

HAGERMAN NATIONAL FISH HATCHERY

Fiscal Year 2009

Summary of Operations and Expenditures



INTRODUCTION

The Hagerman National Fish Hatchery (Hatchery) is located along the Snake River, about 30 miles west of Twin Falls, Idaho at a point three miles south and two miles east of Hagerman, Idaho. The Hatchery was authorized by 46 Stat, 371 on May 21, 1930 and was established in 1932. Construction of the physical facilities commenced in 1932; fish production began in 1933. The primary goal of the Hatchery, at that time, was the production of rainbow trout for stocking in Idaho, eastern Oregon, and northern Nevada.

In the late 1970s the Hatchery became part of the Lower Snake River Compensation Plan (LSRCP) which was authorized by the Water Resources Development Act of 1976, Public Law 94-587. The LSRCP is designed to mitigate for fish and wildlife losses caused by the construction of four dams on the lower Snake River. For its part in the LSRCP program, the Hatchery's primary production goal was changed from resident rainbow trout to steelhead trout. The Hatchery was extensively remodeled during 1984 to accommodate this change.

There are 78 outside raceways at the Hatchery. Of these, 66 are devoted to LSRCP steelhead production and 12 are reserved for other programs which the Fish and Wildlife Service (Service) deems appropriate. During Fiscal Year (FY) 2009, rainbow trout for the Dworshak Reservoir Mitigation program were reared in these raceways. Other major facilities include two hatchery-rearing buildings with a total of 60 rearing tanks, a water chiller building, an administration-visitor facility building, a combination shop/four-stall garage, four residences, an oil/paint storage building, and two general storage buildings.

The Hatchery's water supply emanates from the Eastern Snake Plain Aquifer via a complex of springs at a constant 59 degrees Fahrenheit with a flow rate of approximately 30,000 gallons per minute.

Located on two, 2-acre parcels, within the boundary of the Hatchery is the Hagerman Fish Culture Experiment Station (HFCES). This research facility is owned and operated by the University of Idaho. The water rights and diversions for this facility are owned by the Fish and Wildlife Service and administered through the Hatchery.

STATION OPERATIONS

The LSRCP established a mitigation goal for the Hatchery program of 13,600 adult steelhead returning above Lower Granite Dam. However, within the framework of the LSRCP, specific objectives and tasks for the Hatchery's steelhead production program are established through a high degree of interagency coordination. Results of this coordination affect certain aspects of the program such as total number and strain reared, time and size at release, and location of release. During FY 2009, the LSRCP office coordinated the Salmon River Annual Operating Plan with the Idaho Department of Fish and Game (IDFG), the Shoshone/Bannock Tribes, and the Nez Pierce Tribe. This planning process is used to accomplish and document the Hatchery's steelhead production coordination.

The Hatchery also produces rainbow trout for the Dworshak Reservoir Mitigation program as an in-kind exchange with the IDFG. The trout are released into southern Idaho reservoirs; fish

reared at the IDFG Nampa State Fish Hatchery are released into Dworshak Reservoir. The program calls for releasing sub-catchable trout in the spring and catchable trout in the fall. The Hatchery conducts relevant coordination on this program directly with the IDFG resident trout programmatic staff.

FISH CULTURE OPERATIONS

Pertinent fish rearing information for all species held on station during FY 2009 is presented in Table 1.

Steelhead

Brood Year 2009 Steelhead

The Hatchery had several meetings throughout the year with IDFG, LSRCP, Idaho Fish Health Center, the Shoshone Bannock Tribes, and the Nez Perce Tribe in an effort to transfer the Clearwater B stock to Magic Valley Fish Hatchery (FH). During brood years 2007 and 2008, Magic Valley FH had better late-rearing survival of the Clearwater B stock. At the same time, Magic Valley experienced lower survival with the East Fork Naturals and Upper Salmon B stocks due to limited space during early hatchery rearing (20 tanks). The transfer of stocks reared at the Hatchery also fit with the U.S. Fish and Wildlife Service, Hatchery Review Team (HRT) recommendations which were published in June 2009.

As a result of these meetings, the Hatchery adjusted production for BY2009 by swapping several stocks and release sites with Magic Valley FH. The Hatchery retained the Sawtooth A stock released at the Sawtooth weir and gained an additional 220,000 Sawtooth A stock for the Yankee Fork, the entire East Fork Naturals program, and a Sawtooth A stock release at the Tunnel Rock release location. In exchange, Magic Valley took on the Pahsimeroi A stock for the Little Salmon River and Hazard Creek releases, the Clearwater B stock, and retained the Upper Salmon B stock.

Target steelhead smolt production Hagerman National Fish Hatchery, BY08-09

<u>Release Site</u>	<u>Stock</u>	<u>Total Smolts</u>	
		<u>BY2008</u>	<u>BY2009</u>
East Fork Salmon R. Weir	East Fork Natural	-	170,000
Salmon R. Sec. 18 Tunnel Rock	Sawtooth A	-	60,000
Sawtooth Weir	Sawtooth A	840,000	790,000
Yankee Fork	Sawtooth A	220,000	440,000
Little Salmon River	Pahsimeroi A	160,000	-
Hazard Creek	Pahsimeroi A	40,000	-
Lower East Fork Salmon River	Clearwater B	100,000	-
Little Salmon River	Clearwater B	100,000	-
		1,460,000	1,460,000

During the 2009 rearing program the Hatchery lost an entire tank of East Fork Natural fingerlings due to a large clump of moss plugging the two-inch supply valve. Although small

amounts of weeds, moss, and debris have commonly passed through the Hatchery II supply line, daily preventive cleaning and night security checks had prevented such problems. This was the first time a fish kill occurred from moss plugging the supply valve. The moss plug likely originated behind the intake screens at the Brailsford Intake or in the short channel beyond the covered section of Spring 13. The Hatchery is developing a plan to install shade covers to reduce moss growth due to sunlight.

The Pacific States Marine Fishery Commission (PSMFC) crew started adipose clipping and coded wire tagging on August 19th and left August 25th. The Hatchery and PSMFC crews worked double shifts and through the weekend to complete marking. The PSMFC crew returned during the first week of September to finish coded wire tagging the last egg take of East Fork Naturals which were too small to tag in August (>160 fpp).

The Hatchery Evaluation Team (HET) undertook several evaluations in BY2009:

Carrying Capacity Evaluation

As part of the carrying capacity evaluation, and in light of the declining water supply, the Hatchery continued a study to compare Smolt to Adult Returns (SARs) of steelhead reared on the upper deck (1st use water) compared to the lower deck (3rd use water). The IDFG marking crew placed 40,000 CWTs in fish from Sawtooth A stock upper deck raceways 39 and 46 and 40,000 CWTs in fish from Sawtooth A stock bottom deck raceways 84 and 91. The HET is on the 3rd year of this 5 year study scheduled through BY2011. It is anticipated that this study will provide insight into the effects of 3-pass serial reuse water quality as it relates to smolt quality.

Low Hatchery Tank Density Rearing

The HRT recommended reducing densities during early rearing in the hatchery tanks to reduce fish stress and subsequent disease. To test this hypothesis, 300,000 fingerlings from Sawtooth A stock lots 1, 2, and 3 were transferred from the hatchery building at a Density Index below 0.5 and ponded in the Steelhead raceways on July 23rd. The remaining fingerlings were kept in the hatchery tanks until ad clipping and coded wire tagging operations in mid-August at a Density Index around 0.8. Rearing parameters and fish health will be tracked during Fiscal Year 2010.



Water Conditioning

The HET conducted an evaluation of a commercial water conditioning solution (Vidalife® 1 mL/15L H₂O). The study consisted of transferring 100,000 un-clipped Sawtooth A stock fingerlings in Vidalife® to the Steelhead raceways compared to transferring a 100,000 un-clipped Sawtooth A stock fingerlings in untreated water. Instantaneous mortality between groups was negligible and overall survival rates of both steelhead fingerling transfer groups will be tracked through rearing. The study will provide a structured comparison of water conditioning during fingerling transport.

Brood Year 2008 Steelhead

PIT Tagging



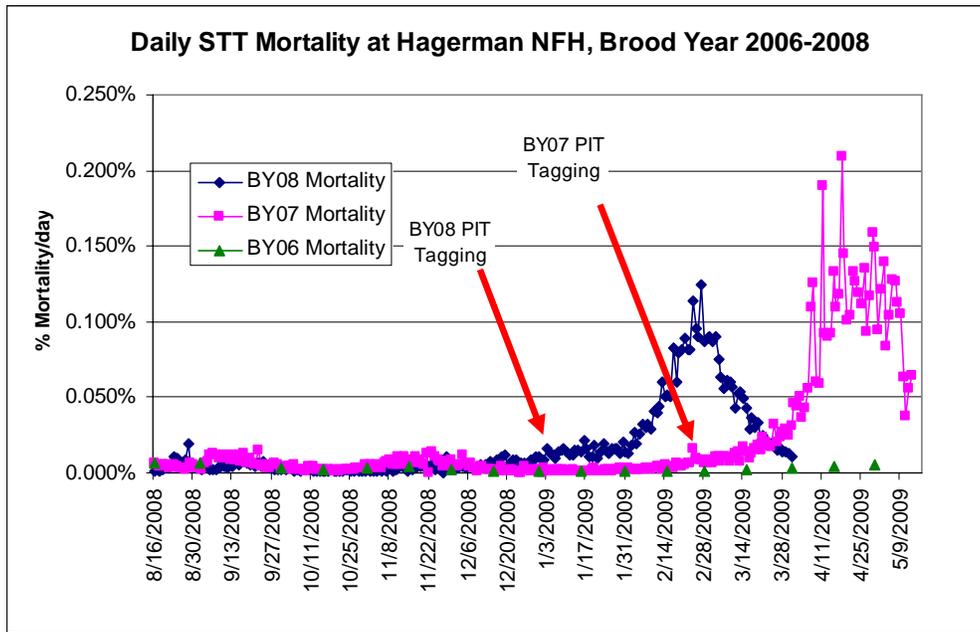
The PIT tagging was completed January 6-8th. The Idaho Fish and Game (IDFG) PIT tagged 26,900 smolts. The Hatchery rented an off-road fork lift to deal with the snow and ice conditions around the raceways for moving the transport tank and the dewater tower. The Hatchery crew used the 4-inch fish pump and dewater tower for moving smolts into the trailer. The system worked well; however, in the future the Hatchery may pump the smolts directly into the trailer and utilize the trailer's dewatering system. Utilizing the trailer's dewatering system

will reduce smolt air exposure before entering the trailer tanks.

Although the PIT tagging process went well, the Hatchery experienced fish health issues (see Fish Health below) with the Clearwater B stock two to three weeks after PIT tagging. The stress of crowding and moving the smolts may be the final straw for the health of the Clearwater B's at the Hatchery. Future PIT tagging operations should consider moving PIT tagging even earlier in the year to October, or avoiding the Clearwater B stock altogether.

Fish Health

The BY2008 mortality pattern in all stocks was strikingly similar to the BY2007 mortality relative to time of PIT tagging. Mortality for both BY2007 and BY2008 increased 4 weeks after tagging and peaked 53 days post tagging. The drop in mortality rate for BY2008 was due to a successful treatment with Aquaflor®. The BY2007 fish were not treated because the time frame available would not meet FDA regulations for withdrawal of the medication. Although it appears in the graph below that the mortality rate declined for BY2007, this is an artifact created by fish being transported off station for release (distribution started on 3/31/08). The BY2006 spring mortality patterns were negligible. In BY2006 approximately 1,500 fish were PIT tagged as compared to BY2007 and FY2008, when approximately 27,000 were tagged.



During the rearing of the 2008 brood year the Idaho Fish Health Center diagnosed *Nucleospora salmonis* (NS), Coldwater disease (*Flavobacterium psychrophilum*,) and Frunculosis (*Aeromonas salmonicida*). The Hatchery treated the Clearwater B stock for Coldwater disease with 908g/ton Aquaflor[®] at 1% daily feeding rate using demand feeders from 1/24-2/2/2009 to control mortality. All stocks tested positive for Frunculosis in late February and the entire Hatchery was treated with 1816g/ton Aquaflor[®] at 0.5% daily feeding rate by hand from 3/4-13/2009 to control mortality.



1,783 Recovered PIT Tags from Mortality



Hand Feeding Aquaflor[®] Medicated Feed

Diet Study

The Hatchery compared the Rangen[®] EXSL 470 diet to the specially formulated “Hagerman Steelhead Diet” in Brood Year 2008. The diets were fed to Dworshak B stock steelhead smolts from December 2008 to April 2009. There were no significant differences in growth, conversion, fish health, or survival between the diets. However, the experimental diets were suspended twice for 10-day Aquaflor (Florenfenicol) treatments for epizootics of Frunculosis

and Coldwater disease. These epizootics may have affected the results. The Hatchery does not have further EXSL 470 diet evaluation plans in Brood Year 2009 since the Dworshak B smolts were transferred to Magic Valley FH and no apparent fish production benefit were realized.

Water Supply

The Hatchery's water supply continues to spiral downward (Figure 1). Water available to the Steelhead Raceways bottomed at 59.5 cfs during the last week of February 2009. The Production Capacity Assessment document by the Hatchery Evaluation Team specified 58 cfs as a cut-off point to reduce production levels. Given the increased stress associated with large PIT tagging efforts, the Hatchery has initiated discussions with IDFG policy makers and the LSRCP staff regarding cutting 100,000 smolts from production in BY2010 to address declining water supplies.

Brood Year 2008 Steelhead Distribution

Table 3 contains steelhead distribution data. The Hatchery transported steelhead smolts from March 30 to May 13, 2009. Overall, steelhead distribution went very well.



Adult Sawtooth A stock steelhead returning to the Yankee Fork Release Site.

Rainbow Trout

Brood Year 2009 Rainbow Trout

The Hatchery released 89,343 (16.5 fpp, 5.4") spring fingerling rainbow trout into Salmon Falls Creek Reservoir on May 27th and 28th.

Brood Year 2008 Rainbow Trout

The Hatchery released 27,161 rainbow trout at Chesterfield Reservoir (3 trips) and 14,356 trout in Salmon Falls Reservoir (1 trip) during the first week of October. The Hatchery used un-chilled spring water (59°F) for trout hauling because the Reservoir water temperatures were relatively warm (56-60°F). Overall, the trout hauling went extremely well with only 11 hauling mortalities.

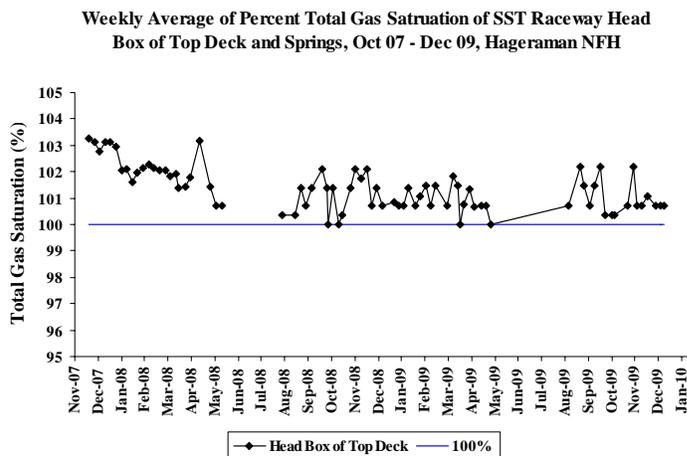
Hatchery Practices

Hatchery Water Supply and Water Rights

The Hatchery attended several Comprehensive Aquaculture Management Plan (CAMP) meetings throughout FY2009. In addition the Hatchery attended the Hagerman Valley Water Field Day and Project Tour hosted by the Idaho Water Alliance and the Lower Snake River Aquifer Recharge District. The participants toured several sites around the Hagerman Valley and discussed ongoing efforts to find solutions to declining Aquifer levels. The tour included a presentation by Neil Farmer, Idaho Department of Water Resources, regarding studies at the Malad State Park to evaluate tracer dye as a means to evaluate aquifer flow.

Water Quality

The Hatchery continued to monitor gas supersaturation at the headbox to the Steelhead Raceways and in several springs. Tom Tighe, Assistant Manager for Magic Valley Fish Hatchery, assisted with these measurements using a Common Sensing Unit® to verify the Hatchery's readings. These measurements averaged just below 103% total gas saturation which



matched the Hatchery's readings. Initial calculations using sea-level adjusted barometric pressure instead of station barometric pressure caused erroneously high readings. Additional investigations corrected the Hatchery's error. Total gas saturation has ranged between 100 to 103% over the past two brood years in the headbox of the Steelhead Raceways and has declined since the construction project on the Main Spring Intake in FY 2008. Although speculative, it appears this decline is

due to the re-colonized moss on the screens which is dissipating the energy and reducing the plunge effect into the water.

The Hatchery installed additional splashboards in the tailboxes of the upper and middle decks to increase gas exchange. The installation did not make a significant measurable difference in gas saturation.



Before splash board installation



After splash board installation

National Pollution Discharge Elimination System (NPDES) permit

Bryan Kenworthy and Nathan Wiese discussed NPDES permit violations with Chris Gebhardt, NPDES Compliance Officer and Inspector, US Environmental Protection Agency (EPA). The Hatchery was listed on a Quarterly Noncompliance Report (QNCR) for not filing certifications for Best Management Practices (BMP) and Quality Assurance (QA) plans. The Hatchery faxed copies of the previously mailed BMP and QA certifications to resolve the issues. Future EPA correspondence will be sent via certified mail to document filings.

The Hatchery also contacted the EPA to appeal two National Pollution Discharge Elimination System (NPDES) permit compliance violations. The Hatchery learned of the violations through the EPA's Enforcement & Compliance History Online (ECHO) website (<http://www.epa-echo.gov/echo/>). Both violations were from missed paperwork filing deadlines rather than effluent discharge violations. However, the Hatchery records indicate that all paperwork was sent to EPA within the filing deadlines, hence the appeal.

FISCAL OPERATIONS

Personnel

Table 5 provides a summary of staffing for the Hatchery for FY 2009.

Training

Table 6 provides a summary of training received by the Hatchery employees during FY 2009.

Fiscal Data

Table 7 presents an itemization of Hatchery expenditures for FY 2009.

FACILITIES MAINTENANCE AND CAPITAL OUTLAY

New Brush Chipper

The Hatchery crew and Lance Roberts, Fire Management Officer, SE Idaho Refuge Complex, attended safety training for the Morbark, Beaver 12” Brush Chipper. Jason Showers, Morbark representative, led the safety training. The Region 1 Wildland Fire Program purchased the Brush chipper for use in its fire fuels reduction program.



Condition Assessment

Kim Hubbard, Facilities Maintenance Coordinator, Region 1 Fisheries, visited the Hatchery to conduct the 5-year Condition Assessment.

Environmental Compliance Audit

Jeremy Fleming, Region 1 Environmental Compliance Officer, completed the 5-year Environmental Compliance Audit Report for the Hatchery. The audit recommended replacing the oil/paint house with an approved flammable storage building. The current oil/paint house does not meet spill protection and fire guidelines because of its concrete block walls and wooden rafters.



Energy Conservation Program Greening the Government (Executive Order 13123 and 13101)

During FY 2009 the Hatchery took advantage of the Idaho Power Company Energy Efficiency program. The Hatchery received a \$1,836 incentive for its effort which represented an estimated 80% of the cost of the materials. Steve Money, Maintenance Mechanic, replaced the ballasts and bulbs of fluorescent light fixtures (T-12 to T-8) in the Administration Building and Hatchery Building #1's office and tank area. Installation of motion activated light switches in the bathrooms of the Visitor's Comfort Station, Hatchery Building #1, and the Administration

Building was included as part of the project. This conversion is anticipated to reduce light energy consumption by up to 25%. The Hatchery boxed the T-12 bulbs and ballasts for shipment to a recycling center. The Hatchery continues to participate in the Department of Defense Closed Loop oil program and to recycle batteries, paper, cardboard, metal materials, etc.

New Backhoe

The Hatchery took delivery of a used 2003 Caterpillar, 420D, 4x4, Backhoe with 4-in-1 bucket. This machine had been used in a municipal roads maintenance district and had only 1700 hours of operation. The vendor took the older 1972 Case model 580C in trade.



Feed Bin Expansion Project

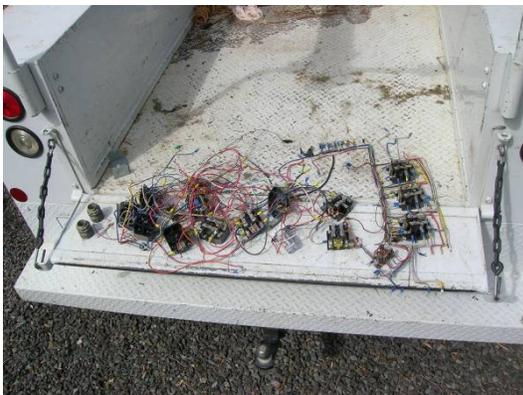
Tamarack Construction installed two additional rings on all three feed bins and two new 40 degree roofs on the middle and upper bins to accommodate a larger volume of feed. The upgrade doubled the capacity of the feed bins to approximately 20,000 pounds/bin. The expansion will greatly aid the Hatchery's capability to store and manage bulk feed orders during peak production periods.



Transport Trailers

The Hatchery simplified the transport trailer alarm systems before the BY2008 distribution. This greatly reduced the number of wires and relays that could fail. The Hatchery also acquired another transport trailer (#199) from Magic Valley Fish Hatchery to incorporate into the Hatchery's fleet.

Old Alarm System Parts



Trailer #199 from Magic Valley Fish Hatchery



OTHER ITEMS OF INTEREST

Traffic Plan



The Hatchery began implementation of a traffic plan to exclude vehicular traffic from passing through the Hatchery's administrative site. The Hatchery took this action to ensure biosecurity for the fish production and safety of its employees, resident families, and visitors as well as to assist the University with control of its traffic. The University signed an MOU with the Service in 1999 agreeing to cease using the Hatchery's main entrance and use the deeded right of way provided by the Service. In preparation for this action, the Hatchery sent letters to the Hagerman Fish Culture

Experiment Station, University of Idaho; the Post Master, Hagerman Post Office; and notified the local offices of the United Parcel Service and FedEx. The road closure took effect on January 1, 2009.

Road Safety Audit

In an effort to begin the process of developing a long range traffic management plan for the Hatchery, a multi-disciplinary team representing the Western Lands, Federal Roads Division, Federal Highway Administration conducted a Road Safety Audit (RSA) at the Hatchery. An RSA "*qualitatively estimates and reports on potential road safety issues and identifies opportunities for improvements in safety for all road users.*" The three-day audit consisted of a "kick-off" meeting, site review, and a "wrap-up" meeting. In addition to Hatchery staff and a Region 1 Safety Office representative (Bob VanBuskirk), the participants included: University of Idaho, Idaho Department of Fish and Game, and Sea-Pac of Idaho, all of which are permittees having right of way to cross Service lands at the Hatchery. The RSA report made several suggestions for improving signage and roadways on the Hatchery property and has recommended a Traffic Safety Audit.

Biosecurity and Fish Health

The Hatchery attended a Bio-Security Workshop at the University of Idaho, Hagerman Fish Culture Experiment Station. The Hatchery will be working to develop a comprehensive Bio-Security plan for the facility in FY2010.

Nucleospora salmonis (NS) continues to turn up frequently during Fish Health checks and has also been found at the Hagerman State Fish Hatchery. The Hatchery attended a NS workshop at the Eagle Fish Health Lab to discuss future research of NS issues.

Shoshone Sculpin Sampling

In April, Jeff Stephenson, Columbia River Inter-Tribal Fish Commission, placed minnow traps in Bickel, Riley, and Len Lewis springs to test trapping efficiency of Shoshone sculpins (*Cottus greenei*). Single overnight trap sets caught 46 sculpins in Len Lewis Spring and 179 sculpins in Bickel Spring. Jeff trapped Riley Spring for 6 hours with one trap and captured 139 sculpins. Shoshone sculpins are only endemic to springs around the Hagerman valley and are considered “rare” and a species of special concern by the Idaho Chapter of the American Fisheries Society

As a follow-up to Jeff Stephenson’s work, Matt Campbell and Kevin Meyer, Idaho Department of Fish and Game, along with Rick Wilkison, Idaho Power, and their respective staff, trapped Shoshone sculpins from Bickel Spring for genetic and population estimate work in May. The sculpins were marked with fin hole punches for the mark-recapture estimate. The group estimated a population of 2,500 Shoshone sculpins in Bickel Spring.



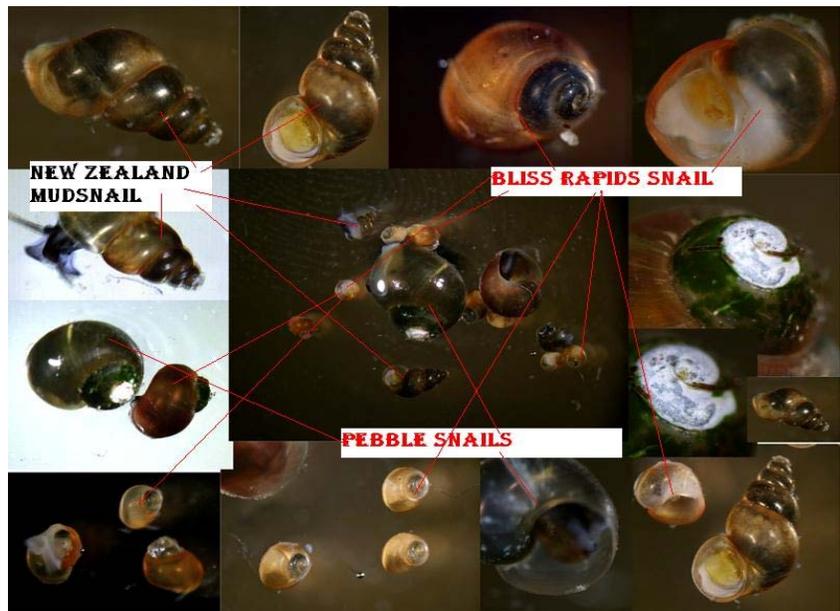
In June, Matt Campbell, Idaho Department of Fish and Game, conducted additional Shoshone sculpin sampling in Len Lewis Spring. The trapping effort collected less than 50 individuals.

In conjunction with this project, Kathy Clemens, Idaho Fish Health Center, sampled 25 Shoshone sculpins for routine fish health diagnostics and *Nucleospora salmonis* (*NS*). Kathy found that the sculpins sampled from Riley Spring tested positive for *NS*. She also found *NS* in sculpin samples taken from Len Lewis Spring in 2007. This finding suggests sculpin populations could be a source of *NS* exposure between brood years.

Aquatic Nuisance Species

Nathan Wiese, Assistant Project Leader, attended a meeting hosted by the Idaho Department of Agriculture regarding new rules governing Aquatic Nuisance Species in Idaho. The meeting was held at the University of Idaho, Hagerman Fish Culture Experiment Station and attended by representatives from the Idaho Department of Fish Game, the Idaho aquaculture industry, and the University of Idaho. The new rules will limit the possession and transport of Aquatic Nuisance Species which includes the New Zealand Mud Snail.

Kelly Stockton, University of Idaho graduate student, collected New Zealand Mud Snail samples for Virkon® toxicity experiments. Virkon® is a powerful multi-purpose disinfectant used to control pathogens and labeled for aquaculture use. These experiments will test the efficacy of Virkon® disinfection for New Zealand Mud Snail control. Kelly began her graduate degree work under the direction of Dr. Christine Moffitt.



Snail species at the Hatchery; Idaho Fish and Wildlife Office

College of Southern Idaho Cooperative Internship Agreement

Miles Mullenix was selected as the College of Southern Idaho student intern during the summer and continued on into the Fall 2009 semester.

Water Master Field Day

The Hatchery hosted a Water Master field day in cooperation with the Idaho Department of Water Resources (IDWR) and the Hagerman Fish Culture Experiment Station. The numerous and diverse water measurement structures installed at the Hatchery provided Water Masters from the southern Idaho area an excellent opportunity to add to their knowledge and improve their water management skills. Nathan Wiese and Eric Willet, Motor Vehicle Operator, assisted the IDWR staff with the program.

Wildland Fire Control and Suppression

The Hatchery crew assisted in initial response to a wildland fire on the boundary of Service and IDFG on the Hagerman Wildlife Management Area properties on May 6th. The fire escaped during ditch burning operations conducted by IDFG technicians. Fire suppression responsibilities were relinquished to the Hagerman Rural Fire Department when they arrived on the scene. Quick actions by the IDFG, Hatchery staff, and the Hagerman Rural Fire Department limited the extent of burn to less than one acre.



Outreach, Partnerships and Connecting People with Nature

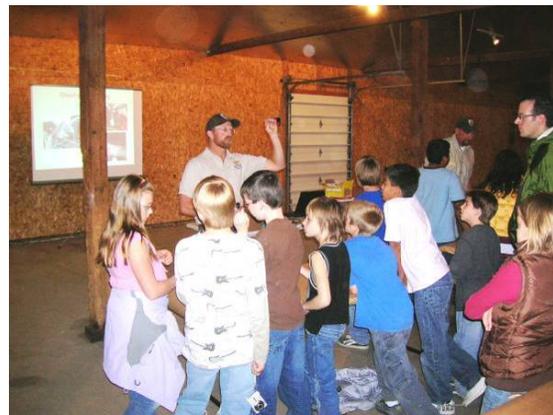
The Hatchery attended several meetings of the Thousand Springs Scenic Byway Committee hosted by the Southern Idaho Tourism group to review interpretive signs for the Byway and a design for an ADA accessible viewing blind at the Idaho Department of Transportation, Hagerman Rest Stop adjacent to the Hagerman Wildlife Management Area.

Ms. Anna Ray, Fisheries Program Assistant, led the Hatchery in a partnership with the Hagerman Fossil Beds National Monument, National Park Service, and the Thousand Springs State Park, Idaho Department of Parks and Recreation, to develop the “*Connect Students with Hagerman Resources*” program. This initiative coordinates school group tours among the three partners. A tri-fold brochure was distributed to local school districts to inform them of the year-round availability of Connecting People With Nature (CPWN) options which is designed to meet the Idaho Teaching Standards. The Hatchery received CPWN small grant monies to assist local schools with transportation costs for field trips to participate in the program.

The Hatchery participated in numerous CPWN activities in FY 2009. Hatchery staff and volunteers worked 192 hours towards CPWN activities reaching over 2700 individuals.



Trout dissection-Thousand Springs State Park



Filer School Dissection



Idaho Free Fishing Day



Hagerman H.A.W.K.



Bryan and Peggy Kenworthy (volunteer) staffed a display at the Minidoka National Wildlife Refuge 100 year anniversary celebration.

Hatchery Hosts

Summer Volunteer Hosts, Paul and Judy Price, volunteered 1,043 hours during the summer. Paul has a major as a Chemical Engineer and a Minor in Landscape Architecture. He has worked as an aid to Congressman James Battim, Montana; various National offices as Director and Government Affairs resulting in sponsorship of Montana & National Stream Preservation bills; and Strip Mining reclamation bills, Missoula Ice Age Flood Institute, etc. He is a retired railroad engineer. Judy is a retired accountant/bookkeeper who can speak French. She is originally from Canada. Paul and Judy were a great addition to the Hatchery over the summer and will be missed!



Paul and Judy and a happy tour Group



Paul explaining the hatching process

Hagerman National Fish Hatchery

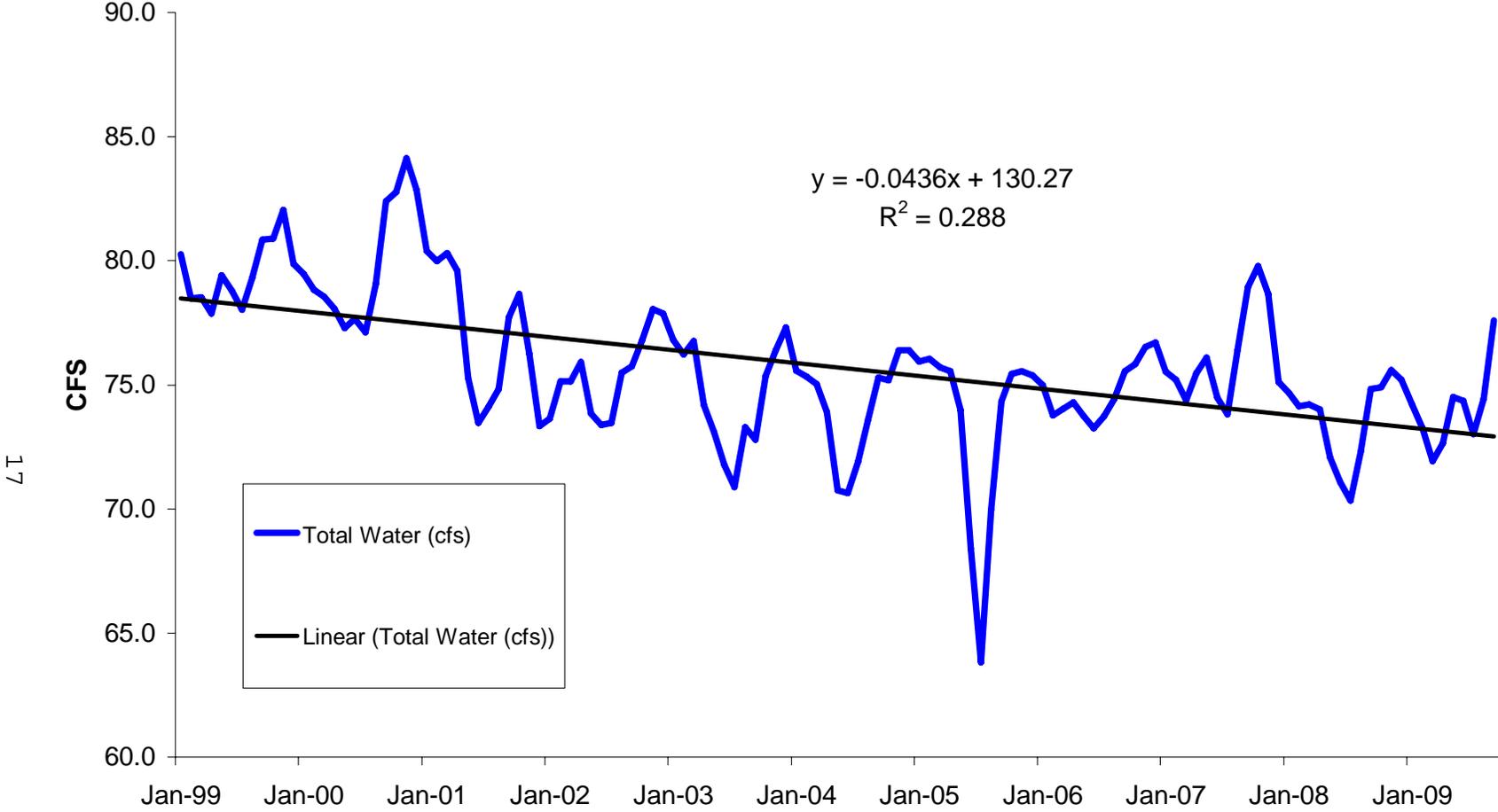


Figure 1. Average monthly spring flows tributary to Riley Creek at Hagerman NFH, 1999, 2009 (cfs)

Hagerman National Fish Hatchery

Table 1. Hatchery Production Summary as of September 30, 2009

Station: Hagerman National Fish Hatchery					PERIOD COVERED: Oct 1, 2008 THRU Sept 30, 2009					
Species/Strain & Lot Number	Fish on Hand:				To Date Totals:					
	Number	Weight	Length	D.I.	F.I.	Weight Gain	Feed	Feed	Conv.	Percent Survival
							Pounds	Costs		
SST-SAW-08-ID-124	0	0	0.00	0.00	0.00	220,365	230,402	\$114,787.44	1.05	94.14
SST-PAW-08-ID-125	0	0	0.00	0.00	0.00	35,751	37,771	\$17,587.75	1.06	94.68
SST-CRW-08-ID-126	0	0	0.00	0.00	0.00	31,271	36,578	\$21,512.85	1.17	81.71
SST-SAW-09-ID-128	1,365,811	26,734	3.75	0.04	0.40	26,376	25,832	\$15,736.80	0.98	96.75
SST-EFN-09-ID-129	126,224	2,064	3.54	0.03	0.40	2,023	2,445	\$1,481.01	1.21	80.64 ^a
RBT-T9-09-ID-127	43,577	19,702	9.88	0.37	0.58	25,077	24,270	\$11,110.10	0.97	96.22
Total/Averages	1,535,612	48,500	5.723	0.146	0.459	340,864	357,298	\$182,215.95	1.05	91.20

^a 23,531 EFN's died on 8/23/2009 due to a plugged hatchery pipeline. Survival without accident: 95.5%.

Hagerman National Fish Hatchery

Table 2. Eyed eggs received at Hagerman NFH during Fiscal Year 2009

Species	Stock	Lot No.	No. Eggs	% Survival to Hatch
Rainbow Trout	Hayspur T9 Triploid	RBT-T9-09-ID (Lot 127)	149,190	92.6%
			Total	
			149,190	
Steelhead	Sawtooth ¹	SST-SAW-09-ID (Lot128)	1,458,875	98.2%
Steelhead	East Fork Naturals ²	SST-EFN-09-ID (Lot 129)	168,160	97.0%
			Total	
			1,627,035	

¹ Spawned and incubated at Sawtooth Fish Hatchery.

² Adults trapped at East Fork weir and eggs incubated at Sawtooth Fish Hatchery.

Hagerman National Fish Hatchery

Table 3. Steelhead Distribution During Fiscal Year 2009

Lot / Strain	Type of release	River/Site	Weight (lbs)	Number	#/lb	Length		Date(s)
						in	mm	
<u>124 SST-SAW-08-ID</u>								
		<u>Salmon River</u>						
Sawtooth	Direct	Sawtooth Fish Hatchery Weir	175,790	754,876	4.29	8.57	218	4/16/09 - 5/05/09
Sawtooth	Direct	Yankee Fork	66,265	294,050	4.44	8.47	215	5/06/09 - 5/13/09
<u>125 SST-PAW-08-ID</u>								
		<u>Little Salmon River</u>						
Pahsimeroi	Direct	Little Salmon River @ Stinky Springs	31,630	148,493	4.69	8.32	211	3/30/09 - 4/08/09
Pahsimeroi	Direct	Lower Hazard Creek	10,785	51,797	4.80	8.26	210	4/03/09
<u>126 SST-CRW-08-ID</u>								
		<u>Little Salmon River</u>						
Clearwater	Direct	Little Salmon River @ Stinky Springs	18,945	86,196	4.55	8.41	214	4/08/09 - 4/10/09
		<u>East Fork Salmon River</u>						
Clearwater	Direct	Lower East Fork	18,360	84,898	4.62	8.36	212	4/13/09 - 4/14/09
Total			321,775	1,420,310				

Hagerman National Fish Hatchery

Table 4. Rainbow Trout Distribution During Fiscal Year 2009

Lot / Strain	Reservoir	Site	Weight (lbs)	Number	Length (in)	Date(s)
Lot 123 RBT-T9-08-ID	Chesterfield Reservoir	Boat Launch	10,775	27,161	9.45	9/30/08-10/02/08
Lot 123 RBT-T9-08-ID	Salmon Falls Reservoir	Dam	5,160	14,356	9.14	10/03/08
Lot 127 RBT-T9-09-ID	Salmon Falls Reservoir	Dam	5,410	89,342	5.48	5/27/08-5/28/09
Total			21,345	130,859		

21

Hagerman National Fish Hatchery

Table 5. Report of Station Personnel During Fiscal Year 2009

Part I - Permanent Personnel (FTE=s: 8.0)				
Name of Employee	Functional Title	Grade	Period Worked	Remarks
Bryan R. Kenworthy	Project Leader Fish Biologist (Supervisory)	GS0482/13/06	10/01/2008 - 09/30/2009	
Nathaniel J. Wiese	Fish Biologist (Supervisory)	GS0482/11/03	10/01/2008 - 09/30/2009	
Brian P. Clifford	Motor Vehicle Operator	WG5703/08/05	10/01/2008 - 09/30/2009	
Adam Leija	Animal Caretaker	WG5048/03/03	10/01/2008 - 09/30/2009	
Stephen W. Money	Maintenance Mechanic	WG4749/10/05	10/01/2008 - 09/30/2009	
Anna M. Ray	Fisheries Program Assistant	GS0303/06/07	10/01/2008 - 09/30/2009	
Jeremy E. Trimpey	Fish Biologist	GS0482/09/01	10/01/2008 - 09/30/2009	
Eric W. Willet	Motor Vehicle Operator	WG5703/06/05	10/01/2008 - 09/30/2009	
Part II - Temporary Personnel (FTE=s: 0.0)				

Hagerman National Fish Hatchery

Table 6. Personnel Training during Fiscal Year 2009

Brian Clifford:

Heartsaver First Aid Refresher, Keys to CPR 11/2008
Retirement Planning for New Employees / NPS Tel Event / Hagerman, ID 12/17/2008
2009 Discrimination & Whistleblowing in the Workplace / DOI Learn 03/20/2009
2009 Federal Information Systems Security Awareness / DOI Learn 03/20/2009
HNFH Annual Safety Plan Review / HNFH 03/26/2009
2009 Orientation to the Privacy Act / DOI Learn 04/15/2009
2009 Records Management Awareness / DOI Learn 04/15/2009
Wage Grade Conference / Reno, NV 05/18-22/2009

Bryan Kenworthy:

Heartsaver First Aid Refresher, Keys to CPR 11/2008
Personal Property Accountable/Custodial Officer Training, WebX from PDX @ HNFH 03/26/2009
HNFH Annual Safety Plan Review / HNFH 03/26/2009
2009 Discrimination & Whistleblowing in the Workplace / DOI Learn 04/15/2009
2009 Federal Information Systems Security Awareness / DOI Learn 06/05/2009
2009 Orientation to the Privacy Act / DOI Learn 06/05/2009
2009 Records Management Awareness / DOI Learn 06/05/2009
NPS-Fundamentals III (ver.2) / DOI Learn 09/23/2009
Diversity Awareness and Skills for NPS Supervisors / DOI Learn 09/29/2009

Hagerman National Fish Hatchery

Table 6. cont. Personnel Training during Fiscal Year 2009

Adam Leija:

Heartsaver First Aid Refresher, Keys to CPR 11/2008
Retirement Planning for New Employees / NPS Tel Event / Hagerman, ID 12/17/2008
New Employee Orientation, NCTC
Cold Water Fish Culture, NCTC 02/23-03/06/2009
2009 Discrimination & Whistleblowing in the Workplace / DOI Learn 03/19/2009
2009 Federal Information Systems Security Awareness / DOI Learn 03/19/2009
HNFH Annual Safety Plan Review / HNFH 03/26/2009
2009 Orientation to the Privacy Act / DOI Learn 04/7/2009
2009 Records Management Awareness / DOI Learn 04/7/2009
Spawning Detail at Sawtooth Fish Hatchery 04/22-23/2009
NCTC Powered Industrial Truck Safety Training for Class 5 Forklift Certification 04/28/2009

Stephen Money:

Heartsaver First Aid Refresher, Keys to CPR 11/2008
Personal Property Accountable/Custodial Officer Training, WebX from PDX @ HNFH 03/26/2009
HNFH Annual Safety Plan Review / HNFH 03/26/2009
2009 Discrimination & Whistleblowing in the Workplace / DOI Learn 04/1/2009
2009 Federal Information Systems Security Awareness / DOI Learn 04/1/2009
2009 Orientation to the Privacy Act / DOI Learn 04/1/2009
2009 Records Management Awareness / DOI Learn 04/1/2009
Wage Grade Conference (Committee) / Reno, NV 05/17-22/2009

Hagerman National Fish Hatchery

Table 6. cont. Personnel Training during Fiscal Year 2009

Anna M. Ray:

Heartsaver First Aid Refresher, Keys to CPR 11/2008
Contracting & General Services Training, PDX 02/24-26/2009
2009 Discrimination & Whistleblowing in the Workplace / DOI Learn 03/23/2009
2009 Federal Information Systems Security Awareness / DOI Learn 03/23/2009
Personal Property Accountable/Custodial Officer Training, WebX from PDX @ HNFH 03/26/09
HNFH Annual Safety Plan Review / HNFH 03/26/2009
2009 Orientation to the Privacy Act / DOI Learn 04/15/2009
2009 Records Management Awareness / DOI Learn 04/15/2009

Jeremy Trimpey:

Heartsaver First Aid Refresher, Keys to CPR 11/2008
Retirement Planning for New Employees / NPS Tel Event / Hagerman, ID 12/17/2008
Internet Web Site Development for Fish and Wildlife Information, NCTC 03/2-6/2009
2009 Discrimination & Whistleblowing in the Workplace / DOI Learn 03/20/2009
2009 Federal Information Systems Security Awareness / DOI Learn 03/20/2009
HNFH Annual Safety Plan Review / HNFH 03/26/2009
2009 Orientation to the Privacy Act / DOI Learn 04/7/2009
2009 Records Management Awareness / DOI Learn 04/9/2009

Hagerman National Fish Hatchery

Table 6. cont. Personnel Training during Fiscal Year 2009

Nathaniel Wiese:

Heartsaver First Aid Refresher, Keys to CPR 11/2008
Personal Property Accountable/Custodial Officer Training, WebX from PDX @ HNFH 03/26/2009
HNFH Annual Safety Plan Review / HNFH 03/26/2009
2009 Discrimination & Whistleblowing in the Workplace / DOI Learn 04/7/2009
2009 Federal Information Systems Security Awareness / DOI Learn 04/7/2009
2009 Orientation to the Privacy Act / DOI Learn 04/7/2009
2009 Records Management Awareness / DOI Learn 04/7/2009
Diversity Awareness and Skills for NPS Supervisors / DOI Learn 09/17/2009
NPS-Fundamentals III (ver.2) / DOI Learn 09/23/2009
NPS-Fundamentals IV (ver.2) / DOI Learn 09/29/2009

Eric Willet:

Heartsaver First Aid Refresher, Keys to CPR 11/2008
2009 Discrimination & Whistleblowing in the Workplace / DOI Learn 03/23/2009
2009 Federal Information Systems Security Awareness / DOI Learn 03/23/2009
HNFH Annual Safety Plan Review / HNFH 03/26/2009
2009 Orientation to the Privacy Act / DOI Learn 04/8/2009
2009 Records Management Awareness / DOI Learn 04/14/2009
Wage Grade Conference / Reno, NV 05/18-22/2009

Hagerman National Fish Hatchery

Table 7a. LSRCP Funding Fiscal Year 2009

		Comments
<u>14230-1936-0300:</u>		
Salaries, OT, Awards, Benefits	\$593,820	
Travel/Tuition	\$19,813	
Utilities	\$17,988	
Steelhead Fish Food	\$141,177	
Distribution	\$33,142	
Production Expense	\$17,770	
Repairs & Maintenance	\$39,207	
Idaho Power <i>Easy Upgrades</i> incentive reimbursement	-\$1,836	
Fuels & Oils	\$13,752	T12 to T8 lighting upgrades includes distribution fuels
Office Admin/Misc. Services	\$18,167	
CSI Coop. Agreement	\$5,072	
Outreach / Volunteers	\$6,465	
<i>Total 1936-0300 Expenses:</i>	<i>\$904,537</i>	

Hagerman National Fish Hatchery

Table 7a. LSRCP Funding Fiscal Year 2009 (continued)

		Comments
<u>Other Funding Sources:</u>		
Dworshak Mitigation RBT 14230-1932-1019	\$37,500	
MVFN distribution contract 14230-1936-0021	\$109,463	10181-6-M231
Quarters Funding 14230-8610-0000	\$555	\$22,476 Forward to FY2010
WUI Disc Fire Line 14610-9264-1953	\$510	
LSRCP year-end purchases 14110-1936-xxxx	\$1,083	
CPWN Grant: Free Fishing Day 10102-1113-1035	\$800	
CPWN Grant: Busing 10102-1936-0200	\$900	Hagerman IDEA Agreement
CPWN Grant: Canopies 10140-1311-0000	\$1,500	
Total Other Funding Source Expenses:	\$152,311	
TOTAL:	\$1,056,848	

Hagerman National Fish Hatchery

Table 7b. Capital Improvement Projects Fiscal Year 2009

		Comments
<u>14230-1936-0300:</u>		
Used CAT backhoe	\$39,500	10181-9-M201
Transport Trailer #199 rehab	\$19,670	
Transport Trailers #319 & #469 inspect/repair	\$32,015	10181-9-M027
Feed Bin Expansion	\$12,202	
<i>Total 1936-0300 CIP Expenses:</i>	\$103,387	
<u>Other Funding Sources:</u>		
Transport Trailer #199 inspect/repair 14110-1936-0014	\$16,007	10181-9-M542
Transport Trailer #199 alum. wheels 14110-1936-0015	\$2,715	10181-9-M542
Road Safety Audit		
<i>Total Other Funding CIP Expenses:</i>	\$18,722	
TOTAL:	\$122,109	