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From
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Our file – Notre référence

CA REPORT 2008 NARRATIVE

Your File - Votre référence

Date

FEB 4, 2009

Subject
Objet

COMMUNITY PROJECT UPDATE FOR 2008 – AREAS 7-9

Happy New Year from snowy Bella Coola! As we head into 2009 and planning for another year of operations, it is also a time to look back at 2008 and provide an update for community projects and the DFO Snootli Creek Hatchery here in the Central Coast. This report will also include notes from "the creekside" providing an overview summary of hatchery production I submit to Fisheries Management, followed by four spreadsheets of numbers starting with a general one page summary of the Central Coast releases & eggtakes in 2008, then more detailed brood summary info by project and species. For other more detailed project information, do not hesitate to contact myself or the individual project personnel. Your interest and feedback is welcome!

COMMUNITY PROJECTS – 2008 YEAR IN REVIEW

Two community project highlights in the Central Coast during the last year came with help from the Pacific Salmon Commission Northern Fund. McLoughlin Hatchery in Bella Bella received funding for modest project upgrades to double their chum production from a 1 million to 2 million smolt release and the Johnston Creek coho project in Rivers Inlet was supported so a CWT mark group can be released and tracked through migration and interception in the various fisheries as well as contribute to local returns.

Course, none of this would have happened without people stepping up to the plate and the staff of McLoughlin Hatchery, Snootli Hatchery and members of the Rivers Inlet North Coast Salmon Enhancement Association (and their pocket books!) are to be commended for "fielding" first class teams that can boast very successful "seasons" to date!

In Klemtu, Kitasoo Hatchery staff have worked out an agreement with the Co-management Program to supply fish culture expertise to the Victor Creek sockeye facility through the winter and Spring/Summer rearing program. This is welcome news for both staff (development) and the sockeye (survivals)!



Speaking of sockeye, the Heiltsuk Fisheries - Emily Hatchery project crew have seen very respectable numbers of their marked 2003 brood Tankeeah fish come back as adults over the past two years and are keen to repeat that rearing and release strategy for future broods, as well as increase fry production. In a year when sockeye food fish were harder to come by the harvest opportunity at Tankeeah was much appreciated in 2008. We had the pleasure once again to have DFO fishery officers, Heather, Dan and Adam work with us on the river. The Nuxalk Fisheries sockeye program had a successful year with over 100k AD clipped fry released from the 2007 brood and over 95k eggs taken in 2008.

On the local coho front, the CCFPA/Snootli Hatchery coho initiative is ongoing and as this "goes to press" some very impressive numbers of 2005 brood marked fish returns are coming in from the Snootli Creek stock. A welcome circumstance in a year with poor returns overall. The volunteers and Snootli staff had to put extra effort into broodstock capture and eggtake this year, but it paid off and there are two groups of 30K+ coho eggs on hand from Snootli Creek and Saloompt River.

The Rivers & Smith Inlet Salmon Ecosystem Planning Society (Rivers Partner Group) continues to be active in supporting projects and is now tackling some WSP work looking at conservation units and targets for fisheries management. The Bella Coola Watershed Conservation Society have been involved in an exciting watershed ortho-photo/mapping project and will collaborate with other partners in a coordinated approach to securing map products that are so essential in community/watershed planning.

On the education front, the Stream to Sea program and Classroom Incubator project continue to be a favorite in the schools with support from the CCFPA and project crews in Bella Bella and Klemtu."

REMEMBERING RANDY HODSON

In 2008 we had to bid farewell to CCFPA president Randy Hodson who was taken from us in April after a valiant struggle to beat cancer. Randy was well known and respected in the Central Coast area and will be dearly missed. He contributed many hours of his time to a variety of projects from fish fences to fish and ocean festivals and his leadership, expertise and passion for the resource was and will be an inspiration that lives on.



Collecting Samples for Oceans Day



Hagensborg Slough Fish Fence

THE CA "ON ASSIGNMENT"

This summer and fall I took an opportunity to work with the local Fisheries Management team here in Bella Coola. I had a first hand look at the communication, consultation and data required to make commercial fishery decisions and work with the tidal and freshwater sport fish representatives. It was surprising how much time the fishery managers spent on the phone with fishers (sport and commercial), hatchery project managers and other DFO staff before making any decisions and the strict protocol for making commercial fishery announcements every Thursday. I spent considerable time assisting staff with tidal sport fish data management – assisting with data form improvement, data entry and summary. As well, I worked on a pilot project with sportfishing lodges to collect halibut weight data with an audit component - that would be used by DFO staff working with the International Pacific Halibut Commission. It was an interesting few weeks and I look forward to spending some time this spring on herring programs.

OPERATIONS UPDATE FROM DFO MAJOR FACILITY - SNOOTLI HATCHERY (BELLA COOLA)

Submitted by John Willis, Operations Manager

Rearing 2007 Brood

Rearing programs for the most part ran smoothly last year. It was a colder winter than we had experienced in the last several, resulting in lower water temperatures and slower growth. Chums were released a week later than normal to get them closer to target release weight. Atnarko Chinooks were released smaller than their target size.

Egg takes

Chum egg targets were reached in spite of lower than expected adult returns to the Bella Coola System (16,000).

Upper Atnarko Chinook egg targets were not reached due to lower adult returns.

Atnarko Chinook returns were the lowest in 25 years (9,000) and Bella Coola tributary Chinooks were some of the lowest in 25 years. Green Atnarko Chinook were transported to the hatchery for the first time, with encouraging results. Due to the length of the Chinook egg take there was reduced effort on the dead pitch.

Again in 2008 Snootli staff assisted with the Lakelse Lake Sockeye Rehabilitation Program: Fry Outplant Project. Aproximately 328,000 Sockeye eggs were obtained during two egg takes on August 19th and August 21st.

Snootli staff were also involved again with Sockeye egg takes carried out by the Gitgaat and Nuxalk First Nations and 297,000 and 95,000 eggs were transported to Snootli for incubation and rearing.

Snootli staff assisted the Central Coast Fisherman's Protective Association and River Inlet North Coast Salmon Enhancement Association with Coho egg takes and eggs are onsite incubating.

Incubation

To date incubation temperatures have been slightly colder than average which will result in later ponding dates.

Survival rates to date are as follows:

Chum 96.7%

Chinook 95.3%

Sockeye 81.4%

Coho 94.7%

Snootli Hatchery and Atnarko Channel/Ponds Upgrades

A new well was installed and plumbed in the summer (mostly PSC funds) to augment other well sources on site where capacity is reduced. This will allow for current production levels to be maintained and for greater flexibility in developing water demand/use strategies to achieve biological rearing size and time of release targets.

Snootli staff provided input into the Atnarko River diversion project aimed at providing more water to the spawning channel and rearing ponds. The increased flow to the channel has improved pink spawn success and survival while additional rearing water for the ponds allows chinook and coho to be reared at the Atnarko over winter and release of yearling smolts (PSC funds).

CENTRAL COAST ENHANCEMENT PRODUCTION NOTES RELEASES AND EGGTAKES FROM ALL FACILITIES IN 2008

CHUM SALMON

Releases of 2007 brood chum fry & smolts this past Spring was on target for all the facilities with over 9 million being released.

This fall, all facilities met eggtake targets though a much lower than expected return to the Bella Coola system made broodstock programs more challenging for Snootli Hatchery. It should be noted that without fishers and fisheries mgt. actions to conserve Bella Coola chum stocks, egg targets may not have been met.

In Bella Bella and Klemtu the hatchery staff easily attained egg targets even though adult returns were not strong enough to support a commercial fishery. Escapements to these two small systems met targets.

Of note on the chum salmon front is the doubling of the chum egg target (and achieving the additional 1 million eggs) at McLoughlin Hatchery in Bella Bella. This was made possible through funding for upgrades at the site from the Pacific Salmon Commission Northern Fund monies for 2008.

CHINOOK SALMON

Releases of 2007 brood smolts met expectations with over 1.8 million coming from the Bella Coola watershed and 213,000 Wannock Chinook releases in Rivers Inlet.

Broodstock programs in 2008 were challenging on the Atnarko/Bella Coola system due to very low returns. Egg targets were met for the Lower Atnarko River and close to 75% for the Upper Atnarko (the two largest eggtakes). Efforts in the lower Bella Coola systems resulted in only 12 thousand Saloompt Chinook eggs being taken. Here again – the fisheries management decisions (with fisher support) to forgo commercial net fisheries – assisted broodstock programs by putting more fish on the grounds.

Snootli Hatchery has received funding in 2007 and 2008 from the PSC Northern Funds for facility upgrades and operational costs to allow for yearling releases of Atnarko Chinook from 2007 and 2008 broods. Yearling groups of ~250k are taken from inventory on hand when fry are ponded.

The Wannock River egg target was easily met with over 300 thousand eggs being taken. Going into the eggtake there was concern that abundance might be very low (based on poor recreational lodge catch) but numbers on the ground were more than sufficient to allow for a relatively quick and easy broodstock capture/ eggtake program.

COHO SALMON

Releases of coho salmon smolts in 2008 were yearlings from the 2006 brood. Releases met expectations for Bella Coola and McLoughlin and were within 10% of target in Klemtu. Coho are not a production species in the Central Coast and projects are done to provide marked fish (information for fisheries mgt. and survival tracking, like the Bella Coola and Johnston groups at this time) and/or to sustain stocks that might be impacted by commercial chum fisheries like at McLoughlin and Kitasoo. While large scale production is not occurring these enhanced fish do contribute to fisheries (by-catch commercially and targeted recreationally) and as food fish for First Nations. Both McLoughlin and Kitasoo hatcheries have met coho egg targets for 2008 and report that returns are sufficient to seed the two systems. In Bella Coola, broodstock capture programs have been challenging due to very poor returns (except for the 2005 brood Snootli enhanced coho which have shown very well in food fish and in broodstock capture) . The good news is that crews were able to secure enough adults for two groups of approximately 30k (for 25k smolt release). The local volunteer group is assisting with broodstock capture, eggtakes and securing funds for fish food to carry these groups through. DFO stock assessment has been providing funds for CWT tag purchase and marking.

The Johnston Creek (Rivers Inlet) coho project started last fall with support from the sport fishing sector and has also received PSC Northern Fund money in 2008 for extended rearing and marking. The main goal is to release marked smolts to track migration timing and interception through commercial and sport fisheries. The target eggtake is 25k-30k and this has been achieved in 2008. 16k eggs were obtained last year.

SOCKEYE SALMON.

Fry releases in the Central Coast this past spring were on target for the Tankeeah River stock (Heiltsuk Fisheries/Emily Lake Hatchery but fell below for Atnarko/Lonesome Lake and Lagoon Creek. In the case of Atnarko/Lonesome Lake the shortfall came from not being able to meet egg targets last fall, not from any poor survival during the hatchery program. The Lagoon shortfall was due to some fish culture problems at Victor Hatchery in Klemtu.

The Heiltsuk crew had no trouble meeting the 100k egg target from the Tankeeah River in 2008 and report that there were good numbers of adults in the system. At Lagoon Creek the egg target was reduced in-season due to lower than average returns to the system. The Atnarko/Lonesome Lake program staff (Nuxalk Fisheries with Snootli Hatchery) secured over 100k eggs (last years target) but were unable to capture enough broodstock to meet the increased target of 200k for 2008 - the broodstock program being impacted by escapement numbers.

INDIVIDUAL PROJECT CONTACT INFORMATION

BELLA BELLA

McLoughlin Hatchery Community Economic Development Project - Heiltsuk First Nation

Manager: Andrea Larsen

Ph: 250-957-2661 e-mail: bbse@bellabella.net or bbsep1@xplornet.com

Heiltsuk Fisheries Program - Tankeeah Sockeye Pilot and Fisheries Co-mgt Program

Contact: Mike Reid, Project Lead - Heiltsuk Fisheries Program

Ph: 250-957-2303 e-mail through: mreid@bellabella.net

KLEMTU

Kitasoo Hatchery Community Economic Development Project - Kitasoo First Nation

Contact: Mark Mason or Brent Mason

Ph: 250-839-1220 e-mail: bamason_2000@yahoo.com

Kitasoo Nation Fisheries Program - Roderick Lake Sockeye Pilot

Contact: Larry Greba

Ph: 604-669-9324 e-mail: LarryD_Greba@telus.net

Kitasoo Nation Fisheries Program – Co-management

Contact: Larry Greba

Ph: 604-669-9324 e-mail: LarryD_Greba@telus.net

BELLA COOLA

Central Coast Fishermans Protective Association

Contact: Darwin Unrau, President

Ph: 250-982-2633 e-mail: ccfpa@belco.bc.ca

Bella Coola Watershed Conservation Society (BCWCS)

Contact: Shirley Willson (coordinator)

Ph: 250-982-0007 e-mail: watershed@belco.bc.ca

Nuxalk Fisheries Program

Contact: Able Hood, Program Administrator

Ph: 250-799-5613 e-mail: nuxalkfish@yahoo.ca

Snootli Creek DFO Enhancement Facility (Bella Coola)

Contact: Russ Hilland, Watershed Enhancement Officer or John Willis, Hatchery Operations Manager

Ph: 250-982-2522 e-mail: Russ.Hilland@dfo-mpo.gc.ca or John.Willis@dfo-mpo.gc.ca

RIVERS INLET

The Rivers Inlet Partner Group, now Rivers and Smiths Inlet Ecosystem Planning Society

Coordinator: David Stevenson

e-mail: rsseps@telus.net

Web site: www.rsseps.ca (check the website as reports from the projects will be posted there as they are available)

Oweekeno (Wuikinuxv) Nation Fisheries Program

Coordinator: Cindy Hanuse

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Wannock Chinook Enhancement/Assessment Project

Contact: Jim Rough, President, Rivers Inlet North Coast Enhancement Association - RINCSEA (previously Rivers Inlet Hakai Pass Sportfishing Association or RIHPSFA)

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EDUCATION PROGRAM

Shirley Willson, Coordinator

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CENTRAL COAST ENHANCEMENT FACILITIES - SUMMARY OF RELEASES IN 2008 & EGGS OBTAINED FROM 2008 BROOD - UPDATED FEB.3/09 (some inventories not final)

FACILITY	STOCK	ANNUAL EGG	IN 2008		
		TARGET	*RELEASES	ON HAND-rearing	EGGS TAKEN
CHUM SALMON (releases of brood 2007)					
SNOOTLI HATCHERY IN BELLA COOLA	BELLA COOLA& TRIBUTARIES - AREA 8, NORTH BENTINK ARM	7.2 MILLION	7,100,212		7,969,266
MCLOUGHLIN HATCHERY IN BELLA BELLA	MCLOUGHLIN CREEK - AREA 7, LAMA PASS	1.5 MILLION (increased to 2.5 million in 2008)	1,031,062		2,615,980
KITASOO HATCHERY IN KLEMTU	KITASOO CREEK - AREA 7, FINLAYSON CHANNEL	1.25 MILLION	1,001,023		1,372,500
CHINOOK SALMON (releases of brood 2007)					
SNOOTLI HATCHERY	ATNARKO RIVER	2 MILLION + 250k for yearling project in 2008	1,704,686	398,658	1,789,500
SNOOTLI HATCHERY	BELLA COOLA RIVER TRIBS (SALOOMT, NUSATSUM, NOOSGULCH)	100K SALOOMPT & NUSATSUM, 50K NOOSGULCH	100,771		12,189
SNOOTLI HATCHERY & PARTNERS	WANNOCK RIVER - AREA 9, RIVERS INLET	200K TO 2005, THEN 400K	213,586		285,916
COHO SALMON (releases of brood 2006)					
SNOOTLI HATCHERY & PARTNERS	BELLA COOLA& TRIBUTARIES	30K - 60K	24,803	59,470	78,656
SNOOTLI HATCHERY & PARTNERS	JOHNSTON CREEK - AREA 9, RIVERS INLET	25k-30K (initiated in 2007-only 1 day on river)		16,261	31,057
MCLOUGHLIN HATCHERY	MCLOUGHLIN CREEK - AREA 7, LAMA PASS	80K	65,100	58,147	90,000
KITASOO HATCHERY	KITASOO CREEK - AREA 7, FINLAYSON CHANNEL	60K	36,572	65,000	70,000
SOCKEYE SALMON (releases of brood 2006 smolts and 2007 brood fry)					
SNOOTLI HATCHERY & PARTNERS	ATNARKO RIVER & LONESOME LAKE - AREA 8	200K (increased from 100k in 2007)	134,204		95,425
SNOOTLI HATCHERY & PARTNERS	Northern sockeye (Williams Crk & Curtis Creek) + Mikado Crk	300k each stock	284,204		625,599
EMILY LAKE HATCHERY IN BELLA BELLA	TANKEEAH RIVER - AREA 7, SPILLER CHANNEL	100K	98,192		118,340
VICTOR CREEK HATCHERY IN KLEMTU	LAGOON CRK, AREA 7, FINLAYSON CHANNEL	70K	*38,779		54,241
*RELEASES: Chum/chinook releases in 2008 from the 2007 brood, coho releases primarily smolts from 2006 brood, sockeye = mostly from 2007 brood					
ON HAND: On hand groups will be from 2007 chinook and coho rearing for a year - to be released in the Spring of 2009					
*Victor Creek releases in 2008 consisted of ~7k smolts from 2006 brood and 31,500 fry from 2007 brood					
Numbers in shading not final - inventories not complete					
Table generated by S.MacLaurin, DFO Community Advisor, Central Coast (e-mail: Sandie.MacLaurin@dfo-mpo.gc.ca, ph: 250-982-2663)					

**Central Coast Community Involvement
ANNUAL REPORT 2008**

COMMUNITY PROJECT BROOD SUMMARY DATA

PERIOD: APRIL 2008 - DECEMBER 2008

STAFF: S.J. MACLAURIN

BROOD YEAR	STOCK	NUMBER OF EGGS			TRANSFERS			CURRENT STATUS		RELEASES		SIZE (gms)	SURV. TO DATE	COMMENTS
		SPECIES	TARGET	ATTAINED	NUMBERS MOVED	STAGE @MOVE	IN FROM OUT TO	STAGE	NUMBER	NUMBER	DATE			
MCLOUGHLIN HATCHERY - BELLA BELLA CEDP (# coho eggs attained includes those destroyed due to BKD)														
2006	McLoughlin	Coho	60,000	119,821	(~24k eggs destroyed due to BKD, eggs kept = 95,857)			smolt released		65,100	May 15-16, 2008	FW=16.9, SW=20.5	54.3% all, 67.9% in eggs kept	Most mortality during incubation (BKD&poor fertilization) - rearing program went well with low mortality. Releases=11.5K smolts to estuary, 53.6 @seapens.
2007	McLoughlin	Coho	60,000	93,787	(~27k eggs destroyed due to BKD, eggs kept = 66,733)			parr	58,149			~10.0	68.1% all, 86.9% in eggs kept	Adults injected to combat BKD. Kept only negative group - results to date are excellent.
	McLoughlin	Chum	1,500,000	1,328,907				smolt released		1,031,062	May 21-28, 2008	1.19	78%	
2008	McLoughlin	Coho	60,000	90,000	(~18,000k eggs destroyed due to BKD, eggs kept = ~72000)			eyed eggs	72,000				80%	
	McLoughlin	Chum	2,500,000	2,615,980				alevin	2,210,713				85%	lower survival to eyed in initial groups where pH levels low and water temps higher - surv is to eyed
KITASOO HATCHERY - KITASOO CEDP (# coho eggs attained includes those destroyed due to BKD)														
2006	Kitasoo	Coho	60,000	79,083	(~16.7K eggs destroyed due to BKD, eggs kept = 62,339)			fry & smolt release		41,536	fry= June 07, smolt=May 12, 08	fry=.39 smolt=19.3	67%	fry release was only 4,964 (from late eggtake)
2007	Kitasoo	Coho	60,000	97,065	(~17.5K eggs destroyed due to BKD, eggs kept = 79,565)			parr	69,079				87%	parr avg size = 13gms
	Kitasoo	Chum	1,250,000	1,341,612				smolt released		1,001,023	June 5, 08	1.47	75%	
2008	Kitasoo	Coho	60,000	70,000				eyed eggs	60,000				86%	Eyed inventory not available for report
	Kitasoo	Chum	1,250,000	1,372,500				alevin	1,303,875				95%	
KITASOO - AFS LAGOON CREEK/RODERICK LAKE SOCKEYE PILOT														
2006	Lagoon Crk	Sockeye	75000	76,210 total, 70,954 kept				released fry - LV		28,560	July 31, 2007	2.0	76%	Some mortality during secondary incubation due to faulty trays. Transports went well and parr on hand will be released at Victor Crk as smolts in May of 2008
					(~5K eggs destroyed due to BKD)			released parr - RV		17,960	Nov. 14, 2007	6.07		
								released smolt - AD		7,281	May 15, 2008	15.80		
2007	Lagoon Crk	Sockeye	75,000	67,460				fed fry - LV		31,500	July 22, 2008	2 gms	47%	Significant mortalities post ponding due to end screen blockage and low oxygen, avg wt. to be confirmed
2008	Lagoon Crk	Sockeye	75,000	54,241				alevin	46,058				85%	
HEILTSUK - AFS EMILY LAKE SOCKEYE PILOT														
2007	Tankeeah	Sockeye	100,000	109,755				fry		98,192	April 9, 2008	~.18	89%	
2008	Tankeeah	Sockeye	100,000	118,340				alevin	102,067				86%	

Central Coast Community Involvement				COMMUNITY PROJECT BROOD SUMMARY DATA - SNOOTLI HATCHERY & PARTNERS								STAFF: S.J. MACLAURIN		
ANNUAL REPORT 2008				PERIOD: APRIL 2008 - DECEMBER 2008										
BROOD	NUMBER OF EGGS			NUMBERS	STAGE	IN FROM	TRANSFERS	RELEASES	SIZE	SURV.	TO	COMMENTS		
YEAR	STOCK	SPECIES	TARGET	ATTAINED	MOVED	@MOVE	OUT TO	STAGE	#ON HAND	NUMBER	DATE	(gms)	DATE	COMMENTS
2007	Atnarko R Low	PK	3,000,000	n/a	Spawning Channel, hydraulic sampling showed very poor seeding and survival									Spawning Channel
2008	Atnarko R Low	PK	3,000,000	675,000				alevin	580,500					Spawning Channel, estimates from hydraulic sampling
2007	Fish+Airport	CM	1,800,000	1,891,013				fed fry		1,698,025	3/Apr/08	0.90	89.8%	Production
2008	Fish+Airport	CM	1,800,000	2,018,937				alevin	1,959,440				97.1%	Production, inv@eyed
2007	Salloomt R	CM	1,800,000	1,908,681				fed fry		1,801,651	2/Apr/08	0.90	94.4%	Production
2008	Salloomt R	CM	1,800,000	2,000,423				alevin	1,925,083				96.2%	Production, inv@eyed
2007	Snootli Cr	CM	1,800,000	1,942,821				fed fry		1,805,958	2/Apr/08	0.90	93.0%	Production
2008	Snootli Cr	CM	1,800,000	1,938,053				alevin	1,878,516				96.9%	Production, inv@eyed
2007	Thorsen Cr	CM	1,800,000	1,957,471				fed fry		1,794,578	3/Apr/08	0.90	91.7%	Production
2008	Thorsen Cr	CM	1,800,000	2,014,232				alevin	1,943,007				96.5%	Production, inv@eyed
2006	Snootli Cr	CO	60,000	27,532				smolt		24,803	13/May/08	20.40	90.1%	Enhancement for assessment & education - CWT marked
2007	Snootli Cr	CO	30,000	1,500				fed fry		1,200	May-June 08		80.0%	Used for education program - final inventories not ready for report
2008	Snootli Cr	CO	60000	41,831				eyed egg	40,733				97.4%	Broodstock collection difficult due to low returns. CWT marked in Oct.
2007	Salloomt R	CO	30,000	32,936				parr	26,553				80.6%	CWT marked in Oct.
2008	Salloomt R	CO	30,000	36,825				eyed egg	35,252				95.7%	
2007	Atnarko/Bella Coola River	CO	30,000	35,012				parr	32,917				94.0%	
2008	Atnarko/Bella Coola River	CO	30,000	0										
2007	Johnston Ck	CO	30,000	16,784				parr	16,203				96.5%	CWT marked in Oct.
2008	Johnston Ck	CO	30,000	31,057				eyed egg	27,878				89.8%	
2007	Atnarko R Lonesome Lk	SX	200,000	163,423				fry		134,204	8/May/08	0.42	82.1%	
2008	Atnarko R Lonesome Lk	SX	200,000	95,425				alevin	77,632				81.4%	eyed egg inv., Lonesome Lk group had poor surv.
2007	Curtis & Mikado Cks	SX	50,000	28,837	1000	fry	Snootli-> SFU			16,842	7/May/08	0.45	58.4%	Mikado stock - very bad surv. - suspect poor fert. in some
2008	Curtis Ck	SX	300,000	297,490				alevin	225,700				75.9%	eyed egg inv.

Central Coast Community Involvement					COMMUNITY PROJECT BROOD SUMMARY DATA - SNOOTLI HATCHERY & PARTNERS								STAFF: S.J. MACLAURIN		
ANNUAL REPORT 2008					PERIOD: APRIL 2008 - DECEMBER 2008										
BROOD	NUMBER OF EGGS				NUMBERS	STAGE	IN FROM	TRANSFERS				SIZE	SURV.		
YEAR	STOCK	SPECIES	TARGET	ATTAINED	MOVED	@MOVE	OUT TO	STAGE	#ON HAND	RELEASES	NUMBER	DATE	(gms)	DATE	COMMENTS
2007	Williams Cr. (Lakelse)	SX	300,000	328,705				fry		266,362		30/Apr/08	0.60	81.0%	
2008	Williams Cr. (Lakelse)	SX	300,000	328,109				alevin	282,135					86.0%	eyed egg inv.
2007	Atnarko R Low	CN	1,300,000	1,167,578				smolt/ yearlings	198,973	793,869		6/Jun/08	4.40	85.0%	Production, smolt and yearling
2008	Atnarko R Low	CN	1,300,000	1,310,864				alevin	1,245,908					95.0%	Production, smolt and yearling
2007	Atnarko R Upper	CN	1,300,000	1,166,784				smolt/ yearlings	199,489	910,817		6/Jun/08	4.20	95.2%	Production, smolt and yearling
2008	Atnarko R Upper	CN	1,050,000	796,060				alevin	761,950					95.7%	Production, smolt and yearling
2007	Noosgulch R	CN	50,000	0											Strategic Enhancement, poor escapement
2008	Noosgulch R	CN	50,000	0											Strategic Enhancement, poor escapement
2007	Nusatsum R	CN	100,000	41,260				fed fry		40,584		5/Jun/08	3.60	98.4%	Strategic Enhancement
2008	Nusatsum R	CN	100,000	0											Strategic Enhancement, poor escapement
2007	Salloomt R	CN	100,000	64,203				smolt		60,187		5/Jun/08	5.50	93.7%	Strategic Enhancement
2008	Salloomt R	CN	100,000	12,189				alevin	11,669					95.7%	Strategic Enhancement, poor escapement
2007	Wannock R.	CN	300,000	242,493				FF/ smolt		213,586		16-Jun-08	FW= 3.5, SW= 4.5	88.1%	FW group = 29,766 CWT, SW group = 183,820 with 29,788 CWT
2008	Wannock R.	CN	300,000	285,916				eyed egg	248,970					87.1%	Several partial females in batch one where fert. was poor
Totals			25,130,000	22,899,444					#####	9,562,666					

NOTE: *Numbers in italics have not been finalized yet*