

**PRELIMINARY REPORT OF SALMON ENHANCEMENT
PRODUCTION IN JAPAN [1993]**

by

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Total juvenile salmon released from hatcheries stood at about 2.1 billion, but remained at about the 1983 level in 1993 (Table 1). Chum salmon releases in 1993 were approximately 92.6%, and pink salmon were approximately 6.5% of the total releases. The remaining releases were masu and sockeye salmon. The development stage of chum and pink salmon at release was the fry stage, it of masu and sockeye salmon contained fry, juvenile and smolt stages.

In 1993, adult salmon captured for the enhancement program totalled about 4.2 million, of which approximately 90.3% were chum salmon, and 9.3% were pink salmon (Table 2).

Table 1a. Production of artificially-reared anadromous juvenile salmonids by species and region in thousands of fish (Japan 1993).

Region Area	Species				
	Total	Sockeye	Chum	Pink	Masu
Hokkaido					
Pacific C.	661,577	1,060	608,132	49,929	2,456
Japan Sea C.	207,856	-	199,090	1,947	6,819
Okhotsk Sea C.	288,261	-	201,538	85,971	752
Honshu					
Pacific C.	730,792	-	728,034	-	2,758
Japan Sea C.	227,410	-	222,844	-	4,566
Total	2,115,896	1,060	1,959,638	137,847	17,351

Note: - = no production in this area

Table 1b. Production of artificially-reared anadromous juvenile salmonids by species and region in tonnes (Japan 1993).

Region Area	Species				
	Total	Sockeye	Chum	Pink	Masu ^a
Hokkaido					
Pacific C.	834	18	770	29	17
Japan Sea C.	231	-	195	1	35
Okhotsk Sea C.	236	-	195	37	4
Honshu					
Pacific C.	1,028	-	1,008	-	20
Japan Sea C.	253	-	218	-	35
Total	2,583	18	2,386	66	112

Note: - = no production in this area

Table 2a. Salmon adult capture in rivers by species and region in thousands of fish (Japan 1993).

Region Area	Species				
	Total	Sockeye	Chum	Pink	Masu
Hokkaido					
Pacific C.	1,585	2	1,448	132	3
Japan Sea C.	351	***	348	0	3
Okhotsk Sea C.	876	***	616	256	4
Honshu					
Pacific C.	1,144	***	1,143	***	1
Japan Sea C.	217	***	214	***	3
Total	4,173	2	3,769	388	14

Note: *** = no data available

Table 2b. Salmon adult capture in rivers by species and region in tonnes (Japan 1993).

Region Area	Species				
	Total	Sockeye	Chum	Pink	Masu
Hokkaido					
Pacific C.	5,177	3	4,880	291	3
Japan Sea C.	1,087	***	1,082	0	5
Okhotsk Sea C.	2,376	***	1,836	537	3
Honshu					
Pacific C.	3,910	***	3,909	***	1
Japan Sea C.	538	***	533	***	5
Total	13,088	3	12,240	828	17

Note: *** = no data available