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# **Preliminary 2002 Salmon Enhancement Production in Japan**

by

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## **Preliminary 2002 Salmon Enhancement Production in Japan**

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Four species of Pacific salmon (chum, pink, masu, and sockeye salmon) are currently enhanced in Japan. A total of 2,008 million juveniles and smolts were released from Japanese hatcheries in 2002 (Tables 1 and 2). Approximately 1,852 million chum salmon fry were released in the spring of 2002, the almost same level as in the previous year. Japanese hatcheries also released 145 million pink salmon fry, 12,089 thousand juveniles and smolts of masu salmon, and 200 thousand juveniles and smolts of sockeye salmon.

In 2002, a total of 5,256 thousand adult salmon were captured in rivers along the Japanese coasts (Tables 3 and 4). Chum and pink salmon accounted for 77.2 % and 22.5 % of the total river catches, respectively. Within Hokkaido, the number of adult returns was 12,383 fishes for anadromous masu salmon, and 198 fishes for anadromous sockeye salmon. The adult returns of masu salmon improved from the extreme low level (4,126 fishes) in the previous year.

**Table 1.** Number (in thousands) of anadromous salmon releases from Japanese hatcheries in 2002.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	666,560	200.0	614,502	51,150	708.3
Japan Sea Coast	195,817	0	190,021	0	5,795.5
Okhotsk Sea Coast	308,930	0	214,407	93,632	891.1
<b>Honshu</b>					
Pacific Coast	645,435	0	644,982	0	453.3
Japan Sea Coast	191,917	0	187,676	0	4,241.1
<b>Total</b>	<b>2,008,659</b>	<b>200.0</b>	<b>1,851,588</b>	<b>144,782</b>	<b>12,089.3</b>

**Table 2.** Weight (in tonnes) of anadromous salmon releases from Japanese hatcheries in 2002.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	934.3	3.4	888.7	35.1	7.1
Japan Sea Coast	283.0	0	230.7	0	52.3
Okhotsk Sea Coast	282.9	0	241.5	35.4	6.0
<b>Honshu</b>					
Pacific Coast	901.4	0	891.2	0	10.2
Japan Sea Coast	227.3	0	200.2	0	27.1
<b>Total</b>	<b>2,628.9</b>	<b>3.4</b>	<b>2,452.3</b>	<b>70.5</b>	<b>102.7</b>

**Table 3.** Number (in thousands) of adult salmon caught in rivers along Japanese coasts in 2002.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	1,164.0	0.2	983.5	180.0	0.3
Japan Sea Coast	371.5	**	364.4		7.1
Okhotsk Sea Coast	1,991.9	**	985.6	1001.3	5.0
<b>Honshu</b>					
Pacific Coast	1,351.3	**	1,351.3	**	**
Japan Sea Coast	377.5	**	377.5	**	**
<b>Total</b>	<b>5,256.2</b>	<b>0.2</b>	<b>4,062.3</b>	<b>1181.3</b>	<b>12.4</b>

\*\* Data not available.

**Table 4.** Weight (in tonnes) of adult salmon caught in rivers along Japanese coasts in 2002.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	4,322.3	0.2	3,980.6	341.1	0.4
Japan Sea Coast	1,365.1	**	1,348.8		16.3
Okhotsk Sea Coast	6,081.4	**	4,160.8	1,915.0	5.6
<b>Honshu</b>					
Pacific Coast	5,245.3	**	5,245.3	**	**
Japan Sea Coast	1,430.7	**	1,430.7	**	**
<b>Total</b>	<b>18,444.8</b>	<b>0.2</b>	<b>16,166.2</b>	<b>2,256.1</b>	<b>22.3</b>

\*\* Data not available.