

## MEMORANDUM

**DATE:** June 20, 2013

**TO:** Nick Hetrick, Arcata FWO

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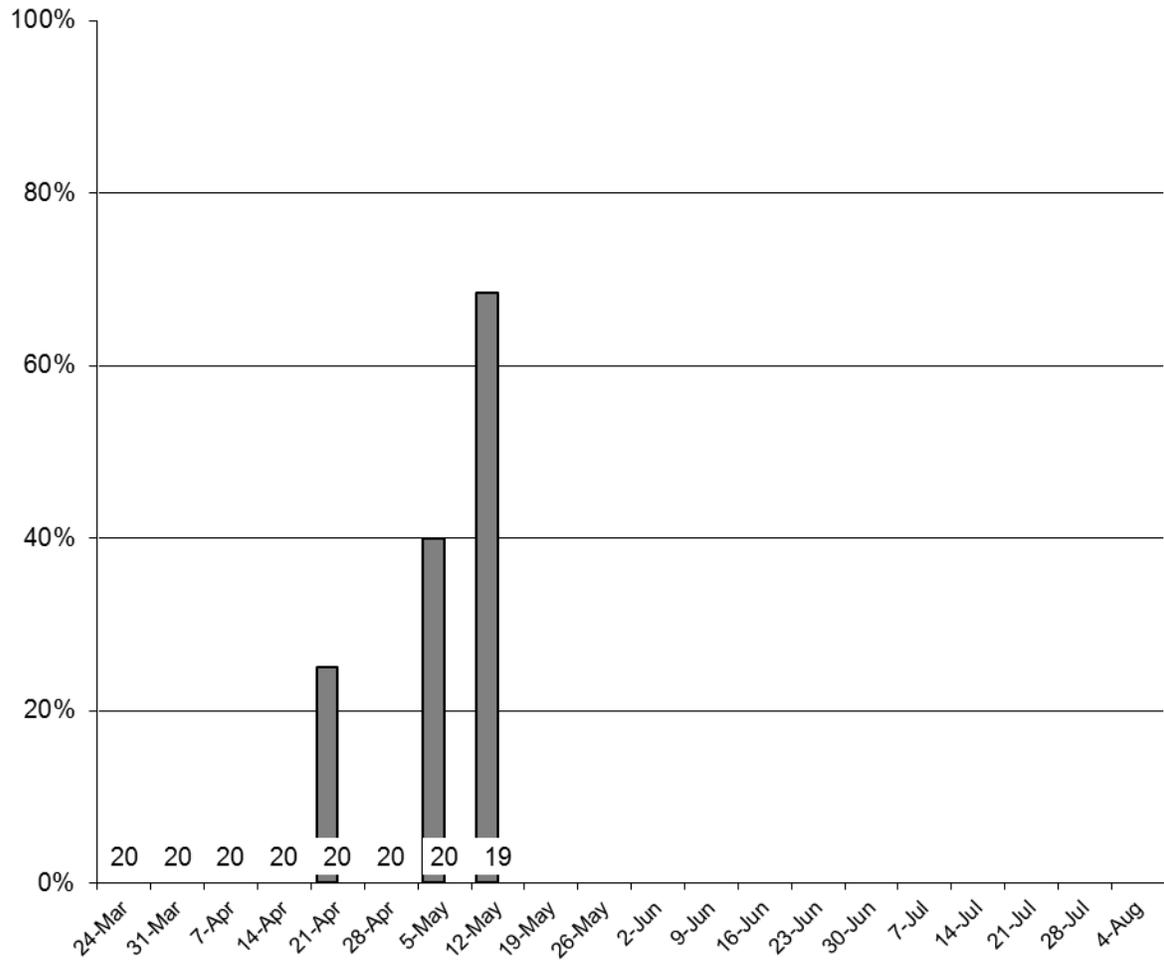
**SUBJECT: 2013 Klamath River Juvenile Chinook Salmon Health Monitoring**

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 prevalence of *Ceratomyxa shasta* and *Parvicapsula minibicornis* infection. Fish are collected by biologists with the Karuk Tribe, Yurok Tribe, and US Fish and Wildlife Service. The CA-NV Fish Health Center is coordinating disease monitoring efforts and providing laboratory support for the project.

To date, QPCR testing has been performed for natural fish collected from 28 March through 16 May for the Shasta to Scott (K4) reach, and from 9 April through 14 May for the Scott to Salmon (K3) reach. Iron Gate Hatchery initiated Fall Chinook salmon releases on May 22<sup>nd</sup>. Sampling emphasis has now shifted to recovery of coded-wire tagged Chinook.

Data are summarized by weekly sample date for K4 and K3 reaches in Figure 1 and 2. Data for K2 is not graphed (*C. shasta* was not detected in 20 fish collected week of 7 April). *Ceratomyxa shasta* has been detected in 17.5% (53/302) of natural fish tested to date. No clinical disease signs have been observed during necropsy of natural Fall Chinook salmon to date. *Parvicapsula minibicornis* assays are pending. All data are preliminary and subject to revision.

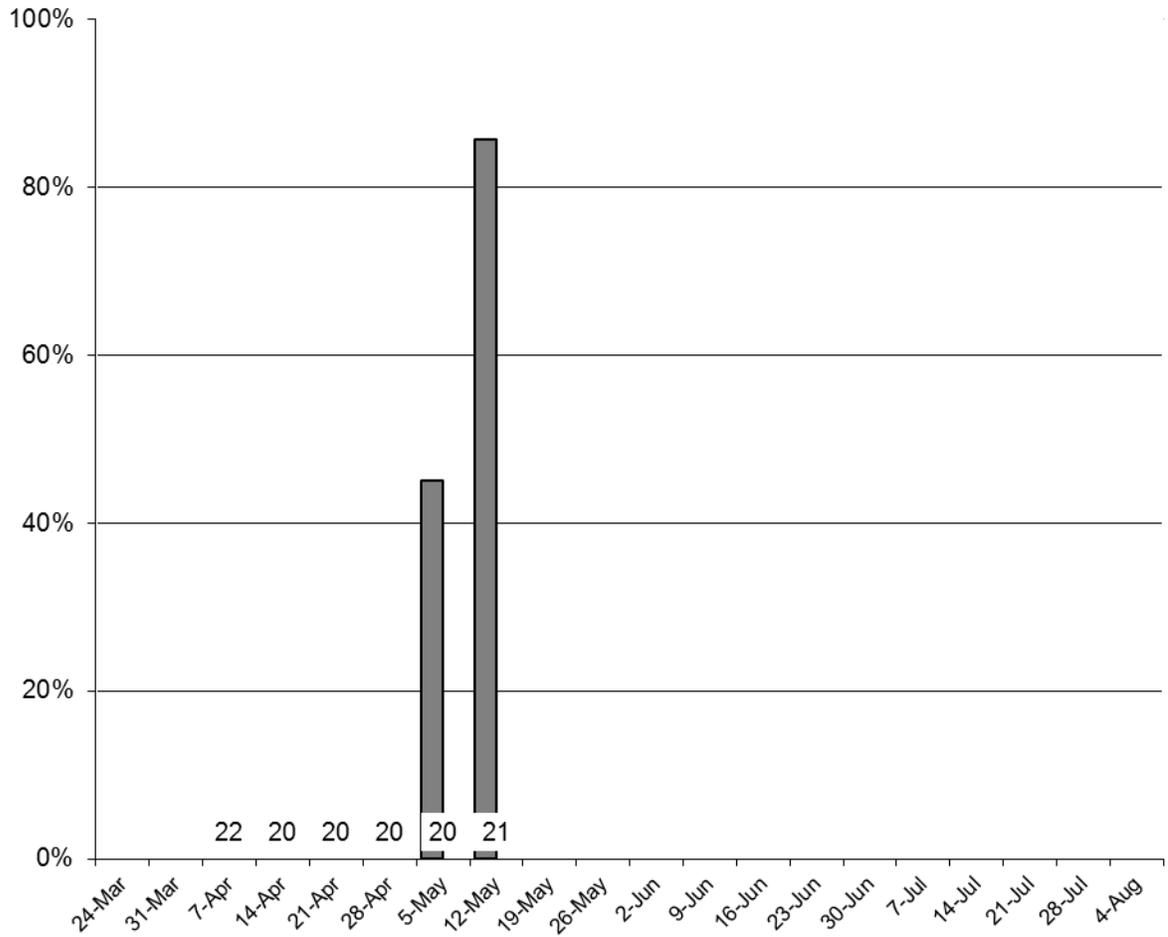
### Shasta to Scott



Weekly Date	Total Number of Samples (N)	Number Cs Positive
24 Mar	20	0
31 Mar	20	0
7 Apr	20	0
14 Apr	20	0
21 Apr	20	5
28 Apr	20	0
5 May	20	8
12 May	19	13

**Figure 1/Table 1. Weekly prevalence of *Ceratomyxa shasta* infection in juvenile Chinook salmon captured in the Shasta to Scott (K4) reach on the Klamath River.**

### Scott to Salmon



Weekly Date	Total Number of Samples (N)	Number Cs Positive
7 Apr	22	0
14 Apr	20	0
21 Apr	20	0
28 Apr	20	0
5 May	20	9
12 May	21	18

**Figure 2/Table 2. Weekly prevalence of *Ceratomyxa shasta* infection in juvenile Fall Chinook salmon captured in the Scott to Salmon (K3) reach on the Klamath River.**