

Exhibit F.2.c
Supplemental ODFW Report
September 2001

**Preliminary Results from the 2001 Selective Recreational Fishery
for Adipose Fin-clipped Coho Salmon from Cape Falcon to
Humbug Mountain, Oregon**

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In 1999 and 2000, the Pacific Fisheries Management Council (PFMC) adopted a recreational selective fishery off the central coast of Oregon that would allow the harvest of fin-clipped hatchery coho salmon while minimizing the impacts on threatened Oregon Coastal Natural (OCN) coho. Based on the success of the fishery in those years, the PFMC again adopted the fishery in 2001. The fishery operated in an area from Cape Falcon to Humbug Mountain that was comprised of three major catch areas (Figure 1). The fishery started as scheduled on 22 June and was open seven days per week. A daily catch limit of two salmon per day and a weekly bag limit of no more than 6 salmon in 7 consecutive days were in place. All retained coho were required to have a healed adipose fin-clip and all unmarked coho were to be released unharmed immediately. The fishery was to remain open through the earlier of 31 July or a landed catch of 55,000 coho. The quota was reached on 19 July and the fishery closed effective midnight on that date.

Total effort in the fishery was estimated at 47,349 angler days and the fishery harvested 54,627 fin-clipped coho and 6,169 chinook (Table 1). An estimated total of 24,946 unmarked coho were released during the fishery (Table 1). Private boats made up the bulk of the catch and effort in the fishery (Table 1). Catch area 4 had the highest overall effort and largest number of fin-clipped coho retained, whereas catch area 5 had the largest number of chinook retained (Table 1).

Weekly effort remained fairly constant throughout the fishery (Figure 2). Overall, the number of fin-clipped coho retained weekly increased through the fishery and catch per effort increased in the final two weeks of the fishery (Figure 2). The pattern of cumulative catch observed (Figure 3) and the increasing catch per effort necessitated the rapid closure of the fishery with little advanced notice.

Mark rates were estimated from observer data collected on charter vessels and ranged from 62.4%-74.9% (Table 2). Overall, the mark rates observed in the fishery were lower than those predicted by the Fisheries Regulation Assessment Model (FRAM) used by the PFMC. This difference indicated that unmarked fish (comprised of both naturally produced and unmarked hatchery produced fish) made up a larger proportion of the fish encountered in the fishery than was predicted. Whether this was caused by improved stock status of wild fish will not be known until all fishery returns and escapement have been reported.

The total estimated adult coho mortality in the fishery was 62,688 which was comprised of retained catch, hook-and-release mortality, and drop-off mortality. A total of 54,803 adult coho were retained in the fishery, of which 176 were illegally retained unmarked coho (Table 3). Hook-and-release mortality of the unmarked adult coho released was estimated at 3,490. No fin-clipped coho were observed released during the fishery and we assume hook-and-release mortality of fin-clipped coho is negligible. Drop-off mortality was estimated at 4,395 adult coho, of which 1,330 were unmarked (Table 3). Using preseason FRAM assumptions regarding coho distribution and stock composition, we estimated that 17 OCN coho were illegally retained, 284 died from hook-and release, and 128 died after dropping-off the hook for a total of 429 OCN coho mortalities during the fishery (Table 3). This represents 0.8% of the OCN coho preseason estimate of 50,100 adults.

Table 1. Estimated angler effort, fish retained, and fish released with 95% confidence intervals (95% CI) during the recreational selective fishery from Cape Falcon to Humbug Mountain, Oregon, in 2001.

Statistic	Catch Area 3		Catch Area 4		Catch Area 5		Combined Catch Areas	
	Estimate	95% CI	Estimate	95% CI	Estimate	95% CI	Estimate	95% CI
Angler Days	8,366	716	12,945	1,288	17,462	1,385	38,773	2,022
Coho								
Retained	10,311	773	15,029	1,304	17,486	1,394	42,826	2,058
Released ^{a/}	5,815	730	6,979	735	6,643	678	19,437	1,237
Chinook								
Retained	646	141	665	1,659	4,025	983	5,336	1,933
Released ^{b/}	0	--	0	--	0	--	0	--
Angler Days	1,132	86	6,115	161	1,329	61	8,576	192
Coho								
Retained	1,859	27	8,402	75	1,540	22	11,801	83
Released ^{a/}	1,088	107	3,850	232	571	40	5,509	258
Chinook								
Retained	141	0	218	5	474	0	833	16
Released ^{b/}	0	--	0	--	0	--	0	--
Angler Days	9,498	721	19,060	1,297	18,791	1,387	47,349	2,031
Coho								
Retained	12,170	773	23,431	1,304	19,026	1,394	54,627	2,058
Released ^{a/}	6,903	738	10,829	770	7,214	679	24,946	1,264
Chinook								
Retained	787	141	883	1,659	4,499	983	6,169	1,933
Released ^{b/}	0	--	0	--	0	--	0	--

^{a/} Coho released are estimated from the mark rates of legal-sized fish collected by observers onboard charter vessels.

^{b/} No legal-sized chinook were observed released onboard charter vessels.

Table 2. Predicted (FRAM) and observed mark (ODFW) rates for the recreational selective fishery from Cape Falcon to Humbug Mountain, Oregon, in 2001.

Source	Catch Area 3		Catch Area 4		Catch Area 5	
	Mark Rate	95% CI	Mark Rate	95% CI	Mark Rate	95% CI
<i><u>June</u></i>						
FRAM	85.3%	--	78.8%	--	80.1%	--
ODFW	67.9%	18.4%	66.2%	7.7%	68.2%	10.1%
<i><u>July</u></i>						
FRAM	84.4%	--	82.0%	--	82.6%	--
ODFW	62.4%	6.6%	69.5%	4.8%	74.9%	5.4%

Table 3. Sources and estimates of adult coho mortality in the recreational selective fishery from Cape Falcon to Humbug Mountain, Oregon, in 2001.

Statistic	Catch Area 3			Catch Area 4			Catch Area 5			Combined Catch Areas						
	Marked	Unmarked	OCN ^{a/}	Marked	Unmarked	Total	OCN ^{a/}	Marked	Unmarked	Total	OCN ^{a/}	Marked	Unmarked	Total	OCN ^{a/}	
Coho Retained^{b/}	12,170	30	12,200	1	23,431	55	23,486	4	19,026	91	19,117	12	54,627	176	54,803	17
Coho Released																
Estimated no.	0	6,903	6,903	--	0	10,829	10,829	--	0	7,214	7,214	--	0	24,946	24,946	--
Mortality ^{c/}	0	966	966	35	0	1,515	1,515	131	0	1,009	1,009	118	0	3,490	3,490	284
Coho Drop-off^{d/}																
Estimated no.	1,288	718	2,006	--	12,206	5,685	17,891	--	8,421	3,105	11,526	--	21,915	9,508	31,423	--
Mortality	179	100	279	4	1,708	796	2,504	71	1,178	434	1,612	53	3,065	1,330	4,395	128
Total Mortality	12,349	1,096	13,445	40	25,139	2,366	27,505	206	20,204	1,534	21,738	183	57,692	4,996	62,688	429

a/ Oregon Coastal Natural (OCN) coho mortality is a component of the unmarked mortality.

b/ Unmarked coho retained (illegal retention) was estimated using "random" Oregon State Police observations. Random observations exclude any OSP contacts that result from a referral or anonymous tip.

c/ The mortality of coho released was estimated as the estimated number of coho released x the PFMC approved hook-and-release mortality rate of 0.14. No legal-sized coho were observed released.

d/ The number of coho that dropped-off were estimated from onboard observer data. Drop-off mortality was estimated as the estimated drop-off x the PFMC approved hook-and-release mortality rate of 0.14.

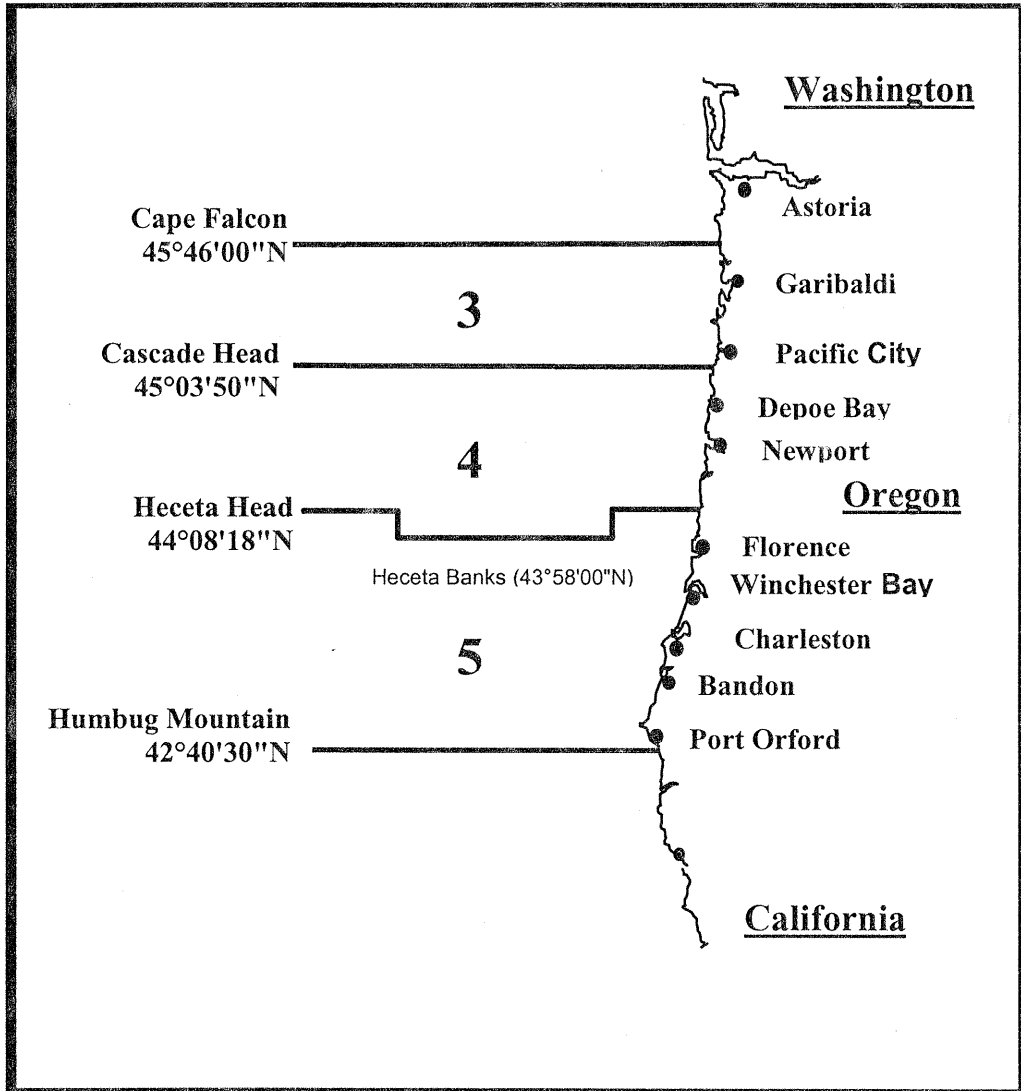


Figure 1. Area of the recreational selective fishery off the Oregon Coast from Cape Falcon to Humbug Mountain with catch areas 3, 4, and 5 used in sampling and monitoring.

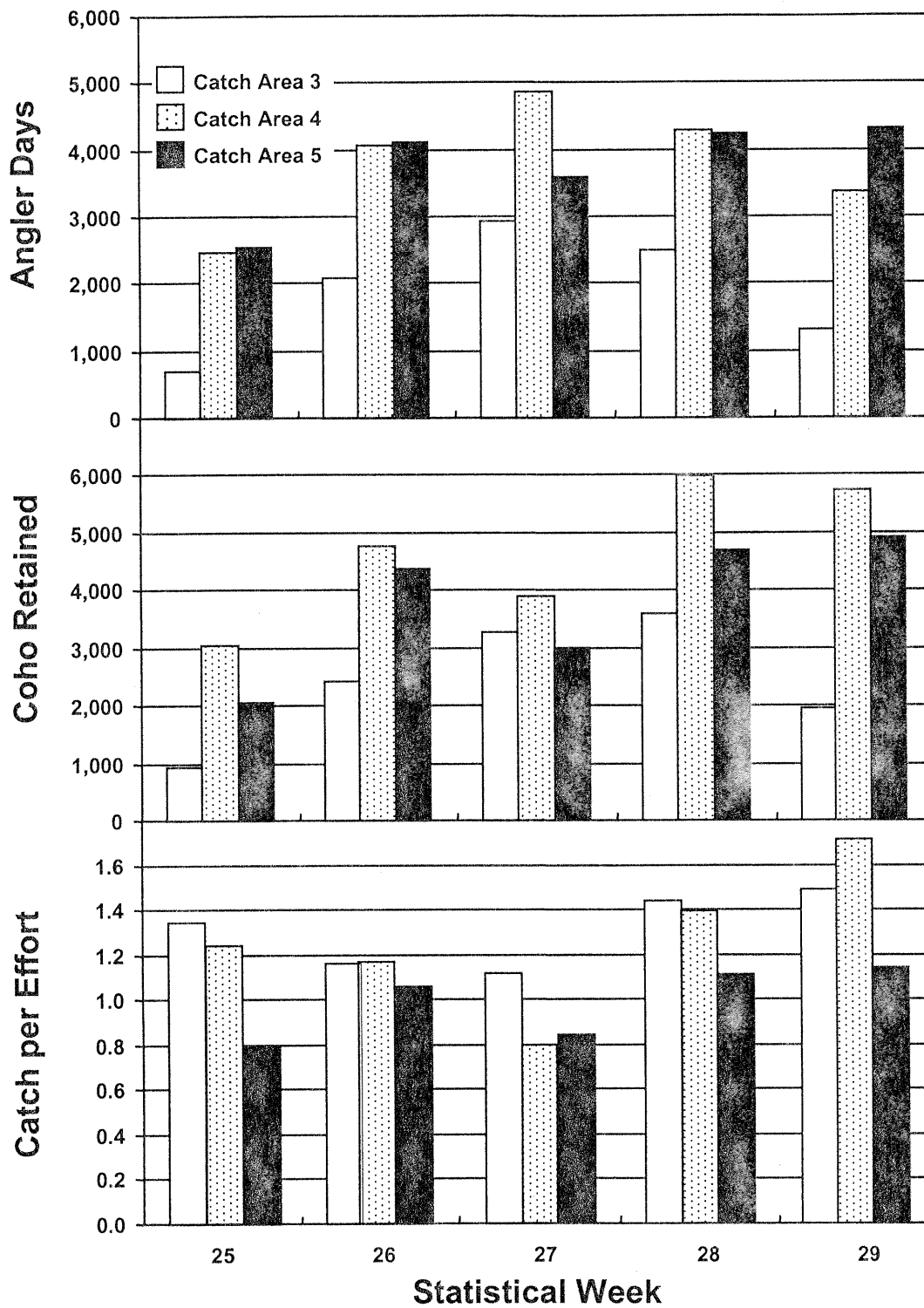


Figure 2. Effort, retained coho, and catch per effort in each statistical week and catch area during the recreational selective fishery from Cape Falcon to Humbug Mountain, Oregon, in 2001. Due to the opening and closing dates of the fishery, statistical weeks 25 and 29 were comprised of 3 and 4 days, respectively.

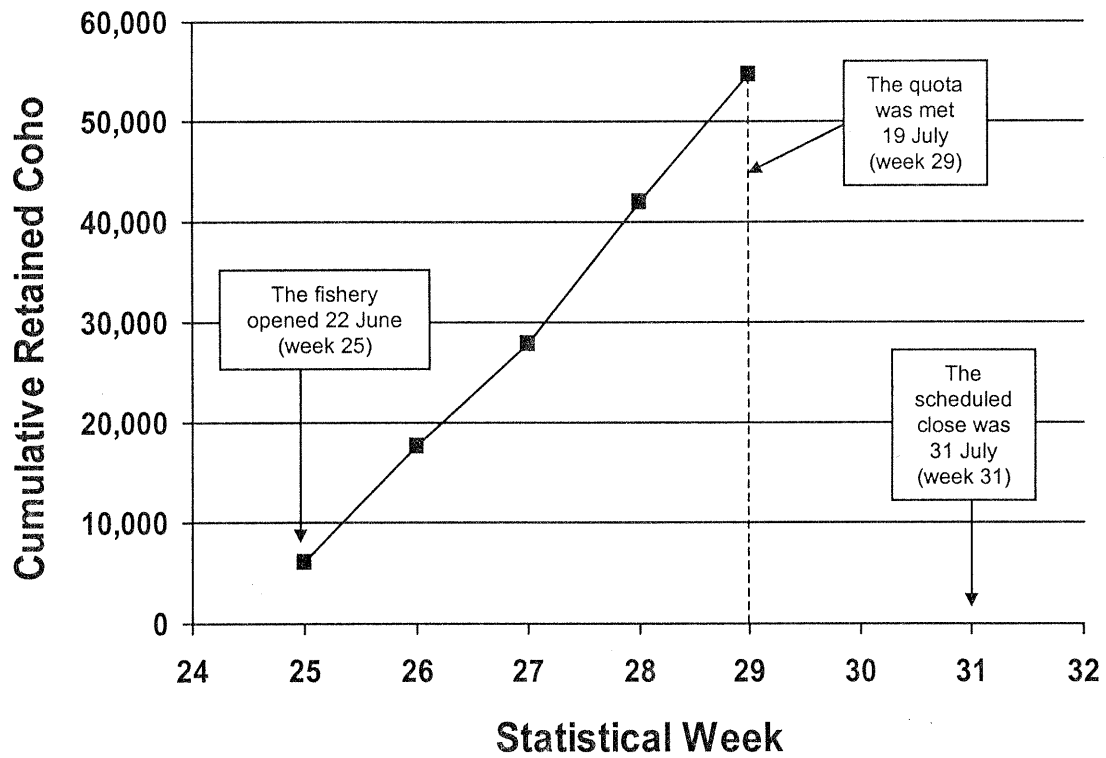


Figure 3. Cumulative coho salmon retained during the recreational selective fishery from Cape Falcon to Humbug Mountain, Oregon, in 2001. Due to the opening and closing dates of the fishery, statistical weeks 25 and 29 were comprised of 3 and 4 days, respectively.