

Exhibit C.10.a
Attachment 1
April 2004

**Background information relative to state management of nearshore
commercial and recreational groundfish fisheries**

Washington State Response to Achieving Quota, OY, and/or Harvest Guideline

The Washington State Legislature has granted the Washington Fish and Wildlife Commission the authority to adopt emergency regulations under the Revised Code of Washington (RCW) 77.04.090. The Fish and Wildlife Commission has delegated the authority to adopt emergency regulations to the Director of the Washington Department of Fish and Wildlife. Emergency regulations may be considered for various reasons, including the achievement of quotas, optimum yields, harvest limits or harvest guidelines, and to conform with federal regulations. The parameters for approving emergency regulations are not specified in the authority language. Emergency regulations can be adopted, filed, and in effect within 24 hours of being drafted.

Once adopted, emergency regulations are in effect for 120 days. During this time, if the regulation needs to remain in place for a longer duration, then the Department can consider adopting a permanent rule. Depending on the nature of the rule, it may have to go through the Fish and Wildlife Commission approval process. Once the permanent rule process has been initiated, a second emergency regulation can be filed to extend the time period. For example, an emergency regulation filed on March 1 that must remain in effect for the calendar year would expire on June 28. Provided that a permanent rule process has been initiated, a subsequent emergency regulation can be filed on June 29 that would remain in effect through October 26, in order to accommodate the time needed for the permanent rule process to be finalized.

Washington Administrative Code (WAC) 220-28-010 strengthens the ability to enforce emergency regulations, by stating, "It shall be unlawful to take, fish for or possess food fish or shellfish taken contrary to the provisions of any special season or emergency closed period prescribed in this chapter." A note at the end of the rule language also clarifies, "The department of fish and wildlife frequently adopts emergency rules of limited duration that relate to seasons, closures, gear, and other special matters concerning the industry...."

Once filed, copies of the emergency regulation are faxed to all Department regional offices and enforcement staff. The Department also uses its Outreach and Education program to inform the public of emergency regulations. Typically, a Fishing Rule Change notice is distributed to local media and the Department's sportfishing hotlines are updated within 24 hours of the rule adoption.

Washington Recreational Total Boat Catch by Species and Year - Ocean Areas Only (metric tons)
 (Estimates for 2002 and 2003 include released catch. Lingcod discard mortality at 5% - others at 100%)
 (Average weight for released fish is assumed to be equal to average weight of fish retained)

	1996	1997	1998	1999	2000	2001	2002 ^{1/}	2003 ^{1/}
Black Rockfish	229	180	222	150	143	171	176	176
Blue Rockfish	1	1	2	2	1	0	0	0
Bocaccio	0	0	0	0	0	1	1	0
Cabezon	3	1	4	2	3	3	6	5
Canary Rockfish	3	4	12	5	3	2	2	2
China Rockfish	1	0	1	1	1	1	1	1
Copper Rockfish	0	0	0	1	1	1	1	1
Kelp Greenling	1	0	0	1	1	1	2	1
Lingcod	52	49	27	34	28	32	41	52
Pacific Cod	0	0	1	0	0	0	5	13
Quillback Rockfish	0	0	2	2	2	0	2	1
Yelloweye Rockfish	3	5	14	18	10	14	3	4
Yellowtail Rockfish	4	6	29	6	8	4	2	7

1/ Catches currently in RecFIN reflect total mortality for all released fish, including lingcod

Washington Ocean Recreational Angler Trips (1,000s) By Boat Type
 (Includes all target trip types)

Year	Private	Charter	Total
1996	52	51	103
1997	55	50	105
1998	37	44	81
1999	52	49	101
2000	52	49	101
2001	35	33	68
2002	75	58	133
2003	90	68	158

Table 1. California recreational catch estimates (MT) for nearshore rockfish and California scorpionfish by management regions from 1983-99. The catch estimates (a+b1) are derived from MRFSS; no survey data for 1990-1993. Draft CDFG v.1.

North Coast Region¹

Species	1983	1984	1985	1986	1987	1988	1989	1993	1994	1995	1996	1997	1998	1999
Black RF	98.4	217.6	248.5	193.2	93.3	130.8	128.0	174.4	100.4	83.9	81.1	51.5	67.7	71.3
Blue RF	11.9	13.9	5.6	4.2	6.0	14.3	10.5	21.3	5.5	4.6	3.1	3.5	5.3	3.0
Total	110.3	231.4	254.1	197.4	99.2	145.1	138.5	195.6	106.0	88.6	84.2	55.0	72.9	74.4
Black-and-Yellow RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brown RF	0.2	0.5	0.4	0.5	0.4	0.6	0.3	0.7	0.1	0.0	0.1	0.1	0.0	0.1
Calico RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China RF	1.5	1.8	3.9	3.3	4.6	3.9	2.9	4.4	4.4	2.4	2.1	0.6	1.2	2.2
Copper RF	8.0	10.1	14.0	7.5	7.0	5.4	4.7	9.1	5.1	2.1	2.4	1.5	1.0	1.1
Gopher RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Grass RF	0.1	0.2	0.8	0.5	1.8	2.5	0.1	0.6	0.1	0.4	0.2	0.3	0.2	0.2
Kelp RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Olive RF	0.7	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.3	0.1	0.2
Quillback RF	17.1	6.3	7.9	5.8	3.9	1.2	6.3	16.2	1.4	1.2	2.6	2.2	1.5	3.7
Treefish	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0
Scorpionfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	27.6	19.1	27.2	17.8	17.8	13.7	14.5	31.1	11.4	6.2	7.7	5.1	4.1	7.5

Central Coast Region²

Species	1983	1984	1985	1986	1987	1988	1989	1993	1994	1995	1996	1997	1998	1999
Black RF	121.5	182.5	193.5	204.6	118.3	152.1	102.0	109.4	110.1	74.0	72.7	39.2	49.0	90.6
Blue RF	649.3	455.3	256.1	120.5	253.0	292.8	234.5	439.3	158.3	98.1	160.8	292.6	244.1	195.6
Total	770.8	637.9	449.5	325.1	371.3	444.9	336.5	548.7	268.3	172.1	233.5	331.8	293.1	286.2
Black-and-Yellow RF	4.7	7.1	12.9	8.7	6.6	11.2	10.1	20.6	13.3	8.7	4.2	3.7	5.9	5.0
Brown RF	81.1	101.3	119.0	107.5	82.4	216.4	83.0	63.4	14.0	26.6	33.2	46.3	40.1	55.9
Calico RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China RF	10.1	10.1	19.1	28.7	42.1	25.7	23.0	21.4	22.1	19.4	16.2	6.6	6.2	13.2
Copper RF	94.3	92.2	115.1	102.4	75.7	66.5	61.9	62.1	39.6	19.5	27.8	33.0	15.4	20.1
Gopher RF	9.7	32.7	27.1	25.4	14.5	17.6	22.7	102.6	77.5	34.1	34.9	35.2	38.0	43.5
Grass RF	1.8	3.8	8.6	9.3	32.5	21.8	4.8	15.4	5.6	5.5	7.2	6.0	4.4	2.1
Kelp RF	5.9	13.3	14.2	12.4	4.3	3.5	12.9	14.2	13.1	19.7	5.7	9.9	3.3	5.9
Olive RF	175.5	64.5	27.3	45.3	1.0	23.1	29.9	71.5	29.6	28.9	34.9	68.3	51.6	38.7
Quillback RF	22.9	4.1	4.3	7.4	1.6	0.7	3.3	19.6	2.7	1.8	1.0	1.2	1.2	1.7
Treefish	0.0	0.0	0.2	0.0	0.1	0.7	0.2	0.1	0.8	0.0	0.1	0.1	0.2	0.3
Scorpionfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	406.1	329.1	347.6	347.1	261.0	387.3	251.9	390.7	218.2	164.1	165.1	210.2	166.3	186.4

South Coast Region³

Species	1983	1984	1985	1986	1987	1988	1989	1993	1994	1995	1996	1997	1998	1999
Black RF	0.2	31.6	40.1	20.0	8.4	0.7	3.5	0.0	0.2	0.0	0.0	0.0	0.0	0.2
Blue RF	226.6	137.2	143.4	153.5	134.0	75.2	60.2	1.3	15.6	5.1	35.2	0.1	13.7	12.2
Total	226.9	168.8	183.6	173.5	142.5	75.8	63.7	1.3	15.8	5.1	35.2	0.1	13.7	12.4
Black-and-Yellow RF	10.6	21.1	19.0	5.8	1.7	1.2	1.2	0.3	0.0	0.7	0.2	0.0	0.0	0.4
Brown RF	43.3	74.2	88.6	96.5	80.8	70.0	56.2	4.0	14.6	13.4	14.6	11.4	3.3	8.9
Calico RF	0.2	0.2	0.8	0.8	0.1	0.9	0.5	0.5	1.8	1.2	0.4	0.4	0.3	0.5
China RF	5.6	3.7	4.9	10.1	6.9	4.7	7.5	0.1	0.0	0.0	0.0	0.0	0.0	0.3
Copper RF	114.1	128.5	163.5	141.8	12.5	72.9	68.1	16.2	55.2	18.5	61.2	6.3	26.6	49.6
Gopher RF	68.6	98.4	105.8	142.5	101.5	54.5	38.8	1.6	2.9	0.4	4.8	2.7	2.4	9.9
Grass RF	23.0	9.7	93.8	31.1	12.1	20.0	8.7	1.2	5.8	1.6	1.1	2.1	4.1	1.2
Kelp RF	27.8	29.9	20.1	15.8	8.2	7.2	4.1	7.7	14.7	2.2	6.5	2.7	1.6	2.1
Olive RF	111.4	135.4	111.8	77.5	65.2	30.8	21.7	13.2	19.5	5.3	7.8	1.7	4.9	5.0
Quillback RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Treefish	10.5	11.8	15.9	17.7	3.8	6.1	10.8	14.4	12.5	17.9	21.3	5.5	9.6	16.0
Scorpionfish	70.5	85.5	69.5	75.0	53.2	217.4	267.1	75.6	121.3	101.8	166.6	103.9	82.9	139.6
Total	415.2	513.0	624.3	539.5	292.8	268.3	217.6	59.2	126.9	61.2	117.9	32.7	52.8	93.9

¹-CA/OR border to Cape Mendocino; ²-Cape Mendocino to Point Conception; ³-Point Conception to US/MEX border.

Table 2. California recreational catch estimates (MT) for nearshore rockfish and California scorpionfish from 1983-1999. The catch estimates are derived from MRFSS (a+b1); no survey data for 1990-1993. Draft CDFG v1.

Species	Region	1983	1984	1985	1986	1987	1988	1989	1993	1994	1995	1996	1997	1998	1999
Black RF	North	98.4	217.6	248.5	193.2	93.3	130.8	128.0	174.4	100.4	83.9	81.1	51.5	67.7	71.3
	Central	121.5	182.5	193.5	204.6	118.3	152.1	102.0	109.4	110.1	74.0	72.7	39.2	49.0	90.6
	South	0.2	31.6	40.1	20.0	8.4	0.7	3.5	0.0	0.2	0.0	0.0	0.0	0.0	0.2
	STATE	220.1	431.7	482.1	417.8	220.0	283.5	233.5	283.8	210.7	157.9	153.8	90.7	116.7	162.1
Blue RF	North	11.9	13.9	5.6	4.2	6.0	14.3	10.5	21.3	5.5	4.6	3.1	3.5	5.3	3.0
	Central	649.3	455.3	256.1	120.5	253.0	292.8	234.5	439.3	158.3	98.1	160.8	292.6	244.1	195.6
	South	226.6	137.2	143.4	153.5	134.0	75.2	60.2	1.3	15.6	5.1	35.2	0.1	13.7	12.2
	STATE	887.9	606.4	405.1	278.2	393.0	382.3	305.2	461.9	179.4	107.8	199.1	296.2	263.1	210.8
Black-and-Yellow RF	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Central	4.7	7.1	12.9	8.7	6.6	11.2	10.1	20.6	13.3	8.7	4.2	3.7	5.9	5.0
	South	10.6	21.1	19.0	5.8	1.7	1.2	1.2	0.3	0.0	0.7	0.2	0.0	0.0	0.4
	STATE	15.4	28.2	31.9	14.5	8.4	12.5	11.3	20.9	13.3	9.5	4.5	3.7	5.9	5.3
Brown RF	North	0.2	0.5	0.4	0.5	0.4	0.6	0.3	0.7	0.1	0.0	0.1	0.1	0.0	0.1
	Central	81.1	101.3	119.0	107.5	82.4	216.4	83.0	63.4	14.0	26.6	33.2	46.3	40.1	55.9
	South	43.3	74.2	88.6	96.5	80.8	70.0	56.2	4.0	14.6	13.4	14.6	11.4	3.3	8.9
	STATE	124.6	176.0	207.9	204.5	163.6	287.0	139.6	68.1	28.7	40.1	47.9	57.8	43.4	64.9
Calico RF	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Central	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	South	0.2	0.2	0.8	0.8	0.1	0.9	0.5	0.5	1.8	1.2	0.4	0.4	0.3	0.5
	STATE	0.2	0.2	0.8	0.8	0.1	0.9	0.5	0.5	1.8	1.2	0.4	0.4	0.3	0.5
China RF	North	1.5	1.8	3.9	3.3	4.6	3.9	2.9	4.4	4.4	2.4	2.1	0.6	1.2	2.2
	Central	10.1	10.1	19.1	28.7	42.1	25.7	23.0	21.4	22.1	19.4	16.2	6.6	6.2	13.2
	South	5.6	3.7	4.9	10.1	6.9	4.7	7.5	0.1	0.0	0.0	0.0	0.0	0.0	0.3
	STATE	17.2	15.6	27.8	42.0	53.6	34.3	33.4	25.9	26.5	21.8	18.3	7.3	7.4	15.6
Copper RF	North	8.0	10.1	14.0	7.5	7.0	5.4	4.7	9.1	5.1	2.1	2.4	1.5	1.0	1.1
	Central	94.3	92.2	115.1	102.4	75.7	66.5	61.9	62.1	39.6	19.5	27.8	33.0	15.4	20.1
	South	114.1	128.5	163.5	141.8	12.5	72.9	68.1	16.2	55.2	18.5	61.2	6.3	26.6	49.6
	STATE	216.4	230.8	292.5	251.6	95.2	144.7	134.8	87.4	99.8	40.1	91.4	40.8	42.9	70.7
Gopher RF	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	Central	9.7	32.7	27.1	25.4	14.5	17.6	22.7	102.6	77.5	34.1	34.9	35.2	38.0	43.5
	South	68.6	98.4	105.8	142.5	101.5	54.5	38.8	1.6	2.9	0.4	4.8	2.7	2.4	9.9
	STATE	78.3	131.2	132.9	168.0	116.1	72.2	61.5	104.3	80.4	34.6	39.8	37.9	40.4	53.5
Grass RF	North	0.1	0.2	0.8	0.5	1.8	2.5	0.1	0.6	0.1	0.4	0.2	0.3	0.2	0.2
	Central	1.8	3.8	8.6	9.3	32.5	21.8	4.8	15.4	5.6	5.5	7.2	6.0	4.4	2.1
	South	23.0	9.7	93.8	31.1	12.1	20.0	8.7	1.2	5.8	1.6	1.1	2.1	4.1	1.2
	STATE	25.0	13.8	103.1	41.0	46.5	44.3	13.6	17.2	11.6	7.5	8.5	8.5	8.7	3.5
Kelp RF	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Central	5.9	13.3	14.2	12.4	4.3	3.5	12.9	14.2	13.1	19.7	5.7	9.9	3.3	5.9
	South	27.8	29.9	20.1	15.8	8.2	7.2	4.1	7.7	14.7	2.2	6.5	2.7	1.6	2.1
	STATE	33.7	43.2	34.3	28.2	12.5	10.7	16.9	21.8	27.8	21.8	12.2	12.5	4.9	8.1
Olive RF	North	0.7	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.3	0.1	0.2
	Central	175.5	64.5	27.3	45.3	1.0	23.1	29.9	71.5	29.6	28.9	34.9	68.3	51.6	38.7
	South	111.4	105.4	111.8	77.5	65.2	30.8	21.7	13.2	19.5	5.3	7.8	1.7	4.9	5.0
	STATE	287.6	170.0	139.2	123.0	66.2	54.0	51.6	84.8	49.1	34.2	42.8	70.2	56.6	44.0
Quillback RF	North	17.1	6.3	7.9	5.8	3.9	1.2	6.3	16.2	1.4	1.2	2.6	2.2	1.5	3.7
	Central	22.9	4.1	4.3	7.4	1.6	0.7	3.3	19.6	2.7	1.8	1.0	1.2	1.2	1.7
	South	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	STATE	40.0	10.4	12.3	13.2	5.5	1.8	9.7	35.8	4.0	3.0	3.6	3.3	2.7	5.3
Treefish	North	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0
	Central	0.0	0.0	0.2	0.0	0.1	0.7	0.2	0.1	0.8	0.0	0.1	0.1	0.2	0.3
	South	10.5	11.8	15.9	17.7	3.8	6.1	10.8	14.4	12.5	17.9	21.3	5.5	9.6	16.0
	STATE	10.5	11.8	16.4	17.7	3.9	6.8	11.1	14.5	13.6	17.9	21.4	5.6	9.9	16.3
CA Scorpionfish	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Central	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	South	70.5	85.5	69.5	75.0	53.2	217.4	267.1	75.6	121.3	101.8	166.6	103.9	82.9	139.6
	STATE	70.5	85.5	69.5	75.0	53.2	217.4	267.1	75.6	121.3	101.8	166.6	103.9	82.9	139.6

Table 3. California commercial catch estimates (MT) for nearshore rockfish and California scorpionfish from 1983-1999. The catch estimates are derived from CalCom expansion data. Draft CDFG v1.

North Coast Region

Species	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Black RF	254.4	43.0	288.0	4.7	80.4	65.7	124.2	122.4	138.8	244.4	117.2	110.9	160.9	87.1	100.8	59.2	44.5
Blue RF	25.8	0.1	21.8	0.0	0.0	0.0	0.1	1.8	1.6	102.2	59.8	27.3	11.0	28.2	35.1	21.8	14.1
Total	280.2	43.0	309.8	4.7	80.4	65.7	124.3	124.2	140.5	346.6	177.0	138.2	171.9	115.3	135.9	81.1	58.6
Black-and-Yellow RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brown RF	0.4	0.0	0.5	4.9	0.0	1.5	18.0	4.0	0.2	0.2	0.6	0.1	0.2	0.2	0.7	1.6	0.9
China RF	0.0	0.0	0.0	0.0	0.0	0.3	0.2	2.5	0.7	2.8	0.8	1.6	4.6	3.8	3.7	2.3	2.2
Copper RF	7.3	0.6	0.1	0.0	0.1	0.5	5.0	17.1	8.8	9.5	3.0	3.3	15.1	8.4	10.9	4.3	7.2
Gopher RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
Grass RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	2.1	0.3
Kelp RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Olive RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Quillback RF	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	38.0	2.8	3.7	1.5	4.7	3.5	5.6	2.0	4.9
Treefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scorpionfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0
Total	7.6	0.7	0.6	4.9	0.1	2.3	23.2	24.4	48.3	15.5	8.1	6.6	24.6	16.1	22.6	12.3	15.8

Central Coast Region

Black RF	32.8	11.4	81.0	16.8	8.0	9.1	7.7	11.9	5.7	17.0	27.6	24.6	8.2	31.1	27.3	26.7	8.7
Blue RF	30.2	12.8	152.6	15.9	8.2	7.8	31.4	26.7	35.2	79.3	74.8	42.0	23.7	15.9	28.6	26.0	21.7
Total	63.0	24.1	233.6	32.7	16.2	16.9	39.1	38.6	40.9	96.3	102.5	66.6	32.0	47.0	55.9	52.7	30.4
Black-and-Yellow RF	0.0	7.2	7.9	25.4	34.2	55.7	2.8	3.0	4.4	3.2	3.6	6.7	29.2	38.1	24.1	25.8	23.5
Brown RF	21.1	51.9	6.4	45.0	13.5	34.9	57.9	47.7	62.8	56.1	66.6	22.7	19.5	40.5	68.8	53.5	56.4
Calico RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China RF	7.2	9.6	3.0	2.5	6.0	8.5	6.3	6.2	10.1	21.0	15.5	32.0	24.1	15.0	29.9	11.0	6.0
Copper RF	44.9	25.1	23.3	10.2	12.5	17.0	27.9	25.0	42.1	59.6	66.1	27.1	26.6	42.5	34.2	23.4	12.6
Gopher RF	26.8	7.4	0.3	0.1	0.0	0.0	42.7	43.8	64.4	75.0	65.8	40.2	57.2	51.8	41.7	35.9	34.9
Grass RF	0.0	0.4	0.4	1.3	1.7	2.8	0.1	0.1	1.9	5.7	9.6	22.3	34.0	32.0	25.4	33.6	22.3
Kelp RF	0.0	1.3	1.5	4.6	6.2	10.2	0.7	0.7	0.9	1.1	9.0	6.2	6.6	6.3	3.7	3.1	1.8
Olive RF	31.0	0.1	0.0	1.6	7.0	5.8	1.5	14.2	77.0	10.7	9.6	21.0	3.6	20.3	1.4	4.8	3.1
Quillback RF	0.0	0.1	0.0	0.1	0.1	0.3	1.8	1.5	11.2	3.1	1.0	18.8	4.6	8.2	14.7	9.8	3.5
Treefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.3	0.9	0.6	0.1	0.6
Scorpionfish	0.0	0.2	0.8	0.3	0.1	0.1	0.5	0.3	0.0	0.1	0.2	1.0	0.0	0.0	5.7	0.0	0.0
Total	131.1	103.3	43.8	91.1	81.4	135.3	142.2	142.5	275.0	235.6	247.5	198.2	205.6	255.5	250.1	201.2	164.8

South Coast Region

Black RF	0.9	2.6	2.4	2.2	0.0	5.9	0.0	0.4	0.2	0.6	0.4	0.0	0.3	0.0	0.0	0.2	0.0
Blue RF	0.4	0.6	0.6	2.8	0.3	1.9	1.5	1.2	0.6	27.9	24.0	6.7	14.2	2.6	2.3	0.6	0.2
Total	1.3	3.3	3.0	5.0	0.3	7.8	1.5	1.6	0.8	28.5	24.3	6.7	14.4	2.7	2.3	0.8	0.2
Black-and-Yellow RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.2	0.4	0.0	0.0	0.5	0.0
Brown RF	6.6	8.6	0.9	0.2	0.0	1.3	0.0	0.2	0.0	0.2	0.2	0.1	0.4	0.9	0.2	0.1	0.8
Calico RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
China RF	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	1.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
Copper RF	3.1	2.7	2.9	3.8	3.4	5.1	3.7	2.7	8.4	3.3	3.5	7.2	30.5	34.5	35.3	27.5	12.6
Gopher RF	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	4.1	12.2	5.1	4.8	3.6	3.0	4.3
Grass RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	12.2	17.0	10.4	5.4	6.3	4.1
Kelp RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1
Olive RF	4.1	5.6	5.8	23.2	6.0	0.2	5.1	0.8	0.1	21.3	17.0	4.8	37.4	8.2	6.6	0.8	6.8
Quillback RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Treefish	0.0	0.0	0.0	0.0	0.4	0.0	0.8	0.0	0.3	0.8	0.7	0.2	0.4	0.0	0.9	0.1	0.4
Scorpionfish	14.4	11.2	15.4	6.9	12.9	15.6	19.5	40.0	28.8	35.0	26.5	50.2	41.1	34.7	37.7	51.1	39.3
Total	30.6	28.2	25.1	34.2	22.7	22.1	29.1	43.8	39.1	66.4	53.1	87.4	132.5	93.7	89.8	89.4	69.1

Table 4. California commercial catch estimates (MT) for nearshore rockfish and California scorpionfish from 1983-1999. The catch estimates are derived from CalCom expansion data. Draft CDFG v1.

Species	Region	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Black RF	North	254.4	43.0	288.0	4.7	80.4	65.7	124.2	122.4	138.8	244.4	117.2	110.9	160.9	87.1	100.8	59.2	44.5
	Central	32.8	11.4	81.0	16.8	8.0	9.1	7.7	11.9	5.7	17.0	27.6	24.6	8.2	31.1	27.3	26.7	8.7
	South	0.9	2.6	2.4	2.2	0.0	5.9	0.0	0.4	0.2	0.6	0.4	0.0	0.3	0.0	0.0	0.2	0.0
	STATE	288.1	56.9	371.5	23.7	88.4	80.7	131.9	134.7	144.7	262.0	145.1	135.6	169.4	118.2	128.1	86.1	53.2
Blue RF	North	25.8	0.1	21.8	0.0	0.0	0.0	0.1	1.8	1.6	102.2	59.8	27.3	11.0	28.2	35.1	21.8	14.1
	Central	30.2	12.8	152.6	15.9	8.2	7.8	31.4	26.7	35.2	79.3	74.8	42.0	23.7	15.9	28.6	26.0	21.7
	South	0.4	0.6	0.6	2.8	0.3	1.9	1.5	1.2	0.6	27.9	24.0	6.7	14.2	2.6	2.3	0.6	0.2
	STATE	56.4	13.5	175.0	18.7	8.5	9.8	33.0	29.7	37.4	209.4	158.6	75.9	48.9	46.8	66.0	48.5	35.9
Black-and-yellow RF	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Central	0.0	7.2	7.9	25.4	34.2	55.7	2.8	3.0	4.4	3.2	3.6	6.7	29.2	38.1	24.1	25.8	23.5
	South	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.2	0.4	0.0	0.0	0.5	0.0
	STATE	0.0	7.2	7.9	25.4	34.2	55.7	2.8	3.0	4.4	3.9	4.2	6.8	29.6	38.1	24.1	26.4	23.5
Brown RF	North	0.4	0.0	0.5	4.9	0.0	1.5	18.0	4.0	0.2	0.2	0.6	0.1	0.2	0.2	0.7	1.6	0.9
	Central	21.1	51.9	6.4	45.0	13.5	34.9	57.9	47.7	62.8	56.1	66.6	22.7	19.5	40.5	68.8	53.5	56.4
	South	6.6	8.6	0.9	0.2	0.0	1.3	0.0	0.2	0.0	0.2	0.2	0.1	0.4	0.9	0.2	0.1	0.8
	STATE	28.0	60.5	7.8	50.1	13.5	37.7	75.9	51.9	63.1	56.5	67.3	23.0	20.1	41.6	69.7	55.3	58.0
Calico RF	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Central	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	South	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
	STATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
China RF	North	0.0	0.0	0.0	0.0	0.0	0.3	0.2	2.5	0.7	2.8	0.8	1.6	4.6	3.8	3.7	2.3	2.2
	Central	7.2	9.6	3.0	2.5	6.0	8.5	6.3	6.2	10.1	21.0	15.5	32.0	24.1	15.0	29.9	11.0	6.0
	South	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	1.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
	STATE	7.2	9.6	3.0	2.6	6.0	8.8	6.5	8.8	12.2	23.8	16.3	33.8	28.7	18.8	33.6	13.3	8.4
Copper RF	North	7.3	0.6	0.1	0.0	0.1	0.5	5.0	17.1	8.8	9.5	3.0	3.3	15.1	8.4	10.9	4.3	7.2
	Central	44.9	25.1	23.3	10.2	12.5	17.0	27.9	25.0	42.1	59.6	66.1	27.1	26.6	42.5	34.2	23.4	12.6
	South	3.1	2.7	2.9	3.8	3.4	5.1	3.7	2.7	8.4	3.3	3.5	7.2	30.5	34.5	35.3	27.5	12.6
	STATE	55.3	28.3	26.2	14.0	16.0	22.6	36.6	44.8	59.3	72.4	72.5	37.5	72.1	85.4	80.4	55.2	32.4
Gopher RF	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
	Central	26.8	7.4	0.3	0.1	0.0	0.0	42.7	43.8	64.4	75.0	65.8	40.2	57.2	51.8	41.7	35.9	34.9
	South	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	4.1	12.2	5.1	4.8	3.6	3.0	4.3
	STATE	29.2	7.6	0.4	0.1	0.0	0.0	42.7	43.8	64.4	80.1	69.9	52.4	62.3	56.6	45.9	38.9	39.2
Grass RF	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	2.1	0.3
	Central	0.0	0.4	0.4	1.3	1.7	2.8	0.1	0.1	1.9	5.7	9.6	22.3	34.0	32.0	25.4	33.6	22.3
	South	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	12.2	17.0	10.4	5.4	6.3	4.1
	STATE	0.0	0.4	0.4	1.3	1.7	2.8	0.1	0.1	1.9	5.8	10.3	34.5	51.0	42.5	31.6	42.0	26.7
Kelp RF	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Central	0.0	1.3	1.5	4.6	6.2	10.2	0.7	0.7	0.9	1.1	9.0	6.2	6.6	6.3	3.7	3.1	1.8
	South	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1
	STATE	0.0	1.3	1.5	4.6	6.2	10.2	0.7	0.7	1.5	1.1	9.0	6.3	6.8	6.4	3.8	3.1	1.9
Olive RF	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3
	Central	31.0	0.1	0.0	1.6	7.0	5.8	1.5	14.2	77.0	10.7	9.6	21.0	3.6	20.3	1.4	4.8	3.1
	South	4.1	5.6	5.8	23.2	6.0	0.2	5.1	0.8	0.1	21.3	17.0	4.8	37.4	8.2	6.6	0.8	6.8
	STATE	35.1	5.7	5.8	24.8	13.0	6.0	6.6	15.0	77.1	32.1	26.6	25.8	41.0	28.5	8.0	5.5	10.2
Quillback RF	North	0.0	0.1	0.0	0.0	0.0	0.0	0.0	38.0	2.8	3.7	1.5	4.7	3.5	5.6	2.0	4.9	
	Central	0.0	0.1	0.0	0.1	0.1	0.3	1.8	1.5	11.2	3.1	1.0	18.8	4.6	8.2	14.7	9.8	3.5
	South	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	STATE	0.0	0.2	0.0	0.1	0.1	0.3	1.8	1.5	49.2	5.9	4.7	20.3	9.3	11.7	20.3	11.9	8.4
Treefish	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Central	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.3	0.9	0.6	0.1	0.6
	South	0.0	0.0	0.0	0.0	0.4	0.0	0.8	0.0	0.3	0.8	0.7	0.2	0.4	0.0	0.9	0.1	0.4
	STATE	0.0	0.0	0.0	0.0	0.4	0.0	0.8	0.0	0.3	0.8	1.0	0.3	0.7	1.0	1.5	0.3	1.0
CA Scorpionfish	North	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0
	Central	0.0	0.2	0.8	0.3	0.1	0.1	0.5	0.3	0.0	0.1	0.2	1.0	0.0	0.0	5.7	0.0	0.0
	South	14.4	11.2	15.4	6.9	12.9	15.6	19.5	40.0	28.8	35.0	26.5	50.2	41.1	34.7	37.7	51.1	39.3
	STATE	14.4	11.4	16.2	7.2	13.0	15.6	20.1	41.1	28.8	35.0	26.8	51.2	41.1	34.7	43.5	51.1	39.4

Table 5. California recreational catch estimates (MT) for nearshore rockfish and California scorpionfish by MRFSS management regions from 2000-2003. The catch estimates (a+b1) are derived from MRFSS. CDFG draft v.1.

Northern California¹

Species	2000	2001	2002	2003
Black RF	129.4	248.2	146.5	656.3
Blue RF	150.7	115.6	148.8	220.3
Total	280.1	363.8	295.3	876.6
Black-and-Yellow RF	8.3	7.0	7.1	10.1
Brown RF	51.2	104.8	55.5	136.2
Calico RF	0.1	0.0	0.0	0.0
China RF	18.4	16.4	16.0	17.9
Copper RF	24.2	17.2	12.6	20.6
Gopher RF	58.4	101.3	76.4	99.4
Grass RF	1.9	11.5	4.7	6.7
Kelp RF	4.1	1.9	12.1	14.6
Olive RF	53.8	42.6	127.9	32.1
Quillback RF	6.8	3.6	1.2	11.9
Treefish	0.8	1.6	1.1	0.8
CA Scorpionfish	0.0	0.0	0.0	0.0
Total	228.0	307.9	314.5	350.3

South California²

Species	2000	2001	2002	2003
Black RF	0.0	0.1	0.0	0.0
Blue RF	2.1	1.1	2.5	9.1
Total	2.1	1.2	2.5	9.1
Black-and-Yellow RF	0.2	0.2	0.3	0.0
Brown RF	7.9	10.5	11.2	13.7
Calico RF	0.1	0.0	0.0	0.0
China RF	0.0	0.0	0.0	0.0
Copper RF	22.4	16.8	10.1	16.4
Gopher RF	4.0	3.1	1.8	2.5
Grass RF	0.9	3.4	4.9	3.5
Kelp RF	3.0	6.2	9.3	7.9
Olive RF	0.5	11.2	14.7	11.2
Quillback RF	0.0	0.0	0.0	0.0
Treefish	3.7	8.9	5.2	4.9
CA Scorpionfish	89.5	113.5	102.2	87.5
Total	42.8	60.2	57.5	60.1

1-CA/OR border to Point Conception; 2-Point Conception to US/MEX border.

Table 6. California recreational catch estimates (MT) for nearshore rockfish and California California scorpionfish by MRFSS management regions from 2000-2003. The catch estimate (a+b1) are derived from MRFSS. CDFG draft v.1.

Species	Region	2000	2001	2002	2003
Black Rockfish	Northern California ¹	129.4	248.2	146.5	656.3
	South ²	0.0	0.1	0.0	0.0
	STATE	129.4	248.3	146.5	656.3
Blue Rockfish	Northern California	150.7	115.6	148.8	220.3
	South	2.1	1.1	2.5	9.1
	STATE	152.8	116.7	151.3	229.4
Black and Blue	Northern California	280.1	363.8	295.3	876.6
	South	2.1	1.2	2.5	9.1
	STATE	282.2	365.0	297.8	885.8
Black-and-Yellow Rockfish	Northern California	8.3	7.0	7.1	10.1
	South	0.2	0.2	0.3	0.0
	STATE	8.5	7.1	7.4	10.1
Brown Rockfish	Northern California	51.2	104.8	55.5	136.2
	South	7.9	10.5	11.2	13.7
	STATE	59.2	115.2	66.6	149.9
Calico Rockfish	Northern California	0.1	0.0	0.0	0.0
	South	0.1	0.0	0.0	0.0
	STATE	0.2	0.0	0.0	0.0
China Rockfish	Northern California	18.4	16.4	16.0	17.9
	South	0.0	0.0	0.0	0.0
	STATE	18.4	16.4	16.0	17.9
Copper Rockfish	Northern California	24.2	17.2	12.6	20.6
	South	22.4	16.8	10.1	16.4
	STATE	46.7	34.0	22.7	37.0
Gopher Rockfish	Northern California	58.4	101.3	76.4	99.4
	South	4.0	3.1	1.8	2.5
	STATE	62.4	104.3	78.2	101.8
Grass Rockfish	Northern California	1.9	11.5	4.7	6.7
	South	0.9	3.4	4.9	3.5
	STATE	2.8	15.0	9.6	10.2
Kelp Rockfish	Northern California	4.1	1.9	12.1	14.6
	South	3.0	6.2	9.3	7.9
	STATE	7.1	8.1	21.4	22.5
Olive Rockfish	Northern California	53.8	42.6	127.9	32.1
	South	0.5	11.2	14.7	11.2
	STATE	54.3	53.8	142.6	43.3
Quillback Rockfish	Northern California	6.8	3.6	1.2	11.9
	South	0.0	0.0	0.0	0.0
	STATE	6.8	3.6	1.2	11.9
Treefish	Northern California	0.8	1.6	1.1	0.8
	South	3.7	8.9	5.2	4.9
	STATE	4.5	10.5	6.2	5.7
CA Scorpionfish	Northern California	0.0	0.0	0.0	0.0
	South	89.5	113.5	102.2	87.5
	STATE	89.5	113.5	102.2	87.5

1-CA/OR border to Point Conception; 2-Point Conception to US/MEX border.

Table 7. California commercial catch estimates (MT) for nearshore rockfish and California scorpionfish from 2000-2003. The catch estimates are derived from CalCom expansion data. CDFG Draft V.1.

Northern California¹

Species	2000	2001	2002	2003
Black RF	46.1	99.8	94.5	57.6
Blue RF	12.8	16.2	15.2	7.5
Total	58.9	115.9	109.7	65.2
Black-and-Yellow Rockfish	18.9	10.6	9.9	7.6
Brown RF	40.9	30.3	23.2	19.9
China RF	2.6	1.6	2.3	0.6
Copper RF	6.1	10.1	9.7	2.4
Gopher RF	4.3	4.7	2.6	1.2
Grass RF	33.3	40.9	31.7	13.0
Kelp RF	15.5	12.1	9.5	10.0
Olive RF	1.1	0.9	1.0	1.0
Quillback RF	3.6	9.6	4.7	2.5
Treefish	3.5	3.2	0.7	0.1
CA Scorpionfish	0.7	1.1	1.0	0.6
Total	130.5	125.0	96.4	58.8

Southern California²

Species	2000	2001	2002	2003
Black RF	0.3	0.0	0.0	0.0
Blue RF	0.2	0.1	0.4	0.2
Total	0.5	0.2	0.4	0.2
Black-and-Yellow Rockfish	0.0	0.1	0.1	0.1
Brown RF	0.4	0.3	0.6	0.2
Calico RF	0.0	0.0	0.0	0.0
China RF	0.0	0.0	0.0	0.0
Copper RF	4.7	3.6	4.2	0.5
Gopher RF	3.1	2.3	1.0	0.3
Grass RF	12.2	10.6	7.1	3.4
Kelp RF	0.1	0.2	0.1	0.2
Olive RF	0.7	0.4	0.2	0.0
Quillback RF	0.0	0.0	0.0	0.0
Treefish	1.0	0.6	0.2	0.2
CA Scorpionfish	18.7	19.9	13.5	5.3
Total	40.8	38.0	27.1	10.2

1-CA/OR border to Point Conception; 2-Point Conception to US/MEX border.