

**DEPARTMENT OF FISH AND GAME**

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**FISH PATHOLOGIST REPORT****Location**

Iron Gate Hatchery

**Date**

June 16, 2010

**Species**

Fall run Chinook (June release)

**Ponds**

Outside raceways

**Fish Health Assessment**

Twenty fish were selected for assessment of over-all health. These 20 fish scored nearly perfectly and appeared in excellent health. The average weight of fish was 6.0 grams and the average length was 85.0 mm. The average length-weight condition factor was 1.0 (see raw data on accompanying Excel spreadsheet). All of the fish examined had seemingly perfect fins (no erosions at all), skin, gills, eyes (one fish had a cloudy eye), pseudobranchs, thymus, gastrointestinal tracts (all had food in tract), kidneys and livers. The average hematocrit (packed blood cell volume) was 48.7% (in acceptable range) and the average plasma protein concentration was 5.2 g/dL (also in acceptable range). The average mesenteric fat score was 1.1, indicating fish had some fat reserves. All fish scored a "1" on smolt index indicating that the fish are readying for outmigration, but will develop further. The overall score was 0.05, a perfect score, save for the one fish with a cloudy eye. These fish appear healthy, properly developed and ready for outmigration.

**Comments**

Water temp is 58°F.

Submitted By: Mark Clifford, Ph.D., Associate Fish Pathologist, CDFG