



# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Dworshak Fisheries Complex  
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## MEMORANDUM

To: Fisheries Supervisor, Columbia Basin Ecoregion  
Region 1, Portland, OR

From: Complex Manager  
Dworshak Fisheries Complex

Subject: Dworshak Production Narrative, November, 2008

### SPRING CHINOOK SALMON (SCS)

#### **Brood Year 2007 (BY07)**

At the end of the month there were 1,028,934 BY07 SCS averaging 31 fish per pound (fpp) and 121 mm (4.8 inches) total length on station (Table 1). These fish are being held in A and B-Bank raceways (RW's). Mortality for the month averaged 0.06 percent.

Table 1. BY2007 SCS inventory summary (11/30/08).

Stock	Number	Wt (lb)	fpp	L in	L mm	Lgth/mm	Wt(lb) Gain/Mo
Dworshak	1,028,934	33,246	30.9	4.8	121	7	5,527

Water temperature averaged 47.8°F and flow averaged 500 gpm/RW.

On November 12 a formalin treatment was given to all BY07 SCS to control *Trichodina Sp.*

#### **Brood Year 2008**

At the end of the month there were 371,084 eyed eggs of Dworshak stock incubating at Dworshak National Fish Hatchery (DNFH). Chilled incubation water temperature for the month averaged 36.7°F and the SCS are currently targeted to go on feed in April, 2008. There were also 820,000 eyed eggs of Dworshak stock transferred to Kooskia NFH in October for incubation over the winter.

### COHO SALMON (COS)

#### **Brood Year 2007**

At the end of November there were 285,780 BY07 COS averaging 22 fpp being reared in C-bank RWs. Mortality for the month averaged 0.3 percent.

**Brood Year 2008**

Spawning of BY08 Coho ended on November 12 with a total of 461 females being spawned by that date. These eggs are incubating in C and D-bank incubators at Dworshak. At the request of Zach Penny the incubation temperature was slowly increased from 44.6°F to 53.8°F from November 18-22.

**SUMMER STEELHEAD (SST)**

**Brood Year 2008**

Overall, mortality dropped off significantly in November in the SST. However, due to the high mortality throughout the summer and fall as a result of Infectious Hematopoietic Necrosis Virus and Cold Water Disease, the 2.1 million target release number for SST will not be met in the spring of 2009.

Table 2 illustrates the number of BY08 SST on station at the end of the month and the projected release numbers in the spring of 2009.

Table 2. BY08 SST on station and projected release size and numbers from 11/30/08.

End of Month Data					3 Yr Ave Lgth (mm) Month End NOV	Projected Release April 2009		
System	Number	Weight (lbs)	fpp	Lgth (mm)		Proj % Mortality until Release	Proj Release Number	Proj Release Size (mm)*
Syst I	705,065	49,125	14.4	148	143	5	669,812	197
Syst II	647,280	66,485	9.7	169	160	6	608,443	216
Syst III	477,579	66,058	7.2	186	176	7	444,148	220
<b>Total/ Ave</b>	<b>1,829,924</b>	<b>181,668</b>	<b>10.1</b>	<b>167</b>		<b>6.0</b>	<b>1,722,403</b>	<b>210</b>

\*Reuse on January-March System I and II.

**System I**

By the end of the month there were 705,065 SST in System I averaging 14 fpp and 148 mm (5.8 inches) total length (Table 3). Mortality for the month was 0.2 percent.

Table 3. BY2008 SST System I inventory numbers (11/30/08).

Rearing Unit	Number	Wt (lbs)	fpp	L in	L mm	Lgth/mm Gain/mo	Wt (lbs) Gain/mo
BPs	705,065	49,125	14.4	5.8	148	17	14,649

Water temperature averaged 48.7°F and flow averaged 550 gpm/BP.

There were no medical or chemical treatments given to these fish during the month.

**System II**

By the end of the month there were 647,280 SST in System II averaging 9.7 fpp and 169 mm (6.6 inches) total length (Table 4). Mortality for the month was 0.8 percent.

Table 4. BY08 SST System II inventory numbers (11/30/08).

Rearing Unit	Number	Wt (lbs)	fpp	L in	L mm	Lgth/mm Gain/mo	Wt (lbs) Gain/mo
BPs	647,280	66,485	9.7	6.6	169	14	14,890

Water temperature averaged 47.8°F and flow averaged 460 gpm/BP.

On November 5 a formalin treatment was administered to all of System II to control *Ichthyophthirius multifiliis* (ICH).

### System III

By the end of the month there were 477,579 SST in System III averaging 7.2 fpp and 186 mm (7.2 inches) total length (Table 5). Mortality for the month was 1.1 percent.

Table 5. BY08 SST System III inventory numbers (11/30/08).

Rearing Unit	Number	Wt (lbs)	fpp	L in	L mm	Lgth/mm Gain/mo	Wt (lbs) Gain/mo
BPs	477,579	66,058	7.2	7.3	186	12	11,552

Water temperature averaged 48.7°F and flow averaged 506 gpm/BP.

There were no medical or chemical treatments given to these fish during the month.

## RAINBOW TROUT (RBT)

### *Brood Year 2008 done*

By the end of the month there were 12,428 BY08 RBT in System III averaging 3.9 (fpp) and 220 mm (8.7 inches) total length (Table 6). Mortality for the month was 1.4 percent.

Table 6. BY2008 RBT inventory numbers (11/30/08).

Rearing Unit	Number	Wt (lbs)	fpp	L in	L mm	Lgth gain/in
BP 60 (Diploid)	9,579	2,303	4.2	8.4	214	0.6
BP 62 (Triploid)	2,849	925	3.1	9.3	237	1.0
Total/Ave	12,428	3,228	3.9	8.7	220	

Water temperature averaged 47.8°F and water flow was 500 gpm/BP.

The RBT in Burrow Pond (BP) 60 are diploid fish from Ennis Montana. The mortality for these fish during the month was 0.6 percent. The RBT in BP 62 are triploid fish from Hayspur, Idaho. The mortality for these fish during the month was 2.9 percent. These fish have been diagnosed with *Infectious Hematopoietic Necrosis Virus* (IHNV).

There were no medical or chemical treatments given to these fish during the month.

These RBT will be for Open House 2009.

### SUMMARY

Table 7. Total Production—Fish on Station (11/30/08).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
COS	07	C-Bank RWs	285,780	12,997	22.0	5.1	129
RBT	08	BP 60 & 62	12,428	3,228	3.9	8.7	220
SCS	07	A Bank RWs	1,028,934	33,246	30.9	4.8	121
SST	08	System I	705,065	49,125	14.4	5.8	148
SST	08	System II	647,280	66,485	9.7	6.6	169
SST	08	System III	477,579	66,058	7.2	7.3	186
<b>Total</b>			<b>3,157,066</b>	<b>231,139</b>			

  
Larry Peltz  
Complex Manager

Dworshak NFH  
Dworshak Production (2)  
Kooskia NFH  
Idaho FRO  
Idaho FHC  
LSRCP - Boise  
IDFG - Boise & Lewiston  
Nez Perce Tribe - Fisheries