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# **Preliminary 2010 Salmon Enhancement Production in Japan**

by

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## **Preliminary 2010 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 2,012 million juveniles and smolts were released from Japanese hatcheries in 2010 (Tables 1 and 2). Approximately 1,852 million chum salmon fry were released in the spring of 2010, the almost same level as in the previous year. Japanese hatcheries also released 145 million pink salmon fry, 14,894 thousand juveniles and smolts of masu salmon, and 345 thousand juveniles and smolts of sockeye salmon.

In 2010, the number of adult salmon captured in rivers along the Japanese coasts was 5,516 thousand fish (Table 3), which corresponded to 17,776 metric tonnes in weight (Table 4). The dominant and second dominant species were chum and pink salmon, contributing 84.1% and 15.8% in numbers of all salmon captured in rivers, respectively. Adult masu salmon are found in rivers of both Hokkaido and Honshu, but the number of them was not available for rivers in Honshu. The number of adult returns of masu salmon in Hokkaido was approximately 5.2 thousand fish. Anadromous sockeye salmon were caught in a few rivers in Hokkaido, and the number of catches was approximately 1.1 thousand fish.

**Table 1.** Number (in thousands) of anadromous salmon released from Japanese hatcheries in 2010.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	667,656	345	617,446	49,156	709
Japan Sea Coast	194,538		188,605		5,933
Okhotsk Sea Coast	328,911		232,159	95,530	1,222
<b>Honshu</b>					
Pacific Coast	655,822		654,796		1,026
Japan Sea Coast	164,656		158,652		6,004
<b>Total</b>	<b>2,011,583</b>	<b>345</b>	<b>1,851,658</b>	<b>144,686</b>	<b>14,894</b>

**Table 2.** Weight (in tonnes) of anadromous salmon released from Japanese hatcheries in 2010.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	925.3	4.7	902.6	14.6	3.4
Japan Sea Coast	295.5		236.9		58.6
Okhotsk Sea Coast	353.3		315.0	32.2	6.1
<b>Honshu</b>					
Pacific Coast	963.1		953.5 *		9.6
Japan Sea Coast	190.1		164.5		25.6
<b>Total</b>	<b>2,727.3</b>	<b>4.7</b>	<b>2,572.5</b>	<b>46.8</b>	<b>103.3</b>

\* The total weight of chum salmon released from the Pacific coast of Honshu is a provisional value, including the estimated weight (45.2 tonnes) in Fukushima Prefecture by using the mean weight (0.97 g) of chum salmon fry released in 2005-2007.

**Table 3.** Number (in thousands) of adult salmon caught in rivers along Japanese coasts in 2010.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	922.6	1.1	835.0	85.2	1.3
Japan Sea Coast	363.3		362.4		0.9
Okhotsk Sea Coast	2791.5		2,002.0	786.5	3.0
<b>Honshu</b>					
Pacific Coast	1059.3		1,059.3		NA *
Japan Sea Coast	378.8		378.8		NA *
<b>Total</b>	<b>5,515.5</b>	<b>1.1</b>	<b>4,637.5</b>	<b>871.7</b>	<b>5.2</b>

\*NA, Data not available.

**Table 4.** Weight (in tonnes) of adult salmon caught in rivers along Japanese coasts in 2010.

Area	Total	Species			
		Sockeye	Chum	Pink	Masu
<b>Hokkaido</b>					
Pacific Coast	3,124.5	1.1	2,970.7	151.5	1.2
Japan Sea Coast	1,147.0		1,145.3		1.7
Okhotsk Sea Coast	8,237.1		7,006.8	1,227.0	3.3
<b>Honshu</b>					
Pacific Coast	3,930.1		3,930.1		NA *
Japan Sea Coast	1,337.3		1,337.3		NA *
<b>Total</b>	<b>17,776.0</b>	<b>1.1</b>	<b>16,390.2</b>	<b>1,378.5</b>	<b>6.2</b>

\*NA, Data not available.