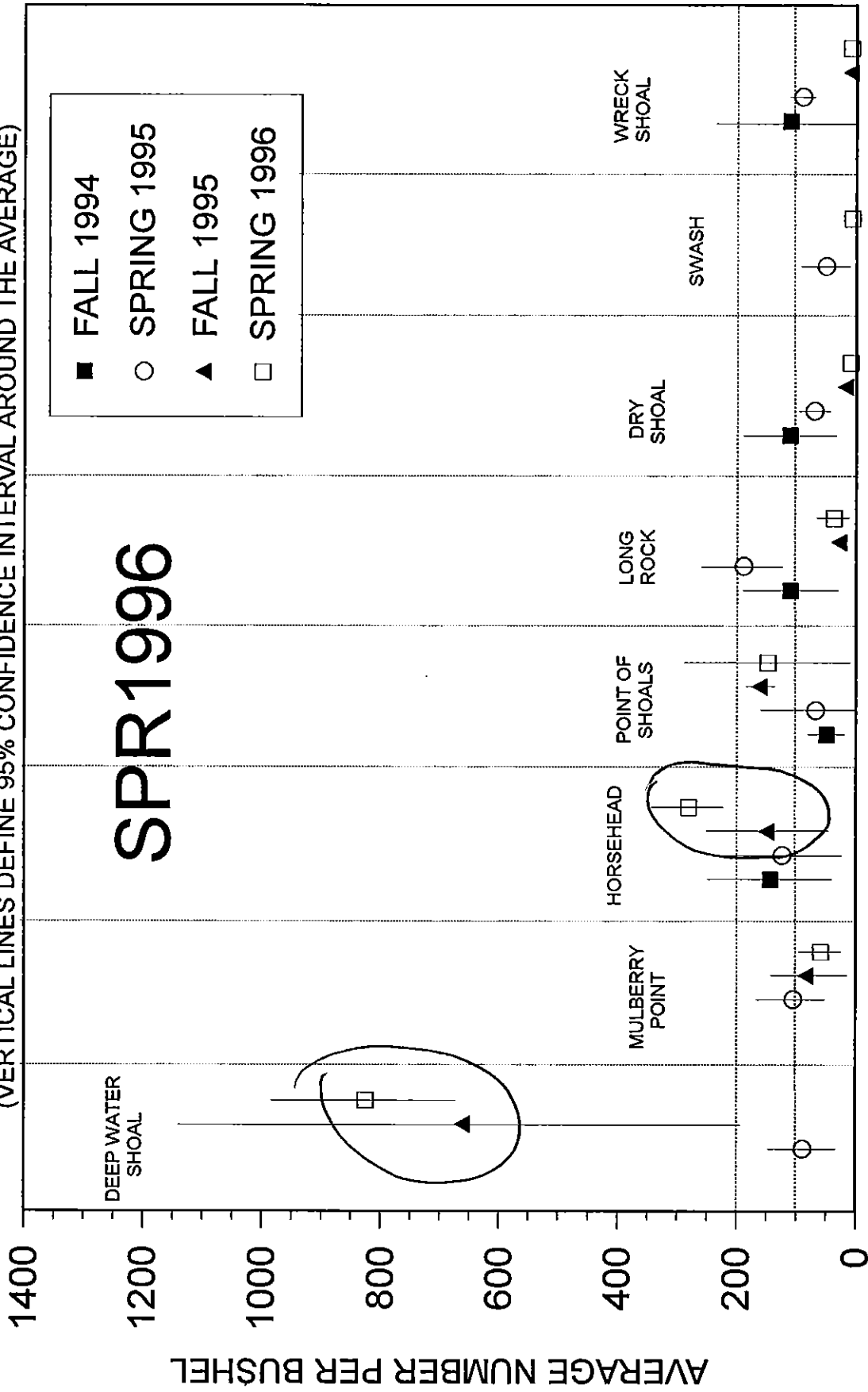


Figure 9. Statistical comparison between the average number of oyster spat collected during oyster bar surveys between the fall of 1994 and the spring of 1996 at selected bars on the public grounds of the James River, Va. A 95% probability exists that two averages are significantly different when the vertical line representing the confidence interval around one sample's average does not overlap the symbol for the average of another sample.

SPRING
1996

JAMES RIVER MARKET OYSTERS

STATISTICAL COMPARISON 1994 - 1996

(VERTICAL LINES DEFINE 95% CONFIDENCE INTERVAL AROUND THE AVERAGE)

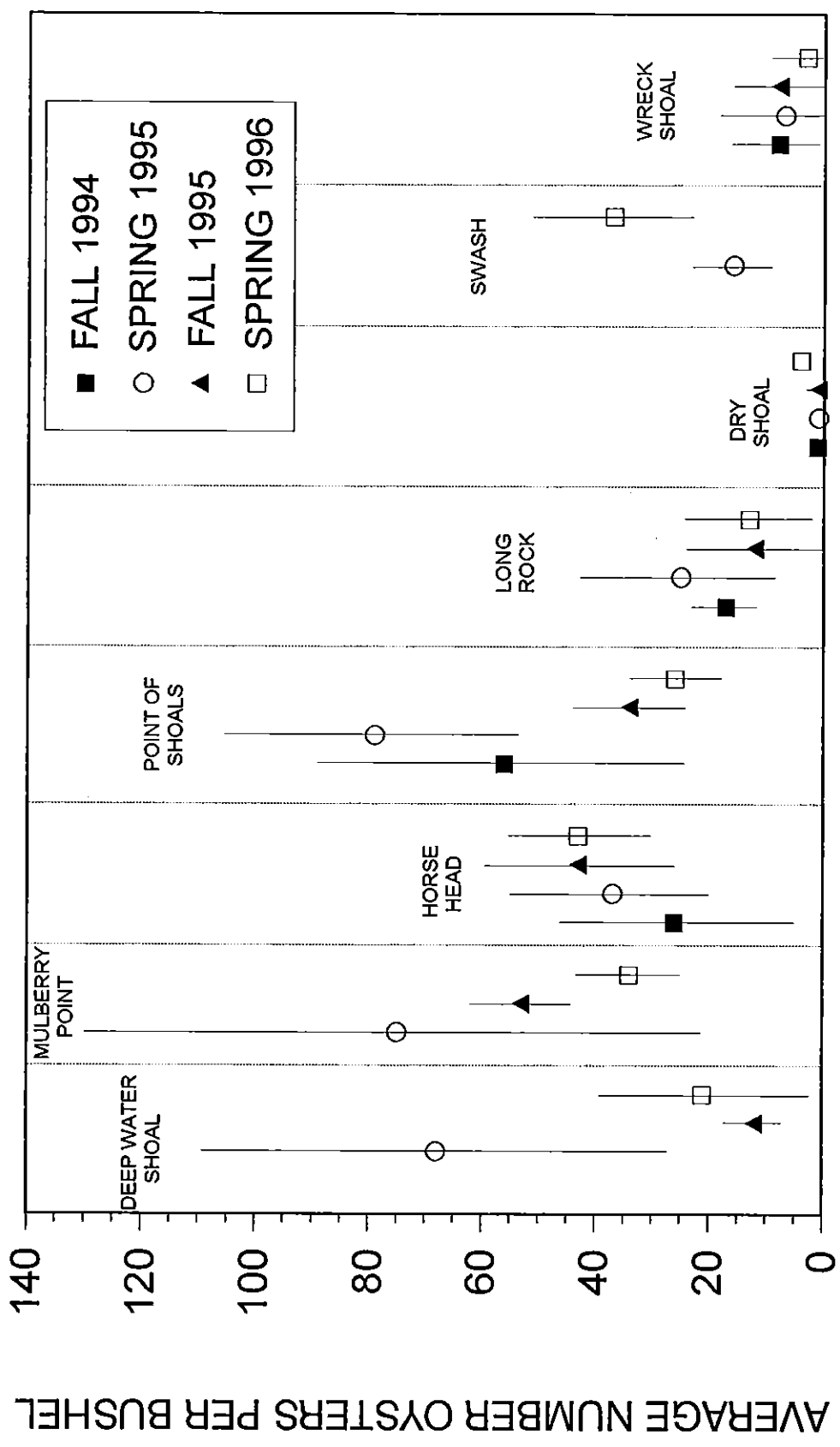


Figure 2. Statistical comparison between the average number of market-size oysters (3-in and larger) collected during oyster bar surveys between the fall of 1994 and the spring of 1996 at selected bars on the public grounds of the James River, VA. A 95% probability exists that two averages are significantly different when the vertical line representing the confidence interval around one sample's average does not overlap the symbol for the average of another sample.