



Fish Health Laboratory  
2111 Nimbus Road  
Rancho Cordova, CA 95670  
Phone: (916) 358-1479  
Fax: (916) 358-2825



## FISH PATHOLOGIST REPORT

### Location

Nimbus Hatchery

### Date

May 5, 2010

### Species

Fall-Run Chinook

### Ponds

Raceways A through F

## Fish Health Assessment

Twenty fish were randomly selected and assessed for over-all health condition. These fish scored very well and appeared in excellent health. The average weight of fish was 8.0 grams and the average length was 93.5 mm. The average length-weight condition factor was 1.0 (see raw data on accompanying Excel spreadsheet). All fish had perfect fins, skin, gills, eyes, pseudobranchs, thymus, gastrointestinal tracts (all had food in tract), kidneys, and livers. The average hematocrit (packed blood cell volume) was 47.7% (in acceptable range) and the average plasma protein concentration was 5.2 g/dL (also in acceptable range).

The average mesenteric fat score was "1.5" while an average score closer to "2" would indicate more fat reserves. The average smolt index score was 0.9 indicating that most fish still have parr marks but are going through the smoltification process. The overall score was 0.0, a perfect score, though a little more fat reserves and a little more time for maturation might result in higher chance of survival and outmigration.

From a fish health standpoint these fish are acceptable for release.

### Comments

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