

Draft Data Summary: Proportion of Recreational and Commercial Salmon Fishing Grounds by Depth Strata

**Prepared for the MLPA Master Plan Science Advisory Team by Ecotrust
January 7, 2008**

The following attachment includes three summary tables which provide a breakdown of the proportion of the commercial and recreational salmon fishing grounds that fall inside 0-30m, 0-40m, 0-50m. This is based on the commercial and recreational salmon fishing grounds for each port group.

The commercial statistics are found on Table 1 (Commercial Salmon Fishing Grounds Summary) and the recreational statistics are on Table 2 (Recreational Salmon Fishing Grounds Summary). Additional statistics are provided in Table 3 (Commercial Salmon Fishing Grounds and Catch by Depth Zone).

The recreational fishing grounds are stratified by region and user group in Table 2.

Regions:

Northern - Point Reyes north to Alder Creek, including Bodega Bay and Tomales Bay

Central - San Francisco Bay access points to Point Reyes

Southern - San Francisco County and south, including Pillar Point

The recreational user groups are: commercial passenger fishing vessels (CPFV), private recreational boaters, and kayak fishermen.

For each, the following are provided:

1. Percentage of the total fishing grounds area inside a depth zone,
2. Percentage of the study region fishing grounds area inside a depth zone,
3. Percentage of the total fishing grounds value inside a depth zone, and
4. Percentage of the study region fishing grounds value inside a depth zone

For example, 2.8% of the total salmon fishing grounds for Point Arena fall within the 0-30m depth zone, but when those fishing grounds are constrained to the state waters, 23.8% of the salmon grounds for Point arena fall within the 0-30m depth zone. For those same salmon grounds, 11.5% of the total value falls within 0-30m and 21.9% when constrained to state waters.

When reporting the percentage of the study region fishing grounds, the total fishing grounds were constrained to just those inside the study region. The Farallons were not included in any of the depth zones. These statistics are based on the total fishing grounds after draft MPA proposal shapes have been added together.

In addition, a breakdown of the number of fishermen and what percentage of their individual fishing grounds fall within each depth zone, classified into percentiles of 10 (plus 0% and 100%) is provided in Table 3. From the California Department of Fish and Game landing receipts, the pounds of salmon landed in the study region, 2000-06 were totaled. For each of those trips in which salmon were landed, the pounds of non-salmon species also caught and

landed were totaled. For each percentile (percentage of salmon grounds in each depth zone), an estimate of the proportion of salmon (and non-salmon) caught based on the proportion of an individual's salmon grounds that fall within each depth zone multiplied by the total lbs of salmon caught and landed in the study region is provided in the Table 3.

Commercial Salmon Fishing Grounds Summary

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	0-30 meters	0-40 meters	0-50 meters
POINT ARENA			
% of Area - Total Fishing Grounds (G)	2.8%	4.3%	5.3%
% of Area - Study Region Fishing Grounds (SA)	23.8%	36.3%	45.1%
% of Value - Total Fishing Grounds (G)	11.5%	23.9%	36.4%
% of Value - Study Region Fishing Grounds (SA)	21.9%	45.6%	69.5%
BODEGA BAY			
% of Area - Total Fishing Grounds (G)	2.2%	2.9%	3.4%
% of Area - Study Region Fishing Grounds (SA)	44.9%	58.7%	68.1%
% of Value - Total Fishing Grounds (G)	10.9%	20.1%	26.1%
% of Value - Study Region Fishing Grounds (SA)	27.8%	51.4%	66.5%
BOLINAS			
% of Area - Total Fishing Grounds (G)	4.3%	6.2%	7.3%
% of Area - Study Region Fishing Grounds (SA)	42.2%	60.6%	71.7%
% of Value - Total Fishing Grounds (G)	33.2%	46.7%	49.7%
% of Value - Study Region Fishing Grounds (SA)	63.9%	89.8%	95.7%
SAN FRANCISCO			
% of Area - Total Fishing Grounds (G)	2.2%	2.9%	3.4%
% of Area - Study Region Fishing Grounds (SA)	44.9%	58.7%	68.2%
% of Value - Total Fishing Grounds (G)	7.2%	11.1%	13.3%
% of Value - Study Region Fishing Grounds (SA)	36.3%	56.1%	66.8%
HALF MOON BAY			
% of Area - Total Fishing Grounds (G)	2.5%	3.3%	3.8%
% of Area - Study Region Fishing Grounds (SA)	44.9%	58.7%	68.1%
% of Value - Total Fishing Grounds (G)	8.4%	13.7%	16.7%
% of Value - Study Region Fishing Grounds (SA)	31.6%	51.5%	62.7%

Recreational Salmon Fishing Grounds Summary

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	0-30 meters	0-40 meters	0-50 meters
Northern Region - CPFV			
% of Area - Total Fishing Grounds (G)	12.1%	16.5%	19.9%
% of Area - Study Region Fishing Grounds (SA)	38.5%	52.5%	63.5%
% of Value - Total Fishing Grounds (G)	7.4%	11.4%	16.2%
% of Value - Study Region Fishing Grounds (SA)	23.9%	36.5%	52.1%
Central Region - CPFV			
% of Area - Total Fishing Grounds (G)	13.7%	18.1%	20.1%
% of Area - Study Region Fishing Grounds (SA)	60.5%	79.5%	88.8%
% of Value - Total Fishing Grounds (G)	23.7%	31.5%	33.9%
% of Value - Study Region Fishing Grounds (SA)	65.1%	86.7%	93.3%
Southern Region - CPFV			
% of Area - Total Fishing Grounds (G)	12.5%	16.4%	18.1%
% of Area - Study Region Fishing Grounds (SA)	63.0%	82.4%	91.2%
% of Value - Total Fishing Grounds (G)	12.5%	16.4%	18.5%
% of Value - Study Region Fishing Grounds (SA)	64.5%	84.4%	95.2%
Northern Region - Private Boat Sport			
% of Area - Total Fishing Grounds (G)	14.7%	19.2%	22.4%
% of Area - Study Region Fishing Grounds (SA)	41.7%	54.4%	63.5%
% of Value - Total Fishing Grounds (G)	15.4%	21.1%	26.3%
% of Value - Study Region Fishing Grounds (SA)	35.4%	48.4%	60.5%
Central Region - Private Boat Sport			
% of Area - Total Fishing Grounds (G)	12.6%	16.5%	18.9%
% of Area - Study Region Fishing Grounds (SA)	53.8%	70.6%	80.8%
% of Value - Total Fishing Grounds (G)	38.4%	50.1%	53.6%
% of Value - Study Region Fishing Grounds (SA)	67.1%	87.6%	93.7%
Southern Region - Private Boat Sport			
% of Area - Total Fishing Grounds (G)	10.2%	13.4%	14.8%
% of Area - Study Region Fishing Grounds (SA)	62.3%	81.2%	89.9%
% of Value - Total Fishing Grounds (G)	14.3%	18.6%	20.2%
% of Value - Study Region Fishing Grounds (SA)	68.1%	88.6%	96.2%
Northern Region - Kayak			
% of Area - Total Fishing Grounds (G)	59.9%	66.5%	73.2%
% of Area - Study Region Fishing Grounds (SA)	62.2%	69.1%	76.1%
% of Value - Total Fishing Grounds (G)	49.5%	54.5%	60.5%
% of Value - Study Region Fishing Grounds (SA)	51.4%	56.6%	62.9%
Central Region - Kayak			
% of Area - Total Fishing Grounds (G)	89.5%	97.9%	99.6%
% of Area - Study Region Fishing Grounds (SA)	93.9%	99.0%	100.0%
% of Value - Total Fishing Grounds (G)	91.3%	98.3%	99.7%
% of Value - Study Region Fishing Grounds (SA)	95.5%	99.0%	100.0%

Recreational Salmon Fishing Grounds Summary

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Southern Region - Kayak

% of Area - Total Fishing Grounds (G)	38.5%	45.1%	48.3%
% of Area - Study Region Fishing Grounds (SA)	75.2%	87.9%	94.3%
% of Value - Total Fishing Grounds (G)	62.1%	65.9%	67.2%
% of Value - Study Region Fishing Grounds (SA)	92.1%	97.7%	99.7%

Commercial Salmon Fishing Grounds and Catch by Depth Zone

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0 - 30 meters										
	# of Fishermen	% of Fishermen	% of fishing grounds, 0 - 30m	Estimated Total Proportion of Salmon Caught lbs, 0 - 30m	Estimated Total Proportion of Non-Salmon Caught lbs, 0 - 30m	Salmon Total lbs 2000-06	Rockfish Total lbs 2000-06	Ca. Halibut Total lbs 2000-06	Lingcod Total lbs 2000-06	Other Total lbs 2000-06
	20	14.5%	0%	1.51	0.00	667,546.18	40.00	0.00	0.00	1,142.00
	74	53.6%	> 0% - < 10%	126,100.90	167.39	3,002,693.91	461.25	924.30	279.60	4,740.90
	28	20.3%	> 10% - < 20%	114,197.03	2,031.86	824,203.21	1,994.45	5,658.25	422.20	4,054.00
	8	5.8%	> 20% - < 30%	32,926.54	451.01	126,880.30	186.00	867.75	128.30	582.00
	1	0.7%	> 30% - < 40%	29,561.59	6.19	95,551.20	20.00	0.00	0.00	0.00
	2	1.4%	> 40% - < 50%	74,831.04	65.70	161,482.40	123.00	36.00	0.00	0.00
	0	0.0%	> 50% - < 60%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	2.2%	> 60% - < 70%	83,686.49	559.18	120,823.20	177.00	446.17	5.00	182.00
	2	1.4%	> 70% - < 80%	7,107.14	531.23	9,292.65	0.00	610.00	0.00	109.00
	0	0.0%	> 80% - < 90%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0.0%	> 90% - < 100%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0.0%	100%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	138	100.0%		468,412.24	3,812.56	5,008,473.05	3,001.70	8,542.47	835.10	10,809.90

0 - 40 meters										
	# of Fishermen	% of Fishermen	% of fishing grounds, 0 - 40m	Estimated Total Proportion of Salmon Caught lbs, 0 - 40m	Estimated Total Proportion of Non-Salmon Caught lbs, 0 - 40m	Salmon Total lbs 2000-06	Rockfish Total lbs 2000-06	Ca. Halibut Total lbs 2000-06	Lingcod Total lbs 2000-06	Other Total lbs 2000-06
	11	8.0%	0%	38.75	0.48	443,250.70	34.00	0.00	0.00	1,130.00
	56	40.6%	> 0% - < 10%	101,505.27	198.95	2,080,708.49	238.25	710.70	152.10	4,490.90
	32	23.2%	> 10% - < 20%	152,236.23	92.68	1,197,747.91	229.00	195.60	85.50	262.00
	20	14.5%	> 20% - < 30%	108,060.64	3,064.55	476,262.70	1,707.70	5,659.25	455.00	3,796.00
	8	5.8%	> 30% - < 40%	116,352.39	172.50	333,410.15	286.75	17.00	9.20	258.00
	2	1.4%	> 40% - < 50%	39,383.34	382.39	95,900.05	20.00	867.75	38.80	7.00
	1	0.7%	> 50% - < 60%	34,974.28	445.83	66,719.30	186.00	0.00	89.50	575.00
	1	0.7%	> 60% - < 70%	15,720.04	0.00	22,875.50	0.00	0.00	0.00	0.00
	2	1.4%	> 70% - < 80%	50,552.89	119.11	67,483.40	123.00	36.00	0.00	0.00
	0	0.0%	> 80% - < 90%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5	3.6%	> 90% - < 100%	219,139.39	1,476.57	224,114.85	177.00	1,056.17	5.00	291.00
	0	0.0%	100%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	138	100.0%		837,963.22	5,953.06	5,008,473.05	3,001.70	8,542.47	835.10	10,809.90

Commercial Salmon Fishing Grounds and Catch by Depth Zone
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0 - 50 meters										
	# of Fishermen	% of Fishermen	% of fishing grounds, 0 - 50m	Estimated Total Proportion of Salmon Caught lbs, 0 - 50m	Estimated Total Proportion of Non-Salmon Caught lbs, 0 - 50m	Salmon Total lbs 2000-06	Rockfish Total lbs 2000-06	Ca. Halibut Total lbs 2000-06	Lingcod Total lbs 2000-06	Other Total lbs 2000-06
	7	5.1%	0%	32.30	0.00	270,872.65	0.00	0.00	0.00	0.00
	36	26.1%	> 0% - < 10%	79,733.90	219.91	1,514,038.91	272.25	494.00	95.30	5,282.60
	46	33.3%	> 10% - < 20%	261,912.90	199.51	1,700,460.78	213.00	355.70	132.80	600.30
	17	12.3%	> 20% - < 30%	74,298.32	153.43	308,837.42	392.50	105.60	81.50	26.00
	12	8.7%	> 30% - < 40%	100,686.62	4,073.70	313,614.24	1,331.20	5,592.25	341.00	3,770.00
	6	4.3%	> 40% - < 50%	136,509.54	263.28	309,128.95	306.75	17.00	9.20	258.00
	4	2.9%	> 50% - < 60%	67,146.99	544.29	120,181.25	0.00	867.75	38.80	7.00
	0	0.0%	> 60% - < 70%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0.0%	> 70% - < 80%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	2.2%	> 80% - < 90%	128,322.48	753.92	156,865.10	186.00	18.00	131.50	575.00
	1	0.7%	> 90% - < 100%	65,191.50	153.60	67,483.40	123.00	36.00	0.00	0.00
	6	4.3%	100%	246,990.35	1,529.17	246,990.35	177.00	1,056.17	5.00	291.00
Total	138	100.0%		1,160,824.90	7,890.81	5,008,473.05	3,001.70	8,542.47	835.10	10,809.90