



FISH HEALTH MANAGEMENT

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ABSTRACT

This report contains a description of the activities of the Eagle Fish Health Laboratory (EFHL), operated by the Idaho Department of Fish and Game (Department) for the calendar year 2002. The primary objective of this program is to monitor, inspect, and improve the health of fish raised at 10 resident hatcheries, 11 anadromous hatcheries and satellites, and Eagle Fish 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 coldwater disease, bacterial kidney disease, infectious hematopoietic necrosis virus, bacterial gill disease, whirling 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 six of seven regions of the state were examined for the parasite *Myxobolus cerebralis* that causes whirling disease. There were no new geographic occurrences of the whirling disease parasite this year. The staffs of the EFHL, Eagle Hatchery, and the Department's Salmon Region cooperated in whirling disease research projects with the University of Idaho.

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

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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 (Department) resident fish hatcheries and to assist hatchery personnel in maintaining good health in cultured resident fish. These same services are provided to Department 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 the Anadromous Hatchery Pathologist (AHP) work closely together, often assisting each other in their respective programs and coordinating efforts when those programs overlap. Both pathologists work out of the EFHL, and are supported by the laboratory personnel and facilities there. The American Fisheries Society certifies both individuals as Fish Health Inspectors.

The RHP is the Investigational New Animal Drug (INAD) monitor for the Department resident hatcheries. This is the process by which the US Food and Drug Administration (USFDA) 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. The Department joined the USFWS INAD program in 1998. Chemical compounds used by resident hatcheries under this program during 2002 included oxytetracycline (OTC), Aqui-S (isoeugenol), and luteinizing hormone-releasing hormone analogue (LHRHa). Oxytetracycline is used to treat systemic bacterial infections in many hatcheries, Aqui-S is an experimental fish anesthetic tested at Henrys Lake, and LHRHa was used to speed maturation of male trout at Hayspur Hatchery. Statewide, the single most significant fish disease in the Department's resident hatchery program was bacterial coldwater disease (CWD), caused by *Flavobacterium psychrophilum*. This is a motile, gram-negative bacterium that is usually susceptible to OTC, but requires the use of an INAD protocol for the treatment to be legal. The total number of INAD protocols to use OTC at resident hatcheries increased from 12 in 2001 to 36 in 2002 (25 at Hagerman State Hatchery, alone). The impact of the disease seems to cycle every-other-year, and this was the year for an increase, but that only partially explains the three-fold increase in INAD protocols. A large portion of the increase was due to a more aggressive approach to treating first-feeding fish in the Hagerman State Hatchery vat building that required more documented treatments.

Another responsibility of the RHP was to issue import and transport permits for all the resident programs that brought eggs or fish into the state. This duty involves collecting fish health inspection and certification information from various sources in order to be certain that such importations do not present a significant risk to established fish hatchery programs or the native fish that they may contact. This was the second year for all Department personnel to seek such permits and compliance has been very good. The goal of the program is to increase our ability to track fish imports, eliminate the appearance of a double standard between the Department and other programs, and reduce the risk of adversely impacting Idaho's fishery resources.

The RHP and EFHL personnel examined 105 cases for Department resident hatchery programs during 2002 (19 routine hatchery inspections, 22 inspections of feral brood fish, and 64 diagnostic cases). In addition, one inspection was done for Rangen's Aquaculture (rainbow trout purchased by Idaho Power Company (IPC) for release in American Falls Reservoir), one inspection was done on rainbow trout at the University of Idaho Hagerman Fish Culture Experiment Station, 19 research cases were examined for various hatchery programs, and 42 wild salmonid inspections were done for various Department programs around the state. The majority of the wild fish inspections concentrated on the presence or intensity of *Myxobolus cerebralis* (MC), the causative agent of whirling disease (WD).

A summary of the work done for each Department hatchery, as well as the results of all sampling done at those hatcheries, is as follows.

American Falls Hatchery

Four of four diagnostic examinations documented CWD as the single significant clinical disease at American Falls Hatchery in 2002 (Appendix A). Disease episodes followed a pattern typical for CWD, i.e., a rapid onset of clinical signs and mortality in 4-inch to 6-inch rainbow trout *Oncorhynchus mykiss*, and pathology that included swollen and necrotic kidney and spleen, ascites, and muscular lesions that start from the abdominal cavity and progress outward. In contrast, episodes in 2000 and 2001 involved larger fish (10-inches to 12-inches), and the signs included numerous large, sub-dermal furuncles, randomly distributed over the body. The 2002 episodes also appeared to be much more acute and threatened significantly higher mortality rates than in the previous years. The fish were treated with OTC under six separate INAD protocols at the standard dosage and duration. Response to the treatments was good, with mortality rates returning to near normal.

Ashton Hatchery

The RFP visited the hatchery in January of 2002 to sample the coming year's rainbow trout catchable population. No viral or bacterial pathogens or *Myxobolus* spores were detected (Appendix B). The hatchery manager reports that infestations of the external parasite *Gyrodactylus* continue to be the only significant disease problem on the station. Ashton Hatchery continues to be at risk for MC contamination, because the hatchery water source is not completely enclosed. 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

The RFP sampled spawning kokanee salmon *O. nerka* adults at the Sullivan Springs trap on December 2, 2002 (Appendix C). No replicating viruses, RS organisms, or *Myxobolus* spores were detected. 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.

A single *Myxobolus* spore was detected in the pepsin/trypsin digest test (PTD) from 1 of 12 five-fish pools taken in 2001 from the spawning kokanee at Sullivan Springs. Pepsin/trypsin digest is a relatively quick and easy test, but it only detects spores without enough sensitivity to identify their species. Polymerase chain reaction (PCR) testing was done on this archived sample in August 2002 in an attempt to confirm the species of *Myxobolus* through detection of specific genetic material. The test was negative for both MC and neurotropic *Myxobolus spp.* Thus, while we do not know what species the spore was, we are reasonably certain of what it was not. The State of Montana has confirmed MC in Whitepine Creek, a tributary of the Lower Clark Fork River between Thompson Falls and Trout Creek (personal communication from Jim Peterson, Montana Department of Fish Wildlife and Parks). The proximity of this site to waters in Idaho is of concern and should stimulate much closer monitoring of wild fish from the region.

Unusually high mortalities were noted in swim-up fall Chinook salmon fry late in December. Samples were shipped from Cabinet Gorge Hatchery to EFHL and tested for viruses, but no replicating viruses were detected. Losses declined without treatment and may not have been due to an infectious agent.

Clearwater Hatchery Resident Program

The production facilities at Clearwater were full of anadromous fish in 2002, and are expected to be so for the next few years. A small group of rainbow trout fingerlings was reared for the Panhandle Region, and the hatchery continued to redistribute catchable rainbows reared at Nampa Hatchery. The RHP did not visit Clearwater Hatchery, but the AHP made frequent visits and was available had there been any problems.

Grace Hatchery

Grace Hatchery was back to full production in 2002 after a period of reconstruction. At the same time, the region was affected by a drought that significantly reduced the water flow from the hatchery springs. As a result of these factors, more fish health problems were evident. Specifically, CWD was the diagnosis in five of six inspections, with motile aeromonad septicemia (MAS) in the sixth (Appendix D). Treatments with OTC-medicated feed under INAD 9332 protocols were generally successful in reducing mortalities.

An experiment was set up on August 15 to test the efficacy of Penicillin G (Pen-G) in a static bath to prevent CWD in Westslope cutthroat trout *O. clarki* sac-fry. Chronologically, this was the third such trial (see Hagerman State Hatchery and McCall Hatchery). Four vats were available (1, 2, 3, and 10), so two (2 and 3) were selected for treatment and two (1 and 10) for controls. Standpipes were sealed and water re-circulated using electric submersible pumps placed below the tail screens. The pumps are rated to move 18-20 gallons per minute (gpm), and tests confirmed that volume. Pen-G was added to each vat to create a concentration of 10 International Units (IU)/ml. Air stones connected to a compressed oxygen bottle were placed in each vat, and sealed bags of ice were used to maintain water temperatures. The goal was to treat each vat for 8 hours. Approximately 2 hours into the treatment, the fish began to show signs of lethargy, and became totally inactive within the next 30 minutes. Fresh water was turned on and the fish slowly recovered. A decision was made to continue the treatment in one vat only (number 3), to reduce the risk of inadvertently killing a large number of fish. The same thing happened following two more hours of treatment, so the trial was discontinued. The final total treatment times were 3.5 hours for vat two

and 5.5 hours for vat three. Most of the fish seemed to recover, although losses were slightly elevated in both treated vats for several days. Discussions with the hatchery manager and others have led me to think that the problems during treatment were from a buildup of carbon dioxide and might be alleviated with a packed column to break out the gas.

The results of Pen-G for bath treatment for CWD inhibition were equivocal, in that clinical disease broke out in the fish in September, but the impact of disease was not uniform among the vats. Losses to disease were greatest in vat 10 (control) followed in order by vats 3 and 2 (treatment), and then least in vat 1 (control). An OTC-medicated feed treatment successfully controlled the episode. Further trials need to be done on fish that are less expensive and less critical to Department programs to determine if the carbon dioxide theory is correct and then to determine if a full 8-hour treatment is more effective. Unfortunately, cutthroat trout from this source are the most predictable when it comes to breaking with CWD at an early life stage.

Hagerman State Hatchery

A total of 46 cases (45 diagnostic and 1 inspection), were examined from Hagerman State Fish Hatchery in 2002, with 35 cases involving some level of *F. psychrophilum* infection (Appendix E). Forty-five cases were for rainbow/Kamloops/steelhead trout, the other was for tiger muskie. This was a significant increase from the 18 diagnostic cases in 2001 or the 26 diagnostic cases in 2000. The hatchery manager feels that there is a biennial cycle in which the impacts of CWD and infectious hematopoietic necrosis (IHN) virus alternate in severity. If this is true, 2002 was an exceptionally high peak for CWD, while IHN was definitely much less significant until November and December, when the 2003 production cycle was beginning.

Multiple pathogens are usually detected in clinically ill fish at Hagerman Hatchery. This was true in 33 of the 45 diagnostic cases (73%). Because of this, diagnosis and treatment choice is dependent upon the predominant clinical signs. Infectious hematopoietic necrosis virus (IHN) was detected 13 times, each time in combination with one or more bacterial pathogens (*F. psychrophilum*, *F. columnare*, or an *Aeromonas* species). Approximately half of these cases appeared to be clinical IHN episodes, while the remainder showed signs more typical of bacterial septicemia with the virus in a carrier state. Experience has taught that if the viral infection appears to be carrier, it is usually beneficial to treat the concomitant bacterial infection. However, if the viral infection is clinical, it is generally necessary to let the virus run its course before the treatment of other conditions will be effective.

Several bacterial infections, primarily CWD, MAS, or columnaris disease (COL), were diagnosed without the complication of virus. Again, multiple bacteria species were frequently isolated in conjunction with each other. These episodes were treated with OTC-medicated feed, using the existing label or an INAD protocol, whichever was appropriate for the situation. Success of the treatments was highly variable, usually dependent upon the size of the fish and speed of diagnosis. Specifically, the larger the fish and the quicker the application of therapy, the better the response.

A total of 25 INAD protocols were used to treat CWD or COL. The number of protocols was significantly higher due to an aggressive program to treat small fish in the hatchery vats. There is a long history of losses in the vats, particularly in Hayspur-strain fry within 7-10 days after swim-up. Treatment has been ineffective, primarily because the fish are off feed and too sick by the time that bacterial isolations can be grown for a definite diagnosis. Therefore, the USFWS INAD Coordinator in Bozeman, Montana, gave approval to treat small fish with OTC-medicated feed without a prior

isolation of bacteria. Randomly selected vats of fish were assigned to be untreated controls in order to provide some means of evaluating the trials. No significant losses were observed in either the control or treated vats, (this was good for the fish and the hatchery manager, but bad for the experiment).

The RHP confirmed *Ichthyobodo* parasites on the gills of fry in the hatchery vats on one occasion. This is a common condition at Hagerman, and hatchery personnel generally diagnose and treat outbreaks without requiring the assistance of the RHP.

A first trial of Pen-G bath treatment was applied to Troutlodge rainbow trout fry in the upwelling incubators at Hagerman on June 28. A 16-gallon tub was placed below the incubator outlet and a submersible electric pump was used to recirculate the water back through a garden hose into the incubator inlet. Two adjacent vats were set up to run simultaneously. The first problem with the design to become evident was that the lack of a screen on the incubator allowed fry to flow out into the tub and through the pumps. Nets were set to catch the fry, but they were not very efficient and certainly stressful to the fish that they did catch. The fish that were caught in the pumps were killed. Next, the water temperature rapidly increased due to heat generated by the pumps. Since Hagerman's water supply is naturally 59°F (15°C), this rapidly began to stress the fish. Fresh water was reconnected and bags of ice purchased to alleviate this problem. The test was then continued in one incubator, because the RHP was convinced that all of the fish in the second were already dead! The test was discontinued after a total of about six hours, because the fish in the final incubator were also becoming lethargic and the RHP was reluctant to kill any more fish for the hatchery (remarkably, nearly all of the fish in both incubators recovered). This trial run was intended more to learn the deficiencies in application design than to test the efficacy of the drug in treating disease. Later trials at Grace and McCall hatcheries corrected some of the experimental design problems and were able to provide some data on the efficacy of the drug.

Aeromonas salmonicida, the causative agent of furunculosis (FUR), was again detected at Hagerman State Hatchery. This pathogen, as well as clinical FUR, has been detected at Hagerman for four of the last five years, and so it appears to be established in the Riley Creek system. The epizootics were treated successfully with Romet-30 incorporated in feed under the existing label for the drug.

An inspection of 16 catchable-size rainbow in a raceway on the Riley Creek water supply was done to determine the presence of the parasite that causes proliferative kidney disease (PKD). Hagerman Hatchery was the first site of detection of this disease in Idaho since about 1980. Since then, the incidence of the disease has declined, and the presence of the causative organism has not been confirmed since 1992. The nature of the causative organism, known for many years by the acronym "PKX", was not well understood. Only recently was it given the scientific name *Tetracapsula bryosalmonae*. In addition, PCR primers are now available that make detection of *T. bryosalmonae* much easier and more accurate than the old method of microscopically examining kidney smears. Of the fish sampled, one had a slightly swollen kidney, but tested negative by both microscopic examination and PCR. However, 2 of the 16 fish did test positive for *T. bryosalmonae* genetic material by PCR. The continued presence of the organism has been of academic interest, but the notable lack of clinical disease signs has kept it from being viewed as a serious management issue.

Hayspur Hatchery

The RHPs work at Hayspur Hatchery involved considerable effort to inspect broodstock and broodstock replacement lots. The BY2000 replacement rainbow (R9) and Kamloops (K1) trout populations were inspected in June (Appendix F). No viruses, RS organisms, or *Myxobolus* spores, were detected. No significant bacteria were isolated from the K1 population, but carrier levels of *F. psychrophilum* and *A. hydrophila* were detected in the R9 population. Diagnostic tests were done on R9 adults in June and October. The diagnosis in June was MAS and the fish were treated with OTC-medicated feed. In October, fish were being lost to heavy infestations of *Gyrodactylus*, an external trematode parasite. Treatment with formalin baths removed most of the parasites. The BY2002 Connor Lake cutthroats experienced slightly elevated mortality and were diagnosed with low-level CWD, but losses dropped naturally, so no treatment was applied.

All BY2001 replacement R9s and K1s were given a bath vaccination, using an autogenous *F. psychrophilum* bacterin. Aqua Health Ltd., (Charlottetown, P.E.I., Canada) produced the bacterin from a bacterial isolate taken at Hayspur in January 2002. Unfortunately, most of these fish were lost to otter depredation during the summer, so there was no chance to evaluate the benefit of the vaccination. Two round ponds of BY2000 fish (one R9 and one K1) were given injection vaccinations prior to spawning. Blood was drawn from a random 60 fish in each population prior to injection, and again at 9 weeks (K1s) and 11 weeks (R9s) post-injection. Serum was harvested from all blood samples and stored at -80°C until the samples could be shipped to the University of Idaho. Dr. Ken Cain's laboratory at the University will run the serum samples using enzyme-linked immunosorbent assay (ELISA) to quantify *F. psychrophilum* antibody titers. The results of that trial were a measurable increase in serum antibody titer to *F. psychrophilum* in both injected groups. The hatchery manager also reported that post-spawning mortality was lower in the injected groups compared to those not injected.

Intensive sampling of the replacement broodstock 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). Due to the loss of an entire year class of replacement fish to otters, it was decided not to sacrifice any females for tissue samples this year. 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, the resulting group of eggs was to be culled.

The R9 brood stock replacement spawning began on October 31, 2002 and continued into 2003. This report will include only those results from fish spawned in 2002. Ovarian fluids from 193 females were tested for viruses and RS. No pathogens were detected, so no eggs were culled. The hatchery manager has significant numbers of eggs requested for late winter to spring that he can not provide from fish that spawn in October to December. So he is trying to take more replacement eggs from the small portion of the population that naturally spawn in January to March, in hopes that the resulting offspring will inherit the late-spawning characteristic. One group was taken in late January and more are planned if the fish cooperate. Disease test results from these groups will be reported in the 2003 Fish Health Report.

Kamloops brood stock replacement spawning ran from October 9 to November 25. Ovarian fluids from 154 females were tested for viruses and RS, and no pathogens were detected. No eggs were culled.

A new population of Westslope cutthroat trout, originating from Connor Lake, Canada, was added to Hayspur Hatchery's egg taking program this year. Fish in the wild population from which this lot originated typically mature about age-4, but a majority of this new captive population (BY2000) was discovered to be mature at age-1+. Sampling of spawning fish began on February 26 and continued to April 23. Ovarian fluids from 519 females were tested for viruses and for RS by OCP-FAT. In addition, 10 spawning mortalities were tested for RS by FAT and ELISA. No pathogens were detected by any testing method.

All the eggs from the cutthroat trout were very small and of questionable quality, but the biggest problem seemed to be that the males were not as mature as the females. On March 5, 1994 males were injected with LHRHa in an attempt to increase their sperm output. These males were checked 7 days later. It was subjectively concluded that the percentage of the injected males producing an appreciable quantity of sperm was greater than the percentage of uninjected males that were doing so, and that the motility of the sperm, as observed under a compound microscope, was higher. Other options to induce spermatogenesis may be tested in the future.

The use of sterile rainbow trout in all Department hatcheries has become an important part of statewide fishery management. With the exception of replacement broodstock groups, all eggs taken at Hayspur Hatchery are treated so that the resulting fish will be sterile triploids. To accomplish this, groups of eggs are shocked 20 minutes post-fertilization in a 26°C water bath. A goal of 95% triploid induction has been set for this treatment. Hatchery personnel randomly selected many eggs and gave the RHP subsamples of eyed eggs from those groups for incubation and rearing at the EFHL wet lab. When the resulting fish were large enough, the RFP took blood samples from 40 individuals, and sent them to the Washington State University for triploid analysis. A total of 12 groups were tested from the 2001-2002 spawning season (Figure F). Ten of the twelve groups met the 95% or better goal, with the two deficient groups at 88% and 76%. A total of 475 individual fish were tested, of which 448 (94.3%) were triploid. Improvements have been made in the temperature monitoring system in the warm water baths in hopes of improving induction to meet the 95% goal. Similar testing will be done in 2003.

Henrys Lake Hatchery

Fish health inspection samples were taken from spawning cutthroat trout at Henrys Lake Hatchery from March 7 through April 25, 2002 (Appendix G). Ovarian fluids were collected by hatchery personnel and shipped to EFHL where they were tested for viruses (168 females in 25 seven-fish pools) and RS by OCP-FAT (1421 females in 203 seven-fish pools). A group of 60 fish (both males and females) was sacrificed for kidney FAT, tissue virology, bacteriology (10 fish) and *Myxobolus* tests. No viruses or RS organisms were detected in any of the tissue or ovarian fluid samples. As a result, no eggs were discarded. Bacteriology samples showed a carrier-level infection of *Flavobacter spp.* in 5 of 10 fish, but no other bacterial pathogens were detected. Pathogenicity of *F. indologenes* to fish is not well documented. *Myxobolus* spores were detected in 9 of 12 five-fish pools by the PTD method. Spores from this population have been previously confirmed as MC.

Fish health inspection samples were taken from spawning brook trout from October 22 to November 4. Ovarian fluids were collected by hatchery personnel and shipped to EFHL where they were tested for viruses (38 females in 6 pools of 6 or 7 fish each) and RS by OCP-FAT (204 females in 7 five-fish, 20 six-fish, and 7 seven-fish pools). A group of 30 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 or kidney tissues

tested positive for RS by OCP-FAT. As a result, no eggs were discarded. Bacteriology samples detected *A. salmonicida* (1 of 16), *F. psychrophilum* (6 of 16), and *Pseudomonas fluorescens* (6 of 16). No clinical signs of these bacterial infections were evident. Offspring of this population have experienced clinical furunculosis; therefore, it was recommended that rigorous disinfection of these eggs be done with iodophor prior to transfer to Ashton Hatchery. No *Myxobolus* spores were detected by the PTD method, although this population has been confirmed MC-positive in the past.

Aqui-S was tested on adult cutthroat trout at Henrys Lake Hatchery on April 11. Personnel from the USFWS Bozeman Fish Research Center conducted a pivotal study to support the registration of this compound for use as a food fish anesthetic. Hatchery personnel and the RHP assisted. Evidence suggests that Aqui-S may be somewhat less efficient than MS-222 for hatchery applications in that it has both longer induction and recovery times for cultured fish. However, there continues to be hope that Aqui-S may be registered with no required withdrawal period before the fish may be available for human consumption. This would make the compound highly desirable from a fish research perspective. Plans have been discussed to repeat this experiment at the EFHL using hatchery Chinook salmon, because anadromous fish are not readily available in Bozeman, Montana.

Mackay Hatchery

No significant clinical disease or fish losses occurred at Mackay Hatchery in 2002. The RFP visited the hatchery twice to put out live-boxes of fish for a whirling disease exposure experiment, but did not sample any production fish. The exposure trial utilized Hayspur strain rainbow trout that were reared at Mackay from eyed eggs. Fish from this lot that were kept in an indoor hatchery vat provided the controls for the trial, while live-boxes containing fish were placed in the large raceway head box, the large raceway tailrace, at two positions in the settling pond, and in the outflow creek approximately 150 meters below the settling pond. After 10 days of exposure, the groups of fish were transported to the EFHL wet laboratory for 108 days of rearing/spore development. The separate groups were sampled on September 16 (Appendix H). No spores were detected using the PTD test on fish from the hatchery vat, the large raceway head box, or the large raceway tailrace. Spores were detected in fish from both locations in the settling pond and from the creek below the hatchery. Sentinels from one group exposed in the settling pond and those exposed in the outlet creek tested positive by PCR. There are two significant findings from this trial. First is the discovery that infectivity (i.e., the complete life cycle), has become established in the settling pond as well as in the hatchery branch of Warm Springs Creek. This demonstrates the significant risk for MC contamination to the hatchery production fish by passive vectors such as mink or birds that move freely between the creek and the outside raceways. However, the probability of detecting such contamination is negligible due to the extremely low levels of prevalence and intensity that are likely from such exposures. The second significant finding is that infectivity has not yet become established in the hatchery springs or production raceways at a level that could be detected by PTD. Because the springs and head boxes are covered, they do not provide habitat for the alternate host worms. Therefore, it is reasonable to think that they will remain free of the parasite.

Mackay Hatchery received green eggs from the early-spawning kokanee in Deadwood Reservoir. The spawning population was inspected on August 20. No viruses, RS or *Ceratomyxa shasta* spores were detected. *Myxobolus* spores were detected by PTD in 5 of 12 five-fish pools. Confirmation tests on these samples are pending, but similar tests in the past have indicated the species is not MC.

McCall Hatchery Resident Program

Westslope cutthroat fry at McCall Hatchery have broken out with CWD shortly after first feeding for the two previous years. In anticipation of a third episode, a recirculating bath treatment of Penicillin G at 10 IU/ml was set up on August 5, 2002 to treat all of these fish while they were still in the incubator trays. The fiberglass trough in the vat room was filled with water and the appropriate amount of drug; a tub below the drain caught the overflow. An electric submersible pump was used to take water from the tub back to the top of the trough, and bags of ice in the tub kept heat generated by the pump from significantly increasing the water temperature. Trays from the incubator stack were then placed in the trough. As previously reported in the Grace Hatchery section, the fish became lethargic within about 2 hours. Fresh water was applied until the fish recovered, and then the treatment was resumed. Total treatment time was about 6 hours. Unfortunately, due to flight schedules, most of the fish were stocked into high mountain lakes before there was a chance to evaluate the benefit of the treatment. The Assistant Hatchery Manager reported observing no evidence of disease while fish remained on station.

Nampa Hatchery

Bacterial CWD and MAS were diagnosed from three lots of Kamloops or rainbow trout at Nampa Hatchery (Appendix I). Two groups of fish were treated with OTC-medicated feed under INAD protocols, and the third group was treated under the existing label. All treatments were successful in reducing losses. Considering the total pounds of production, this was another good year for fish health at Nampa.

Anadromous Hatcheries

The Department's 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 Idaho power Company (IPC) contributions. The anadromous pathologist provides diagnostic and inspection services to Chinook salmon, sockeye salmon, and steelhead that are spawned, reared, and released from Department facilities.

The anadromous pathologist also cooperates with other state, private, federal, and tribal programs that could impact Idaho's fishery resource. The anadromous pathologist is the INAD monitor for four applications of therapeutants at these facilities. The annual summary of results for the hatcheries and satellite stations is presented in Appendix 1. In 2002, 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 trout and Chinook salmon in conjunction with Crooked River, Powell, and Red River satellite facilities. Dworshak National Fish Hatchery provides steelhead eggs for Clearwater's steelhead program. A total of 28 inspection and diagnostic cases were attributed to this facility. Two more inspection cases were performed on samples collected at Dworshak National Fish Hatchery. A single IHNV positive female was identified in Steelhead B Group (STB) and eggs of this female were culled from the Clearwater Hatchery program. In 2002, only the STB suffered losses to brood trauma (*F. psychrophilum* was isolated). The OTC-medicated feed was not applied and mortalities subsided after permanent staff reviewed raceway sweeping with the temporaries. Brood Chinook that were transported from Red River and Crooked River (South Fork of the Clearwater spring Chinook) were spawned at Clearwater Hatchery and all 491 females were examined by ELISA for RS. All but two females were found to be positive (ODs > 0.10). The IHNV was found in four of 71 fish examined. Prespawning mortality increased in the South Fork Clearwater Chinook from 13% in 2001 to 19% in 2002. These adults were trapped at satellites and held at Clearwater Hatchery until spawned. This extra handling, elevated water temperatures, and trauma associated with migration and exploitation are possible causes of this elevated mortality. Further investigation into the causes is warranted.

Crooked River Satellite Facility

Fall and spring inspections were applied to acclimating Chinook salmon at this satellite of Clearwater Hatchery. *Renibacterium salmoninarum* (RS) by ELISA was the only pathogen detected in the two pre-liberation samples. Viral replicating agents and MC were not detected. 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 2002. Spring releases of Powell juvenile Chinook were examined for preliberation survey. Six of nine inspection cases were of brood Chinook spawned at this satellite. Viral replicating agents were not detected during routine examinations during spawning. *Pathogen MC* was not found in any of the fish health examinations of both juvenile and adult Chinook at this facility. *Renibacterium* by ELISA and IHNV were found in adult Chinook at spawning. Five hundred and seventy-four Chinook females were examined for *Renibacterium* with ELISA. Of these, 49 females (8.5%) had optical densities deemed "highs" (OD > 0.120 with this year's antibody lots) and the eggs from these were culled. Prespawning mortality of adult Chinook dropped from 12% in 2001 to 3% in 2002 which was probably due to being able to select adults not exhibiting injuries for holding.

Red River Satellite Facility

During 2002, Chinook smolts were released from this facility following a brief acclimation period. No pathogens were detected during fall and spring preliberation sampling. All eight pools of kidney tissues tested by ELISA were negative.

Magic Valley Hatchery

Dworshak, East Fork, Pahsimeroi, and Sawtooth steelhead trout stocks required 13 inspection and diagnostic cases during 2002 at the Magic Valley Hatchery. The diagnostic cases indicated *F. psychrophilum* and IHNV to be the etiological agents. Mortalities caused by *F. psychrophilum* were high enough to warrant medicated feed treatment, and were controlled with OTC-medicated feed applications (INAD 9332).

The organosomatic index demonstrated a very robust fish, with plenty of stored energy. In 2002, Infectious Pancreatic Necrosis Virus (IPNV), Furunculosis, and MC were not found at Magic Valley Hatchery. To curtail any chance of horizontal transmission of pathogens a stringent disinfection program has been applied to this hatchery annually.

McCall Hatchery and South Fork Satellite

In the anadromous program at this facility, six inspection cases were performed for McCall Hatchery and South Fork Trap. Pathogens were not detected preliberation sampling of BY00 juvenile Chinook salmon at McCall Hatchery during this calendar year.

Two prophylactic treatments of twenty-eight days each were applied in June and September to all juvenile Chinook at this facility using INAD 6013.

The South Fork Trap had 14 accessions logged into the EFHL during 2002. Brood summer Chinook salmon, from the South Fork of the Salmon River and Johnson Creek were examined for RS, MC, and viral replicating agents. MC was not detected at this facility while 2 of 86 samples were IHNV positive. Egg lots that were culled from high optical density (OD > 0.19) females

comprised 8.05% of the South Fork stock and 6.25% of the Johnson Creek adults. Prespawning mortality was elevated to 28% (compared with 23% in 2001) and possibly attributed to elevated water temperatures and injuries associated to exploitation. A focused investigation will be required to identify the causes.

Niagara Springs Hatchery

Six inspection cases were attributed to Niagara Springs Hatchery during 2002. Pahsimeroi and Hells Canyon STA lots were examined and MAS and bacterial CWD were responsible for most mortalities. Efforts for improving hatchery practices should focus on inventory manipulations to maintain densities below stressful levels and to manage around opportunistic pathogens such as CWD and MAS. Niagara Springs Hatchery continued to vaccinate steelhead trout against furunculosis (AquaHealth LTD) and this disease was not detected at this facility in 2002.

Oxbow Hatchery

Twelve inspections were made to Oxbow Hatchery. Seven inspection trips for STA adults were examined during spawning for IHNV, IPNV, RS and WD. Pathogens were not detected in the 92 STA adults examined at this facility during 2002.

The fall Chinook salmon sub-yearling culture program is in its second year at this facility. Three inspections were made to demonstrate the presence of pathogens. However, since these fall Chinook are finished on surface water from the Snake River, *C. shasta* is an important potential pathogen. At preliberation, 60 fish were sampled microscopically for this parasite without detection. No other pathogens were detected during routine sampling except for RS using ELISA. One of twelve pools was positive for RS at a low optical density.

Pahsimeroi Hatchery

Sampling for pathogens in steelhead trout and Chinook salmon, juveniles and adults, from Pahsimeroi Hatchery resulted in 23 laboratory accessions to the EFHL in 2002. No virus was detected from any of these efforts during the year. *Renibacterium* was detected by ELISA at low optical density values in preliberation samples of BY00 summer Chinook salmon. ELISA high optical densities were found in 10% of the brood female Chinook salmon during routine sampling. Prespawning mortality of adults decreased from 11% in 2001 to 5% in 2002.

In past years, juvenile Chinook salmon typically became positive for WD when reared on river water since the parasite is endemic to this drainage. Experimental exposures to MC were conducted on a monthly basis at the water intake canal and in the settling ponds of the upper facility. The data suggested that infection with this parasite could be produced at any time of the year in this river. Peak infectivity appeared to be in April, May, and August. Salmonids reared at Pahsimeroi Hatchery have been positive for WD for almost a decade. Preliberation sampling in 2002 of juvenile Chinook salmon did demonstrate 2 positive fish out of 20 sampled. All of the fish were early-reared on wellwater 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. The parasite was not detected in the adult steelhead sampled.

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. Developing a wellwater source for early rearing remains the primary focus of this investigation. This has been an opportunity for the Department and IPC to work together to overcome this problem. With wellwater in high demand at Sawtooth Hatchery, a suitable well water source at Pahsimeroi is necessary.

Rapid River Hatchery

Twenty-six inspection cases were entered from Rapid River Hatchery during 2002. Diagnostic sampling was also done this year at this facility. The majority of these cases were brood Chinook salmon samples, primarily establishing BKD titers for the ELISA-based culling program. BKD and IHNV were detected in routine adult sampling. Prespawning mortality dropped from 35% in 2001 to 20% in 2002. Suspected causes were elevated water temperatures and trauma associated with exploitation. An investigation to accurately document causes of mortality is planned.

External mycosis of juvenile production groups was almost absent compared to levels encountered during the late 1980s and early 1990s. The pathogen RS was detected via ELISA sampling in juveniles at preliberation sampling in 2/4 pools (both low optical densities). This again indicates the success of the BKD control program at Rapid River Hatchery.

Sawtooth Hatchery

Fifty-one inspection cases and eleven diagnostic cases examined juvenile and brood fish at Sawtooth Hatchery in 2002. Juvenile Sawtooth and Pahsimeroi Chinook salmon stocks and Redfish Lake sockeye salmon were examined at this facility. In addition, adult samples were obtained from these and East Fork Salmon River STB and Sawtooth steelhead A Group (STA) adults.

A mortality event occurred immediately following ice-out in BY00 Chinook salmon pre-smolts. This was caused by IHNV and the mortality rate equaled the standard for an epizootic but was isolated to a single raceway and apparently did not transfer to the sockeye salmon in an adjacent raceway. Samples for virus demonstrated 16 of the 60 Chinook tested to be positive for IHNV during this epizootic. The remedial action was to immediately move the sockeye far away from the infected Chinook raceway. This episode clearly indicates the risk of infecting the sockeye with IHNV. The genetic type of the virus isolate was that typical for Chinook in the Columbia basin and was subsequently demonstrated to be very pathogenic for Redfish Lake sockeye by the USGS Fisheries Research Laboratory in Seattle, WA. To ascertain the prevalence and intensity of IHNV in wild and natural Chinook salmon populations of the upper Salmon River, EFHL staff and Department Fisheries Research personnel examined post-spawned carcasses. One of 61 adults was positive for the virus, which subsequently was typed as the common Columbia River Chinook isolate. This detection raised the awareness that the virus is in the river water supply of Sawtooth Hatchery and necessitates continued surveillance in the future and physical separation of Chinook and sockeye salmon at Sawtooth Hatchery during culture.

Preliberation samples of juvenile Chinook salmon showed all four pools to be low-positive for *Renibacterium*. Two of 20 preliberation Chinook were positive for MC. The ELISA testing detected low optical densities of RS in juvenile sockeye salmon and 1 of 21 fish sampled for WD was positive. The sockeye had been reared on river water since October 2001.

Prolonged rearing on wellwater has resulted in decreased detection of WD in Chinook. Sentinel WD exposure experiments demonstrated the seasonality of infection by this parasite and have provided insight into managing around infection. It continues to be very important to rear the Chinook at Sawtooth Hatchery until at least 75 mm on wellwater. Expanding the wellwater supply should also reduce the prevalence and intensity of RS and IHNV.

Prespawning mortality of adult spring Chinook salmon rose from 8% in 2001 to 20% in 2002. Suspected causes of this mortality were associated with migration conditions and elevated holding water temperatures.

Sockeye and Chinook Captive Broodstock

The Department 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 salmon and Chinook salmon programs generate considerable case workload for the EFHL. Program activities for 2002 are reported by species.

Redfish Lake Sockeye Salmon Captive Broodstock

The EFHL 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 2002. 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 2002. This result is consistent with results from previous years. Production groups of BY00 Redfish Lake sockeye salmon had to be destroyed at the ODFW Bonneville Hatchery due to epizootic mortality due to IHNV. Mortality began to elevate in one of three raceways during March and escalated in all three populations through early June when the decision to destroy this production group was made. A total of 68,000 sockeye either died of the virus or were destroyed. As the result of this action, the Redfish Lake population remains the only sockeye salmon population in the Pacific Northwest that does not have IHNV.

Clinical BKD, caused by RS, did not occur in any production groups of sockeye salmon

juveniles reared at Eagle Hatchery or at Sawtooth Hatchery. There were two cases from Sawtooth Hatchery in which elevated ELISA OD values were demonstrated but no evidence of clinical disease was observed. 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.

Furunculosis, caused by *A. salmonicida*, was not detected in any of the anadromous adults retained for spawning in 2002. 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 to control losses in captive reared adults and production groups.

Myxobolus cerebralis, the myxosporean parasite that can cause salmonid whirling disease, is present in the upper Salmon River. Using sentinel rainbow trout fry, EFHL personnel demonstrated the seasonal infectivity in the river water supply of the Sawtooth Hatchery. Infection of this parasite was detected in 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. Sockeye salmon have been reared almost exclusively on pathogen free wellwater at the Sawtooth Hatchery. The pathogen *Myxobolus cerebralis* has not been detected in sockeye smolts emigrating from Redfish, Pettit, or Alturas lakes or from kokanee collected by trawling in these same lakes. The Salmon River migration corridor was demonstrated to be positive for MC as far downstream as Riggins, ID and this is likely how anadromous adults become infected as migrating smolts

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 catalogued in the National Registry of Tumors of Lower Vertebrates at George Washington University Medical Center, an arm of the Smithsonian Institute.

Juvenile Fish Quality Assessment in 2002

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.

Brood Year 2002 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 2002, 111 laboratory accessions (representing 209 fish) were generated at the EFHL from captive Chinook salmon. Cause of mortality and magnitude of loss for Chinook salmon maintained at the Eagle Fish Hatchery during this reporting period 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 (NAVHS). This pathogen does not occur in Idaho but has previously been identified in fish reared in close proximity to the NMFS site. Because of the risk associated with the potential introduction of NAVHS, 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 even with these extra procedures.

Monitoring for BKD in captive Chinook salmon has been routinely conducted since the inception of the program in 1995. Of the 254 fish examined in 2002, none demonstrated clinical levels of BKD by ELISA. 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.

Natural Chinook juveniles collected from the Lemhi River are infected with MC, the causative agent of salmonid WD. For captive broodstocks of Lemhi River Chinook salmon, the prevalence of infection for 2002 was 26%. Mortality has not been attributed to the parasite, but occasional cranial deformities have been observed.

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

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 continue as a concern for the Department. Efforts made in 2002 focused on MC samples from Westslope cutthroat and redband trout in remote areas since these populations were already being sampled for genetic analysis. Samples were processed and reported from six of seven Department fishery management regions.

One set of bull trout samples was obtained from the Little Lost River drainage by USFS biologists. All were negative for MC. These observations are consistent with all other observations from bull trout from Idaho and adds data on the listed species.

Westslope cutthroat trout were sampled at sites on the Selway River. No MC spores were detected but those of *Henneguya salmonis* and the neurotropic species were present in these collections.

No new positive locations for MC in Idaho waters were identified in samples obtained in 2002. 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. The EFHL technologists have developed a PCR test to differentiate the neurotropic species from MC. This test has been applied to samples from many locations and demonstrated that the neurotropic species is widespread in Idaho waters.

The EFHL 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 95 transport or import permits for the IDFG Fisheries Bureau and regional offices during 2002. These permits are required when non-aquaculture species are released to public waters of the State of Idaho. Forty 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 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 2002, annual reports for each anadromous hatchery, 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 some meetings of the Snake River Sockeye Technical Oversight Committee and the Chinook Captive Rearing Technical Oversight Committee during 2002. We also participated in the Whirling Disease Foundation Symposium, Idaho Chapter of the American Fisheries Society, national AFS/Fish Health Section annual meeting, INAD meeting hosted by the National INAD Office (USFWS), LSRCP Cooperators review, and USFWS/IDFG coordination workshops for the Clearwater and Salmon rivers activities.

Staff of the EFHL have cooperated during 2002 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.

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 for cooperative research on WD exposure in the Pahsimeroi River.

Trials using Penicillin-G baths to reduce the effect of *F. psychrophilum* on juvenile rainbow and cutthroat trout were completed at Grace, Hagerman, and McCall hatcheries. Problems with maintaining fish in static baths for a 1-hour duration caused the results to be equivocal.

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.

Coldwater 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 have also tried an autogenous CWD vaccine to see if it would provide control.

Considerable progress has been made in controlling of BKD in cultured Chinook 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 "highs" by ELISA, and two treatments of progeny with Erythromycin. Clinical BKD in juveniles has been eliminated and the prevalence of BKD "high" adult females has been gradually decreasing over the last two generations. This program must continue as the highest fish health priority for IDFG hatcheries that raise Chinook salmon. This year, supplies of Kirkegaard-Perry Laboratories batch 1 antibodies for the BKD ELISA

test were exhausted and we were forced to use those of batch 2. Our prior examination of Chinook salmon kidney tissues was reported in the American Fisheries Society Fish Health Section Newsletter (Scott and Johnson, 2001). The regression analysis provided an adjustment in optical density values for the BKD ELISA culling program. This was implemented in 2002 and was well documented and accepted by hatchery personnel and the National Marine Fisheries Service program oversight groups. The adjustment was from an OD of 0.25 to 0.19 but did not result in greater number of females deemed “highs”.

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 for Pahsimeroi Chinook salmon is that they are reared at Sawtooth Hatchery to a length of seven cm has created considerable competition for well water between culture programs. A test well at the upper Pahsimeroi Hatchery was dug by IPC and EFHL sentinel exposures demonstrated water from this test well was free of MC infectivity.

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 Fisheries and Wildlife, staff of Eagle Hatchery safely removed 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**

Report Date: 4/14/2004

Idaho Department of Fish and Game

Eagle Fish Health Laboratory

Dates received 1/1/2002 TO 12/31/2002

LOCATION		Species	Class	Accession	Sample												ExamType	Diagnoses
BroodYr	Stock				Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH			
2 CLEARWATER REGION			D															
WILD	SHEEP CK (HELLS CANYON)	RAINBOW TROUT		02-357	8/8/2002									-	-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/11, CSH 0/11	
WILD	KIRKWOOD CK (HELLS CANYON)	RAINBOW TROUT		02-358	8/9/2002									-	-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/11, CSH 0/11	
3 SOUTHWEST REGION			D															
BY98	UPPER BIG CREEK	CHINOOK SALMON		02-053	8/18/1999											WILD FISH	NO PATHOGENS DETECTED; PT 0 WHD 0/20	
BY98	LOWER BIG CREEK	CHINOOK SALMON		02-054	8/2/1999											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/20	
WILD	SECESH RIVER	CHINOOK SALMON		02-081	8/1/1989											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/24	
WILD	SECESH RIVER	STEELHEAD		02-082	8/1/1989											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/1	
WILD	UPPER LICK CREEK	STEELHEAD		02-083	8/1/1991											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/6	
WILD	UPPER BIG CREEK	WESTSLOPE CUTTHROAT TROUT		02-276	7/16/2002											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/4	
BROOD	DEADWOOD RESERVOIR	KOKANEE-EARLY SPAWN		02-387	8/20/2002	-	-	-	-							INSPECTION	MYXOBOLUS; VIRO 0/60, NAVHS 0/10, FAT 0/60, PTD-MYXOBOLUS 5/12(X5), CSH 0/20	
4 MAGIC VALLEY REGION			D															
FERAL	TUCKER SPRINGS	RAINBOW TROUT		02-236	6/18/2002	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1	
6 UPPER SNAKE REGION			D															
WILD	S.F. SNAKE RIVER	YELLOWSTONE CUTTHROAT TROUT		02-239	6/19/2002	-	-	+	-	-	-	-	-			WILD FISH	RS; VIRO 0/30, FAT 0/30, ELISA 5/6 (X5, LOW 3 HIGH 2), RS-PCR 0/2 (X5), BACTE 0/20, PTD-WHD 0/30, CSH 0/10, NUCLEOSPORA 0/12, TRUTTAEDACNITIS TRUTTAE	
WILD	SAWMILL CREEK	BULL TROUT		02-653	12/30/2002											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/8	
WILD	LITTLE LOST RIVER	BULL TROUT		02-654	12/30/2002											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5	
WILD	TIMBER CREEK	BULL TROUT		02-655	12/30/2002											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/1	

LOCATION		Class	Sample													Diagnoses	Page 2
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses	
WILD	LOWER SAWMILL CREEK	BULL TROUT	02-656	12/30/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/2
WILD	SAWMILL CREEK	BULL TROUT	02-657	12/30/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/2
WILD	UPPER DUCK CREEK	CUTTHROAT TROUT	02-659	12/30/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/12
WILD	TARGHEE CREEK	CUTTHROAT TROUT	02-660	12/30/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/1
WILD	LITTLE LOST RIVER	BULL TROUT	02-661	12/30/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/2
7 SALMON REGION		D															
BY91	MARSH CREEK	SPRING CHINOOK SALMON	02-049	8/7/1992											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY91	UPPER VALLEY CREEK	SPRING CHINOOK SALMON	02-050	8/1/1992											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY93	UPPER SALMON RIVER	SPRING CHINOOK SALMON	02-051	8/8/1994											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY95	UPPER SALMON RIVER	SPRING CHINOOK SALMON	02-052	4/12/1996											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/1
WILD	LOWER VALLEY CREEK	CHINOOK SALMON	02-084	8/5/1993											-	WILD FISH	NO PATHOGENS DETECTED; 0/20
WILD	UPPER VALLEY CREEK	CHINOOK SALMON	02-085	8/6/1993											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/20
WILD	UPPER SALMON RIVER	CHINOOK SALMON	02-086	8/5/1993											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/20
WILD	REDFISH LAKE CREEK	BULL TROUT	02-201	4/18/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/1
BY00	REDFISH LAKE CREEK	SOCKEYE SALMON - WILD SMOLT	02-202A	5/2/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/6
BY00	REDFISH LAKE CREEK	SOCKEYE SALMON - HATCHERY SMOLT	02-202B	5/2/2002											-	INSPECTION	NO PATHOGENS DETECTED; PTD-WHD 0/5
BY00	REDFISH LAKE CREEK	SOCKEYE SALMON - HATCHERY SMOLT	02-213	5/21/2002	-	-	+	-	-	-	-	-	-	-	INSPECTION	RS, MAS; VIRO 0/10, FAT 0/10, ELISA 9/10 (O.D. = 0.118, 0.105, 0.169, 0.106, 0.109, 0.110, 0.135, 0.176, 0.108), PSEUDOMONAS SPP. 3/10, PTD-WHD 0/10	
BY00	REDFISH LAKE CREEK	SOCKEYE SALMON - HATCHERY SMOLT	02-214	5/21/2002	-	-	+	-	-	-	-	-	-	-	INSPECTION	RS; VIRO 0/10, FAT 0/10, ELISA 3/10 (O.D. = 0.105, 0.110, 0.100), BACTE 0/10, PTD-WHD 0/10	
BY00	REDFISH LAKE CREEK	SOCKEYE SALMON - WILD SMOLT	02-215	5/21/2002	-	-	+	-	-	-	-	-	-	-	INSPECTION	RS; VIRO 0/10, FAT 0/10, ELISA 3/10 (O.D. = 0.100, 0.101, 0.114), PTD-WHD 0/10	
BY00	PETTIT LAKE CREEK	SOCKEYE SALMON - HATCHERY SMOLT	02-216	5/21/2002	-	-	+	-	-	-	-	-	-	-	INSPECTION	RS; VIRO 0/10, FAT 0/10, ELISA 1/10 (O.D. = 0.106), PTD-WHD 0/10	
BY00	ALTURAS LAKE CREEK	SOCKEYE SALMON - HATCHERY SMOLT	02-217	5/21/2002	-	-	+	-	-	-	-	-	-	-	INSPECTION	BKD; VIRO 0/5, FAT 0/5, ELISA 2/5 (O.D. = 0.113, 0.408), PTD-WHD 0/10	
BY00	ALTURAS LAKE CREEK	SOCKEYE SALMON - WILD SMOLT	02-218	5/21/2002	-	-	+	-	-	-	-	-	-	-	INSPECTION	RS; VIRO 0/5, FAT 0/5, ELISA 1/1(X5, O.D. = 0.141), PTD-WHD 0/5	

LOCATION		Class	Sample													Diagnoses	Page 3
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses	
WILD	M.F.SALMON RVR;ELKHORN CK	CUTTHROAT TROUT	02-286	7/18/2002											+	WILD FISH	MYXOBOLUS SPP; PTD-MYXOBOLUS SPP 3/4(x5), PCR-MC 0/5, PCR-NEURO 4/5
WILD	M.F.SALMON RVR;RAPID RIV TO INDIAN CK	CUTTHROAT TROUT	02-287	7/18/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/6
WILD	M.F.SALMON RVR;INDIAN TO PUNGO CK	CUTTHROAT TROUT	02-288	7/18/2002											+	WILD FISH	MYXOBOLUS SPP; PTD-MYXOBOLUS SPP 1/1(X4) PCR-WHD 1/1(x4)
WILD	M.F.SALMON RVR;SOLDIER CK	CUTTHROAT TROUT	02-289	7/21/2002											+	WILD FISH	MYXOBOLUS SPP; PTD-MYXOBOLUS SPP 1/4(X4), PCR
WILD	M.F.SALMON CK	CUTTHROAT TROUT	02-290	7/20/2002											+	WILD FISH	MYXOBOLUS SPP; PTD-MYXOBOLUS SPP 1/4(X5) PCR CONFIRMATION PENDING
WILD	M.F.SALMON RVR;GARDEN CK	WESTSLOPE CUTTHROAT TROUT	02-291	7/18/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/19
WILD	M.F.SALMON RVR;ROARING CK	WESTSLOPE CUTTHROAT TROUT	02-292	7/23/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/20
WILD	M.F.SALMON RVR;INDIAN CK	WESTSLOPE CUTTHROAT TROUT	02-293	7/18/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/28
WILD	M.F.SALMON RVR;WILSON CR.	RAINBOW TROUT	02-294	7/21/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/20
WILD	M.F.SALMON RVR;WILSON CR.	WESTSLOPE CUTTHROAT TROUT	02-295	7/21/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/3
WILD	M.F.SALMON RVR;CACHE CK	WESTSLOPE CUTTHROAT TROUT	02-296	7/19/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/18
WILD	M.F.SALMON RVR;UPPER BIG CR	WESTSLOPE CUTTHROAT TROUT	02-297	7/16/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/3
WILD	M.F.SALMON RVR;SHIP ISLAND CK	WESTSLOPE CUTTHROAT TROUT	02-298	7/22/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/30
WILD	M.F.SALMON RVR;MARBLE CK UPPER	WESTSLOPE CUTTHROAT TROUT	02-299	7/17/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/10
WILD	M.F.SALMON RVR;BOUNDARY CK #2	WESTSLOPE CUTTHROAT TROUT	02-300	7/17/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/4
WILD	M.F.SALMON RVR;MARBLE CK UPPER	WESTSLOPE CUTTHROAT TROUT	02-304	7/17/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5
WILD	M.F.SALMON RVR;MARBLE CK MIDDLE	CUTTHROAT TROUT	02-305	7/18/2002											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5

LOCATION		Class	Sample												Page 4	
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
WILD	M.F.SALMON RVR;MARBLE CK BIG COTTONWOOD	CUTTHROAT TROUT	02-306	7/18/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/8
WILD	M.F.SALMON RVR;SOLDIER CK UPPER	WESTSLOPE CUTTHROAT TROUT	02-307	7/17/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5
WILD	UPPER SALMON RIVER	CARCASS, SPRING CHINOOK SALMON	02-406	8/28/2002	-	-	-								WILD FISH	NO PATHOGENS DETECTED; VIRO 0/20, NAVHS 0/2
WILD	ALTURAS LAKE	KOKANEE	02-435	9/4/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5
WILD	PETTIT LAKE	KOKANEE	02-436	9/4/2002										-	INSPECTION	NO PATHOGENS DETECTED; PTD-WHD 0/5
WILD	REDFISH LAKE	KOKANEE	02-437	9/5/2002										-	INSPECTION	NO PATHOGENS DETECTED; PTD-WHD 0/11
WILD	PETTIT LAKE	KOKANEE	02-438	9/6/2002											WILD FISH	NO PATHOGENS DETECTED; HISTO INCONCLUSIVE
WILD	REDFISH LAKE CREEK WEIR	CARCASS, SPRING CHINOOK SALMON	02-478	9/20/2002	-	-		-						-	WILD FISH	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1
WILD	LEMHI RIVER	SPRING CHINOOK SALMON	02-495	9/30/2002	-	-		+						+	WILD FISH	BKD, WHD; VIRO 0/89, ELISA 12/18, (OD 0.105, 0.115, 0.114, 0.109, 0.104, 0.106, 0.148, 0.151, 0.376, 0.139, 0.132, 0.120), PTD-WHD 18/18 pools(X5), PTD-WHD 18/21 individuals (pools 4, 7, 11, & 16)
WILD	LEMHI RIVER	STEELHEAD	02-496	10/1/2002	-	-		-						+	WILD FISH	WHD; VIRO 0/1, ELISA 0/1, PTD-WHD 1/1
WILD	M.F.SALMON RVR;MARBLE CRBIG COTTONWOOD	WESTSLOPE CUTTHROAT TROUT	02-600	9/20/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/22
WILD	IMOGENE LAKE 1	WESTSLOPE CUTTHROAT TROUT	02-640A	8/16/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/4
WILD	IMOGENE LAKE 2	WESTSLOPE CUTTHROAT TROUT	02-640B	8/16/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/1
WILD	IMOGENE LAKE 3	WESTSLOPE CUTTHROAT TROUT	02-640C	8/16/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5
ACE DEVELOPMENT																
2002	HYBRID	TILAPIA	02-618	12/4/2002	-	-		-	-	-				-	CERTIFICATIO	BACTERMIA; VIRO 0/60, FAT 0/60, PLESIOMONAS SHIGELLOIDES 2/60, WHD 0/60, CSH 0/60
ACE DEVELOPMENT/ARRANIA																
MIXED	ACE DEVELOPMENT	TILAPIA	02-272	7/11/2002	-	-		-	-	-				-	CERTIFICATIO	NO SIGNIFICANT PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, PLESIOMONAS SHIGELLOIDES 11/60, STREPTOCOCCUS SP 4/60, PTD-WHD 0/60, CSH 0/60
MIXED	ARRAINA, INC	TILAPIA	02-273	7/11/2002	-	-		-	-	-				-	CERTIFICATIO	NO SIGNIFICANT PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, PLESIOMONAS SHIGELLOIDES 7/60, PTD-WHD 0/60, CSH 0/60
AMERICAN FALLS HATCHERY																

LOCATION		Class	Sample												ExamType	Diagnoses	Page 5
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses	
2001	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-094	3/20/2002	-	-			-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4	
2001	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-168	4/23/2002					-	-	+	-			DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 8/8	
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-431	9/6/2002	-	-	-		-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/4, NAVHS 0/4, FLAVOBACTERIUM PSYCHROPHILUM	
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-623	12/5/2002					-	-	+	-			DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 8/8	
ARRANIA			D														
2002	HYBRID	TILAPIA	02-619	12/4/2002	-	-		-	-	-		-	-	-	CERTIFICATIO	EDWA; VIRO 0/60, FAT 0/60, EDWARDSIELLA TARDA 6/60, WHD 0/60, CSH 0/60	
ASHTON HATCHERY			B														
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-015	1/10/2002	-	-		-	-	-	-	-	-	-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, BACTE 0/12, PTD-WHD 0/60	
CABINET GORGE HATCHERY			A														
BROOD	SULLIVAN SPRINGS	KOKANEE-LATE SPAWN	02-620	12/2/2002	-	-		-					-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, PTD-WHD 0/60	
2002	BIG CREEK	FALL CHINOOK SALMON	02-649	12/23/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/15	
CLEARWATER HATCHERY			C														
2001	N. F. CLEARWATER RIVER	STEELHEAD, B GROUP	02-058	2/26/2002	-	-			-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/9, BACTE 0/4	
2000	POWELL	SPRING CHINOOK SALMON	02-059	2/26/2002	-	-			-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/4, BACTE 0/4	
2001	N. F. CLEARWATER RIVER	STEELHEAD, B GROUP	02-122	4/6/2002	-	-							-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD-WHD 0/20	
2000	RAPID RIVER	SPRING CHINOOK SALMON	02-123	4/6/2002	-	-		+					-		INSPECTION	RS; VIRO 0/20, FAT 0/20, ELISA 2/4(X5, BOTH LOW), PTD-WHD 0/20	
2001	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-126	4/8/2002	-	-			-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/10, FLAVOBACTERIUM PSYCHROPHILUM 7/8	
2001	POWELL	SPRING CHINOOK SALMON	02-212	5/19/2002	-	-			-	-	-	+			INSPECTION	MAS; VIRO 0/6, FAT 0/6, AEROMONAS HYDROPHILA 2/6, PSEUDOMONAS FLUORENSCENS 1/6	
2001	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-343	8/6/2002	-	-			-	-	-	+			INSPECTION	MAS; VIRO 0/10, FAT 0/10, PSEUDOMONAS SPP. 5/10	
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-344	8/6/2002	-	-		+					-		INSPECTION	RS; VIRO 0/1, ELISA 6/11 (LOW 3, HIGH 3), PTD-WHD 0/18	
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-360	8/13/2002	+	-		+					-		INSPECTION	IHNV, BKD; IHNV 12/17(X3), IPNV 0/57, NAVH 0/15, ELISA 8/57 (LOW 3, HIGH 5), PTD-WHD 0/2	
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-373	8/16/2002				+							INSPECTION	BKD; ELISA 6/48 (LOW 2, HIGH 4)	
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-384	8/20/2002				+							INSPECTION	BKD; ELISA 23/92 (LOW 9, HIGH 14)	
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-410	8/23/2002				+							INSPECTION	BKD; ELISA 50/67 (LOW 31, HIGH 19)	
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-411	8/27/2002				+							INSPECTION	BKD; ELISA 39/90 (LOW 21, HIGH 18)	

LOCATION		Class	Sample												ExamType	Diagnoses	Page 6	
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH				
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-448	8/30/2002				+								INSPECTION	BKD; ELISA 15/35 (LOW 8, HIGH 7)	
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-449	9/3/2002				+								INSPECTION	RS; ELISA 9/16 (LOW 9)	
BROOD	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-450	9/6/2002				+								INSPECTION	BKD; ELISA 5/7 (LOW 4, HIGH 1)	
2001	POWELL	SPRING CHINOOK SALMON	02-588	11/7/2002	-	-	-	+	-	-	-	-				DIAGNOSTIC	INTERNAL MYCOSIS, BKD; VIRO 0/20, FAT 1/20, FUNGUS/BACTERIA 2/8	
CROOKED RIVER SATELLITE		C																
2000	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-119	4/4/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/17, FAT 0/17, ELISA 0/17, PTD-WHD 0/16	
2001	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-466	9/18/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/21, ELISA 0/4, PTD-WHD 0/20	
DWORSHAK NFH		C																
BROOD	N. F. CLEARWATER RIVER	STEELHEAD, B GROUP	02-070	3/5/2002	+	-	-									INSPECTION	IHNV; IHNV 1/159, IPNV 0/159, NAVHS 0/9	
BROOD	N. F. CLEARWATER RIVER	STEELHEAD, B GROUP	02-080	3/12/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/56, NAVHS 0/6	
EAGLE HATCHERY		D																
BY00	W.F. YANKEE FORK	CHINOOK CAPTIVE	02-001	1/3/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-007	1/9/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY00	REDFISH LAKE	SOCKEYE SALMON	02-008	1/9/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY01	W.F. YANKEE FORK	CHINOOK CAPTIVE	02-011	1/10/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1	
BY99	EAST FORK SALMON RIVER	CHINOOK CAPTIVE	02-044	2/19/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-048	2/25/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY01	W.F. YANKEE FORK	CHINOOK SALMON	02-091	3/20/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1	
BY00	W.F. YANKEE FORK	CHINOOK SALMON	02-100	3/25/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY99	LEMHI RIVER	CHINOOK SALMON	02-106	3/28/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-107	4/2/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-117	4/5/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY00	REDFISH LAKE	SOCKEYE SALMON	02-118	4/7/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1	
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-124	4/8/2002	-	-		-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-125	4/8/2002	-	-		-	-	-	-	-				DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, BACTE 0/1	

LOCATION		Class	Sample													ExamType	Diagnoses	Page 7
BroodY4	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses		
BY00	W.F. YANKEE FORK	CHINOOK SALMON	02-128	4/9/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, BACTE 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-129	4/9/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-133	4/10/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-134	4/10/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	REDFISH LAKE	SOCKEYE SALMON	02-137	4/12/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-138	4/12/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-141	4/12/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-142	4/13/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-143	4/15/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-144	4/16/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-147	4/16/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY01	REDFISH LAKE	SOCKEYE SALMON	02-151	4/17/2002	-	-	-	-	-	-	-	-	-	-	INSPECTION	NO PATHOGENS DETECTED; BACTE 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-158	4/19/2002	-	-	-	-	-	-	-	-	-	-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-159	4/20/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-160	4/21/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	W.F. YANKEE FORK	CHINOOK SALMON	02-165	4/24/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY97	W.F. YANKEE FORK	CHINOOK SALMON	02-166	4/24/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/5, ELISA 0/5		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-170	4/24/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	W.F. YANKEE FORK	CHINOOK SALMON	02-171	4/25/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2		
BY98	W.F. YANKEE FORK	CHINOOK SALMON	02-174	4/25/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	W.F. YANKEE FORK	CHINOOK SALMON	02-175	4/26/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	LEMHI RIVER	CHINOOK SALMON	02-176	4/26/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-177	4/26/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2, PTD-WHD 0/2		
BY97	W.F. YANKEE FORK	CHINOOK SALMON	02-180	4/27/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-181	4/27/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-182	4/29/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		

LOCATION		Class	Sample													ExamType	Diagnoses	Page 8
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-185	4/30/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1		
BY00	REDFISH LAKE	SOCKEYE SALMON	02-186	5/1/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-188	5/2/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/3, ELISA 0/3		
BY98	REDFISH LAKE	SOCKEYE SALMON	02-196	5/6/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, FAT 0/1, ELISA 0/1		
BY98	EAST FORK SALMON RIVER	CHINOOK SALMON	02-198	5/7/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	REDFISH LAKE	SOCKEYE SALMON	02-199	5/7/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	LEMHI RIVER	CHINOOK SALMON	02-203	5/10/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-204	5/13/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	LEMHI RIVER	CHINOOK SALMON	02-208	5/16/2002	-	-	-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1		
BY98	W.F. YANKEE FORK	CHINOOK SALMON	02-209	5/17/2002	-	-	-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-220	5/27/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	LEMHI RIVER	CHINOOK SALMON	02-225	6/6/2002	-	-	-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1		
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-226	6/6/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	LEMHI RIVER	CHINOOK SALMON	02-227	6/12/2002	-	-	-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1		
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-228	6/12/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	EAST FORK SALMON RIVER	CHINOOK SALMON	02-229	6/15/2002	-	-	-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/2, PTD-WHD 0/1		
BY99	W.F. YANKEE FORK	CHINOOK SALMON	02-232	6/18/2002	-	-	-	-	-	+	+				DIAGNOSTIC	CWD, MAS; VIRO 0/1, ELISA 0/1, FLAVOBACTERIUM PSYCHROPHILUM 1/1, AEROMONAS HYDROPHILA 1/1		
BY98	LEMHI RIVER	CHINOOK SALMON	02-238	6/19/2002	-	-	-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-241	6/21/2002	-	-	-								DIAGNOSTIC	LYMPHOSARCOMA; VIRO 0/1, ELISA 0/1, HISTO - LYMPHOSARCOMA 1/1		
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-242	6/24/2002	-	-	-	-	-	-	+				DIAGNOSTIC	MAS; VIRO 0/1, ELISA 0/1, AEROMONAS HYDROPHILA 1/1		
BY98	LEMHI RIVER	CHINOOK SALMON	02-247	6/27/2002	-	-	-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1		
BY97	W.F. YANKEE FORK	CHINOOK SALMON	02-248	6/29/2002	-	-	-						-		DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1		
BY01	REDFISH LAKE	SOCKEYE SALMON	02-250	7/3/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-251	7/3/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	W.F. YANKEE FORK	CHINOOK SALMON	02-252	7/4/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		

LOCATION		Class	Sample													ExamType	Diagnoses	Page 9
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses		
BY98	EAST FORK SALMON RIVER	CHINOOK SALMON	02-253	7/5/2002	-	-	-								-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY98	W.F. YANKEE FORK	CHINOOK SALMON	02-275	7/12/2002	-	-	-								-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-280	7/18/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-282	7/24/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	LEMHI RIVER	CHINOOK SALMON	02-283	7/24/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	W.F. YANKEE FORK	CHINOOK SALMON	02-284	7/24/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY98	W.F. YANKEE FORK	CHINOOK SALMON	02-285	7/24/2002	-	-	-								-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-301	7/25/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	LEMHI RIVER	CHINOOK SALMON	02-302	7/25/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY98	EAST FORK SALMON RIVER	CHINOOK SALMON	02-303	7/25/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY98	EAST FORK SALMON RIVER	CHINOOK SALMON	02-308	7/26/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY98	EAST FORK SALMON RIVER	CHINOOK SALMON	02-309	7/26/2002	-	-	-								-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY98	LEMHI RIVER	CHINOOK SALMON	02-310	7/26/2002	-	-	-								-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY97	W.F. YANKEE FORK	CHINOOK SALMON	02-311	7/26/2002	-	-	-								+	DIAGNOSTIC	WHD; VIRO 0/1, ELISA 0/1, PTD-WHD 1/1	
BY99	LEMHI RIVER	CHINOOK SALMON	02-323	7/27/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/3, ELISA 0/3	
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-324	7/27/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	W.F. YANKEE FORK	CHINOOK SALMON	02-325	7/27/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY01	REDFISH LAKE	SOCKEYE SALMON	02-326	7/29/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-327	7/29/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2	
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-328	7/29/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	LEMHI RIVER	CHINOOK SALMON	02-329	7/29/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	W.F. YANKEE FORK	CHINOOK SALMON	02-330	7/29/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	LEMHI RIVER	CHINOOK SALMON	02-331	7/29/2009	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	W.F. YANKEE FORK	CHINOOK SALMON	02-332	7/30/2002	-	-	-									DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2	
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-334	7/30/2002	-	-	-	-	-	-	-	-	-	-	+	DIAGNOSTIC	MAS; VIRO 0/1, NAVHS 0/1, ELISA 0/1, AEROMONAS HYDROPHILA	
BY99	W.F. YANKEE FORK	CHINOOK SALMON	02-335	7/30/2002	-	-	-	-	-	-	-	-	-	-	+	DIAGNOSTIC	MAS; VIRO 0/1, ELISA 0/1, AEROMONAS HYDROPHILA 1/1	

LOCATION		Class	Sample												ExamType	Diagnoses	Page 10
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses	
BY99	W.F. YANKEE FORK	CHINOOK SALMON	02-339	8/1/2002	-	-	-	-	-	-	-	+			DIAGNOSTIC	MAS, EXTERNAL MYCOSIS; VIRO 0/1, ELISA 0/1, AEROMONAS HYDROPHILA 1/1	
BY99	LEMHI RIVER	CHINOOK SALMON	02-340	8/2/2002	-	-	-							-	DIAGNOSTIC	EXTERNAL MYCOSIS; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-345	8/7/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	W.F. YANKEE FORK	CHINOOK SALMON	02-356	8/9/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY01	REDFISH LAKE	SOCKEYE SALMON	02-364	8/14/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/4, ELISA 0/4	
BY01	REDFISH LAKE	SOCKEYE SALMON	02-365	8/16/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2	
BY01	REDFISH LAKE	SOCKEYE SALMON	02-388	8/21/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-393	8/23/2002	-	-	-							-	INSPECTION	EXTERNAL MYCOSIS; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY99	LEMHI RIVER	CHINOOK SALMON	02-397	8/24/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-398	8/27/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY00	REDFISH LAKE	SOCKEYE SALMON	02-427	9/4/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-440	9/8/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, NAVHS 0/1, ELISA 0/1	
BY00	REDFISH LAKE	SOCKEYE SALMON	02-451	9/11/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, NAVHS 0/1, ELISA 0/1	
BY01	REDFISH LAKE	SOCKEYE SALMON	02-453	9/15/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY98	LEMHI RIVER	CHINOOK SALMON	02-462	9/16/2002	-	-	+							+	INSPECTION	RS, WHD; VIRO 0/5, ELISA 1/5 (OD 0.117), PTD-WHD 3/5	
BY99	LEMHI RIVER	CHINOOK SALMON	02-463	9/16/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY98	LEMHI RIVER	CHINOOK SALMON	02-465	9/17/2002	-	-	-							+	INSPECTION	WHD; VIRO 0/1, ELISA 0/1, PTD-WHD 1/1	
BY98	LEMHI RIVER	CHINOOK SALMON	02-468	9/20/2002	-	-	-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1	
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-469	9/20/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY97	LEMHI RIVER	CHINOOK SALMON	02-471	9/23/2002	-	-	-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, NAVHS 0/1, ELISA 0/1, PTD-WHD 0/1	
BY98	LEMHI RIVER	CHINOOK SALMON	02-472	9/23/2002	-	-	-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2, PTD-WHD 0/2	
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-473	9/23/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	LEMHI RIVER	CHINOOK SALMON	02-480	9/24/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY97	LEMHI RIVER	CHINOOK SALMON	02-484	9/26/2002	-	-	-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/3, ELISA 0/3, PTD-WHD 0/3	
BY98	LEMHI RIVER	CHINOOK SALMON	02-486	9/26/2002	-	-	-							+	INSPECTION	WHD; VIRO 0/13, ELISA 0/13, PTD-WHD 2/13	

LOCATION		Class	Sample													ExamType	Diagnoses	Page 11
BroodY	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses		
BY00	REDFISH LAKE	SOCKEYE SALMON	02-487	9/29/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-488	9/29/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	EAST FORK SALMON RIVER	CHINOOK SALMON	02-489	9/30/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, ELISA 0/10		
BY00	W.F. YANKEE FORK	CHINOOK SALMON	02-490	9/30/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, ELISA 0/10		
BY99	LEMHI RIVER	CHINOOK SALMON	02-491	9/30/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	LEMHI RIVER	CHINOOK SALMON	02-494	10/1/2002	-	-	-						-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/3, ELISA 0/3, PTD-WHD 0/3		
BY01	REDFISH LAKE	SOCKEYE SALMON	02-497	10/4/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	LEMHI RIVER	CHINOOK SALMON	02-498	10/4/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2		
BY98	LEMHI RIVER	CHINOOK SALMON	02-500	10/4/2002	-	-	-						-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, ELISA 0/10, PTD-WHD 0/10		
BY99	LEMHI RIVER	CHINOOK SALMON	02-501	10/6/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	LEMHI RIVER	CHINOOK SALMON	02-502	10/6/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-503	10/6/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	LEMHI RIVER	CHINOOK SALMON	02-518	10/8/2002	-	-	-						-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/3, ELISA 0/3, PTD-WHD 0/3		
BY97	LEMHI RIVER	CHINOOK SALMON	02-519	10/8/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1		
BY99	LEMHI RIVER	CHINOOK SALMON	02-520	10/8/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	LEMHI RIVER	CHINOOK SALMON	02-525	10/9/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	REDFISH LAKE	SOCKEYE SPAWNER	02-528	10/10/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/6, FAT 0/6, ELISA 0/6		
BY98	LEMHI RIVER	CHINOOK SALMON	02-531	10/11/2002	-	-	-	-					-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/4, NAVHS 0/4, ELISA 0/4, PTD-WHD 0/4		
BY99	LEMHI RIVER	CHINOOK SALMON	02-532	10/11/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	LEMHI RIVER	CHINOOK SALMON	02-534	10/12/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY98	REDFISH LAKE	SOCKEYE SALMON	02-535	10/12/2002	-	-	-								DIAGNOSTIC	MYCOSIS; VIRO 0/1, ELISA 0/1		
BY99	LEMHI RIVER	CHINOOK SALMON	02-537	10/15/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY97	LEMHI RIVER	CHINOOK SALMON	02-538	10/16/2002	-	-	-						+		INSPECTION	WHD; VIRO 0/2, ELISA 0/2, PTD-WHD 1/2		
BY98	LEMHI RIVER	CHINOOK SALMON	02-539	10/16/2002	-	-	-						-		INSPECTION	NO PATHOGENS DETECTED; VIRO 0/5, ELISA 0/5, PTD-WHD 0/5		
BY99	LEMHI RIVER	CHINOOK SALMON	02-540	10/16/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2		
BY99	LEMHI RIVER	CHINOOK SALMON	02-541	10/16/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/23, ELISA 0/20		

LOCATION		Class	Sample													ExamType	Diagnoses
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses	
BY01	REDFISH LAKE	SOCKEYE SALMON	02-542	10/16/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY00	REDFISH LAKE	SOCKEYE SALMON	02-543	10/17/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/4, ELISA 0/4	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-544	10/17/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/13, NAVHS 0/5, ELISA 0/13	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-545	10/21/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/8, ELISA 0/8	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-548	10/22/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, ELISA 0/10	
BY98	REDFISH LAKE	SOCKEYE SALMON	02-549	10/22/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-550	10/23/2002	-	-	-						-		RESEARCH	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1, PCR-PARVICAPSULA 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-551	10/23/2002	-	-	+								INSPECTION	RS; VIRO 0/6, ELISA 1/6 (OD 0.107)	
BY00	REDFISH LAKE	SOCKEYE SALMON	02-552	10/23/2002	-	-	+								INSPECTION	RS; VIRO 0/8, ELISA 1/8 (OD 0.109)	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-553	10/24/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/13, ELISA 0/13	
BY98	REDFISH LAKE	SOCKEYE SALMON	02-555	10/24/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-556	10/25/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/4, ELISA 0/4	
BY00	REDFISH LAKE	SOCKEYE SALMON	02-557	10/25/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/5, ELISA 0/5	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-558	10/25/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-559	10/27/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/3, ELISA 0/3	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-560	10/28/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2	
BY98	REDFISH LAKE	SOCKEYE SALMON	02-565	10/29/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-566	10/29/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/7, ELISA 0/7	
BY00	REDFISH LAKE	SOCKEYE SALMON	02-567	10/29/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/7, ELISA 0/7	
BY98	REDFISH LAKE	SOCKEYE SALMON	02-568	10/30/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY98	REDFISH LAKE	SOCKEYE SALMON	02-569	10/31/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/3, ELISA 0/3	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-570	10/31/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-572	11/1/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	EAST FORK SALMON RIVER	CHINOOK SALMON	02-573	11/1/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	
BY99	REDFISH LAKE	SOCKEYE SALMON	02-574	11/2/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2	
BY98	REDFISH LAKE	SOCKEYE SALMON	02-575	11/2/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1	

LOCATION		Class	Sample													ExamType	Diagnoses	Page 13
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-576	11/3/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-577	11/4/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/6, ELISA 0/6		
BY00	REDFISH LAKE	SOCKEYE SALMON	02-578	11/4/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-579	11/5/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/65, ELISA 0/65		
BY00	REDFISH LAKE	SOCKEYE SALMON	02-580	11/5/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/12, ELISA 0/12		
BY98	REDFISH LAKE	SOCKEYE SALMON	02-581	11/5/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-582	11/4/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	REDFISH LAKE	SOCKEYE SALMON	02-585	11/7/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/9, ELISA 0/9		
BY00	REDFISH LAKE	SOCKEYE SALMON	02-586	11/7/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, ELISA 0/2		
BY00	REDFISH LAKE	SOCKEYE SALMON	02-589	11/13/2002	-	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, NAVHS 0/1, ELISA 0/1		
BY01	REDFISH LAKE	SOCKEYE SALMON	02-598	11/18/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY00	REDFISH LAKE	SOCKEYE SALMON	02-622	12/5/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/3, ELISA 0/3		
BY00	REDFISH LAKE	SOCKEYE SALMON	02-642	12/14/2002	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
BY99	REDFISH LAKE	SOCKEYE SALMON	03-482	11/10/2003	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1		
EAGLE WET LAB		D																
2001	TROUTLODGE	RAINBOW/KAMLOOPS TRIPLOIDS	02-047E	2/11/2002											RESEARCH	TRIPLOID INDUCTION 38/38 (100%)		
2001	HAYSPUR	RAINBOW TROUT	02-155	4/18/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/1		
2002	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-447	9/10/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/15		
EPICENTER AQUACULTURE		D																
2002	HYBRID	TILAPIA	02-599	11/19/2002	-	-	-	-	-	-	-	+	-	-	CERTIFICATIO	BACTEREMIA; VIRO 0/60, FAT 0/60, PLEISIOMONAS SHIGELLOIDES 3/60, AEROMONAS SPP. 1/60, PTD-WHD 0/60, CSH 0/60		
GRACE HATCHERY		A																
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-014	1/9/2002					-	-	+	-			DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 4/4		
2002	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-043	2/15/2002					-	-	-	+			DIAGNOSTIC	MAS; AEROMONAS HYDROPHILA 3/4, SHEWANELLA PUTREFACIENS 2/4, SPHINGOMONAS PAUCIMOBILIS 2/4		
2002	WESTSLOPE TROUT COMPANY	WESTSLOPE CUTTHROAT TROUT	02-454	9/13/2002					-	-	+	-			DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 4/4		
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-455	9/13/2002	-	-			-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/4, FLAVOBACTERIUM PSYCHROPHILUM ¼		

LOCATION		Class	Sample												Page 14	
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-593	11/13/2002	-	-	-	-	-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/9, NAVHS 0/9, FLAVOBACTERIUM PSYCHROPHILUM
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-621	12/3/2002					-	-	+	-			DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 4/4
HAGERMAN NFH		C														
200	CLEARWATER RIVER	STEELHEAD, B GROUP	02-115	4/4/2002											DIAGNOSTIC	NUCLE; NUCLEOSPORA 3/5 (PCR)
HAGERMAN SFH		C														
2001	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-002	1/4/2002	-	-			-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/5, AEROMONAS HYDROPHILA 1/4, FLAVOBACTERIUM PSYCHROPHILUM 2/4
2001	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-003	1/4/2002	-	-			-	-	+	+			DIAGNOSTIC	CWD, MAS, BGD; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS CAVIAE 4/4
2001	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	02-004	1/4/2002	-	-	-		-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/5, NAVHS 0/5, FLAVOBACTERIUM PSYCHROPHILUM
2001	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	02-005	1/4/2002	+	-	-		-	-	-	+			DIAGNOSTIC	COL, MAS, IHN; IHN 1/1(x5), IPNV 0/5, NAVHS 0/5, AEROMONAS CAVIAE 4/4, (VISUAL: FLAVOBACTERIUM COLUMNARE ON GILLS)
2001	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-012	1/9/2002					-	-	+	+			DIAGNOSTIC	CWD, MAS; FLAVOBACTERIUM PSYCHROPHILUM 2/4, PSEUDOMONAS SPP. 1/4
2001	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	02-013	1/9/2002	+	-			-	-	+	-			DIAGNOSTIC	CWD, IHN; IHN 1/1(X5), IPNV 0/5, FLAVOBACTERIUM PSYCHROPHILUM 3/4
2001	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	02-039	1/28/2002	+	-			-	-	+	-			DIAGNOSTIC	IHN, CWD; IHN 2/2(X3), IPNV 0/6, FLAVOBACTERIUM PSYCHROPHILUM 2/6
2001	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	02-040	1/28/2002	+	-			+	-	+	+			DIAGNOSTIC	IHN, FUR, CWD, MAS; IHN 1/2(4), IPNV 0/7, AEROMONAS SALMONICIDA 1/7, FLAVOBACTERIUM PSYCHROPHILUM 7/7, AEROMONAS HYDROPHILA 4/7
2001	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-042	2/12/2002	-	-			-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/4, FLAVOBACTERIUM PSYCHROPHILUM 2/4
2001	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-045	2/21/2002	+	-			-	-	+	-			DIAGNOSTIC	IHN, CWD, BGD; IHN 1/1(X4), IPNV 0/4, FLAVOBACTERIUM PSYCHROPHILUM 1/4, AEROMONAS HYDROPHILA 1/2 (gills), PSEUDOMONAS PICKETTII 1/2 (gills)
2001	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-046	2/21/2002	+	-			+	-	-	+			DIAGNOSTIC	IHN, FUR, MAS; IHN 1/1(X4), IPNV 0/4, AEROMONAS SALMONICIDA 1/4, AEROMONAS HYDROPHILA 1/4
2002	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-060	2/27/2002	-	-			-	-	+	+			DIAGNOSTIC	MAS, CWD; VIRO 0/5, AEROMONAS HYDROPHILA 1/4, PLESIOMONAS SHIGELLOIDES 1/4, FLAVOBACTERIUM
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-061	2/27/2002	-	-			-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS CAVIAE 1/4
2001	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-062	2/27/2002	-	-			-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4
2001	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-063	2/27/2002											DIAGNOSTIC	COL; FLAVOBACTERIUM COLUMNARE (PRESUMPTIVE) 6/8

LOCATION		Class	Sample													Page 15
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-075	3/13/2002					-	-	+	+			DIAGNOSTIC	CWD, MAS, BGD, COS; FLAVOBACTERIUM PSYCHROPHILUM 3/6, AEROMONAS CAVIAE 2/2 (gills) 2/6 (systemic), PSEUDOMONAS SPP. 2/2 (gills)2/6 (systemic), ICHTHYOBODO 1/3 (gills, heavy)
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-076	3/13/2002	-	-			-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/4, FLAVOBACTERIUM PSYCHROPHILUM 3/4, AEROMONAS CAVIAE 1/4
2001	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-077	3/13/2002	-	-			-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/4, FLAVOBACTERIUM PSYCHROPHILUM 3/4
2001	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-078	3/13/2002	-	-			-	-	+				DIAGNOSTIC	CWD, BGD, COL*: VIRO 0/4, FLAVOBACTERIUM PSYCHROPHILUM 2/4, FLAVOBACTERIUM COLUMNNARE 3*13 (gills), AEROMONAS HYDROPHILA 1/3(gills), PSEUDOMONAS SPP. 2/3(gills)
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-079	3/13/2002											DIAGNOSTIC	COS; ICHTYOBODO (COSTIA) 3/3 ON GILLS
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-116	4/4/2002	+	-			-	-	+	+			DIAGNOSTIC	IHNV, CWD, MAS; IHNV 2/2(x4), IPNV 0/8, FLAVOBACTERIUM PSYCHROPHILUM 7/8, AEROMONAS HYDROPHILA 6/8
2000	MOSES LAKE	TIGER MUSKIE	02-190	5/1/2002	-	-			+	-	-	+			DIAGNOSTIC	FUR, MAS; VIRO 0/8, AEROMONAS SALMONICIDA 8/8, AEROMONAS SOBRIA 5/8
2002	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-233	6/18/2002	-	-		-	-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 5/5, AEROMONAS HYDROPHILA 3/5
2002	PAHSIMEROI	STEELHEAD, A GROUP	02-234	6/18/2002	-	-			-	-	-	-			DIAGNOSTIC	COL; VIRO 0/5, FLAVOBACTERIUM COLUMNNARE 4/5
2001	TROUTLODGE	KAMLOOPS RBT-TRIPLOID	02-235	6/18/2002	-	-			-	-	+	-			DIAGNOSTIC	CWD; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 3/5
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-245	6/26/2002	-	-			-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 3/4, AEROMONAS HYDROPHILA 1/4
2002	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-246	6/26/2002	-	-			-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS HYDROPHILA 3/4, FLAVOBACTERIUM COLUMNNARE
2002	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	02-254	7/9/2002	-	-			-	-	-	-			DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/5, BACTE 0/4
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-255	7/9/2002	-	-			-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 3/4, AEROMONAS HYDROPHILA 3/4
2002	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-256	7/9/2002	-	-			-	-	+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS HYDROPHILA 2/4
2001	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-257	7/9/2002					+	-	-	+			DIAGNOSTIC	FUR, MAS; AEROMONAS SALMONICIDA 5/6, AEROMONAS HYDROPHILA 1/6, PKX 0/6
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-258	7/9/2002											INSPECTION	PKX; PKX-SMEAR 0/1, PKX-PCR 2/16
2002	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	02-336	7/31/2002					-	-	+	+			DIAGNOSTIC	CWD, MAS; FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS SOBRIA 2/4
2002	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	02-337	7/31/2002					-	-	-	+			DIAGNOSTIC	MAS; AEROMONAS CAVIAE 3/4

LOCATION		Class	Sample												ExamType	Diagnoses	Page 16	
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH				
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-338	7/31/2002					-	-	+	+					DIAGNOSTIC	CWD, BACTEREMIA; FLAVOBACTERIUM PSYCHROPHILUM 2/4, HAFNIA ALVEI 4/4, AGROBACTER/PSEUDOMONAS SP. 2/4
2002	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-432	9/6/2002	-	-			-	-	+	-					DIAGNOSTIC	CWD; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-529	10/10/2002	-	-			-	-	+	+					DIAGNOSTIC	MAS, CWD; VIRO 0/5, AEROMONAS HYDROPHILA 4/4, FLAVOBACTERIUM PSYCHROPHILUM 3/4
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-530	10/10/2002	-	-			-	-	+	+					DIAGNOSTIC	CWD, MAS; VIRO 0/5, AEROMONAS HYDROPHILA 3/4, FLAVOBACTERIUM PSYCHROPHILUM 2/4
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-564	10/27/2002	-	-			-	-	+	-					DIAGNOSTIC	CWD; VIRO 0/4, FLAVOBACTERIUM PSYCHROPHILUM 3/4
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-590	11/13/2002	+	-			-	-	+	+					DIAGNOSTIC	IHN, CWD, MAS; IHNV 1/1(X5), IPNV 0/5, FLAVOBACTERIUM PSYCHROPHILUM 2/5, AEROMONAS CAVIAE 1/5
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-591	11/13/2002	+	-			-	-	+	-					DIAGNOSTIC	IHN, CWD; IHNV 1/1(X5) IPNV 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-592	11/13/2002	+	-			-	-	+	-					DIAGNOSTIC	IHN, CWD; IHNV 1/1(X5), IPNV 0/5, FLAVOBACTERIUM PSYCHROPHILUM 3/4
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-644	12/16/2002	+	-			-	-	+	-					DIAGNOSTIC	IHN, CWD; IHNV 2/2(X5), IPNV 0/10, FLAVOBACTERIUM PSYCHROPHILUM 7/8
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-645	12/16/2002	+	-			-	-	+	-					DIAGNOSTIC	IHNV, CWD; IHNV 1/1(4), IPNV 0/4, FLAVOBACTERIUM PSYCHROPHILUM 3/4
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-646	12/16/2002	+	-			-	-	+	-					DIAGNOSTIC	IHNV, CWD; IHNV 1/1(X4), IPNV 0/4, FLAVOBACTERIUM PSYCHROPHILUM 4/4
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	02-647	12/16/2002	-	-			-	-	-	-					DIAGNOSTIC	BACTEREMIA; VIRO 0/4, SPHINGOMONAS PAUCIMOBILIS 1/4
HAYSPUR HATCHERY		C																
2000	HAYSPUR	RAINBOW TROUT	02-016	1/10/2002							+						RESEARCH	CWD; FLAVOBACTERIUM PSYCHROPHILUM 3/5 (USED FOR AUTOGENOUS VACCINE PRODUCTION)
2001	HAYSPUR	RAINBOW/KAMLOOPS TRIPLOIDS	02-047A	2/11/2002													RESEARCH	TRIPLOID INDUCTION 40/40 (100%)
2001	HAYSPUR	RAINBOW/KAMLOOPS TRIPLOIDS	02-047B	2/12/2002													RESEARCH	TRIPLOID INDUCTION 38/40 (95% PLUS 1 MOSAIC)
2001	HAYSPUR	RAINBOW/KAMLOOPS TRIPLOIDS	02-047C	2/12/2002													RESEARCH	TRIPLOID INDUCTION 37/39 (95%)
2001	HAYSPUR	RAINBOW/KAMLOOPS TRIPLOIDS	02-047D	2/11/2002													RESEARCH	TRIPLOID INDUCTION 36/38 (95%)
2000	CONNOR LAKE (CANADA)	WESTSLOPE CUTTHROAT TROUT	02-055	2/26/2002	-	-			-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/74, OCP-FAT 0/74

LOCATION		Class	Sample												ExamType	Diagnoses	Page 17
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH			
2000	CONNOR LAKE (CANADA)	WESTSLOPE CUTTHROAT TROUT	02-067	3/6/2002				-								INSPECTION	NO PATHOGENS DETECTED; FAT 0/10, ELISA 0/10
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-069A	4/22/2002												RESEARCH	TRIPLOID INDUCTION 39/40 (97.5%)
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-069B	4/22/2002												RESEARCH	TRIPLOID INDUCTION 39/40 (97.5%)
2002	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-069C	4/22/2002												RESEARCH	TRIPLOID INDUCTION 35/40 (87.5%)
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-069D	7/8/2002												RESEARCH	TRIPLOID INDUCTION 39/40 (97.5%)
2002	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-069E	7/8/2002												RESEARCH	TRIPLOID INDUCTION 29/38 (76.3%)
2000	CONNOR LAKE (CANADA)	WESTSLOPE CUTTHROAT TROUT	02-072	3/12/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/111, NAVHS 0/25, OCP-FAT
2000	CONNOR LAKE (CANADA)	WESTSLOPE CUTTHROAT TROUT	02-101	3/26/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/118, NAVHS 0/15, OCP-FAT
2000	CONNOR LAKE (CANADA)	WESTSLOPE CUTTHROAT TROUT	02-130	4/9/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/128, NAVHS 0/25, OCP-FAT
2000	CONNOR LAKE (CANADA)	WESTSLOPE CUTTHROAT TROUT	02-167	4/23/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/88, OCP-FAT 0/88
2000	HAYSPUR	RAINBOW TROUT	02-240	6/20/2002	-	-	-	-	-	-	+	+	-			INSPECTION	CWD, MAS; VIRO 0/60, FAT 0/60, ELISA 0/60, FLAVOBACTERIUM PSYCHROPHILUM 3/15, AEROMONAS HYDROPHILA 2/15, PTD-WHD 0/60
2000	HAYSPUR	KAMLOOPS RBT	02-243	6/25/2002	-	-	-	-	-	-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, ELISA 0/60, BACTE 0/15, PTD-WHD 0/60
1998	HAYSPUR	RAINBOW TROUT	02-244	6/25/2002					-	-	-	+				DIAGNOSTIC	MAS; AEROMONAS HYDROPHILA 1/1
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-274A	7/8/2002												RESEARCH	TRIPLOID INDUCTION 38/40 (95%)
2002	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-274B	7/8/2002												RESEARCH	TRIPLOID INDUCTION 40/40 (100%)
2002	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-274C	7/8/2002												RESEARCH	TRIPLOID INDUCTION 38/40 (95%)
2002	CONNOR LAKE (CANADA)	WESTSLOPE CUTTHROAT TROUT	02-412	8/29/2002							+					DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 1/2
BROOD	HAYSPUR	KAMLOOPS RBT	02-526	10/9/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/34 OCP-FAT 0/34
2000	HAYSPUR	RAINBOW TROUT	02-527	10/9/2002					-	-	+	-				DIAGNOSTIC	GYROS, SECONDARY FLAVOBACTERIOSIS; FLAVOBACTERIUM PSYCHROPHILUM 2/2, GYRODACTYLLUS 2/2
BROOD	HAYSPUR	KAMLOOPS RBT	02-554	10/24/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/50, NAVHS 0/5, OCP-FAT 0/50
BROOD	HAYSPUR	RAINBOW TROUT	02-571	10/31/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/43, NAVHS 0/9, OCP-FAT 0/43

LOCATION		Class	Sample													ExamType	Diagnoses	Page 18
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH				
BROOD	HAYSPUR	KAMLOOPS RBT	02-587	11/7/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/50, NAVHS 0/5, OCP-FAT 0/50	
BROOD	HAYSPUR	RAINBOW TROUT	02-596	11/14/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/50, NAVHS 0/5, OCP-FAT 0/50	
BROOD	HAYSPUR	KAMLOOPS RBT	02-616	11/25/2002	-	-	-	-								DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/20, NAVHS 0/2, OCP-FAT 0/20	
BROOD	HAYSPUR	RAINBOW TROUT	02-617	11/25/2002	-	-	-	-	-	-	-	-				INSPECTION	NO PATHOGENS DETECTED; VIRO 0/50, NAVHS 0/5, OCP-FAT 0/50, BACTE 0/12	
BROOD	HAYSPUR	RAINBOW TROUT	02-641	12/12/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/30, NAVHS 0/3, OCP-FAT 0/30	
BROOD	HAYSPUR	RAINBOW TROUT	02-662	12/30/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, OCP-FAT 0/20	
HENRYS LAKE		C																
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-073	3/7/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, OCP-FAT 0/105	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-074	3/11/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, OCP-FAT 0/105	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-092	3/14/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, NAVHS 0/7, OCP-FAT 0/105	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-093	3/18/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, OCP-FAT 0/105	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-102	3/25/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/7, OCP-FAT 0/77	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-103	3/21/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, OCP-FAT 0/105	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-108	3/28/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/7, OCP-FAT 0/105	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-109	3/30/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/7, OCP-FAT 0/70	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-110	4/1/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/7, OCP-FAT 0/105	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-111	4/2/2002	-	-		-	-	-	-	-		+		INSPECTION	BACTEREMIA, WHD; VIRO 0/60, FAT 0/60, FLAVOBACTER INDOLOGENES 5/10, PTD-WHD 9/12	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-131	4/4/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, NAVHS 0/14, OCP-FAT	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-132	4/8/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, NAVHS 0/14, OCP-FAT	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-152	4/11/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, NAVHS 0/7, OCP-FAT 0/105	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-169	4/18/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, OCP-FAT 0/136	
BROOD	HENRYS LAKE	CUTTHROAT TROUT	02-187	4/25/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, OCP-FAT 0/84	
BROOD	HENRYS LAKE	BROOK TROUT	02-561	10/22/2002				-								INSPECTION	NO PATHOGENS DETECTED; OCP-FAT 0/35	
BROOD	HENRYS LAKE	BROOK TROUT	02-562	10/24/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/12, OPC-FAT 0/48	
BROOD	HENRYS LAKE	BROOK TROUT	02-563	10/18/2002	-	-		-	+	-	+	+	-			INSPECTION	FUR, CWD, MAS; VIRO 0/30, FAT 0/30, ELISA 0/30, FLAVOBACTERIUM PSYCHROPHILUM 6/16, PSEUDOMONAS FLUORENSCENS 6/16, AEROMONAS SALMONICIDA 1/16, PTD-WHD	

LOCATION		Class	Sample													Page 19	
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses	
BROOD	HENRYS LAKE	BROOK TROUT	02-583	10/31/2002	-	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/12, NAVHS 0/6, OCP-FAT 0/72	
BROOD	HENRYS LAKE	BROOK TROUT	02-584	11/4/2002	-	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/14, OCP-FAT 0/49	
MACKAY HATCHERY		B															
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-456	9/16/2002											-	RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/50
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-457	9/16/2002											-	RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/47
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-458	9/16/2002											-	RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/41
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-459	9/16/2002											+	RESEARCH	WHD; PTD-WHD 7/7(X5), PCR-WHD 1/1(X5)
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-460	9/16/2002											+	RESEARCH	WHD; PTD-WHD 2/9(X5)
2002	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-461	9/16/2002											+	RESEARCH	WHD; PTD-WHD 9/9(X5), PCR-WHD 1/1(5)
MAGIC VALLEY HATCHERY		C															
2001	DWORSHAK	STEELHEAD, B GROUP	02-036	1/16/2002	-	-			-	-	+	+			INSPECTION	CWD, MAS; VIRO 0/10, FLAVOBACTERIUM PSYCHROPHILUM 7/8, PSEUDOMONAS SP. 7/8	
2001	PAHSIMEROI	STEELHEAD, A GROUP	02-037	1/16/2002	-	-			-	-	+	-			INSPECTION	CWD; VIRO 0/10, FLAVOBACTERIUM PSYCHROPHILUM 6/8	
2001	HAYSPUR	KAMLOOPS RBT-TRIPLOID	02-038	1/28/2002					-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; BACTE 0/4	
2001	PAHSIMEROI	STEELHEAD, A GROUP	02-095	3/21/2002	-	-									-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD-WHD 0/20
2001	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	02-096	3/21/2002	-	-									-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD-WHD 0/20
2001	SAWTOOTH	STEELHEAD, A GROUP	02-097	3/21/2002	-	-									-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD-WHD 0/20
2001	DWORSHAK	STEELHEAD, B GROUP	02-098	3/21/2002	-	-									-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD-WHD 0/20
2002	DWORSHAK	STEELHEAD, B GROUP	02-221	5/29/2002	+	-	-		-	-	-	-			DIAGNOSTIC	IHN, BACTEREMIA; IHNV 2/2(X5), IPNV 0/10, NAVHS 0/5, SPHINGOMONAS PAUCIMOBILIS 2/10	
2002	SAWTOOTH	STEELHEAD, A GROUP	02-278	7/16/2002	-	-			-	-	-	+			INSPECTION	MAS; VIRO 0/10, AEROMONAS HYDROPHILA 8/10	
2002	DWORSHAK	STEELHEAD, B GROUP	02-279	7/16/2002	-	-			-	-	-	+			INSPECTION	MAS; VIRO 0/10, PSEUDOMONAS SPP. 2/10	
2002	DWORSHAK	STEELHEAD, B GROUP	02-476	9/23/2002	-	-			-	-	+	+			INSPECTION	CWD, MAS; VIRO 0/10, FLAVOBACTERIUM PSYCHROPHILUM 10/10, AEROMONAS HYDROPHILA 10/10	
2002	SAWTOOTH	STEELHEAD, A GROUP	02-533	10/11/2002	+	-			-	-	+	-			DIAGNOSTIC	IHN, CWD; IHNV 2/2, IPN 0/2, FLAVOBACTERIUM PSYCHROPHILUM 8/10	
MCCALL HATCHERY		C															
2000	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-056	2/25/2002	-	-			-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/8	

LOCATION		Class	Sample													Page 20	
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses	
2000	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-065	3/5/2002	-	-	-								INSPECTION	NO PATHOGENS: VIRO 0/20, FAT0/20, ELISA 0/20, PTD-WHD0/20	
2000	JOHNSON CREEK DETECTED, VIRO/20, FAT0/20, ELISA0/20, PTD	SUMMER CHINOOK SALMON	02-066	3/5/2002	-	-	-								INSPECTION	NO PATHOGENS WHD0/20	
2001	S.F. SALMON RIVER	SUMMER CHINOOK SALMON 02-197		5/6/2002	-	-	-	-							DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/14, NAVHS 0/14, FAT 0/12	
2000	S.F. SALMON RIVER	SUMMER CHINOOK SALMON 02-065		3/5/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, ELISA 0/20, PTD-WHD 0/20	
2000	JOHNSON CREEK	SUMMER CHINOOK SALMON 02-066		3/5/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, ELISA 0/20, PTD-WHD 0/20	
2001	S.F. SALMON RIVER	SUMMER CHINOOK SALMON 02-211		5/17/2002	-	-	-	-	-	-	-	-			DIAGNOSTIC	MYCOSIS (PHOMA); VIRO 0/10, FAT 0/10, PHOMA SPP. 4/8	
2001	S.F. SALMON RIVER	SUMMER CHINOOK SALMON 02-546		10/21/2002	-	-	-	-	-	-	-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/11, BACTE 0/10	
NAMPA HATCHERY		A															
2001	TROUTLODGE	RAINBOW TROUT	02-041	2/4/2002	-	-					+	+			DIAGNOSTIC	CWD, MAS; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 4/4, AEROMONAS HYDROPHILA 1/4	
2001	HAYSPUR	RAINBOW TROUT-TRIPLOID	02-099	3/22/2002							+	-			DIAGNOSTIC	CWD; FLAVOBACTERIUM PSYCHROPHILUM 5/7	
2002	TROUTLODGE	RAINBOW TROUT-TRIPLOID	03-029	1/21/2002							+	+			DIAGNOSTIC	CWD, MAS; PSEUDOMONAS VESICULARIS 7/8, FLAVOBACTERIUM PSYCHROPHILUM 3/8, AEROMONAS HYDROPHILA 1/8	
NAMPA RESEARCH		D															
WILD	REDFISH LAKE	BULL TROUT	02-643	5/27/2001											DIAGNOSTIC	NO PATHOGENS DETECTED; PTD-WHD 0/1	
NIAGARA SPRINGS HATCHERY		C															
2001	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	02-034	1/16/2002	-	-					-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/5, BACTE 0/4	
2001	PAHSIMEROI	STEELHEAD, A GROUP	02-035	1/16/2002	-	-					+	+			INSPECTION	CWD, MAS; VIRO 0/5, FLAVOBACTERIUM PSYCHROPHILUM 2/4, AEROMONAS HYDROPHILA 1/4	
2001	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	02-104	3/27/2002	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD-WHD 0/20	
2001	PAHSIMEROI	STEELHEAD, A GROUP	02-105	3/27/2002	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, PTD-WHD 0/20	
2002	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	02-474	9/23/2002	-	-					+	-			INSPECTION	CWD; VIRO 0/10, FLAVOBACTERIUM PSYCHROPHILUM 1/10	
2002	PAHSIMEROI	STEELHEAD, A GROUP	02-475	9/23/2002	-	-					-	-			INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, BACTE 0/10	
NMFS, PASCO, WA																	
2001	M.F. SALMON RVR; BEAR VALLEY	CHINOOK SALMON	02-624	7/25/2002											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/1	
2001	M.F. SALMON RVR; ELK CR	CHINOOK SALMON	02-625	7/26/2002											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/11	

LOCATION		Class	Sample													Diagnoses	Page 21
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses	
2001	M.F.SALMON RVR;MARSH CR	CHINOOK SALMON	02-626	7/30/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/3	
2001	M.F.SALMON RVR;SULPHUR CR	CHINOOK SALMON	02-627	7/31/2002				-						-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/3	
2001	M.F.SALMON RVR;CAPE HORN	CHINOOK SALMON	02-628	7/31/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/13	
2001	UPPER SALMON RVR;VALLEY CR	CHINOOK SALMON	02-629	8/2/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/32	
2001	M.F.SALMON RVR;LOON CR	CHINOOK SALMON	02-630	8/8/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/12	
2001	M.F.SALMON RVR;CAMAS CR	CHINOOK SALMON	02-631	8/9/2002										+	WILD FISH	WHD; PTD-MXYOBOLUS SPP. 1/5(X4), PCR-WHD 1/1(x4)	
2001	E.F.SALMON RVR;HERD CR	CHINOOK SALMON	02-632	8/12/2002										-	WILD FISH	NO PATHOGENS DETECTED; WHD 0/21	
2001	M.F.SALMON RVR;UPPER BIG CR	CHINOOK SALMON	02-633	8/15/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/7	
2001	M.F.SALMON RVR;LOWER BIG CR	CHINOOK SALMON	02-634	8/21/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/8	
2001	S.F. SALMON RIVER	CHINOOK SALMON	02-635	8/26/2002										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/22	
2001	S.F.SALMON RVR;LAKE CREEK	CHINOOK SALMON	02-637											-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/29	

OXBOW HATCHERY

		C														Diagnoses
2001	LYONS FERRY (SNAKE RIVER)	FALL CHINOOK SALMON	02-064	2/28/2002	-	-	-	-	-	-	-	-	-	-	DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/26, FAT 0/12, BACTE 0/8
BROOD	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	02-156	4/18/2002	-	-								-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/35, PTD-WHD 0/20
2001	LYONS FERRY (SNAKE RIVER)	FALL CHINOOK SALMON	02-157	4/18/2002	-	-	-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, PTD-WHD 0/10
2001	LYONS FERRY (SNAKE RIVER)	FALL CHINOOK SALMON	02-161	4/22/2002	-	-	+							-	INSPECTION	RS: VIRO 0/60, FAT 0/60, ELISA 1/12(X5, O.D = 0.110), PTD-WHD 0/60, CSH 0/60
2001	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	02-162	4/22/2002	-	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/15, NAVHS 0/6, FAT 0/12
BROOD	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	02-173	4/25/2002	-	-	-	-							INSPECTION	NO PATHOGENS DETECTED; VIRO 0/30, FAT 0/33
BROOD	HELLS CANYON (SNAKE RIVER)	STEELHEAD, A GROUP	02-183	4/29/2002	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/12, FAT 0/12

LOCATION		Class	Sample												Page 22		
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	ExamType	Diagnoses	
PAHSIMEROI HATCHERY		C															
2000	PAHSIMEROI	SUMMER CHINOOK SALMON	02-087	3/18/2002	-	-	-	+							+	INSPECTION	RS, WHD; VIRO 0/20, NAVHS 0/10, FAT 0/20, ELISA 3/4(X5, LOW 3), PTD-WHD 2/20
2001	PAHSIMEROI	SUMMER CHINOOK SALMON	02-088	3/18/2002											-	INSPECTION	NO PATHOGENS DETECTED; PTD-WHD 0/10
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	02-112	4/1/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/24, NAVHS 0/4
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	02-113	4/2/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60, NAVHS 0/6
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	02-139	4/4/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/24, NAVHS, 0/4
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	02-140	4/9/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/30, NAVHS 0/6
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	02-172	4/18/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/24, NAVHS 0/4
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	02-189	4/29/2002	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/24
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	02-205	5/7/2002				-							-	INSPECTION	NO PATHOGENS DETECTED; FAT 0/36, PTD-WHD 0/19
2001	PAHSIMEROI	SUMMER CHINOOK SALMON	02-206	5/14/2002	-	-		-	-	-	-	-				DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/8
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	02-219A	4/12/2002				-								INSPECTION	NO PATHOGENS DETECTED; FAT 0/6
BROOD	PAHSIMEROI	STEELHEAD, A GROUP	02-219B	4/18/2002				-								INSPECTION	NO PATHOGENS DETECTED; FAT 0/12
2001	PAHSIMEROI	SUMMER CHINOOK SALMON	02-224	6/5/2002											-	INSPECTION	GAS BUBBLE TRAUMA; PTD-WHD 0/59
BROOD	PAHSIMEROI	SPRING CHINOOK SALMON	02-428	9/3/2002				+								INSPECTION	BKD; ELISA 4/17 (LOW 3, HIGH 1)
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	02-442	9/9/2002	-	-	-	+							+	INSPECTION	RS, WHD; VIRO 0/21, NAVHS 0/2, ELISA 8/27 (LOW 8), PTD-WHD
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	02-452	9/12/2002				+								INSPECTION	BKD; ELISA 18/47 (LOW 17, HIGH 1)
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	02-464	9/16/2002	-	-	-	+								INSPECTION	BKD; VIRO 0/51, NAVHS 0/6, ELISA 24/57 (LOW 19, HIGH 5)
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	02-470	9/20/2002				+								INSPECTION	BKD; ELISA 3/51(HIGH 3)
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	02-485	9/23/2002				+								INSPECTION	BKD; ELISA 2/32 (LOW 1 HIGH 1)
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	02-492	9/27/2002				+								INSPECTION	BKD; ELISA 5/25 (LOW 3, HIGH 2)

LOCATION		Class	Sample													ExamType	Diagnoses	Page 23
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH				
BROOD	PAHSIMEROI	SUMMER CHINOOK SALMON	02-493	9/30/2002				+								INSPECTION	BKD; ELISA 1/7 (HIGH 1)	
2001	PAHSIMEROI	SUMMER CHINOOK SALMON	02-536	10/14/2002	-	-		-	-	-	-	-		+		INSPECTION	WHD; VIRO 0/10, FAT 0/10, BACTE 0/10, PTD-WHD 1/2(X5)	
2001	PAHSIMEROI	SUMMER CHINOOK SALMON	02-595	11/13/2002	-	-	-	-	-	-	-	-				INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, NAVHS 0/10, FAT 0/10, BACTE 0/10	
POWELL SATELLITE		C																
2001	POWELL	SPRING CHINOOK SALMON	02-121	4/5/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, ELISA 0/20 , PTD-WHD 0/20	
2001	POWELL	SPRING CHINOOK SALMON	02-341	8/5/2002	-	-		-	-	-	+	-				INSPECTION	CWD; VIRO 0/10, FAT 0/10, FLAVOBACTERIUM PSYCHROPHILUM	
BROOD	POWELL	SPRING CHINOOK SALMON	02-342	8/5/2002	+	-		+								INSPECTION	IHNV, RS; IHNV 2/4(3), IPNV 0/12, NAVHS 0/3, ELISA 1/11 (LOW), PTD-WHD 0/12	
BROOD	POWELL	SPRING CHINOOK SALMON	02-359	8/12/2002	+	-	-	+								INSPECTION	BKD, IHNV; IHNV 1/17(X3), IPNV 0/101, NAVHS 0/6, ELISA 1/101 (HIGH 1), PTD-WHD 0/10	
BROOD	POWELL	SPRING CHINOOK SALMON	02-372	8/15/2002				+								INSPECTION	BKD; ELISA 10/148 (LOW 3, HIGH 7)	
BROOD	POWELL	SPRING CHINOOK SALMON	02-383	8/19/2002				+								INSPECTION	BKD; ELISA 77/179 (LOW 50, HIGH 27)	
BROOD	POWELL	SPRING CHINOOK SALMON	02-408	8/22/2002				+								INSPECTION	BKD; ELISA 31/80 (LOW 26, HIGH 5), PTD-WHD 0/1	
BROOD	POWELL	SPRING CHINOOK SALMON	02-409	8/26/2002				+								INSPECTION	BKD; ELISA 20/34 (LOW 11, HIGH 9)	
2001	POWELL	SPRING CHINOOK SALMON	02-483	9/23/2002	-	-		+								INSPECTION	RS; VIRO 0/20, FAT 0/20, ELISA 1/4(x5) [LOW 1(X5)], PTD-WHD 0/20	
RANGEN AQUA CTR		D																
2002	RANGEN	RAINBOW TROUT	02-153	4/6/2002				-								INSPECTION	NO PATHOGENS DETECTED; FAT 0/60, PTD-WHD 0/60	
RAPID RIVER HATCHERY		C																
2000	RAPID RIVER	SPRING CHINOOK SALMON	02-057	2/25/2002	-	-		-	-	-	-	-				INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/8	
2000	RAPID RIVER	SPRING CHINOOK SALMON	02-071	3/11/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, ELISA 0/20, PTD-WHD 0/20	
2001	RAPID RIVER	SPRING CHINOOK SALMON	02-210	5/17/2002	-	-		-	-		-	-				INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/8	
2001	RAPID RIVER	SPRING CHINOOK SALMON	02-237	6/18/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10	
2001	RAPID RIVER	SPRING CHINOOK SALMON	02-271	7/10/2002	-	-		-	-	-	-			+		DIAGNOSTIC	MAS; VIRO 0/10, FAT 0/10, PSEUDOMONAS SPP. 2/5	
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-366	8/12/2002				+								INSPECTION	BKD; ELISA 3/8 (HIGH 3)	
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-367	8/13/2002				+								INSPECTION	BKD; ELISA 2/5 (LOW 1, HIGH 1)	

LOCATION		Class	Sample												ExamType	Diagnoses	Page 24
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH			
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-368	8/15/2002				-								INSPECTION	NO PATHOGENS DETECTED; ELISA 0/5
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-369	8/16/2002				+								INSPECTION	BKD; ELISA 1/14 (HIGH 1)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-381	8/19/2002				+								INSPECTION	BKD; ELISA 2/35 (HIGH 2)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-382	8/20/2002				+								INSPECTION	BKD; ELISA 8/20 (LOW 4, HIGH 4)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-391	8/22/2002	+	-	-	+						-		INSPECTION	BKD; IHNV 2/20(3), IPNV 0/60, NAVHS 0/3, ELISA 9/74 (LOW 6, HIGH 3), PTD-WHD 0/20
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-394	8/23/2002				+								INSPECTION	BKD; ELISA 6/29 (LOW 5, HIGH 1)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-399	8/26/2002				+								INSPECTION	BKD; ELISA 58/185 (LOW 44, HIGH 14)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-400	8/27/2002				+								INSPECTION	BKD; ELISA 60/79 (LOW 45, HIGH 15)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-417	8/29/2002				+								INSPECTION	BKD; ELISA 148/363 (LOW 122 HIGH 26)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-418	8/30/2002				+								INSPECTION	BKD; ELISA 69/156 (LOW 51 HIGH 18)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-419	9/2/2002				+								INSPECTION	BKD; ELISA 65/155 (LOW 50, HIGH 15)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-420	9/3/2002				+								INSPECTION	BKD; ELISA 68/74 (LOW 51, HIGH 17)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-429	9/5/2002				+								INSPECTION	BKD; ELISA 40/57 (LOW 26, HIGH 14)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-430	9/6/2002				+								INSPECTION	BKD; ELISA 16/26 (LOW 8, HIGH 8)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-441	9/9/2002				+								INSPECTION	BKD; ELISA 11/12 (LOW 8, HIGH 3)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-481	9/15/2002				+								INSPECTION	BKD; ELISA 5/5 (LOW 1, HIGH 4)
BROOD	RAPID RIVER	SPRING CHINOOK SALMON	02-482	9/16/2002				+								INSPECTION	BKD; ELISA 3/3 (HIGH 3)
2001	RAPID RIVER	SPRING CHINOOK SALMON	02-547	10/21/2002	-	-		-	-	-	-	-				INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/10
2002	RAPID RIVER	SPRING CHINOOK SALMON	02-639	12/10/2002												INSPECTION	TOTAL GAS PRESSURE (TGP) 101%
RED RIVER SATELLITE		C															
2000	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-120	4/4/2002	-	-		-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, ELISA 0/20, PTD-WHD 0/20
2001	S.F. CLEARWATER RIVER	SPRING CHINOOK SALMON	02-467	9/18/2002	-	-		-							-	INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20, FAT 0/20, ELISA 0/20, PTD-WHD 0/20
SAWTOOTH HATCHERY		C															
2000	SAWTOOTH	SPRING CHINOOK SALMON	02-068	3/6/2002	+	-		-	-	-	+	-				DIAGNOSTIC	IHN, CWD; IHNV 2/2(5), IPNV 0/10, FAT 0/10, FLAVOBACTERIUM PSYCHROPHILUM 6/8
2000	SAWTOOTH	SPRING CHINOOK SALMON	02-089	3/19/2002	-	-		+							+	INSPECTION	RS, WHD; VIRO 0/20, FAT 0/20, ELISA 4/4(X5, LOW 4), PTD-WHD

LOCATION		Class	Sample												ExamType	Diagnoses	Page 25
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH			
2000	REDFISH LAKE	SOCKEYE SALMON	02-090	3/19/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/8, NAVHS 0/4, FAT 0/8
BROOD	SAWTOOTH	STEELHEAD, A GROUP	02-127	4/4/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/18, NAVHS 0/4
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	02-135	4/9/2002	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1
BROOD	SAWTOOTH	STEELHEAD, A GROUP	02-136	4/8/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/40, NAVHS, 0/4
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	02-145	4/12/2002	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/5
BROOD	SAWTOOTH	STEELHEAD, A GROUP	02-146	4/11/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/50, NAVHS 0/20
BROOD	SAWTOOTH	STEELHEAD, A GROUP	02-148	4/4/2002										+		INSPECTION	WHD: PTD-WHD 1/20
BROOD	SAWTOOTH	STEELHEAD, A GROUP	02-149	4/15/2002	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/25
2000	SAWTOOTH	SPRING CHINOOK SALMON	02-150	4/16/2002	+	-	-	-							+	DIAGNOSTIC	IHN, WHD; IHNV 16/60, IPNV 0/60, NAVHS 0/4, FAT 0/60, PTD-WHD
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	02-154	4/16/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/5, NAVHS 0/1
BROOD	SAWTOOTH	STEELHEAD, A GROUP	02-163	4/18/2002	-	-	-	-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/50, NAVHS 0/18, FAT 0/60
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	02-164	4/19/2002	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/3
BROOD	SAWTOOTH	STEELHEAD, A GROUP	02-178	4/22/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/30, NAVHS 0/6
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	02-179	4/23/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/6, NAVHS 0/2
BROOD	SAWTOOTH	STEELHEAD, A GROUP	02-184	4/25/2002	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/40, NAVHS 0/4
2000	REDFISH LAKE	SOCKEYE SALMON	02-191	5/2/2002	-	-		+							-	INSPECTION	RS; VIRO 0/60, FAT 0/60, ELISA 1/12(x5, OD=0.106), PTD-WHD 0/60
BROOD	SAWTOOTH	STEELHEAD, A GROUP	02-192	5/2/2002	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/18
2001	SAWTOOTH	SPRING CHINOOK SALMON	02-193	5/2/2002	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60
BROOD	SAWTOOTH	STEELHEAD, A GROUP	02-194	5/2/2002	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/20
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	02-195	5/2/2002	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/3
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	02-200	5/3/2002	-	-									+	INSPECTION	WHD; VIRO 0/2, PTD-WHD 3/7(X3)
BROOD	EAST FORK SALMON RIVER	STEELHEAD, B GROUP	02-207	5/13/2002	-	-		-								INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, FAT 0/27
2001	SAWTOOTH	SPRING CHINOOK SALMON	02-222	5/30/2002	-	-		-	-	-	-	-				INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/10
2001	PAHSIMEROI	SUMMER CHINOOK SALMON	02-223	5/30/2002	-	-		-	-	-	-	-				INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/10
2001	PAHSIMEROI	SUMMER CHINOOK SALMON	02-230	6/17/2002	-	-		-	-	-	+	+				DIAGNOSTIC	CWD, MAS; VIRO 0/10, FAT 0/10, FLAVOBACTERIUM PSYCHROPHILUM 6/10, PSEUDOMONAS FLUORESCENS 4/10

LOCATION		Class	Sample												ExamType	Diagnoses	Page 26	
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH				
2001	SAWTOOTH	SPRING CHINOOK SALMON	02-231	6/17/2002	-	-	-	-	-	-	+	-					DIAGNOSTIC	BACTEREMIA, CWD; VIRO 0/10, FAT 0/10, ACINETOBACTER SPP. 8/10, FLAVOBACTERIUM PSYCHROPHILUM 1/10
2001	SAWTOOTH	SPRING CHINOOK SALMON	02-249	7/1/2002	-	-	-	-	-	-	-	-					DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/10
2001	REDFISH LAKE	SOCKEYE SALMON	02-277	7/12/2002	-	-	-	-	-	-	-	-					INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, FAT 0/10, BACTE 0/10
2001	SAWTOOTH	SPRING CHINOOK SALMON	02-281	7/23/2002	-	-	-	-	-	-	+	+					DIAGNOSTIC	MAS, CWD, COL: VIRO 0/10, FAT 0/12, AEROMONAS HYDROPHILA 8/10, FLAVOBACTERIUM PSYCHROPHILUM 3/10, FLAVOBACTERIUM COLUMNARAE 2/10
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-361	8/12/2002	-	-	-	+									INSPECTION	RS: VIRO 0/28, NAVHS 0/5, ELISA 2/28 (LOW 2)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-362	8/11/2002	-	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/6, NAVHS 0/1
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-363	8/12/2002	-	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/8, NAVHS 0/2
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-376	8/14/2002	-	-	-	+									INSPECTION	BKD: VIRO 0/13, NAVHS 0/1, ELISA 1/13 (HIGH 1)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-378	8/13/2002	-	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/5, NAVHS 0/1, ELISA 0/5
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-379	8/17/2002	-	-											INSPECTION	NO PATHOGENS DETECTED; VIRO 0/13, NAVHS 0/1
AN02	REDFISH LAKE	SOCKEYE SALMON	02-380	8/19/2002	-	-	-	-	-		+	-	-				DIAGNOSTIC	MAS, MYCOSIS: VIRO 0/1, ELISA 0/1, FAT 0/1, AEROMONAS HYDROPHILA 1/1, AEROMONAS SOBRIA 1/1, FUNGUS 1/1, PTD-WHD 0/1, CSH 0/1, PRS 0/1, PARVICAPSULA 0/1 (Simon Jones)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-389	8/20/2002	-	-		+									INSPECTION	RS: VIRO 0/6, ELISA 1/6 (LOW 1)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-390	8/19/2002	-	-		+									INSPECTION	BKD: VIRO 0/25, ELISA 8/25 (LOW 5, HIGH 3)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-392	8/22/2002	-	-	-	+					-				INSPECTION	BKD: VIRO 0/17, NAVHS 0/2, ELISA 16/17 (LOW 12, HIGH 4), PTD-WHD 0/15
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-403	8/26/2002	-	-	-	+									INSPECTION	BKD: VIRO 0/43, NAVHS 0/3, ELISA 12/43 (LOW 9, HIGH 3)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-404	8/27/2002	-	-	-	+									INSPECTION	RS: VIRO 0/9, NAVHS, 0/1, ELISA 1/9 (LOW 1)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-405	8/23/2002	-	-	-	+									INSPECTION	BKD: VIRO 0/5, NAVHS 0/3, ELISA 2/5 (LOW 1, HIGH 1)
AN02	REDFISH LAKE	SOCKEYE SALMON	02-407	8/28/2002	-	-		+	-	-	-	+	-	-			DIAGNOSTIC	BKD, MAS, COL, PARV; VIRO 0/1, FAT 0/1, ELISA 1/1 (O.D. = 0.146), AEROMONAS HYDROPHILA 1/1, FLAVOBACTERIUM COLUMNARE 1/1, PSEUDOMONAS FLUORENSCENS 1/1, PTD-WHD 0/1, PTD-WHD 0/1, CSH 0/1, PCR-PARVICAPSULA 1/1
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-413	8/29/2002	-	-	-	+					-				INSPECTION	BKD: VIRO 0/40, NAVHS 0/4, ELISA 23/40 (LOW 20, HIGH 3), PTD-WHD 0/5

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BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH				
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-414	8/29/2002													INSPECTION	IHNV; IHNV 2/8, IPNV 0/8, NAVHS 0/1, ELISA 3/5 (LOW 1, HIGH 2)
BROOD	SAWTOOTH	CARCASS ANALOGS	02-423	8/3/2002	-	-											INSPECTION	NO PATHOGENS DETECTED; VIRO 0/11
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-424	9/3/2002	-	-											INSPECTION	NO PATHOGENS DETECTED; VIRO 0/4
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-425	9/3/2002	-	-	-	+									INSPECTION	BKD; VIRO 0/15, NAVHS 0/7, ELISA 11/15 (LOW 10, HIGH 1)
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-426	9/3/2002	-	-	-	+									INSPECTION	BKD; VIRO 0/6, ELISA 1/3 (HIGH 1)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-433	9/5/2002	-	-	-	+									INSPECTION	RS; VIRO 0/14, NAVHS 0/3, ELISA 2/14 (LOW 2)
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-434	9/5/2002	-	-											INSPECTION	NO PATHOGENS DETECTED; VIRO 0/8
2001	REDFISH LAKE	SOCKEYE SALMON	02-439	9/6/2002	-	-			-	-	-	-					DIAGNOSTIC	NO PATHOGENS DETECTED; VIRO 0/10, BACTE 0/8
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-443	9/9/2002	-	-	-	-									INSPECTION	NO PATHOGENS DETECTED; VIRO 0/2, NAVHS 0/2, ELISA 0/2
BROOD	SAWTOOTH	SPRING CHINOOK SALMON	02-444	9/9/2002	+	-											INSPECTION	IHNV; IHNV 1/8, IPNV 0/8
WILD	SAWTOOTH	CARCASS, SPRING CHINOOK SALMON	02-445	9/9/2002	-	-	-										INSPECTION	NO PATHOGENS DETECTED; VIRO 0/35, NAVHS 0/4
AN02	REDFISH LAKE	SOCKEYE SALMON	02-446	9/10/2002	-	-	-	-	-	-	-	+	-	-			DIAGNOSTIC	MAS, PARV; VIRO 0/1, FAT 0/1, ELISA 0/1, AEROMONAS HYDROPHILA 1/1, PTD-WHD 0/1, CSH 0/1, PRS 0/1, PARVICAPSULA
BY01	REDFISH LAKE	SOCKEYE SALMON	02-477	9/23/2002	-	-		-	-	-	-	-	-				INSPECTION	NO PATHOGENS DETECTED; VIRO 0/60, FAT 0/60, ELISA 0/60, BACTE 0/20, PTD-WHD 0/60
AN02	REDFISH LAKE	SOCKEYE SALMON	02-479	9/22/2002	-	-		-	-	-	-	+	-	-			DIAGNOSTIC	MAS, PARV; VIRO 0/1, FAT 0/1, ELISA 0/1, AEROMONAS HYDROPHILA 1/1, PSEUDOMONAS SPP. 1/1, PTD-WHD 0/1, CSH 0/1, PARVICAPSULA 1/1
2001	SAWTOOTH	SPRING CHINOOK SALMON	02-594	11/13/2002	-	-	-	-	-	-	-	-					INSPECTION	NO PATHOGENS DETECTED; VIRO 0/10, NAVHS 0/10, FAT 0/10, BACTE 0/10
SOUTH FORK TRAP		D																
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-370	8/9/2002				-									INSPECTION	NO PATHOGENS DETECTED; ELISA 0/1
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-371	8/9/2002				-									INSPECTION	NO PATHOGENS DETECTED; ELISA 0/2
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-374	8/16/2002				+									INSPECTION	BKD; ELISA 2/24 (HIGH 2)
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	02-375	8/16/2002				-									INSPECTION	NO PATHOGENS DETECTED; ELISA 0/6

LOCATION		Class	Sample													ExamType	Diagnoses	Page 28
BroodYr	Stock	Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH				
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-385	8/20/2002				+									INSPECTION	BKD; ELISA 1/38 (HIGH 1)
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	02-386	8/20/2002	-	-	-	+									INSPECTION	BKD; VIRO 0/10, NAVHS 0/1, ELISA 1/10 (HIGH 1)
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	02-395	8/23/2002	-	-	-	+					-				INSPECTION	RS; VIRO 0/6, NAVHS 0/3, ELISA 1/6 (LOW 1), PTD-WHD 0/6
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-396	8/23/2002	+	-	-	+									INSPECTION	IHNV, BKD; IHNV 2/20(X3), IPNV 0/60, NAVHS 0/12, ELISA 15/69 (LOW 8, HIGH 7)
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	02-401	8/27/2002	-	-		+					-				INSPECTION	BKD; VIRO 0/5, NAVHS 0/5, ELISA 1/5 (HIGH 1), PTD-WHD 0/5
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-402	8/27/2002				-					-				INSPECTION	BKD; ELISA 26/140 (LOW 12, HIGH 14), PTD-WHD 0/22
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	02-415	8/30/2002	-	-	-	-					-				INSPECTION	NO PATHOGENS DETECTED; VIRO 0/4, ELISA 0/4, PTD-WHD 0/4
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-416	8/30/2002				+									INSPECTION	BKD; ELISA 7/69 (LOW 4 HIGH 3)
BROOD	JOHNSON CREEK	SUMMER CHINOOK SALMON	02-421	9/3/2002	-	-		-					-				INSPECTION	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1, PTD-WHD 0/1
BROOD	S.F. SALMON RIVER	SUMMER CHINOOK SALMON	02-422	9/3/2002				+									INSPECTION	BKD; ELISA 18/42 (LOW 14, HIGH 4)
UNIVERSITY OF IDAHO/HAGERMAN																		
2001	COLLEGE OF SOUTHERN IDAHO	RAINBOW TROUT	02-114	4/4/2002	-	-		-	-	-	+	-	-	-			INSPECTION	CWD (carrier); VIRO 0/60, FAT 0/60, FLAVOBACTERIUM PSYCHROPHILUM 4/20, PTD-WHD 0/60, CSH 0/10, NUCLEOSPORA



WILD FISH HEALTH SUMMARY REPORT

Report Date: 4/14/2004

Sorted by Date Received at the Lab
Idaho Department of Fish and Game
Eagle Fish Health Laboratory
 1/1/02 TO 12/31/02

Accession	Sample Origin	Species	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam type	Diagnoses
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HENRYS (NORTH) FORK SNAKE RIVER

02-658	HENRYS LAKE HOWARD CREEK	CUTTHROAT TROUT											WILD FISH 1/1	WHD;PTD-MYXOBOLUS SPP. 1/5,PCR-WHD
		Sample Date: 12/30/2002									+			
		Received Date: 12/30/2002												
02-659	HENRYS LAKE DUCK CREEK	CUTTHROAT TROUT											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/12
		Sample Date: 12/30/2002										-		
		Received Date: 12/30/2002												
02-660	HAENRY LAKE TARGHEE CREEK	CUTTHROAT TROUT											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/1
		Sample Date: 12/30/2002										-		
		Received Date: 12/30/2002												

LOST RIVER (& SINKS)

02-653	LITTLE LOST RIVER BULL TROUT SAWMILL CREEK	Sample Date: 12/30/2002											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD
		Received Date: 12/30/2002										-		
02-654	LITTLE LOST RIVER BULL TROUT MAIN STEM LITTLE LOST RIVER	Sample Date: 12/30/2002											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5
		Received Date: 12/30/2002										-		
02-655	LITTLE LOST RIVER BULL TROUT SAWMILL CREEK TIMBER CREEK	Sample Date: 12/30/2002											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/1
		Received Date: 12/30/2002										-		
02-656	LITTLE LOST RIVER BULL TROUT SAWMILL CREEK	Sample Date: 12/30/2002											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/2
		Received Date: 12/30/2002										-		

Accession	Sample Origin	Species	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam type	Diagnoses
02-657	LITTLE LOST RIVER BULL TROUT SAWMILL CREEK											-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/2
														Sample Date: 12/30/2002 Received Date: 12/30/2002
02-661	LITTLE LOST RIVER BULL TROUT MAIN STEM LITTLE LOST RIVER											-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/2
														Sample Date: 12/30/2002 Received Date: 12/30/2002

SALMON RIVER

02-049	MIDDLE FORK MARSH CREEK	SPRING CHINOOK SALMON										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/20
														Sample Date: 8/7/1992 Received Date: 2/26/2002
02-050	VALLEY CREEK UPPER VALLEY CREEK	SPRING CHINOOK SALMON										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/20
														Sample Date: 8/1/1992 Received Date: 2/26/2002
02-051	MAIN STEM UPPER SALMON RIVER	SPRING CHINOOK SALMON										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/20
														Sample Date: 8/8/1994 Received Date: 2/26/2002
02-052	MAIN STEM UPPER SALMON RIVER	SPRING CHINOOK SALMON										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/1
														Sample Date: 4/12/1996 Received Date: 2/26/2002
02-053	MIDDLE FORK BIG CREEK UPPER	CHINOOK SALMON										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/20
														Sample Date: 8/18/1999 Received Date: 2/26/2002
02-054	MIDDLE FORK BIG CREEK LOWER	CHINOOK SALMON										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/20
														Sample Date: 8/2/1999 Received Date: 2/26/2002
02-081	SOUTH FORK SECESH RIVER	CHINOOK SALMON										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/24
														Sample Date: 8/1/1989 Received Date: 3/19/2002

Accession	Sample Origin	Species	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam type	Diagnoses
02-082	SOUTH FORK SECESH RIVER	STEELHEAD										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/1
														Sample Date: 8/1/1989 Received Date: 3/19/2002
02-084	VALLEY CREEK LOWER VALLEY CREEK	CHINOOK SALMON										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/20
														Sample Date: 8/5/1993 Received Date: 3/19/2002
02-085	VALLEY CREEK UPPER VALLEY CREEK	CHINOOK SALMON										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/20
														Sample Date: 8/6/1993 Received Date: 3/19/2002
02-086	MAIN STEM UPPER SALMON RIVER	CHINOOK SALMON										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/20
														Sample Date: 8/5/1993 Received Date: 3/19/2002
02-201	REDFISH LAKE CK REDFISH LAKE CREEK	BULL TROUT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/1
														Sample Date: 4/18/2002 Received Date: 5/8/2002
02-202A	REDFISH LAKE CK REDFISH LAKE CREEK	SOCKEYE SALMON - WILD SMOLT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/6
														Sample Date: 5/2/2002 Received Date: 5/8/2002
02-276	MIDDLE FORK BIG CREEK	WESTSLOPE CUTTHROAT TROUT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/4
														Sample Date: 7/16/2002 Received Date: 7/17/2002
02-286	MIDDLE FORK ELKHORN CREEK	CUTTHROAT TROUT										-		WILD FISH NEUROTROPIC MYXOBOLUS; PTD-MYXOBOLUS SPP 3/4(x5) PCR-M. CEREBRALIS 0/5, PCR-MYXOBOLUS NEUROBIUS 4/5
														Sample Date: 7/18/2002 Received Date: 7/24/2002
02-287	MIDDLE FORK MAINSTEM RAPID RIVER TO INDIAN CREEK	CUTTHROAT TROUT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/6
														Sample Date: 7/18/2002 Received Date: 7/24/2002
02-288	MIDDLE FORK MAINSTEM INDIAN CREEK TO PUNGO CREEK	CUTTHROAT TROUT										+		WILD FISH WHD;PTD-MYXOBOLUS 1/1(x4) PCR-M.CEREBRALIS 1/3
														Sample Date: 7/18/2002 Received Date: 7/18/2002

Accession	Sample Origin	Species	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam type	Diagnoses
02-289	MIDDLE FORK SOLDIER CREEK	CUTTHROAT TROUT										-		WILD FISH NEUROTROPIC MYXOBOLUS; PTD-MYXOBOLUS SPP 3/4(x5) 1/4(X4,PC CEREBRALIS 0/4, PCR-MYXOBOLUS NEUROBIUS 4/4
		Sample Date: 7/21/2002 Received Date: 7/21/2002												
02-290	MIDDLE FORK PAPOOSE CREEK	WESTSLOPE CUTTHROAT TROUT										+		WILD FISH WHD;PTD-MXYOBOLUS 1/1(x4) PCR-M.CEREBRALIS 1/1(4)
		Sample Date: 7/20/2002 Received Date: 7/20/2002												
02-291	MIDDLE FORK GARDEN CREEK	WESTSLOPE CUTTHROAT TROUT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/19
		Sample Date: 7/18/2002 Received Date: 7/18/2002												
02-292	MIDDLE FORK ROARING CREEK	WESTSLOPE CUTTHROAT TROUT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/20
		Sample Date: 7/23/2002 Received Date: 7/23/2002												
02-293	MIDDLE FORK INDIAN CREEK	WESTSLOPE CUTTHROAT TROUT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/28
		Sample Date: 7/18/2002 Received Date: 7/24/2002												
02-294	MIDDLE FORK WILSON CREEK	RAINBOW TROUT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/20
		Sample Date: 7/21/2002 Received Date: 7/24/2002												
02-295	MIDDLE FORK WILSON CREEK	WESTSLOPE CUTTHROAT TROUT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/3
		Sample Date: 7/21/2002 Received Date: 7/21/2002												
02-296	MIDDLE FORK CACHE CREEK	WESTSLOPE CUTTHROAT TROUT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/18
		Sample Date: 7/19/2002 Received Date: 7/19/2002												
02-297	MIDDLE FORK BIG CREEK UPPER	WESTSLOPE CUTTHROAT TROUT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/3
		Sample Date: 7/16/2002 Received Date: 7/16/2002												
02-298	MIDDLE FORK SHIP ISLAND CREEK	WESTSLOPE CUTTHROAT TROUT										-		WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/30
		Sample Date: 7/22/2002 Received Date: 7/24/2002												

Accession	Sample Origin	Species	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam type	Diagnoses
02-299	MIDDLE FORK MARBLE CREEK	WESTSLOPE CUTTHROAT TROUT Sample Date: 7/17/2002 Received Date: 7/24/2002									-		WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/10
02-300	MIDDLE FORK BOUNDARY CREEK #2	WESTSLOPE CUTTHROAT TROUT Sample Date: 7/17/2002 Received Date: 7/24/2002									-		WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/4
02-304	MIDDLE FORK MARBLE CREEK UPPER	WESTSLOPE CUTTHROAT TROUT Sample Date: 7/17/2002 Received Date: 7/24/2002									-		WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5
02-305	MIDDLE FORK MARBLE CREEK MIDDLE FORK	WESTSLOPE CUTTHROAT TROUT Sample Date: 7/18/2002 Received Date: 7/24/2002									-		WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5
02-306	MIDDLE FORK MARBLE CREEK BIG COTTONWOOD	WESTSLOPE CUTTHROAT TROUT Sample Date: 7/18/2002 Received Date: 7/24/2002									-		WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/8
02-307	MIDDLE FORK SOLDIER CREEK UPPER	WESTSLOPE CUTTHROAT TROUT Sample Date: 7/17/2002 Received Date: 7/24/2002									-		WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5
02-406	MAIN STEM UPPER SALMON RIVER	CARCASS, SPRING CHINOOK SALMON Sample Date: 8/28/2002 Received Date: 8/28/2002	-	-	-								WILD FISH	NO PATHOGENS DETECTED; VIRO 0/20,NAVHS 0/2
02-435	ALTURAS LAKE CK ALTURAS LAKE	KOKANEE Sample Date: 9/4/2002 Received Date: 9/6/2002									-		WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5
02-436	PETTIT LAKE CREEK PETTIT LAKE	KOKANEE Sample Date: 9/4/2002 Received Date: 9/6/2002									-		WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5
02-437	REDFISH LAKE CK REDFISH LAKE	KOKANEE Sample Date: 9/5/2002 Received Date: 9/6/2002									-		WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/11

Accession	Sample Origin	Species	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam type	Diagnoses
02-438	PETTIT LAKE CREEK KOKANEE PETTIT LAKE												WILD FISH	NO PATHOGENS DETECTED; HISTO-PRS 0/1
		Sample Date: 9/6/2002 Received Date: 9/6/2002												
02-478	REDFISH LAKE CK REDFISH LAKE CREEK WEIR	CARCASS, SPRING CHINOOK SALMON	-	-		-						-	WILD FISH	NO PATHOGENS DETECTED; VIRO 0/1, ELISA 0/1,PTD-WHD 0/1
		Sample Date: 9/20/2002 Received Date: 9/24/2002												
02-495	LEMHI RIVER MAIN STEM LEMHI	SPRING CHINOOK SALMON	-	-		+						+	WILD FISH	BKD, WHD, VIRO 0/89, ELISA 12/18, PTK-WHD 18/18 pools (X5), PTD-WHD 18/21 individuals (pools 4, 7, 11, &16)
		Sample Date: 9/30/2002 Received Date: 10/3/2002												
02-496	LEMHI RIVER MAIN STEM HEMHI MIDDLE FORK	STEELHEAD	-	-		-						+	WILD FISH	WHD; VIRO 0/1, ELISA 0/1, PTD-WHD 1/1
		Sample Date: 10/1/2002 Received Date: 1/3/2002												
02-600	MIDDLE FORK MARBLE CREEK BIG COTTONWOOD	WESTSLOPE CUTTHROAT TROUT										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/22
		Sample Date: 9/20/2002 Received Date: 11/20/2002												
02-640A	HELL ROARING CR IMMOGENE LAKE 1	WESTSLOPE CUTTHROAT TROUT										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/4
		Sample Date: 8/16/2002 Received Date: 12/11/2002												
02-640B	HELL ROARING CR IMMOGENE LAKE 2	WESTSLOPE CUTTHROAT TROUT											WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/1
		Sample Date: 8/16/2002 Received Date: 12/11/2002												
02-640C	HELL ROARING CR IMMOGENE LAKE 3	WESTSLOPE CUTTHROAT TROUT										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/5
		Sample Date: 8/16/2002 Received Date: 12/11/2002												
03-117	SOUTH FORK STOLLE POND	CHINOOK SALMON										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/14
		Sample Date: 9/1/2000 Received Date: 4/3/2002												
03-125	SOUTH FORK STOLLE POND	CHINOOK SALMON										-	WILD FISH	NO PATHOGENS DETECTED; PTD-WHD 0/11
		Sample Date: 9/25/2000												

Accession	Sample Origin	Species	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam type	Diagnoses
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SNAKE RIVER

02-083	WILDHORSE RIVER LICK CREEK UPPER	STEELHEAD										-		WILD FISH NO PATHOGENS DETECTED; PRS-WHD 0/6
														Sample Date: 8/1/1991 Received Date: 3/19/2002
02-357	SHEEP CREEK SHEEP CREEK	RAINBOW TROUT										-	-	WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/11, CSH 0/11
														Sample Date: 8/8/2002 Received Date: 8/8/2002
02-358	KIRWOOD CREEK KIRWOOD CREEK	RAINBOW TROUT										-	-	WILD FISH NO PATHOGENS DETECTED; PTD-WHD 0/11, CSH 0/11
														Sample Date: 8/9/2002 Received Date: 8/13/2002

SOUTH FORK SNAKE RIVER

02-239	BURNS CREEK BURNS CREEK FISH TRAP	YELLOWSTONE CUTTHROAT TROUT	-	-		+	-	-	-	-	-	-	-	WILD FISH RS;VIRO 0/30, FAT 0/30, ELISA 5/6(X5, LOW 3 HIGH 2), RS-PCR 0/2 (X5), BACTE 0/20, PTD-WHD 0/30, CHS 0/10, NUCLEOSPORA O/12, TRUTTAEDACNITIS TRUTTAE
														Sample Date: 6/19/2002 Received Date: 6/19/2002



WILD FISH HEALTH SUMMARY REPORT

Report Date: 4/14/2004

Idaho Department of Fish and Game
Eagle Fish Health Laboratory
1/1/02 TO 12/31/02

LOCATION		class	Sample														Exam Type	Diagnoses
BroodYr	Experimental Group	Stock/Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam Type	Diagnoses		
PAHSIMEROI R. WHD PROJECT-U OF I																		
BY01	CIRCLE PL	TROUT LODGE RAINBOW TROUT	02-009	1/9/2002											+		RESEARCH WHD;PTD-WHD 2/2	
BY01	GOLDBURG	TROUT LODGE RAINBOW TROUT	02-010	1/9/2002											+		RESEARCH WHD;PTD-WHD 1/1	
BY01	CONTROL	TROUT LODGE RAINBOW TROUT	02-017	1/22/2002											-		RESEARCH NO PATHOGENS DETECTED; WHD-DIGEST 0/20	
BY01	MORSE CK	TROUT LODGE RAINBOW TROUT	02-018	1/22/2002											-		RESEARCH NO PATHOGENS DETECTED; WHD-DIGEST 0/20	
BY01	PATTERSON UPPER	TROUT LODGE RAINBOW TROUT	02-019	1/22/2002											-		RESEARCH NO PATHOGENS DETECTED; WHD-DIGEST 0/11	
BY01	N.F. LAWSON	TROUT LODGE RAINBOW TROUT	02-020	1/22/2002											-		RESEARCH NO PATHOGENS DETECTED; WHD-DIGEST 0/22	
BY01	GOLDBURG	TROUT LODGE RAINBOW TROUT	02-021	1/22/2002											+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 18/18	
BY01	PAH < INDIAN SPRINGS	TROUT LODGE RAINBOW TROUT	02-022	1/22/2002											+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 20/20	
BY01	PATTERSON @ MOENS	TROUT LODGE RAINBOW TROUT	02-023	1/22/2002											+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 5/20	
BY01	CIRCLE PL	TROUT LODGE RAINBOW TROUT	02-024	1/22/2002											+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 20/20	
BY01	PFH INTAKE IDFG R=1	TROUT LODGE RAINBOW TROUT	02-025	1/22/2002											+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 20/20	
BY01	PFH INTAKE IDFG R=2	TROUT LODGE RAINBOW TROUT	02-026	1/22/2002											+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 20/20	

BroodYr	Experimental Group	Stock/Species	Accession	Sample Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam Type	Diagnoses
BY01	PFH INTAKE UI R=1	TROUT LODGE RAINBOW TROUT	02-027	1/22/2002									+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 11/20	
BY01	PFH INTAKE UI R=2	TROUT LODGE RAINBOW TROUT	02-028	1/22/2002									+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 14/20	
BY01	PFH TRAP IDFG R=1	TROUT LODGE RAINBOW TROUT	02-029	1/22/2002									+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 20/20	
BY01	PFH TRAP IDFG R=2	TROUT LODGE RAINBOW TROUT	02-030	1/22/2002									+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 20/20	
BY01	PFH TRAP UI R=1	TROUT LODGE RAINBOW TROUT	02-031	1/22/2002									+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 8/8	
BY01	PFH TRAP UI R=2	TROUT LODGE RAINBOW TROUT	02-032	1/22/2002									+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 20/20	
BY01	PATTERSON @ MOENS	TROUT LODGE RAINBOW TROUT	02-033	1/14/2002									-		RESEARCH NO PATHOGENS DETECTED; WHD-DIGEST 0/1	
BY01	MIXED (BLIND STUDY)	HAYSPUR RAINBOW TROUT	02-638	12/102/2002									+		RESEARCH WHD; PCR-WHD 19/40	
SAWTOOTH HATCHERY																
2002	HEADBOX RCY4	RAINBOW TROUT	02-650	12/30/2002									+		RESEARCH WHD,PTD-WHD 21/29	
2002	SETTLING POND INTAKE	RAINBOW TROUT (NAMPA)	02-651	12/30/2002									+		RESEARCH WHD; PCR-WHD 2/23	
2002	SETTLING POND EFFLUENT	RAINBOW TROUT (NAMPA)	02-652	12/3/2002									+		RESEARCH WHD; PCR-WHD 23/25	
U OF I PAH TRIAL I																
BY01	MORSE CK	TROUT LODGE RAINBOW TROUT	02-521	1/22/2002									-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 01/10	
BY01	N.F. LAWSON	TROUT LODGE RAINBOW TROUT	02-522	1/22/2002									-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/8	
BY01	GOLDBURG	TROUT LODGE RAINBOW TROUT	02-523	1/22/2002									+		RESEARCH WHD; PTD-WHD 2/2	
BY01	PATTERSON @ MOENS	TROUT LODGE RAINBOW TROUT	02-524	1/22/2002									-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/10	
U OF I PAH TRIAL II																
BY02	CONTROL	HAYSPUR RAINBOW TROUT-TRIPLOID	02-259	7/15/2002									-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/10	
BY02	MORGAN CREEK	HAYSPUR RAINBOW TROUT-TRIPLOID	02-260	7/15/2002									-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/10	

LOCATION		class	Sample											Page 3		
BroodYr	Experimental Group	Stock/Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam Type	Diagnoses
BY02	FALLS CREEK	HAYSPUR RAINBOW TROUT-TRIPLOID	02-261	7/15/2002										-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/10
BY02	BIG CREEK	HAYSPUR RAINBOW TROUT-TRIPLOID	02-262	7/15/2002										-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/1
BY02	BIG GULCH	HAYSPUR RAINBOW TROUT-TRIPLOID	02-263	7/15/2002										-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/10
BY02	GOLDBURG R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-264	7/15/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 10/10
BY02	GOLDBURG R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-265	7/15/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 9/10
BY02	HATCH LANE R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-266	7/15/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 9/10
BY02	HATCH LANE R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-267	7/15/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 7/10
BY02	INDIAN SPRINGS R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-268	7/15/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 8/10
BY02	INDIAN SPRINGS R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-269	7/15/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 9/10
BY02	PFH INTAKE	HAYSPUR RAINBOW TROUT-TRIPLOID	02-270	7/15/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 9/10
2002	CONTROL	KAMLOOPS RBT-TRIPLOID	02-312	7/29/2002										-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/16
2002	FALLS CREEK	KAMLOOPS RBT-TRIPLOID	02-313	7/29/2002										-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/5
2002	MORGAN CREEK	KAMLOOPS RBT-TRIPLOID	02-314	7/29/2002										-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/19
2002	BIG GULCH	KAMLOOPS RBT-TRIPLOID	02-315	7/29/2002										-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/10
2002	GOLDBURG R=1	KAMLOOPS RBT-TRIPLOID	02-316	7/29/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 11/13
2002	GOLDBURG R=2	KAMLOOPS RBT-TRIPLOID	02-317	7/29/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 13/13
2002	HATCH LANE R=1	KAMLOOPS RBT-TRIPLOID	02-318	7/29/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 11/14
2002	HATCH LANE R=2	KAMLOOPS RBT-TRIPLOID	02-319	7/29/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 10/11
2002	INDIAN SPRINGS R=1	KAMLOOPS RBT-TRIPLOID	02-320	7/29/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 10/15
2002	INDIAN SPRINGS R=2	KAMLOOPS RBT-TRIPLOID	02-321	7/29/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 12/14
2002	PFH INTAKE	KAMLOOPS RBT-TRIPLOID	02-322	7/29/2002										+		RESEARCH WHD; MYXOBOLUS CEREBRALIS-PTD 9/11

LOCATION		class	Sample											Page 4		
BroodYr	Experimental Group	Stock/Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam Type	Diagnoses
2002	CONTROL	HAYSPUR RAINBOW TROUT-TRIPLOID	02-346	8/14/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/14
2002	MORGAN CREEK	HAYSPUR RAINBOW TROUT-TRIPLOID	02-347	8/14/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/18
2002	BIG GULCH	HAYSPUR RAINBOW TROUT-TRIPLOID	02-348	8/14/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/9
2002	GOLDBURG R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-349	8/14/2002									+		RESEARCH	WHD; MYXOBOLUS CEREBRALIS-PTD 11/11
2002	GOLDBURG R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-350	8/14/2002									+		RESEARCH	WHD; MYXOBOLUS CEREBRALIS-PTD 11/12
2002	HATCH LANE R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-351	8/14/2002									+		RESEARCH	WHD; MYXOBOLUS CEREBRALIS-PTD 14/14
2002	HATCH LANE R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-352	8/14/2002									+		RESEARCH	WHD; MYXOBOLUS CEREBRALIS-PTD 10/11
2002	INDIAN SPRINGS R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-353	8/14/2002									+		RESEARCH	WHD; MYXOBOLUS CEREBRALIS 8/14
2002	INDIAN SPRINGS R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-354	8/14/2002									+		RESEARCH	WHD; PTD-WHD 10/14
2002	PFH INTAKE	HAYSPUR RAINBOW TROUT-TRIPLOID	02-355	8/14/2002									+		RESEARCH	WHD; MYXOBOLUS CEREBRALIS-PTD 11/11
U OF I PAH TRIAL III																
BY02	CONTROL	HAYSPUR RAINBOW TROUT-TRIPLOID	02-504	10/11/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	CONTROL	HAYSPUR RAINBOW TROUT-TRIPLOID	02-504A	11/1/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/15
BY02	CONTROL	HAYSPUR RAINBOW TROUT-TRIPLOID	02-504B	11/15/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/15
BY02	BIG CREEK	HAYSPUR RAINBOW TROUT-TRIPLOID	02-505	10/11/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	BIG CREEK	HAYSPUR RAINBOW TROUT-TRIPLOID	02-505A	11/1/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/15
BY02	BIG CREEK	HAYSPUR RAINBOW TROUT-TRIPLOID	02-505B	11/15/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/15
BY02	GRAVES SPRING R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-506	10/11/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20

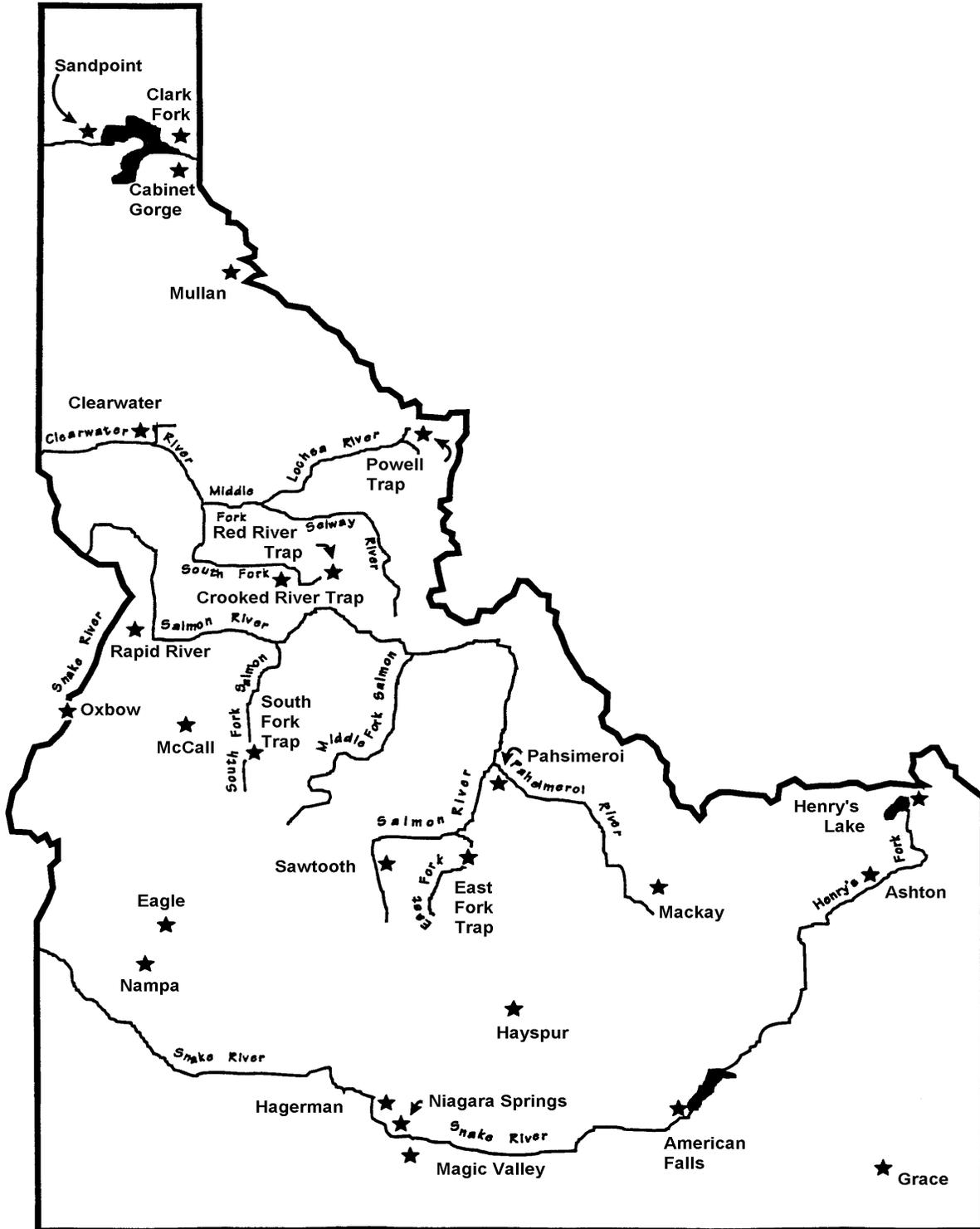
LOCATION		class	Sample											Page 5		
BroodYr	Experimental Group	Stock/Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam Type	Diagnoses
BY02	GRAVES SPRINGS R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-506A	11/1/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/15
BY02	GRAVES SPRINGS R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-506B	11/15/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/14
BY02	GRAVES SPRINGS R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-507	10/11/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	GRAVES SPRINGS R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-507A	11/10/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/16
BY02	GRAVES SPRINGS R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-507B	11/15/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/12
BY02	HOUSE	HAYSPUR RAINBOW TROUT-TRIPLOID	02-508	10/11/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	HOUSE R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-508A	11/1/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/16
BY02	HOUSE R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-508B	11/15/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/16
BY02	HOUSE R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-509	10/11/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	HOUSE R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-509A	11/1/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/17
BY02	HOUSE R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-509B	11/15/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/19
BY02	FENCE R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-510	10/11/2002									+		RESEARCH	WHD;PTD-WHD 17/20
BY02	FENCE R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-510A	11/1/2002									+		RESEARCH	WHD;PTD-WHD 19/19
BY02	FENCE R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-510B	11/15/2002									+		RESEARCH	WHD;PTD-WHD 17/17
BY02	FENCE R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-511	10/11/2002									+		RESEARCH	WHD;PTD-WHD 20/20
BY02	FENCE R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-511A	11/1/2002									+		RESEARCH	WHD;PTD-WHD 26/26
BY02	FENCE R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-511B	11/15/2002									+		RESEARCH	WHD;PTD-WHD 19/19

LOCATION		class	Sample											Exam Type	Diagnoses	
BroodYr	Experimental Group	Stock/Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH		
BY02	TANGERINE R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-512	10/11/2002										+		RESEARCH WHD;PTD-WHD 13/20
BY02	TANGERINE R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-512A	11/1/2002										+		RESEARCH WHD;PTD-WHD 18/20
BY02	TANGERINE R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-512B	11/15/2002										+		RESEARCH WHD;PTD-WHD 14/17
BY02	TANGERINE R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-513	10/11/2002										+		RESEARCH WHD;PTD-WHD 18/20
BY02	TANGERINE R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-513A	11/1/2002										+		RESEARCH WHD;PTD-WHD 12/12
BY02	TANGERINE R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-513B	11/15/2002										+		RESEARCH WHD;PTD-WHD 12/12
BY02	OCTAGON(GOLDBURG) R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-514	10/11/2002										+		RESEARCH WHD;PTD-WHD 5/20
BY02	OCTAGON(GOLDBURG) R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-514A	11/1/2002										+		RESEARCH WHD;PTD-WHD 10/19
BY02	OCTAGON(GOLDBURG) R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-514B	11/15/2002										+		RESEARCH WHD;PTD-WHD 14/18
BY02	OCTAGON(GOLDBURG) R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-515	10/11/2002										+		RESEARCH WHD;PTD-WHD 6/20
BY02	OCTAGON(GOLDBURG) R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-515A	11/1/2002										+		RESEARCH WHD;PTD-WHD 10/18
BY02	OCTAGON(GOLDBURG) R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-515B	11/15/2002										+		RESEARCH WHD;PTD-WHD 12/15
BY02	PATTERSON @ MOENS	HAYSPUR RAINBOW TROUT-TRIPLOID	02-516	10/11/2002										-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	PATTERSON @ MOENS	HAYSPUR RAINBOW TROUT-TRIPLOID	02-516A	11/1/2002										-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/21
BY02	PATTERSON @ MOENS	HAYSPUR RAINBOW TROUT-TRIPLOID	02-516B	11/15/2002										-		RESEARCH NO PATHOGENS DETECTED; PTD-WHD 0/17
BY02	PFH INTAKE	HAYSPUR RAINBOW TROUT-TRIPLOID	02-517	10/11/2002										+		RESEARCH WHD;PTD-WHD 20/20
BY02	PFH INTAKE	HAYSPUR RAINBOW TROUT-TRIPLOID	02-517A	11/1/2002										+		RESEARCH WHD;PTD-WHD 12/12

LOCATION		class	Sample											Page 7		
BroodYr	Experimental Group	Stock/Species	Accession	Date	IHN	IPN	NAVHS	BKD	FUR	ERM	CWD	MAS	WHD	CSH	Exam Type	Diagnoses
BY02	PFH INTAKE	HAYSPUR RAINBOW TROUT-TRIPLOID	02-517B	11/15/2002									+		RESEARCH	WHD;PTD-WHD 10/10
U OF I PAH TRIAL IV																
BY02	CONTROL	HAYSPUR RAINBOW TROUT	02-601	12/23/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	GOLDBURG	HAYSPUR RAINBOW TROUT-TRIPLOID	02-602	12/23/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	HATCH SPRING R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-603	12/23/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/17
BY02	HATCH SPRING R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-604	12/23/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	BARNES R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-605	12/23/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	BARNES R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-606	12/23/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	PINES R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-607	12/23/2002									+		RESEARCH	WHD;PTD-WHD 1/20
BY02	PINES R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-608	12/23/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/19
BY02	<PINES R=1	HAYSPUR RAINBOW TROUT-TRIPLOID	02-609	12/23/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	<PINES R=2	HAYSPUR RAINBOW TROUT-TRIPLOID	02-610	12/23/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	<INDIAN SPRINGS	HAYSPUR RAINBOW TROUT-TRIPLOID	02-611	12/23/2002									+		RESEARCH	WHD;PTD-WHD 18/20
BY02	E IRRIGATION	HAYSPUR RAINBOW TROUT-TRIPLOID	02-612	12/23/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/20
BY02	FUREY'S	HAYSPUR RAINBOW TROUT-TRIPLOID	02-613	12/23/2002									-		RESEARCH	NO PATHOGENS DETECTED; PTD-WHD 0/16
BY02	PFH INTAKE	HAYSPUR RAINBOW TROUT-TRIPLOID	02-614	12/23/2002									+		RESEARCH	WHD;PTD-WHD 20/20
BY02	FUREY'S	TROUT LODGE RAINBOW TROUT	02-615	12/25/2002	-	-			-	-	-	-			DIAGNOSTIC	ICH, VIRO 0/2,BACTE 0/2, ICTHYOPHTHIRUS 2/2
BY02	PFH INTAKE	HAYSPUR RAINBOW TROUT-TRIPLOID	02-648	12/24/2002									+		RESEARCH	WHD;PTD-WHD 1/11

Appendix 4. Geographic location of Idaho Department of Fish and Game culture facilities.

IDAHO DEPARTMENT OF FISH AND GAME
FISH HATCHERIES



Submitted by:

**Keith Johnson
Fish Pathologist Supervisor**

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Resident Fish Pathologist**

**A. Douglas Munson
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