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Preliminary 2001 Salmon Enhancement Production in Japan

by

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Preliminary 2001 Salmon Enhancement Production in Japan

National Salmon Resources Center

Four species of Pacific salmon (chum, pink, masu, and sockeye salmon) are currently enhanced in Japan. A total of 1,989 million juveniles and smolts were released from Japanese hatcheries in 2001 (Tables 1 and 2). Approximately 1,831 million chum salmon fry were released in the spring of 2001, the almost same level as in the previous year. Japanese hatcheries also released 143 million pink salmon fry, 15,041 thousand juveniles and smolts of masu salmon, and 220 thousand juveniles and smolts of sockeye salmon.

In 2001, a total of 4,055 thousand adult salmon were captured in rivers along the Japanese coasts (Tables 3 and 4). Chum and pink salmon accounted for 89.9 % and 10.0 % of the total river catches, respectively. Within Hokkaido, the number of adult returns was 4,126 fishes for anadromous masu salmon, and 130 fishes for anadromous sockeye salmon. The adult returns of both species extremely reduced from the previous year.

Table 1. Number (in thousands) of anadromous salmon releases from Japanese hatcheries in 2001.

| Area | Total | Species | | | |
|-------------------|------------------|--------------|------------------|----------------|-----------------|
| | | Sockeye | Chum | Pink | Masu |
| Hokkaido | | | | | |
| Pacific Coast | 651,088 | 220.0 | 601,689 | 48,470 | 709.0 |
| Japan Sea Coast | 204,512 | 0 | 195,909 | 0 | 8,603.0 |
| Okhotsk Sea Coast | 315,006 | 0 | 219,750 | 94,254 | 1,002.0 |
| Honshu | | | | | |
| Pacific Coast | 640,157 | 0 | 639,862 | 0 | 295.0 |
| Japan Sea Coast | 178,374 | 0 | 173,942 | 0 | 4,432.0 |
| Total | 1,989,137 | 220.0 | 1,831,152 | 142,724 | 15,041.0 |

Table 2. Weight (in tonnes) of anadromous salmon releases from Japanese hatcheries in 2001.

| Area | Total | Species | | | |
|-------------------|----------------|------------|----------------|-------------|-------------|
| | | Sockeye | Chum | Pink | Masu |
| Hokkaido | | | | | |
| Pacific Coast | 801.0 | 3.5 | 764.1 | 28.1 | 5.2 |
| Japan Sea Coast | 245.7 | 0 | 180.2 | 0 | 65.5 |
| Okhotsk Sea Coast | 240.6 | 0 | 202.2 | 33.0 | 5.4 |
| Honshu | | | | | |
| Pacific Coast | 851.7 | 0 | 844.7 | 0 | 7.1 |
| Japan Sea Coast | 173.9 | 0 | 173.9 | 0 | ** |
| Total | 2,312.9 | 3.5 | 2,165.1 | 61.1 | 83.2 |

** Data not available

Table 3. Number (in thousands) of adult salmon caught in rivers along Japanese coasts in 2001.

| Area | Total | Species | | | |
|-------------------|----------------|------------|----------------|--------------|------------|
| | | Sockeye | Chum | Pink | Masu |
| Hokkaido | | | | | |
| Pacific Coast | 1,417.6 | 0.1 | 1,328.8 | 88.4 | 0.3 |
| Japan Sea Coast | 403.2 | ** | 402.2 | 0 | 1.1 |
| Okhotsk Sea Coast | 817.7 | ** | 497.9 | 317.1 | 2.8 |
| Honshu | | | | | |
| Pacific Coast | 1,077.1 | ** | 1,077.1 | ** | ** |
| Japan Sea Coast | 339.4 | ** | 339.4 | ** | ** |
| Total | 4,055.1 | 0.1 | 3,645.3 | 405.5 | 4.1 |

** Data not available.

Table 4. Weight (in tonnes) of adult salmon caught in rivers along Japanese coasts in 2001.

| Area | Total | Species | | | |
|-------------------|-----------------|------------|-----------------|--------------|------------|
| | | Sockeye | Chum | Pink | Masu |
| Hokkaido | | | | | |
| Pacific Coast | 4,808.9 | 0.5 | 4,664.0 | 144.2 | 0.2 |
| Japan Sea Coast | 1,300.9 | ** | 1,299.1 | 0 | 1.7 |
| Okhotsk Sea Coast | 2,253.7 | ** | 1,747.5 | 504.1 | 2.1 |
| Honshu | | | | | |
| Pacific Coast | 3,468.3 | ** | 3,468.3 | ** | ** |
| Japan Sea Coast | 1,252.3 | ** | 1,252.3 | ** | ** |
| Total | 13,084.1 | 0.5 | 12,431.2 | 648.3 | 4.1 |

** Data not available.