

**CA-NV Fish Health Center**

**Sample Summary: 2004 Winter Chinook Adults – SRW (WCS-SRW-2004-ADULT), Livingston Stone NFH  
Prepared: 01/04/2005 (KN)**

Prevalence of infection for Infectious Hematopoietic Necrosis Virus (IHNV) in 1 to 3-pooled ovarian fluid (OF) or kidney tissues (KD). *Renibacterium salmoninarum* by Enzyme Linked Immunosorbent Assay (ELISA) of individual kidney tissue and Direct Fluorescent Antibody Technique (DFAT) of 1 to 3-pooled ovarian fluid using polyclonal anti-Rs sera. Cultured systemic bacteria in individual kidneys (BACTE). Internal parasites (PARASITES) histological by examination of individual intestines (HISTO-IT) and PAS stain of individual kidney imprints (PAS-KD).

Recorded as number positive/sample total (percent positive).

	May 2004	June 2004	July 2004	August 2004	Total
<u>VIRAL – OF or Kd</u>					
IHNV	4/5 (20%)	10/25 (40%)	0/9		14/39 (36%)
<u><i>R. salmoninarum</i> – ELISA-KD<sup>2</sup></u>					
• Low Antigen Levels	8/8 (100%)	25/29 (86%)	28/37 (76%)	3/3 (100%)	64/77 (83%)
• Moderate Antigen Levels	0/8	0/29	1/37 (3%)	0/3	1/77 (1%)
• High Antigen Levels	0/8	0/29	0/37	0/3	0/77
• Negative (OD < cutoff)	0/8	4/29 (14%)	8/37 (22%)	0/3	12/77 (16%)
<u>DFAT – Females-OF</u>					
<i>R. salmoninarum</i>	0/5	0/18	0/22		0/45
<u>BACTE – KD (presumptive identification)</u>					
<i>Aeromonas/Pseudomonas</i>	1/1 (100%)	1/11 (9%)			2/15 (13%)
<i>Staphylococcus</i>		1/11 (9%)			1/15 (7%)
<i>Micrococcus</i>			3/3 (100%)		3/15 (20%)
<u>PARASITES</u>					
<i>C. shasta</i> – HISTO-IT					
• light infection		2/14 (14%)	3/9 (33%)	0/1	5/24 (21%)
• Severe infection		1/14 (7%)	1/9 (11%)	0/1	2/24 (8%)
<i>Sphaerothecum destruens</i> (Rosette Agent) – PAS-KD	0/6	0/36	0/4		0/46

Notes:

1. Confirmed by immunocytochemistry with monoclonal anti-IHNV sera
2. *Rs*-ELISA OD values: range = 0.060 – 0.212, Blank = 0.063 or 0.122, Negative cutoff = 0.077 or 0.102, Low/Moderate cutoff = 0.200, Moderate/High cutoff = 0.500.