



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Hagerman National Fish Hatchery
3059 D National Fish Hatchery Road
Hagerman, Idaho 83332

MEMORANDUM

August 20, 2007

TO: ARD-Fisheries
Attn: Rich Johnson, Field Supervisor

FROM: Project Leader, Hagerman NFH

SUBJECT: July Activity Report

PRODUCTION

Steelhead Brood Year 2007

Lot Number	Stock	Number	Total Fish Weight	Size (#/lb)	Length (inches)
120	Sawtooth	1,071,221	7,003	153	2.60
121	Pahsimeroi	195,914	1861	105	2.95
122	Clearwater B	192,945	1827	105	2.95

The steelhead are on schedule for clipping on August 6th. The Idaho Department of Fish and Game will run three MATS trailers on double-shifts during weekdays and single shifts on the weekends. They anticipate clipping and coded wire tagging will be finished by August 13th.

Rainbow Trout (Dworshak Reservoir Mitigation)

Lot Number	Stock	Number	Total Fish Weight	Size (#/lb)	Length (inches)
118	Hayspur KT Rainbows	0	0	0	0
119	Hayspur KT Rainbows	42,249	5,447	7.8	6.50

The Hatchery treated Lot 119 with formalin as prescribed by Kathy Clemens, Idaho Fish Health Center, to reduce a high prevalence of the external parasites Gyrodactylus and Costia. The flow-through treatment lasted one hour at 167 ppm. Mortalities did not begin to decrease until three weeks after the treatment.

Laura Hawn, Idaho Fish Health Center, conducted a post-treatment fish health check on the Rainbow trout; no further treatments were recommended. The Hatchery will release Lot 119 in

Mid-September. Laura also conducted routine monitoring of the Brood Year 2007 steelhead; no issues were identified.

OPERATIONS

The Hatchery replaced the middle deck damboards in the steelhead raceways. The Hatchery also made repairs on the bird netting and screen channels in preparation for watering-up the steelhead raceways.



A mid-summer house cleaning has resulted in a number of Hatchery items being excessed as surplus property. Currently, there are 14 items listed on “GSA Auctions” for sale to the general public.

Jordan Nielson and Kala Hamilton, University of Idaho students, spent 4 weeks testing a Hydrocyclone® filter for its potential to remove New Zealand Mudsnails (NZMS) from the Hatchery supply water. The students conducted tests to determine the particle transit time using NaCl, and also three different life stages (particle sizes) of NZMS. The Hydrocyclone recovered all the adult and juvenile mudsnails introduced into the system, but only of 53% of the neonates (NZMS offspring) were recovered. Despite the problems recovering neonates, no adult, juvenile, or neonate mudsnails were observed in the filtered water, indicating a promising filtration strategy. The students also monitored the quantity and consistency of snail drift into the system. Preliminary results indicate drift was positively correlated with lunar cycle and increased during nighttime hours. They plan on conducting follow-up tests in October. Dr. Barnaby Watten, Leetown Science Center USGS, assisted in the design of the test system and serves as an engineering consultant on the project.



Hydrocyclone at Main Spring



Collecting NZMS from Hydrocyclone

COORDINATION

Bryan Kenworthy, Project Leader, met with representatives of the South Central Idaho Interagency Dispatch Center(SCIIDC), Bureau of Land Management (BLM), concerning the Annual Operating Plan and to sign the Cooperative Agreement for wildland fire protection. BLM administrators are planning to establish a fee schedule for participating agencies which would be billed at year-end. In lieu of funding, the Hatchery has arranged with the SCIIDC to provide in-kind services in the form of a TDY work detail at the dispatch center. Anna Ray, Fisheries Program Asst., participated in a one day detail for the Jim Sage fire as a part of the graveyard-shift dispatch team. To-date, the USFWS in-kind value from this detail is \$234.52.

Cal Frazer, Fish Biologist, Bozeman Technology Center, demonstrated a total dissolved gas meter for measuring saturation conditions of Hatchery water supplies. The unit has been beneficial at Bozeman for monitoring super-saturation conditions. The Hatchery is interested in testing the unit to monitor gas saturation during fish transport.

Bryan Kenworthy, Nathan Wiese, Assistant Project Leader, and Anna Ray participated in a SAMMS/RPI conference call.

Nathan Wiese participated in several conference calls with Jordan Nielson, Christine Moffitt, University of Idaho, and Barnaby Watten regarding the NZMS Hydrocyclone trials.

Nathan Wiese gave a tour to Neil Farmer, Hydrologist, Idaho Department of Water Resources (IDWR). The IDWR is studying the hydrogeology of the Thousand Springs Reach to identify potential aquifer underflow sites. IDWR will be looking at the feasibility of using such sites as well locations. These wells may be used to mitigate partial spring flow loss in the Thousand Springs reach.

Bryan Kenworthy and Nathan Wiese met with Rich Johnson in Boise to discuss water issues at the Hatchery and to prepare for the Fisheries and Ecological Services Coordination meeting.

PERSONNEL/TRAINING/SAFETY

Nathan Wiese completed the web-based Purchase Training and Approving Official Training for the U.S. Department of the Interior Integrated Charge Card Program.

The Hatchery celebrated the wedding of Nathan Wiese to his fiancée, Amber, in Hagerman. The newlyweds have forgone their honeymoon in favor of taking Amber on her first-ever big game hunt for an eastern Idaho moose in September. Amber drew the tag.



Watch out Bullwinkle!

OUTREACH

The Hatchery conducted two scheduled tours for the Hailey & Sun Valley Summer Kids Camp and the Twin Falls Safe Kids for a total of 35 visitors.

The Hatchery had 423 registered visitors and 6 guests, for a total of 464 visitors during July.

MAINTENANCE

- Purchased lawn aerator for grasshopper mower
- Built new jump screens for Hatchery 1 tanks
- Flipped axle and installed new jacks on E-1 Fish Pump
- Vendor inspected electrical controls on the Mixing Chamber valve
- Installed aluminum rims on the three fish transport tankers
- Welded screen channels in Steelhead Raceways
- Installed weatherproof box at Len Lewis spring for YSI meter used in NZMS study
- Set up Hydrocyclone piping
- Cleaned sump pump in Q-4 basement
- Installed new alternator on JD 332 mower
- Installed new battery on Bobcat welder/generator
- Installed new faucet in visitor center men's restroom
- Installed new faucet in Administration building
- Modified the off-line settling basin dewatering sump pump unit to facilitate dewatering of pond
- Installed new backup batteries in security systems