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Releases and recoveries of Coded Wire Tag for Chum Salmon in Korea in 2006 and 2007

by

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Abstract

Korea has released CWT tagged juvenile chum salmon since 2003 and ninety-two CWT chum salmon were recovered at Yangyang hatchery during the spawning seasons in 2006. Among 92 chum salmon, 43 salmon were male and 49 were female. Most salmon sampled were age 3 (44 %) and age 4 (50%), which were released in 2004 and 2003.

Releases of juvenile chum salmon with CWT

Korea released tagged juvenile chum salmon using coded wire tags (CWT) and clipped adipose fins since 2003 to determine the optimum period of release of juvenile and to collect information on ocean migration of juvenile chum salmon.

In 2007, 100,000 chum salmon with coded wire tag (CWT) and clipped adipose fin were released at Namdae-cheon (Table 1). The intervals of the date of released were about 2~3 weeks.

Table1. Coded Wire Tag (CWT) information released from Korea

	2003	2004	2005	2006	2007
Code number	279001	279003	279005	279007	279009
	279002	279004	279006	279008	279010
Date of Released	Feb. 28 and Mar. 19	Mar. 3 and Mar. 25	Mar. 3 and Mar. 17	Mar. 6 and Mar. 23	Feb. 28 and Mar. 19
Range of fork length (cm)	3.7~5.2	4.7~6.6	3.4~5.7	4.1~4.7	<5.0
Number of released	91,458	100,000	100,000	100,000	100,000

CWT recoveries

The CWTs were recovered from the spawning season of 2006, and 92 chum salmon with CWT were collected at Yangyang hatchery. Among 92 chum salmon, 43 salmon were male and 49 were female. The fork lengths of chum salmon at each age were 53.2 cm (age 2), 60.4 cm (age 3), and 64.8 cm (age 4). Body weight of age 2 chum salmon was 1.5 kg and those of age 3 and 4 chum salmon were 2.2 kg and 2.7 kg, respectively.

Most chum salmon sampled were age 3 and age 4 released in 2004 and 2003. Only 6 of

92 were released in 2005. The return rate of chum salmon released in mid or late March was apparently higher (65 %) than that (35 %) in February or early March. Age 2 chum salmon, having CWT 279005 and CWT 279006 were all male.

Table2. Information on CWT tagged chum salmon caught in 2005

CWT number	# of catch (percent)	female	male	released month and year	age
279001	11 (12%)	8	3	Feb. 2003	4
279002	35 (38%)	20	15	mid March 2003	4
279003	19 (21%)	10	9	early March 2004	3
279004	21 (23%)	11	10	late March 2004	3
279005	2 (2%)	0	2	early March 2004	2
279006	4 (4%)	0	4	mid March 2004	2
total	92 (100%)	49	43		