



FISH HEALTH MANAGEMENT

January 1 – December 31, 2001

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TABLE OF CONTENTS

	<u>Page</u>
ABSTRACT	1
FISH HEALTH MONITORING AND MANAGEMENT ACTIVITIES OF IDAHO DEPARTMENT OF FISH AND GAME	2
Resident Hatchery Activities	2
American Falls Hatchery	3
Ashton Hatchery	3
Cabinet Gorge Hatchery	3
Clearwater Hatchery Resident Program	4
Grace Hatchery	4
Hagerman State Hatchery	4
Hayspur Hatchery	4
Hayspur Rainbow	5
Hayspur Kamloops	6
Henrys Lake Hatchery	6
Mackay Hatchery	6
McCall Hatchery Resident Program	7
Mullan Hatchery	7
Nampa Hatchery	7
Anadromous Hatcheries	8
Clearwater Hatchery and Crooked River, Powell and Red River Satellite Facilities	8
Clearwater Hatchery	8
Crooked River Satellite Facility	8
Powell Satellite Facility	8
Red River Satellite Facility	9
Magic Valley Hatchery	9
McCall Hatchery	9
Niagara Springs Hatchery	10
Oxbow Hatchery	10
Pahsimeroi Hatchery	10
Rapid River Hatchery	11
Sawtooth Hatchery	11
Sockeye and Chinook Captive Broodstock	12
Redfish Lake Sockeye Salmon Captive Broodstock	12
Juvenile Fish Quality Assessment in 2001	13
Salmon River Chinook Captive Rearing	13

TABLE OF CONTENTS

	<u>Page</u>
IDAHO WILD FISH SURVEY.....	14
TRANSPORTATION AND IMPORTATION PERMITS	15
REPORTS & PRESENTATIONS	15
PRODUCTION STUDIES AND SURVEYS TO ENHANCE FISH HEALTH.....	16
RECOMMENTATIONS	17
ACKNOWLEDGEMENTS	18
APPENDICES.....	19
Appendix 1. Fish Health Database Summary, 2001.....	20
Appendix 2. Geographic Location of Idaho Department of Fish and Game Culture Facilities.....	46

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ABSTRACT

This report contains a description of the activities of the Eagle Fish Health Laboratory, operated by the Idaho Department of Fish and Game, for the calendar year 2001. The primary charge of this program is to monitor, inspect, and improve the health of fish raised at 11 resident hatcheries, 11 anadromous hatcheries and satellites, and Eagle Hatchery, which rears Endangered Species Act-listed salmon captive broodstocks. Results of these diagnostic cases are presented in the text by program and facility. The most significant pathogens encountered in the resident and anadromous programs were cold water disease, bacterial kidney disease, infectious hematopoietic necrosis virus, bacterial gill disease, and furunculosis. The Idaho Department of Fish and Game fisheries managers, researchers, hatcheries, and Eagle Fish Health Laboratory pathologists utilized the wet laboratory during the year.

Wild salmonids from all seven regions of the state were examined for the parasite *Myxobolus cerebralis* that causes whirling disease. New occurrences of the whirling disease parasite this year were from Birch Cr. And Medicine Lodge Cr. ,tributaries of the Sinks drainages and from a site upstream of Mesa Falls on the Henrys Fork Snake River. We concluded research demonstrating the seasonal infectivity of *M. cerebralis* in the river water supplies of both Sawtooth and Pahsimeroi hatcheries. The staffs of both the Eagle Fish Health Laboratory and Eagle Hatchery cooperated in whirling disease research projects with the University of Idaho.

The Eagle Fish Health Laboratory staff remained active participants in regional and national fish health issues. This included administering the Investigational New Animal Drug program through the United States Fish and Wildlife Service and the University of Idaho. Examples of additional liaison activities are included in the text.

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This report covers activities for grant F-75-R-18 Federal Aid in Fish Restoration January 1 to December 31, 2001 by the Idaho Department of Fish and Game (IDFG).

FISH HEALTH MONITORING AND MANAGEMENT ACTIVITIES OF THE IDAHO DEPARTMENT OF FISH AND GAME

Resident Hatchery Activities

The Resident Hatchery Pathologist's (RHP) primary duties are to provide fish health inspection and diagnostic services to the Idaho Department of Fish and Game's (IDFG) resident fish hatcheries and to assist hatchery personnel in maintaining good health in cultured resident fish.

These same services are provided to IDFG fishery managers and biologists and occasionally to private individuals or companies when the information or relationship is of benefit to the Department. The RHP and his Anadromous Hatchery counterpart often assist each other in their respective programs and coordinating efforts when those programs overlap. Both pathologists are certified as Fish Health Inspectors by the Fish Health Section-American Fisheries Society.

The RHP is the Investigational New Animal Drug (INAD) monitor for the IDFG resident hatcheries. This is the process by which the U.S. Food and Drug Administration will allow the limited use of certain drugs and chemicals not currently labeled for a specific use in food fish, while accumulating data to support adding such use to the label. Idaho Department of Fish and Game joined the U.S. Fish and Wildlife Service's (USFWS) INAD program in 1998. Two chemicals used by resident hatcheries under this program during 2001 were Chloramine-T (Chlor-T) and oxytetracycline (OTC). Chloramine-T is used as a bath to treat bacterial infections on the gills (external), and OTC is used to treat systemic bacterial infections. Statewide, the most significant diseases in IDFG resident hatchery fish are bacterial coldwater disease (CWD), caused by *Flavobacterium psychrophilum*, and motile aeromonad septicemia (MAS), caused by several species of both *Aeromonas sp* and *Pseudomonas sp* bacteria. These are all motile, gram-negative bacteria that are usually susceptible to OTC. A significant difference is that MAS can be treated under the existing drug label, while treatment of CWD always requires an INAD protocol. The total number of INAD protocols to use OTC at resident hatcheries in 2001 was less than in 2000 (12 vs. 22).

A new assignment for the RHP in 2001 was to issue import permits for all the resident programs that brought eggs or fish into the state. This also involved collecting fish health inspection information from various sources, prior to issuing the permits, to be sure that imported fish or eggs were not exposed to pathogens of concern.

The RHP and EFHL personnel examined 67 cases for IDFG resident hatchery programs during 2001 (13 routine hatchery inspections, 19 inspections of feral brood stock, and 35 diagnostic cases). In addition, 1 diagnostic and 1 certification were done for private individuals, 1 inspection was done for Rangen's Aquaculture on fish purchased by Idaho Power Co (IPC) for release in American Falls Reservoir, 4 Research cases were examined (3 for IDFG and 1 for the Shoshone-Bannock Tribe, 1 diagnostic was done on wild yellow perch from the Panhandle Region, and 24 wild salmonid inspections were done for various IDFG programs around the state. A summary of

the sampling results for each IDFG hatchery is presented in Appendix 1 and the locations in Appendix 2.

American Falls Hatchery

Three of four diagnostic examinations documented CWD as the single significant clinical disease at American Falls Hatchery in 2001. These episodes were unusual in that the fish showing clinical signs were older and larger than is typical, and the signs included numerous large, sub-dermal furuncles, randomly distributed over the body. Mortality rates in all cases were elevated but not devastating. The fish were treated with OTC under INAD protocols at the standard dosage and duration. Response to the treatments was good.

Ashton Hatchery

The RFP visited the hatchery once in 2001 without sampling any fish for laboratory tests. The hatchery manager reports that infestations of the external parasite *Gyrodactylus sp* continue to be the only significant disease problem on the station. Ashton continues to be a hatchery at risk for *Myxobolus cerebralis* (MC) contamination, the causative parasite of Whirling Disease (WHD). As more bodies of water in the vicinity are shown positive for the parasite, the greater the probability that the spring and stream above the hatchery intake may become contaminated.

Cabinet Gorge Hatchery

Two diagnostic examinations were made on kokanee fry from Cabinet Gorge Hatchery in early 2001. The samples were taken by hatchery personnel and shipped overnight to the EFHL. This has proven to be an effective way to examine fish from this hatchery without two long days of travel by the RFP. No definitive diagnosis could be made from the first fish sample, as the fish were too small to do any tests other than virology (which was negative). Gross examination was also inconclusive. The second set of samples was diagnosed with Bacterial Gill Disease (BGD), both from obvious gross signs and the isolation of *Pseudomonas* and fungus from the gills. Several individual raceways of fish were treated with Chloramine-T under INAD protocol. Success was generally good, but two raceways required a second course of treatment.

The RFP sampled spawning kokanee adults at the Sullivan Springs trap on December 3. The condition of those fish appeared very good, with an observed occurrence of encysted cestodes in the pyloric caecae similar to past years, but no nematodes were noted in the swim bladders. There have never been any gross signs indicating that these parasites cause significant adverse effects on the fish. Historically, *Renibacterium salmoninarum* (RS) bacterial antigen has been detected in this population using the enzyme-linked immunosorbent assay (ELISA), but the presence of viable organisms has never been demonstrated by the fluorescent antibody test (FAT). Only FAT was used this year due to a shortage of good reagents for ELISA at EFHL. No RS organisms or replicating viruses were detected. The fish were also tested for the presence of MC. This parasite has never been demonstrated in the vicinity of Lake Pend Oreille, but is known to be present in the upper portions of the Clark Fork River in Montana. For the first time since testing began in 1988, a spore was detected in a Sullivan Springs adult kokanee. Specifically, a single spore was seen in the pepsin/trypsin digest test (PTD) from 1 of 12 five-fish pools. Pepsin/trypsin digest is a relatively quick and easy test, but it detects spores only without identifying their species.

Since species of *Myxobolus* other than *M. cerebralis* have been confirmed in a number of locations in Idaho, only half-heads are used for PTD while the other halves were examined by histology, but no spores of any type were detected. The nested polymerase chain-reaction testing (PCR) was negative for MC genetic material.

Clearwater Hatchery Resident Program

One diagnostic case was examined on resident Hayspur-strain rainbow trout at Clearwater Hatchery. The diagnosis was chronic CWD. This lot of fish had been treated with OTC in 2000 with poor results. Since they were the planned stocking date, it was recommended that no additional treatment be applied. The production facilities at Clearwater will be full of anadromous fish for the next few years, so there will likely be no resident fish on station.

Grace Hatchery

Grace Hatchery was visited in August, to diagnose the cause of losses in fry-size Westslope cutthroat trout. Fish from eggs from the same private source were also experiencing losses at McCall Hatchery, but not at American Falls Hatchery. Both *F. psychrophilum* and *A. hydrophila* were isolated from the fish. A treatment of OTC medicated feed was applied under the existing label with good success.

Production was reduced at Grace for part of the year due to reconstruction of the large raceway system. Improved rearing conditions and flow patterns should help maintain good fish health in the new raceways.

Hagerman State Hatchery

A total of 18 diagnostic cases were examined from Hagerman State Fish Hatchery in 2001 (compared to 26 in 2000). The reduction in cases was primarily due to a reduced number of CWD epizootics.

Losses from rainbow/Kamloops lots in the outside raceways frequently involved a combination of pathogens. Infectious hematopoietic necrosis virus (IHNV) was detected five times, each time in combination with one or more bacterial pathogens (*F. psychrophilum*, *F. columnare*, or an *Aeromonas* sp). The hatchery manager reported observing several additional IHNV episodes without calling on the EFHL for diagnostic confirmation. Several bacterial infections, primarily columnaris (COL), CWD, and/or MAS, were diagnosed without the complication of virus. These episodes were treated with OTC-medicated feed, using the existing label or an INAD protocol; whichever was appropriate for the situation. Most of the treatments were successful. Eight INAD protocols were used to treat CWD or COL, a reduction from 14 in 2000.

Aeromonas salmonicida, the causative bacteria of furunculosis, was again detected at Hagerman State Hatchery. This pathogen has been detected at Hagerman for three of the last 4 years, (1998, 2000, and 2001). The epizootic was treated successfully with Romet-30 incorporated in feed.

Hayspur Hatchery

The RHPs work at Hayspur Hatchery involved considerable effort to inspect brood stock and brood stock replacement lots. The BY99 replacement rainbow (R9) and Kamloops (K1) populations were inspected in August (Appendix F). No viruses, *Myxobolus* spores, or significant bacteria were detected. In past years, similar populations of fish have tested positive for RS antigen at low levels by ELISA. However, due to a critical shortage of good ELISA reagents at EFHL, this year's fish were tested by fluorescent antibody technique (FAT) only. No RS was detected.

All BY99 replacement R9s and K1s were given a bath vaccination, using an autogenous *F. psychrophilum* bacterin, when fish ranged from 1.0 to 7.2 grams in size. Half of the R9s received a booster bath about five months later. Aqua Health Ltd., (Charlottetown, P.E.I., Canada), produced the bacterin from a bacteria isolate taken at Hayspur in 1998. None of the fish showed any signs of bacterial disease before being incorporated into the broodstock population. The small amount of remaining bacterin was used to vaccinate half of the Westslope cutthroat that are still inside the hatchery building. No signs of CWD have been observed in either the vaccinated or unvaccinated cutthroat. Since neither of these trials was conclusive, the benefit of the treatment is not yet absolutely proven. However, this is a direction for CWD-control that will receive much more attention in 2002. An isolate of the bacterium has already been prepared for the production of more bacterin.

Both populations of broodyear (BY) 2000 replacement fish were diagnosed with clinical CWD in November or December, and were treated with OTC-medicated feed. Neither population had been vaccinated as described above.

Intensive sampling of the replacement brood stock pairings continued to be the health priority at Hayspur Hatchery. Ovarian fluids were collected from every female used in the pairings for virology and for RS analysis using the ovarian cell pellet fluorescent antibody test (OCP-FAT). A portion of the females from each set of pairings was sacrificed tissue virology, direct FAT on kidney smears, and for ELISA. Eggs from individual females were held in isolation until the test results were available. Established protocol dictated that if a parent female should test positive for any virus or for RS by either FAT procedure, the resulting group of eggs was to be culled. Historically, eggs were also culled from any fish whose ELISA optical density (OD) was ≥ 0.110 . However, this year, all ELISA samples were archived due to the shortage of good antibody reagents for the test. As a result, no RS was detected in either population, and no eggs were culled. There has been a trend of lower and lower ELISA prevalence and OD levels, so it was felt that failing to cull by this test for one year did not present an exceptional risk of amplifying the pathogen in the populations. It is hoped that the reagent supply dilemma will be solved before the next spawning season.

Details of the spawn sample results for each population are as follows:

Hayspur Rainbow

The R9 brood stock replacement spawning began on October 17 and ended December 27. Ovarian fluids from 200 females were tested for viruses and RS, and 60 of those same females were sacrificed for FAT, ELISA, and tissue virology. No viruses were detected from either ovarian fluids or tissues, nor was any fish found positive for RS by either FAT or OCP-FAT. Kidney samples for ELISA were archived. No eggs were culled.

Hayspur Kamloops

Kamloops brood stock replacement spawning ran from October 10 to November 7. Ovarian fluids from 130 females were tested for viruses and RS, with 30 sacrificed for FAT, ELISA, and tissue virology. No viruses were detected from either ovarian fluids or tissues, and no RS was detected by FAT or OCP-FAT. Kidney samples for ELISA were archived. No eggs were culled.

Henry's Lake Hatchery

Fish health inspection samples were taken from spawning cutthroat trout at Henry's Lake Hatchery from March 5 through April 25, 2001. Ovarian fluids were collected by hatchery personnel and shipped to EFHL where they were tested for viruses (175 females in 25 seven-fish pools) and RS by OCP-FAT (1344 females in 192 seven-fish pools). A group of 60 fish (both males and females) was sacrificed for kidney FAT, tissue virology, bacteriology, (16 fish) and *Myxobolus* tests. No viruses were detected in any of the tissue or ovarian fluid samples. None of ovarian fluids tested positive for RS by OCP-FAT. As a result, no eggs were discarded in 2001. One of 60 kidney FAT samples contained a single fluorescing bacterium of the right morphology for RS, but there was no record of whether that individual fish was a male or female. No tissues were tested for RS by ELISA due to a shortage of good reagents at the laboratory. Bacteriology samples showed a carrier-level infection of a *Pseudomonas* species in one fish, but no other bacterial pathogens were detected. *Myxobolus cerebralis* spores were not detected by the PTD method this year, although the population has been confirmed positive in the past.

In past years, the ovarian fluid samples taken by hatchery personnel have contained significant amounts of fluorescing debris, as well as fluorescing bacteria that did not usually have the right morphology for RS, (probably *Pseudomonas fluorescens*). However, there has always been some question when a few of the bacteria in such samples were close to the right size and shape for RS. In such cases, the sample was called RS-positive and culled in order to error on the side of safety. Damon Keene, the new hatchery manager, asked the RHP to critique his spawning protocol prior to the season, and some practices that probably contributed to sample contamination were identified. Corrections were made and no fluorescing contamination was observed in this year's samples.

Mackay Hatchery

No significant clinical disease or fish losses occurred at Mackay Hatchery in 2001. The RFP visited the hatchery in October to sample fingerling Henry's Lake rainbow-cutthroat hybrids and the older lot (BY-2000) Snake River cutthroat from Jackson National Fish Hatchery. No replicating viruses, bacteria, RS, or *Myxobolus* spores were detected. The hatchery remains at risk for MC contamination due to the very close proximity of positive fish in the outflow stream and settling pond. However, the probability of detecting such contamination is extremely low due to the design of the hatchery and the extremely low levels of prevalence and intensity that are likely. An extensive challenge trial using small fish placed in live-boxes around the facility will be done in 2002.

Mackay Hatchery received green eggs from the early-spawning kokanee in Deadwood

Reservoir and Payette Lake. The Deadwood spawning population was inspected twice. No viruses, RS, or *Myxobolus* spores were detected in samples from either population.

McCall Hatchery Resident Program

Westslope cutthroat fry obtained from Montana were diagnosed with CWD shortly after first feeding. This is the second consecutive year that this has occurred in the majority of fish groups. Treatment with OTC under INAD protocol was again successful. Investigations will be made in 2002 into the possibility of bath treatments with OTC or Penicillin G while the fry are still in the incubators.

Mullan Hatchery

For the first time in many years, fish from the Mullan (Hale) Hatchery were tested at the EFHL. Catchable-size Kamloops that had been transferred from American Falls Hatchery were tested and diagnosed with CWD. This was no surprise, in that fish still at American Falls were undergoing an episode at the same time. Mullan was not covered under an INAD permit, and it was decided that the cost and delay of obtaining such a permit were not justified. So the fish were not treated before stocking.

Nampa Hatchery

Bacterial CWD and MAS continue to be the most common diseases diagnosed in Kamloops or rainbow trout at Nampa Hatchery. As usual, the outbreaks of both diseases were most common in winter and spring, when the hatchery was at full production and fish were at the most susceptible life stage. One group of fish was treated with OTC-medicated feed under an INAD protocol, and one other group was treated under the existing label. In all, this was a good year for fish health at Nampa.

A routine inspection of triploid Kamloops trout, done in May, detected no viruses, RS, significant bacteria, *Ceratomyxa shasta*, or MC.

Anadromous Hatcheries

The Department hatchery facilities and associated satellites release and adult capture stations for steelhead *Oncorhynchus mykiss* and chinook *O. tshawytscha* are funded through Lower Snake River Compensation Plan (LSRCP) and IPC contributions. The anadromous pathologist provides diagnostic and inspection services to chinook, sockeye, and steelhead that are spawned, reared, and released from IDFG facilities. The anadromous pathologist also cooperates with other state, private, federal, and tribal programs that could impact Idaho's fishery resource. The annual summary of results for the hatcheries and satellite stations is presented in Appendix 1. In 2001, the anadromous hatchery program submitted 175 inspection and diagnostic cases that were processed by the EFHL personnel.

Clearwater Hatchery and Crooked River, Powell, and Red River Satellite Facilities

Clearwater Hatchery

The Clearwater Hatchery produces steelhead and chinook in conjunction with Crooked River, Powell, and Red River satellite facilities. Dworshak National Fish Hatchery provides steelhead for Clearwater's steelhead program. A total of 32 inspection and diagnostic cases were attributed to this facility. Three more inspection cases were performed on samples collected at Dworshak National Fish Hatchery. In 2001, only the B strain steelhead suffered losses to broom trauma (*F. psychrophilum* was isolated). OTC medicated feed was not applied. Mortalities subsided after permanent staff reviewed raceway sweeping with the temporaries. INHV was isolated in B strain steelhead brood fish at Dworshak National Fish Hatchery. The eggs from these positive fish were not transferred to Clearwater Hatchery. Brood chinook that were transported from Red River and Crooked River (South Fork of the Clearwater spring chinook) were spawned at Clearwater Hatchery. All 491 females were examined by ELISA for RS. All but two females were found to be positive (ODs > 0.10). The INHV was found in four fish of 71 fish examined.

Crooked River Satellite Facility

At this satellite of the Clearwater Hatchery, fall and spring inspections were applied to acclimating chinook. These two preliberation samples only found RS by ELISA examination. Viral replicating agents and MC were not detected. A total of 40 juvenile chinook were examined. One diagnostic case found CWD and MAS killing newly ponded fish at this facility. A prophylactic treatment of erythromycin was applied on schedule, which stopped mortalities.

Powell Satellite Facility

Juvenile fish were reared at this facility during 2001. Spring releases of Powell juvenile chinook were examined for preliberation survey. These fish were pathogen free except for ELISA testing for bacterial kidney disease (BKD). Four of four pools were ELISA positive at low optical densities. Fall preliberation samples demonstrated one of four pools positive. The one positive pool was of low optical density.

Ten of the thirteen inspection cases were of brood chinook spawned at this satellite. Viral replicating agents were not detected during routine examinations during spawning. *M. cerebralis* was not found at this facility in any of the fish health examinations. Only *Renibacterium* by ELISA was found in spawning chinook. Five hundred and eighty-two chinook females were examined for *Renibacterium* with ELISA. Of 700 females examined, only 13 females had optical densities less than 0.1.

Red River Satellite Facility

During 2000, juveniles were not reared at this facility because *Ichthyophthirius multifiliis* infestations kill too many of the juveniles at this facility in prior years. A short acclimation when temperatures are not at the parasite's optimum, are applied to juveniles prior to the fall release at this satellite. No pathogens were detected during fall preliberation sampling. All four pools of kidneys tested via ELISA technology were negative.

Magic Valley Hatchery

Dworshak, East Fork, Pahsimeroi, and Sawtooth steelhead stocks required seven inspection cases and four diagnostic cases during 2001 at the Magic Valley Hatchery. In e the 13 diagnostic trips *F. psychrophilum* and IHNV were found to be the etiologic agents. Mortalities caused by *F. psychrophilum* were high enough to warrant medicated feed treatment, and were controlled with OTC medicated feed applications.

The organosomatic index demonstrated a very robust fish, with plenty of stored energy. In 2001, IPNV, Furunculosis, and MC, were not found at Magic Valley Hatchery. To curtail any chance of horizontal transmission of etiologic agents a stringent disinfection program has been applied to this hatchery on an annual basis.

McCall Hatchery and South Fork Satellite

In the anadromous program at this facility, 18 inspection cases were performed for McCall Hatchery and South Fork Trap. This includes seven inspection cases performed on Johnson Creek brood fish for the Nez Perce Tribe (NPT) Fisheries Program. Serious pathogens were not detected in McCall Hatchery juvenile chinook during this calendar year. Only ELISA testing, during preliberation of BY'99 SFSU, found low optical densities for RS in 3/4 pools sampled.

Two prophylactic treatments of twenty-eight days apiece, were applied to all juvenile chinook at this facility via INAD 6013. These usually take place in June and September.

The South Fork Trap had 14 accessions logged into the EFHL during 2001. Brood summer chinook, from the South Fork and the Salmon River and Johnson Creek were examined for RS, MC, and viral replicating agents. MC and viral replicating agents were not detected. Using ELISA, RS was detected. The ELISA optical density data was utilized to choose which egg lots were to be culled. Egg lots from high optical density females represent the greatest risk for horizontal transmission of RS. The egg lots originating from females whose kidney tissues measured OD>

0.25 were culled from the hatchery program.

Niagara Springs Hatchery

Eight inspection cases and two diagnostic cases were attributed to Niagara Springs Hatchery during 2001. Hells Canyon and Pahsimeroi steelhead stocks were examined. Motile aeromonad septicemia (MAS) was responsible for most mortality.

Since hatchery impediments to culture have been improved at this facility, future endeavors should focus on inventory manipulations to maintain densities below stressful levels and to manage around opportunistic pathogens such as CWD and MAS.

Oxbow Hatchery

Twelve inspections were made to Oxbow Hatchery. Seven inspection trips for Steelhead A group (STA) adults were examined during spawning for IHNV, IPNV, RS, and WD. Pathogens were not detected at this facility during 2001.

During 2001, a fall chinook program began at this facility. Initially total gas pressure (TGP) was measured at 112 %. This high TGP was causing chronic mortality. As soon as a degassing tower was applied to the well water source, TGP dropped to 102% at the head-box of these raceways. Mortalities immediately dropped.

Since these fall chinook were finished on surface water from the Snake River, *C. shasta* is an important potential pathogen. At preliberation, 70 fish were sampled for this parasite without detection. No other pathogens were detected during routine sampling except for RS using ELISA technology. Five of twenty-three pools were positive for RS but all had low optical densities.

Pahsimeroi Hatchery

Sampling of steelhead and chinook, juveniles and adults, from Pahsimeroi Hatchery resulted in 17 laboratory accessions to the EFHL in 2001. There was one diagnostic case from this facility.

Adult steelhead, STA strain along with adult and juvenile summer chinook were sampled for pathogens. No evidence of virus was detected in any group. *Renibacterium* could be detected by ELISA, but typically at low levels. Some high optical densities are found in brood chinook. Juvenile chinook will typically become positive for WHD when reared on river water, as it is endemic to this drainage. Signs of clinical WHD became apparent during the fall and winter months. The parasite was also detected in adult steelhead.

Salmonids reared at Pahsimeroi Hatchery have been positive for WHD for almost a decade and 2001 was no different, although routine sampling in juveniles did not find positives. All of the fish were early-reared on well water at Sawtooth Hatchery to avoid early exposure to the parasite MC. Once these fish reached a minimum of seven cm, they were ponded at the upper facility at Pahsimeroi Hatchery. By preliberation sample, these fish had low levels of MC infection by digest.

Experimental exposures to *M. cerebralis* were conducted on a monthly basis at the water intake canal and in the settling ponds of the upper facility. The data suggests that infection with this parasite can be produced at anytime of the year in this river. Peak infectivity appears to be in April, May, and August.

Prophylactic treatments of erythromycin-medicated feed were administered twice, in accordance with Pahsimeroi Hatchery's INAD protocols. *Renibacterium* was found in 3/4 pools by ELISA methods in BY'99 chinook. All positive pools were low optical densities.

Completion of egg incubation and early rearing of chinook is done at Sawtooth Hatchery, utilizing specific pathogen free (SPF) water source to reduce exposure to the infective stage of MC. In conjunction with IPC, the hatchery staff and EFHL staff, continue to explore many options to manage around MC infection. A better water source remains the primary focus of this investigation, especially for early rearing. Local springs have been analyzed for volume, water chemistry, temperature, gas saturation, and other parameters. WHD exposure experiments have been implemented to determine seasonality of the parasite. This has been an opportunity for IDFG and IPC to work together to overcome this problem. With SPF water in high demand at Sawtooth Hatchery, a suitable SPF water source at Pahsimeroi is necessary.

Rapid River Hatchery

Fourteen inspection cases were entered from Rapid River Hatchery during 2001. No diagnostic sampling was done this year at this facility. The majority of these cases were brood samples, primarily establishing ELISA titers for ELISA-based segregation and culling. BKD and IHNV were detected in routine adult sampling. RS was detected via ELISA sampling in juveniles at preliberation sampling in 2/4 pools (both low optical densities).

External mycosis, "Fuzzy-tail," which had been a perennial problem at this hatchery in the late 80's and early 90's was almost non-existent.

The BKD culling and/or a segregation program has eliminated clinical disease. Fish should also be fin clipped when water conditions are optimal.

Sawtooth Hatchery

Forty-five inspection cases examined juvenile and brood fish at Sawtooth Hatchery in 2001. There was one diagnostic case at this facility in 2001. Juvenile stocks examined at this facility were Sawtooth, Pahsimeroi chinook stocks, and Redfish Lake sockeye. In addition, samples were taken or obtained from adult East Fork Salmon River steelhead B (STB) and Sawtooth STA. No evidence of virus resulted. While BKD antigen was detectable in chinook adults.

Preliberation samples of juvenile chinook found two of four pools positive for *Renibacterium*. All pools were low titer. All 20 fish were positive for *M. cerebralis*. RS and WHD were detected in sockeye salmon during preliberation sampling. ELISA testing detected low optical densities of RS in juvenile sockeye and 1/21 fish sampled for WD was positive. The sockeye were placed on river water in October of 2000.

Prolonged rearing on well water has resulted in decreased detection of WHD in chinook. WHD exposure experiments have been completed and have determined the seasonality of infection by this parasite at this facility. This has provided insight into managing around infection. It continues to be very important to rear the chinook at Sawtooth Hatchery until at least 75mm on SPF well water. Expanding the well-water supply should also reduce incidence, intensity, and prevalence of RS and IHN.

Sockeye and Chinook Captive Broodstock

The IDFG facilities at Eagle include both the EFHL and the Eagle Hatchery, which is dedicated to rearing ESA-listed Redfish Lake sockeye salmon *O. nerka* captive broodstock to maturity and the resulting progeny for release. This program began in 1991 and continues to the present.

A similar experimental project was initiated in 1995 for culture of ESA-listed chinook from collections of wild parr from three Idaho rivers. In recent years this program has transitioned to hydraulic removal of eggs from naturally-produced redds. There has been an improvement in the health of the progeny resulting from this programmatic shift. The site selected for the freshwater rearing portion of this project was Eagle Hatchery. The marine site was the National Marine Fisheries Service's (NMFS) Manchester Marine Laboratory (MML). Both the sockeye and chinook programs generate considerable case workload for the EFHL. Program activities for 2001 are reported by species.

Redfish Lake Sockeye Salmon Captive Broodstock

The IDFG Eagle Fish Health Laboratory processed samples for diagnostic and inspection purposes from broodstock and production groups of sockeye salmon; anadromous adult sockeye salmon that were retained for hatchery spawning; sockeye salmon smolts obtained from outmigrant traps; and kokanee obtained from trawl efforts. Eighty-one laboratory cases involving 386 individual fish were processed in 2001. The laboratory also summarized pathology findings to satisfy the needs of adjacent state agencies for issuance of sockeye salmon import and transport permits.

There was no evidence of viral pathogens in any of the production and broodstock groups in 2001. This result is consistent with results from previous years. In addition, no viral pathogens were detected in the nine anadromous adults examined in 2001. The Redfish Lake population remains the only sockeye salmon population in the Pacific Northwest that does not have infectious hematopoietic necrosis virus.

Clinical BKD, caused by *R. salmoninarum*, did not occur in any production groups of sockeye salmon juveniles reared at Eagle Fish Hatchery or at Sawtooth Fish Hatchery. There were two cases from Sawtooth Fish Hatchery in which elevated ELISA OD values were demonstrated, however, the levels did not indicate a clinical disease. Captive adult sockeye salmon spawned in 2001 were also free of clinical levels of BKD. Bacterial kidney disease antigen was detected in two (both males) of the nine anadromous adults examined in 2001. Bacterial kidney disease antigen was also detected in one of the ten smolt samples collected during emigration from Alturas Lake but was not detected at Pettit or Redfish Lake trapping locations.

No furunculosis, caused by *Aeromonas salmonicida*, was detected in any of the anadromous adults retained for spawning as had occurred in 2000. However, as a precaution, we administered intraperitoneal injections of both Oxytetracycline and Erythromycin shortly after the adults were trapped.

Clinical disease caused by motile *Aeromonas spp.* was present in both anadromous adults, captive reared adults, and in BY99 and BY00 production sockeye salmon. Antibiotic therapy was administered three times in 2001 to control losses in captive reared adults and production groups. Myxobacterial infections (cold water disease and columnaris) were detected in the net pen reared fish and were also treated with antibiotics.

The myxosporean parasite, *M. cerebralis*, which can cause salmonid whirling disease, is present in the upper Salmon River. The Eagle Fish Health Laboratory demonstrated the seasonal infectivity in the river water supply of the Sawtooth Fish Hatchery using sentinel rainbow trout fry. Infection of this parasite was detected all months except January and February. In addition, two groups of sockeye salmon fingerlings were exposed as part of this study to examine relative susceptibility to the disease. These exposures resulted in a low prevalence of infection and were used to evaluate the risk of rearing sockeye salmon on river water during the winter months. In 2001, eight anadromous adults were examined for presence of the parasite. Sixty-two percent (five fish) of these adults were positive for *M. cerebralis*. Sockeye salmon have been reared almost exclusively on pathogen free well water at the Sawtooth Fish Hatchery; this suggests that smolts are being infected during seaward migration. In addition, since the inception of this project in 1991, *M. cerebralis* has not been identified in juveniles emigrating from Redfish, Pettit, or Alturas lakes. Kokanee present in these lakes have also tested negative.

In 2001, the nine anadromous adults were examined for the presence of *Piscirickettsia salmonis*. The results were all negative indicating that this emerging pathogen has not become established in Idaho.

One neoplasm, thymic lymphosarcoma, was observed in one BY98 sockeye salmon. Thymic lymphosarcomas have been observed in past years at the Eagle Fish Hatchery. Slides and tissues of this tumor were deposited and cataloged in the National Registry of Tumors of Lower Vertebrates at George Washington University Medical Center, an arm of the Smithsonian Institute.

Kokanee obtained by trawling in Redfish, Pettit, and Alturas lakes were shown to be negative for viral pathogens, BKD, and *M. cerebralis*.

Juvenile Fish Quality Assessment In 2001

In 1999, we initiated assessments of fish quality to juvenile sockeye salmon produced in this program to provide additional perspective on factors that may affect fish survival from outplanting through outmigration. General parameters considered for investigation included: 1) proximate body composition analysis, 2) organosomatic index, 3) fish health, and 4) smoltification assay.

Year 2001 sockeye smolts from traps on Alturas Lake Creek, Pettit Lake Creek, and Redfish Lake Creek were sampled in limited numbers for proximate analysis indicated very low fat reserves in hatchery smolts compared to those of natural origin. This was also apparent from scores of body fat content in the organosomatic assessment. No pathogens were detected in any of the groups and smolt assessment indicated these were prepared for salt-water entry.

Salmon River Chinook Captive Rearing

In 2001, 149 laboratory accessions (representing 191 fish) were generated at the Eagle Fish Health Laboratory for captive Chinook salmon. Cause of mortality and magnitude of loss for Chinook salmon maintained at the Eagle Fish Hatchery during this reporting period are presented in Appendix 1.

Principle fish health concerns included the presence of BKD and MC. In addition, maturing Chinook salmon transferred to the State of Idaho from the NMFS MML in Washington State were screened for the North American strain of viral hemorrhagic septicemia (NA VHS) and *Piscirickettsia salmonis*. These pathogens do not occur in Idaho but have recently been identified in fish reared at a seawater net pen location in close proximity to the NMFS site. Because of the risk associated with the potential introduction of NA VHS, ovarian fluid and tissues sampled from NMFS-origin fish were “blind-passed” to improve our ability of detecting the virus. There was no evidence of virus demonstrated from routine procedures in addition to these extra procedures.

Monitoring for BKD in captive Chinook salmon has been routinely conducted since the inception of the program in 1995. Of the 191 fish examined in 2001, 6 demonstrated clinical levels of this disease by ELISA. All BKD-related mortality (6 cases) occurred in brood year 1996 Chinook salmon from the Lemhi River group collected as natural parr. No BKD was identified in the safety-net rearing groups or those originating as naturally deposited eggs on station during this reporting period. Erythromycin-medicated feed for a 28-day duration was given twice as a prophylactic treatment.

In 2001, Lemhi River Chinook salmon juveniles were not found to be infested with the gill parasite *Salmincola* indicating that the gastric intubation treatment with the parasiticide Ivermectin eliminated the parasite from the facility. In previous years, this infestation debilitated rearing groups of Lemhi chinook.

Natural chinook juveniles collected from the Lemhi River (and to a lesser extent, the West Fork Yankee Fork Salmon River) are infected with *Myxobolus cerebralis*, the causative agent of salmonid whirling disease. For captive broodstocks of Lemhi River Chinook salmon, the prevalence of infection for 2001 was 26%. Mortality has not been attributed to the parasite, but occasional carnial deformities have been observed.

Motile aeromonad septicemia, caused by *Aeromonas* and *Pseudomonas* spp. was detected in five broodstock groups and required antibiotic therapy that was effective in reducing loss.

Diagnostic assay for the salmonid rickettsial disease agent, *Piscirickettsia salmonis* failed to demonstrate the presence of this disease in broodfish that were returned from the NMFS rearing location at Manchester, WA.

IDAHO WILD FISH HEALTH SURVEY

An examination of samples obtained from wild fish in the State of Idaho has been ongoing at the EFHL since the late-1980s. The distribution of MC and the impact of the parasite on wild and hatchery salmonid populations has been a concern of the IDFG since 1987, when it was detected in trout which contracted the infection from Idaho waters. Efforts made in 2001 focused on MC

samples from Westslope cutthroat and redband trout in remote areas since these species were being sampled for genetic analysis. Samples were processed and reported from all seven IDFG fishery management regions.

The new positive locations for MC in Idaho waters were from two Sinks drainage tributaries (Birch Creek and Medicine Lodge Creek) and a site upstream of Mesa Falls on the Henrys Fork Snake River from the IDFG Upper Snake Region. These infections were confirmed with the nested PCR technique. Spores of the neurotropic *Myxobolus spp.* were detected from redband trout at numerous sites in the Bruneau River drainage and in isolated creeks north of Twin Falls (IDFG Southwest Region) demonstrating the need for accurate identification of this *Myxobolus* species.

Westslope cutthroat trout were sampled from three sites on the Selway River. No MC spores were detected but those of *Henneguya salmonis* were present from all three sites.

The lab shared its fish health database with the USFWS Wild Fish Disease Survey and with the University of Idaho. The database of the lab has extensive fish health observations made over many years, which is useful at the regional and national level to understand how pathogens operate in wild fish populations. Some of these historic observations are from species that are currently ESA-listed, such as bull trout, chinook and sockeye salmon and steelhead in Idaho.

TRANSPORT AND IMPORT PERMITS

The EFHL issued 97 transport or import permits for the IDFG Fisheries Bureau and regional offices during 2001. These permits are required when non-aquaculture species are released to public waters of the State of Idaho. Twenty-eight of these dealt with grass carp (white amur) *Ctenopharyngodon idella* to be used for biological control of aquatic vegetation. The IDFG policy requires that grass carp be certified free of Asian tapeworm and to be sterile triploids. The United States Department of Agriculture Laboratory at Stuttgart, Arkansas generated the certification for both conditions. Other permits were issued to the NMFS for importation of Redfish Lake sockeye smolts for release and adults for volitional spawning; to the USFWS for research activities in the Clearwater River system; to the Kootenai Tribe of Idaho for culture and release actions with endangered Kootenai River white sturgeon *Acipenser transmontanus*; to the Nez Perce Tribe for salmon culture activities; and to the University of Idaho Aquaculture Research Institute and Hagerman Fish Culture Experiment Station for research.

REPORTS AND PRESENTATIONS

Reports generated by the EFHL include the Annual Resident Hatchery report for 2001 and the monthly LSRCP and IPC facilities disease summary reports. Presentations were given on the fish disease status in Idaho at the anadromous fish management meeting; at the IDFG hatchery managers' meeting; at the Pacific Northwest Fish Health Protection Committee (PNFHPC) semi-annual meetings; the Western Fish Disease Workshop; Rocky Plains Fish Health Workshop; and Northwest Fish Culture Conference.

The EFHL personnel attended six meetings of the Snake River Sockeye Technical Oversight Committee and the Chinook Captive Rearing Technical Oversight Committee during 2001. We also participated in the Whirling Disease Foundation Symposium, Idaho Chapter of the American

Fisheries Society, project review of captive broodstock technology by the Northwest Power Planning Council, NMFS genetics review, INAD meeting hosted by the National INAD Office (USFWS), and LSRCP Cooperators review.

Staff of the EFHL have cooperated during 2001 with colleagues in the fish health and fisheries management fields through the forum of the PNFHPC (California, Oregon, Washington, Montana, British Columbia, Alaska); Rocky Plains Fish Health Committee (Arizona, Nebraska, Colorado, Nevada, Utah, New Mexico, North Dakota, and South Dakota); membership in the American Fisheries Society, Fish Health Section; cooperative ESA broodstock efforts (U. S. Fish and Wildlife Service, National Marine Fisheries Service, Shoshone-Bannock, and Nez Perce tribes, Bonneville Power Administration); universities (University of Idaho, Washington State University, Oregon State University, University of California-Davis, College of Southern Idaho); and with the Whirling Disease Foundation. We also examined three cases of wild trout collected by the New Mexico Department of Wildlife since their fish health program is just starting.

PRODUCTION STUDIES AND SURVEYS TO ENHANCE FISH HEALTH

The wet lab at the EFHL was used to evaluate production triploid induction rates with Hayspur rainbow trout and cooperative research on WHD exposure in the migration corridor of salmon and steelhead from the upper Salmon River to the Snake River.

We completed exposures of sentinel rainbow trout in the water supply of a potential hatchery site for the Shoshone-Bannock Tribe and at Lost River Trout Company (LRT), Mackay. The Sho-Ban trial demonstrated that the artesian well water was free of MC and could be used for the tribal fish culture program. The LRT exposures demonstrated that the spring water supplies were negative but that a single positive trout was demonstrated from production areas and that the settling pond and Warm Springs Creek downstream of the hatchery effluent was very infectious for MC.

We finalized a project to examine the seasonal pattern of infectivity of MC in the river water supplies of Sawtooth and Pahsimeroi hatcheries. Results demonstrated that sentinel rainbow trout became infected during every month of the year in the Pahsimeroi River. Additionally, EFHL assisted and funded Wade Cavender, a M.S. graduate student of Dr. Ken Cain, University of Idaho, to examine exposure to WD in the migration corridor from the upper Salmon River to the Snake River.

For several years, OTC injections have been given to brood rainbow trout at Hayspur Hatchery to inhibit possible vertical transmission of *F. psychrophilum*, which is a problem at hatcheries receiving eggs from Hayspur Hatchery. The primary recipients of these eggs are American Falls, Grace, Nampa, and Hagerman hatcheries. No control groups have been available to test the efficacy of these injections.

Staff of the EFHL performed inspections of three private aquaculture facilities that import live Tilapia into Canada. This service is provided free of charge and enhances export of Idaho aquaculture products.

RECOMMENDATIONS

The close proximity of surface waters, which have been demonstrated to contain the infectious stage of MC to waters used for fish culture at IDFG hatcheries, requires diligence of all culture personnel to ensure that contamination does not occur. This is true for Ashton, Hayspur, Henrys Lake, and MacKay hatcheries.

Cold-water disease is the most universally encountered pathogen in IDFG hatcheries, including Hayspur Hatchery broodstocks. Pathologists with the California Department of Fish and Game have demonstrated that the pathogen can be vertically transmitted and that Penicillin-G can be effective in preventing vertical transmission. We recommend continuing to apply the practices developed in California at Hayspur Hatchery for CWD control. We will try an autogenous CWD vaccine to see if it could also be useful.

Considerable progress has been made in the control of BKD in chinook cultured at all anadromous stations. This has occurred through diligent application of a four-pronged program including injection of all adult females with Erythromycin, 100% sampling of females by ELISA, segregation or culling of eggs from females deemed "high" by ELISA, and two treatments of progeny with Erythromycin. This program has been very effective. Clinical BKD in progeny has been restricted to progeny of "high" females and the prevalence of BKD "high" adult females has been gradually decreasing over the last two generations. In general, pre-spawning mortality of all adults has been reduced. This program must continue as the highest fish health priority for IDFG hatcheries that raise Chinook salmon.

Expansion of the pathogen-free well water at Pahsimeroi Hatchery needs to be given a high priority for funding by Idaho Power Company. The current program by which Pahsimeroi chinook are reared at Sawtooth Hatchery until a length of seven cm has created considerable competition for well water between programs. Development of additional pathogen-free water at Pahsimeroi Hatchery has resulted in a test well being dug at the upper hatchery site.

The practice of collecting naturally produced parr to initiate broodstocks of the chinook captive rearing program was discontinued. Losses to BKD and the handling stress from *Salmincola* control efforts had been unacceptably high and has limited the number of mature adults produced. Using protocols and equipment similar to those used by the Washington Department of Fish and Wildlife, Staff of Eagle Hatchery safely removing eyed-eggs from naturally-produced redds by hydraulic pumping. This technique has avoided health-related problems in this program.

The IDFG has cooperated in past years with the program of the International Association of Fish and Wildlife Agencies for registration of additional therapeutic agents for aquaculture. Progress toward FDA registration has been slow although there has been expansion of label claims for two compounds. Funding from IDFG license sources was discontinued due to fiscal constraints.

ACKNOWLEDGEMENTS

The staff of the EFHL would like to express our appreciation to the Lower Snake River Compensation Plan, Idaho Power Company, Sport Fish Restoration Program (USFWS), and the sportsmen of the State of Idaho for the financial support of our programs. We also greatly appreciate the assistance provided by the fish culture personnel of all the IDFG hatcheries in obtaining samples when our staff could not be present. This assistance has helped to keep costs down. The cooperative INAD programs of the USFWS and University of Idaho have allowed access to therapeutic compounds while they are in the process of registration by the FDA. The help of the hatchery staffs in the INAD process has likewise been appreciated.

APPENDICES

FISH HEALTH SUMMARY REPORT FOR ALL FISH HATCHERY PROGRAMS



Idaho Department of Fish and Game
Eagle Fish Health Laboratory

Dates received: 1/1/01 TO 12/31/01

LOCATION		Species	Class	Accession	Sample Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock																
1 PANHANDLE REGION			D														
WILD	TWIN LAKES	YELLOW PERCH		01-161	5/30/2001					+	-		+			DIAGNOSTIC	FUR, MAS: AEROMONAS SALMONICIDA (achromogenes) 5/5, AEROMONAS HYDROPHILA 5/5
WILD	UPPER PRIEST LAKE	LAKE TROUT		01-300	8/8/2001	-	-	-	-	-	-	-	+	-		WILD FISH	MAS: VIRO 0/60, NAVHS 0/10, FAT 0/60, ELISA 0/60, AEROMONAS HYDROPHILA 2/12, PSEUDOMONAS SPP. 5/12, WHD-DIGEST 0/60
WILD	TRESTLE CREEK	BULL TROUT		01-314	5/2/2001	-	-		+					-		WILD FISH	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, ELISA 10**/10, PCR-RS 0/4, PTD 0/10
2 CLEARWATER REGION			D														
WILD	WHITEBIRD CREEK	STEELHEAD		01-192	7/8/2000									-		WILD FISH	DIPLOSTIMUM, MYXOBOLUS; DIPLOSTIMUM SPATHACEUM 4/4, PTD 1/1(X4) HISTO 1/4 (IN MUSCLE TISSUE)
WILD	SELWAY R, RATTLESNAKE BAR	WESTSLOPE CUTTHROAT TROUT		01-253	7/11/2001									-		WILD FISH	HENN; PTD-WHD 0/10, PTD-HENNEGUYA SPP. 1/2(x5)
WILD	SELWAY R, TANGO BAR	WESTSLOPE CUTTHROAT TROUT		01-254	7/12/2001									-		WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/3, PTD-HENNEGUYA SPP. 1/1(x3)
WILD	SELWAY R, JIMS CREEK	WESTSLOPE CUTTHROAT TROUT		01-255	7/13/2001									-		WILD FISH	HENN; PTD-WHD 0/10, PTD-HENNEGUYA SPP. 1/2(x5)
WILD	BARGAMIN CREEK	STEELHEAD		01-280	7/8/2001									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/3
WILD	WHITEBIRD CREEK	STEELHEAD		01-282	6/26/2001									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/3
WILD	SLATE CREEK	STEELHEAD		01-284	6/23/2001									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/1
3 SOUTHWEST REGION			D														
WILD	LITTLE JACKS CREEK	RED BAND TROUT		01-238	3/20/2001									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/65
WILD	DUNCAN CREEK	RED BAND TROUT		01-239	3/21/2001									-		WILD FISH	MYXOBOLUS; PTD 8/15(X5), HISTO 1/5 SPORES OBSERVED IN NERVOUS TISSUE--PRESUMPTIVE M. NEUROBIUS, PCR 0/5
WILD	BENNETT CREEK	RED BAND TROUT		01-240	3/22/2001									-		WILD FISH	MYXOBOLUS, HENN; PTD 2/8(x4), HENNEGUYA(PTD) 1/8(x2), HISTO 1/4 MYXOBOLUS SPORES IN MUSCLE & CONNECTIVE TISSUE, PCR-WHD 0/5

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
WILD	SINKER CREEK	RED BAND TROUT	01-241	3/23/2001								-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/55
WILD	JUMP CREEK	RED BAND TROUT	01-242	3/29/2001								-		WILD FISH	HENN; PTD MYXOBOLUS 0/50, HENNEGUYA SPP. 1/10(X5)
WILD	CRAB CREEK	RED BAND TROUT	01-243	4/2/2001								-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/36
WILD	BEAR VALLEY CREEK	STEELHEAD	01-279	8/9/2000								-		WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/6
WILD	CHAMBERLAIN CREEK	STEELHEAD	01-281	7/23/2001								-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/2
WILD	BEAR VALLEY CREEK	STEELHEAD	01-286	8/10/2000								-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/1
WILD	BEAR VALLEY CREEK	CHINOOK SALMON	01-287	8/10/2000								-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/1
BROOD	DEADWOOD RESERVOIR	KOKANEE-EARLY SPAWN	01-387	9/5/2001	-	-	-					-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/32, FAT 0/32, PTD-WHD 0/32
WILD	CASTLE CREEK	RED BAND TROUT	01-607	3/20/2001								-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/69
WILD	CRAB CREEK	RED BAND TROUT	01-609	4/2/2001								-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/9
WILD	DIVE CREEK	RED BAND TROUT	01-610	3/23/2001								-		WILD FISH	MYXOBOLUS; PTD 3/9 (X5), HISTO-WHD 0/5, MYXOB 1/5 (NERVOUS TISSUE)
WILD	LITTLE CANYON CREEK	RED BAND TROUT	01-611	4/4/2001								-		WILD FISH	MYXOBOLUS; PTD 1/8(X5), HISTO-WHD 0/5, MYXOB 1/5 (NERVOUS TISSUE)
3.5 MCCALL SUBREGION		D													
BROOD	PAYETTE LAKE	KOKANEE-EARLY SPAWN	01-414	9/11/2001	-	-	-					-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, PTD 0/60
4 MAGIC VALLEY REGION		D													
WILD	SNAKE RIVER	WHITE STURGEON	01-338	8/23/2001										DIAGNOSTIC	NO PATHOGENS DETECTED; WSIV 0/1
WILD	BIG CREEK	RED BAND TROUT	01-606	4/4/2001								-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/6
WILD	E.F. JARBIDGE RIVER	RED BAND TROUT	01-608	4/5/2001								-		WILD FISH	MYXOBOLUS; PTD 1/17(X5), HISTO-WHD 0/5, MYXOB 1/5 (NERVOUS TISSUE)
WILD	SALMON FALLS CREEK	RED BAND TROUT	01-612	4/4/2001								-		WILD FISH	NO PATHOGENS DETECTED; WHD-DIGEST 0/23
WILD	MCMULLEN CREEK	RED BAND TROUT	01-613	4/4/2001								-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/57
5 SOUTHEAST REGION		D													
WILD	PORTNEUF RIVER	RAINBOW TROUT	01-518	8/31/2000								+		WILD FISH	WHD, MYXOBOLUS SPECIES; PTD 7/7(x5) + 1/2 (x1), HISTO--MYXOBOLUS CEREBRALIS 1/1, NEUROTROPIC MYXOBOLUS SPECIES 1/1
WILD	BLACKFOOT RIVER	YELLOWSTONE CUTTHROAT TROUT	01-521	8/22/2000								+		WILD FISH	WHD, MYXOBOLUS SPECIES, HENN; PTD-WHD 3/11(X5), PTD-HENNEGUYA 1/11(X5), HISTO--MYXOBOLUS CEREBRALIS 1/5, NEUROTROPIC MYXOBOLUS SPECIES 2/5

LOCATION		Class	Sample												ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
WILD	BLACKFOOT RIVER	RAINBOW X CUTTHROAT TROUT HYBRID	01-522	8/22/2001									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/6
6 UPPER SNAKE REGION		D														
WILD	MEDICINE LODGE CREEK	RAINBOW TROUT	01-409	7/27/2001									+		WILD FISH	WHD; PTD-MYXOBOLUS SPP. 12/12 (x5), HISTO-WHD 1/1, PCR-M. CEREBRALIS 5/5, PCR-M. NEUROBIUS 0/5
WILD	BIRCH CREEK	RAINBOW TROUT	01-410	6/6/2001									+		WILD FISH	WHD, MYXOB; PTD 13/13(X5), HISTO-WHD 1/5 MYXOB 4/5
WILD	LITTLE LOST RIVER	RAINBOW TROUT	01-411	6/29/2001									+		WILD FISH	WHD; PTD 5/13(X5)
WILD	HENRYS FORK (UPPER)	RAINBOW TROUT	01-412	7/20/2001									+		WILD FISH	WHD; PTD 2/7(X5), HISTO-MYXOBOLUS CEREBRALIS 1/1
7 SALMON REGION		D														
WILD	UPPER SALMON RIVER	CHINOOK SALMON	01-130	8/18/1989									+		WILD FISH	WHD; PTD 1/4(X5)
WILD	UPPER SALMON RIVER	CHINOOK SALMON	01-131	8/9/1991									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/20
WILD	UPPER SALMON RIVER	CHINOOK SALMON	01-132	8/20/1992									+		WILD FISH	WHD; PTD 4/4(X5)
WILD	FRENCHMAN CREEK - SALMON RIVER	CHINOOK SALMON	01-133	8/22/1992									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/20
WILD	VALLEY CREEK	CHINOOK SALMON	01-134	8/30/1992									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/20
WILD	VALLEY CREEK	CHINOOK SALMON	01-135	8/9/1989									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/20
WILD	VALLEY CREEK	CHINOOK SALMON	01-136	8/9/1990									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/20
WILD	VALLEY CREEK	CHINOOK SALMON	01-137	8/9/1991									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/20
WILD	MARSH CREEK	CHINOOK SALMON	01-138	8/9/1989									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/20
WILD	MARSH CREEK	CHINOOK SALMON	01-139	8/8/1991									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/20
BY99	REDFISH LAKE	SOCKEYE SALMON - HATCHERY SMOLT	01-150	5/16/2001	-	-		-					-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, ELISA 0/10, PTD 0/10
BY99	REDFISH LAKE	SOCKEYE SALMON - HATCHERY SMOLT	01-151	5/17/2001	-	-		+					-		INSPECTION	RS; VIRO 0/10, FAT 0/10, ELISA 1/2(X5, O.D.=0.102), PTD 0/10
BY99	REDFISH LAKE	SOCKEYE SALMON - HATCHERY SMOLT	01-152	5/17/2001	-	-		+					-		INSPECTION	BKD; VIRO 0/10, FAT 0/10, ELISA 1/2(X5, O.D.=0.256), PTD 0/10, SMOLT QUALITY TEST, ORGANOSOMATIC INDEX DONE.
WILD	REDFISH LAKE CREEK	BULL TROUT	01-153	5/16/2001									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/1
WILD	HORSE CREEK	STEELHEAD	01-283	7/10/2001									-		WILD FISH	NO PATHOGENS DETECTED; PTD 0/3
WILD	PAHSIMEROI RIVER	CHINOOK SALMON	01-285	9/1/2000									+		WILD FISH	WHD; PTD 2/2(X4)

LOCATION		Class	Sample														ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH				
WILD	FISH HOOK CREEK	BULL TROUT	01-471	10/2/2001													DIAGNOSTIC	NO PATHOGENS DETECTED; PTD 0/1
WILD	PETTIT LAKE	KOKANEE	01-516	9/29/2000													RESEARCH	NO PATHOGENS DETECTED; PTD 0/15
WILD	REDFISH LAKE CREEK	BULL TROUT	01-517	9/15/1997													WILD FISH	NO PATHOGENS DETECTED; PTD 0/4
WILD	REDFISH LAKE	KOKANEE	01-519	9/27/2000													RESEARCH	NO PATHOGENS DETECTED; PTD 0/5
WILD	ALTURAS LAKE	KOKANEE	01-520	9/26/2000													WILD FISH	NO PATHOGENS DETECTED; PTD 0/30
WILD	REDFISH LAKE	KOKANEE	01-582	9/19/2001													WILD FISH	NO PATHOGENS DETECTED; PTD 0/5
AMERICAN FALLS HATCHERY		A																
2000	TROUTLODGE	KAMLOOPS RBT-TRIPLD	01-164	6/5/2001	-	-			-	-	+	-					DIAGNOSTIC	CWD; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 3/4, PASTEURELLA MULTOCIDA 1/4
2000	TROUTLODGE	KAMLOOPS RBT-TRIPLD	01-248	7/11/2001					-	-	+	-					DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 2/6
2001	HAYSPUR	RAINBOW TROUT-TRIPLD	01-249	7/11/2001					-	-	-	-					DIAGNOSTIC	NO PATHOGENS DETECTED; BACTE 0/4
2001	TROUTLODGE	KAMLOOPS RBT-TRIPLD	01-290	8/3/2001					-	-	+	+					DIAGNOSTIC	CWD, MAS; FLAVOBACTERIUM PSYCHROPHILUM 3/8, SPHINGOMONAS PAUCIMOBILIS 5/8
CABINET GORGE HATCHERY		A																
2001	SULLIVAN SPRINGS	KOKANEE, LATE SPAWN	01-032	2/21/2001	-	-											DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/42
2001	SULLIVAN SPRINGS	KOKANEE, LATE SPAWN	01-111	4/24/2001	-	-			-	-	-	-					DIAGNOSTIC	BGD; VIRO 0/5, PSEUDOMONAS DIMUNATA 4/4(from gills), FUNGUS (from gills) 4/4
BROOD	SULLIVAN SPRINGS	KOKANEE-LATE SPAWN	01-584	12/3/2001	-	-			-								INSPECTION	MYXOBOLUS; VIRO 0/60, FAT 0/60, PTD-MYXOBOLUS 1/12(X5, 1 SPORE), HISTO 0/5, PCR-WHD 0/5, PCR-NEUROTROPIC 0/5
CLEARWATER HATCHERY		C																
1999	HAYSPUR	RAINBOW TROUT	01-038	2/26/2001	-	-			-	-	+	-					INSPECTION	CWD; VIRO 0/10, FLAVOBACTERIUM PSYCHROPHILUM 3/8
2000	N. F. CLEARWATER RIVER	STEELHEAD, B GROUP	01-089	4/6/2001	-	-											INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD 0/20
2001	N. F. CLEARWATER RIVER	STEELHEAD, B GROUP	01-203	6/24/2001					-	-	+	-					DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 7/8
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-295	8/6/2001													INSPECTION	BKD; ELISA 2/2 (LOW 1, HIGH 1)
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-310	8/13/2001	+	-											INSPECTION	BKD, IHN; IHN 2/5(X3), IPNV 0/15, ELISA 15/15 (LOW 8, HIGH 7)
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-318	8/16/2001	-	-											INSPECTION	BKD; VIRO 0/16, NAVHS 0/4, ELISA 16/16 (LOW 11, HIGH 5), PTD
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-326	8/20/2001	+	-											INSPECTION	IHN, BKD; IHN 2/20(X2) IPNV 0/40, NAVHS 0/6, ELISA 59/61 (NEG 2, LOW 36, HIGH 23)
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-368	8/27/2001													INSPECTION	BKD; ELISA 110/111 (NEG 1, LOW 61, HIGH 49)
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-369	8/23/2001													INSPECTION	BKD; ELISA 71/71 (LOW 30, HIGH 41)

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-401	8/30/2001			+							INSPECTION	BKD; ELISA 86/87 (NEG 1, LOW 48, HIGH 38)
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-428	9/4/2001			+							INSPECTION	BKD; ELISA 94/95 (LOW 54, HIGH 40)
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-429	9/6/2001			+							INSPECTION	BKD; ELISA 19/19 (LOW 13, HIGH 6)
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-430	9/10/2001			+							INSPECTION	BKD; ELISA 10/10 (LOW 8, HIGH 2)
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-431	9/14/2001			+							INSPECTION	BKD; ELISA 4/4 (LOW 2, HIGH 2)
2001	N. F. CLEARWATER RIVER	STEELHEAD, B GROUP	01-603	12/13/2001	-	-		-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, BACTE 0/4
2000	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-604	12/12/2001	-	-		-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/6, FAT 0/6, BACTE 0/4
CROOKED RIVER SATELLITE		C													
1999	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-087	4/4/2001	-	-	+						-	INSPECTION	RS; VIRO 0/20, FAT 0/20, ELISA 4/4(X5) (OD=0.105, 0.111, 0.123, 0.110) , PTD 0/20
2000	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-171	6/13/2001	-	-		-	-	+	+			DIAGNOSTIC	MAS, CWD; VIRO 0/8, FAT 0/8, AEROMONAS SOBRIA 8/8, PSEUDOMONAS MALLEI 8/8, FLAVOBACTERIUM PSYCHROPHILUM 3/8
2000	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-439	9/19/2001	-	-	+						-	INSPECTION	RS; VIRO 0/20, FAT 0/20, ELISA 2/4(X5, LOW 2), PTD 0/20
DWORSHAK NFH		C													
BROOD	N. F. CLEARWATER RIVER	STEELHEAD, B GROUP	01-045	3/7/2001	+	-								INSPECTION	IHNV; IHNV 8/100, IPNV 0/100, NAVHS 0/12
BROOD	N. F. CLEARWATER RIVER	STEELHEAD, B GROUP	01-053	3/14/2001	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/55, NAVHS 0/5
BROOD	N. F. CLEARWATER RIVER	STEELHEAD, B GROUP	01-068	3/20/2001	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/63, NAVHS 0/7
EAGLE HATCHERY		D													
BY98	REDFISH LAKE	SOCKEYE SALMON	01-004	1/5/2001	-	-		-						DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-005	1/9/2001	-	-		-						DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-007	1/11/2001	-	-		-						DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-009	1/13/2001	-	-		-	-	-	-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, BACTE
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-011	1/17/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/3
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-013	1/22/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-014	1/23/2001	-	-		-						DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-015	1/25/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY00	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-016	1/26/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-017	1/26/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-018	1/29/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-019	1/31/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-020	2/2/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-021	2/4/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-023	2/9/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-024	2/9/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY00	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-025	2/9/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-026	2/11/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-027	2/12/2001	-	-	+					-		DIAGNOSTIC	RS; VIRO 0/1, FAT 0/1, ELISA 1/1 (OD 0.116), PTD 0/1
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-029	2/13/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-033	2/22/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-036	2/27/2001	-	-	+	-	-	-	+	-		DIAGNOSTIC	RS, MAS, STRP; VIRO 0/1, FAT 0/1, ELISA 1/1 (OD 0.102), AEROMONAS HYDROPHILA 1/1, STREPTOCOCCUS spp. 1/1, PTD
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-042	3/1/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY00	REDFISH LAKE	SOCKEYE SALMON	01-043	3/7/2001	-	-	-	-	-	-	+			DIAGNOSTIC	MAS; VIRO 0/8, FAT 0/8, AEROMONAS HYDROPHILA 6/8
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-048	3/13/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-054	3/15/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY00	REDFISH LAKE	SOCKEYE SALMON	01-079	4/3/2001	-	-	-	-	-	-	+			INSPECTION	MAS; VIRO 0/6, PSEUDOMONAS FLUORESCENS 6/6
BY99	REDFISH LAKE	SOCKEYE SALMON	01-090	4/7/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-092	4/11/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY97	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-101	4/16/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-102	4/17/2001	-	-	-	-	-	-	-	-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, BACTE 0/1, PTD 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-124	5/3/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-129	5/4/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-143	5/10/2001	-	-	-					+		DIAGNOSTIC	WHD; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 1/1

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-145	5/10/2001	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-148	5/15/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-154	5/21/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-155	5/21/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-156	5/22/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, NAVHS 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-157	5/25/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY97	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-165	6/7/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, NAVHS 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-166	6/7/2001	-	-	-					+		DIAGNOSTIC	WHD; VIRO 0/1, NAVHS 0/1, FAT 0/1, ELISA 0/1, PTD 1/1, PRS 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-169	6/12/2001	-	-	-					+		DIAGNOSTIC	WHD; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 1/1, PRS 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-170	6/13/2001	-	-	+					+		DIAGNOSTIC	BKD, WHD; VIRO 0/1, FAT 1/1, ELISA 1/1 (OD=1.243), PTD 1/1, PRS 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-172	6/15/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-173A	6/15/2001	-	-	-					+		DIAGNOSTIC	WHD; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 1/1
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-173B	6/15/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-174	6/15/2001	-	-	-					+		DIAGNOSTIC	WHD; VIRO 0/6, FAT 0/6, ELISA 0/6, PTD 1/6
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-175	6/15/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/5, ELISA 0/6, FAT 0/6, PTD 0/3
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-176	6/15/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, FAT 0/2, ELISA 0/2, PTD 0/2
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-177	6/15/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY97	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-178	6/15/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-179	6/16/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/3, ELISA 0/3, FAT 0/3, PTD 0/3
BY99	REDFISH LAKE	SOCKEYE SALMON	01-180	6/17/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-181	6/17/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, FAT 0/2, ELISA 0/2, PTD 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-182	6/17/2001	-	-	-					+		DIAGNOSTIC	WHD; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 1/1
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-183	6/17/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-184	6/17/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1

LOCATION		Class	Sample												ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH		
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-185	6/18/2001	-	-		-	-	-	-	+	-		DIAGNOSTIC	MAS; VIRO 0/2, EIBS 0/2, FAT 0/2, ELISA 0/2, AEROMONAS HYDROPHILA 1/2, PTD 0/2
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-186	6/18/2001	-	-		-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, EIBS 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-187	6/18/2001	-	-		-	-	-	-	-	-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, EIBS 0/1, FAT 0/1, ELISA 0/1, BACTE 0/1, PTD 0/1, HISTO COMPLETE
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-188	6/18/2001	-	-		+	-	-	-	+			DIAGNOSTIC	RS, MAS; VIRO 0/1, FAT 0/1, ELISA 1/1 (OD=0.147), AEROMONAS HYDROPHILA 1/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-189	6/19/2001	-	-		-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, FAT 0/2, ELISA 0/2, PTD 0/2
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-193	6/21/2001	-	-		-	-	-	-	+	-		DIAGNOSTIC	MAS; VIRO 0/1, FAT 0/1, ELISA 0/1, AEROMONAS HYDROPHILA 1/1, PTD 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-194	6/21/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-195	6/21/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-196	6/21/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-198	6/22/2001	-	-		-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-199	6/23/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-200	6/23/2001	-	-		-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-201	6/24/2001	-	-		-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-202	6/26/2001	-	-		-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY97	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-205	6/27/2001	-	-		-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-207	6/29/2001	-	-		-	-	-	-	-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, BACTE
BY99	REDFISH LAKE	SOCKEYE SALMON	01-208	6/29/2001	-	-		-	-	-	-	-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, BACTE
BY00	REDFISH LAKE	SOCKEYE SALMON	01-215	6/30/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-216	7/1/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-217	7/1/2001	-	-		-					+		DIAGNOSTIC	WHD; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 1/1, PRS 0/1
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-218	7/2/2001	-	-		-	-	-	-	+	-		DIAGNOSTIC	MAS; VIRO 0/1, FAT 0/1, ELISA 0/1, PSEUDOMONAS FLUORESCENS 1/1, PTD 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-219	7/2/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY97	REDFISH LAKE	SOCKEYE SALMON	01-232	7/2/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1

LOCATION		Class	Sample													ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH			
BY98	REDFISH LAKE	SOCKEYE SALMON	01-233	7/2/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/3, FAT 0/3, ELISA 0/3
BY98	REDFISH LAKE	SOCKEYE SALMON	01-235	7/14/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-236	7/5/2001	-	-		-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY00	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-245	7/9/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, FAT 0/2
BY98	REDFISH LAKE	SOCKEYE SALMON	01-246	7/9/2001	-	-		-								DIAGNOSTIC	EXTERNAL MYCOSIS; VIRO 0/1, FAT 0/1, ELISA 0/1
BY00	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-247	7/10/2001	-	-		-	-	-	-	-				DIAGNOSTIC	BACTEREMIA; VIRO 0/1, FAT 0/1, FLAVOBACTER SPP. 1/1
BY97	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-250	7/12/2001	-	-		-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY00	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-251	7/15/2001				-								DIAGNOSTIC	NO PATHOGENS DETECTED; FAT 0/1, ELISA 0/1
BY00	YANKEE FORK RIVER	CHINOOK CAPTIVE	01-256	7/25/2001				-								DIAGNOSTIC	MYCOSIS; FAT 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-258	7/19/2001	-	-		-						+		DIAGNOSTIC	WHD; VIRO 0/1, NAVHS 0/1, FAT 0/1, ELISA 0/1, PTD 1/1
BY97	REDFISH LAKE	SOCKEYE SALMON	01-260	7/22/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-274	7/26/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-275	7/27/2001	-	-		+						+		DIAGNOSTIC	BKD, WHD; VIRO 0/1, FAT 1/1, ELISA 1/1 (OD=3.114), PTD 1/1, PRS
BY98	REDFISH LAKE	SOCKEYE SALMON	01-276	7/30/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, FAT 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-277	8/1/2001	-	-	-	+						+		DIAGNOSTIC	BKD, WHD; VIRO, 0/1, NAVHS 0/1, FAT 1/1, ELISA 1/1(OD= 3.000), PTD 1/1, PRS 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-291	8/6/2001	-	-		-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, FAT 0/1, PTD 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-292	8/6/2001	-	-		-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY00	REDFISH LAKE	SOCKEYE SALMON	01-293	8/6/2001	-	-		-	-	-	-	-				DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, BACTE
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-294	8/6/2001	-	-		-	-	-	-	-				DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, BACTE 0/1, PTD 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-296	8/9/2001	-	-		-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-298	8/9/2001	-	-		-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-299	8/9/2001	-	-		-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-301	8/10/2001	-	-		-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-302	8/10/2001	-	-		-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY97	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-303	8/11/2001	-	-		-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1

LOCATION		Class	Sample												ExamType	Diagnoses	
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH			
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-304	8/12/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-305	8/14/2001	-	-		-					-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY00	REDFISH LAKE	SOCKEYE SALMON	01-306	8/14/2001					-	-	-	+				DIAGNOSTIC	COL, MAS; FLAVOBACTERIUM COLUMNARE 8/8, PSEUDOMONAS SPP. 7/8
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-315	8/17/2001	-	-		-					+			DIAGNOSTIC	WHD; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD-MYXOBOLUS CEREBRALIS
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-317	8/17/2001	-	-		-	-	-	-	+	-			DIAGNOSTIC	MAS; VIRO 0/1, FAT 0/1, ELISA 0/1, PSEUDOMONAS SPP. 1/1, PTD
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-321	8/20/2001	-	-		-					-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-333	8/23/2001	-	-		+					-			DIAGNOSTIC	RS; VIRO 0/3, FAT 2/3, ELISA 1/3 (OD=0.106), PTD 0/3, PRS 0/1
BY98	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-337	8/24/2001	-	-		-					-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY99	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-341	8/25/2001	-	-		-	-	-	-	-				DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/7, FAT 0/7, ELISA 0/7, BACTE
BY99	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-342	8/26/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY99	LEMHI RIVER	CHINOOK CAPTIVE	01-343	8/27/2001	-	-		-					-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY99	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-344	8/27/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-372	8/31/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, FAT 0/2, ELISA 0/2
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-377	9/4/2001	-	-		-					-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY00	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-378	9/4/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-381	9/4/2001	-	-		-					+			DIAGNOSTIC	WHD; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD-WHD 1/1, PRS 0/1
BY00	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-385	9/5/2001	-	-		+	-	-	-	+				DIAGNOSTIC	RS, MAS; VIRO 0/1, FAT 0/1, ELISA 1/1 (OD=0.118), AEROMONAS HYDROPHILA 1/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-407	9/8/2001	-	-		-					-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-417	9/14/2001	-	-		-					-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, FAT 0/3, ELISA 0/2, PTD 0/3, PRS 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-418	9/14/2001	-	-		+					-			INSPECTION	RS; VIRO 0/1, FAT 0/1, ELISA 1/1 (OD 0.154), PTD 0/1, PRS 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-422	9/17/2001	-	-		+					-			DIAGNOSTIC	BKD; VIRO 0/1, FAT 0/1, ELISA 1/1(OD=1.322), PTD 0/1, PRS 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-436	9/21/2001	-	-		-					-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-442	9/24/2001	-	-		-					-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1

LOCATION		Class	Sample												ExamType	Diagnoses	
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH			
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-444	9/24/2001	-	-		-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, FAT 0/2, ELISA 0/2, PTD 0/2, PRS 0/2
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-445	9/24/2001	-	-		-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY99	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-446	9/24/2001	-	-		+							-	INSPECTION	RS; VIRO 0/1, FAT 0/1, ELISA 1/1 (OD=0.103), PTD 0/1
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-460	9/25/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/6, FAT 0/6, ELISA 0/6
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-463	9/26/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/9, FAT 0/9, ELISA 0/9
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-465	9/26/2001	-	-		-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/3, FAT 0/3, ELISA 0/3, PTD 0/3, PRS 0/2
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-466	9/26/2001	-	-		-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-468	9/27/2001	-	-		+							-	DIAGNOSTIC	RS; VIRO 0/1, FAT 0/1, ELISA 1/1 (OD=0.131), PTD 0/1
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-469	10/1/2001	-	-		-							+	INSPECTION	RS, WHD; VIRO 0/4, NAVHS 0/1, ELISA 2/4 (OD=0.124, 0.118), PTD-WHD 2/4
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-470	10/1/2001	-	-		-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-476	10/4/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-477	10/4/2001	-	-		+							+	INSPECTION	RS, WHD; VIRO 0/1, FAT 0/4, ELISA 2/4 (0.101, 0.111), PTD-WHD 1/4
AN01	REDFISH LAKE	SOCKEYE SPAWNER	01-478	10/5/2001	-	-		-	-						+	INSPECTION	WHD; VIRO 0/1, FAT 0/1, ELISA 0/1, BACTE 0/1, PTD-WHD 1/1, CHS 0/1, PRS 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-479	10/5/2001	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
AN01	REDFISH LAKE	SOCKEYE SALMON	01-480	10/5/2001	-	-		-	-						-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, BACTE 0/1, PTD 0/1, CSH 0/1, PRS 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-481	10/10/2001	-	-		-							-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-482	10/10/2001	-	-		-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-483	10/10/2001	-	-		-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-484	10/10/2001	-	-		-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1,PTD 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-485	10/10/2001	-	-		-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-486	10/10/2001	-	-		-							-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-487	10/11/2001	-	-		+								INSPECTION	RS; VIRO 0/3, ELISA 1/3 (OD=0.114)

30

LOCATION		Class	Sample		IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date												
BY98	REDFISH LAKE	SOCKEYE SALMON	01-491	10/12/2001	-	-		-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/7, ELISA 0/7
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-492	10/14/2001	-	-		-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-493	10/15/2001	-	-		-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-494	10/16/2001	-	-		-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/8, ELISA 0/8
BY98	REDFISH LAKE	SOCKEYE SALMON	01-495	10/18/2001	-	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/16, NAVHS 0/4, ELISA 0/17
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-497	10/18/2001	-	-		-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-501	10/19/2001	-	-		-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, ELISA 0/14
AN01	REDFISH LAKE	SOCKEYE SALMON	01-502	10/19/2001	-	-		+	-	-		+	+		INSPECTION	BKD, MAS, WHD, MYCOSIS; VIRO 0/1, ELISA 1/1(OD=1.197), AEROMONAS HYDROPHILA 1/1, Fungus probably Saprolegnia 1/1, PTD-WHD 1/1, PRS 0/1
BY97	REDFISH LAKE	SOCKEYE SALMON	01-503	10/21/2001	-	-		-	-	-		+	-		INSPECTION	MAS; VIRO 0/1, ELISA 0/1, AEROMONAS SPP. 1/1, FUNGUS 1/1, PTD 0/1, PRS 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-504	10/22/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-505	10/22/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY00	REDFISH LAKE	SOCKEYE SALMON	01-506	10/22/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-507	10/22/2001	-	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, NAVHS 0/1, FAT 0/1, ELISA 0/1, PTD 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-508	10/23/2001	-	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, NAVHS 0/8, ELISA 0/20
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-509	10/23/2001	-	-		-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PRS 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-510	10/24/2001	-	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/13, NAVHS 0/4, ELISA 0/13
AN01	REDFISH LAKE	SOCKEYE SALMON	01-512	10/25/2001	-	-		-	-	-		+	+	-	INSPECTION	WHD, MAS; VIRO 0/1, FAT 0/1, ELISA 0/1, AEROMONAS HYDROPHILA 1/1, PTD (HEAD) 1/1 PTD (SKIN) 0/1, CSH 0/1, PRS
BY98	REDFISH LAKE	SOCKEYE SALMON	01-513	10/25/2001	-	-	-	+							INSPECTION	RS; VIRO 0/15, NAVHS 0/6, ELISA 2/15 (OD=0.112, 0.104)
BY99	REDFISH LAKE	SOCKEYE SALMON	01-514	10/25/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1
AN01	REDFISH LAKE	SOCKEYE SALMON	01-523	10/29/2001	-	-		+	-	-		+	+	-	INSPECTION	BKD, MAS, WHD; VIRO 0/4, ELISA 2/4 (OD=0.182, 0.430), AEROMONAS SOBRIA 1/4, PTD-HEADS 2/4, PTD-SKIN 0/4, CSH 0/4,
BY98	REDFISH LAKE	SOCKEYE SALMON	01-524	10/29/2001	-	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/13, NAVHS 0/2, ELISA 0/15
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-525	10/30/2001	-	-		-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD 0/1, PRS 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-528	11/1/2001	-	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/15, NAVHS 0/2, ELISA 0/15

31

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
BY99	REDFISH LAKE	SOCKEYE SALMON	01-533	11/1/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-534	11/2/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-536	11/4/2001	-	-	+							DIAGNOSTIC	RS; VIRO 0/1, ELISA 1/1(OD=0.170)
BY99	REDFISH LAKE	SOCKEYE SALMON	01-538	11/5/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-539	11/5/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, NAVHS 0/2, ELISA 0/2
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-540	11/5/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, WHD-DIGEST 0/1, PRS 0/1
BY98	LEMHI RIVER	CHINOOK CAPTIVE	01-541	11/6/2001	-	-	-					+		INSPECTION	WHD; VIRO 0/21, ELISA 0/21, PTD-WHD 7/21
BY97	LEMHI RIVER	CHINOOK CAPTIVE	01-542	11/6/2001	-	-	-					+		INSPECTION	WHD; VIRO 0/1, ELISA 0/1, PTD-WHD 2/2
BY98	REDFISH LAKE	SOCKEYE SALMON	01-543	11/6/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-544	11/7/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/3, ELISA 0/3
BY96	LEMHI RIVER	CHINOOK CAPTIVE	01-545	11/8/2001								-		INSPECTION	NO PATHOGENS DETECTED; PTD-WHD 0/1
BY98	REDFISH LAKE	SOCKEYE SALMON	01-547	11/8/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/5, ELISA 0/5
BY99	REDFISH LAKE	SOCKEYE SALMON	01-548	11/8/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/53, ELISA 0/53
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-549	11/9/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1, PTD-WHD 0/1, PRS 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-551	11/10/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-552	11/10/2001	-	-	+					-		DIAGNOSTIC	RS; VIRO 0/1, ELISA 1/1(OD=0.102), PTD-WHD 0/1
BY98	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-553	11/11/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1
BY99	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-554	11/14/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/5, ELISA 0/5, PTD-WHD 0/5
BY99	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-555	11/14/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2, PTD-WHD 0/2
BY98	REDFISH LAKE	SOCKEYE SALMON	01-559	11/15/2001	-	-	+							RESEARCH	RS, LYMPHOSARCOMA; VIRO 0/1, ELISA 1/1 (OD 0.107), HISTO-LYMPHOSARCOMA
BY00	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-560	11/15/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, NAVHS 0/1, ELISA 0/1, PTD-WHD 0/1
BY00	YANKEE FORK RIVER	CHINOOK CAPTIVE	01-561	11/15/2001	-	-	-					-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1
BY00	REDFISH LAKE	SOCKEYE SALMON	01-566	11/16/2001	-	-	-	-	-		+			DIAGNOSTIC	MAS; VIRO 0/1, NAVHS 0/1, FAT 0/1, ELISA 0/1, PSEUDOMONAS FLUORESCENS 1/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-567	11/19/2001	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, NAVHS 0/1, ELISA 0/1

LOCATION		Class	Sample		IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date												
BY99	REDFISH LAKE	SOCKEYE SALMON	01-568	11/24/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-569	11/26/2001	-	-		-	-	-	-	+			DIAGNOSTIC	MAS; VIRO 0/2, ELISA 0/2, AEROMONAS SOBRIA 2/2
BY98	REDFISH LAKE	SOCKEYE SALMON	01-578	11/26/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1
BY00	REDFISH LAKE	SOCKEYE SALMON	01-579	11/29/2001	-	-		-	-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/3, ELISA 0/3, FLAVOBACTERIUM PSYCHROPHILUM 1/2, AEROMONAS HYDROPHILA 2/2
BY99	REDFISH LAKE	SOCKEYE SALMON	01-581	11/30/2001	-	-		-	-	-	-	+			DIAGNOSTIC	MAS; VIRO 0/1, ELISA 0/1, AEROMONAS SOBRIA 1/1
BY01	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	01-586	12/11/2001	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY99	REDFISH LAKE	SOCKEYE SALMON	01-614	12/19/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1
BY01	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-621	12/24/2001	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
BY00	REDFISH LAKE	SOCKEYE SALMON	01-622	12/27/2001	-	-		-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1
BY01	W.F. YANKEE FORK	CHINOOK CAPTIVE	01-633	12/31/2001	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1
EAGLE LABORATORY		D														
2000	HAYSPUR	RAINBOW TROUT	01-001	1/3/2001									-		RESEARCH	NO PATHOGENS DETECTED; PTD 0/4
2000	DEADWOOD RESERVOIR	KOKANEE-EARLY SPAWN	01-008	1/12/2001	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/5, EIBS 0/2
2000	HAYSPUR	RAINBOW TROUT	01-012	1/18/2001									+		RESEARCH	WHD; PTD 58/59 (AUG), WHD-PCR 3/3
2000	HAYSPUR	RAINBOW TROUT	01-022	2/5/2001									-		RESEARCH	NO PATHOGENS DETECTED; PTD 0/6
2000	HAYSPUR	RAINBOW TROUT	01-028	2/12/2001									-		RESEARCH	NO PATHOGENS DETECTED; PTD 0/20
2000	HAYSPUR	RAINBOW TROUT	01-030	2/14/2001									+		RESEARCH	WHD; PTD 49/60
1999	REDFISH LAKE	SOCKEYE SALMON	01-035	2/3/2001									+		RESEARCH	WHD; PTD 2/21 (SEPT)
2000	HAYSPUR	RAINBOW TROUT	01-058	3/16/2001									+		RESEARCH	WHD; PTD 44/54 (OCTOBER), WHD-PCR 3/4
2000	HAYSPUR	RAINBOW TROUT	01-098	4/13/2001									+		RESEARCH	WHD; PTD 36/60 (SAWTOOTH EXPOSURE)
2000	HAYSPUR	RAINBOW TROUT	01-146	5/14/2001									+		RESEARCH	WHD; PTD 27/54 (SAWTOOTH & PAHSIMEROI EXPOSURES)
BY99	REDFISH LAKE	SOCKEYE SALMON	01-162	6/4/2001	-	-		-	-	-	-	+	+		RESEARCH	WHD; VIRO 0/4, ELISA 0/4, FAT 0/4, PSEUDOMONAS FLUORESCENS 1/4, PTD 2/4 (EXPOSED TO SALMON RIVER WATER 10/10/00 TO 3/20/01)
2000	HAYSPUR	RAINBOW TROUT	01-168	6/11/2001									+		RESEARCH	WHD; PTD 22/60
N/A	BIO OREGON	CARCASS ANALOGS	01-496	10/18/2001									-		RESEARCH	NO PATHOGENS DETECTED; PTD 0/4 PELLETS
EAGLE WET LAB		D														

33

LOCATION		Class	Sample														ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH				
2001	HAYSPUR	RAINBOW TROUT	01-535	11/2/2001					-	-	+	-					DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 1/2
GRACE HATCHERY		A																
2001	WESTSLOPE TROUT COMPANY	CUTTHROAT TROUT	01-336	8/23/2001	-	-			-	-	+	+					DIAGNOSTIC	CWD, MAS; VIRO 05, FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS HYDROPHILA 4/4
HAGERMAN SFH		C																
2000	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	01-056	3/16/2001	-	-	-		-	-	+	-					INSPECTION	CWD; VIRO 0/10, FLAVOBACTERIUM PSYCHROPHILUM 5/8
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	01-057	3/16/2001	-	-	-		-	-	+	+					INSPECTION	CWD, MAS; VIRO 0/10, NAVHS 0/10, FLAVOBACTERIUM PSYCHROPHILUM 7/8, AEROMONAS CAVIAE 2/8
2001	HAYSPUR	KAMLOOPS RBT-TRIPLOID	01-083	4/5/2001	+	-			-	-	-	-					DIAGNOSTIC	IHN, COL; IHN 1/1(X4), IPNV 0/4, FLAVOBACTERIUM COLUMNARE 4/4
2000	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	01-084	4/5/2001	-	-			+	-	-	+					DIAGNOSTIC	FUR, MAS; VIRO 0/5, AEROMONAS SALMONICIDA 2/4, AEROMONAS HYDROPHILA 3/4
2000	HAYSPUR	KAMLOOPS RBT-TRIPLOID	01-116	4/25/2001	+	-			-	-	-	-					DIAGNOSTIC	IHN, COL, BGD; IHN 1/1(X4) IPNV 0/4, FLAVOBACTERIUM COLUMNARE 4/4, AEROMONAS HYDROPHILA 4/4 (gills)
2000	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	01-117	4/25/2001	+	-			-	-	+	-					DIAGNOSTIC	IHN, CWD; IHN 1/1(X3), IPNV 0/3, FLAVOBACTERIUM PSYCHROPHILUM 2/3
2000	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	01-149	5/16/2001	+	-			-	-	-	-					DIAGNOSTIC	IHN, COL, BGD; IHN 1/1(X5), IPNV 0/5, FLAVOBACTERIUM COLUMNARE (gills) 4/4 (internal 3/4), AEROMONAS CAVIAE (gills)4/4, PSEUDOMONAS FLUORESCENS (gills) 4/4
2001	HAYSPUR	KAMLOOPS RBT-TRIPLOID	01-211	6/29/2001	-	-			-	-	+	-					DIAGNOSTIC	CWD; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 3/5
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	01-212	6/29/2001	-	-			-	-	+	-					DIAGNOSTIC	CWD; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 3/5
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	01-213	6/29/2001	-	-			-	-	+	-					DIAGNOSTIC	CWD; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 2/5
2000	EAGLE CREEK	COHO SALMON	01-334	8/23/2001	-	-			-	-	-	-					DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/4, BACTE 0/4
2001	HAYSPUR	KAMLOOPS RBT-TRIPLOID	01-335	8/23/2001	-	-			-	-	+	-					DIAGNOSTIC	CWD; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4
2001	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	01-499	10/17/2001	-	-			-	-	-	+					DIAGNOSTIC	COL, MAS; VIRO 0/5, AEROMONAS CAVIAE 4/4, FLAVOBACTERIUM COLUMNARE 3/4
2001	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	01-500	10/17/2001					-	-	+	-					DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 3/4
2001	HAYSPUR	KAMLOOPS RBT	01-598	12/13/2001					-	-	+	+					DIAGNOSTIC	CWD, MAS; FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS CAVIAE 4/4
2001	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	01-599	12/13/2001	+	-			-	-	+	-					DIAGNOSTIC	IHN, CWD; IHN 1/1(X3), IPN 0/3, FLAVOBACTERIUM PSYCHROPHILUM 2/3
2001	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	01-600	12/13/2001	-	-			-	-	+	+					DIAGNOSTIC	CWD, MAS; VIRO 0/4, FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS HYDROPHILA 1/4, PSEUDOMONAS SP. 1/4

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	01-620	12/20/2001	-	-		-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/8, FLAVOBACTERIUM PSYCHROPHILUM 8/8, AEROMONAS HYDROPHILA 4/8
HAYSPUR HATCHERY		C													
1999	HAYSPUR	KAMLOOPS RBT	01-312	8/15/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, BACTE 0/12, PTD 0/60
1999	HAYSPUR	RAINBOW TROUT	01-313	8/15/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, BACTE 0/12, PTD 0/60
BROOD	HAYSPUR	KAMLOOPS RBT	01-488	10/10/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/30, NAVHS 0/3, FAT 0/10, OCP-FAT 0/30, ELISA 0/10
BROOD	HAYSPUR	RAINBOW TROUT	01-498	10/17/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/10, OCP-FAT 0/20, ELISA 0/10
BROOD	HAYSPUR	KAMLOOPS RBT	01-511	10/24/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/50, NAVHS 0/5, FAT 0/10, OCP-FAT 0/50, ELISA 0/10
BROOD	HAYSPUR	RAINBOW TROUT	01-526	10/31/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/30, NAVHS 0/5, DFAT 0/10, OCP-FAT 0/30, ELISA 0/10
BROOD	HAYSPUR	KAMLOOPS RBT	01-546	11/7/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/50, NAVHS 0/7, FAT 0/10, OCP-FAT 0/50, ELISA 0/10
BROOD	HAYSPUR	RAINBOW TROUT	01-562	11/15/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/50, NAVHS 0/22, FAT 0/10, OCP-FAT 0/50, ELISA 0/10
2000	HAYSPUR	RAINBOW TROUT	01-563	11/15/2001	-	-	-	-	-	+	-	-		DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 3/4
BROOD	HAYSPUR	RAINBOW TROUT	01-580	11/29/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/50, OCP-FAT 0/50
BROOD	HAYSPUR	RAINBOW TROUT	01-596	12/13/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/30, FAT 0/10, OCP-FAT 0/30, ELISA 0/10
1999	HAYSPUR	KAMLOOPS RBT	01-597	12/13/2001	-	-	-	-	-	+	-	-		DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 2/2
BROOD	HAYSPUR	RAINBOW TROUT	01-623	12/27/2001	-	-	+	-	-	-	-	-		INSPECTION	RS; VIRO 0/20, NAVHS 0/4, FAT 0/20, ELISA 1/20 (LOW 1)
HENRYS LAKE		C													
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-044	3/5/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; OCP-FAT 0/105
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-050	3/8/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/7, OCP-FAT 0/105
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-051	3/12/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; OCP-FAT 0/105
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-062	3/15/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, OCP-FAT 0/126
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-063	3/19/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/21, OCP-FAT 0/126
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-074	3/22/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, OCP-FAT 0/84
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-075	3/26/2001	-	-	-	-	-	-	-	-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/21, NAVHS 0/7, OCP-FAT 0/105

35

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-076	3/29/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/21, OCP-FAT 0/105
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-077	3/29/2001	-	-	+	-	-	-	+	-		INSPECTION	RS, MAS: VIRO 0/60, NAVHS 0/10, FAT 1/60, PSEUDOMONAS spp. 1/16, PTD 0/60
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-095	4/2/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, NAVHS 0/14, OCP-FAT
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-096	4/5/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/7, NAVHS 0/7, OCP-FAT 0/49
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-097	4/10/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/21, NAVHS 0/7, OCP-FAT 0/84
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-107	4/12/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/21, OCP-FAT 0/105
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-108	4/18/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, OCP-FAT 0/77
BROOD	HENRYS LAKE	CUTTHROAT TROUT	01-125	4/25/2001			-							INSPECTION	NO PATHOGENS DETECTED; OCP-FAT 0/21
LOST RIVER TROUT FARM															
BY01	LRT CONTROL	RAINBOW TROUT	01-529	11/1/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/5
BY01	LRT HEADBOX A	RAINBOW TROUT	01-530	11/1/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/5
BY01	LRT HEADBOX ABCD	RAINBOW TROUT	01-531	11/1/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/5
BY01	LRT HEADBOX DIRT PONDS	RAINBOW TROUT	01-532	11/1/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/5
BY01	LRT WSCK > OUTFALLS	RAINBOW TROUT	01-556	10/17/2001								+		RESEARCH	WHD; PTD-MYXOBOLUS CEREBRALIS 5/5
BY01	LRT ABCD EFFLUENT	RAINBOW TROUT	01-557	11/15/2001								-		RESEARCH	MYXOBOLUS SPECIES; PTD-MYXOBOLUS SP. 1/5, PCR-WHD 0/1
BY01	LOST RIVER TROUT FARM	RAINBOW TROUT	01-558	11/14/2001								+		RESEARCH	WHD; PTD-MYXOBOLUS CEREBRALIS 18/21
BY01	LRT CONTROL	RAINBOW TROUT	01-570	11/26/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/44
BY01	LRT HEADBOX A	RAINBOW TROUT	01-571	11/26/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/48
BY01	LRT HEADBOX ABCD	RAINBOW TROUT	01-572	11/26/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD 0/39
BY01	LRT HEADBOX DIRT PONDS	RAINBOW TROUT	01-573	11/26/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/46
BY01	LRT WS CK HEADBOX	RAINBOW TROUT	01-574	11/26/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/51
BY01	LRT ABCD EFFLUENT	RAINBOW TROUT	01-575	11/26/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/19
BY01	LRT END OF SETTLING POND	RAINBOW TROUT	01-576	11/26/2001								+		RESEARCH	WHD; PTD-MYXOBOLUS 13/13, PCR-WHD 3/3 (CONFIRMS M. CEREBRALIS)
BY01	LRT WSCK > OUTFALLS	RAINBOW TROUT	01-577	11/26/2001								+		RESEARCH	WHD; PTD-MYXOBOLUS CEREBRALIS 36/36
2001	LRT WSCK > OUTFALLS	RAINBOW TROUT	01-591	7/30/2001								+		RESEARCH	WHD; PTD-MYXOBOLUS 1/6

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
2001	LRT END OF SETTLING POND	RAINBOW TROUT	01-592	9/11/2001								+		RESEARCH	WHD; PTD-MYXOBOLUS 4/18
2001	LRT ABCD EFFLUENT	RAINBOW TROUT	01-593	10/2/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD 0/10
2001	LRT HEADBOX ABCD	RAINBOW TROUT	01-594	9/4/2001								-		RESEARCH	NO PATHOGENS DETECTED; PTD 0/3
MACKAY HATCHERY		B													
2001	HENRYS LAKE	RAINBOW X CUTTHROAT TROUT HYBRID	01-489	10/11/2001	-	-	-	-	-	-	-	-	-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, BACTE 0/12, PTD 0/60
2000	SNAKE RIVER	FINE SPOT CUTTHROAT TROUT	01-490	10/11/2001	-	-	-	-	-	-	-	-	-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, BACTE 0/12, PTD 0/60
MAGIC VALLEY HATCHERY		C													
2000	SAWTOOTH	STEELHEAD, A GROUP	01-002	1/4/2001	+	-		-	-	+	-			INSPECTION	IHN, CWD; IHNV 1/1(X4), IPNV 0/4, FLAVOBACTERIUM PSYCHROPHILUM 2/4
2000	DWORSHAK	STEELHEAD, B GROUP	01-064	3/21/2001	-	-	-					-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD 0/20
2000	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	01-065	3/21/2001	-	-	-					-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD 0/20
2000	SAWTOOTH	STEELHEAD, A GROUP	01-066	3/21/2001	-	-	-					-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD 0/20
2000	PAHSIMEROI	STEELHEAD, A GROUP	01-067	3/21/2001	-	-	-					-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD 0/20
2000	SAWTOOTH	STEELHEAD, A GROUP	01-099	4/13/2001	-	-		-	-	+				DIAGNOSTIC	CWD, MAS; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS SOBRIA 4/4, AEROMONAS HYDROPHILA 3/4
2001	DWORSHAK	STEELHEAD, B GROUP	01-167	6/8/2001	-	-		-	-	+	+			DIAGNOSTIC	MAS, CWD; VIRO 0/10, PSEUDOMONAS FLUORESCENS 7/8, FLAVOBACTERIUM PSYCHROPHILUM 3/8
2001	DWORSHAK	STEELHEAD, B GROUP	01-191	6/20/2001	+	-		-	-	-	-			DIAGNOSTIC	IHN; IHNV 1/2(X5), IPNV 0/10, BACTE 0/8
2001	DWORSHAK	STEELHEAD, B GROUP	01-209	6/29/2001	-	-		-	-	-	-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/5, BACTE 0/4
2001	SAWTOOTH	STEELHEAD, A GROUP	01-210	6/29/2001	-	-		-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4
2001	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	01-237	7/5/2001	-	-		-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/8, FLAVOBACTERIUM PSYCHROPHILUM 7/8, AEROMONAS HYDROPHILA 4/8
2001	DWORSHAK	STEELHEAD, B GROUP	01-257	7/17/2001	-	-		-	-	+	+			DIAGNOSTIC	CWD; VIRO 0/10, FLAVOBACTERIUM PSYCHROPHILUM 8/8, AEROMONAS HYDROPHILA 2/8
2001	DWORSHAK	STEELHEAD, B GROUP	01-278	7/31/2001				-	-	+	+			DIAGNOSTIC	MAS, CWD; AEROMONAS HYDROPHILA 8/8, FLAVOBACTERIUM PSYCHROPHILUM 2/8
2001	DWORSHAK	STEELHEAD, B GROUP	01-297	8/9/2001	+	-		-	-	+	-			DIAGNOSTIC	IHN, CWD; IHNV 2/2(x5), IPHV 0/10, FLAVOBACTERIUM PSYCHROPHILUM 8/8
2000	DWORSHAK	STEELHEAD, B GROUP	01-438	9/21/2001	+	-		-	-	+	+			DIAGNOSTIC	IHN, CWD, MAS; IHNV 2/2(x5), IPNV 0/10, FLAVOBACTERIUM PSYCHROPHILUM 8/8, AEROMONAS HYDROPHILA 6/8

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
2001	DWORSHAK	STEELHEAD, B GROUP	01-550	11/9/2001	-	-		-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/8, NAVHS 0/8, FLAVOBACTERIUM PSYCHROPHILUM 7/8, AEROMONAS SOBRIA 7/8
2001	SAWTOOTH	STEELHEAD, A GROUP	01-564	11/15/2001	+	-		-	-	+	-			DIAGNOSTIC	IHN, CWD; IHNV 2/2(X5), IPNV 0/10, FLAVOBACTERIUM PSYCHROPHILUM 4/4
2001	PAHSIMEROI	STEELHEAD, A GROUP	01-565	11/15/2001	+	-		-	-	+	-			DIAGNOSTIC	IHN, CWD; IHNV 2/2(X5), IPNV 0/10, FLAVOBACTERIUM PSYCHROPHILUM 4/4
2001	PAHSIMEROI	STEELHEAD, A GROUP	01-618	12/20/2001	+	-		-	-	+	-			INSPECTION	IHN, CWD; VIRO, IHNV 1/1(X5), IPNV 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4
2001	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	01-619	12/20/2001	+			-	-	+	-			INSPECTION	IHN; IHNV 1/1(X5), IPNV 0/5, FLAVOBACTERIUM PSYCHROPHILUM
MCCALL HATCHERY		C													
1999	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-034	2/22/2001	-	-		-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/4, FAT 0/4, BACTE 0/4
1999	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-049	3/13/2001	-	-		+				-		INSPECTION	RS; VIRO 0/20, FAT 0/20, ELISA 3/4(X5, ODS=0.118, 0.114, 0.107), PTD 0/20
2001	WESTSLOPE TROUT COMPANY	CUTTHROAT TROUT	01-408	9/9/2001				-	-	+	-			DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 4/4
2000	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-434	9/18/2001	-	-		-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10
2000	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-601	12/12/2001	-	-		-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/8
MT SHASTA HATCHERY (CA)															
2000	MT SHASTA	RAINBOW TROUT	01-615	12/19/2001									+	RESEARCH	WHD, MYXOBOLUS; PTD 15/25, HISTO-WHD 0/15, MYXOB 1/2 (NERVOUS TISSUE), PCR-WHD 1/2
MULLAN (HALE) HATCHERY		D													
2000	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	01-214	6/28/2001				-	-	+	-			DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 6/6
2001	WESTSLOPE	CUTTHROAT TROUT	01-370	8/30/2001	-	-		-	-	-	-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, BACTE 0/4
NAMPA HATCHERY		A													
2000	HAYSPUR	RAINBOW TROUT	01-010	1/16/2001	-	-		-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/8, FLAVOBACTERIUM PSYCHROPHILUM 8/8
2000	TROUTLODGE	KAMLOOPS RBT	01-039	2/28/2001	-	-		-	-	+	-			DIAGNOSTIC	BACTEREMIA, CWD; VIRO 0/4, PASTEURELLA spp. 2/4, FLAVOBACTERIUM PSYCHROPHILUM 1/4
2000	HAYSPUR	RAINBOW TROUT-TRIPLOID	01-040	2/28/2001				-	-	+	+			DIAGNOSTIC	CWD, MAS; FLAVOBACTERIUM PSYCHROPHILUM 2/4, AEROMONAS HYDROPHILA 2/4
2000	HAYSPUR	KAMLOOPS RBT	01-041	2/28/2001	-	-		-	-	+	+			DIAGNOSTIC	CWD, MAS, SECONDARY MYCOSIS; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS HYDROPHILA 2/4, PSEUDOMONAS ALCALIGENES 4/4, FUNGUS (external lesions)

LOCATION		Class	Sample												ExamType	Diagnoses	
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH			
2000	TROUTLODGE	KAMLOOPS RBT-TRIPIOID	01-159	5/29/2001	-	-		-	-	-	-	-	-	-	-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, BACTE 0/30, PTD 0/60, CSH 0/60
NIAGARA SPRINGS HATCHERY		C															
2000	PAHSIMEROI	STEELHEAD, A GROUP	01-003	1/4/2001	-	-			-	-	-	+				INSPECTION	MAS; VIRO 0/4, AEROMONAS CAVIAE 4/4
2000	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	01-046	3/8/2001	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD 0/20
2000	PAHSIMEROI	STEELHEAD, A GROUP	01-047	3/8/2001	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD 0/20
2000	PAHSIMEROI	STEELHEAD, A GROUP	01-069	3/23/2001	-	-		-	-	-	-	+				INSPECTION	MAS; VIRO 0/6, PSEUDOMONAS FLUORESCENS 5/6
2001	PAHSIMEROI	STEELHEAD, A GROUP	01-288	8/3/2001	-	-		-	-	-	-	+				DIAGNOSTIC	MAS; VIRO 0/4, AEROMONAS CAVIAE 4/4
2001	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	01-289	8/3/2001	-	-		-	-	-	-	-				DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/4, BACTE 0/4
2001	PAHSIMEROI	STEELHEAD, A GROUP	01-461	9/25/2001	-	-		-	-	-	+	+				INSPECTION	MAS, CWD; VIRO 0/10, AEROMONAS HYDROPHILA 8/8, FLAVOBACTERIUM PSYCHROPHILUM 4/4
2001	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	01-462	9/25/2001	-	-		-	-	-	+	+				INSPECTION	MAS, CWD; VIRO 0/10, AEROMONAS HYDROPHILA 8/8, FLAVOBACTERIUM PSYCHROPHILUM 2/8
2001	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	01-616	12/20/2001	-	-		-	-	-	+	+				INSPECTION	CWD, MAS; VIRO 0/10, FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS HYDROPHILA 4/4
2001	PAHSIMEROI	STEELHEAD, A GROUP	01-617	12/20/2001	-	-		-	-	-	+	+				INSPECTION	CWD, MAS; VIRO 0/10, FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS HYDROPHILA 3/4
OXBOW HATCHERY		C															
2000	LYONS FERRY (SNAKE RIVER)	FALL CHINOOK SALMON	01-031	2/15/2001	-	-			-	-	-	+				INSPECTION	MAS; VIRO 0/10, AEROMONAS HYDROPHILA 4/8
2000	LYONS FERRY (SNAKE RIVER)	FALL CHINOOK SALMON	01-055	3/15/2001	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10
BROOD	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	01-073	3/29/2001	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/17, NAVHS 0/2, FAT 0/17, PTD 0/17
BROOD	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	01-094	4/12/2001	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/26, NAVHS 0/4, FAT 0/27, PTD 0/27
2000	LYONS FERRY (SNAKE RIVER)	FALL CHINOOK SALMON	01-100	4/12/2001	-	-		-	-	-	-	-				INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/8
BROOD	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	01-109	4/23/2001	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/29, NAVHS 0/10, FAT 0/16
BROOD	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	01-118	4/26/2001	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/19

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
BROOD	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	01-122	4/30/2001	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/21
BROOD	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	01-128	5/3/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/17, NAVHS 0/3
BROOD	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	01-140	5/7/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/15, NAVHS 0/9
2000	LYONS FERRY (SNAKE RIVER)	FALL CHINOOK SALMON	01-141	5/7/2001	-	-	-	+				-	-	INSPECTION	RS; VIRO 0/60, NAVHS 0/25, FAT 0/60, ELISA 3/11(X5, ODS=0.101, 0.191, 0.118), PTD 0/60, CSH 0/10
2000	LYONS FERRY (SNAKE RIVER)	FALL CHINOOK SALMON	01-190	6/19/2001	-	-		+	+	-		+	-	INSPECTION	RS, FUR, MAS; VIRO 0/60, FAT 0/60, ELISA 2/12(X5, O.D.=0.106,0.104), AEROMONAS SALMONICIDA 8/8, AEROMONAS SOBRIA 5/8PTD 0/20, CSH 0/60
PAHSIMEROI HATCHERY		C													
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	01-061	3/19/2001	-	-	-						+	INSPECTION	WHD; VIRO 0/11, NAVHS 0/1, PTD 1/1(X3)
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	01-070	3/26/2001	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/39, NAVHS 0/10
2000	PAHSIMEROI	SUMMER CHINOOK SALMON	01-071	3/26/2001	-	-		+					+	INSPECTION	RS, WHD; VIRO 0/16, FAT 0/16, ELISA 4/4(X4, ODS=0.118, 0.107, 0.115, 0.110), PTD 3/4(X4)
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	01-081	4/2/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/37, NAVHS 0/7
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	01-082	3/29/2001	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/27
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	01-106	4/16/2001	-	-	-						+	INSPECTION	WHD; VIRO 0/24, NAVHS 0/12, PTD 2/2(x5)
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	01-115	4/23/2001	-	-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/36, PTD 0/7
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	01-123	4/30/2001	-	-	-	-						INSPECTION	NO PATHOGENS DETECTED; VIRO 0/24, NAVHS 0/3, FAT 0/72
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	01-367	8/27/2001				-						INSPECTION	NO PATHOGENS DETECTED; ELISA 0/1
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	01-388	9/2/2001	-			+						INSPECTION	RS; VIRO 0/5, ELISA 3/5 (LOW 3)
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	01-416	9/10/2001	-	-	-	+						INSPECTION	BKD; VIRO 0/10, NAVHS 0/2, ELISA 47/68 (NEG 21, LOW 46, HIGH 1)
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	01-424	9/17/2001	-	-		+					-	INSPECTION	BKD; VIRO 0/46, NAVHS 0/6, ELISA 21/137 (NEG 116, LOW 20, HIGH 1), PTD 0/20
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	01-443	9/20/2001				+						INSPECTION	RS; ELISA 32/63 (NEG 31, LOW 30, HIGH 2)
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	01-464	9/24/2001				+						INSPECTION	RS; ELISA 35/49 (NEG 14, LOW 30, HIGH 5)

40

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	01-474	9/28/2001			+							INSPECTION	BKD; ELISA 13/17 NEG 4, LOW 10, HIGH 3)
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	01-475	10/2/2001			+							INSPECTION	BKD; ELISA 8/11 (LOW 7, HIGH 1)
2000	PAHSIMEROI	SUMMER CHINOOK SALMON	01-527	10/31/2001	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/8, FAT 0/8, BACTE 0/8
POWELL SATELLITE		C													
1999	POWELL	SPRING CHINOOK SALMON	01-088	4/5/2001	-	-	+						-	INSPECTION	RS; VIRO 0/20, FAT 0/20, ELISA 4/4(X5, ODs=0.114, 0.112, 0.111, 0.119), PTD 0/20
2000	POWELL	SPRING CHINOOK SALMON	01-204	6/25/2001			-	-	-	-	-	-	-	INSPECTION	NO PATHOGENS DETECTED; FAT 0/10, BACTE 0/8
BROOD	POWELL	SPRING CHINOOK SALMON	01-309	8/7/2001			+							BROOD	BKD; ELISA 5/6 (NEG 1, LOW 4, HIGH 1)
BROOD	POWELL	SPRING CHINOOK SALMON	01-311	8/14/2001	-	-	+							INSPECTION	BKD; VIRO 0/12, NAVHS 0/4, ELISA 12/12 (LOW 10, HIGH 2)
BROOD	POWELL	SPRING CHINOOK SALMON	01-320	8/17/2001	-	-	+						-	INSPECTION	BKD, HENN; VIRO 0/19, NAVHS 0/3, ELISA 19/19 (LOW 14, HIGH 5), PTD-WHD 0/20, PTD-HENNEGUYA SPP. 1/4(x5)
BROOD	POWELL	SPRING CHINOOK SALMON	01-328	8/21/2001	-	-	+							INSPECTION	BKD; VIRO 0/39, ELISA 37/39 (NEG 2, LOW 31, HIGH 6)
BROOD	POWELL	SPRING CHINOOK SALMON	01-397	8/31/2001			+							INSPECTION	BKD; ELISA 66/66 (LOW 40, HIGH 26)
BROOD	POWELL	SPRING CHINOOK SALMON	01-398	8/24/2001			+							INSPECTION	BKD; ELISA 63/64 (LOW 52, HIGH 11)
BROOD	POWELL	SPRING CHINOOK SALMON	01-399	8/28/2001			+							INSPECTION	BKD; ELISA 153/155 (NEG 2, LOW 116, HIGH 37)
BROOD	POWELL	SPRING CHINOOK SALMON	01-400	8/29/2001			+							INSPECTION	BKD; ELISA 119/119 (LOW 98, HIGH 21)
BROOD	POWELL	SPRING CHINOOK SALMON	01-425	9/5/2001			+							INSPECTION	BKD; ELISA 118/120 (NEG 2, LOW 99, HIGH 19)
BROOD	POWELL	SPRING CHINOOK SALMON	01-426	9/7/2001			+							INSPECTION	BKD; ELISA 94/100 (NEG 6, LOW 77, HIGH 17)
BROOD	POWELL	SPRING CHINOOK SALMON	01-427	9/12/2001			+							INSPECTION	BKD; ELISA 95/95 (LOW 66, HIGH 29)
2000	POWELL	SPRING CHINOOK SALMON	01-441	9/21/2001	-	-	+						-	INSPECTION	RS; VIRO 0/20, NAVHS 0/5, FAT 0/20, ELISA 1/4(X5, LOW), PTD 0/20
PRIVATE		D													
2000	ACE DEVELOPMENT	TILAPIA	01-006	1/10/2001	-	-	-	-	-	-	-	-	-	CERTIFICATIO	NO PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, BACTE 0/60, PTD 0/60, CSH 0/60
2000	ARRAINIA	TILAPIA	01-110	4/24/2001	-	-	-	-	-	-	-	-	-	CERTIFICATIO	NO SIGNIFICANT PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, PLESIOMONAS SHIGELLOIDES 4/60, PTD 0/60, CSH 0/60
2000	FIRST ASCENT FISH FARMS	TILAPIA	01-147	5/14/2001	-	-	-	-	-	-	-	-	-	CERTIFICATIO	NO SIGNIFICANT PATHOGENS DETECTED; VIRO 0/60, NAVHS 0/30, FAT 0/60, PLESIOMONAS SHIGELLOIDES 1/60, PTD 0/60, CSH 0/60
UNKNOWN	UNKNOWN	GOLDFISH	01-206	6/28/2001				-	-	-	-	-	-	DIAGNOSTIC	GYROS, BACTEREMIA; GYRODACTYLUS SPP. 2/2, PASTEURILLA SPP. 1/1

41

LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
2001	ARRAINA, INC	TILAPIA	01-537	11/6/2001	-	-	-	-	-	-	-	-	-	CERTIFICATIO	EDWARDSIELLA: VIRO 0/60, FAT 0/60, EDWARDSIELLA TARDA 5/60, PTD-WHD 0/60, CSH 0/60
2001	ACE DEVELOPMENT	TILAPIA	01-583	12/4/2001	-	-	-	-	-	-	-	-	-	CERTIFICATIO	BACTEREMIA: VIRO 0/60, FAT 0/60, PLESIOMONAS SHIGELLOIDES 10/60, PTD 0/60, CSH 0/60
2001	EPICENTER AQUACULTURE	TILAPIA	01-585	12/10/2001	-	-	-	-	-	-	-	-	-	CERTIFICATIO	BACTEREMIA: VIRO 0/60, FAT 0/60, PLESIOMONAS SHIGELLOSIDES 1/60, AGROBACTERIUM RADIOBACTER 1/60, PTD 0/60, CSH 0/60
RANGEN AQUA CTR		D													
2000	RANGEN	RAINBOW TROUT	01-119	4/12/2001			-							INSPECTION	NO PATHOGENS DETECTED; FAT 0/60, PTD 0/60
RAPID RIVER HATCHERY		C													
1999	RAPID RIVER	SPRING CHINOOK SALMON	01-037	2/26/2001	-	-	-	-	-	-	-	-	-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/8
1999	RAPID RIVER	SPRING CHINOOK SALMON	01-052	3/14/2001	-	-	+							INSPECTION	RS, MYXOBOLUS: VIRO 0/20, FAT 0/20, ELISA 2/4(X5) (ODs=0.124, 0.104), PTD 2/4(X5, HISTO-MYXOB 1/10 (NERVOUS TISSUE)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-319	8/16/2001			+						-	INSPECTION	BKD; ELISA 28/31 (NEG 3, LOW 17, HIGH 11), PTD 0/22
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-327	8/20/2001			+							INSPECTION	BKD; ELISA 93/95 (NEG 2, LOW 55, HIGH 38)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-332	8/23/2001	+	-	+							INSPECTION	BKD, IHNV; IHNV 4/20(X3), IPNV 0/60, NAVHS 0/30, ELISA 147/173 (LOW 95, HIGH 52)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-347	8/27/2001			+							INSPECTION	BKD; ELISA 283/295 (NEG 12, LOW 196, HIGH 87)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-371	8/30/2001			+							INSPECTION	BKD; ELISA 232/243 (NEG 11, LOW 174, HIGH 58)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-376	9/3/2001			+							INSPECTION	BKD; ELISA 267/278 (NEG 11, LOW 147, HIGH 120)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-382	9/4/2001			+							INSPECTION	BKD; ELISA 51/52 (NEG 1, LOW 25, HIGH 26)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-386	9/6/2001	-	-	+							RESEARCH	BKD; VIRO 0/20, ELISA 20/20 (LOW 11, HIGH 9)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-402	9/6/2001			+							INSPECTION	BKD; ELISA 161/170 (NEG 9, LOW 94, HIGH 67)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-413	9/10/2001			+							INSPECTION	BKD; ELISA 34/36 (NEG 2, LOW 17, HIGH 17)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-432	9/13/2001			+							INSPECTION	BKD; ELISA 9/9 (LOW 5, HIGH 4)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	01-433	9/17/2001			+							INSPECTION	BKD; ELISA 3/3 (HIGH 3)
2000	RAPID RIVER	SPRING CHINOOK SALMON	01-602	12/12/2001	-	-	-	-	-	-	-	-	-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/8
RED RIVER SATELLITE		C													
2000	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	01-440	9/20/2001	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, NAVHS 0/5, FAT 0/20, ELISA 0/20, PTD 0/20
SAWTOOTH HATCHERY		C													

42

LOCATION		Class	Sample												ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BY99	REDFISH LAKE	SOCKEYE SALMON	01-059	3/16/2001				+					+		RESEARCH	RS, WHD; FAT 0/21, ELISA 2/4(X5, OD=0.113, 0.110), PTD 1/21, EXPOSED TO RIVER WATER AT SFH (OCTOBER)
1999	SAWTOOTH	SPRING CHINOOK SALMON	01-060	3/20/2001	-	-		+					+		INSPECTION	RS, WHD; VIRO 0/20, FAT 0/20, ELISA 2/4(X5, OD=0.112, 0.112), PTD 4/4(X5)
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-072	3/26/2001	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-078	3/29/2001	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, NAVHS 0/2
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-080	4/2/2001	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/30, NAVHS 0/6
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	01-085	4/3/2001	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-086	4/5/2001	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/32, NAVHS 0/4
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-091	4/9/2001	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/48, NAVHS 0/8
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	01-093	4/10/2001	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/4, NAVHS 0/2
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-103	4/12/2001	-	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/68, NAVHS 0/12, FAT 0/60
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-104	4/16/2001	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/54
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	01-105	4/13/2001	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	01-112	4/17/2001	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/11, NAVHS 0/11
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-113	4/19/2001	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/24
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-114	4/23/2001	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/24, NAVHS 0/2
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	01-120A	4/24/2001	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/3
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	01-120B	4/27/2001	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/3
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-121	4/27/2001	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/12
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-126	4/30/2001	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/8, NAVHS 0/4
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	01-127	5/1/2001	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, NAVHS 0/2
BROOD	SAWTOOTH	STEELHEAD, A GROUP	01-142	5/3/2001	-	-	-						-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/8, NAVHS 0/2, PTD 0/18
BROOD	EAST FORK SALMON RIVER	STEELHEAD, A GROUP	01-144	5/4/2001	-	-	-	-					-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/3, NAVHS 0/1, FAT 0/33, PTD
2000	PAHSIMEROI	SUMMER CHINOOK SALMON	01-160	5/31/2001	-	-		-	-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/8
2000	PAHSIMEROI	SUMMER CHINOOK SALMON	01-197	6/21/2001	-	-		-	-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/8

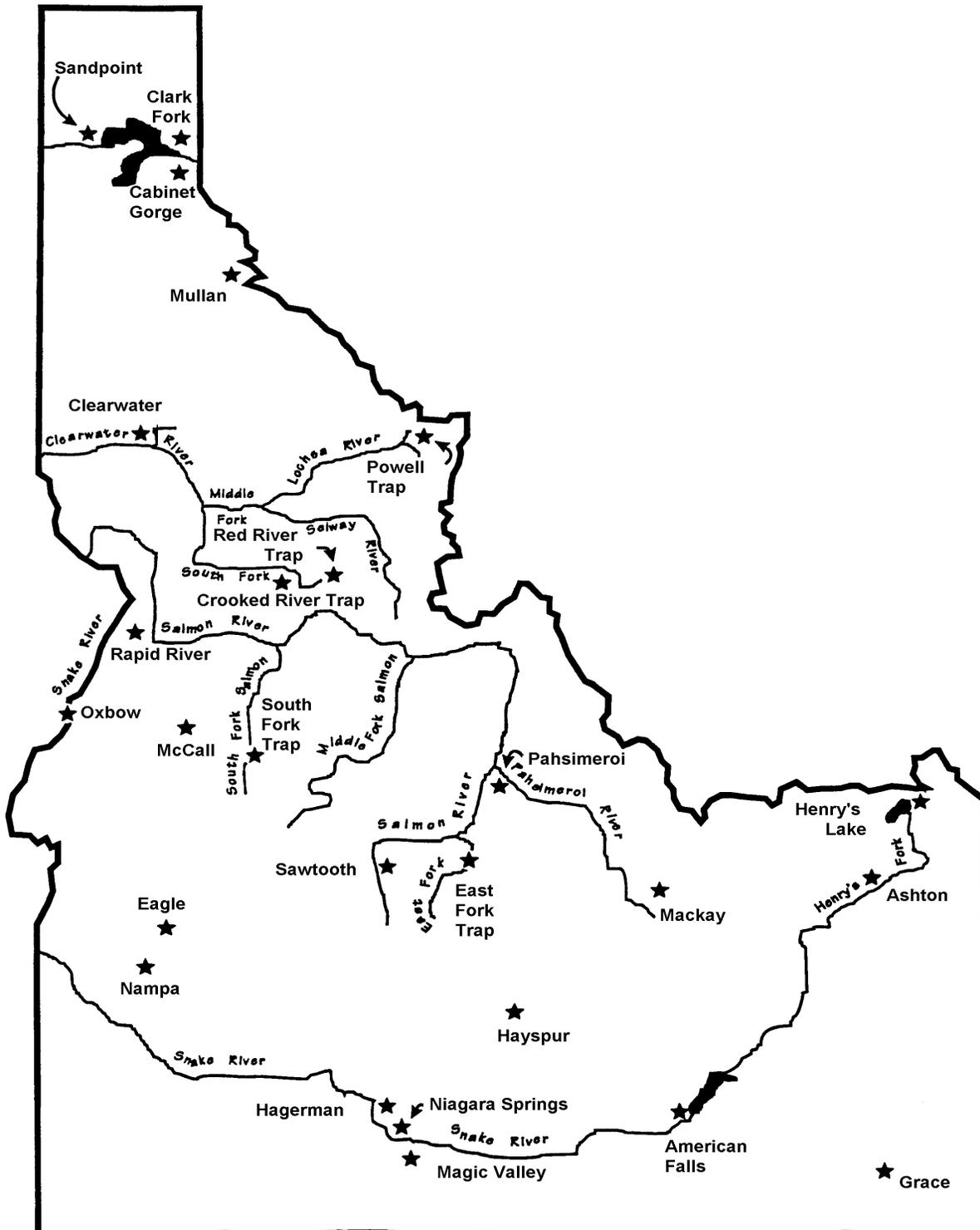
LOCATION		Class	Sample	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date											
2000	SAWTOOTH	SPRING CHINOOK SALMON	01-259	7/18/2001			-	-	-	-	+			DIAGNOSTIC	ICHTHYOBODO, MAS; FAT 0/8, PSEUDOMONAS FLUORESCENS 6/8
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-307	8/9/2001	-	-	+							INSPECTION	BKD; VIRO 0/8, NAVHS 0/4, ELISA 8/8 (LOW 3, HIGH 5)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-308	8/13/2001	-	-	+							INSPECTION	BKD; VIRO 0/16, NAVHS 0/3, ELISA 16/16 (LOW 14, HIGH 2)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-329	8/16/2001	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/24, SEE ASSESSION #01-348 FOR ELISA'S
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-330	8/20/2001	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/12, SEE ACCESSION #01-362 FOR ELISA'S
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-348	8/16/2001			+							INSPECTION	RS; ELISA 17/24 (NEG 7, LOW 17)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-362	8/20/2001			+							INSPECTION	BKD; ELISA 24/38 (NEG 14, LOW 20, HIGH 4)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-363	8/23/2001			+							INSPECTION	BKD; ELISA 37/53 (NEG 16, LOW 35, HIGH 2)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-364	8/27/2001			+					+		INSPECTION	BKD, WHD; ELISA 56/87 (NEG 31, LOW 41, HIGH 15), PTD-WHD
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-389	8/17/2001			+							INSPECTION	BKD; ELISA 7/1 (LOW 6, HIGH 1)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-390	8/21/2001			+							INSPECTION	BKD; ELISA 13/13 (LOW 12, HIGH 1)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-391	8/24/2001			+							INSPECTION	RS; ELISA 6/6 (LOW 6)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-392	8/28/2001			+							INSPECTION	RS; ELISA 22/24 (LOW 22)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-393	8/31/2001			+							INSPECTION	BKD; ELISA 10/10 (LOW 8, HIGH 2)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-394	9/4/2001			+							INSPECTION	BKD; ELISA 11/11 (LOW 7, HIGH 4)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-395	8/30/2001			+							INSPECTION	BKD; ELISA 80/87 (LOW 52, HIGH 28)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-396	9/4/2001			+							INSPECTION	BKD; ELISA 46/46 (LOW 27, HIGH 19)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-404	9/6/2001			+							INSPECTION	BKD; ELISA 14/16 (NEG 2, LOW 11, HIGH 3)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-405	9/7/2001			+							INSPECTION	RS; ELISA 1/1 (LOW 1)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-415	9/10/2001			+							INSPECTION	BKD; ELISA 5/5 (LOW 3, HIGH 2)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-419	9/12/2001			-							INSPECTION	NO PATHOGENS DETECTED; ELISA 0/1
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	01-420	9/14/2001			+							INSPECTION	RS; ELISA 1/1 (LOW)

LOCATION		Class	Sample												ExamType	Diagnoses
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH		
2000	REDFISH LAKE	SOCKEYE SALMON	01-472	10/2/2001	-	-	-	+					-		INSPECTION	RS; VIRO 0/60, NAVHS 0/15, ELISA 1/12(X5, OD=0.100), PTD 0/55
2000	PAHSIMEROI	SUMMER CHINOOK SALMON	01-473	10/2/2001	-	-		-	-	-	-	-	+		INSPECTION	WHD; VIRO 0/20, FAT 0/20, BACTE 0/8, PTD-WHD 2/4(X5)
SHOSHONE-BANNOCK TRIBE																
2001	HAYSPUR	RAINBOW TROUT	01-423	9/17/2001									-		RESEARCH	NO PATHOGENS DETECTED; PTD 0/46
SOUTH FORK TRAP																
		D														
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	01-322	8/17/2001				+					-		INSPECTION	BKD; ELISA 3/5 (NEG 2, LOW 1, HIGH 2), PTD 0/20
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	01-323	8/17/2001				-							INSPECTION	NO PATHOGENS DETECTED; ELISA 0/1
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	01-324	8/21/2001	-	-	-	+							INSPECTION	RS; VIRO 0/3, NAVHS 0/3, ELISA 2/3 (NEG 1, LOW 2)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-325	8/21/2001				+							INSPECTION	RS; ELISA 4/7 (NEG 3, LOW 4)
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	01-339	8/24/2001	-	-		+							INSPECTION	RS; VIRO 0/4, ELISA 2/4 (NEG 2, LOW 2)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-340	8/24/2001	-	-	-	+					-		INSPECTION	BKD; VIRO 0/26, NAVHS 0/18, ELISA 14/26 (NEG 12, LOW 13, HIGH 1), PTD 0/20
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	01-365	8/28/2001				+							INSPECTION	RS; ELISA 3/8 (NEG 5, LOW 3)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-366	8/28/2001	-	-		+							INSPECTION	BKD; VIRO 0/34, ELISA 56/104 (NEG 48, LOW 51, HIGH 5)
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	01-373	8/31/2001	-	-		+							INSPECTION	RS; VIRO 0/7, ELISA 4/7 (LOW 4)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-374	8/31/2001				+							INSPECTION	BKD; ELISA 58/109 (NEG 51, LOW 46, HIGH 12)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-375	9/1/2001				+							INSPECTION	BKD; ELISA 49/66 (NEG 17, LOW 44, HIGH 5)
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	01-383	9/4/2001	-	-		+							INSPECTION	RS; VIRO 0/1, ELISA 1/1 (LOW 1)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-384	9/4/2001				+							INSPECTION	BKD; ELISA 57/81 (NEG 24, LOW 45, HIGH 12)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	01-406	9/7/2001				+							INSPECTION	RS; ELISA 18/23 (NEG 5, LOW 18)

45

Appendix 2. Geographic location of Idaho Department of Fish and Game culture facilities.

IDAHO DEPARTMENT OF FISH AND GAME FISH HATCHERIES



Submitted by:

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