

# Final Report of DNA Stock Composition of Catch and Release Chinook Salmon in the 2006 WCVI Troll Fishery

## Background

### *Stock Composition Estimates*

DNA can provide information on stock group specific impacts of the WCVI troll fishery. This is important for managing the WCVI troll fishery since limited coded wire tag (CWT) information exists for non-summer portions of the year. In response to domestic conservation requirements in recent years, the WCVI troll fishery has shifted slightly compared to the Pacific Salmon Commission (PSC) Chinook model base period (1979-82). During the base period, fishery impacts occurred mainly from March to October, whereas recently, fishery impacts have shifted away from summer months to avoid weak stocks, and expanded further into the winter months. Additionally, catches are currently considerably lower than they were during the base period. Consequently, the current impacts of the WCVI troll fishery as determined by the PSC Chinook model (using CWT data from the base period) may not be comparable. The US considers the potential impacts of such a change in fishing patterns to be a concern, particularly since some stock groups may be disproportionately impacted. In addition, the relatively low numbers of CWT recovered by the Mark Recovery Program (MRP) may not be sufficient to accurately identify fishery impacts from the smaller catches characteristic of winter fishery openings, especially on the monthly time scale required. The use of DNA methods provides an independent means of evaluating the impact of this fishery on chinook stocks, and is used to supplement the CWT information to provide the best available estimate of impact on stocks. In addition, WCVI troll fishery planning for Chinook requires that management objectives for weak stocks are met using limited CWT and DNA information. This project provides improved information for evaluating current impacts and avoiding future impacts on weak stocks, thereby achieving conservation objectives of the PST while minimizing economic disruption associated with elimination of fisheries.

### *Baseline comparison*

Prior to January 2006, a DNA baseline developed by Pacific Biological Station (PBS) Molecular Genetics Lab staff ('DFO baseline') was used to analyse all Chinook DNA samples. From January 2006 to December 2006, a baseline developed by the Chinook Technical Committee (CTC), was used to analyse samples. This CTC baseline contains a greater number of US populations than does the DFO baseline, making it a more appropriate choice for use in international management. The CTC baseline is based on thirteen microsatellite loci surveyed in approximately 25,000 chinook from 181 populations ranging from Russia and Alaska to California. The DFO baseline, which is still used for domestic purposes, is also based on thirteen (some differing) microsatellite loci surveyed in 45,000 chinook from 270 populations from a similar geographic range, but with a greater emphasis on Canadian stocks. A component of this project involved analysing the samples that will enable a comparison of the accuracy of the DFO and CTC baselines using known origin samples.

### *Combined DNA and CWT Stock Composition Data*

During previous years of sample collection, DNA was collected only from the wild (unmarked) portion of the catch. Stock composition data from DNA was combined with stock composition data derived from CWT recoveries (collected from adipose fin clipped (AFC) fish) to provide an

overall stock composition of the total catch. In the process of analysing these data, it became apparent that unassociated marked releases from US hatcheries were not able to be accounted for in the overall stock composition of the WCVI troll fishery catch. The problem is that these marked (AFC only, no CWT) fish are not associated with a CWT marked release group, making it impossible to expand for these releases using our MRP database. The numbers of unassociated, mass marked fish are substantial; approximately 30-40% of all AFC fish released from US hatcheries are unassociated with a CWT release group. Thus, in order to provide estimates of stock composition over the entire chinook catch, this project involved sampling DNA from a random sub-sample of the entire chinook catch: (1) AFC, no CWT, (2) AFC with CWT, (3) no AFC, no CWT, and (4) no AFC with CWT, within each strata and for each month.

## **Project Objectives**

The program objectives were to:

- 1) Determine the stock composition of WCVI troll chinook fisheries using DNA analysis techniques:
  - This provides the information required to determine the accuracy and precision of harvest rate indices produced by PSC Chinook Model, through comparison of model based results with DNA based results.
  - This also provides an improved information base for managing the fishery around stocks of concern.
- 2) Analyse the samples that would allow a comparison of the accuracy of the DFO and CTC DNA baselines in identifying a set of known origin samples from both Canadian and US stocks.
- 3) Validate estimates of stock composition derived from CWT and DNA based estimates to provide an overall estimate of stock composition (wild and hatchery stocks combined) for years when only unmarked (“wild”) chinook were sampled for DNA.

## **Project Description / Deliverables**

While this project was undertaken, a major change to the sampling regime occurred as a result of the transfer of the Mark Recovery Program (MRP) operation from DFO Stock Assessment Division (StAD) staff to a consultant, J.O. Thomas and Associates, Ltd (JOT). This change led to significant changes to the sample and data collection, but has not compromised the representativeness of samples or estimates of stock composition.

From January 2006 to August 2006, DNA sampling was conducted by DFO StAD staff in conjunction with the MRP. DNA samples were collected in individual vials, and were associated with a mark type (adipose fin clipped (AFC), or non-AFC), scale sample, and CWT presence/absence. For Chinook found to have a CWT, weight, length, sex, maturity, flesh color, grade, and CWT head label were also recorded.

From September 2006 to December 2006, DNA sampling was conducted by DFO StAD staff independently of the MRP. DNA samples were collected in bulk vials (one vial for AFC, one for non-AFC Chinook), and were not associated with scale samples and CWT presence/absence.

A description of the DNA sampling protocol used from January to August 2006 is as follows:

- Minimum sample size was 100 samples, or 4% (whichever was larger) of the monthly catch, in each strata (strata = NWVI and SWVI) for each month.
- Sample collection was spread out over the month as much as possible and over as many vessels as possible.
- The entire catch from a vessel was sampled (or vessels if the catch was graded and combined over strata).
- Samples were collected randomly (i.e. every  $i^{\text{th}}$  fish was sampled) and representative of catch.
- Where fish caught on more than one vessel were mixed as a result of grading (i.e. 2 boats' fish in 1 tote), these fish were sampled as long as the boats fished in the same stratum (NWVI or SWVI).
- DNA samples were collected in individual vials, and associated with a scale book and number, mark presence/absence, and head label number (if a CWT was present).
- Scales were taken from all fish sampled for DNA (except CWT fish) to determine age.

From September to December 2006, the same protocol was followed, with the exception that DNA samples were separated into two bulk vials (rather than individual vials) for each of AFC fish and non-AFC fish, for each sampling date, vessel, and PFMA.

### **Benefits**

This project relates to the harvest rate indices prescribed in the PST for chinook salmon in the WCVI AABM fishery. These are management goals based on base period fishing patterns. Regional planning processes use CWT information related to base period fishing patterns as the basis for planning. In the non-summer fishing period there are few CWT data and so planning process are compromised. The effect of changes in fishing patterns from the base period and impact on harvest rate indices is an issue. DNA information from the fisheries will improve the knowledge base more quickly than using CWT only. Increased conservation and improved fisheries management will provide potential for increased returns of stocks of concern. Increased returns will provide more rapid rebuilding. DNA information will also provide insight into the spatial and temporal distribution of various chinook stock groups, allowing fisheries to be better shaped to avoid stocks of concern.

This project will benefit the chinook stocks, the fishery managers, the fishermen, and the local WCVI communities. Chinook stocks will benefit from increased conservation and more rapid rebuilding of weaker stocks. Fishery managers will benefit through improved fisheries management information, including the ability to avoid weaker stocks. Fishers will benefit from greater fishing opportunities made possible through avoidance of weaker stocks. Rebuilding of weaker stocks will increase TAC in future years. Local WCVI communities will benefit from greater fishing activity in their areas, improving their economic outlook.

## Results

### *Stock Composition Estimates*

A total of 7204 Chinook DNA samples were collected from the WCVI troll fishery from January to December 2006 (Table 1). DNA samples were collected from 2% to 66% of the total catch (average of 17%) in each stratum (NWVI, SWVI) and month when fishery openings occurred. This does not include the intensive sampling done on the August 2006 catch from the experimental plug fishery, when 100% of the catch was sampled for CWT by MRP, and 86% of the catch was sampled for DNA. Of samples collected, the goal was to analyse samples from approximately 4% of the total catch in each catch region and month (or a minimum of 100 plugs), totalling an estimated 4500 samples for the year. Samples were selected to be representative of the catch in each Pacific Fishery Management Area (PFMA) within each catch region (NWVI, SWVI), and then rolled up to the catch region level. Of the 7204 DNA samples collected, an estimated 4433 samples were submitted to the PBS molecular genetics lab, and 4341 samples were analysed in 2006 (Table 2) at a cost of \$20 per fish. Stock composition results by month and catch region are found in Appendix 1.

Table 1. Chinook catch (preliminary), statistical areas fished, number of DNA samples collected and submitted for analysis, desired sample size, and percent of catch sampled for DNA, by month and catch region stratum (SWVI, NWVI) from January to December 2006.

Sampling Year	Sampling Month	Sampling Strata	Chinook Catch	Area Fished	# DNA Plugs Collected	Desired Sample Size	# Plugs Submitted	% of Catch Sampled
2006	Jan	SWVI	422	23	245	100	100	58%
		NWVI	1,029	126	198	100	100	19%
2006	Feb	SWVI	934	23/123	227	100	100	24%
		NWVI	4,220	126	272	169	169	6%
2006	Mar	SWVI	703	23	170	100	100	24%
		NWVI	7,180	125/126/127	770	337	337	11%
2006	Apr	SWVI	8,802	23/123	271	352	271	3%
		NWVI	11,114	125/126/127	764	445	400	7%
2006	May	SWVI	5,399	123	132	216	132	2%
		NWVI	2,222	127	34	100	0 (low N)	2%
2006	Jun	SWVI	14,229	23/123	287	569	298	2%
		NWVI	6,569	126/127	301	263	269	5%
2006	Jul	SWVI	0	<i>no fishing</i>	0	0	n/a	<i>no fishing</i>
		NWVI	0	<i>no fishing</i>	0	0	n/a	<i>no fishing</i>
2006	Aug	SWVI	203	123/124	176	100	101	87%
		NWVI	683	125/126/127	579	100	102	85%
2006	Sep	SWVI	7,624	123/124	369	305	305	5%
		NWVI	16,474	125/126/127	1051	659	660	6%
2006	Oct	SWVI	15,543	123/124	599	622	599	4%
		NWVI	483	126/127	104	100	90	22%
2006	Nov	SWVI	1,079	23/123/124	272	100	100	25%
		NWVI	111	126	0	100	0	0%
2006	Dec	SWVI	293	23/124	193	100	100	66%
		NWVI	477	25/27/126	190	100	100	40%
					<b>7204</b>	<b>5136</b>	<b>4433</b>	<b>17%</b>

Note: NWVI = Northwest Vancouver Island; SWVI = Southwest Vancouver Island

Table 2. Number of DNA samples analysed by month and catch region stratum from the 2006 WCVI troll fishery.

Sample	Year	Gear	Area	Mix Date	N	Excluded
1	2006	troll	NWVI Area126	January	100	0
2	2006	troll	SWVI Area23	January	100	0
3	2006	troll	NWVI Area126	February	166	2
4	2006	troll	SWVI Area23-123	February	99	0
5	2006	troll	NWVI Area125-127	March	316	6
6	2006	troll	SWVI Area23	March	100	0
7	2006	troll	NWVI Area125-127	April	396	2
8	2006	troll	SWVI Area23-123	April	269	1
9	2006	troll	SWVI Area123	May	132	0
10	2006	troll	NWVI Area126-126/127	June	269	0
11	2006	troll	SWVI Area23-123	June	298	0
12	2006	troll	SWVI Area123-124	August	101	0
13	2006	troll	NWVI Area125-127	August	100	0
14	2006	troll	SWVI Area123-124	September	296	0
15	2006	troll	NWVI Area125-127	September	625	3
16	2006	troll	SWVI Area123	October	585	0
17	2006	troll	NWVI Area126-127	October	90	0
18	2006	troll	SWVI Area123	November	100	0
19	2006	troll	SWVI Area23	December	99	0
20	2006	troll	NWVI Area126	December	100	0
<b>Total</b>					<b>4341</b>	<b>14</b>

### *Baseline comparison*

In addition to the 4341 DNA samples analysed for stock composition, an additional 225 samples were selected for the purpose of comparing the accuracy of the DFO versus the CTC baseline to identify known origin (those with a CWT) to the region, and possibly the stock level. Since the baselines are based on thirteen alleles, some of which differ, these tissue samples were amplified separately for each baseline. The comparison of the baselines will require further systematic analysis of the stock composition data. This work will first involve: (1) the identification of each fish using CWT tagcode information, and (2) the identification (and possible removal) of fish that are absent from one or both baselines. The accuracy comparison analysis will be conducted mainly by the PBS molecular genetics lab, and is expected to be complete by the end of July 2007.

### *Combined DNA and CWT Stock Composition Data*

A challenge discovered during a previous year of this project was the inability to expand for releases of unassociated AFC Chinook using our MRP database. This project was initially intended to involve the allocation of these unassociated AFC Chinook using expertise from US biologists. During this work, it was determined that it was not possible to associate a significant proportion of these fish. Thus, it was also not feasible to attempt the work of combining DNA and CWT stock composition data.

## Budget

The total overall allocated Southern Endowment Fund budget was \$103,000 (Canadian funds). The DFO in kind contribution was estimated at \$12,000.

Proposed and actual direct costs and DFO in-kind contributions are as follows:

<u>Direct</u>	<u>Proposed</u>	<u>Actual</u>
▪ Analysis of combined DNA and CWT data (2 staff @10 days @7.5 hr/day @\$30/day) =	\$4,500	\$0.00
▪ incremental costs of sampling over MRP (1 staff @30 days @8 hr/day day @\$25/hr) =	\$6,000	\$11,620.31
▪ DNA sampling materials =	\$1,500	\$379.69
▪ Mileage / travel expenses =	\$1,000	\$1,000
▪ DNA lab analysis for 4500 samples, including labour and supplies (4500 samples x \$20/fish) =	<u>\$90,000</u>	<u>\$90,000</u>
<b>TOTAL</b>	<b>= \$103,000</b>	<b>\$103,000</b>
 <u>DFO – In Kind</u>		
▪ project coordination, management, reporting (2 staff @20 days @7.5 hr/day @\$30/hr) =	\$9,000	
▪ Analysis of un-associated AFC Chinook (1 staff @10 days @7.5 hr/day @\$40/hr) =	<u>\$3,000</u>	
<b>TOTAL</b>	<b>= \$12,000</b>	
<b>TOTAL COSTS</b>	<b>= \$115,000</b>	

The 10% hold-back funding of \$10,300 has been included in the actual costs.

Due to the obstacles associated with the work to combine DNA and CWT stock composition data, this component of the project was not undertaken (\$4500 PSC funding). However, given the changeover of the MRP from DFO to JOT staff, these funds were required to pay for increased DNA sampling costs from September to December 2006.

Actual Southern Endowment Fund expenditures to date are detailed as follows:

### 2006-07 SOUTH COAST BUDGET LEDGER

#### DNA Based Stock Composition of Catch & Release Chinook Salmon in the WCVI Troll Fishery

Date	Supplier	Item	Cost
29-May-06	PBS DNA Lab Salaries	DNA Analysis	\$ 83,020.00
30-May-06	South Coast Staffing	Incremental DNA Sampling Costs above MRP Sampling	\$ 9,142.00
21-Mar-07	VWR Scientific Prod	DNA Sampling Equipment	\$ 379.69
			<b>\$ 92,541.69</b>

## **Appendices**

Appendix I. DNA results from the sampling of the West Coast Vancouver Island Chinook troll fishery (WCTR\_CN\_DNAdata\_Jan-Dec2006\_SEF.xls).

## **Data**

DNA results (raw data spreadsheets) are provided in hardcopy as well as on the accompanying CD.

## **Electronic Files Provided**

SEF 2006 Chinook DNA Cover Letter.doc

SEF 2006 Chinook DNA Final Rpt.doc

WCTR\_CN\_DNAdata\_Jan-Dec2006\_SEF.xls

## APPENDIX 1

DNA results from the sampling of the West Coast Vancouver Island  
Chinook troll fishery in 2006



## Inventory

Species = chinook Number of populations = 181 Baseline Description = CTC Number of loci = 13 Max missing loci = 8  
 Number of chains = 8 Number of Reps = 20000 Reps Kept = 1000

Sample	Vial ID	Year	Gear	Area	Mix Date	N	Excluded
1	06wctdfo	2006	troll	NWVI Area126	January	100	0
2	06wctdfo	2006	troll	SWVI Area23	January	100	0
3	06wctdfo	2006	troll	NWVI Area126	February	166	2
4	06wctdfo	2006	troll	SWVI Area23-123	February	99	0
5	06wctdfo	2006	troll	NWVI Area125-127	March	316	6
6	06wctdfo	2006	troll	SWVI Area23	March	100	0
7	06wctdfo	2006	troll	NWVI Area125-127	April	396	2
8	06wctdfo	2006	troll	SWVI Area23-123	April	269	1
9	06wctdfo	2006	troll	SWVI Area123	May	132	0
10	06wctdfo	2006	troll	NWVI Area126-126/127	June	269	0
11	06wctdfo	2006	troll	SWVI Area23-123	June	298	0
12	06wctdfo	2006	troll	SWVI Area123-124	August	101	0
13	06wctdfo	2006	troll	NWVI Area125-127	August	100	0
14	06wctdfo	2006	troll	SWVI Area123-124	September	296	0
15	06wctdfo	2006	troll	NWVI Area125-127	September	625	3
16	06wctdfo	2006	troll	SWVI Area123	October	585	0
17	06wctdfo	2006	troll	NWVI Area126-127	October	90	0
18	06wctdfo	2006	troll	SWVI Area123	November	100	0
19	06wctdfo	2006	troll	SWVI Area23	December	99	0
20	06wctdfo	2006	troll	NWVI Area126	December	100	0
<b>Total</b>						<b>4341</b>	<b>14</b>

### Stock Proportions

Species = chinook Number of populations = 181 Baseline Description = CTC Number of loci = 13 Max missing loci = 8  
 Number of chains = 8 Number of Reps = 20000 Reps Kept = 1000

		2006		2006		2006		2006		2006		2006	
		06wctdfo		06wctdfo		06wctdfo		06wctdfo		06wctdfo		06wctdfo	
		troll		troll		troll		troll		troll		troll	
		NWVI Area126		SWVI Area23		NWVI Area126		SWVI Area23-123		NWVI Area125-127		SWVI Area23 NWVI Area125-127	
		January		January		February		February		March		March	
		100(0)		100(0)		166(2)		99(0)		316(6)		100(0)	
		April											
		396(2)											
Code	Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
1	Alsea R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.3	(0.5)	0.0	(0.1)
2	Andrew Cr	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
4	Andrew CryH	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
5	Andrew Mach	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
6	Andrew MedH	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
7	Applegate Cr	0.0	(0.1)	0.0	(0.1)	0.6	(0.8)	0.0	(0.1)	1.3	(0.7)	0.0	(0.1)
8	Atnarko H	0.0	(0.1)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
9	Babine H	0.0	(0.1)	0.0	(0.1)	0.9	(1.0)	0.0	(0.1)	0.3	(0.4)	0.0	(0.1)
10	Battle Cr	2.6	(4.5)	0.2	(0.6)	2.8	(2.3)	0.0	(0.3)	2.7	(1.2)	0.0	(0.1)
11	Big Boulder Cr	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)
13	Big Qual H	0.0	(0.1)	0.7	(1.4)	0.9	(1.4)	0.0	(0.1)	0.7	(0.9)	0.0	(0.2)
15	Birkenhead H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
16	Blanchard	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
18	Bulkley R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
19	Butte Cr f	0.2	(1.1)	0.5	(0.9)	0.6	(1.4)	0.0	(0.1)	0.3	(0.6)	0.0	(0.2)
20	Butte Cr Sp	1.0	(1.0)	1.0	(1.0)	0.6	(0.6)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
21	Carson H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
23	Chetco R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
24	Chickam WhitH	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)
25	Chickamin R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
26	Chilko R	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
27	Christina	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
28	Clear Cr	0.0	(0.1)	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.3)
29	Clear Cr H	0.3	(1.7)	1.8	(4.2)	0.2	(1.1)	18.5	(5.9)	0.0	(0.1)	1.0	(3.0)
30	Clearwater R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.2	(0.3)	0.0	(0.1)

Stock Proportions

		2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area125-127	
		January 100(0)		January 100(0)		February 166(2)		February 99(0)		March 316(6)		March 100(0)		April 396(2)	
Code	Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
31	Cole Rivers H	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
32	Conuma H	0.0	(0.1)	0.3	(0.7)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
33	Coos H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
34	Coquille R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	2.6	(0.9)
35	Cowichan H	0.2	(0.6)	0.1	(0.6)	0.0	(0.0)	0.0	(0.1)	0.5	(0.7)	0.9	(1.0)	0.5	(0.5)
36	Cowlitz H fa	0.1	(0.6)	0.0	(0.2)	6.1	(2.2)	0.7	(1.1)	4.2	(1.6)	0.0	(0.1)	3.1	(1.2)
37	Cowlitz H sp	0.0	(0.1)	0.0	(0.1)	1.4	(1.4)	0.4	(1.0)	0.0	(0.1)	0.0	(0.1)	2.6	(1.0)
38	Craig River	0.0	(0.1)	0.0	(0.1)	0.0	(0.3)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)
39	Cripple Cr	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
40	Damdochax R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
41	Deadman H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.5	(0.4)	0.0	(0.1)	0.1	(0.2)
42	Deer Cr sp	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.2	(0.3)	0.0	(0.1)	0.0	(0.0)
43	Dudidontu R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
44	Dungeness R	0.2	(0.7)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.2)	0.0	(0.0)
46	Ecstall R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
47	Eel R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
48	Elk H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
49	Elwha H	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.7	(0.6)	0.0	(0.1)	0.0	(0.1)
50	Elwha R	0.0	(0.3)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)
51	Feather H fa	9.5	(6.4)	0.1	(0.5)	1.1	(1.5)	0.0	(0.1)	0.7	(1.0)	0.0	(0.1)	0.1	(0.3)
52	Feather H sp	4.5	(3.0)	0.0	(0.1)	0.2	(0.8)	0.2	(0.6)	0.2	(0.5)	0.0	(0.1)	0.0	(0.0)
55	Forks Cr H	0.0	(0.1)	0.0	(0.1)	0.3	(0.8)	0.0	(0.1)	0.1	(0.3)	0.0	(0.1)	0.0	(0.1)
56	GeorgeAdams H	5.9	(3.8)	2.3	(4.8)	13.0	(3.3)	22.1	(6.6)	6.3	(2.1)	26.7	(7.2)	1.9	(1.9)
59	Hamma Hamma R	0.7	(2.2)	16.4	(5.2)	0.0	(0.4)	1.7	(4.6)	2.4	(2.0)	11.2	(7.3)	2.8	(2.1)
60	Hanford Reach	4.8	(4.2)	0.0	(0.1)	4.2	(3.2)	1.9	(1.4)	10.8	(2.4)	0.0	(0.1)	14.6	(2.5)
61	Hoh R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)
62	Humptulips H	0.0	(0.1)	0.0	(0.1)	0.1	(0.6)	0.0	(0.1)	0.1	(0.4)	0.0	(0.2)	0.8	(0.5)
63	Hupp Sp H	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.1	(0.3)	0.4	(0.8)	0.3	(0.9)	0.0	(0.0)

Stock Proportions

Code Stock	2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area125-127	
	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
	January 100(0)		January 100(0)		February 166(2)		February 99(0)		March 316(6)		March 100(0)		April 396(2)	
64 Imnaha R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
65 John Day R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.2	(0.3)	0.0	(0.1)	0.1	(0.2)
66 Johnny Tashoots	0.1	(0.6)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)
67 Kalama H sp	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.1	(0.4)	0.2	(0.4)	0.0	(0.3)	2.7	(1.3)
68 Keta R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
69 Kilchis R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)
70 Kincolith R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
71 King Cr	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)
72 King Salmon R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
73 Kitimat H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
74 Klamath R fa	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
75 Klinaklini R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
77 Klukshu	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
78 Klukshu R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
79 Kowatua Cr	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
80 Kwinageese R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
82 L Adams H	1.2	(1.9)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
83 L Deschutes R	0.4	(1.2)	0.0	(0.1)	0.5	(1.5)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	1.2	(1.0)
84 L Kalum R	0.0	(0.2)	0.5	(0.9)	0.0	(0.2)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
85 L Sauk R	0.0	(0.1)	0.2	(1.0)	0.0	(0.1)	0.1	(0.5)	0.0	(0.0)	0.1	(0.4)	0.0	(0.0)
86 L Tahltan R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
87 L Thom R	0.0	(0.1)	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
88 Lewis H sp	0.0	(0.1)	0.0	(0.1)	0.2	(0.7)	0.0	(0.3)	0.8	(0.9)	0.0	(0.1)	0.3	(0.6)
89 Lewis R f	6.4	(2.8)	1.2	(1.7)	0.4	(0.9)	0.3	(0.8)	1.7	(1.7)	0.0	(0.2)	2.4	(0.9)
91 Little Tahltan	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
92 Little Tatsam.	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
93 Little Trapper	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
94 Louis Cr	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)

Stock Proportions

	2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area125-127	
	January 100(0)		January 100(0)		February 166(2)		February 99(0)		March 316(6)		March 100(0)		April 396(2)	
Code Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
95 Lyons Ferry H	1.1	(1.3)	0.0	(0.1)	0.8	(1.6)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	2.7	(1.1)
96 M Shuswap H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.5	(0.4)
97 Makah H	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
98 Marble H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
99 Marblemount H sp	0.1	(0.4)	0.0	(0.1)	0.0	(0.0)	1.3	(1.9)	0.0	(0.1)	0.0	(0.3)	0.8	(0.5)
100 Marblemount H su	0.0	(0.2)	0.1	(0.5)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)
101 Maria Slough	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
103 McKenzie H	2.0	(1.4)	0.0	(0.1)	6.0	(2.2)	0.1	(0.3)	5.0	(1.8)	0.0	(0.1)	6.1	(1.8)
104 Methow R	0.1	(0.5)	0.0	(0.1)	2.9	(3.1)	0.0	(0.1)	0.6	(1.4)	0.0	(0.1)	4.8	(1.8)
106 Mill Cr sp	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.8	(1.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
107 Millicoma R	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)
108 Minam R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)
110 Morkill R	0.0	(0.1)	0.0	(0.1)	0.2	(0.6)	0.0	(0.1)	0.3	(0.4)	0.0	(0.1)	1.3	(0.7)
113 N Santiam H	0.0	(0.1)	0.0	(0.1)	2.5	(1.9)	0.1	(0.4)	6.7	(1.9)	0.0	(0.1)	4.7	(2.0)
114 Nahlin	0.0	(0.2)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
115 Nakina	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
116 Nakina R	0.0	(0.2)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
117 Nanaimo H f	0.0	(0.1)	0.0	(0.2)	1.2	(1.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
118 Necanicum H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)
119 Nechako R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.4	(0.5)	0.0	(0.1)	0.0	(0.1)
120 Nehalem R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
121 Nestucca H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
122 Newsome Cr	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.8	(0.6)
123 NF Nooksack H	4.1	(2.0)	7.4	(2.6)	3.2	(1.5)	7.1	(2.5)	3.7	(1.1)	7.5	(2.7)	0.5	(0.4)
124 NF Stilliguamish H	0.9	(2.0)	0.1	(0.6)	0.0	(0.1)	0.1	(0.8)	0.0	(0.1)	3.5	(4.6)	0.0	(0.1)
125 Nicola H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.3)
127 Nitinat H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
129 Owegee R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)

Stock Proportions

Code Stock	2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area125-127	
	January 100(0)		January 100(0)		February 166(2)		February 99(0)		March 316(6)		March 100(0)		April 396(2)	
	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
132 Porteau Cove H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)
133 Puntledge H f	3.3	(1.9)	1.6	(1.8)	1.3	(1.5)	0.0	(0.1)	0.3	(0.7)	0.1	(0.5)	2.0	(1.0)
134 Queets R	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
135 Quesnel R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.1	(0.2)
136 Quilayute R	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
138 Quinsam H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
139 Raft R	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)	0.0	(0.0)
140 Rapid R H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.1	(0.3)
141 Robertson H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.3	(0.3)
142 Russian R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)
143 S Coos H	0.0	(0.1)	0.2	(0.6)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
144 S Prairie Cr	0.0	(0.2)	0.3	(1.4)	6.1	(2.5)	1.1	(2.5)	2.4	(2.2)	0.0	(0.3)	0.0	(0.1)
145 S Umpqua H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.3	(0.5)
146 Sacramento H	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
147 Salmon R f	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
148 Salmon R f	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
147 Salmon R f	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)
148 Salmon R f	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)
149 Samish H	7.0	(3.6)	17.0	(5.1)	7.6	(2.9)	14.8	(6.5)	5.4	(1.7)	2.2	(3.5)	0.9	(1.2)
150 Sandy R	0.0	(0.3)	0.0	(0.1)	6.3	(2.4)	0.0	(0.2)	0.7	(1.2)	0.0	(0.1)	0.0	(0.1)
151 Sarita H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
152 Secesh R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
153 Shakes Creek	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
154 Siletz R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)
155 Situk R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
156 Siuslaw R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)
157 Sixes R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.2	(0.3)
158 Skagit R	0.5	(1.6)	11.4	(4.0)	0.1	(0.4)	1.4	(2.9)	0.1	(0.4)	2.5	(4.2)	3.2	(1.2)

Stock Proportions

	2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area125-127	
	January 100(0)		January 100(0)		February 166(2)		February 99(0)		March 316(6)		March 100(0)		April 396(2)	
Code Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
159 Skykomish R	0.3	(1.2)	0.8	(2.1)	0.1	(0.5)	0.1	(0.8)	0.7	(1.3)	0.0	(0.1)	0.0	(0.1)
160 Snoqualmie R	0.8	(2.0)	0.0	(0.3)	0.0	(0.2)	3.3	(4.6)	0.1	(0.3)	2.2	(3.5)	0.2	(0.6)
161 Sol Duc H	0.6	(1.1)	0.0	(0.1)	0.3	(0.7)	0.0	(0.1)	1.6	(0.8)	0.0	(0.1)	1.4	(0.6)
162 Soos H	10.9	(4.2)	12.1	(6.6)	0.0	(0.4)	0.7	(2.6)	5.8	(1.9)	14.2	(5.4)	5.6	(2.3)
163 Spius H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.2)	0.0	(0.1)	0.3	(0.4)
164 Spring Cr H	13.0	(3.5)	10.4	(3.1)	8.3	(2.3)	4.0	(1.9)	8.0	(1.7)	12.8	(3.4)	6.0	(1.3)
165 Stanislaus R	0.0	(0.1)	0.4	(0.8)	3.6	(2.3)	0.0	(0.1)	1.1	(1.1)	0.0	(0.1)	0.4	(0.7)
167 Stillaguamish H	1.5	(2.1)	0.2	(1.1)	0.0	(0.1)	4.8	(3.7)	0.0	(0.1)	4.0	(5.3)	0.0	(0.1)
168 Stuart R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
169 Suiattle R	0.0	(0.2)	8.2	(3.2)	0.0	(0.1)	3.3	(3.4)	1.8	(1.0)	0.1	(0.4)	0.0	(0.1)
170 Sustut R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
171 Swift R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
172 Tahini R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
173 Tahsis R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
174 Takhanne	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
177 Tatsatua Cr	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
178 Tatshenshini	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.2	(0.3)
180 Torpy R	0.0	(0.1)	0.0	(0.1)	1.1	(1.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.1	(0.3)
181 Tranquil R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)
182 Trask R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)
183 Trinity H f	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.3	(0.3)
184 Trinity H sp	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)
185 Tucannon H	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
186 Tucannon R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
187 U Cascade R	0.2	(0.6)	0.2	(0.9)	0.0	(0.1)	0.2	(1.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.0)
188 U Chilcotin R	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
189 U Deschutes R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
190 U Nahlin R	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.4)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)

Stock Proportions

	2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area125-127	
	January 100(0)		January 100(0)		February 166(2)		February 99(0)		March 316(6)		March 100(0)		April 396(2)	
Code Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
191 U Sauk R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.0)	0.1	(0.4)	0.0	(0.0)
192 U Skagit R	0.7	(1.5)	1.7	(2.1)	0.0	(0.1)	0.0	(0.1)	0.2	(0.5)	0.1	(0.4)	0.0	(0.0)
193 U Yakima H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.6	(0.5)	0.0	(0.1)	0.0	(0.0)
194 Umpqua H	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.3)	0.4	(0.5)
195 Verrett	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
196 Voights H	0.0	(0.4)	1.2	(3.0)	0.0	(0.3)	0.0	(0.4)	0.1	(0.5)	0.0	(0.4)	0.3	(0.8)
197 W Chilliwack H	6.3	(2.5)	0.8	(1.1)	4.9	(1.7)	5.9	(2.4)	4.4	(1.2)	6.1	(2.7)	4.1	(1.0)
198 Wallace H	1.9	(2.0)	0.1	(0.8)	1.0	(1.1)	4.5	(2.6)	2.9	(1.3)	0.0	(0.3)	1.2	(0.8)
199 Wannock H	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
200 Warm Springs H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.6	(0.4)	0.0	(0.1)	0.0	(0.1)
201 Wells H	6.2	(3.8)	0.0	(0.1)	7.4	(3.3)	0.0	(0.1)	8.4	(2.0)	4.0	(2.1)	7.5	(2.0)
202 Wenatchee H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.5	(0.4)
203 Wenatchee R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)
204 Wenatchee R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)
204 Wenatchee R	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)
203 Wenatchee R	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)
205 WF Yankee Frk	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
206 White H	0.0	(0.1)	0.0	(0.3)	0.0	(0.1)	0.0	(0.3)	1.1	(0.9)	0.0	(0.1)	0.0	(0.1)
208 Wilson R	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)
210 Yaquina R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.8	(0.6)	0.0	(0.1)	0.0	(0.0)



Stock Proportions

		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area126-126/127		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127	
		April 269(1)		May 132(0)		June 269(0)		June 298(0)		August 101(0)		August 100(0)	
Code	Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
1	Alsea R	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	6.7	(5.1)
2	Andrew Cr	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.2)
4	Andrew CryH	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
5	Andrew Mach	0.0	(0.0)	0.3	(0.8)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.3)
6	Andrew MedH	0.0	(0.0)	0.1	(0.5)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
7	Applegate Cr	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.3	(0.8)	0.0	(0.2)
8	Atnarko H	0.0	(0.0)	0.0	(0.1)	0.4	(0.5)	0.0	(0.0)	0.1	(0.7)	0.0	(0.1)
9	Babine H	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.2)	0.0	(0.2)
10	Battle Cr	1.8	(0.9)	0.0	(0.2)	2.5	(1.1)	2.0	(1.2)	0.3	(0.8)	0.1	(0.5)
11	Big Boulder Cr	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
13	Big Qual H	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
15	Birkenhead H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
16	Blanchard	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
18	Bulkley R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
19	Butte Cr f	0.8	(0.8)	0.0	(0.0)	0.0	(0.0)	0.1	(0.3)	0.1	(0.5)	0.2	(0.9)
20	Butte Cr Sp	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
21	Carson H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
23	Chetco R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.5	(0.8)	0.0	(0.1)
24	Chickam WhitH	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
25	Chickamin R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
26	Chilko R	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.3)
27	Christina	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
28	Clear Cr	0.0	(0.0)	0.0	(0.2)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
29	Clear Cr H	9.0	(3.2)	0.2	(1.1)	0.0	(0.1)	4.1	(3.0)	1.6	(3.2)	0.9	(2.0)
30	Clearwater R	0.0	(0.0)	0.0	(0.1)	0.4	(0.4)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)

Stock Proportions

		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-126/127		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127	
		April 269(1)		May 132(0)		June 269(0)		June 298(0)		August 101(0)		August 100(0)	
Code	Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
31	Cole Rivers H	0.0	(0.1)	0.8	(1.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
32	Conuma H	0.0	(0.0)	0.0	(0.1)	1.1	(0.7)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
33	Coos H	0.0	(0.0)	0.1	(0.4)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.2)
34	Coquille R	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.1	(0.6)
35	Cowichan H	1.6	(0.8)	0.0	(0.0)	2.1	(0.9)	0.3	(0.4)	0.0	(0.1)	0.0	(0.1)
36	Cowlitz H fa	8.7	(1.9)	7.1	(2.6)	6.4	(1.9)	0.1	(0.3)	5.3	(2.8)	0.3	(1.0)
37	Cowlitz H sp	0.1	(0.3)	0.0	(0.1)	0.0	(0.0)	1.8	(0.8)	1.8	(1.7)	0.2	(0.6)
38	Craig River	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.1	(0.4)	0.2	(0.6)
39	Cripple Cr	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.1	(0.7)	0.0	(0.2)
40	Damdochax R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
41	Deadman H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.7	(0.5)	0.0	(0.1)	0.0	(0.1)
42	Deer Cr sp	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
43	Dudidontu R	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
44	Dungeness R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)
46	Ecstall R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
47	Eel R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)
48	Elk H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.2	(0.6)
49	Elwha H	0.0	(0.0)	0.0	(0.1)	0.1	(0.3)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)
50	Elwha R	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
51	Feather H fa	0.4	(0.7)	3.8	(1.7)	1.9	(0.9)	0.9	(1.0)	0.3	(0.8)	0.1	(0.4)
52	Feather H sp	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.2	(0.7)	0.1	(0.5)
55	Forks Cr H	0.0	(0.0)	0.4	(1.0)	0.2	(0.5)	0.0	(0.0)	0.0	(0.1)	3.0	(1.9)
56	GeorgeAdams H	8.9	(2.8)	16.9	(4.6)	6.8	(1.8)	14.7	(3.7)	2.7	(3.4)	0.9	(1.9)
59	Hamma Hamma R	3.3	(3.4)	0.1	(0.6)	0.1	(0.6)	2.9	(3.2)	1.0	(2.1)	0.0	(0.2)
60	Hanford Reach	3.8	(1.9)	7.4	(2.5)	12.1	(2.5)	4.2	(1.9)	5.8	(3.4)	11.6	(3.5)
61	Hoh R	0.0	(0.0)	0.0	(0.0)	0.2	(0.4)	0.0	(0.0)	1.2	(1.9)	0.0	(0.1)
62	Humptulips H	0.0	(0.0)	0.5	(0.9)	1.4	(1.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
63	Hupp Sp H	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)

Stock Proportions

	2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-126/127		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127	
	April 269(1)		May 132(0)		June 269(0)		June 298(0)		August 101(0)		August 100(0)	
Code Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
64 Imnaha R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
65 John Day R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
66 Johnny Tashoots	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
67 Kalama H sp	1.5	(1.4)	1.0	(1.2)	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
68 Keta R	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)
69 Kilchis R	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.4)
70 Kincolith R	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)
71 King Cr	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.3)
72 King Salmon R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
73 Kitimat H	0.0	(0.0)	0.8	(1.1)	0.1	(0.5)	0.0	(0.0)	0.3	(0.9)	0.1	(0.4)
74 Klamath R fa	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
75 Klinaklini R	0.0	(0.0)	0.1	(0.4)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
77 Klukshu	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)
78 Klukshu R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
79 Kowatua Cr	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)	0.0	(0.1)
80 Kwinageese R	0.1	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)
82 L Adams H	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.2	(0.3)	0.0	(0.1)	0.3	(1.1)
83 L Deschutes R	0.3	(0.7)	0.0	(0.1)	0.0	(0.1)	0.3	(0.8)	0.0	(0.1)	0.0	(0.2)
84 L Kalum R	0.0	(0.0)	0.0	(0.1)	0.1	(0.4)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)
85 L Sauk R	0.0	(0.2)	0.0	(0.2)	0.0	(0.3)	0.0	(0.0)	0.1	(0.4)	0.0	(0.1)
86 L Tahltan R	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.7	(1.3)	0.0	(0.2)
87 L Thom R	0.0	(0.0)	0.0	(0.1)	4.7	(1.5)	0.2	(0.4)	11.3	(3.3)	2.5	(2.0)
88 Lewis H sp	1.3	(1.3)	0.0	(0.1)	0.4	(0.6)	0.0	(0.0)	0.0	(0.1)	1.9	(1.8)
89 Lewis R f	0.0	(0.1)	0.0	(0.3)	1.3	(1.4)	0.4	(0.7)	0.0	(0.3)	4.5	(3.0)
91 Little Tahltan	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.3)	0.0	(0.2)
92 Little Tatsam.	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)
93 Little Trapper	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.1	(0.4)	0.0	(0.1)
94 Louis Cr	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)

Stock Proportions

		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-126/127		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127	
		April 269(1)		May 132(0)		June 269(0)		June 298(0)		August 101(0)		August 100(0)	
Code	Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
95	Lyons Ferry H	0.0	(0.2)	0.0	(0.1)	0.2	(0.5)	2.4	(1.6)	0.0	(0.1)	2.0	(1.8)
96	M Shuswap H	0.0	(0.0)	0.0	(0.0)	3.9	(1.2)	0.4	(0.4)	0.0	(0.1)	0.0	(0.1)
97	Makah H	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
98	Marble H	0.0	(0.0)	0.0	(0.1)	0.4	(0.4)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
99	Marblemount H sp	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
100	Marblemount H su	0.0	(0.1)	2.4	(2.6)	0.3	(0.5)	0.1	(0.5)	0.0	(0.1)	0.0	(0.1)
101	Maria Slough	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
103	McKenzie H	0.1	(0.4)	0.0	(0.1)	0.1	(0.3)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
104	Methow R	3.2	(1.6)	0.5	(1.1)	0.1	(0.4)	0.6	(1.4)	0.2	(1.0)	0.0	(0.1)
106	Mill Cr sp	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
107	Millicoma R	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)
108	Minam R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.1	(0.4)
110	Morkill R	0.0	(0.0)	0.1	(0.3)	1.7	(0.9)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
113	N Santiam H	0.3	(0.7)	0.0	(0.0)	1.1	(0.7)	1.3	(0.7)	0.0	(0.1)	0.0	(0.1)
114	Nahlin	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
115	Nakina	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.3)	0.0	(0.1)
116	Nakina R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)
117	Nanaimo H f	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
118	Necanicum H	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
119	Nechako R	0.4	(0.5)	0.0	(0.1)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
120	Nehalem R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	2.3	(1.6)
121	Nestucca H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.4)
122	Newsome Cr	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
123	NF Nooksack H	0.2	(0.3)	0.8	(0.9)	0.2	(0.4)	0.3	(0.3)	0.0	(0.1)	0.0	(0.1)
124	NF Stilliguamish H	0.0	(0.1)	0.0	(0.2)	0.0	(0.0)	0.2	(0.5)	0.1	(0.5)	0.0	(0.1)
125	Nicola H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
127	Nitinat H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
129	Owegee R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)

### Stock Proportions

Code Stock	2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-126/127		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127	
	April 269(1)	May 132(0)	June 269(0)	June 298(0)	August 101(0)	August 100(0)	Estimate	SD	Estimate	SD	Estimate	SD
	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
132 Porteau Cove H	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.3	(0.7)
133 Puntledge H f	0.0	(0.2)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
134 Queets R	0.0	(0.0)	0.0	(0.1)	0.1	(0.4)	0.0	(0.1)	0.0	(0.2)	0.3	(0.8)
135 Quesnel R	0.0	(0.1)	0.0	(0.1)	0.1	(0.3)	0.0	(0.0)	0.0	(0.2)	0.0	(0.2)
136 Quilayute R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.2)	0.0	(0.2)
138 Quinsam H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
139 Raft R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)
140 Rapid R H	0.4	(0.4)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
141 Robertson H	0.0	(0.0)	0.0	(0.1)	0.4	(0.4)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
142 Russian R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.9	(1.0)
143 S Coos H	0.0	(0.0)	0.1	(0.5)	0.0	(0.2)	0.0	(0.1)	0.0	(0.3)	9.9	(3.5)
144 S Prairie Cr	1.2	(2.0)	0.0	(0.2)	0.0	(0.3)	1.6	(2.1)	0.6	(2.2)	0.1	(0.4)
145 S Umpqua H	0.4	(0.4)	0.0	(0.1)	0.0	(0.1)	0.6	(0.6)	0.0	(0.1)	0.1	(0.5)
146 Sacramento H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
147 Salmon R f	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
148 Salmon R f	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
147 Salmon R f	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)
148 Salmon R f	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)
149 Samish H	9.3	(2.7)	9.6	(3.8)	4.3	(1.9)	7.8	(2.8)	0.0	(0.5)	1.0	(1.7)
150 Sandy R	1.2	(1.0)	0.0	(0.1)	0.6	(0.9)	0.6	(0.8)	0.8	(1.9)	0.0	(0.1)
151 Sarita H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
152 Secesh R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
153 Shakes Creek	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.1	(0.4)	0.6	(1.2)	0.0	(0.2)
154 Siletz R	0.0	(0.1)	0.0	(0.3)	0.8	(1.1)	0.0	(0.1)	0.1	(0.4)	0.0	(0.3)
155 Situk R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
156 Siuslaw R	0.0	(0.0)	0.0	(0.1)	0.9	(1.0)	0.7	(0.7)	0.3	(0.8)	7.4	(3.3)
157 Sixes R	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.1	(0.3)	0.0	(0.1)	0.8	(1.0)
158 Skagit R	0.1	(0.4)	1.5	(1.6)	0.3	(0.6)	0.2	(0.4)	0.8	(1.7)	0.0	(0.3)

Stock Proportions

	2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-126/127		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127	
	April 269(1)		May 132(0)		June 269(0)		June 298(0)		August 101(0)		August 100(0)	
Code Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
159 Skykomish R	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.3)	0.0	(0.3)
160 Snoqualmie R	0.0	(0.2)	0.3	(1.3)	0.0	(0.2)	0.0	(0.1)	0.3	(1.1)	0.0	(0.2)
161 Sol Duc H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.2	(0.6)
162 Soos H	7.8	(3.1)	2.0	(3.2)	5.2	(1.7)	4.8	(4.1)	12.9	(4.4)	2.2	(2.6)
163 Spius H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
164 Spring Cr H	13.7	(2.2)	6.9	(2.5)	3.8	(1.3)	8.5	(1.6)	7.5	(2.8)	2.9	(1.9)
165 Stanislaus R	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.1	(0.5)	0.3	(0.8)	2.6	(1.9)
167 Stillaguamish H	2.2	(1.3)	0.1	(0.4)	0.0	(0.0)	0.1	(0.3)	0.0	(0.1)	0.0	(0.3)
168 Stuart R	0.0	(0.1)	0.0	(0.0)	1.7	(1.1)	0.1	(0.2)	0.0	(0.1)	0.0	(0.1)
169 Suiattle R	0.3	(0.7)	0.0	(0.1)	0.0	(0.0)	0.0	(0.2)	0.2	(0.7)	0.0	(0.1)
170 Sustut R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
171 Swift R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
172 Tahini R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
173 Tahsis R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
174 Takhanne	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
177 Tatsatua Cr	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)	0.0	(0.1)
178 Tatshenshini	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
180 Torpy R	0.0	(0.0)	0.7	(0.8)	0.0	(0.1)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)
181 Tranquil R	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
182 Trask R	0.0	(0.0)	0.0	(0.1)	0.7	(1.1)	0.0	(0.1)	0.0	(0.2)	2.2	(3.7)
183 Trinity H f	0.2	(0.3)	0.8	(0.8)	0.1	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)
184 Trinity H sp	0.2	(0.3)	0.0	(0.0)	0.3	(0.4)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
185 Tucannon H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
186 Tucannon R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
187 U Cascade R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.9	(1.3)	0.0	(0.1)
188 U Chilcotin R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
189 U Deschutes R	0.0	(0.0)	0.0	(0.1)	1.0	(0.7)	0.9	(0.7)	0.0	(0.1)	0.0	(0.1)
190 U Nahlin R	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.3)	0.0	(0.1)

Stock Proportions

	2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123-NWVI Area126-126/127		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127			
	April 269(1)		May 132(0)		June 269(0)		June 298(0)		August 101(0)		August 100(0)	
Code Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
191 U Sauk R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.3)
192 U Skagit R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.1	(0.5)	0.5	(1.2)
193 U Yakima H	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
194 Umpqua H	0.6	(0.6)	0.2	(0.7)	1.9	(1.0)	0.0	(0.1)	0.0	(0.1)	0.1	(0.6)
195 Verrett	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)
196 Voights H	0.1	(0.4)	10.0	(3.6)	0.0	(0.2)	0.2	(0.9)	0.5	(1.8)	0.9	(1.7)
197 W Chilliwack H	12.4	(2.1)	23.3	(3.7)	14.7	(2.3)	30.2	(2.7)	38.5	(5.1)	24.4	(4.5)
198 Wallace H	2.4	(1.2)	0.1	(0.4)	0.0	(0.1)	1.4	(0.8)	0.0	(0.1)	0.0	(0.1)
199 Wannock H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)
200 Warm Springs H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
201 Wells H	1.1	(1.5)	0.0	(0.3)	10.4	(2.3)	3.2	(2.0)	0.7	(2.0)	0.0	(0.1)
202 Wenatchee H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)
203 Wenatchee R	0.0	(0.1)	0.6	(1.2)	0.0	(0.1)	0.1	(0.4)	0.0	(0.3)	0.0	(0.1)
204 Wenatchee R	0.0	(0.1)	0.6	(1.2)	0.0	(0.1)	0.1	(0.4)	0.0	(0.3)	0.0	(0.1)
204 Wenatchee R	0.0	(0.1)	0.2	(0.8)	0.0	(0.1)	0.1	(0.5)	0.0	(0.2)	0.0	(0.1)
203 Wenatchee R	0.0	(0.1)	0.2	(0.8)	0.0	(0.1)	0.1	(0.5)	0.0	(0.2)	0.0	(0.1)
205 WF Yankee Frk	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
206 White H	0.1	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.1	(0.5)
208 Wilson R	0.0	(0.0)	0.0	(0.0)	1.9	(1.5)	0.0	(0.0)	0.0	(0.1)	3.8	(4.2)
210 Yaquina R	0.0	(0.0)	0.0	(0.1)	0.1	(0.5)	0.0	(0.0)	0.0	(0.3)	0.3	(0.9)

Stock Proportions

		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126	
		September 296(0)		September 625(3)		October 585(0)		October 90(0)		November 100(0)		December 99(0)		December 100(0)	
Code	Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
1	Alsea R	0.0	(0.1)	0.1	(0.3)	0.0	(0.1)	0.7	(1.9)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
2	Andrew Cr	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
4	Andrew CryH	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.2	(0.7)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
5	Andrew Mach	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
6	Andrew MedH	0.1	(0.3)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
7	Applegate Cr	0.0	(0.1)	0.0	(0.0)	0.2	(0.5)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.5)
8	Atnarko H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.1	(0.6)
9	Babine H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.1	(0.4)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
10	Battle Cr	0.5	(0.8)	0.2	(0.5)	0.1	(0.3)	1.0	(1.1)	0.9	(1.4)	0.0	(0.1)	0.1	(0.5)
11	Big Boulder Cr	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
13	Big Qual H	0.1	(0.2)	0.3	(0.4)	0.0	(0.0)	0.1	(0.5)	0.0	(0.1)	0.0	(0.0)	2.2	(2.2)
15	Birkenhead H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	1.0	(1.0)
16	Blanchard	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
18	Bulkley R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
19	Butte Cr f	0.0	(0.1)	1.8	(1.4)	1.5	(0.7)	0.0	(0.3)	0.0	(0.1)	0.0	(0.0)	1.2	(1.9)
20	Butte Cr Sp	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
21	Carson H	0.0	(0.0)	0.2	(0.2)	0.0	(0.0)	0.1	(0.5)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
23	Chetco R	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
24	Chickam WhitH	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.4	(0.9)
25	Chickamin R	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.1	(0.4)
26	Chilko R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
27	Christina	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)
28	Clear Cr	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.3	(1.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)
29	Clear Cr H	0.0	(0.2)	1.8	(2.1)	8.2	(2.1)	0.8	(3.0)	15.1	(8.9)	0.0	(0.3)	2.4	(4.4)
30	Clearwater R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.3)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)



Stock Proportions

		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126	
		September 296(0)		September 625(3)		October 585(0)		October 90(0)		November 100(0)		December 99(0)		December 100(0)	
Code	Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
31	Cole Rivers H	0.0	(0.0)	0.0	(0.0)	0.1	(0.3)	0.0	(0.1)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)
32	Conuma H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
33	Coos H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
34	Coquille R	0.0	(0.0)	0.6	(0.4)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
35	Cowichan H	0.1	(0.2)	1.5	(0.6)	0.6	(0.4)	0.0	(0.1)	4.1	(2.0)	0.0	(0.1)	1.1	(1.8)
36	Cowlitz H fa	3.1	(1.2)	3.0	(0.8)	1.6	(0.7)	1.5	(2.0)	0.1	(0.4)	0.0	(0.1)	2.2	(2.6)
37	Cowlitz H sp	1.7	(0.8)	0.6	(0.4)	1.9	(0.7)	0.0	(0.1)	0.2	(0.6)	0.0	(0.1)	1.3	(1.2)
38	Craig River	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.1	(0.4)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
39	Cripple Cr	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)
40	Damdochax R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
41	Deadman H	0.0	(0.0)	0.1	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
42	Deer Cr sp	0.0	(0.1)	0.1	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
43	Dudidontu R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
44	Dungeness R	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.3)	0.0	(0.1)
46	Ecstall R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
47	Eel R	0.2	(0.3)	0.0	(0.0)	0.9	(0.4)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
48	Elk H	0.1	(0.3)	1.0	(0.4)	0.8	(0.5)	2.2	(1.6)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
49	Elwha H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)
50	Elwha R	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	1.1	(1.4)	0.0	(0.1)
51	Feather H fa	0.1	(0.4)	1.1	(0.7)	1.8	(0.7)	0.1	(0.5)	1.2	(1.4)	0.0	(0.1)	0.3	(0.9)
52	Feather H sp	2.8	(1.2)	0.2	(0.4)	0.0	(0.0)	0.0	(0.1)	0.0	(0.3)	0.0	(0.1)	2.1	(2.2)
55	Forks Cr H	0.5	(0.5)	1.1	(0.6)	0.5	(0.3)	0.1	(0.5)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
56	GeorgeAdams H	0.1	(0.7)	6.8	(1.7)	7.9	(2.2)	1.5	(4.5)	1.4	(4.2)	19.2	(5.3)	14.7	(6.8)
59	Hamma Hamma R	5.8	(2.0)	0.1	(0.5)	2.6	(2.8)	10.6	(5.6)	21.3	(6.7)	0.4	(1.7)	0.7	(2.5)
60	Hanford Reach	0.4	(0.8)	5.2	(1.2)	0.2	(0.4)	0.0	(0.1)	3.2	(2.1)	0.0	(0.1)	0.3	(1.2)
61	Hoh R	0.0	(0.1)	2.7	(0.7)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
62	Humptulips H	0.0	(0.1)	2.1	(0.8)	0.0	(0.1)	2.5	(2.9)	1.0	(1.0)	0.0	(0.1)	0.0	(0.1)
63	Hupp Sp H	0.8	(0.6)	0.0	(0.0)	0.1	(0.2)	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.2)

Stock Proportions

Code Stock	2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126	
	September 296(0)		September 625(3)		October 585(0)		October 90(0)		November 100(0)		December 99(0)		December 100(0)	
	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
64 Imnaha R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
65 John Day R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.2	(0.7)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
66 Johnny Tashoots	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
67 Kalama H sp	1.0	(0.8)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.4)	0.0	(0.1)	0.0	(0.1)
68 Keta R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.1	(0.6)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
69 Kilchis R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.3)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
70 Kincolith R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
71 King Cr	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	1.0	(1.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
72 King Salmon R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
73 Kitimat H	0.0	(0.1)	0.4	(0.3)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)
74 Klamath R fa	0.0	(0.1)	0.5	(0.3)	0.9	(0.5)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
75 Klinaklini R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
77 Klukshu	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
78 Klukshu R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
79 Kowatua Cr	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
80 Kwinageese R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
82 L Adams H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
83 L Deschutes R	0.6	(0.7)	0.3	(0.5)	0.0	(0.1)	0.0	(0.2)	0.1	(0.4)	0.0	(0.1)	0.2	(0.8)
84 L Kalum R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.3)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)
85 L Sauk R	0.0	(0.0)	0.2	(0.4)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.2	(0.7)	0.0	(0.1)
86 L Tahltan R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
87 L Thom R	0.0	(0.0)	1.3	(0.5)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
88 Lewis H sp	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.2	(0.6)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
89 Lewis R f	2.5	(1.0)	0.0	(0.2)	0.8	(0.7)	1.8	(2.0)	0.0	(0.1)	0.0	(0.1)	1.5	(2.2)
91 Little Tahltan	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
92 Little Tatsam.	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
93 Little Trapper	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)
94 Louis Cr	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)

Stock Proportions

		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126	
		September 296(0)		September 625(3)		October 585(0)		October 90(0)		November 100(0)		December 99(0)		December 100(0)	
Code	Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
95	Lyons Ferry H	1.3	(0.8)	0.5	(0.7)	4.4	(0.9)	2.3	(1.6)	0.0	(0.3)	0.0	(0.1)	0.0	(0.1)
96	M Shuswap H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
97	Makah H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
98	Marble H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
99	Marblemount H sp	1.5	(0.8)	0.0	(0.1)	0.1	(0.3)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)
100	Marblemount H su	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.1	(0.4)	4.5	(2.7)	0.0	(0.1)	0.0	(0.1)
101	Maria Slough	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
103	McKenzie H	0.2	(0.3)	0.0	(0.0)	0.2	(0.3)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
104	Methow R	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.2	(0.7)	0.0	(0.1)	0.3	(1.0)
106	Mill Cr sp	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
107	Millicoma R	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.2	(0.8)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
108	Minam R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.1	(0.5)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
110	Morkill R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
113	N Santiam H	0.0	(0.1)	0.0	(0.0)	0.2	(0.3)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
114	Nahlin	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.1	(0.4)	0.0	(0.1)	0.0	(0.0)
115	Nakina	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
116	Nakina R	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
117	Nanaimo H f	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.1	(0.6)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
118	Necanicum H	0.4	(0.4)	0.0	(0.0)	0.0	(0.0)	0.7	(1.6)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
119	Nechako R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.1	(0.4)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
120	Nehalem R	0.0	(0.1)	0.5	(0.3)	0.0	(0.0)	0.4	(1.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
121	Nestucca H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.4)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
122	Newsome Cr	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
123	NF Nooksack H	0.7	(0.5)	2.2	(0.6)	2.5	(0.7)	0.0	(0.2)	4.0	(2.0)	6.8	(2.6)	3.2	(1.8)
124	NF Stilliguamish H	0.0	(0.1)	0.1	(0.4)	0.0	(0.1)	0.0	(0.1)	2.3	(2.3)	2.0	(4.0)	1.2	(2.4)
125	Nicola H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
127	Nitinat H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
129	Owegee R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)

Stock Proportions

Code Stock	2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126	
	September 296(0)		September 625(3)		October 585(0)		October 90(0)		November 100(0)		December 99(0)		December 100(0)	
	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
132 Porteau Cove H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
133 Puntledge H f	0.2	(0.4)	0.0	(0.2)	0.0	(0.0)	1.6	(2.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.3)
134 Queets R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
135 Quesnel R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
136 Quilayute R	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
138 Quinsam H	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
139 Raft R	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.1	(0.5)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
140 Rapid R H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
141 Robertson H	0.0	(0.0)	0.1	(0.2)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
142 Russian R	0.4	(0.4)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
143 S Coos H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.3)	0.0	(0.1)
144 S Prairie Cr	0.2	(0.9)	1.7	(1.8)	5.1	(2.2)	0.1	(0.9)	0.0	(0.2)	0.7	(2.7)	9.3	(5.9)
145 S Umpqua H	0.0	(0.2)	0.0	(0.0)	0.0	(0.0)	0.1	(0.5)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
146 Sacramento H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
147 Salmon R f	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	1.0	(1.9)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
148 Salmon R f	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	1.0	(1.9)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
147 Salmon R f	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	1.1	(2.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
148 Salmon R f	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	1.1	(2.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
149 Samish H	9.3	(3.3)	0.1	(0.5)	3.9	(1.4)	11.5	(6.8)	7.0	(6.3)	15.5	(5.5)	17.6	(5.9)
150 Sandy R	0.0	(0.1)	1.8	(0.7)	0.3	(0.5)	0.0	(0.3)	0.0	(0.1)	0.0	(0.1)	0.4	(1.1)
151 Sarita H	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
152 Secesh R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.1	(0.5)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
153 Shakes Creek	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
154 Siletz R	0.0	(0.1)	0.1	(0.4)	0.0	(0.1)	5.1	(3.4)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
155 Situk R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
156 Siuslaw R	0.0	(0.1)	0.7	(0.7)	0.0	(0.1)	2.1	(3.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
157 Sixes R	0.6	(0.5)	0.0	(0.0)	0.1	(0.3)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
158 Skagit R	0.1	(0.5)	0.3	(0.5)	0.0	(0.1)	6.5	(3.4)	0.0	(0.4)	7.6	(4.1)	0.8	(1.8)

Stock Proportions

		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126	
		September 296(0)		September 625(3)		October 585(0)		October 90(0)		November 100(0)		December 99(0)		December 100(0)	
Code	Stock	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
159	Skykomish R	0.0	(0.0)	0.0	(0.1)	0.1	(0.2)	0.1	(0.6)	0.0	(0.1)	0.0	(0.3)	2.7	(3.9)
160	Snoqualmie R	3.1	(1.9)	0.5	(1.1)	2.3	(1.8)	0.0	(0.2)	0.1	(0.6)	11.3	(5.2)	0.4	(1.8)
161	Sol Duc H	0.0	(0.0)	0.0	(0.0)	0.5	(0.3)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
162	Soos H	11.5	(3.6)	8.9	(2.0)	5.7	(1.8)	7.5	(6.7)	0.6	(2.6)	16.6	(4.9)	3.5	(6.1)
163	Spilus H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
164	Spring Cr H	6.4	(1.4)	8.2	(1.1)	5.0	(0.9)	5.8	(2.6)	4.8	(2.2)	1.0	(1.0)	8.0	(2.8)
165	Stanislaus R	0.5	(0.7)	1.3	(1.2)	0.2	(0.3)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
167	Stillaguamish H	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.2	(0.8)	2.3	(4.1)	0.2	(0.9)
168	Stuart R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
169	Suiattle R	0.0	(0.0)	0.2	(0.3)	0.1	(0.3)	0.0	(0.2)	0.2	(0.8)	2.4	(2.8)	0.4	(1.1)
170	Sustut R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
171	Swift R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
172	Tahini R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
173	Tahsis R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.5	(0.9)	0.0	(0.1)	0.0	(0.1)
174	Takhanne	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
177	Tatsatua Cr	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)
178	Tatshenshini	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
180	Torpy R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)
181	Tranquil R	0.0	(0.0)	0.5	(0.3)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
182	Trask R	0.0	(0.2)	2.8	(0.8)	0.0	(0.0)	0.5	(1.5)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
183	Trinity H f	0.0	(0.0)	0.0	(0.0)	0.6	(0.5)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)
184	Trinity H sp	0.0	(0.0)	0.0	(0.0)	0.6	(0.6)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
185	Tucannon H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.1	(0.4)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
186	Tucannon R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
187	U Cascade R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)
188	U Chilcotin R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
189	U Deschutes R	0.0	(0.0)	0.6	(0.5)	0.8	(0.4)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
190	U Nahlin R	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.3)	0.0	(0.1)	0.0	(0.1)

Stock Proportions

Code Stock	2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126	
	September 296(0)		September 625(3)		October 585(0)		October 90(0)		November 100(0)		December 99(0)		December 100(0)	
	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
191 U Sauk R	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.4)	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)
192 U Skagit R	0.0	(0.0)	0.1	(0.2)	0.2	(0.3)	0.0	(0.4)	0.0	(0.2)	0.0	(0.1)	0.3	(0.9)
193 U Yakima H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
194 Umpqua H	2.2	(1.0)	1.6	(0.6)	4.5	(1.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	2.6	(1.7)
195 Verrett	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
196 Voights H	7.3	(3.6)	5.5	(1.7)	0.4	(0.9)	0.1	(0.8)	6.6	(8.3)	0.1	(0.6)	5.6	(7.7)
197 W Chilliwack H	32.2	(2.8)	26.2	(1.8)	29.1	(2.0)	23.1	(4.6)	8.9	(2.9)	0.0	(0.1)	9.8	(3.2)
198 Wallace H	0.8	(0.8)	1.1	(0.5)	0.9	(0.7)	2.5	(2.5)	11.1	(3.8)	12.5	(4.3)	0.8	(1.7)
199 Wannock H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
200 Warm Springs H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
201 Wells H	0.0	(0.2)	0.2	(0.4)	1.1	(0.5)	0.2	(0.6)	0.0	(0.1)	0.0	(0.1)	0.5	(1.3)
202 Wenatchee H	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.5	(1.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
203 Wenatchee R	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.1	(0.7)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
204 Wenatchee R	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.1	(0.7)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
204 Wenatchee R	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.4)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
203 Wenatchee R	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.4)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
205 WF Yankee Frk	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
206 White H	0.1	(0.3)	0.0	(0.1)	0.2	(0.2)	0.0	(0.1)	0.6	(1.1)	0.0	(0.1)	0.0	(0.1)
208 Wilson R	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
210 Yaquina R	0.0	(0.1)	0.3	(0.4)	0.1	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)

## Regional

Species = chinook Number of populations = 181 Baseline Description = CTC Number of loci = 13 Max missing loci = 8  
 Number of chains = 8 Number of Reps = 20000 Reps Kept = 1000

	2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area23	
	January 100(0)		January 100(0)		February 166(2)		February 99(0)		March 316(6)		March 100(0)	
Code Region1	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
1 Alsek	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
2 California Coast	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
3 Central BC Coast	0.0	(0.1)	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.2)
4 Central Valley fa	12.3	(4.1)	1.2	(1.1)	8.0	(2.3)	0.0	(0.3)	4.8	(1.3)	0.0	(0.2)
5 Central Valley sp	5.6	(3.2)	1.1	(1.0)	0.9	(1.0)	1.0	(1.0)	0.4	(0.6)	0.0	(0.1)
6 Central Valley wi	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
7 Deschutes R. fa	0.4	(1.2)	0.0	(0.1)	0.5	(1.5)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
8 E Vancouver Is.	3.4	(1.9)	2.5	(1.7)	3.5	(1.6)	0.0	(0.2)	1.5	(0.8)	1.0	(1.0)
9 Hood Canal	6.6	(3.4)	18.7	(5.5)	13.0	(3.3)	23.9	(6.1)	8.6	(2.1)	37.9	(6.8)
10 Juan de Fuca	0.3	(0.7)	0.0	(0.2)	0.0	(0.1)	0.0	(0.2)	0.7	(0.6)	0.0	(0.2)
11 Klamath R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
12 L Columbia R. fa	6.6	(2.8)	1.2	(1.7)	12.8	(3.0)	1.0	(1.3)	6.6	(1.6)	0.0	(0.3)
13 L Columbia R. sp	0.0	(0.1)	0.0	(0.2)	1.6	(1.5)	0.5	(1.1)	0.9	(0.9)	0.0	(0.3)
14 L Fraser R.	6.3	(2.5)	0.8	(1.1)	4.9	(1.7)	5.9	(2.4)	4.4	(1.2)	6.1	(2.7)
15 L Skeena R.	0.0	(0.2)	0.5	(0.9)	0.0	(0.2)	0.0	(0.2)	0.0	(0.0)	0.0	(0.1)
16 L Thompson R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.2)	0.0	(0.1)
17 Mid and Upper Columbia R. sp	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)	1.5	(0.7)	0.0	(0.2)
18 Mid Columbia R. tule	13.0	(3.5)	10.4	(3.1)	8.3	(2.3)	4.0	(1.9)	8.0	(1.7)	12.8	(3.4)
19 Mid Fraser R.	0.0	(0.2)	0.0	(0.2)	0.1	(0.4)	0.0	(0.2)	0.4	(0.5)	0.0	(0.2)
20 Mid Oregon Coast	0.0	(0.2)	0.2	(0.6)	0.1	(0.4)	0.0	(0.3)	0.1	(0.2)	0.1	(0.4)
21 N California/S Oregon Coast	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
22 N Gulf Coast; Alsek R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
23 N Gulf Coast; Situk R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
24 N Oregon Coast	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)	0.0	(0.3)	1.3	(0.7)	0.0	(0.2)
25 N Puget Sound	18.0	(5.0)	47.5	(6.5)	12.0	(3.3)	41.0	(6.7)	14.7	(2.4)	22.3	(5.9)

Regional

	2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area23	
	January 100(0)		January 100(0)		February 166(2)		February 99(0)		March 316(6)		March 100(0)	
Code Region1	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
26 N Thompson R.	0.0	(0.2)	0.0	(0.1)	0.0	(0.2)	0.0	(0.2)	0.7	(0.5)	0.1	(0.4)
27 Nass R.	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)
28 NSE Alaska; King Salmon R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
29 NSE Alaska;Chilkat R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
30 Rogue R.	0.0	(0.1)	0.0	(0.1)	0.7	(0.8)	0.0	(0.1)	1.3	(0.7)	0.0	(0.1)
31 S BC Mainland	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
32 S Puget Sound	11.3	(4.4)	15.4	(5.5)	6.4	(2.6)	20.4	(5.8)	9.9	(2.4)	15.6	(5.3)
33 S Thompson R.	1.2	(1.9)	0.0	(0.2)	0.0	(0.2)	0.0	(0.3)	0.0	(0.1)	0.0	(0.2)
34 Snake R. fa	1.1	(1.3)	0.0	(0.1)	0.8	(1.6)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
35 Snake R. sp/su	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.2)
36 SSE Alaska	0.0	(0.2)	0.0	(0.3)	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.4)
37 SSE Alaska; Stikine R.	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)
38 Stikine	0.1	(0.6)	0.0	(0.4)	0.0	(0.3)	0.0	(0.3)	0.0	(0.1)	0.0	(0.3)
39 Taku	0.0	(0.3)	0.0	(0.3)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.2)
40 Taku R.	0.1	(0.4)	0.0	(0.2)	0.0	(0.1)	0.1	(0.4)	0.0	(0.1)	0.0	(0.2)
41 U Columbia R. su/fa	11.1	(3.6)	0.0	(0.2)	14.5	(3.5)	1.9	(1.5)	19.9	(2.3)	4.0	(2.1)
42 U Fraser R.	0.0	(0.2)	0.0	(0.1)	1.4	(1.1)	0.0	(0.1)	0.3	(0.4)	0.0	(0.1)
43 U Skeena R.	0.0	(0.1)	0.0	(0.1)	0.9	(1.0)	0.0	(0.1)	0.3	(0.4)	0.0	(0.1)
44 U Stikine R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
45 W Vancouver Is.	0.0	(0.2)	0.3	(0.7)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.2)
46 Washington Coast	0.6	(1.1)	0.0	(0.3)	0.8	(1.2)	0.0	(0.2)	1.8	(0.9)	0.0	(0.3)
47 Willamette R.	2.0	(1.4)	0.0	(0.1)	8.5	(2.3)	0.1	(0.5)	11.7	(1.8)	0.0	(0.1)



Regional

	2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-126/127		2006 06wctdfo troll SWVI Area23-123	
	April 396(2)		April 269(1)		May 132(0)		June 269(0)		June 298(0)	
Code Region1	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
1 Alsek	0.3	(0.3)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
2 California Coast	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
3 Central BC Coast	0.0	(0.1)	0.0	(0.1)	0.8	(1.1)	0.5	(0.7)	0.0	(0.1)
4 Central Valley fa	3.5	(1.0)	3.0	(1.1)	3.8	(1.7)	4.4	(1.3)	3.1	(1.1)
5 Central Valley sp	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
6 Central Valley wi	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
7 Deschutes R. fa	1.2	(1.0)	0.3	(0.7)	0.0	(0.1)	1.0	(0.7)	1.2	(0.9)
8 E Vancouver Is.	2.9	(1.0)	1.7	(0.8)	0.0	(0.2)	2.1	(0.9)	0.4	(0.4)
9 Hood Canal	4.7	(1.7)	12.2	(3.9)	17.0	(4.6)	7.0	(1.9)	17.6	(3.7)
10 Juan de Fuca	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.1	(0.3)	0.0	(0.1)
11 Klamath R.	0.3	(0.3)	0.4	(0.4)	0.8	(0.8)	0.4	(0.4)	0.0	(0.0)
12 L Columbia R. fa	5.5	(1.4)	9.9	(2.1)	7.2	(2.6)	8.2	(1.8)	1.1	(0.8)
13 L Columbia R. sp	5.5	(1.6)	2.9	(1.3)	1.1	(1.2)	0.4	(0.6)	1.8	(0.9)
14 L Fraser R.	4.1	(1.0)	12.4	(2.1)	23.3	(3.7)	14.7	(2.3)	30.2	(2.7)
15 L Skeena R.	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.1	(0.4)	0.0	(0.0)
16 L Thompson R.	0.5	(0.4)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
17 Mid and Upper Columbia R. sp	1.5	(0.8)	0.0	(0.2)	0.6	(1.2)	0.0	(0.1)	0.1	(0.4)
18 Mid Columbia R. tule	6.0	(1.3)	13.7	(2.2)	6.9	(2.5)	3.8	(1.3)	8.5	(1.6)
19 Mid Fraser R.	0.1	(0.3)	0.5	(0.5)	0.0	(0.2)	1.8	(1.0)	0.1	(0.2)
20 Mid Oregon Coast	3.6	(1.1)	1.0	(0.8)	0.4	(0.9)	2.8	(1.4)	1.4	(0.8)
21 N California/S Oregon Coast	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
22 N Gulf Coast; Alsek R.	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
23 N Gulf Coast; Situk R.	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
24 N Oregon Coast	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)	3.6	(1.4)	0.0	(0.2)
25 N Puget Sound	6.9	(1.8)	14.6	(3.0)	14.8	(4.7)	5.3	(2.1)	10.2	(3.0)

Regional

	2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area23-123		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll NWVI Area126-126/127		2006 06wctdfo troll SWVI Area23-123	
	April 396(2)		April 269(1)		May 132(0)		June 269(0)		June 298(0)	
Code Region1	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
26 N Thompson R.	0.1	(0.2)	0.0	(0.1)	0.0	(0.1)	0.4	(0.4)	0.7	(0.5)
27 Nass R.	0.0	(0.0)	0.1	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
28 NSE Alaska; King Salmon R.	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
29 NSE Alaska;Chilkat R.	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
30 Rogue R.	0.0	(0.1)	0.0	(0.1)	0.8	(1.2)	0.0	(0.1)	0.0	(0.1)
31 S BC Mainland	0.0	(0.0)	0.0	(0.0)	0.1	(0.4)	0.0	(0.1)	0.0	(0.0)
32 S Puget Sound	7.6	(1.9)	18.2	(4.2)	12.2	(4.4)	5.2	(1.7)	10.6	(4.1)
33 S Thompson R.	0.5	(0.4)	0.0	(0.1)	0.0	(0.1)	8.6	(1.8)	0.7	(0.5)
34 Snake R. fa	2.7	(1.1)	0.0	(0.2)	0.0	(0.1)	0.2	(0.5)	2.4	(1.6)
35 Snake R. sp/su	0.9	(0.5)	0.4	(0.4)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
36 SSE Alaska	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.1	(0.3)	0.0	(0.2)
37 SSE Alaska; Stikine R.	0.0	(0.1)	0.0	(0.1)	0.5	(0.9)	0.0	(0.1)	0.0	(0.1)
38 Stikine	0.0	(0.1)	0.0	(0.1)	0.0	(0.3)	0.0	(0.2)	0.1	(0.4)
39 Taku	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
40 Taku R.	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)	0.0	(0.2)
41 U Columbia R. su/fa	27.0	(2.4)	8.2	(1.9)	8.2	(2.6)	22.6	(2.7)	8.2	(2.1)
42 U Fraser R.	1.4	(0.6)	0.0	(0.1)	0.7	(0.8)	1.7	(0.9)	0.0	(0.1)
43 U Skeena R.	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)
44 U Stikine R.	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
45 W Vancouver Is.	0.3	(0.3)	0.0	(0.1)	0.0	(0.2)	1.9	(0.8)	0.1	(0.2)
46 Washington Coast	2.2	(0.8)	0.0	(0.1)	0.9	(1.2)	1.9	(0.9)	0.0	(0.1)
47 Willamette R.	10.8	(1.7)	0.4	(0.7)	0.0	(0.1)	1.2	(0.7)	1.4	(0.7)

Regional

Code Region1	2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWWI Area125-127		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWWI Area125-127		2006 06wctdfo troll SWVI Area123	
	August 101(0)		August 100(0)		September 296(0)		September 625(3)		October 585(0)	
	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
1 Alsek	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
2 California Coast	0.0	(0.1)	0.9	(1.0)	0.6	(0.5)	0.0	(0.0)	0.9	(0.4)
3 Central BC Coast	0.4	(1.1)	0.1	(0.4)	0.0	(0.1)	0.4	(0.3)	0.0	(0.1)
4 Central Valley fa	1.0	(1.2)	3.0	(1.8)	1.1	(0.9)	4.4	(0.9)	3.5	(0.8)
5 Central Valley sp	0.2	(0.7)	0.1	(0.5)	2.8	(1.2)	0.3	(0.4)	0.0	(0.0)
6 Central Valley wi	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)
7 Deschutes R. fa	0.0	(0.1)	0.0	(0.2)	0.6	(0.7)	0.9	(0.6)	0.8	(0.4)
8 E Vancouver Is.	0.0	(0.2)	0.0	(0.2)	0.4	(0.4)	1.9	(0.6)	0.6	(0.4)
9 Hood Canal	3.7	(3.4)	0.9	(1.9)	5.9	(2.1)	7.0	(1.7)	10.5	(2.4)
10 Juan de Fuca	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
11 Klamath R.	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.5	(0.3)	2.1	(0.6)
12 L Columbia R. fa	6.1	(3.0)	4.8	(2.8)	5.6	(1.4)	4.8	(1.0)	2.7	(0.8)
13 L Columbia R. sp	1.8	(1.7)	2.1	(2.0)	2.7	(1.1)	0.7	(0.4)	1.9	(0.7)
14 L Fraser R.	38.5	(5.1)	24.4	(4.5)	32.2	(2.8)	26.2	(1.8)	29.1	(2.0)
15 L Skeena R.	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
16 L Thompson R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.0)
17 Mid and Upper Columbia R. sp	0.0	(0.4)	0.0	(0.2)	0.0	(0.2)	0.2	(0.2)	0.0	(0.1)
18 Mid Columbia R. tule	7.5	(2.8)	2.9	(1.9)	6.4	(1.4)	8.2	(1.1)	5.0	(0.9)
19 Mid Fraser R.	0.0	(0.3)	0.1	(0.4)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
20 Mid Oregon Coast	0.4	(0.9)	18.7	(4.6)	2.9	(1.1)	3.9	(1.0)	5.5	(1.1)
21 N California/S Oregon Coast	0.5	(0.8)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.1)
22 N Gulf Coast; Alsek R.	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)
23 N Gulf Coast; Situk R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)
24 N Oregon Coast	0.2	(0.6)	15.4	(4.4)	0.5	(0.5)	3.9	(0.9)	0.1	(0.2)
25 N Puget Sound	2.4	(2.3)	1.6	(2.2)	15.5	(3.7)	4.8	(1.4)	10.0	(2.0)

Regional

Code Region1	2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area123-124		2006 06wctdfo troll NWVI Area125-127		2006 06wctdfo troll SWVI Area123	
	August 101(0)		August 100(0)		September 296(0)		September 625(3)		October 585(0)	
	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
26 N Thompson R.	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.1	(0.2)	0.0	(0.1)
27 Nass R.	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
28 NSE Alaska; King Salmon R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)
29 NSE Alaska;Chilkat R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)
30 Rogue R.	0.3	(0.8)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.3	(0.5)
31 S BC Mainland	0.0	(0.1)	0.3	(0.7)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)
32 S Puget Sound	15.6	(4.6)	4.1	(2.6)	20.0	(3.7)	18.0	(2.1)	19.7	(2.8)
33 S Thompson R.	11.3	(3.3)	2.8	(1.9)	0.0	(0.1)	1.3	(0.5)	0.0	(0.1)
34 Snake R. fa	0.0	(0.1)	2.0	(1.8)	1.3	(0.8)	0.5	(0.7)	4.4	(0.9)
35 Snake R. sp/su	0.0	(0.2)	0.1	(0.4)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
36 SSE Alaska	0.1	(0.7)	0.1	(0.4)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
37 SSE Alaska; Stikine R.	0.0	(0.3)	0.1	(0.4)	0.1	(0.3)	0.0	(0.1)	0.0	(0.1)
38 Stikine	0.7	(1.4)	0.2	(0.7)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
39 Taku	0.1	(0.4)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
40 Taku R.	0.2	(0.7)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.0)
41 U Columbia R. su/fa	6.7	(2.7)	11.6	(3.5)	0.5	(0.8)	5.4	(1.1)	1.4	(0.6)
42 U Fraser R.	0.0	(0.3)	0.0	(0.2)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
43 U Skeena R.	0.0	(0.2)	0.0	(0.2)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)
44 U Stikine R.	0.7	(1.3)	0.0	(0.2)	0.0	(0.0)	0.0	(0.0)	0.0	(0.0)
45 W Vancouver Is.	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)	0.7	(0.3)	0.0	(0.0)
46 Washington Coast	1.2	(1.9)	3.6	(2.2)	0.5	(0.5)	6.1	(1.0)	1.1	(0.4)
47 Willamette R.	0.0	(0.1)	0.0	(0.1)	0.2	(0.3)	0.0	(0.0)	0.4	(0.3)

Regional

	2006 06wctdfo troll NWVI Area126-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126	
	October 90(0)		November 100(0)		December 99(0)		December 100(0)	
Code Region1	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
1 Alsek	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
2 California Coast	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
3 Central BC Coast	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.1	(0.7)
4 Central Valley fa	1.1	(1.1)	2.0	(1.4)	0.0	(0.1)	1.5	(2.1)
5 Central Valley sp	0.0	(0.2)	0.0	(0.4)	0.0	(0.2)	2.1	(2.2)
6 Central Valley wi	0.0	(0.1)	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)
7 Deschutes R. fa	0.0	(0.2)	0.1	(0.4)	0.0	(0.1)	0.2	(0.8)
8 E Vancouver Is.	1.9	(2.1)	4.1	(2.0)	0.0	(0.2)	3.3	(1.9)
9 Hood Canal	12.1	(6.3)	22.7	(6.7)	19.6	(5.2)	15.3	(6.1)
10 Juan de Fuca	0.0	(0.2)	0.0	(0.1)	1.2	(1.4)	0.0	(0.2)
11 Klamath R.	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.2)
12 L Columbia R. fa	3.3	(2.1)	0.1	(0.4)	0.0	(0.2)	4.2	(2.4)
13 L Columbia R. sp	0.2	(0.6)	0.2	(0.7)	0.0	(0.1)	1.3	(1.2)
14 L Fraser R.	23.1	(4.6)	8.9	(2.9)	0.0	(0.1)	10.8	(3.3)
15 L Skeena R.	0.0	(0.3)	0.0	(0.1)	0.0	(0.1)	0.1	(0.4)
16 L Thompson R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
17 Mid and Upper Columbia R. sp	0.9	(1.5)	0.0	(0.1)	0.0	(0.2)	0.0	(0.2)
18 Mid Columbia R. tule	5.8	(2.6)	4.8	(2.2)	1.0	(1.0)	8.0	(2.8)
19 Mid Fraser R.	0.1	(0.5)	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)
20 Mid Oregon Coast	4.6	(3.4)	0.0	(0.3)	0.1	(0.4)	2.7	(1.7)
21 N California/S Oregon Coast	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)
22 N Gulf Coast; Alsek R.	0.0	(0.1)	0.0	(0.0)	0.0	(0.1)	0.0	(0.1)
23 N Gulf Coast; Situk R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
24 N Oregon Coast	8.4	(4.1)	0.0	(0.2)	0.0	(0.3)	0.0	(0.2)
25 N Puget Sound	20.8	(7.3)	29.4	(7.2)	60.7	(6.5)	27.6	(7.0)

Regional

Code Region1	2006 06wctdfo troll NWVI Area126-127		2006 06wctdfo troll SWVI Area123		2006 06wctdfo troll SWVI Area23		2006 06wctdfo troll NWVI Area126	
	October 90(0)		November 100(0)		December 99(0)		December 100(0)	
	Estimate	SD	Estimate	SD	Estimate	SD	Estimate	SD
26 N Thompson R.	0.1	(0.6)	0.0	(0.2)	0.0	(0.1)	0.0	(0.2)
27 Nass R.	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)	0.0	(0.1)
28 NSE Alaska; King Salmon R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
29 NSE Alaska;Chilkat R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
30 Rogue R.	0.0	(0.1)	0.0	(0.2)	0.0	(0.1)	0.1	(0.5)
31 S BC Mainland	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
32 S Puget Sound	8.5	(6.6)	22.9	(7.6)	17.4	(5.2)	20.8	(7.8)
33 S Thompson R.	0.0	(0.2)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
34 Snake R. fa	2.3	(1.6)	0.0	(0.3)	0.0	(0.1)	0.0	(0.1)
35 Snake R. sp/su	0.3	(0.9)	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)
36 SSE Alaska	1.3	(1.5)	0.0	(0.1)	0.0	(0.2)	0.6	(1.0)
37 SSE Alaska; Stikine R.	0.2	(0.8)	0.0	(0.1)	0.0	(0.2)	0.0	(0.2)
38 Stikine	0.1	(0.5)	0.0	(0.3)	0.0	(0.2)	0.0	(0.2)
39 Taku	0.0	(0.2)	0.1	(0.4)	0.0	(0.2)	0.1	(0.4)
40 Taku R.	0.0	(0.2)	0.0	(0.4)	0.0	(0.2)	0.0	(0.3)
41 U Columbia R. su/fa	0.2	(0.7)	3.4	(2.0)	0.0	(0.2)	1.2	(1.8)
42 U Fraser R.	1.1	(2.0)	0.0	(0.2)	0.0	(0.1)	0.1	(0.4)
43 U Skeena R.	0.1	(0.5)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
44 U Stikine R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)
45 W Vancouver Is.	0.5	(1.0)	0.0	(0.2)	0.0	(0.2)	0.0	(0.2)
46 Washington Coast	2.7	(2.9)	1.0	(1.0)	0.0	(0.2)	0.0	(0.2)
47 Willamette R.	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)	0.0	(0.1)