

**DEPARTMENT OF FISH AND GAME**

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

Trinity River Hatchery

Date

March 9, 2011

Species

Coho Yearlings

Fish Health Assessment

Twenty fish were randomly selected and assessed for over-all health condition. These fish scored well and were in over-all excellent health. The average weight of fish was 69.8 grams and the average length was 187.5 mm. The average length-weight condition factor was 1.0 (see raw data on accompanying Excel spreadsheet). With the exception of minor fin erosion on 2 fish, all fish had seemingly perfect skin, fins, gills, eyes, pseudobranchs, thymus, gastrointestinal tracts (all had food in tract), kidneys, spleens and livers. The average hematocrit (packed blood cell volume) was 50.5% (in acceptable range) and the average plasma protein concentration was 5.6 g/dL (also in acceptable range). The average mesenteric fat score was 2.25 while the average smolt index was 0.45 indicating that these fish are readying for outmigration. The overall score was 0.1, with 0.0 being a perfect score. In conclusion, these fish appear healthy and ready for release. No sign of bacterial kidney disease (BKD) in these fish, though kidney samples from 60 fish in this group were submitted for BKD analysis.

Comments

Water temp is 44°F.

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