

**Summary of 1994-95 Spawning-Ground Surveys
And Commercial Catch in Tomales Bay.**

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Table 1. Tomales Bay Herring Spawn Data, 1994-95 season.

Date	Location	Area M ²	Eggs/ M ²	Millions of Eggs	Conversion Factor X 10 ⁻⁸	Tons
10-Nov-94	1B	11,983	161,859	1,940	1.38	27
13-Dec-94	1A	41,490	156,588	6,500	1.38	90
16-Dec-94	28A	10,108	16,043	162	1.38	2
02-Jan-95	1B	20,758	5,776,097	120,000	1.38	1,655
	1C	2,684	2,715,937	6,280	1.38	87
	1	6,122	257,344	1,580	1.38	22
	1A	41,490	1,132,896	47,000	1.38	649
12-Jan-95	2	6,331	2,303,586	14,600	1.38	201
06-Feb-95	28	75,057	683,187	51,300	1.07	549
	1B	20,758	314,013	6,520	1.07	70
	28A	22,714	110,797	2,520	1.07	27
07-Feb-95	1	6,122	458,296	2,810	1.07	30
	2	6,331	1,496,810	9,480	1.07	101
	1C	2,684	193,947	448	1.07	5
	1A	41,490	402,309	16,700	1.07	179
	3	885	273,924	242	1.07	3
06-Feb-95	*	69	1,950,000	135	1.07	1
	**	17	1,950,000	33	1.07	*****
	***	33	922,500	30	1.07	*****
	****	2,916	381,000	1,110	1.07	5
03-Mar-95	1B	17,705	11,800	209	1.07	2
TOTAL		337,747		289,599		3,704

- * Tony's Restaurant Pilings Section 1
- ** Tony's Restaurant Pilings Section 2
- *** Tony's Restaurant Intertidal Section 1
- **** Tony's Restaurant Intertidal Section 2
- ***** Trace Spawn, < 0.5 Tons

Distribution of Spawning Biomass Over Time,

1973-95, 1992-93, 1993-94, and 1994-95

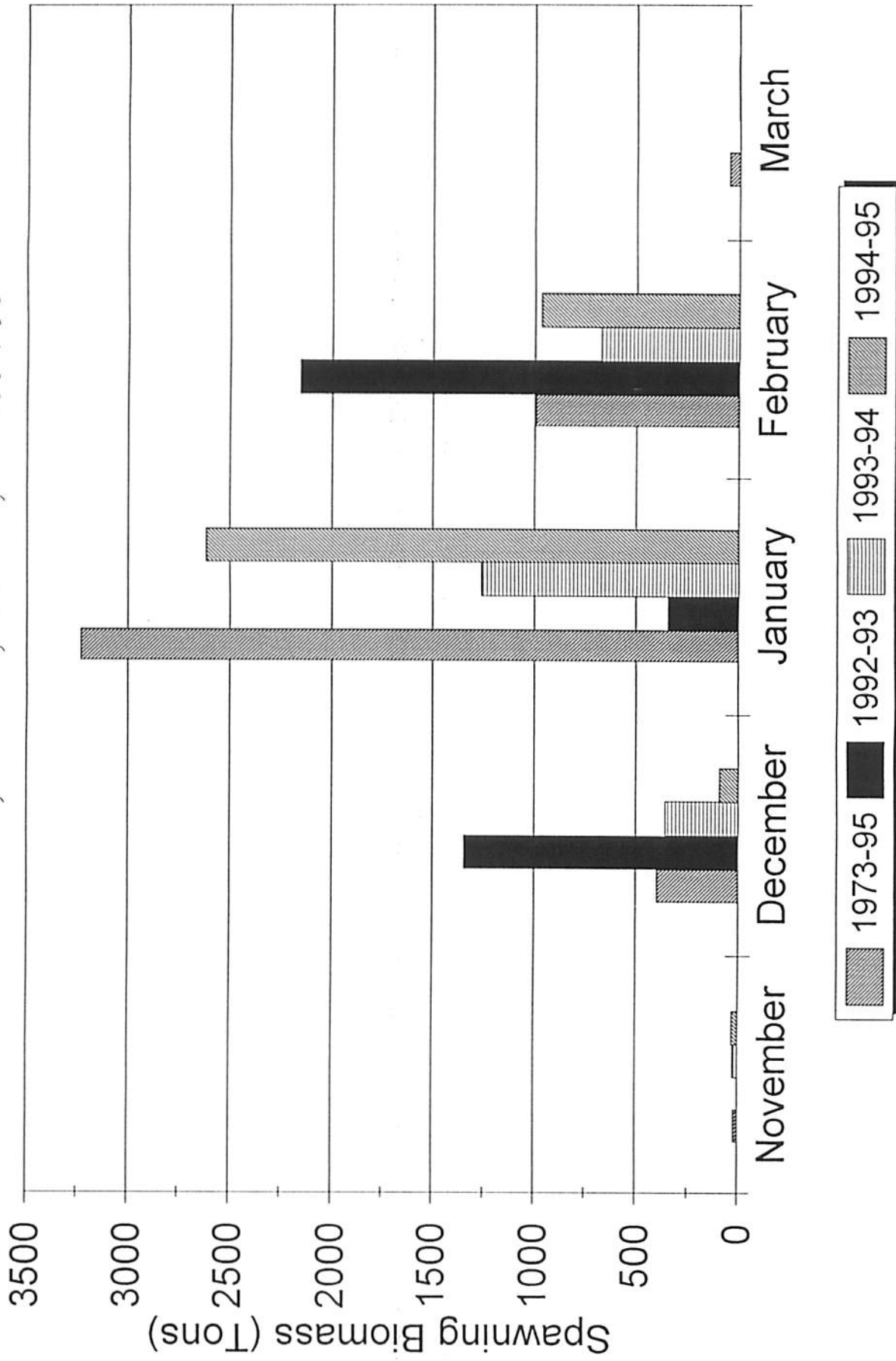


Table 2. Tomales Bay Herring Biomass Estimates 1973-74 through 1994-95 Seasons.

Season	Spawn Escapement (tons)	Catch (tons)	Spawning Biomass (tons)
1973-74	6,041	521	6,562
1974-75	4,210	518	4,728
1975-76	7,769	144	7,913
1976-77	4,739	344	5,083
1977-78	21,513	646	22,163
1978-79	--	448	--
1979-80	5,420	603	6,023
1980-81	5,128	448	5,576
1981-82	6,298	851	7,149
1982-83	10,218	822	11,040
1983-84	1,170	110	1,280
1984-85	6,156	430	6,586
1985-86	435	771	6,000*
1986-87	4,931	867	5,798
1987-88	1,311	750	2,061
1988-89	167	213	380
1989-90	345	--	345
1990-91	779	--	779
1991-92	1,214	--	1,214
1992-93	3,856	222	4,078
1993-94	2,244	219	2,463
1994-95	3,704	275	3,979

*Biomass estimated by cohort analysis; for all other years, biomass was estimated from spawning-ground surveys.

Tomales Bay Herring Biomass Estimates, 1974-1995

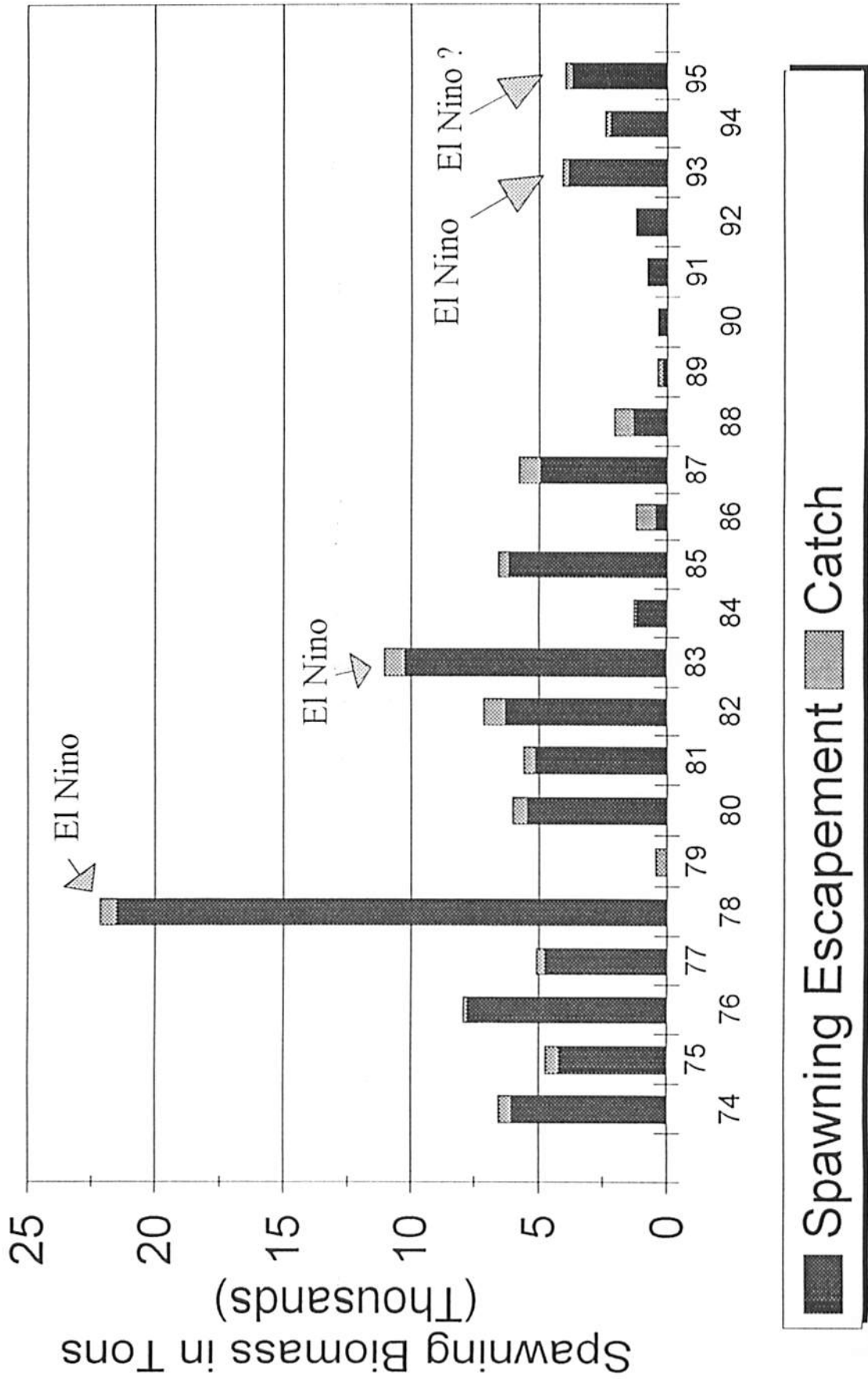


Table 3. Daily Landings by Tomales Bay Gillnet Fleet for 1994-95 Season.

Date	Pounds	Tons	Trips	Lbs/Trip	Roe Count
03-Jan-95	206,103	103	22	9,368	11.7
13-Jan-95	188,428	94	18	10,468	11.6
16-Jan-95	2,265	1	3	755	10.6
02-Feb-95	200	0.1	1	200	10.0
07-Feb-95	55,432	28	21	2,640	11.9
08-Feb-95	97,834	49	19	5,149	13.4
TOTAL	550,262	275	84	6,551	12.0

Table 4. Annual Landings from Tomales/Bodega Bay Gillnet Fleet.

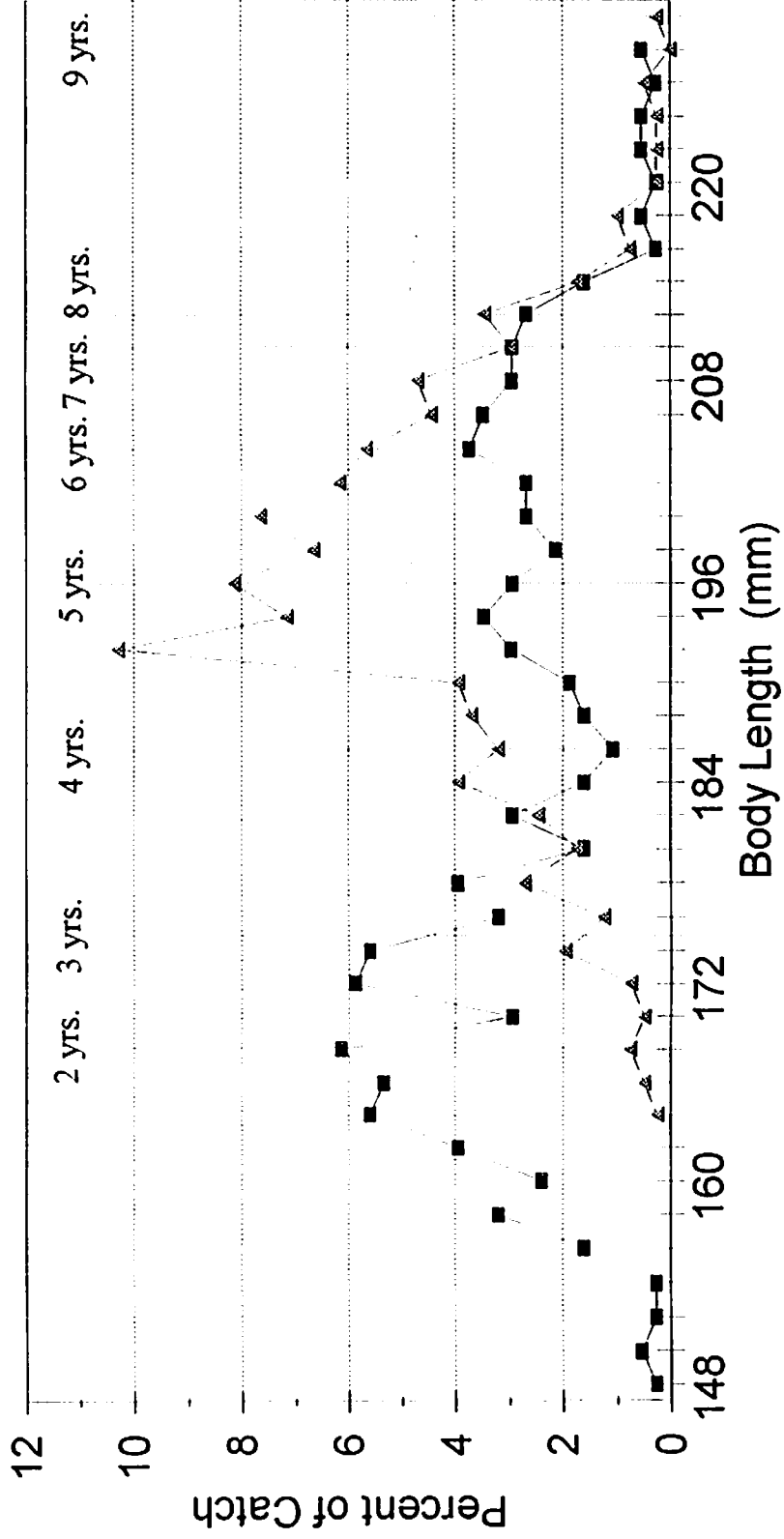
Year	Pounds	Tons	Trips	Lbs/Trip	Roe Count
84-85	844,472	422.2	215	3,928	12.8
85-86	1,542,676	771.3	512	3,013	12.5
86-87	1,732,428	866.2	429	4,038	12.5
87-88	1,499,402	749.5	484	3,097	12.4
88-89	426,163	213.0	291	1,464	12.7
89-90	190,409	95.2	61	42	13.5
90-91	173,103	86.5	72	2,404	13.6
91-92	47,125	23.5	30	1,571	14.6
92-93*	444,312	222.3	66	6,736	11.0
93-94*	437,867	218.9	164	2,670	12.3
94-95*	550,262	275.1	84	6,551	12.0
Average	717,036	358.5	219	3,229	12.7

* Catch from Tomales Bay only, outer Bodega Bay closed to fishing.

Table 5. Mean Length (mm BL) of the Tomales Bay commercial gill net catch.				
Date	Mean Length			Sex Ratio M/F
03-Jan-95	195.6			56/44
13-Jan-95	196.6			43/57
16-Jan-95	195.3			43/58
08-Feb-95	197.0			39/61
Historical Lengths of commercial gill net catch				
6 Year Average	1991-92	1992-93*	1993-94*	1994-95*
197.5	194.0	196.4	197.3	195.5

*Switched to 2-1/8 inch mesh. Catch entirely from Tomales Bay.

Length/Frequency of Commercial and Research Catch for 1994-95 Season



■ Research ▲ Commercial

Tomales Bay Spawning Biomass & Percent Catch to Biomass, 1974-1995

