Species and group: Coho, age 0+

Site or lot: "Sea Lion Cove" Lake

$g = (\log_e W_2 - \log_e W_1)$

$G = (\log_e W_2 - \log_e W_1) \div (\text{days})$

Sample date (middate) t_n	Sample mean fork length (mm) L_n	Sample mean indiv. weight* (gms) W_n	Period number or letter	Period length (days) (t_2-t_1)	Growth rates & coefficients: Average length change (mm/day) $(L_2-L_1) \div (t_2-t_1)$	Weight: Average change (g/day) $(W_2-W_1) \div (t_2-t_1)$	Instantaneous growth coeff. Period (g)	Instantaneous growth coeff. Daily (G)	Average daily % weight gain: Brown's "specific growth rate" 100(G)	Average daily % weight gain: Winberg's method $100(e^G-1)$	
7 Apr 82	35.6	0.35									
			A	15	0.1	0.01	0.2513	0.0168	1.68	1.7	
22 Apr 82	37.1	0.45									
			B	15	0.2	0.01	0.2877	0.0192	1.92	1.9	
7 May 82	39.9	0.6									
			C	14	0.2	0.01	0.2231	0.0159	1.59	1.6	
21 May 82	42.7	0.75									
			D	13	0.3	0.01	0.1823	0.0140	1.40	1.4	
3 Jun 82	46.0	0.9									
			E	12	0.3	0.03	0.2877	0.0240	2.40	2.4	
15 Jun 82	49.4	1.2									
			F	15	0.1	0.01	0.0800	0.0053	0.53	0.5	
30 Jun 82	51.1	1.3									
			G (to 7 July)	7	0.2	0.01	0.0741	0.0106	1.06	1.1	
8 Jul 82	52.2	1.4									
			1	12	1.2	0.14	0.7949	0.0662	6.62	6.8	7 July
20 Jul 82	66.9	3.1									
			2	16	1.0	0.18	0.6604	0.0413	4.13	4.2	
5 Aug 82	82.4	6.0									
			3	27	0.4	0.11	0.4055	0.0150	1.50	1.5	Aug
1 Sep 82	92.9	9.0									
			4	35	0.2	0.02	0.1252	0.0036	0.36	0.4	Sept
6 Oct 82	98.4	10.2									
			5	33	0.1	0.02	0.0755*	0.0023	0.23	0.2	Oct
8 Nov 82	100.8	11.0									
8 Jul - 5 Aug			1 & 2	28	1.1	0.16	1.4553	0.0520	5.20	5.3	July
8 Jul - 1 Sep			1 thru 3	55	0.7	0.14	1.8608	0.0338	3.38	3.4	July & Aug
8 Jul - 6 Oct			1 thru 4	90	0.5	0.10	1.9859	0.0221	2.21	2.2	
8 Jul - 8 Nov			1 thru 5	123	0.4	0.08	2.0614	0.0168	1.68	1.7	
1 Sep - 8 Nov			4 & 5	68	0.1	0.03	0.2007	0.0030	0.30	0.3	Sept & Oct

*Converted from mean length by regression conversion factor of length-weight subsample.

Controlled hatchery growth

Lake growth

Period Growth

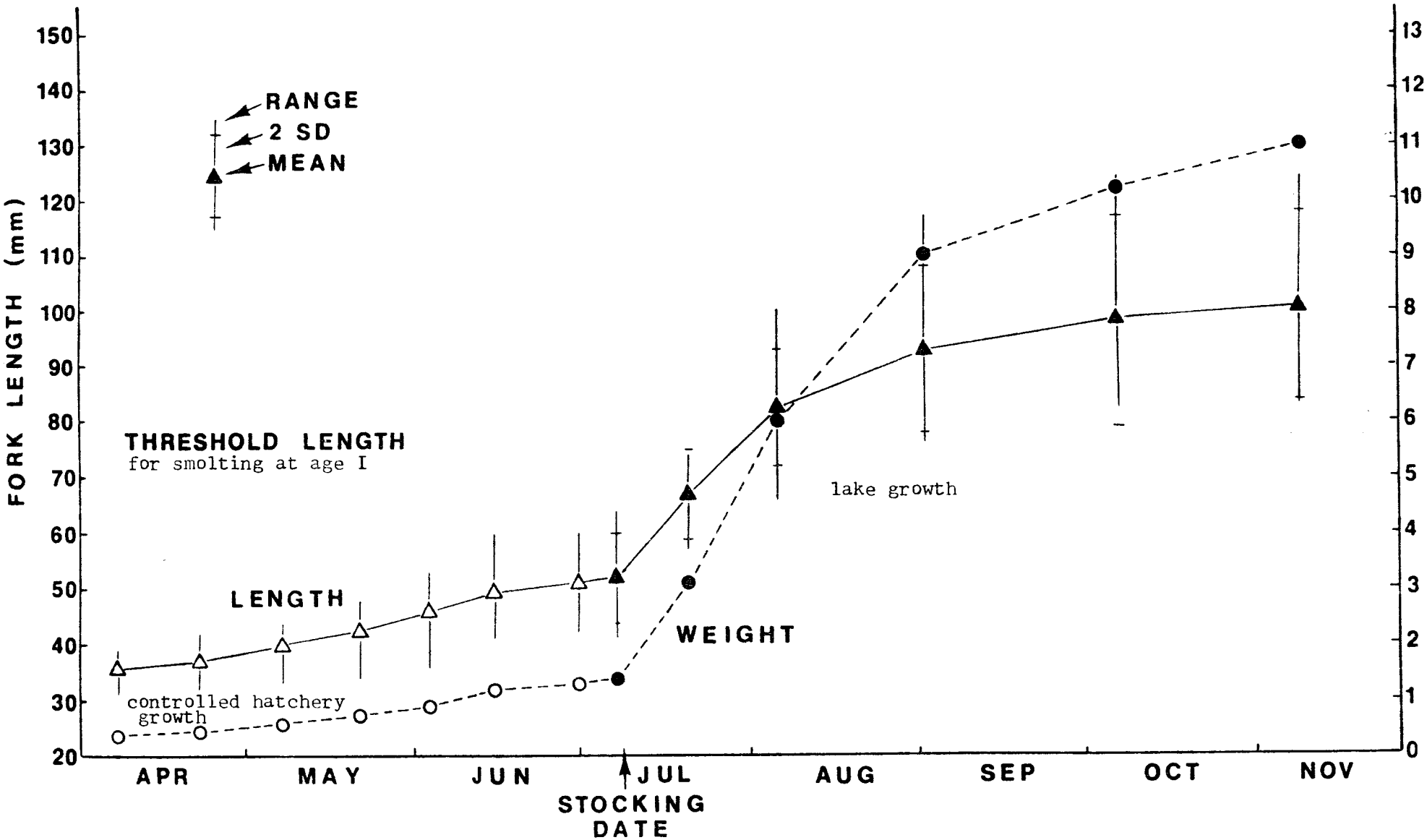
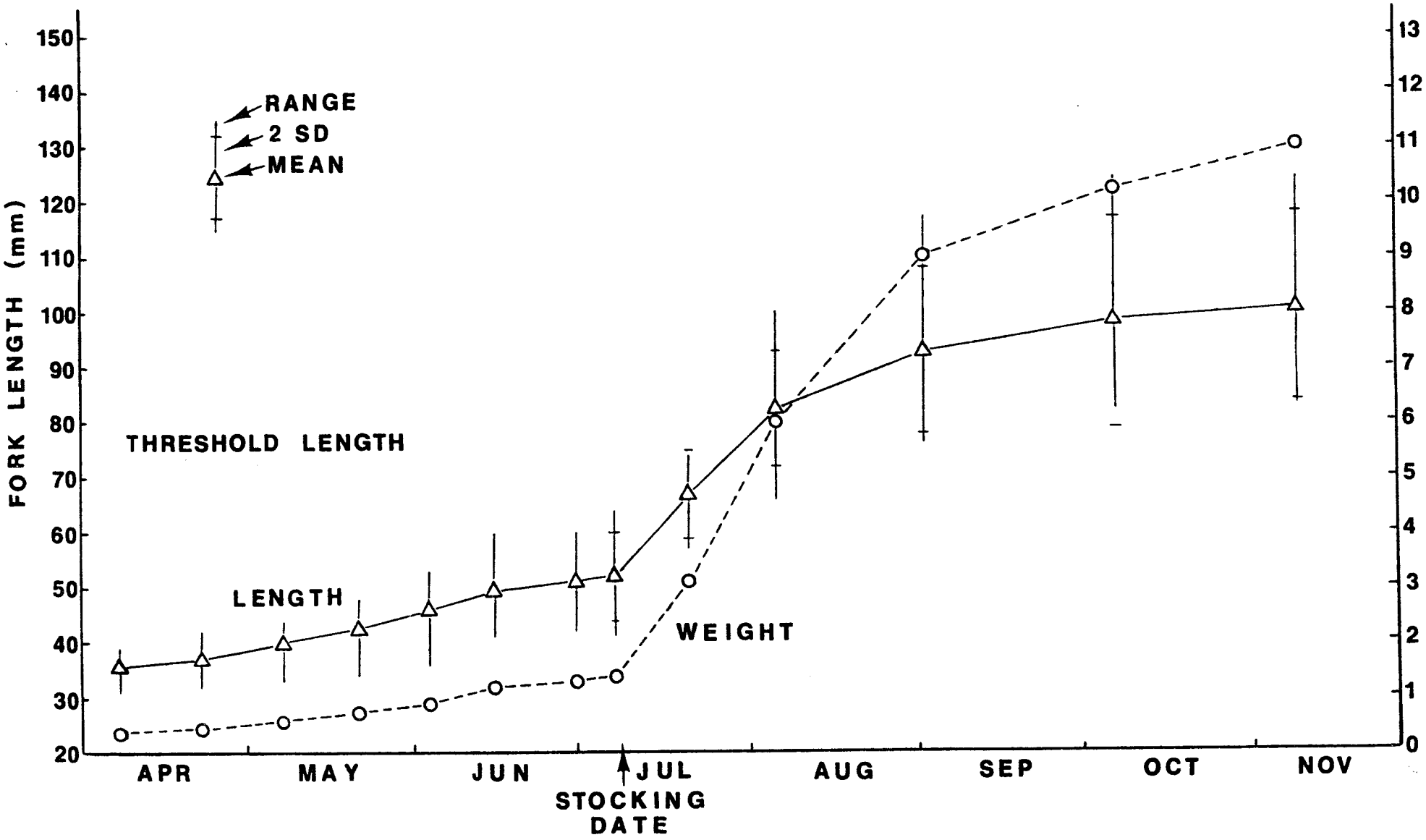


Figure 3. Estimated fork lengths and weights of the coho salmon population stocked in Sea Lion Cove Lake on 8 July 1982.

COHO GROWTH
"SEA LION COVE" LAKE



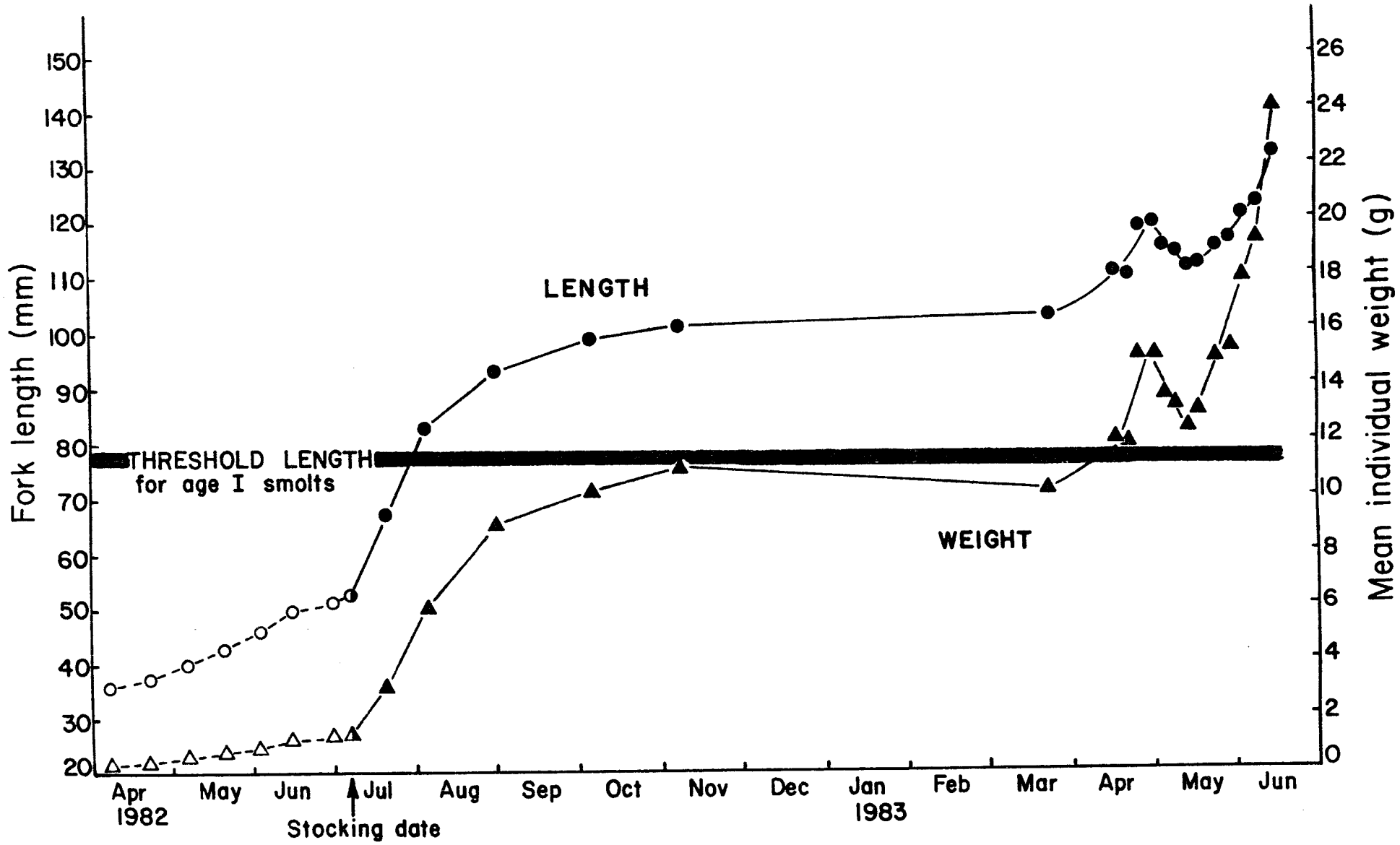
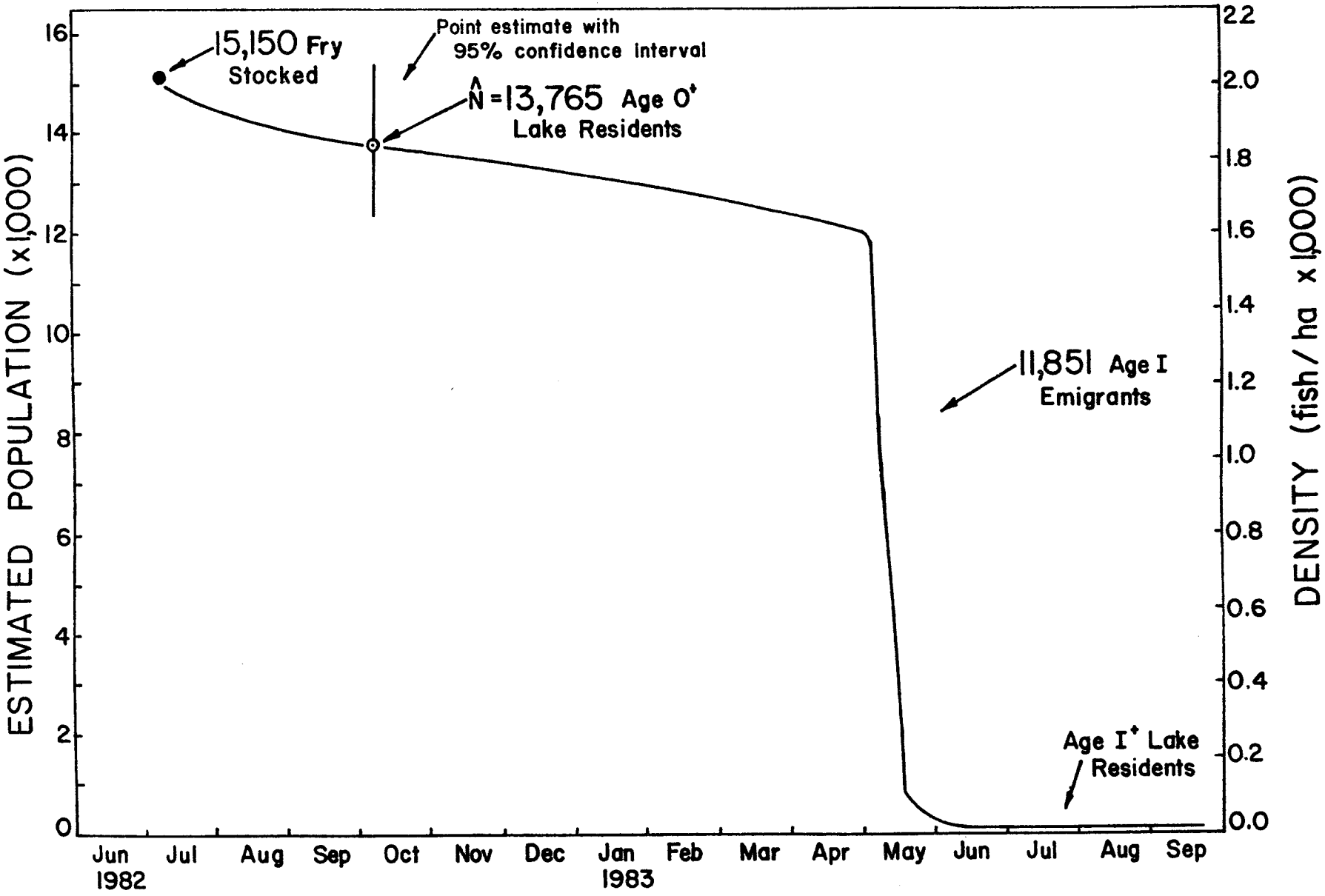

COHO GROWTH — "SEA LION COVE" LAKE
Fork length (mm)
Mean individual weight (g)
LENGTH
WEIGHT
THRESHOLD LENGTH
for age I smolts
Stocking date
Apr 1982
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Jan 1983
Feb
Mar
Apr
May
Jun
150
140
130
120
110
100
90
80
70
60
50
40
30
20
26
24
22
20
18
16
14
12
10
8
6
4
2
0

Table 2. Seasonal variation in the density and size of calanoid copepods, food selection by rearing coho, and coho growth in Sea Lion Cove Lake following the stocking of 15,150 coho salmon fry on 8 July 1982.

Sampling date(s)	Time since stocking (weeks)	Calanoid copepods		Abundant prey in coho stomachs	Coho salmon growth				
		Density (no./m^2)	Mean length (mm)		Mean fork length (mm)	Mean weight (g)	Interval between samples (days)	Average length change (mm/day)	Percentage weight gain per day (%)
7-9 July	0	19,019	1.8	Calanoid copepods & large cladocerans	52.2	1.4			
							12	1.2	6.8
20 July	2	27,340	1.9	Calanoid copepods, large cladocerans, & various insects	66.9	3.1			
							16	1.0	4.2
3-5 Aug.	4	38,206	1.3	Calanoid copepods, chironomid pupae, & other insects	82.4	6.0			
							27	0.4	1.5
1-2 Sept.	8	8,618	1.1	Trichopterans, chironomid pupae, small cladocerans, & gastropods	92.9	9.0			
							35	0.2	0.4
6-7 Oct.	13	11,038	1.2	- Not determined -	98.4	10.2			
14 Oct.	14	7,005	1.2	Gastropods, trichopterans, *Bosmina* sp., & chironomid larvae	- Not determined -		33	0.1	0.2
8-9 Nov.	18	4,585	1.2	Gastropods, chironomid larvae, & trichopterans	100.8	11.0			

"SEA LION COVE" LAKE COHO SURVIVAL CURVE



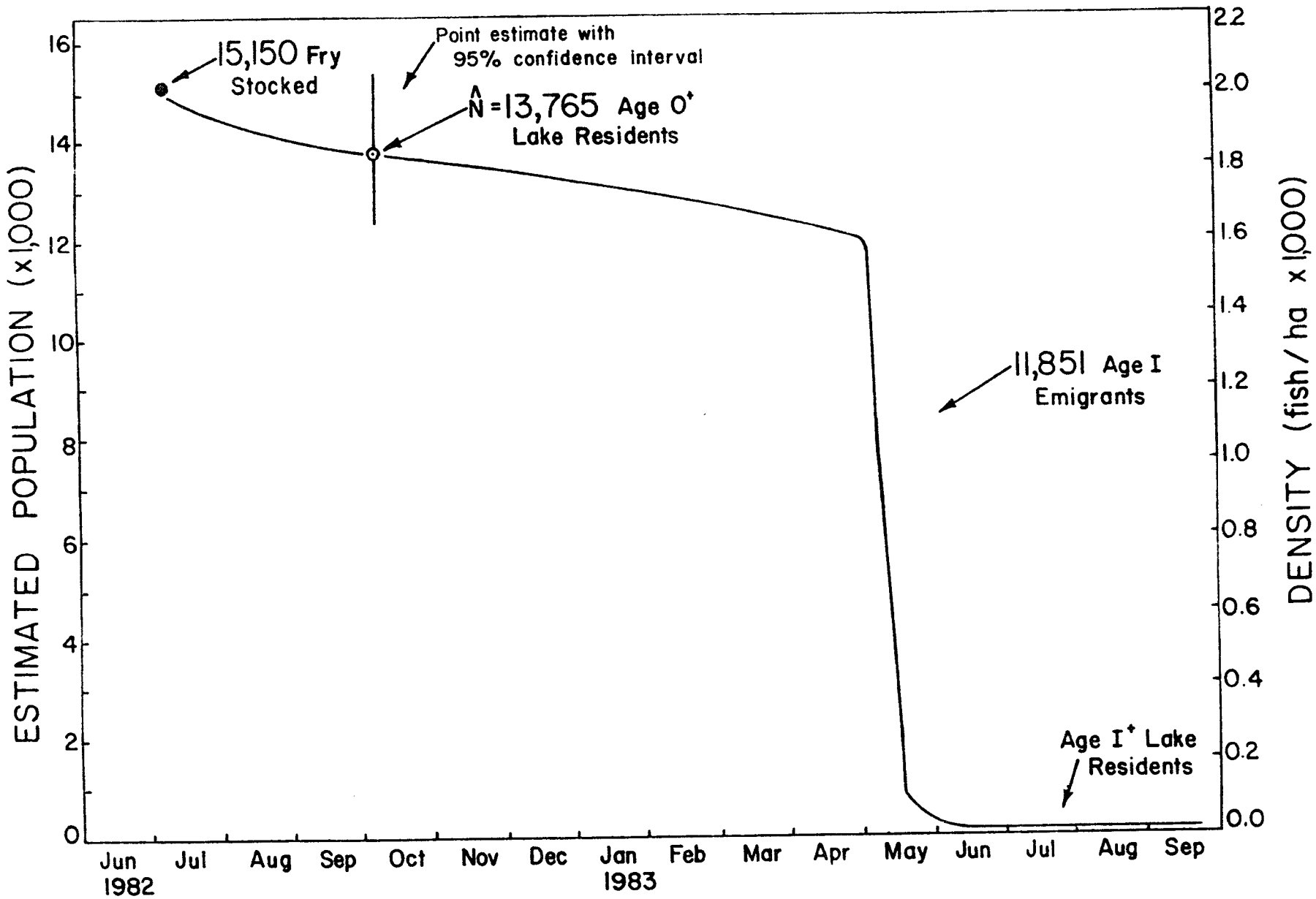
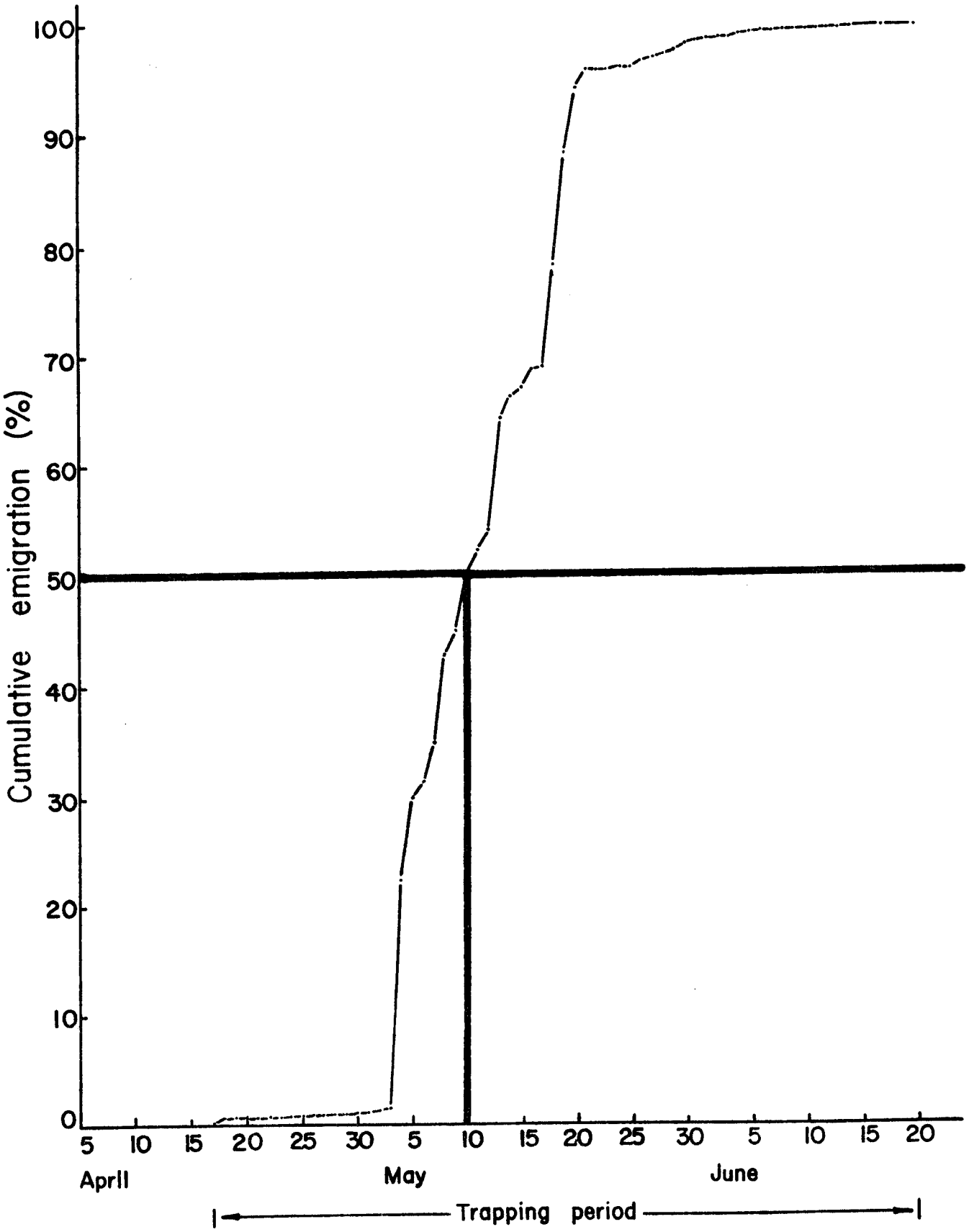


Figure 4. Best estimates of the number of juvenile coho salmon remaining in Sea Lion Cove Lake on successive dates following the 1982 stocking of fry.

"SEA LION COVE" LAKE 1983 AGE I SMOLTS