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An update on trends in catch of Pacific salmon in Canada

by

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INTRODUCTION

Six species of Pacific salmon are harvested in Pacific region coastal waters. Sockeye, pink, and chum salmon are mainly harvested in commercial net fisheries while chinook and coho salmon are targeted by commercial troll, and (increasingly) by sport fisheries located primarily in the Strait of Georgia. Steelhead constitute a minor component of the catch, and are not discussed in this document.

In general, escapement goals are established in Canada for major sockeye, pink, and chum stocks, and fisheries are managed to meet these escapement objectives. Chinook and coho fisheries are managed to achieve specified harvest rates although escapement goals have also been established for key stocks.

This document reports data on the changes in commercial catch (numbers and total weight), recreational catch (numbers only) and aboriginal catch (numbers only) for the five major salmon species caught in British Columbian waters for the period 1952-2000.

Catch Trends

Commercial Fisheries

The 2000 Catch was 18,926 tonnes or roughly one quarter of the average catch of 65,389 tonnes for the period 1952-1999. Almost half of the 2000 catch was composed of pink (7,126 tonnes). The sockeye catch was 8,502 tonnes, approximately half of the average catch for 1952-1999 of 16,771 tonnes. The 2000 pink catch of 7,126 tonnes was well below the long term average catch of 20,177 tonnes and the odd-year cycle average catch of 22,725 tonnes. Chum salmon catch was 2,774 tonnes, approximately 20 percent of the long term average catch of 13,341 tonnes. Chinook salmon production has decreased steadily since the early 1970's and the 2000 catch of 510 tonnes was the second lowest on record and less than 13 percent of the long term average catch of 5,638 tonnes. Coho salmon catches in 2000 were severely reduced at 13 tonnes and were well below the long term average catch of 9,464 tonnes.

Reduced levels of both coho and chinook salmon production have resulted in catch restrictions since 1997. Conservation concerns resulted in no directed fisheries for coho in 2000, and harvest restrictions on fisheries that intercept coho salmon. Only incidental catches of coho salmon were allowed in 2000. Further conservation concerns for sockeye returning to the Fraser River resulted in fishery closures in 2000 to protect those stocks.

Total commercial catch, numbers and weight, is reported in Tables 1 and 2 for the period 1952-2000. Tables 3 and 4 provide a breakdown of salmon catch by major statistical area in 2000, numbers and weight. Note that weights are given as round equivalents, which implies an increase of approximately 20 percent to troll-caught fish reported previously as dressed head-on.

Recreational Fisheries

Recreational catch for 1953-2000 is given in Table 5, with a breakout by major statistical area for 2000 in Table 6. It should be noted that the locations and time periods which are surveyed vary from year to year, so it is not meaningful to look at the annual summaries as trend indicators. Chinook and coho are

the main targets of recreational anglers, but coho opportunities have been severely limited by conservation concerns since 1998.

Aboriginal Fisheries

Aboriginal catch for 1951-2000 is given in Table 7. The data for 1997-2000 are incomplete, with many areas not represented. The data for 1995 and 1996 are complete, but subject to further revision.

In general, reporting problems with aboriginal catch data make it difficult to use the annual summaries as trend indicators.

TABLES

- Table 1.** Commercial salmon catch (numbers) by species and year, 1952-2000
- Table 2.** Commercial salmon catch (weight) by species and year, 1952-2000
- Table 3.** 2000 Commercial salmon catch (numbers) by species and area
- Table 4.** 2000 Commercial salmon catch (weight) by species and area
- Table 5.** Recreational salmon catch (numbers) by species and year, 1953-2000
- Table 6.** 2000 Recreational salmon catch (numbers) by species and area
- Table 7.** Aboriginal salmon catch (numbers) by species and year, 1951-2000

FIGURES

- Fig. 1 a,b.** Major statistical reporting areas for Pacific salmon catches in British Columbia.

Table 1: Commercial Salmon Catch (numbers) by Species and Year, 1952-2000

Year	Chinook	Sockeye	Coho	Pink	Chum	Total
1952	906,000	4,838,000	2,752,000	11,217,000	2,479,000	22,192,000
1953	1,021,000	5,914,000	2,893,000	11,110,000	4,672,000	25,610,000
1954	880,000	6,702,000	2,445,000	5,439,000	5,838,000	21,304,000
1955	876,000	2,835,000	2,976,000	11,240,000	1,569,000	19,496,000
1956	983,000	3,257,000	3,050,000	7,352,000	2,458,000	17,100,000
1957	948,000	3,036,000	3,137,000	11,310,000	2,412,000	20,843,000
1958	1,074,000	12,045,000	2,989,000	6,908,000	3,192,000	26,207,000
1959	956,000	3,260,000	2,897,000	6,776,000	2,015,000	15,904,000
1960	753,000	2,858,000	2,030,000	4,098,000	1,837,000	11,575,000
1961	701,000	4,564,000	3,300,000	8,305,000	1,218,000	18,088,000
1962	722,000	3,499,000	3,626,000	23,429,000	1,496,000	32,771,000
1963	803,000	2,086,000	3,421,000	12,201,000	1,463,000	19,975,000
1964	965,000	3,619,000	4,148,000	9,628,000	2,253,000	20,614,000
1965	981,000	3,020,000	4,443,000	5,109,000	633,000	14,186,000
1966	1,165,000	4,020,000	5,412,000	17,261,000	1,311,000	29,169,000
1967	1,130,000	6,750,000	3,318,000	9,846,000	1,130,000	22,174,000
1968	1,083,000	6,346,000	5,262,000	20,249,000	3,095,000	36,035,000
1969	1,100,000	4,268,000	2,407,000	2,571,000	1,310,000	11,656,000
1970	1,212,000	4,078,000	3,945,000	13,601,000	3,680,000	26,518,000
1971	1,593,000	6,306,000	4,789,000	8,456,000	1,263,000	22,407,000
1972	1,549,000	3,563,000	3,356,000	13,996,000	6,031,000	28,495,000
1973	1,424,000	7,586,000	3,530,000	6,521,000	6,225,000	25,286,000
1974	1,467,000	7,225,000	3,694,000	7,374,000	2,202,000	21,962,000
1975	1,412,000	2,271,000	2,332,000	4,634,000	1,147,000	11,796,000
1976	1,543,000	4,814,000	3,698,000	10,349,000	1,901,000	22,305,000
1977	1,493,000	6,346,000	3,317,000	10,356,000	1,088,000	22,600,000
1978	1,368,000	7,222,000	3,350,000	10,748,000	2,979,000	25,666,000
1979	1,329,000	5,691,000	3,647,000	11,823,000	866,000	23,356,000
1980	1,272,000	3,260,000	3,442,000	8,419,000	3,453,000	19,846,000
1981	1,134,000	8,443,000	2,822,000	18,086,000	1,123,000	31,608,000
1982	1,241,000	10,074,000	3,177,000	2,677,000	2,975,000	20,144,000
1983	956,000	5,524,000	4,130,000	23,946,000	1,006,000	35,561,000
1984	1,011,000	5,081,000	3,602,000	7,491,000	1,851,000	19,036,000
1985	881,000	12,248,000	2,951,000	20,228,000	5,493,000	41,801,000
1986	825,000	10,557,000	4,905,000	17,978,000	5,580,000	39,844,000
1987	778,000	5,393,000	3,360,000	13,357,000	2,299,000	25,185,000
1988	738,000	4,473,000	2,745,000	23,122,000	6,189,000	37,267,000
1989	659,000	13,782,000	3,435,000	17,051,000	1,821,000	36,748,000
1990	678,000	14,197,000	3,872,000	17,257,000	3,144,000	39,148,000
1991	649,000	10,360,000	3,510,000	23,978,000	2,358,000	40,856,000
1992	697,000	8,218,000	2,963,000	10,263,000	4,023,000	26,164,000
1993	635,000	18,132,000	1,896,000	10,127,000	4,229,000	35,020,000
1994	442,000	11,570,000	2,567,000	2,207,000	4,340,000	21,127,000
1995	210,000	4,489,000	1,889,000	11,728,000	2,477,000	20,793,000
1996	61,000	5,928,000	1,411,000	5,890,000	1,368,000	14,685,000
1997	219,000	10,665,000	229,000	6,483,000	1,890,000	19,486,000
1998	157,000	1,769,000	5,000	2,409,000	4,473,000	8,812,000
1999	127,000	668,000	8,000	6,074,000	939,000	7,816,000
2000	78,000	3,352,000	3,000	4,326,000	557,000	8,316,000

Table 2: Commercial Salmon Catch (round weight, tonnes) by Species and Year, 1952-2000

Year	Chinook	Sockeye	Coho	Pink	Chum	Total
1952	6,540	14,000	10,070	23,260	14,460	68,320
1953	7,110	16,030	10,510	28,010	24,690	86,330
1954	6,120	21,330	9,380	11,680	33,750	82,260
1955	5,680	7,550	10,680	28,710	8,250	60,880
1956	6,210	9,750	11,410	13,140	12,440	52,960
1957	5,740	7,140	10,330	25,990	12,360	61,550
1958	6,450	33,620	11,200	15,380	17,290	83,940
1959	6,130	8,190	8,880	15,890	10,480	49,570
1960	4,680	7,020	6,450	7,710	9,220	35,080
1961	4,120	12,070	11,220	22,710	6,630	56,750
1962	4,110	9,120	12,070	42,450	8,190	75,940
1963	4,610	5,390	11,560	27,480	7,000	56,030
1964	6,060	10,410	14,360	16,680	10,860	58,370
1965	5,750	7,360	16,640	10,400	3,020	43,160
1966	6,950	11,660	17,550	33,330	6,970	76,450
1967	6,960	16,820	10,210	23,430	5,510	62,930
1968	6,910	18,770	15,140	25,220	16,560	82,610
1969	6,450	10,950	7,990	6,270	6,080	37,740
1970	6,570	11,420	13,650	24,020	16,770	72,430
1971	8,700	17,330	14,090	17,630	5,420	63,170
1972	8,350	9,520	10,530	18,140	30,190	76,740
1973	7,560	21,530	11,250	13,310	32,760	86,400
1974	7,640	21,690	10,380	11,210	12,480	63,400
1975	7,290	5,680	7,740	10,240	5,390	36,330
1976	7,780	12,340	9,320	17,060	10,920	57,410
1977	7,520	17,390	9,860	24,720	6,030	65,520
1978	7,890	22,320	9,150	15,330	15,860	70,550
1979	6,850	14,530	10,340	24,700	4,750	61,170
1980	6,540	7,730	9,030	13,720	16,810	53,820
1981	5,920	21,000	7,510	38,250	6,160	78,840
1982	7,090	30,140	9,300	3,980	15,090	65,600
1983	5,380	14,330	10,460	39,540	4,900	74,600
1984	6,250	12,880	10,090	12,060	9,000	50,280
1985	5,470	31,570	8,980	37,700	23,650	107,360
1986	5,010	30,830	13,240	29,510	25,200	103,780
1987	5,250	15,040	8,420	26,920	11,000	66,620
1988	5,920	11,940	7,080	32,220	30,300	87,460
1989	5,240	34,380	8,750	31,000	9,320	88,700
1990	5,230	37,130	10,570	26,240	17,180	96,350
1991	5,060	25,210	10,050	35,100	10,240	85,650
1992	5,340	20,940	7,330	14,910	17,960	66,480
1993	4,820	42,530	4,320	16,050	17,270	84,980
1994	3,530	30,560	7,700	3,350	20,080	65,210
1995	1,480	10,290	4,840	19,600	11,820	48,030
1996	464	15,523	3,866	8,597	6,519	34,968
1997	1,678	25,310	749	12,219	8,677	48,634
1998	1,401	5,059	21	3,920	19,906	30,309
1999	807	1,706	27	9,529	4,952	17,021
2000	510	8,503	13	7,126	2,774	18,926

Table 3: 2000 Commercial Salmon Catch (numbers) by Species and Area

Area	Chinook	Sockeye	Coho	Pink	Chum	Total
Area 1	90	1,441	0	56,359	1,590	59,480
Area 2E	4	362	1,718	14,059	66,281	82,424
Area 2W	9,549	11	0	492,500	34,135	536,195
Area 3	2,795	364,903	0	510,908	79,236	957,841
Area 4	18,464	1,991,846	2	348,203	28,829	2,387,347
Area 5	68	30,875	0	33,433	5,870	70,245
Area 6	7	17,383	0	1,517,420	15,530	1,550,344
Area 7	293	17	1,629	2,366	33,373	37,677
Area 8	3,208	2,559	0	67,316	47,230	120,314
Area 11		847	0	1,445	6	2,298
Area 12	321	252,683	58	1,143,262	121,892	1,518,218
Area 13	333	204,825	3	137,854	72,309	415,326
Area 14		279	0	349	165	793
Area 18	7	287	0	296	0	590
Area 20	143	65,571	0	22	38	65,810
Area 21	0	0	0	0	7,094	7,094
Area 23	10,461	22,876	0	4	17	33,358
Area 24	2,422	153	0	2	8	2,586
Area 25	9,616	322	0	0	26,786	36,724
Area 26	14,233	0	0	1	67	14,300
Area 27	436	0	0	0	55	491
Area 29AB	3,098	362,397	0	425	9,001	374,922
Area 29D	2,572	31,233	0	0	4,676	38,481
Area 29E	26	1,257	0	0	2,383	3,666
Totals	78,147	3,352,125	3,411	4,326,225	556,571	8,316,525

Table 4: 2000 Commercial Salmon Catch (round weight, tonnes) by Species and Area

Area	Chinook	Sockeye	Coho	Pink	Chum	Total
Area 1	820	4,135	0	87,230	9,284	101,469
Area 2E	31	1,003	6,974	27,525	309,018	344,550
Area 2W	87,808		0	821,657	156,766	1,066,259
		29				
Area 3	20,406	979,206	0	891,814	389,527	2,280,954
Area 4	147,545	4,797,727	9	592,986	144,902	5,683,176
Area 5	499	78,183	0	57,881	29,631	166,194
Area 6	46	43,165	0	2,543,383	79,155	2,665,759
Area 7	1,436		6,197	4,199	151,728	163,601
		41				
Area 8	33,275	6,505	0	135,463	297,160	472,403
Area 11		2,503	0	2,175	32	4,710
Area 12	1,751	708,156	171	1,756,128	579,473	3,045,687
Area 13	1,750	582,499	11	203,835	361,100	1,149,200
Area 14	0		0	573	929	2,276
		774				
Area 18	39		0	433	0	1,293
		821				
Area 20	333	172,945	0	29	132	173,527
Area 21	0	0	0	0	37,337	37,337
Area 23	41,604	55,516	0	9	87	97,216
Area 24	11,132		0	5	39	11,565
		391				
Area 25	45,743		0	0	133,268	179,881
		870				
Area 26	67,209	0	0	1	356	67,566
Area 27	1,774	0	0	0	262	2,036
Area 29AB	24,147	981,748	0	657	51,192	1,057,747
Area 29D	22,206	82,918	0	0	27,638	132,762
Area 29E	247	3,454	0	0	14,958	18,659
Totals	509,800	8,502,590	13,362	7,125,983	2,773,976	18,925,828

Table 5: Recreational Salmon Catch (numbers) by Species and Year for 1953-2000

Year	Chinook	Sockeye	Coho	Pink	Chum	Total
1953	74,400	0	130,200	0	0	204,600
1954	75,900	0	134,400	0	0	210,300
1955	89,200	0	184,600	0	0	273,800
1956	106,500	0	197,500	0	0	304,000
1957	101,300	0	252,300	10,200	0	363,700
1958	106,000	400	261,800	3,100	0	371,300
1959	93,600	0	243,000	36,800	0	373,500
1960	68,900	0	238,100	800	0	307,800
1961	46,300	100	157,200	26,500	0	230,000
1962	55,400	100	184,100	3,500	0	243,000
1963	61,000	100	197,500	111,000	0	369,500
1964	49,300	0	181,000	2,300	0	232,600
1965	52,800	100	188,600	9,600	0	251,000
1966	61,400	0	253,000	5,000	0	319,400
1967	61,300	0	169,200	29,100	900	260,500
1968	63,700	0	218,500	5,600	0	287,900
1969	66,800	1,400	143,900	36,400	0	248,400
1970	97,500	500	236,900	10,700	0	345,600
1971	85,600	200	371,100	46,000	0	503,000
1972	294,600	1,900	345,200	12,100	0	653,800
1973	281,500	4,500	384,400	51,700	0	722,200
1974	282,200	3,400	788,100	16,400	0	1,090,100
1975	439,700	2,300	469,800	28,500	0	940,300
1976	515,500	1,200	440,400	16,600	0	973,800
1977	255,000	900	255,200	33,900	1,800	546,800
1978	276,000	300	378,700	6,500	4,900	666,400
1979	188,900	2,400	407,300	89,600	1,300	689,600
1980	204,100	0	393,500	0	0	597,600
1981	197,200	0	317,100	0	0	514,300
1982	124,400	0	411,700	2,800	0	538,900
1983	198,400	0	404,000	54,900	0	657,300
1984	457,800	0	449,600	10,200	0	917,600
1985	292,800	3,000	760,200	111,800	3,100	1,170,800
1986	220,300	1,600	614,600	35,900	2,900	875,300
1987	196,500	33,200	735,700	128,000	5,500	1,098,900
1988	195,400	18,600	1,121,200	58,700	7,200	1,401,200
1989	255,000	15,000	591,700	148,900	9,400	1,020,000
1990	245,600	45,700	740,100	50,100	4,200	1,085,800
1991	206,600	107,500	232,500	297,600	5,800	850,000
1992	219,500	121,700	717,800	65,400	7,300	1,131,700
1993	226,300	131,200	879,300	181,100	4,300	1,422,100
1994	187,400	45,400	366,200	23,200	2,700	624,900
1995	152,500	18,400	197,100	198,300	6,800	573,000
1996	120,300	72,500	249,800	21,900	6,500	470,900
1997	206,400	91,700	253,000	119,400	6,300	676,800
1998	189,800	120,900	1,800	33,200	8,000	353,700
1999	170,900	5,200	19,300	88,200	5,400	288,900
2000	110,300	31,500	34,200	47,300	4,800	228,000

Table 6: 2000 Recreational Salmon Catch (numbers) by Species and Area

Area	Chinook	Sockeye	Coho	Pink	Chum	Total
AREA 1	18800	30	6650	4200	1000	30680
AREA 2E	200		1500	300	200	2200
AREA 2W	3100	10	2300	250	120	5780
AREA 3XY	1403	7	426	162	80	2078
AREA 4	418		93	2		513
AREA 5	2		2			4
AREA 6	1005	1	600	703	18	2327
AREA 7	1704	2	2626	1142	66	5540
AREA 8	2070		2698	3550	308	8626
AREA 9	1427		3997	3671	373	9468
AREA 12	5719	744	125	23519	103	30210
AREA 13	10214	5114	994	9517	2528	28367
AREA 14	5527	19	2611	2	5	8164
AREA 15	664	0	8	0	0	672
AREA 16	874	0	6	0	0	880
AREA 17	1615	0	10	10	0	1635
AREA 18	1052	0	0	2	0	1054
AREA 19	9131	932	579	240	24	10906
AREA 22	1814					1814
AREA 23	25007	24318	4542	1	4	53872
AREA 24	12212	1	637			12850
AREA 25	3476		504			3980
AREA 26	1811		58			1869
AREA 28	725	77	2763	0	0	3565
AREA 29AB	1041	225	435	0	0	1701
Totals	111011	31480	34164	47271	4829	228755

Table 7: Aboriginal Salmon Catch (numbers) by Species and Year, 1951-2000


Year	Chinook	Sockeye	Coho	Pink	Chum	Total
1951	14,300	143,000	22,100	10,500	75,500	265,400
1952	19,100	152,800	22,200	9,400	66,600	270,200
1953	21,500	170,300	25,800	12,700	47,700	278,100
1954	22,100	147,500	29,000	7,000	38,800	244,500
1955	20,500	105,100	30,900	19,800	43,100	219,400
1956	17,400	129,900	29,500	17,900	38,800	233,600
1957	18,000	182,800	30,700	39,500	50,100	321,100
1958	19,900	183,300	29,600	21,700	42,000	296,500
1959	22,100	132,100	28,400	28,800	50,000	261,400
1960	17,100	146,000	20,100	8,200	51,700	243,100
1961	16,600	208,700	27,500	41,800	40,300	334,900
1962	16,500	200,000	32,400	15,700	43,600	308,300
1963	15,900	285,800	26,200	55,400	35,400	418,600
1964	17,200	220,000	35,100	9,900	42,200	324,200
1965	16,400	199,800	46,700	43,400	38,900	345,200
1966	14,400	231,800	44,000	17,600	37,500	345,300
1967	14,700	191,100	19,600	35,700	34,800	295,900
1968	16,700	208,500	40,500	14,000	59,500	339,200
1969	18,900	245,400	23,500	31,900	35,900	355,600
1970	26,200	245,900	35,800	31,200	43,900	383,000
1971	21,700	280,600	36,500	47,000	38,600	424,300
1972	23,500	231,000	33,800	14,500	49,400	352,300
1973	22,000	285,900	27,200	66,300	49,000	450,300
1974	27,900	356,200	42,500	10,200	75,800	512,600
1975	29,900	407,100	36,500	59,000	44,200	576,800
1976	28,600	377,500	47,300	24,000	60,600	538,000
1977	36,300	434,200	36,200	51,200	54,300	612,100
1978	29,600	418,600	50,300	19,100	51,100	568,700
1979	28,000	509,300	77,100	84,100	44,200	742,700
1980	40,400	411,500	104,000	13,400	56,400	625,700
1981	39,900	644,800	98,300	88,100	68,000	939,000
1982	76,800	787,400	119,600	43,900	82,200	1,109,900
1983	65,300	650,700	76,200	207,600	68,700	1,068,400
1984	57,000	647,400	121,400	61,400	99,100	986,400
1985	54,900	760,100	85,600	158,400	102,400	1,161,400
1986	79,400	795,500	92,900	45,300	127,100	1,140,200
1987	78,400	748,200	65,900	151,200	103,400	1,147,100
1988	69,400	676,600	68,300	20,500	108,600	943,300
1989	76,900	829,500	62,300	119,700	84,000	1,172,400
1990	69,500	1,150,400	60,600	51,800	147,700	1,480,000
1991	93,700	1,027,700	61,700	177,100	92,100	1,452,200
1992	76,700	861,500	82,300	70,500	197,200	1,288,200
1993	111,100	1,522,300	95,900	37,800	655,900	2,422,800
1994	72,300	1,580,200	121,400	17,500	609,400	2,400,700
1995	38,300	851,500	117,200	186,700	143,000	1,336,700
1996	43,419	970,252	75,634	17,707	519,697	1,626,709
1997	36,175	316,762	49,896	34,853	296,080	733,766
1998	29,784	325,482	4,546	44,825	22,638	427,275
1999	68,373	492,392	25,347	105,863	57,610	749,585
2000	22,202	1,012,131	19,226	23,122	14,549	1,091,230

Figure 1 a

READ CAREFULLY

1. Reporting of all catches to the Dept. of Fisheries and Oceans is the Responsibility of the fisherman and a condition of licence renewal.
2. Accurate catch reports must include the map number or numbers showing the area in which your fish were caught.
3. The statistical areas shown on this map are to be used as a guide only. For more exact information refer to the Pacific Fishery Management Area Regulations.

● Dept of Fisheries and Oceans Office
 — Statistical areas
 — Surfline
 Note: All areas revised February 1985

 Fisheries and Oceans Pêches et Océans

 Canada

STATISTICAL AREA MAP

SHOWING AREAS OF CATCH FOR
 BRITISH COLUMBIA WATERS
 SOUTHERN HALF

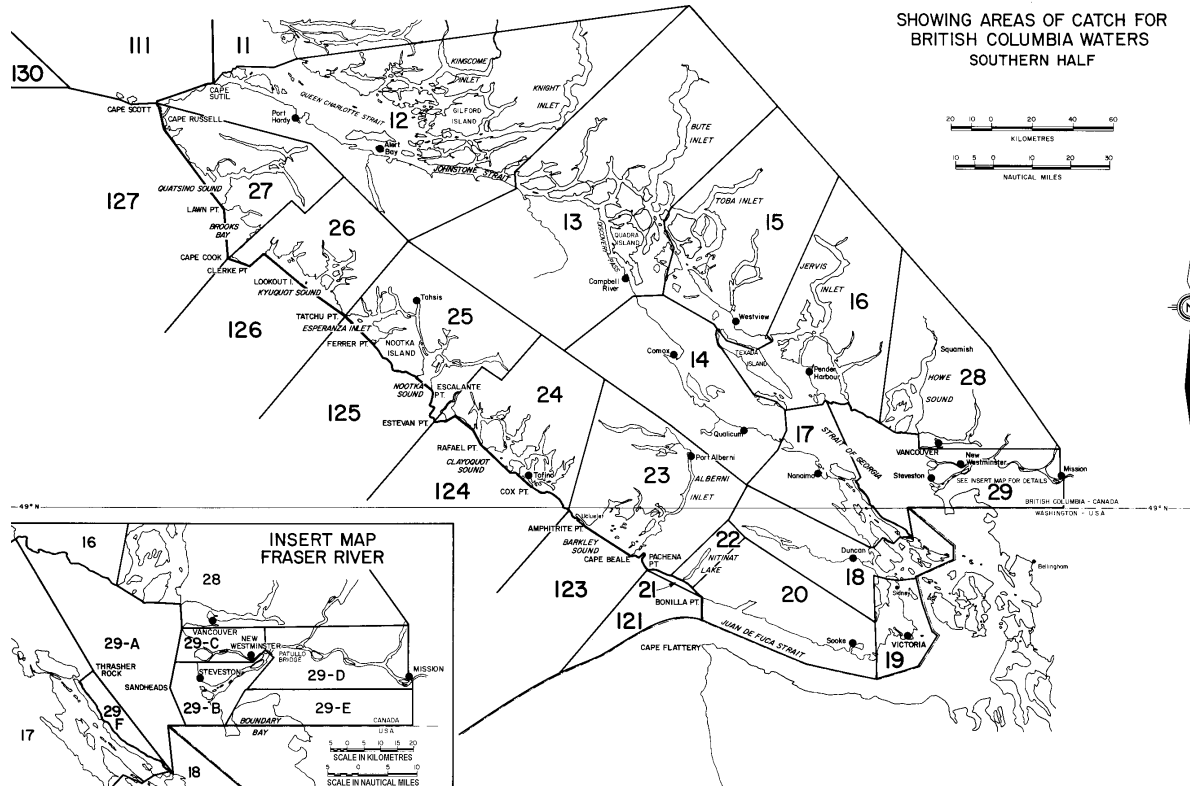


Figure 1 b

READ CAREFULLY

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