

## MEMORANDUM

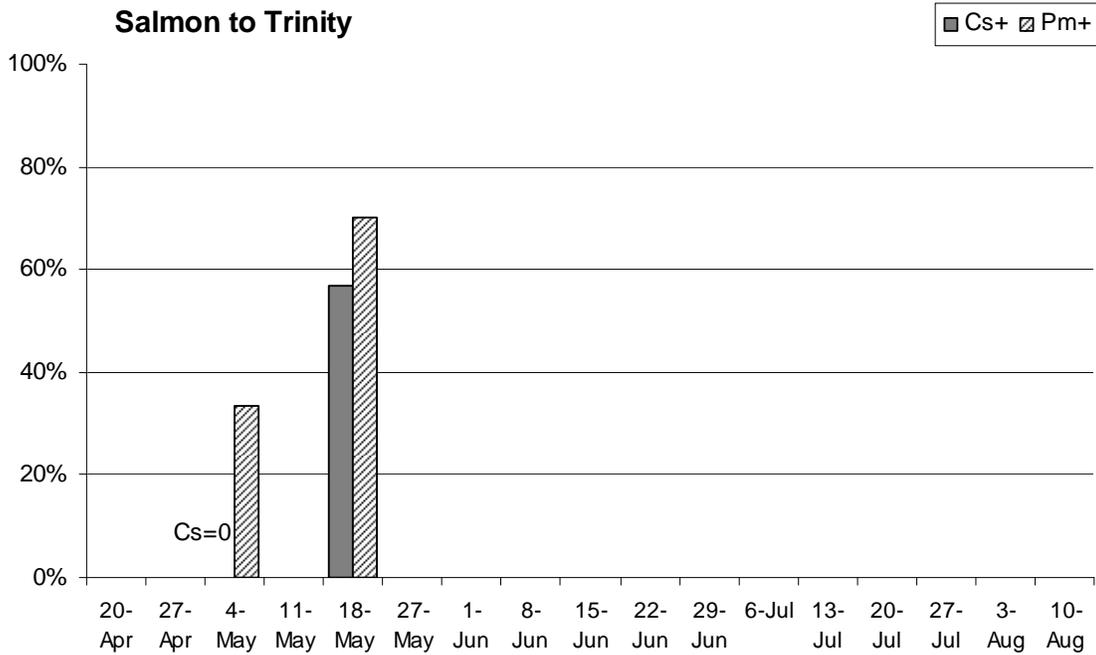
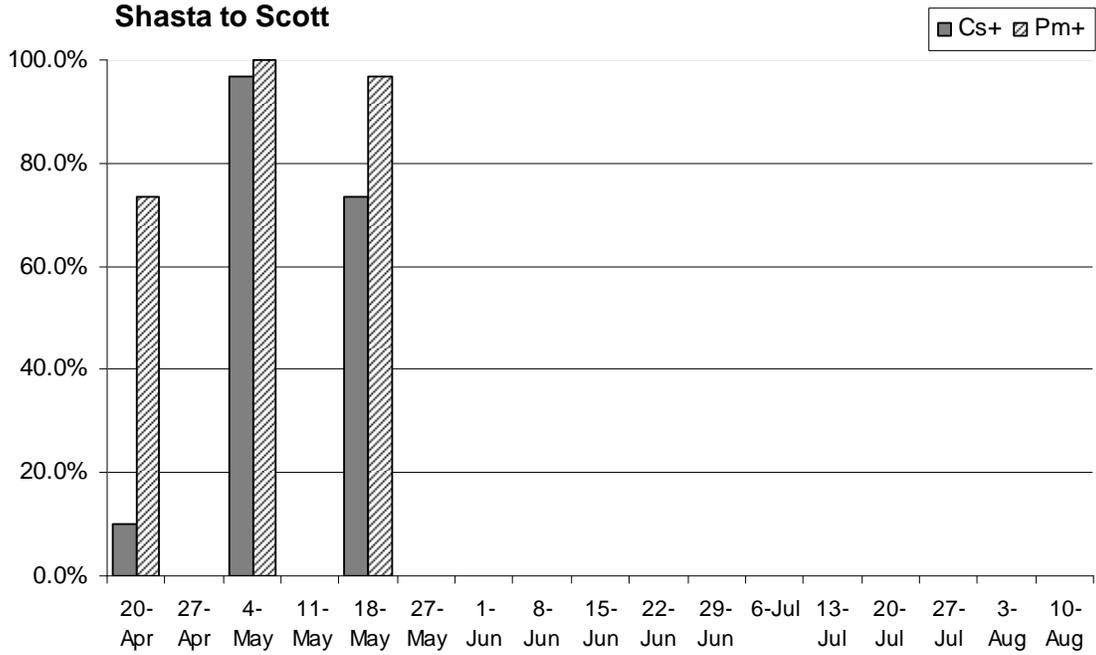
**DATE:** 7/06/2009

**TO:** Nick Hetrick, AFWO  
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**SUBJECT:** 2009 Klamath River Salmonid Health Monitoring

As a component of Klamath River fish health assessment, the California-Nevada Fish Health Center is examining juvenile Klamath River Chinook Salmon to monitor the incidence of *Ceratomyxa shasta* and *Parvicapsula minibicornis* infection. Fish are collected by biologists with the Karuk Tribe, Yurok Tribe, Hoopa Tribe and US Fish and Wildlife Service. The Fish Health Center is providing laboratory support for the project. Sampling began the week of April 20 and is planned to continue through early August 2009.

Pathogen testing by QPCR has been performed for fish collected through 22 May and is summarized in Figure 1. *Ceratomyxa shasta* has been detected in 47% (71/150) and *Parvicapsula minibicornis* has been detected in 75% (112/150) of Klamath Chinook. The next update will be available after July 15.



**Figure 1. Weekly incidence of *Ceratomyxa shasta* and *Parvicapsula minibicornis* infection in juvenile Klamath River Chinook Salmon captured in two reaches on the Klamath River (Shasta to Scott Rivers and Salmon River to Trinity Rivers). Thirty fish were assayed for each pathogen for all dates given. All data is preliminary and subject to revision.**