

California-Nevada Fish Health Center

**SAMPLE SUMMARY: 2002 Late Fall Chinook Salmon Adults - Battle Creek Run
(LFS-BCW-adult), Coleman NFH.**

Incidence of infection for Infectious Hematopoietic Necrosis Virus (IHNV) in three fish pools of ovarian fluid (OF) and male Kidney/Spleen (K/S) tissue samples, *Renibacterium salmoninarum* (RSAL) by Enzyme Linked Immunosorbant Assay (ELISA) of individual kidney samples and Ovarian Fluid pellet 3(p) digested by trypsin. Internal parasites (Rosette Agent, *Ceratomyxa shasta*, helminths) from individual fish histological cross sections of lower intestines (GUT), Gram-stained kidney imprint (KIMP), cultured systemic bacteria from individual samples of kidney inoculum. Incidence recorded as number positive / sample total (percent positive). Sampling occurred on 09 Jan, 22 Jan, and 31 Jan 2002.

Sampling Dates	09 Jan 2002	22 Jan 2002	31 Jan 2002		INCIDENCE (% Positive)
CA-NV FHC Case #	02-003	02-008	02-013		
PATHOGEN / SAMPLE (number positive / number collected)					
VIROLOGY					
IHNV ♀ OF	8 / 10	0 / 10	10 / 10		18 / 30 (60.00%)*
IHNV ♂ K/S	8 / 10	5 / 10	0 / 10		13 / 30 (43.33%)*
BACTERIOLOGY					
RSAL ELISA Positive / kidney	0 / 20	0 / 20	0 / 20		0 / 60 (0%)
RSAL ELISA Suspect / kidney	1 / 20	0 / 20	0 / 20		1 / 60 (1.67%)**
RSAL ELISA Negative / kidney	19 / 20	20 / 20	20 / 20		59 / 60 (98.33%)
RSAL DFAT 5(p) OVFL-Pellet	0 / 10	0 / 10	0 / 10		0 / 30 (0%)
Cultured Bacteria <i>Pseudomonas / Aeromonas</i>	1 / 20	5 / 20	4 / 20		10/60 (16.67%)
No <i>A. salmonicida</i> or <i>Y. ruckeri</i> cultured.					
PARASITES					
Rosette Agent / KIMP	0 / 10	0 / 10	0 / 10		0 / 30 (0%)
Histology / GUTS					
SEVERE <i>C. shasta</i>	10 / 10	3 / 10	5 / 10		18 / 30 (60%)
EARLY <i>C. shasta</i>	0 / 10	5 / 10	1 / 10		06 / 30 (20%)
Cestodes	2 / 10	4 / 10	6 / 10		12 / 30 (40.00%)

*17 / 18 CPE+ ♀ OF viral samples confirmed by IMMUNOCYTO CHEM.

*12 / 13 CPE+ ♂ K/S viral samples confirmed by IMMUNOCYTO CHEM.

**Reference Tissue ± 2 STD = 0.078, Highest KD Sample OD = 0.108, PCR confirmation pending.