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## FISH PATHOLOGIST REPORT

### Location

Iron Gate Hatchery

### Date

October 20, 2010

### Species

Fall Chinook yearlings

### Ponds

D and H series

## Fish Health Assessment

Sixty fish were randomly selected for annual disease certification. The first 30 fish were from H series including 20 randomly selected and scored for health assessment. The second 30 fish were from D series of which 20 were randomly selected and scored for health assessment. All 60 fish were euthanized for parasitology, virology and bacteriology certification.

Health assessment D series: The average weight of fish was 37.1 grams and the average length was 160.5 mm. The average length-weight condition factor was 0.9. One fish had an eroded caudal fin. All fish had seemingly perfect eyes, skin, gills, pseudobranchs, thymus, gastrointestinal tracts (all had food in tract), spleens, kidneys and livers. The average hematocrit (packed blood cell volume) was 46.4% (in acceptable range) and the average plasma protein concentration was 5.0 g/dL (also in acceptable range). The average mesenteric fat score was "1.5" indicating a proper amount of fat reserves. The average smolt index score was 0.0 indicating that all fish are very much readying for outmigration. The overall score was 0.05 (a perfect score is 0.0).

Health assessment H series: The average weight of fish was 37.6 grams and the average length was 156.4 mm. The average length-weight condition factor was 1.0. One fish had some missing scales. All fish had seemingly perfect eyes, fins, gills, pseudobranchs, thymus, gastrointestinal tracts (all had food in tract), spleens, kidneys and livers. The average hematocrit (packed blood cell volume) was 47.9% (in acceptable range) and the average plasma protein concentration was 5.4 g/dL (also in acceptable range). The average mesenteric fat score was "1.6" indicating a proper amount of fat reserves. The average smolt index score was 0.0 indicating that all fish are very much readying for outmigration. The overall score was 0.05 (a perfect score is 0.0).

Fish in both series appear healthy and ready for release.

### Comments

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