

**Review of 2006-2010 Korean Research**

by

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The first salmon hatchery in Korea was built in Kowon, Hamkyungnamdo in 1913. Modern fish culture in Korea began when hatcheries were established on the Milyang River of Kyungsangnamdo and on the Osip River in Samcheok City in 1967. The Cold-water Fish Research was established in 1984.

Hatchery produced chum salmon are released in 18 streams on the east coast of Korea. Through the period from 1970 to 2010, the number of juvenile chum salmon released from hatchery programs increased from 600,000 to 21,500,000. The number of chum salmon harvested in freshwater has increased from 410 in 1970 to 37,000 in 2002. An average total of 120,000 chum salmon have been harvested in Korean waters annually since 1990, when set nets were first deployed in marine waters to harvest these fish. Through this period the rate of survival of juvenile chum salmon at release to adult has ranged from 0.2% to 1.5%.

Adult chum salmon were captured from October through November of each year. After capture, male and female fish were sorted and artificial fertilized.

The juveniles were released between March and April as they reached about 1 g in weight. We released some juveniles into the Namdae River through the fishway linking the institute to the river, while others were transported to other rivers for release.

Korea has released CWT tagged juvenile chum salmon since 2003 and CWT chum salmon were recovered at Namdae-cheon and harbor of coastal area (set net) during the spawning seasons . Most chum salmon sampled were age 3 and age 4.

Otolith thermal marking on Korea chum salmon will be carried out to provide information about growth, survival during the early ocean life stage, and hatchery origins from 2005 brood. Korea released 2.2 million thermal marked chum salmon in March 2006 and 5.0 million in March 2007 and 5.0 million in March 2008 and 1.2 million in March 2009 and 6.0 million in March 2010. The marks were 3,3nH for 2005 Brood Year (BY), 3,1,2H for 2006 BY, and 3,2,1H for 2007 BY. Korea have total 3 patterns.

Korea has total 54,000 of cherry salmon smolt was released in to Namdae-cheon from 2006 to 2009.