

California Marine Life Protection Act Initiative
Draft Summary of California Department of Fish and Game –Commercial
Passenger Fishing Vessel Logbook Data
(revised January 2, 2008)

The attached data summaries are data extracts from the California Department of Fish and Game's commercial passenger fishing vessel (CPFV) logbooks for the years 2001- 2006. CPFVs, commonly called "party boats" record their catch on a trip basis in logbooks, which are submitted to CDFG. The data recorded in logbooks includes target species, fishing method, bait used, time fished, number of anglers, the fishing block ID where most fish were caught, the depth where most fish were caught, and the number of each species caught.

The data summaries provided here represent trips within the MLPA North Central Coast Study Region. Only data from fishing blocks that lie entirely within the study region or intersect the study region's boundary are included (San Francisco bay is not included). A CPFV operator may report multiple target species and multiple methods for a single trip. This data summary is provided to support the MLPA Master Plan Science Advisory Team's discussion regarding salmon fishing. Therefore, the data extraction used in this summary includes only trips where salmon was the sole target species and the method consisted either of only trolling or only mooching. Prior to 2001 depth was not field in the vessel logbooks therefore, the data extraction includes years from 2001- 2006.

These data summaries provide the total number of salmon versus "non-salmon" caught matching the above conditions. An important distinction in these summaries is that in most of the summarized data the target species "salmon" only includes Chinook salmon. In these cases coho and chum salmon were considered "non-salmon" catch. In one summary all salmon species were considered the target species; these are clearly labelled with either *Chinook* or *all salmon*. Coho are prohibited from take and thus are released. The inclusion of coho as either a target or non-target species can affect the % of "non-salmon" catch.

The summaries are divided into three categories 1) recorded depth was less than 50 m, 2) recorded depth was 50 m or greater, and 3) no depth information was recorded. Each of these categories are separated by catch that was reported as being kept and catch that was reported as being released for mooching and trolling.

The ratio of "non-salmon" to salmon is also summarized on a trip basis by placing an individual trip into bins based on this ratio. In this summary only the kept catch was used and only Chinook salmon were considered target species. Trips that were placed into the bin category 100% and over would indicate that more "non-salmon" than salmon (Chinook) were caught.

2005 and 2006 were poor salmon fishing years. These two years also have a higher proportion of "non-salmon" in the trolling catch. CPFV operators generally record the trip type or target species before leaving port. It is probable that during the course of a salmon fishing trip where salmon fishing was poor a switch to a second target species (such as rockfish) was made but the second target species may not have reported in the logbook. These records would appear as "non-salmon" catch in these data summaries.

Data Explanation (CPFV logbook data)

General: These summary tables include only trips that operated in the North Central Coast Study Region for which salmon was the sole target species. Only Chinook salmon were considered target species, other salmon species were considered non-salmon catch in this analysis.

Fishing Method: A small number of records indicate that more than one fishing method was used during a single trip. Thus, only trips that indicated either mooching as the sole fishing method were used in these summaries. Trips that used other fishing methods in combination to mooching (trolling, anchored, drifting, diving, light tackle) were excluded from this summary, since in these cases it was not possible to discern what method was in use when individuals were caught.

Depth: The Commercial Passenger Fishing Vessel Logbooks allow only one entry for depth per trip. Thus, it is unclear how well the provided depth data reflects depths at the specific location each individual was caught.

Crabs: Log books sometimes indicate that Dungeness crab, and in a very few cases, rock crabs are caught and reported with these data. The log books do not provide a gear option that is selective for crab. Often CPFV operators will fish for crab on the same day they mooch for salmon, these crab catches appear as if caught while mooching. Since this is clearly not the case these data are excluded from this summary.

Mooching Only - Summary based on number of species KEPT

Year	Depth Under 50 m				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	1284	86%	213	14%	1497
2002	3071	71%	1273	29%	4344
2003	106	56%	82	44%	188
2004	11585	95%	581	5%	12166
2005	1573	42%	2158	58%	3731
2006	152	41%	220	59%	372

Mooching Only - Summary based on number of species RELEASED

Year	Depth Under 50 m				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	90	45%	111	55%	201
2002	80	15%	460	85%	540
2003	8	57%	6	43%	14
2004	1083	94%	68	6%	1151
2005	393	76%	123	24%	516
2006	14	16%	73	84%	87

Year	Depth 50 m and Over				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	13	100%	0	0%	13
2002	1168	94%	78	6%	1246
2003	344	99%	3	1%	347
2004	1732	97%	45	3%	1777
2005	113	100%	0	0%	113
2006	245	100%	1	0%	246

Year	Depth 50 m and Over				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	6	8%	66	92%	72
2002	169	98%	4	2%	173
2003	63	100%	0	0%	63
2004	158	78%	44	22%	202
2005	21	95%	1	5%	22
2006	66	47%	74	53%	140

Year	Depth Data Missing				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	278	80%	69	20%	347
2002	670	98%	17	2%	687
2003	10	100%	0	0%	10
2004	1184	94%	73	6%	1257
2005	47	100%	0	0%	47
2006	0		0		0

Year	Depth Data Missing				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	26	50%	26	50%	52
2002	38	100%	0	0%	38
2003	3	100%	0	0%	3
2004	30	45%	36	55%	66
2005	26	100%	0	0%	26
2006	0		0		0

Data Explanation (CPFV logbook data)

General: These summary tables include only trips that operated in the North Central Coast Study Region for which salmon was the sole target species. Only Chinook salmon were considered target species, other salmon species were considered non-salmon catch in this analysis.

Fishing Method: A small number of records indicate that more than one fishing method was used during a single trip. Thus, only trips that indicated trolling as the sole fishing method were used in these summaries. Trips that used other fishing methods in combination to trolling (moching, anchored, drifting, diving, light tackle) were excluded from this summary, since in these cases it was not possible to discern what method was in use when individuals were caught.

Depth: The Commercial Passenger Fishing Vessel Logbooks allow only one entry for depth per trip. Thus, it is unclear how well the provided depth data reflects depths at the specific location each individual was caught.

Crabs: Log books sometimes indicate that Dungeness crab, and in a very few cases, rock crabs are caught and reported with these data. The log books do not provide a gear option that is selective for crab. Often CPFV operators will fish for crab on the same day they troll for salmon, these crab catches appear as if caught trolling. Since this is clearly not the case these data are excluded from this summary.

Trolling Only - Summary based on number of species KEPT

Year	Depth Under 50 m				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	5438	89%	661	11%	6099
2002	8443	95%	489	5%	8932
2003	5301	91%	518	9%	5819
2004	15059	95%	814	5%	15873
2005	11420	83%	2270	17%	13690
2006	7118	59%	4998	41%	12116

Year	Depth 50 m and Over				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	3484	98%	86	2%	3570
2002	16064	99%	190	1%	16254
2003	14531	99%	131	1%	14662
2004	18183	100%	71	0%	18254
2005	8576	99%	48	1%	8624
2006	10583	96%	397	4%	10980

Year	Depth Data Missing				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	2849	92%	257	8%	3106
2002	6945	99%	36	1%	6981
2003	4432	99%	23	1%	4455
2004	228	100%	0	0%	228
2005	273	94%	18	6%	291
2006	204	100%	0	0%	204

Trolling Only - Summary based on number of species RELEASED

Year	Depth Under 50 m				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	857	86%	134	14%	991
2002	618	82%	133	18%	751
2003	813	79%	222	21%	1035
2004	1679	79%	453	21%	2132
2005	5282	95%	261	5%	5543
2006	1990	47%	2265	53%	4255

Year	Depth 50 m and Over				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	3249	83%	678	17%	3927
2002	4153	89%	510	11%	4663
2003	5035	80%	1288	20%	6323
2004	7940	96%	358	4%	8298
2005	3942	84%	727	16%	4669
2006	3218	60%	2114	40%	5332

Year	Depth Data Missing				
	#Salmon (Chinook)	% Salmon	#Non-Salmon	% Non-Salmon	Total # Caught
2001	643	85%	116	15%	759
2002	884	75%	300	25%	1184
2003	1123	89%	144	11%	1267
2004	220	100%	0	0%	220
2005	228	89%	28	11%	256
2006	42	48%	46	52%	88

Data Explanation (CPFV logbook data)

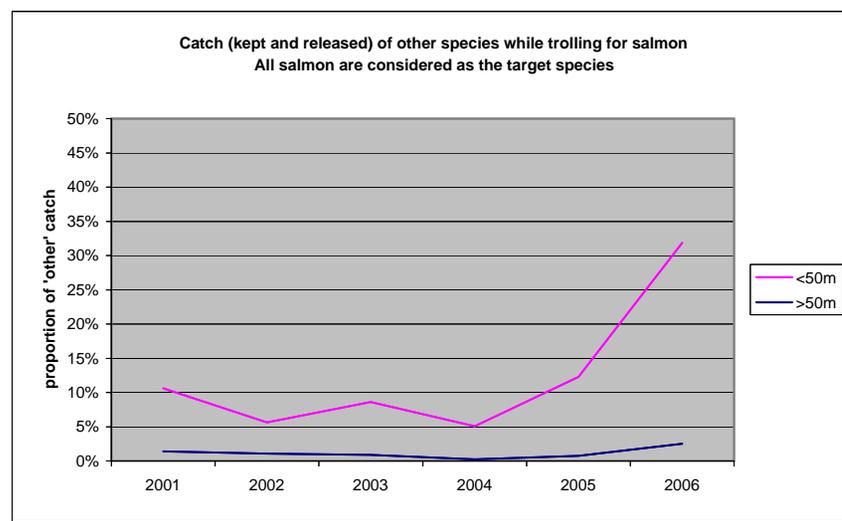
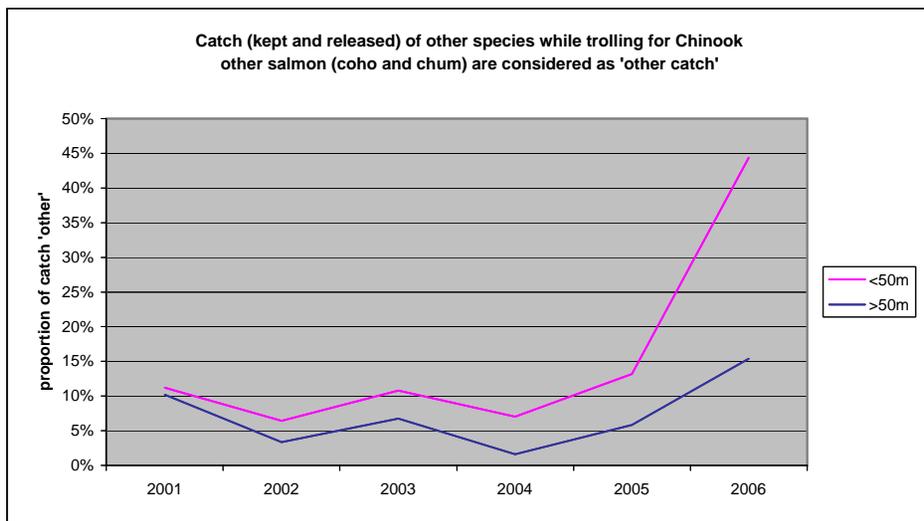
This summary includes similar data conditions for fishing method, depths, and crab as the other data in these summaries. These data include 1) Chinook as the only target species, with other salmon such as coho or chum considered as 'other catch' and 2) all salmon combined as the target species. This summary combines kept and released fish. Note that if you consider only kept fish the % of other catch drops substantially. A large portion of the 'other catch' in some years was coho salmon (the take of coho salmon is prohibited) thus inclusion of released fish increases the percent of 'other catch' in this analysis.

Trolling only based on number kept and released

Depth Under 50 m				Depth 50 m and Over				Data for all depths and no recorded depth			
	Chinook	other	% other		Chinook	other	% other		Chinook	other	% other
2001	6295	795	11%	2001	6733	764	10%	2001	16520	1932	10%
2002	9061	622	6%	2002	20217	700	3%	2002	37107	1658	4%
2003	6114	740	11%	2003	19566	1419	7%	2003	31235	2326	7%
2004	16738	1267	7%	2004	26123	429	2%	2004	43309	1696	4%
2005	16702	2531	13%	2005	12518	775	6%	2005	29721	3352	10%
2006	9108	7263	44%	2006	13801	2511	15%	2006	23155	9820	30%

Trolling only based on number kept and released

Depth Under 50 m				Depth 50 m and Over				Data for all depths and no recorded depth			
	all salmon	other	% other		all salmon	other	% other		all salmon	other	% other
2001	6337	753	11%	2001	7394	103	1%	2001	17306	1146	6%
2002	9138	545	6%	2002	20698	219	1%	2002	37965	800	2%
2003	6265	589	9%	2003	20804	181	1%	2003	32773	788	2%
2004	17091	914	5%	2004	26495	57	0%	2004	44034	971	2%
2005	16874	2359	12%	2005	13197	96	1%	2005	30600	2473	7%
2006	11158	5213	32%	2006	15903	409	3%	2006	27353	5622	17%



2001-2006 Commercial Passenger Fishing Vessel Logbook Data Summary
Number of trips by ratio of non-salmon to salmon (Chinook) caught

Mooching only; Ratios based on KEPT catch on voyages targeting salmon only

Year	<1%	1% to <5%	5% to <10%	10% to <50%	50% to <100%	100% and Over	Grand Total
2001	152	1	3	23	10	15	204
2002	271	2	12	24	4	24	337
2003	38	1		1		8	48
2004	451	30	17	20	5	10	533
2005	98		8	23	6	41	176
2006	19				1	4	24

Trolling only; Ratios based on KEPT catch on voyages targeting salmon only

Year	<1%	1% to <5%	5% to <10%	10% to <50%	50% to <100%	100% and Over	Grand Total
2001	987	3	20	49	15	35	1109
2002	1371	5	25	50	12	30	1495
2003	1439	4	17	55	23	43	1581
2004	1412	30	20	32	15	26	1535
2005	1266	9	29	56	23	93	1476
2006	1117	4	8	28	13	71	1241

Data Explanation (CPFV logbook data)

General: These summary tables include only trips that operated in the North Central Coast Region for which salmon was the sole target species. The summary provided here represents the number of trips each year in which the only target species reported in the log books was salmon taken either only by trolling or only by mooching. Only Chinook salmon were considered target species, other salmon species were considered non-salmon catch in this analysis. The ratio of non-salmon to salmon is represented by a percentage bin. Trips that fell in the bin 100% and over are trips where more non-salmon were kept than salmon.

Fishing Method: A small number of records indicate that more than one fishing method was used during a single trip. Thus, only trips which indicated that trolling or mooching was the sole fishing method were used in these summaries. Trips that used other fishing methods in combination to trolling or mooching (anchored, drifting, diving, light tackle) were excluded from this summary, since in these cases it was not possible to discern what method was in use when specific individuals were caught.

Kept vs. Released Catch: These summaries are based only on retained (kept) catch. Note that the inclusion of discarded (released) catch could change the distribution of trip counts across non-salmon to salmon ratio bins.

Trip Counts: Only trips that retained catch were included in these summaries. Trips that did not retain ANY catch are not included in these summaries, and are not included in trip counts.

Crabs: Log books sometimes indicate that Dungeness crab, and in a very few cases, rock crabs are caught and reported with these data. The log books do not provide a gear option that is selective for crab. Often CPFV operators will fish for crab on the same day they troll for salmon, these crab catches appear as if caught trolling. Since this is clearly not the case these data are excluded from this summary.

