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Catch Trends and Status of North Pacific Salmon

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Abstract

The aggregate species catch in the North Pacific Ocean has been increasing since the early 1970s and above the high levels of 1930s since the late 1980s. Catches have been increasing almost steadily in coastal Japan, Russia, central Alaska, and southeast Alaska. Catches in western Alaska increased through mid-1990s and have been decreasing recently. Salmon catches in British Columbia were reasonably stable until the 1980s; but recently, and particularly for coho salmon, catches have declined. Catches in the western United States have decreasing steadily since the 1930s. The large increase in catches of salmon in the North Pacific since the 1970s is due in part to the establishment to large hatchery populations, and increasing marine survival for many wild salmon populations.

Introduction

Pacific salmon (genus *Oncorhynchus*) are an important biological and economic resource for the countries of the North Pacific rim. The natural distribution of Pacific salmon extends from San Francisco Bay, in California, northward along the Canadian and Alaskan coasts to rivers draining into the Arctic Ocean, and southward down the Asian coastal areas of Russia, Japan, and Korea. There are six species of Pacific salmon; one species (masu) occurs only in Asia, and five species (pink, sockeye, chum, coho, and chinook salmon) reproduce both in the Asian and North American continents¹. The five species that are extensively exploited in both continents are the subject of this review.

Pacific salmon spawn in gravel beds in rivers, streams, and along lake-shores. Sockeye, coho, and chinook typically migrate to sea after extended periods of rearing as juveniles in freshwater. Pink and chum salmon do not rear long in freshwater and migrate to sea soon after emergence from natal gravel beds. Pacific salmon reside between six months and six years in the ocean, depending on species, and are widely distributed in the North Pacific Ocean, Bering Sea, and Okhotsk Sea. Salmon occur north of the subtropical convergence zone of the North Pacific Ocean, and have extensive and complicated migrations while at sea (Groot and Margolis 1991).

Pacific Salmon are harvested commercially in coastal waters by Canada, Japan, North and South Korea, Russia, and the United States. Japan also harvested salmon in offshore and high seas of the western North Pacific and Central Bering Sea since the 1930s. During 1952 to 1992, the Japanese high seas salmon fisheries were controlled by measures established by two treaties: 1. The International Convention for the High Seas Fisheries of the North Pacific Ocean (INPFC Convention) involving Japan, Canada and the United States, and 2. The USSR – Japan Fisheries Agreement. Japanese High Seas Salmon fisheries were closed when the Convention for the Conservation of Anadromous

¹ Here we follow the convention of Groot and Margolis (1991) and do not report on steelhead/rainbow or cutthroat trout, even though these fish also belong to the genus *Oncorhynchus*.

Stocks in the North Pacific Ocean (NPAFC Convention), which included Japan, Russia, Canada, and the United States, came into force in 1993.

Trends in Catch and Status of Pacific Salmon

Historical commercial catches throughout the Pacific Rim before 1976 are in INPFC (1978), catches 1976 - 1992 in the annual INPFC statistical yearbooks, and catches 1993 to 2003 from a variety of sources including: annual NPAFC statistical yearbooks, Bryerly et al (1999), Colpo and Walker (2004), Eggers (2004A, 2004B), Anon. (2003, 2004A, 2004B), Irvine et al (2004). Catches, 1925 to 2003, by area, by species in numbers (Tables 1 – 5) and by species in weight (Tables 6 – 10) were assembled from the above mentioned sources. Areas include: 1. Washington, Oregon, and California, 2. British Columbia. 3. Southeast Alaska, which include areas from British Columbia to Cape Suckling, 4. Central Alaska, which includes areas from Cape Suckling to Unimak Pass, 5. Western Alaska, which includes areas north of Unimak pass, 6. Japanese mothership, landbased longline, landbased gillnet, and Sea of Japan fisheries, 7. Japanese coastal areas, 8. Japanese catch in Japanese Concessional fisheries and in coastal waters of Northern Kurils and Sakhalin, 9. Foreign fleet in Russian EEZ, 10. Russian coastal areas, and 11. Korea. Note that catches were not reported in numbers for all areas. In situations where catch numbers were not reported, catch numbers were estimated from the reported catch weights and an assumed average weight for the respective area and species. Average weights were taken to be average over the closest decade where both catch numbers and catch weights were available (see Table footnotes for specifics).

The most abundant species caught is pink salmon, followed by chum and sockeye salmon (Figure 1). Catch can be considered a surrogate for abundance of salmon (Beamish and Bouillion 1993) when exploitation and management has been consistent over time. However, since numerous factors other than abundance can affect catch, we do not advocate the use of catch data alone to assess stock status (Irvine and Chen 2004). The aggregate species catch in the North Pacific Ocean has been increasing since the lows catches of the early 1970s (Figure 1). Overall, catches of Pacific salmon, since the late mid-1980s, have been above the high levels of 1930s (Figure 1) and the status of Pacific salmon is viewed as favorable (Geiger et al 2002). Although the overall trend in catches is increasing, differences occur among species and areas. Catches have been increasing almost steadily in coastal Japan, Russia, central Alaska, and southeast Alaska (Figure 2). Catches in western Alaska increased through mid-1990s and have been decreasing recently (Figure 2). Salmon catches in British Columbia were reasonably stable until the 1980s; but recently, and particularly for coho salmon, catches have declined. Catches in the western United States have decreasing steadily since the 1930s. Catches in British Columbia and the western United States have increased substantially since the recent year record low catches observed in 2000.

The large increase in catches of salmon in the North Pacific since the 1970s is due in part to the establishment to large hatchery populations, and increasing marine survival for some wild salmon populations. For example, long-term marine survivals (adult

return/smolts) increased steadily from the 1970s to mid 1990s for Hokkaido (Kaeriyama 1998) and Honshu (Hiroi 1998) hatchery chum salmon.

Coincident with the apparent increase in the abundance of salmon in the North Pacific Ocean, there have been widespread observations of decreasing size at maturity for chum salmon. Size at maturity declined since the early 1970s for Hokkaido chum salmon (Kaeriyama 1998), for returning salmon throughout Alaska (Bigler et al. 1996), and Portland Canal chum salmon (Helle and Hoffman 1998). Walker et al. (1998) reported reduced ocean growth of salmon south of the central Aleutian Islands during a period of high salmon abundance, as determined from scale growth patterns. Coincident with the apparent increased abundance of salmon in the North Pacific, age at return has increased for Hokkaido chum salmon (Kaeriyama 1998) (Figure 3), Portland Canal chum salmon (Helle and Hoffman 1998), and Southeast Alaska hatchery chum salmon (Figure 3). Since the mid-1990s, both size at maturity and population abundance have increased, possibly indicating a climate change in the North Pacific Ocean (Helle and Hoffman 1998). These trends in size and age at return support the concept of a limited ocean carrying capacity for salmon, and that ocean carrying capacity may be changed temporally.

Brief discussions of status and catch/abundance trends for areas of the Pacific Rim follow.

Washington, Oregon, and California. Trends in the catch and status of Pacific salmon populations in Washington, Oregon, and California were reviewed by Kope and Wainwright (1998). Historically chinook and coho salmon were the most abundant species in these areas (Figure 4). The catch of chinook and coho salmon declined almost steadily since the peak catches of the 1920s. For coastal stocks the declines are more severe from north to south. The declines are also more severe from west to east and increase with the length of migration in freshwater. These species spawn and rear in freshwater, and their declines have been partly due to massive loss and alteration of freshwater habitat, through construction of hydroelectric dams, agriculture, deforestation, and urbanization (NRC 1996). Catch trends under-represent declines for wild stocks as present catches are predominantly hatchery fish, which have replaced wild stocks to a large extent. The status of wild coho, chinook, and sockeye salmon in the Pacific Northwest and California is depressed for many stocks and currently at low levels of abundance. Many stocks are listed as threatened or endangered under US Endangered Species Act.

Declining chum catches since the high numbers in the early part of the century are primarily the result of declines in Columbia River and coastal Oregon stocks. Increases in catches since the 1960s are due to increases in the catch of Puget Sound pink, chum and sockeye; although the pink and sockeye are primarily of Canadian (Fraser River) origin that pass through US waters on their return migration. Most pink, chum, and sockeye stocks from Puget Sound area are relatively healthy. There has been a marked increase in western United States salmon catch since the low levels of 2000.

British Columbia. Temporal patterns in the status of Pacific salmon populations in British Columbia were reviewed by Henderson and Graham (1998). Commercial harvests were variable but without much trend from the 1920s to the early 1980s and generally declined since from 1991 to 2000, and subsequently increased (Figure 5).

Sockeye and pink salmon account for most of the catch. However, fisheries have been increasingly managed to conserve less abundant species and stocks, especially coho and sockeye salmon. Four populations have been designated as endangered by the Committee on the Status of Endangered Wildlife in Canada: coho salmon from the interior Fraser River region, sockeye salmon from Sakinaw and Cultus lakes, and chinook salmon from the Okanogan. Conservation concerns resulted in changes in fishing patterns with decreased harvests of both abundant and less abundant species, and increased escapements for some stocks in recent years. Catches are currently at about one-half of the long-term average. Variable marine survivals play a key role in the ups and downs for many salmon populations in British Columbia (Geiger et al 2002). There has been an increase in British Columbia catches since the low levels of 2000.

Southeast Alaska. The trends and status of Southeast Alaska salmon stocks was reviewed by Van Alen (2000). Pink salmon is the most abundant salmon species in Southeast Alaska catches (Figure 6). Salmon catches declined from the 1930s through the mid-1970s, since then they have increased and presently exceed historically high levels. Southeast Alaska has seen a very large increase in chum salmon catches in the 1990s due to the establishment of large hatchery runs.

Central Alaska. Pink and sockeye salmon are the most abundant species in catches in central Alaska. Salmon catches declined steadily from the 1930s to the early 1970 (Figure 7). Numbers increased from low levels of the 1970s and in the 1980s and 1990s and recently have been at historically high levels.

Western Alaska. Sockeye salmon are the most abundant species in catches in western Alaska. Sockeye numbers were variable, peak runs were relatively stable and off-cycle runs declined during the 1920s through the 1960s, decreased to low levels in the early 1970s and increased to very high levels and were at historically high levels in the 1980s through the mid-1990s (Figure 8). Catches declined since the mid 1990s. Chum salmon is the dominant species in areas north of Bristol Bay, and runs of chum salmon in those areas declined by approximately 50 % through the 1990s (Witheral et al. 2002). Catches of chum salmon in western Alaska have been at very low levels due to fishery restrictions during low runs and lack of markets during runs with harvestable surpluses.

Japan. The history and status of Japanese salmon runs was documented by Hiroi (1998). Japan has an extensive system of hatcheries that maintain much of the salmon production. Chum salmon are the primary species produced. Hatchery production of chum salmon in Japan increased up through 1980, when production stabilized near 1.0 – 1.2 billion juveniles in Hokkaido and 0.8 to 1.0 billion juveniles in Honshu. Catches of chum salmon increased with the establishment of the hatchery runs. Catches continued to increase, from the early 1980s when production stabilized, to the mid 1990s (Figure 9)

due to increasing marine survival. Return rates to hatcheries declined in the late 1990s. Hatchery production of pink salmon in Japan increased until 1985, and remained stable at 120 – 140 million juveniles through the 1980s and 1990s. Catches of other salmon species, which originate in part from Russian and western Alaska river systems, declined after the 1950s largely because of restrictions and ultimately the closing of Japans distant water fisheries.

Russia. History and status of Russian salmon runs was documented by Radchenko (1998). Pink salmon is the most abundant species, averaging 75% of the catch. Pink salmon runs are highly variable in Russia with even year runs dominant in western Kamchatka, the Kurils, the Amur River, and Primore; and odd year runs dominant in eastern Kamchatka and eastern Sakhalin. Russian salmon catches increased steadily from the low levels of the early 1970s, and currently are at moderate levels (Figure 10). Sockeye salmon are mainly from Kamchatka and are at historically high levels of abundance.

Korea. Korean catches are from hatchery stocks of chum salmon, and since 1992 have varied from 100 to 600 metric tons (Figure 11).

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Table 1. Annual North Pacific commercial catches of pink salmon in millions of fish.

Year	North America						Asia					Pacific Total
	Wash., Ore., Cal. ¹	British Columbia	SE Alaska ²	Central Alaska ³	Western Alaska ⁴	N. Amer. Total	Japan			Russian Coastal ⁸	Asia Total	
							High seas ⁵	Coastal ⁶	Rus. Coast. ⁷			
1925	6.7	7.5	28.2	7.2	0.0	49.6		8.4	22.4	13.6	44.4	94.0
1926	0.0	13.6	32.2	21.3	0.8	67.9		11.5	115.0	31.8	158.3	226.2
1927	6.5	3.9	8.2	13.7	0.3	32.6		8.6	23.0	15.3	46.9	79.5
1928	0.0	13.9	36.1	11.1	0.0	61.1		8.3	102.3	33.2	143.8	204.9
1929	7.4	7.5	21.8	18.0	0.0	54.7	0.0	24.4	16.6	12.4	53.4	108.1
1930	0.0	19.0	43.5	15.6	0.2	78.4	0.2	11.9	61.9	49.8	123.8	202.2
1931	8.1	5.7	27.2	13.3	0.0	54.4	0.1	27.4	21.5	33.6	82.6	137.0
1932	0.0	4.4	22.6	13.0	0.2	40.3	1.3	8.6	57.2	60.1	127.3	167.5
1933	6.0	8.7	25.8	13.2	0.0	53.7	1.8	7.2	36.6	26.7	72.3	126.0
1934	0.0	8.6	50.3	22.4	0.0	81.5	1.3	7.1	99.4	35.3	143.0	224.5
1935	5.8	8.8	30.2	19.6	0.0	64.4	6.0	10.6	109.1	45.5	171.1	235.6
1936	0.0	11.7	50.7	26.2	0.5	89.2	1.0	9.9	70.7	13.9	95.6	184.8
1937	5.1	9.9	35.2	31.1	0.0	81.2	1.2	9.4	135.7	4.3	150.7	231.9
1938	0.0	8.2	30.3	24.2	0.0	62.7	1.5	10.7	110.6	19.0	141.8	204.5
1939	4.1	10.6	23.7	20.4	0.0	58.8	2.0	7.1	197.5	9.1	215.7	274.5
1940	0.0	4.0	29.1	31.4	0.3	64.8	2.5	3.8	50.9	33.8	91.0	155.7
1941	2.0	7.6	60.1	17.8	0.0	87.4	3.9	8.4	119.3	52.4	184.0	271.5
1942	0.0	4.8	33.1	21.3	0.2	59.4	4.3	5.8	68.6	53.0	131.7	191.1
1943	1.0	9.2	18.0	29.2	0.0	57.4		2.2	118.4	80.2	200.9	258.3
1944	0.0	6.1	19.3	18.3	0.1	43.8		2.3	26.2	71.1	99.6	143.5
1945	5.9	12.8	21.7	26.1	0.0	66.4		2.7	2.7	51.1	56.5	122.9
1946	0.0	2.3	24.8	21.8	0.0	48.9		1.1		25.7	26.8	75.7
1947	9.4	12.3	14.0	20.4	0.0	56.2		3.0		88.7	91.7	147.9
1948	0.0	7.0	14.4	12.8	0.1	34.3		0.7		35.0	35.7	69.9
1949	7.6	10.9	43.9	13.1	0.0	75.5		6.1		110.6	116.7	192.2
1950	0.0	6.9	9.4	10.5	0.0	26.9		3.1		24.4	27.5	54.4
1951	5.7	11.8	22.2	6.2	0.0	45.9		5.2		105.2	110.4	156.3
1952	0.0	11.2	9.8	10.0	0.0	31.1	20.8	0.5		39.5	60.8	91.9
1953	6.0	11.1	5.0	10.7	0.1	32.9	17.4	0.6		98.3	116.3	149.1
1954	0.0	5.4	8.9	13.9	0.7	28.9	20.7	0.5		31.9	53.1	82.0
1955	5.2	11.2	9.3	15.5	0.0	41.3	56.0	1.0		61.0	118.0	159.3
1956	0.0	7.4	13.7	12.6	0.1	33.8	58.0	0.9		49.8	108.7	142.5
1957	3.2	11.3	6.9	6.9	0.0	28.3	81.1	0.6		73.5	155.2	183.4
1958	0.0	6.9	9.8	15.1	1.8	33.7	64.3	7.4		26.5	98.2	131.9
1959	2.6	6.8	7.9	3.1	0.0	20.3	76.1	5.2		32.5	113.9	134.2
1960	0.0	4.1	3.0	12.7	0.8	20.6	45.5	7.0		13.5	66.0	86.6
1961	0.8	8.3	12.6	8.8	0.1	30.7	56.6	3.0		20.9	80.5	111.1
1962	0.0	23.4	11.6	31.3	3.0	69.3	35.1	3.3		10.8	49.2	118.4
1963	6.3	12.2	19.1	15.1	0.2	52.9	64.9	3.7		24.6	93.2	146.1
1964	0.0	9.6	18.6	25.1	1.8	55.1	32.8	2.2		10.6	45.7	100.8
1965	0.8	5.1	10.9	9.5	0.0	26.2	61.2	3.8		34.7	99.7	125.9

¹ Catch in Nos for Or(25-37) and Ca (25-67) estimated from respective year catch in weight divided by avg. weight (38-47 for Or, 59-68 for Ca.)

² Includes Southeast Alaska and Yakutat management areas.

³ Includes Prince William Sound, Cook Inlet, Kodiak, Chignik, and South Alaska Peninsula management areas.

⁴ Includes North Alaska Peninsula, Aleutian Islands, Bristol Bay, and AYK management areas.

⁵ Includes mothership, landbased gillnet, landbased longline, and Sea of Japan fisheries

⁶ Includes coastal and freshwater fisheries.

⁷ Includes Japanese Concessional fisheries and coastal waters of Northern Kurils, S. Sakhalin.

⁸ Catch in Nos for (1952-1961) estimated from catch in weight divided by avg. weight (62-75).

Table 1. (Continued) Annual North Pacific commercial catches of pink salmon in millions of fish.

Year	North America						Asia					Pacific Total
	Wash., Ore., Cal.	British Columbia	SE Alaska	Central Alaska	Western Alaska	North America Total	Japan		Russia		Asia Total	
							High Seas and Offshore ¹	Coastal ²	Foreign Fleet ^{3,4}	Coastal ⁵		
1966	0.0	17.3	20.4	17.1	2.6	57.4	40.3	3.9		14.0	58.2	115.6
1967	4.3	9.7	3.1	3.4	0.0	20.6	63.9	5.9		33.1	102.9	123.6
1968	0.0	20.2	25.1	17.6	3.0	65.9	38.4	4.7		10.1	53.2	119.1
1969	1.0	2.6	4.9	20.8	0.3	29.6	64.7	6.6		42.8	114.0	143.6
1970	0.0	13.6	10.7	19.9	1.2	45.4	32.6	3.7		11.1	47.4	92.8
1971	2.5	8.4	9.3	14.2	0.1	34.5	52.3	5.0		44.4	101.7	136.2
1972	0.0	14.0	12.4	3.3	0.2	29.9	28.6	2.9		13.3	44.7	74.7
1973	2.4	6.5	6.5	3.3	0.1	18.7	46.6	4.2		68.2	119.0	137.7
1974	0.0	7.4	4.9	3.8	1.2	17.2	30.0	3.1		23.9	57.0	74.3
1975	1.4	4.6	4.0	8.9	0.0	19.0	44.2	4.2		89.8	138.2	157.2
1976	0.0	10.3	5.3	18.3	1.2	35.1	20.0	2.1		39.2	61.4	96.4
1977	2.3	10.3	13.8	14.7	0.1	41.2	29.1	2.1		82.9	114.1	155.3
1978	0.0	10.7	21.2	27.0	6.0	65.1	15.5	1.4		41.5	58.4	123.5
1979	4.7	11.8	11.0	39.0	0.7	67.2	22.2	1.2		74.7	98.1	165.3
1980	0.0	8.4	14.5	45.7	5.7	74.3	20.1	1.4		57.0	78.6	152.9
1981	4.1	18.1	19.0	40.5	0.6	82.2	22.6	2.1		63.3	88.0	170.2
1982	0.0	2.7	24.2	39.0	3.2	69.0	19.4	1.2		34.4	55.0	124.0
1983	2.0	23.9	37.5	22.9	0.1	86.4	22.6	1.7		77.5	101.8	188.2
1984	0.0	7.5	24.6	49.0	5.8	86.9	17.8	2.1		40.8	60.6	147.6
1985	4.3	20.2	52.0	39.1	0.0	115.5	19.4	4.8		69.4	93.5	209.1
1986	0.0	18.0	46.2	31.1	0.5	95.8	11.0	3.5		29.5	43.9	139.7
1987	2.1	13.3	10.3	36.8	0.0	62.5	11.1	5.8		71.1	87.9	150.5
1988	0.0	23.1	11.2	38.4	1.3	74.0	9.1	4.8		29.2	43.1	117.1
1989	3.5	17.1	59.5	38.0	0.0	118.0	8.8	6.2		107.6	122.6	240.7
1990	0.0	17.2	32.3	56.1	1.0	106.7	6.5	4.6		54.7	65.8	172.5
1991	3.3	24.0	61.9	67.7	0.0	157.0	5.9	11.8		152.4	170.1	327.0
1992	0.0	10.3	35.0	25.8	1.1	72.1	2.7	11.8		62.8	77.4	149.4
1993	2.1	10.1	57.3	53.2	0.2	122.9	3.3	14.1	3.2	82.0	102.6	225.5
1994	0.0	2.2	57.3	59.4	2.2	121.1	4.0	17.5	0.6	104.3	126.3	247.4
1995	2.7	11.7	48.0	81.4	0.1	144.0	3.6	11.1	1.9	104.2	120.8	264.8
1996	0.0	5.9	64.6	33.9	0.6	105.0	3.6	18.8	0.6	81.1	104.1	209.1
1997	1.9	6.5	29.0	44.0	0.1	81.4	2.2	6.7	1.2	136.7	146.8	228.2
1998	0.0	2.4	42.5	62.4	0.7	108.0	3.8	13.3	0.6	162.8	180.5	288.5
1999	0.1	6.1	77.8	69.7	0.0	153.6	3.8	7.5	0.5	155.9	167.8	321.4
2000	0.0	4.4	20.3	55.6	0.5	80.9	2.5	15.3	0.7	110.9	129.4	210.2
2001	0.8	6.1	67.1	62.2	0.0	136.2	2.4	4.5	0.3	127.9	135.1	271.3
2002	0.0	5.3	45.3	19.0	0.0	69.6	2.9	13.7	0.9	74.5	92.0	161.6
2003	1.2	10.3	52.5	52.0	0.0	116.1	2.8	13.1	0.1	131.4	147.4	263.5

¹ Includes mothership, landbased gillnet, landbased longline, and Sea of Japan fisheries

² Includes coastal and freshwater fisheries and hatchery brood stocks.

³ Includes the Japanese driftnet fishery in Russian EEZ.

⁴ Catch in Nos for (1998-2003) estimated from catch in weight divided by avg. weight (93-97).

⁵ Catch in Nos for (1976-1992) estimated from catch in weight divided by avg. weight (62-75,93-01).

Table 2. Annual North Pacific commercial catches of chum salmon in millions of fish.

Year	North America						Asia					
	Wash., Ore., Cal. ¹	British Columbia	SE Alaska ²	Central Alaska ³	Western Alaska ⁴	N. Amer. Total	Japan		Russian	Asia	Pacific	
							High seas ⁵	Coastal ⁶	Rus. Coast. ⁷	Coastal ⁸	Total	Total
1925	1.2	5.9	8.2	2.2	0.3	17.8		4.3	7.6	3.2	15.1	32.9
1926	1.3	7.0	6.1	2.5	0.4	17.4		4.7	6.7	9.6	21.0	38.4
1927	1.3	5.5	2.2	2.6	0.3	11.9		3.9	9.2	6.9	20.0	31.9
1928	2.1	8.8	4.9	3.8	0.5	20.0		2.4	16.1	3.8	22.3	42.3
1929	2.1	4.1	2.6	5.1	0.8	14.7	0.0	3.8	16.5	9.5	29.9	44.5
1930	1.2	4.7	2.7	2.8	0.3	11.8	0.2	5.2	17.4	12.4	35.2	47.0
1931	1.0	4.1	2.9	2.1	0.7	10.7	0.4	5.5	11.2	18.6	35.7	46.4
1932	1.4	4.1	5.6	1.5	1.0	13.5	0.7	3.3	11.5	11.2	26.7	40.2
1933	0.7	3.3	4.5	2.2	0.3	11.0	1.8	2.3	12.4	9.3	25.8	36.8
1934	1.1	4.9	3.8	3.1	0.3	13.3	2.6	4.7	20.0	13.7	41.1	54.3
1935	0.9	4.7	5.1	3.2	0.1	14.0	2.9	5.6	17.6	11.2	37.3	51.3
1936	1.2	5.9	7.6	3.2	0.3	18.2	3.0	3.6	37.3	14.3	58.2	76.4
1937	1.1	4.8	5.6	2.4	0.4	14.2	2.8	3.0	25.7	12.2	43.7	57.9
1938	1.2	5.0	4.6	2.6	0.6	14.0	3.9	4.4	27.3	15.5	51.1	65.0
1939	0.5	2.8	3.4	2.7	1.0	10.4	3.8	4.6	20.7	15.9	45.0	55.5
1940	0.8	5.4	4.6	3.8	0.4	15.0	4.6	3.4	20.4	15.3	43.7	58.8
1941	1.6	5.4	3.0	2.9	0.6	13.4	3.2	2.8	19.0	14.9	39.8	53.2
1942	1.7	5.4	5.4	3.1	0.2	15.9	2.4	2.5	15.3	11.0	31.2	47.0
1943	0.6	2.7	6.8	2.2	0.4	12.8		2.1	7.0	17.3	26.4	39.2
1944	0.4	2.6	6.9	3.0	0.5	13.5		1.6	2.5	15.4	19.5	32.9
1945	0.6	2.8	3.3	3.7	1.0	11.4		2.3	0.2	17.0	19.5	30.9
1946	1.6	5.0	4.0	2.9	0.3	13.8		2.2		19.0	21.2	35.0
1947	0.8	5.7	3.4	2.6	0.3	12.7		2.7		19.2	21.9	34.6
1948	1.2	5.1	4.0	2.7	0.7	13.8		2.7		17.3	20.0	33.8
1949	0.6	3.0	2.9	2.5	0.3	9.3		3.7		22.0	25.7	35.0
1950	1.1	7.3	4.8	2.3	0.4	15.8		5.4		17.0	22.4	38.2
1951	1.1	6.5	4.1	2.0	0.5	14.2		5.9		23.1	29.0	43.1
1952	1.0	2.5	4.2	3.4	0.5	11.6	1.5	2.5		11.9	15.9	27.5
1953	0.5	4.7	3.5	3.1	0.6	12.5	4.7	2.4		9.2	16.3	28.8
1954	0.8	5.8	4.2	3.6	0.8	15.3	13.1	3.6		14.3	30.9	46.2
1955	0.4	1.6	1.5	1.8	0.3	5.6	27.5	2.5		17.8	47.8	53.4
1956	0.2	2.5	2.7	4.0	0.8	10.1	23.5	1.9		20.9	46.3	56.4
1957	0.2	2.4	3.4	4.6	0.5	11.2	18.0	3.3		8.7	30.0	41.2
1958	0.6	3.2	2.8	3.2	0.6	10.4	29.4	3.6		7.5	40.5	51.0
1959	0.5	2.0	1.3	1.9	0.9	6.6	23.4	2.2		10.3	36.0	42.6
1960	0.2	1.8	1.0	3.7	1.9	8.7	20.7	2.2		11.7	34.6	43.3
1961	0.2	1.2	2.6	2.1	1.0	7.0	13.5	3.7		9.9	27.0	34.1
1962	0.2	1.5	2.0	4.0	1.1	8.9	15.4	4.3		9.2	29.0	37.8
1963	0.3	1.5	1.5	2.4	0.6	6.2	15.2	4.5		9.4	29.2	35.4
1964	0.3	2.3	1.9	4.2	1.2	9.8	19.3	4.8		6.5	30.6	40.4
1965	0.2	0.6	1.5	1.6	0.5	4.5	15.5	6.1		8.5	30.1	34.6

¹ Catch in Nos for Or(25-37) and Ca (25-67) estimated from respective year catch in weight divided by avg. weight (38-47 for Or, 59-68 for Ca.)

² Includes Southeast Alaska and Yakutat management areas.

³ Includes Prince William Sound, Cook Inlet, Kodiak, Chignik, and South Alaska Peninsula management areas.

⁴ Includes North Alaska Peninsula, Aleutian Islands, Bristol Bay, and AYK management areas.

⁵ Includes mothership, landbased gillnet and landbased longline fisheries

⁶ Includes coastal and freshwater fisheries.

⁷ Includes Japanese Concessional fisheries and coastal waters of Northern Kurils, S. Sakhalin.

⁸ Catch in Nos for (1952-1961) estimated from catch in weight divided by avg. weight (62-75).

Table 2. (Continued) Annual North Pacific commercial catches of chum salmon in millions of fish.

Year	North America							Asia					Pacific Total
	Wash., Ore., Cal.	British Columbia	SE Alaska	Central Alaska	Western Alaska	North America Total	Japan		Russia		Korea	Asia Total	
							High Seas and Offshore ¹	Coastal ²	Foreign Fleet ^{3,4}	Coastal ⁵			
1966	0.4	1.3	3.3	2.6	0.6	8.2	22.3	5.1		7.9		35.3	43.5
1967	0.3	1.1	1.8	1.2	0.6	5.1	19.1	5.9		5.1		30.1	35.2
1968	0.5	3.1	2.6	2.8	0.6	9.7	17.3	3.1		4.4		24.8	34.5
1969	0.2	1.3	0.6	1.6	0.7	4.5	12.9	5.1		1.5		19.5	24.0
1970	0.3	3.7	2.4	3.6	1.4	11.4	17.1	6.6		3.1		26.8	38.2
1971	0.2	1.3	1.9	4.3	1.4	9.1	16.8	9.3		3.7		29.8	38.9
1972	0.9	6.0	2.9	2.7	1.4	14.0	22.4	7.9		1.7		32.0	46.0
1973	0.6	6.2	1.8	2.1	2.0	12.8	15.7	10.5		1.9		28.1	41.0
1974	0.5	2.2	1.7	0.9	2.2	7.4	21.8	13.0		2.4		37.2	44.6
1975	0.2	1.1	0.7	1.3	2.3	5.7	19.3	20.0		2.4		41.7	47.4
1976	0.8	1.9	1.0	2.2	2.6	8.6	21.9	12.4		3.6		37.9	46.5
1977	0.5	1.1	0.7	3.4	3.2	8.9	12.2	15.2		4.5		31.9	40.8
1978	1.3	3.0	0.9	2.6	3.2	10.9	7.3	18.2		6.1		31.6	42.5
1979	0.1	0.9	0.9	2.3	2.7	6.8	6.1	28.0		7.4		41.5	48.3
1980	1.0	3.4	1.7	3.6	4.3	14.0	6.3	25.7		4.9		36.9	50.9
1981	0.5	1.1	0.8	6.8	5.0	14.3	5.6	33.5		4.8	0.0	43.9	58.2
1982	1.1	3.0	1.3	6.9	2.9	15.2	6.7	29.9		4.4	0.0	41.1	56.2
1983	0.6	1.0	1.2	5.3	3.7	11.8	5.7	37.1		6.7	0.0	49.4	61.2
1984	0.8	1.8	4.1	4.4	4.6	15.7	5.8	37.8		4.2	0.0	47.8	63.5
1985	1.2	5.5	3.3	3.9	3.4	17.2	4.4	50.9		7.8	0.0	63.1	80.3
1986	1.3	5.6	3.4	6.0	3.2	19.4	3.0	46.0		7.2	0.0	56.1	75.5
1987	1.4	2.3	2.7	4.7	3.2	14.2	2.9	42.7		8.3	0.0	53.9	68.1
1988	1.8	6.2	3.5	6.5	5.1	23.1	1.8	47.2		8.1	0.0	57.2	80.3
1989	0.9	1.8	2.0	2.2	3.8	10.6	1.5	54.1		7.1	0.0	62.7	73.3
1990	1.1	3.2	2.2	3.4	2.4	12.3	1.1	66.9		8.5	0.1	76.6	88.9
1991	1.1	2.3	3.3	3.5	2.9	13.2	0.8	61.4		6.1	0.1	68.5	81.7
1992	1.5	4.0	4.9	2.9	2.4	15.7	0.0	44.3		6.0	0.1	50.4	66.2
1993	1.2	4.2	7.9	3.1	1.3	17.6	0.1	62.6	3.6	7.1	0.1	73.5	91.2
1994	1.4	4.3	10.4	4.6	1.6	22.3	0.2	63.7	5.7	8.5	0.1	78.3	100.6
1995	0.8	2.5	11.2	5.0	2.7	22.1	0.2	75.5	7.6	8.2	0.1	91.6	113.7
1996	0.8	1.4	16.0	3.7	1.5	23.5	0.2	86.7	5.6	6.5	0.2	99.2	122.7
1997	0.4	1.9	11.8	3.6	0.8	18.6	0.1	77.6	5.2	5.5	0.2	88.6	107.2
1998	0.8	4.5	15.7	2.5	0.8	24.4	0.2	59.2	4.8	7.7	0.2	72.0	96.4
1999	0.3	0.9	14.9	5.0	1.0	22.2	0.2	51.4	5.1	7.3	0.1	64.0	86.2
2000	0.3	0.6	15.9	7.8	0.7	25.2	0.2	46.1	4.6	9.6	0.0	60.4	85.7
2001	1.6	1.1	8.8	5.5	1.3	18.2	0.1	64.2	3.1	8.4	0.0	75.9	94.2
2002	2.0	2.5	7.5	8.2	0.6	20.7	0.2	55.9	2.2	10.6	0.1	68.9	89.6
2003	1.6	2.8	11.1	5.8	1.1	22.4	0.2	73.4	1.4	8.6	0.0	83.6	106.0

¹ Includes mothership, landbased gillnet and landbased longline fisheries

² Includes coastal and freshwater fisheries and hatchery brood stocks.

³ Includes the Japanese driftnet fishery in Russian EEZ.

⁴ Catch in Nos for (1998-2003) estimated from catch in weight divided by avg. weight (93-97).

⁵ Catch in Nos for (1976-1992) estimated from catch in weight divided by avg. weight (62-75,93-01).

Table 3. Annual North Pacific commercial catches of sockeye salmon in millions of fish.

Year	North America						Asia					Pacific Total
	Wash., Ore., Cal. ¹	British Columbia	SE Alaska ²	Central Alaska ³	Western Alaska ⁴	N. Amer. Total	Japan		Russian Coastal ⁷	Asia Total		
							High seas ⁵	Rus. Coast ⁶				
1925	1.4	5.2	1.8	5.0	8.3	21.8			4.3	2.9	7.2	29.1
1926	0.8	4.5	2.0	9.0	20.1	36.4			6.6	8.4	14.9	51.4
1927	1.1	3.9	1.4	4.2	11.3	22.0			6.9	2.8	9.7	31.8
1928	0.7	2.8	1.4	5.2	20.6	30.6			12.0	3.2	15.2	45.8
1929	1.4	3.5	1.9	5.0	13.1	24.8	0.0	8.0	4.6	12.6	37.4	
1930	3.4	6.5	2.6	3.4	4.4	20.2	0.3	7.9	3.6	11.8	32.0	
1931	0.8	4.1	1.8	5.5	13.6	25.7	0.6	6.1	2.8	9.5	35.2	
1932	0.9	4.4	1.7	7.8	15.9	30.6	1.3	6.2	1.6	9.0	39.7	
1933	1.6	3.5	1.0	6.1	24.1	36.3	2.0	5.2	4.2	11.4	47.7	
1934	2.7	4.6	1.2	7.3	21.7	37.6	4.9	11.0	1.5	17.4	55.0	
1935	0.7	4.6	1.9	4.9	3.5	15.6	2.5	4.1	2.5	9.1	24.7	
1936	0.6	5.3	2.4	10.8	21.2	40.2	3.9	8.4	0.9	13.2	53.4	
1937	1.1	4.2	2.2	6.8	22.1	36.4	5.8	10.2	1.4	17.4	53.8	
1938	1.7	5.3	2.5	6.5	25.7	41.7	4.3	12.4	1.6	18.3	59.9	
1939	0.7	3.3	2.5	8.2	14.1	28.7	5.6	8.6	1.6	15.8	44.6	
1940	1.1	4.3	1.5	4.8	5.4	17.0	3.2	5.7	1.2	10.1	27.1	
1941	2.3	5.2	1.7	5.3	7.6	22.1	4.3	5.7	1.6	11.6	33.7	
1942	3.1	7.7	1.6	4.9	6.3	23.7	1.3	6.6	1.9	9.9	33.5	
1943	0.3	2.0	1.1	8.0	17.9	29.3		6.6	2.7	9.2	38.5	
1944	0.4	2.4	1.7	5.6	12.0	22.1		2.8	3.2	6.0	28.1	
1945	0.8	3.6	1.7	5.6	7.7	19.4		0.3	4.1	4.4	23.8	
1946	3.7	4.8	0.9	4.6	8.7	22.7			4.5	4.5	27.2	
1947	0.5	3.9	0.7	6.2	19.0	30.3			3.5	3.5	33.8	
1948	1.2	2.8	0.5	4.3	15.0	23.9			2.1	2.1	26.0	
1949	1.3	3.0	0.5	4.8	6.6	16.1			3.0	3.0	19.1	
1950	1.4	4.5	0.6	6.5	7.3	20.3			3.2	3.2	23.5	
1951	1.3	4.4	0.8	4.1	4.7	15.3			2.6	2.6	17.9	
1952	1.3	4.8	0.9	4.3	11.7	23.1	0.7		3.3	4.0	27.0	
1953	2.1	5.9	1.4	3.8	6.7	19.8	1.6		1.8	3.4	23.2	
1954	5.0	6.7	1.2	3.4	5.0	21.3	3.8		1.4	5.2	26.5	
1955	1.1	2.8	0.7	2.8	5.1	12.7	12.5		1.1	13.6	26.3	
1956	1.1	3.3	0.9	3.6	10.3	19.2	10.3		2.0	12.3	31.5	
1957	1.8	3.0	1.1	2.2	6.6	14.7	20.1		1.2	21.3	36.1	
1958	5.5	12.0	1.0	1.6	3.5	23.6	12.9		0.4	13.3	36.9	
1959	2.0	3.3	0.9	1.9	5.2	13.4	9.9		1.4	11.3	24.7	
1960	1.3	2.9	0.6	2.8	14.4	22.0	14.5		1.4	15.9	37.9	
1961	1.5	4.6	0.7	3.0	12.3	22.1	14.2		2.8	17.0	39.1	
1962	0.8	3.5	0.8	3.5	5.0	13.6	10.8		1.4	12.2	25.8	
1963	1.4	2.1	0.7	2.4	3.1	9.7	8.9		1.2	10.1	19.9	
1964	0.6	3.6	0.9	3.2	5.8	14.1	7.2		1.0	8.2	22.3	
1965	1.1	3.0	1.1	4.2	24.5	33.8	12.2		1.5	13.7	47.5	

¹ Catch in Nos for Or(25-37) and Ca (25-67) estimated from respective year catch in weight divided by avg. weight (38-47 for Or, 59-68 for Ca).

² Includes Southeast Alaska and Yakutat management areas.

³ Includes Prince William Sound, Cook Inlet, Kodiak, Chignik, and South Alaska Peninsula management areas.

⁴ Includes North Alaska Peninsula, Aleutian Islands, Bristol Bay, and AYK management areas.

⁵ Includes mothership, landbased gillnet and landbased longline fisheries

⁶ Includes Japanese Concessional fisheries and coastal waters of Northern Kurils, S. Sakhalin.

⁷ Catch in Nos for (1952-1961) estimated from catch in weight divided by avg. weight (62-75).

Table 3. (Continued) Annual North Pacific commercial catches of sockeye salmon in millions of fish.

Year	North America						Asia				
	Wash., Ore., Cal.	British Columbia	SE Alaska	Central Alaska	Western Alaska	North America Total	Japan High Seas and Offshore ¹	Russia		Asia Total	Pacific Total
								Foreign Fleet ^{2,3}	Coastal ⁴		
1966	1.4	4.0	1.1	4.5	9.6	20.5	8.0		1.2	9.2	29.6
1967	2.2	6.7	1.0	3.0	4.6	17.5	10.7		1.0	11.7	29.2
1968	1.0	6.3	0.8	4.3	3.0	15.5	9.2		0.8	10.0	25.5
1969	1.7	4.3	0.8	3.6	7.0	17.4	8.4		0.6	9.0	26.4
1970	1.4	4.1	0.7	6.0	20.9	33.1	9.9		1.6	11.5	44.6
1971	3.2	6.3	0.6	3.6	9.9	23.7	6.6		0.8	7.4	31.0
1972	1.3	3.6	0.9	3.1	2.6	11.4	6.9		0.4	7.3	18.7
1973	2.7	7.6	1.0	2.5	0.9	14.8	5.9		0.7	6.6	21.4
1974	2.5	7.2	0.7	2.5	1.6	14.6	5.5		0.4	5.9	20.5
1975	1.7	2.3	0.2	2.0	5.2	11.4	5.2		0.5	5.7	17.2
1976	1.3	4.8	0.6	4.9	6.3	17.9	5.8		0.4	6.2	24.1
1977	1.9	6.3	1.1	6.0	5.4	20.7	2.8		0.7	3.5	24.2
1978	1.4	7.2	0.8	6.5	10.8	26.8	3.2		1.2	4.4	31.2
1979	1.8	5.7	1.1	4.2	23.5	36.2	2.9		1.0	4.0	40.2
1980	0.6	3.2	1.1	7.0	25.2	37.0	3.2		1.4	4.6	41.7
1981	1.3	8.4	1.1	7.7	27.6	46.1	3.1		1.4	4.5	50.6
1982	2.9	10.1	1.5	10.7	16.6	41.8	2.5		1.1	3.5	45.3
1983	0.4	5.5	1.6	11.6	39.6	58.6	2.5		1.6	4.0	62.7
1984	1.7	5.1	1.2	10.6	26.6	45.1	1.9		2.3	4.2	49.3
1985	3.0	12.2	1.9	10.7	26.9	54.7	1.3		3.4	4.7	59.4
1986	2.8	10.5	1.4	12.4	18.4	45.5	0.9		2.7	3.6	49.1
1987	2.0	5.4	1.4	16.6	17.4	42.8	0.8		4.3	5.1	47.9
1988	0.9	4.4	1.5	12.9	15.7	35.4	0.3		3.0	3.4	38.8
1989	2.3	13.7	2.1	11.4	30.5	60.1	0.3		3.5	3.9	64.0
1990	2.2	14.2	2.2	14.5	36.1	69.0	0.3		6.0	6.2	75.3
1991	1.8	10.3	2.1	14.2	28.4	56.8	0.2		5.2	5.5	62.3
1992	0.6	8.2	2.7	20.0	35.7	67.1	0.0		5.6	5.6	72.7
1993	2.7	18.1	3.2	16.6	44.5	85.1	0.0	2.8	5.2	8.0	93.1
1994	1.8	11.5	2.4	11.8	38.2	65.8	0.0	1.2	3.9	5.2	70.9
1995	0.4	4.4	1.8	14.0	47.7	68.4	0.0	2.1	5.2	7.3	75.7
1996	0.3	5.9	2.8	15.8	31.6	56.5	0.0	1.9	6.2	8.1	64.6
1997	1.4	10.6	2.5	14.2	14.4	43.1	0.0	3.4	3.0	6.4	49.4
1998	0.5	1.8	1.4	10.1	11.3	25.0	0.0	0.9	4.6	5.6	30.6
1999	0.0	0.7	1.2	16.0	27.5	45.4	0.0	0.9	5.5	6.4	51.7
2000	0.5	3.4	1.2	9.7	22.5	37.4	0.0	0.7	6.1	6.8	44.2
2001	0.3	2.5	2.0	9.1	15.4	29.3	0.0	0.9	6.1	7.0	36.4
2002	0.5	3.6	0.8	9.3	12.1	26.3	0.0	1.1	8.9	10.0	36.3
2003	0.3	2.3	1.5	13.1	16.3	33.6	0.0	0.7	6.7	7.4	40.9

¹ Includes mothership, landbased gillnet and landbased longline fisheries

² Includes the Japanese driftnet fishery in Russian EEZ.

³ Catch in Nos for (1998-2003) estimated from catch in weight divided by avg. weight (93-97).

⁴ Catch in Nos for (1976-1992) estimated from catch in weight divided by avg. weight (62-75,93-01).

Table 4. Annual North Pacific commercial catches of coho salmon in millions of fish.

Year	North America							Asia				Pacific Total
	Wash., Ore., Cal. ¹	British Columbia	SE Alaska ²	Central Alaska ³	Western Alaska ⁴	N. Amer.	Total	Japan		Russian Coastal ⁷	Asia Total	
								High seas ⁵	Rus. Coast. ⁶			
1925	1.75	3.08	1.21	0.74	0.02		6.80			1.30	1.30	8.10
1926	1.51	2.84	1.18	1.06	0.01		6.61			1.00	1.00	7.61
1927	1.71	2.87	1.28	1.44	0.00		7.30			1.30	1.30	8.60
1928	1.29	3.23	2.16	1.47	0.00		8.16			1.40	1.40	9.56
1929	1.43	3.24	1.37	0.70	0.06		6.79			1.20	1.20	7.99
1930	1.32	3.22	2.00	1.61	0.03		8.19			2.70	2.70	10.89
1931	1.00	1.90	1.15	0.81	0.00		4.86	0.10		1.00	1.10	5.96
1932	1.07	2.21	1.39	0.66	0.00		5.34	0.00	0.50	0.30	0.80	6.14
1933	1.04	2.38	1.22	0.69	0.02		5.35	0.00	0.40	0.20	0.60	5.95
1934	1.09	2.40	1.96	0.72	0.01		6.17	0.20	0.70	0.50	1.40	7.57
1935	2.74	3.75	1.76	0.50	0.01		8.76	0.20	1.50	0.40	2.10	10.86
1936	1.43	3.12	1.80	0.88	0.02		7.25	0.40	4.50	1.30	6.20	13.45
1937	1.53	2.33	1.40	0.58	0.00		5.83	0.30	2.80	0.90	4.00	9.83
1938	1.50	3.38	2.20	0.67	0.01		7.75	0.20	1.90	1.00	3.10	10.85
1939	1.63	2.90	1.12	0.43	0.00		6.08	0.20	1.30	0.60	2.10	8.18
1940	1.49	3.11	1.84	1.13	0.03		7.59	0.10	0.70	0.84	1.64	9.23
1941	1.59	4.38	2.52	1.39	0.04		9.91	0.00	0.60	0.57	1.17	11.07
1942	0.75	2.79	2.21	1.66	0.03		7.43	0.00	1.00	1.43	2.43	9.86
1943	0.99	2.43	1.68	0.71	0.00		5.81		0.40	0.81	1.21	7.02
1944	0.97	2.69	1.31	0.92	0.02		5.91		0.20	0.96	1.16	7.06
1945	1.34	3.92	2.59	0.88	0.02		8.74		0.00	1.46	1.46	10.20
1946	0.82	2.69	2.37	1.24	0.05		7.17			2.90	2.90	10.07
1947	1.88	2.70	1.55	0.93	0.01		7.06			1.49	1.49	8.55
1948	1.59	2.70	2.15	0.80	0.01		7.25			1.79	1.79	9.04
1949	1.45	2.89	2.28	0.67	0.03		7.32			1.91	1.91	9.23
1950	1.68	2.67	1.65	0.74	0.03		6.77			0.69	0.69	7.45
1951	1.75	4.32	3.31	0.68	0.04	10.11				0.81	0.81	10.91
1952	2.39	2.72	1.74	0.62	0.02	7.49		0.02		1.40	1.42	8.91
1953	1.68	2.87	1.16	0.41	0.00	6.13		0.34		1.98	2.32	8.45
1954	1.07	2.44	1.77	0.74	0.02	6.05		1.40		2.28	3.68	9.73
1955	1.44	2.98	1.34	0.50	0.02	6.27		3.58		1.92	5.49	11.77
1956	2.91	3.04	0.92	0.53	0.06	7.46		3.88		1.16	5.03	12.50
1957	2.18	3.14	1.22	0.34	0.07	6.95		0.44		1.58	2.02	8.97
1958	1.60	2.99	0.96	0.52	0.14	6.20		4.19		0.85	5.05	11.24
1959	1.21	2.90	1.02	0.39	0.02	5.54		2.62		1.19	3.82	9.36
1960	0.49	2.03	0.72	0.66	0.02	3.92		2.26		0.58	2.84	6.76
1961	1.47	3.30	0.89	0.38	0.04	6.08		1.78		1.38	3.16	9.24
1962	1.62	3.62	1.22	0.73	0.08	7.29		2.83		1.30	4.13	11.42
1963	1.55	3.42	1.27	0.67	0.08	6.99		3.40		2.23	5.63	12.62
1964	2.10	4.15	1.59	0.90	0.07	8.80		5.14		0.33	5.47	14.27
1965	2.57	4.44	1.55	0.43	0.02	9.01		3.08		1.03	4.11	13.12

¹ Catch in Nos for Or(25-37) and Ca (25-67) estimated from respective year catch in weight divided by avg. weight (38-47 for Or, 59-68 for Ca.)

² Includes Southeast Alaska and Yakutat management areas.

³ Includes Prince William Sound, Cook Inlet, Kodiak, Chignik, and South Alaska Peninsula management areas.

⁴ Includes North Alaska Peninsula, Aleutian Islands, Bristol Bay, and AYK management areas.

⁵ Includes mothership, landbased gillnet and landbased longline fisheries

⁶ Includes Japanese Concessional fisheries and coastal waters of Northern Kurils, S. Sakhalin.

⁷ Catch in Nos for (1952-1961) estimated from catch in weight divided by avg. weight (62-75).

Table 4. (continued) Annual North Pacific commercial catches of coho salmon in millions of fish.

Year	North America						Asia				
	Wash., Ore., Cal. ¹	British Columbia	SE Alaska	Central Alaska	Western Alaska	North America Total	Japan High Seas and Offshore ²	Russia		Asia Total	Pacific Total
								Foreign Fleet ^{3,4}	Coastal ⁵		
1966	3.12	5.40	1.23	0.61	0.08	10.44	1.97		0.90	2.87	13.31
1967	2.93	3.15	0.87	0.50	0.13	7.57	1.53		1.04	2.57	10.14
1968	2.56	5.15	1.54	0.94	0.27	10.46	2.30		0.98	3.28	13.74
1969	1.82	2.34	0.60	0.32	0.21	5.30	4.61		1.01	5.62	10.92
1970	3.47	3.35	0.76	0.67	0.09	8.34	2.48		1.63	4.11	12.44
1971	4.14	4.61	0.91	0.50	0.04	10.19	2.85		1.27	4.13	14.32
1972	2.34	3.21	1.51	0.26	0.06	7.37	3.02		0.51	3.53	10.90
1973	2.96	3.34	0.84	0.36	0.26	7.75	4.79		0.71	5.49	13.24
1974	4.08	3.51	1.28	0.34	0.24	9.45	4.69		1.16	5.85	15.30
1975	2.81	2.23	0.43	0.42	0.16	6.05	4.07		1.23	5.30	11.35
1976	4.79	3.49	0.82	0.46	0.15	9.71	3.63		1.06	4.69	14.40
1977	2.29	3.27	0.94	0.46	0.41	7.37	1.80		1.25	3.05	10.42
1978	2.45	3.35	1.71	0.73	0.37	8.62	3.12		0.73	3.85	12.47
1979	2.52	3.63	1.28	1.31	0.65	9.40	1.48		1.25	2.73	12.13
1980	2.79	3.42	1.14	1.28	0.71	9.34	1.89		0.74	2.63	11.96
1981	1.99	2.82	1.41	1.41	0.71	8.33	1.91		1.14	3.04	11.37
1982	2.49	3.17	2.04	2.61	1.32	11.64	2.39		1.17	3.56	15.19
1983	1.41	4.13	1.93	1.29	0.39	9.14	1.42		1.07	2.49	11.63
1984	1.23	3.60	1.84	1.90	1.57	10.14	1.68		1.50	3.18	13.32
1985	1.73	2.95	2.56	2.51	0.63	10.37	0.89		1.65	2.54	12.91
1986	3.23	4.90	3.40	1.89	1.00	14.42	0.54		1.02	1.56	15.99
1987	2.65	3.35	1.54	1.38	0.57	9.49	0.49		1.25	1.75	11.24
1988	2.45	2.74	1.05	2.46	0.96	9.66	0.29		0.98	1.27	10.93
1989	2.11	3.43	2.20	1.52	0.93	10.19	0.21		0.98	1.19	11.37
1990	1.60	3.87	2.87	1.96	0.65	10.94	0.21		0.81	1.02	11.97
1991	1.81	3.51	3.20	2.11	0.85	11.47	0.15		1.07	1.22	12.69
1992	0.64	2.96	3.70	2.31	1.09	10.69	0.00		1.47	1.47	12.16
1993	0.36	1.89	3.67	1.59	0.81	8.32	0.01	0.07	0.82	0.89	9.21
1994	0.56	2.55	5.72	2.68	1.15	12.65	0.01	0.01	0.84	0.86	13.52
1995	0.49	1.87	3.35	2.42	0.71	8.83	0.02	0.09	0.42	0.53	9.35
1996	0.38	1.41	3.16	1.64	1.35	7.93	0.03	0.24	0.63	0.90	8.83
1997	0.19	0.23	1.97	0.93	0.29	3.61	0.04	0.18	0.68	0.89	4.50
1998	0.23	0.00	2.99	1.22	0.47	4.91	0.01	0.26	0.57	0.85	5.76
1999	0.30	0.00	3.63	0.94	0.07	4.94	0.01	0.18	0.41	0.60	5.53
2000	0.74	0.00	1.96	1.76	0.49	4.95	0.00	0.14	0.57	0.71	5.66
2001	0.87	0.01	3.30	1.39	0.26	5.83	0.02	0.17	0.56	0.75	6.58
2002	0.68	0.12	3.24	1.69	0.12	5.86	0.00	0.05	0.52	0.57	6.43
2003	0.71	0.22	2.50	1.28	0.43	5.14	0.03	0.01	0.42	0.46	5.59

¹ Commercial Catch in Nos for (2001-2003) estimated from catch in weight divided by avg. weight (1996-2000)

² Includes mothership, landbased gillnet, landbased longline, and coastal fisheries

³ Includes the Japanese driftnet fishery in Russian EEZ.

⁴ Catch in Nos for (1998-2003) estimated from catch in weight divided by avg. weight (93-97).

⁵ Catch in Nos for (1976-1992) estimated from catch in weight divided by avg. weight (62-75,93-01).

Table 5. Annual commercial catches of Chinook salmon in millions of fish.

Year	North America						Asia					Total
	Wash., Ore., Cal. ¹	British Columbia	SE Alaska ²	Central Alaska ³	Western Alaska ⁴	N. Amer. Total	Japan		Russian Coastal ⁷	Asia Total		
							High seas ⁵	Rus. Coast. ⁶				
1925	2.55	1.04	0.60	0.10	0.10	4.39			0.04		0.04	4.43
1926	1.95	0.82	0.45	0.13	0.07	3.43			0.08		0.08	3.50
1927	2.10	0.88	0.63	0.16	0.08	3.86			0.10	0.01	0.11	3.96
1928	1.52	0.77	0.38	0.13	0.07	2.87			0.07	0.02	0.09	2.96
1929	1.55	0.66	0.46	0.13	0.15	2.95			0.08	0.03	0.11	3.06
1930	1.68	1.08	0.61	0.12	0.11	3.61	0.003		0.11	0.07	0.18	3.79
1931	1.70	0.77	0.46	0.10	0.06	3.08	0.005		0.08	0.04	0.12	3.20
1932	1.44	0.89	0.63	0.13	0.08	3.17	0.003		0.08	0.05	0.13	3.30
1933	1.62	0.77	0.43	0.10	0.06	2.98	0.001		0.04	0.02	0.05	3.03
1934	1.54	0.94	0.34	0.11	0.07	3.00	0.003		0.07	0.02	0.10	3.09
1935	1.64	0.92	0.64	0.10	0.02	3.32	0.003		0.12	0.04	0.16	3.48
1936	1.75	0.96	0.68	0.11	0.04	3.55	0.002		0.12	0.07	0.18	3.73
1937	1.94	0.87	0.88	0.12	0.04	3.85	0.002		0.15		0.16	4.01
1938	1.26	0.77	0.76	0.09	0.06	2.93	0.003		0.12		0.12	3.05
1939	1.21	0.75	0.65	0.09	0.04	2.75	0.002		0.07		0.07	2.82
1940	1.69	0.58	0.43	0.08	0.03	2.81	0.008		0.07	0.02	0.10	2.92
1941	1.93	0.96	0.61	0.14	0.06	3.70	0.003		0.08	0.06	0.14	3.84
1942	1.83	0.70	0.56	0.13	0.04	3.26	0.001		0.05	0.04	0.08	3.34
1943	1.47	0.56	0.40	0.16	0.07	2.65			0.01	0.05	0.05	2.71
1944	1.90	0.63	0.33	0.11	0.03	3.00			0.00	0.02	0.02	3.01
1945	2.23	0.72	0.44	0.12	0.05	3.55			0.00	0.04	0.04	3.59
1946	2.43	0.90	0.57	0.10	0.05	4.06				0.08	0.08	4.14
1947	2.36	0.87	0.50	0.13	0.10	3.96				0.08	0.08	4.04
1948	1.90	0.51	0.48	0.12	0.08	3.09				0.13	0.13	3.23
1949	1.52	1.05	0.48	0.13	0.09	3.26				0.08	0.08	3.34
1950	1.52	0.97	0.38	0.19	0.09	3.15				0.06	0.06	3.21
1951	1.69	0.73	0.47	0.21	0.10	3.21				0.07	0.07	3.28
1952	1.67	0.90	0.53	0.12	0.09	3.30	0.00			0.07	0.07	3.37
1953	1.60	1.02	0.50	0.11	0.10	3.33	0.01			0.09	0.10	3.42
1954	1.68	0.88	0.40	0.09	0.12	3.17	0.07			0.06	0.14	3.30
1955	2.22	0.88	0.37	0.08	0.13	3.68	0.08			0.13	0.21	3.89
1956	2.07	0.98	0.24	0.09	0.13	3.51	0.14			0.11	0.25	3.75
1957	1.50	0.95	0.30	0.06	0.16	2.96	0.03			0.09	0.12	3.09
1958	1.19	1.07	0.33	0.06	0.17	2.81	0.09			0.07	0.16	2.97
1959	1.13	0.96	0.36	0.08	0.17	2.70	0.14			0.10	0.24	2.94
1960	1.14	0.75	0.31	0.05	0.19	2.44	0.31			0.07	0.38	2.83
1961	1.43	0.70	0.23	0.04	0.24	2.63	0.12			0.06	0.18	2.82
1962	1.13	0.72	0.21	0.05	0.21	2.31	0.25			0.10	0.35	2.67
1963	1.39	0.80	0.26	0.04	0.20	2.69	0.19			0.12	0.32	3.01
1964	1.40	0.96	0.36	0.03	0.26	3.00	0.62			0.16	0.78	3.78
1965	1.32	0.98	0.29	0.04	0.26	2.88	0.29			0.11	0.39	3.28

¹ Catch in Nos for Or(25-37) and Ca (25-67) estimated from respective year catch in weight divided by avg. weight (38-47 for Or, 59-68 for Ca.)

² Includes Southeast Alaska and Yakutat management areas.

³ Includes Prince William Sound, Cook Inlet, Kodiak, Chignik, and South Alaska Peninsula management areas.

⁴ Includes North Alaska Peninsula, Aleutian Islands, Bristol Bay, and AYK management areas.

⁵ Includes mothership, landbased gillnet and landbased longline fisheries

⁶ Includes Japanese Concessional fisheries and coastal waters of Northern Kurils, S. Sakhalin.

⁷ Catch in Nos for (1952-1961) estimated from catch in weight divided by avg. weight (62-75).

Table 5. (continued) Annual commercial catches of Chinook salmon in millions of fish

Year	North America						Asia				
	Wash., Ore., Cal. ¹	British Columbia	Central Alaska		Western Alaska	North America Total	Japan High Seas and Offshore ²	Russia		Asia Total	Pacific Total
			SE Alaska	Alaska				Foreign Fleet ^{3,4}	Coastal ⁵		
1966	1.15	1.16	0.31	0.03	0.20	2.85	0.33		0.09	0.42	3.27
1967	0.96	1.10	0.30	0.03	0.28	2.67	0.24		0.09	0.33	3.00
1968	1.12	1.05	0.33	0.02	0.25	2.78	0.46		0.08	0.54	3.32
1969	1.34	1.05	0.31	0.04	0.28	3.03	0.64		0.12	0.76	3.80
1970	1.46	1.08	0.32	0.04	0.29	3.19	0.59		0.14	0.73	3.92
1971	1.31	1.52	0.33	0.05	0.28	3.49	0.35		0.18	0.53	4.03
1972	1.30	1.51	0.29	0.04	0.22	3.36	0.37		0.20	0.57	3.93
1973	2.16	1.37	0.34	0.03	0.17	4.08	0.29		0.21	0.50	4.58
1974	1.48	1.42	0.35	0.03	0.18	3.46	0.56		0.17	0.73	4.19
1975	1.65	1.38	0.30	0.03	0.12	3.49	0.32		0.22	0.54	4.03
1976	1.55	1.50	0.24	0.05	0.24	3.58	0.49		0.21	0.70	4.28
1977	1.79	1.47	0.29	0.05	0.29	3.88	0.26		0.34	0.60	4.48
1978	1.35	1.35	0.40	0.07	0.37	3.54	0.32		0.32	0.64	4.18
1979	1.45	1.33	0.37	0.06	0.41	3.61	0.31		0.26	0.57	4.19
1980	1.37	1.27	0.32	0.05	0.30	3.31	0.89		0.12	1.01	4.32
1981	1.18	1.13	0.27	0.07	0.48	3.13	0.30		0.15	0.45	3.59
1982	1.56	1.23	0.28	0.12	0.46	3.65	0.28		0.15	0.43	4.07
1983	0.68	0.95	0.28	0.14	0.40	2.45	0.27		0.19	0.46	2.91
1984	0.76	1.01	0.26	0.09	0.31	2.43	0.19		0.18	0.37	2.80
1985	1.05	0.87	0.24	0.11	0.36	2.62	0.19		0.16	0.35	2.97
1986	1.81	0.81	0.27	0.11	0.25	3.24	0.17		0.20	0.37	3.60
1987	2.24	0.77	0.29	0.11	0.28	3.69	0.17		0.15	0.32	4.01
1988	2.69	0.72	0.24	0.12	0.22	4.00	0.09		0.16	0.25	4.25
1989	1.57	0.65	0.28	0.08	0.21	2.79	0.08		0.13	0.21	3.00
1990	1.16	0.66	0.35	0.10	0.22	2.50	0.08		0.11	0.19	2.69
1991	0.72	0.64	0.34	0.09	0.19	1.98	0.07		0.11	0.18	2.16
1992	0.56	0.68	0.23	0.12	0.26	1.85	0.03		0.12	0.15	2.00
1993	0.61	0.62	0.23	0.15	0.22	1.83	0.04	0.09	0.16	0.28	2.11
1994	0.47	0.43	0.22	0.13	0.29	1.54	0.03	0.03	0.13	0.19	1.73
1995	1.06	0.19	0.22	0.14	0.31	1.92	0.01	0.02	0.10	0.13	2.05
1996	0.79	0.05	0.22	0.10	0.21	1.36	0.02	0.03	0.07	0.11	1.47
1997	0.85	0.21	0.30	0.11	0.25	1.72	0.05	0.15	0.08	0.27	1.99
1998	0.48	0.15	0.28	0.11	0.23	1.26	0.04	0.07	0.07	0.17	1.43
1999	0.56	0.10	0.20	0.11	0.12	1.10	0.01	0.04	0.09	0.15	1.24
2000	0.82	0.07	0.23	0.07	0.06	1.24	0.01	0.02	0.06	0.09	1.32
2001	0.77	0.10	0.25	0.09	0.04	1.25	0.00	0.02	0.06	0.08	1.32
2002	1.14	0.24	0.39	0.09	0.08	1.93	0.00	0.11	0.07	0.18	2.12
2003	1.21	0.30	0.41	0.10	0.11	2.13	0.00	0.01	0.03	0.03	2.16

¹ Commercial Catch in Nos for (2001-2003) estimated from catch in weight divided by avg. weight (1996-2000)

² Includes mothership, landbased gillnet, landbased longline, and coastal fisheries

³ Includes the Japanese driftnet fishery in Russian EEZ.

⁴ Catch in Nos for (1998-2003) estimated from catch in weight divided by avg. weight (93-97).

⁵ Catch in Nos for (1976-1992) estimated from catch in weight divided by avg. weight (62-75,93-01).

Table 6. Annual North Pacific commercial catches of pink salmon in thousands of metric tons.

Year	North America						Asia					
	Wash., Ore., Cal.	British Columbia	Central SE Alaska ^{1,2}	Central Alaska ^{1,3}	Western Alaska ^{1,4}	N. Amer. Total	Japan			Russian	Asia	Pacific
							High seas ⁵	Coastal ⁶	Rus. Coast. ⁷	Coastal	Total	Total
1925	16.0	18.4	49.7	11.9	0.0	96.1		12.6	32.0	20.0	64.6	160.7
1926	0.0	28.8	56.7	35.1	1.3	121.8		17.3	166.8	47.4	231.5	353.3
1927	18.8	10.1	14.4	22.4	0.5	66.2		12.9	32.6	22.5	68.0	134.2
1928	0.0	29.3	63.5	18.6	0.1	111.4		12.5	147.1	49.6	209.1	320.5
1929	23.3	18.7	38.5	29.7	0.0	110.2		36.6	22.9	18.2	77.7	187.9
1930	0.0	40.3	76.5	25.6	0.4	142.8	0.0	17.9	89.9	74.3	182.1	324.9
1931	25.4	13.8	47.9	21.8	0.0	108.9	0.2	41.1	30.3	49.5	121.2	230.1
1932	0.0	9.3	39.8	21.2	0.3	70.5	0.1	12.9	84.4	89.7	187.1	257.6
1933	17.5	21.3	45.4	21.3	0.0	105.5	1.6	10.8	52.0	39.3	103.7	209.2
1934	0.0	18.0	88.6	36.5	0.1	143.1	2.1	10.7	147.2	52.6	212.6	355.7
1935	15.2	21.6	53.2	31.5	0.0	121.5	1.5	15.9	156.7	66.9	241.0	362.5
1936	0.0	24.6	89.3	42.7	0.8	157.4	7.2	14.9	105.2	20.8	148.0	305.4
1937	13.3	24.0	61.9	49.9	0.0	149.0	1.2	14.1	199.4	6.4	221.2	370.2
1938	0.0	17.1	53.3	39.4	0.0	109.8	1.5	16.1	164.2	28.4	210.1	320.0
1939	10.6	25.5	41.8	32.7	0.0	110.6	1.8	10.7	290.5	13.4	316.3	426.9
1940	0.0	8.4	51.2	51.3	0.4	111.3	2.5	5.7	75.3	50.4	133.9	245.2
1941	5.3	18.6	105.7	28.7	0.0	158.3	3.0	12.6	174.4	77.1	267.1	425.4
1942	0.0	10.2	58.3	34.7	0.3	103.5	4.7	8.7	102.4	79.1	194.9	298.4
1943	2.5	21.4	31.7	47.7	0.0	103.4	5.1	3.3	174.7	118.1	301.2	404.6
1944	0.0	12.8	34.0	30.1	0.1	77.0		3.5	39.2	106.1	148.7	225.7
1945	15.4	30.1	38.1	42.9	0.0	126.5		4.1	4.1	76.2	84.3	210.8
1946	0.0	4.8	43.7	35.6	0.1	84.1		1.7		38.3	40.0	124.1
1947	24.5	23.0	24.7	33.4	0.0	105.6		4.5		132.4	136.9	242.5
1948	0.0	12.1	25.3	20.7	0.1	58.2		1.1		52.2	53.3	111.4
1949	20.1	25.3	77.3	21.5	0.0	144.2		9.2		165.0	174.2	318.3
1950	0.0	18.3	16.6	17.0	0.0	51.9		4.7		36.4	41.1	92.9
1951	15.4	27.3	39.1	10.0	0.0	91.8		7.8		154.8	162.6	254.4
1952	0.0	25.3	17.3	16.2	0.1	58.8	25.0	0.7		57.2	82.9	141.8
1953	15.6	30.5	8.8	17.2	0.1	72.3	20.7	0.9		142.3	163.9	236.2
1954	0.0	12.7	15.7	22.1	1.1	51.6	24.7	0.6		46.2	71.5	123.1
1955	14.4	31.3	16.4	24.7	0.1	86.8	73.2	1.5		88.3	163.0	249.8
1956	0.0	14.3	24.2	20.6	0.2	59.2	70.4	1.2		72.1	143.7	203.0
1957	8.0	28.3	12.1	11.0	0.0	59.4	95.0	0.9		106.4	202.3	261.7
1958	0.0	16.8	17.3	24.8	2.8	61.7	81.1	10.5		38.4	130.0	191.7
1959	6.2	17.3	13.8	4.9	0.0	42.3	93.8	7.5		47.1	148.4	190.7
1960	0.0	8.4	4.6	18.8	1.4	33.2	50.8	10.0		19.6	80.4	113.5
1961	2.2	24.7	29.8	17.9	0.2	75.0	71.6	4.2		30.3	106.2	181.1
1962	0.0	46.2	20.5	42.8	4.1	113.6	35.8	4.6		16.3	56.7	170.4
1963	14.3	29.9	27.0	25.9	0.2	97.3	69.9	5.3		35.7	110.9	208.2
1964	0.0	18.2	32.0	38.9	2.4	91.4	35.0	3.2		14.6	52.7	144.2
1965	2.2	11.3	19.3	14.7	0.0	47.5	61.4	5.5		47.9	114.8	162.3

¹ Catch in weight (1925-1959) estimated from catch in number and average weight by management area (60-69)

² Includes Southeast Alaska and Yakutat management areas.

³ Includes Prince William Sound, Cook Inlet, Kodiak, Chignik, and South Alaska Peninsula management areas.

⁴ Includes North Alaska Peninsula, Aleutian Islands, Bristol Bay, and AYK management areas.

⁵ Includes mothership, landbased gillnet, landbased longline, and Sea of Japan fisheries

⁶ Includes coastal and freshwater fisheries.

⁷ Includes Japanese Concessional fisheries and coastal waters of Northern Kurils, S. Sakhalin.

Table 6. (Continued) Annual North Pacific commercial catches of pink salmon in thousands of metric tons.

Year	North America						Asia					Pacific Total	
	Wash., Ore., Cal.	British Columbia	SE Alaska	Central Alaska	Western Alaska	North America Total	Japan		Russia		Asia Total		
							High Seas and Offshore ¹	Coastal ²	Foreign Fleet ³	Coastal			
1966	0.0	36.3	40.9	29.6	3.7	110.4	41.1	5.6			20.7	67.4	177.8
1967	10.5	25.3	6.3	6.7	0.1	49.0	63.2	8.4			50.7	122.3	171.3
1968	0.0	28.3	37.6	26.7	4.4	97.0	41.0	6.7			16.3	64.0	160.9
1969	2.8	6.8	9.5	39.2	0.6	58.9	65.1	9.4			63.4	137.9	196.9
1970	0.0	26.2	18.9	33.6	2.0	80.6	33.4	5.2			16.2	54.8	135.4
1971	5.8	19.2	15.7	23.6	0.1	64.4	53.5	7.2			66.9	127.5	191.9
1972	0.0	19.5	17.6	6.5	0.3	43.9	31.6	4.1			20.4	56.1	99.9
1973	5.8	14.5	10.5	5.9	0.1	36.7	48.8	6.0			90.9	145.7	182.4
1974	0.0	12.2	9.1	7.4	2.1	30.9	31.1	4.5			33.0	68.6	99.5
1975	3.7	11.1	7.0	17.1	0.0	38.9	43.8	6.0			110.4	160.2	199.2
1976	0.0	18.6	10.6	34.0	1.8	65.0	26.1	3.0			54.5	83.7	148.7
1977	6.1	26.8	30.7	27.9	0.1	91.6	32.0	2.9			115.2	150.1	241.7
1978	0.0	16.7	30.7	44.5	8.9	100.9	15.3	1.9			57.7	74.9	175.7
1979	10.6	26.9	19.6	64.9	1.2	123.2	22.3	1.8			103.8	127.9	251.1
1980	0.0	15.3	25.5	68.6	8.5	118.0	18.4	2.0			79.3	99.7	217.7
1981	9.0	41.7	36.6	73.4	0.8	161.6	22.6	3.1			87.9	113.6	275.2
1982	0.0	4.3	35.9	61.0	4.7	105.9	19.1	1.7			47.8	68.6	174.5
1983	3.8	43.1	53.2	35.0	0.1	135.2	22.9	2.5			107.7	133.0	268.3
1984	0.0	13.1	40.0	81.7	8.9	143.7	15.9	2.9			56.7	75.5	219.2
1985	10.0	41.1	75.1	63.8	0.0	190.0	20.5	6.8			96.4	123.7	313.7
1986	0.0	32.1	69.7	47.8	0.8	150.4	10.9	4.8			41.0	56.7	207.1
1987	4.4	29.3	17.2	58.4	0.0	109.3	11.2	8.1			98.8	118.2	227.5
1988	0.0	35.1	16.6	62.8	2.1	116.6	8.9	6.9			40.7	56.5	173.1
1989	6.9	33.8	92.7	58.6	0.0	192.0	8.9	8.7			149.6	167.2	359.2
1990	0.0	28.6	46.9	76.5	1.6	153.6	6.4	6.4			76.1	88.9	242.5
1991	6.1	38.2	76.1	83.9	0.0	204.3	5.6	13.3			211.9	230.8	435.1
1992	0.0	16.2	52.4	40.3	1.8	110.7	2.6	17.5			87.3	107.4	218.1
1993	3.7	17.5	77.3	75.6	0.2	174.4	3.9	16.1	4.9		108.1	133.0	307.4
1994	0.0	3.7	78.5	87.8	2.9	172.9	4.3	25.7	0.8		125.5	156.4	329.3
1995	4.6	21.5	69.3	130.0	0.1	225.6	4.5	16.7	3.0		145.3	169.6	395.2
1996	0.0	9.4	88.0	54.4	0.7	152.4	3.9	28.0	0.9		110.0	142.8	295.2
1997	3.2	13.3	50.6	71.3	0.1	138.4	3.9	10.1	1.9		188.4	204.2	342.7
1998	0.0	4.3	66.9	103.2	0.7	175.0	4.5	19.8	0.9		192.1	217.3	392.3
1999	0.0	10.4	103.6	94.3	0.0	208.3	4.6	11.4	0.8		187.7	204.5	412.8
2000	0.0	7.9	31.4	83.9	0.6	123.9	2.7	23.1	1.0		147.6	174.4	298.2
2001	1.4	11.9	100.0	96.5	0.0	209.9	2.8	6.8	0.4		170.8	180.8	390.7
2002	0.0	8.6	68.3	68.0	0.0	145.0	3.3	21.9	1.3		108.1	134.6	279.6
2003	2.3	15.4	83.7	118.2	0.0	219.7	3.4	20.6	0.2		180.1	204.2	423.9

¹ Includes mothership, landbased gillnet, landbased longline, and Sea of Japan fisheries² Includes coastal and freshwater fisheries.³ Includes the Japanese driftnet fishery in Russian EEZ.

Table 7. Annual North Pacific commercial catches of chum salmon in thousands of metric tons.

Year	North America						Asia					Pacific Total
	Wash., Ore., Cal.	British Columbia	SE Alaska ^{1,2}	Central Alaska ^{1,3}	Western Alaska ^{1,4}	N. Amer. Total	Japan		Russian Coastal	Asia Total		
							High seas ⁵	Coastal ⁶	Rus. Coast. ⁷			
1925	6.3	31.3	35.8	7.8	0.9	82.0		13.8	27.5	11.5	52.7	134.8
1926	6.4	36.9	26.7	8.6	1.2	79.9		15.0	24.1	34.8	74.0	153.9
1927	6.7	28.2	9.7	9.1	0.9	54.5		12.5	33.1	25.0	70.6	125.1
1928	10.1	46.4	21.3	13.4	1.5	92.6		7.7	58.0	13.7	79.4	172.1
1929	10.3	21.8	11.5	17.7	2.3	63.7	0.0	12.2	59.7	34.4	106.3	170.0
1930	5.7	24.6	11.8	9.8	1.0	53.0	0.3	16.6	62.8	44.9	124.6	177.6
1931	5.2	22.1	12.5	7.2	2.1	49.0	0.8	17.6	40.3	67.1	125.8	174.8
1932	7.2	22.8	24.5	5.3	2.9	62.6	1.2	10.6	41.6	40.4	93.8	156.5
1933	3.7	17.8	19.9	7.6	0.8	49.8	3.4	7.4	44.1	33.5	88.3	138.1
1934	4.9	26.1	16.6	10.8	1.1	59.4	5.0	15.0	70.8	49.4	140.3	199.6
1935	4.4	24.9	22.2	11.2	0.3	63.0	5.5	17.9	61.3	40.5	125.2	188.3
1936	5.6	31.4	33.2	11.3	0.8	82.3	5.7	11.5	128.3	51.6	197.2	279.5
1937	5.2	25.4	24.3	8.2	1.1	64.1	5.3	9.6	87.0	44.1	145.9	210.1
1938	5.5	26.9	19.9	9.2	1.8	63.2	7.3	14.1	92.1	56.0	169.5	232.7
1939	2.6	15.1	14.8	9.3	3.1	44.8	7.2	14.7	69.9	57.4	149.2	194.0
1940	4.2	27.6	20.2	13.4	1.1	66.5	8.7	10.9	69.5	55.3	144.3	210.8
1941	7.5	28.7	12.9	10.2	1.7	61.0	6.0	9.0	64.9	53.7	133.5	194.5
1942	8.1	24.0	23.8	10.9	0.5	67.3	4.5	8.0	50.5	39.7	102.7	170.1
1943	3.0	14.5	29.9	7.7	1.3	56.3		6.7	23.5	62.7	92.9	149.2
1944	2.1	13.6	30.1	10.5	1.5	57.7		5.1	8.2	55.5	68.8	126.5
1945	2.9	15.4	14.5	12.9	3.0	48.7		7.4	0.6	61.3	69.3	118.0
1946	7.4	27.4	17.5	10.2	0.8	63.4		7.0		68.7	75.7	139.1
1947	3.4	26.5	14.7	9.0	0.9	54.5		8.6		69.3	77.9	132.4
1948	5.5	27.3	17.5	9.5	2.0	61.9		8.6		62.5	71.1	133.1
1949	2.7	16.3	12.7	8.6	0.9	41.1		11.8		79.4	91.2	132.4
1950	5.9	36.0	20.9	7.9	1.1	71.7		17.3		61.5	78.8	150.5
1951	5.6	29.7	18.0	7.1	1.4	61.9		18.9		83.4	102.3	164.2
1952	5.5	15.7	18.3	12.0	1.6	53.1	3.1	8.2		44.0	55.3	108.3
1953	2.8	26.9	15.5	10.9	1.9	58.0	10.3	7.8		34.0	52.1	110.1
1954	4.2	36.8	18.5	12.4	2.5	74.4	29.1	11.8		52.6	93.5	167.9
1955	2.1	9.0	6.7	6.2	1.1	25.0	54.4	8.2		65.6	128.2	153.3
1956	1.1	13.5	11.8	13.8	2.3	42.6	45.2	6.2		77.3	128.7	171.3
1957	1.1	16.5	14.9	16.1	1.7	50.3	33.6	11.0		32.0	76.5	126.8
1958	2.8	18.8	12.2	11.3	1.9	47.0	58.2	12.0		27.7	97.9	144.9
1959	2.8	11.4	5.6	6.6	2.7	29.3	46.0	7.3		38.2	91.5	120.8
1960	1.1	10.0	4.7	11.3	5.5	32.6	42.9	7.1		43.3	93.4	125.9
1961	0.9	7.2	10.9	7.1	3.1	29.2	28.9	12.1		36.4	77.3	106.5
1962	1.2	8.9	8.6	13.8	3.5	36.0	30.1	14.2		34.0	78.3	114.4
1963	1.4	7.6	5.9	8.5	1.8	25.3	31.2	14.9		33.6	79.7	104.9
1964	1.4	11.8	8.9	15.9	3.8	41.8	37.1	15.9		25.4	78.5	120.2
1965	0.9	3.3	6.8	5.6	1.7	18.3	29.1	20.0		31.5	80.6	98.9

¹ Catch in weight (1925-1959) estimated from catch in number and average weight by management area (60-69)

² Includes Southeast Alaska and Yakutat management areas.

³ Includes Prince William Sound, Cook Inlet, Kodiak, Chignik, and South Alaska Peninsula management areas.

⁴ Includes North Alaska Peninsula, Aleutian Islands, Bristol Bay, and AYK management areas.

⁵ Includes mothership, landbased gillnet and landbased longline fisheries

⁶ Includes coastal and freshwater fisheries.

⁷ Includes Japanese Concessional fisheries and coastal waters of Northern Kurils, S. Sakhalin.

Table 7. (Continued) Annual North Pacific commercial catches of chum salmon in thousands of metric tons.

Year	North America						Asia						Pacific Total
	Wash., Ore., Cal.	British Columbia	SE Alaska	Central Alaska	Western Alaska	North America Total	Japan		Russia		Korea ⁴	Asia Total	
							High Seas and	Coastal ²	Foreign Fleet ³	Coastal			
1966	2.0	7.6	12.8	8.8	2.1	33.2	42.9	16.8		27.6		87.3	120.5
1967	1.3	6.0	7.9	4.4	2.0	21.7	35.2	19.4		20.6		75.1	96.8
1968	2.5	18.1	13.1	10.2	1.8	45.8	33.7	10.2		13.7		57.6	103.3
1969	1.0	6.6	2.3	5.5	2.2	17.6	25.3	16.9		5.9		48.1	65.7
1970	1.3	18.3	9.3	11.2	4.2	44.3	34.7	21.6		12.4		68.7	113.0
1971	0.8	5.9	7.3	13.5	4.2	31.7	31.7	30.7		11.2		73.6	105.3
1972	4.3	32.6	11.7	9.3	4.5	62.4	40.4	26.0		6.3		72.7	135.1
1973	3.1	35.6	8.1	7.9	6.8	61.4	28.5	34.7		6.9		70.1	131.5
1974	2.4	13.6	6.7	3.3	6.8	32.8	37.5	42.7		9.1		89.3	122.1
1975	1.0	5.9	2.9	4.1	7.3	21.2	33.7	65.8		9.3		108.8	130.0
1976	4.1	11.9	5.0	8.4	8.3	37.7	38.0	40.4		12.8		91.2	128.9
1977	2.3	6.6	3.4	13.1	10.9	36.3	21.6	50.3		16.1		88.0	124.4
1978	6.4	17.3	3.7	9.8	10.4	47.5	14.2	59.8		21.9		96.0	143.5
1979	0.6	5.1	3.8	7.9	8.7	26.2	11.3	90.7		26.4		128.3	154.4
1980	4.8	18.8	7.5	12.0	13.1	56.1	12.2	84.5		17.6		114.4	170.5
1981	2.7	6.7	3.8	24.4	16.9	54.6	10.6	110.3		17.0	0.0	137.9	192.5
1982	5.5	16.4	6.0	25.8	9.6	63.3	13.1	98.7		15.7	0.0	127.5	190.8
1983	2.7	5.3	4.8	19.3	11.8	43.9	11.3	122.2		23.9	0.0	157.3	201.2
1984	3.6	9.8	17.4	15.7	14.1	60.6	11.8	124.5		15.2	0.0	151.4	212.0
1985	5.4	25.8	13.4	13.5	10.9	68.9	9.0	167.7		27.9	0.0	204.6	273.5
1986	6.0	27.4	13.5	20.7	9.9	77.5	6.0	151.5		25.6	0.0	183.2	260.7
1987	6.3	12.0	10.9	15.9	9.6	54.7	6.1	140.4		29.8	0.0	176.4	231.1
1988	8.4	33.0	14.5	24.3	16.4	96.5	3.7	155.5		29.1	0.0	188.3	284.8
1989	4.4	10.1	8.6	7.6	11.8	42.5	2.9	178.1		25.4	0.1	206.5	249.0
1990	5.4	18.7	9.4	11.7	7.3	52.6	2.3	220.6		30.4	0.3	253.5	306.1
1991	4.6	11.1	12.0	11.0	8.6	47.3	1.6	196.0		22.0	0.3	219.8	267.2
1992	6.6	19.6	17.9	9.1	7.5	60.7	0.1	145.7		21.6	0.3	167.7	228.4
1993	4.4	18.8	25.2	8.7	3.9	60.9	0.2	199.9	8.6	23.0	0.3	232.0	292.9
1994	5.9	22.1	36.0	15.0	4.8	83.8	0.3	208.0	14.3	28.2	0.3	251.2	335.0
1995	3.0	13.2	41.6	16.5	8.3	82.6	0.3	248.4	18.8	28.2	0.4	296.2	378.8
1996	2.9	7.1	67.6	13.9	4.9	96.5	0.4	285.3	14.7	24.9	0.5	325.8	422.3
1997	1.9	9.5	48.1	13.5	2.6	75.5	0.4	255.6	13.5	19.4	0.6	289.4	364.9
1998	2.9	21.7	63.0	8.9	2.5	99.0	0.4	193.7	12.0	25.1	0.4	231.7	330.7
1999	1.2	5.4	63.9	18.1	2.9	91.5	0.4	170.4	12.7	23.6	0.3	207.3	298.8
2000	1.4	3.1	67.6	28.2	2.4	102.6	0.3	152.2	11.4	30.8	0.1	194.7	297.3
2001	6.7	6.4	35.3	19.2	4.3	71.8	0.2	211.7	7.9	29.6	0.1	249.5	321.3
2002	8.9	12.3	31.7	30.1	1.8	84.8	0.3	209.6	5.6	37.6	0.2	253.3	338.1
2003	6.9	13.7	36.2	17.3	3.1	77.4	0.3	277.1	3.4	32.1	0.1	313.0	390.4

¹ Includes mothership, landbased gillnet and landbased longline fisheries

² Includes coastal and freshwater fisheries.

³ Includes the Japanese driftnet fishery in Russian EEZ.

⁴ Catch in weight (1981-1990) estimated from catch in number and average weight (1991-1995).

Table 8. Annual North Pacific commercial catches of sockeye salmon in thousands of metric tons.

Year	North America						Asia				Pacific Total	
	Wash., Ore., Cal.	British Columbia	SE Alaska ^{1,2}	Central Alaska ^{1,3}	Western Alaska ^{1,4}	N. Amer. Total	Japan		Russian Coastal	Asia Total		
							High Seas ⁵	Rus. Coast. ⁶				
1925	4.8	15.0	5.0	13.0	20.6	58.3			12.7	2.9	15.6	73.9
1926	2.1	13.2	5.5	23.1	49.6	93.5			19.2	2.9	22.1	115.6
1927	3.7	11.4	3.9	10.9	27.9	57.8			20.4	3.0	23.4	81.2
1928	2.2	8.0	3.6	13.5	50.8	78.1			35.2	3.4	38.6	116.7
1929	4.8	10.8	5.1	12.8	32.3	65.8	0.0		23.4	9.3	32.7	98.5
1930	11.4	18.9	7.0	8.7	10.9	56.9	0.5		23.1	9.8	33.4	90.2
1931	3.3	11.8	4.9	14.1	33.5	67.6	0.9		17.9	7.6	26.4	94.0
1932	3.1	12.8	4.4	20.1	39.3	79.8	1.9		18.1	5.3	25.3	105.1
1933	4.5	10.0	2.7	15.7	59.4	92.2	3.0		15.2	2.7	20.9	113.1
1934	11.0	13.8	3.3	18.7	53.6	100.3	7.2		32.3	0.1	39.7	140.0
1935	2.1	13.4	5.1	12.5	8.7	41.7	3.7		12.1	1.4	17.2	58.9
1936	1.6	15.5	6.5	27.6	52.3	103.6	5.9		24.6	2.6	33.0	136.6
1937	3.1	12.1	5.9	17.5	54.6	93.2	8.6		29.9	4.2	42.7	135.9
1938	4.9	15.8	6.8	16.6	63.5	107.5	6.4		36.3	4.7	47.4	154.9
1939	1.9	9.5	6.7	21.2	34.8	74.1	8.3		25.1	4.8	38.3	112.4
1940	2.7	12.4	4.1	12.3	13.4	44.7	4.8		16.7	3.4	24.9	69.6
1941	5.8	15.3	4.5	13.5	18.9	58.1	6.4		16.8	4.6	27.8	85.9
1942	9.6	23.2	4.2	12.7	15.7	65.5	2.0		19.3	5.7	27.0	92.5
1943	0.9	5.7	3.0	20.5	44.2	74.3			19.2	7.8	27.0	101.3
1944	1.1	7.1	4.6	14.4	29.5	56.7			8.1	9.4	17.5	74.2
1945	2.2	10.4	4.5	14.5	19.0	50.6			0.9	12.0	12.9	63.5
1946	10.0	14.5	2.4	11.8	21.6	60.4				13.2	13.2	73.6
1947	0.9	9.8	2.0	16.0	46.9	75.6				10.2	10.2	85.8
1948	3.0	8.9	1.4	11.1	37.1	61.6				6.2	6.2	67.8
1949	3.3	8.7	1.3	12.2	16.3	41.7				8.8	8.8	50.5
1950	4.1	13.3	1.5	16.8	18.0	53.7				9.3	9.3	63.0
1951	3.8	14.0	2.2	10.6	11.6	42.2				7.7	7.7	49.9
1952	3.9	15.2	2.5	11.2	28.8	61.5	1.5			9.2	10.7	72.3
1953	5.7	17.5	3.7	9.7	16.4	53.0	3.8			5.1	8.9	61.9
1954	16.0	23.2	3.3	8.8	12.4	63.6	9.2			4.0	13.2	76.9
1955	3.0	8.2	2.0	7.2	12.7	33.2	25.8			3.1	28.9	62.0
1956	3.0	10.6	2.5	9.3	25.3	50.7	20.1			5.7	25.8	76.5
1957	4.1	7.8	2.9	5.6	16.4	36.8	42.6			3.5	46.1	82.8
1958	15.0	36.6	2.7	4.2	8.6	67.1	25.6			1.0	26.6	93.7
1959	4.7	8.9	2.4	5.0	13.0	34.0	19.7			4.0	23.7	57.7
1960	3.2	7.6	1.5	7.0	31.5	50.8	30.5			4.0	34.5	85.3
1961	3.8	13.2	2.2	8.2	32.9	60.3	36.7			7.8	44.5	104.8
1962	2.3	9.9	2.1	9.1	12.7	36.2	24.8			4.7	29.5	65.6
1963	3.6	5.9	1.7	6.3	7.3	24.7	19.1			3.4	22.5	47.2
1964	1.4	11.3	2.5	8.2	13.8	37.3	14.3			2.7	17.0	54.3
1965	2.7	8.0	3.0	10.8	49.9	74.5	25.0			4.2	29.2	103.7

¹ Catch in weight (1925-1959) estimated from catch in number and average weight by management area (60-69)

² Includes Southeast Alaska and Yakutat management areas.

³ Includes Prince William Sound, Cook Inlet, Kodiak, Chignik, and South Alaska Peninsula management areas.

⁴ Includes North Alaska Peninsula, Aleutian Islands, Bristol Bay, and AYK management areas.

⁵ Includes mothership, landbased gillnet and landbased longline fisheries

⁶ Includes Japanese Concessional fisheries and coastal waters of Northern Kurils, S. Sakhalin.

Table 8. (continued) Annual North Pacific commercial catches of sockeye salmon in thousands of metric tons.

Year	North America						Asia					Pacific Total
	Wash., Ore., Cal.	British Columbia	SE Alaska	Central Alaska	Western Alaska	North America Total	Japan High Seas and Offshore ¹	Russia		Asia Total		
								Foreign Fleet ³	Coastal			
1966	4.2	12.7	3.2	12.3	26.5	58.9	16.6			3.7	20.3	79.2
1967	5.7	18.3	2.8	8.5	13.0	48.3	20.5			3.0	23.5	71.8
1968	2.5	20.7	2.6	12.1	7.6	45.5	16.8			2.2	19.0	64.5
1969	4.4	11.9	2.1	10.1	16.7	45.3	15.5			1.6	17.1	62.3
1970	4.0	12.4	1.9	16.9	49.5	84.8	17.8			4.5	22.3	107.1
1971	8.4	18.9	1.8	10.7	27.1	66.9	11.0			2.4	13.4	80.3
1972	3.3	10.3	2.6	8.9	7.0	32.1	11.0			1.1	12.1	44.1
1973	7.0	23.4	3.2	8.9	3.0	45.5	9.4			1.9	11.3	56.8
1974	7.5	23.6	2.0	7.5	4.3	45.0	8.2			1.1	9.2	54.2
1975	4.3	6.2	0.6	5.8	12.6	29.6	7.7			1.4	9.1	38.8
1976	3.6	13.4	1.8	15.2	17.3	51.3	8.8			1.2	10.0	61.3
1977	5.1	18.9	3.4	21.2	16.0	64.7	4.5			1.9	6.4	71.1
1978	4.1	24.3	2.4	21.3	29.2	81.3	5.2			3.4	8.5	89.8
1979	4.8	15.7	3.1	12.3	62.5	98.4	5.0			2.9	7.9	106.3
1980	1.4	8.5	3.2	17.6	63.7	94.5	5.7			3.9	9.6	104.1
1981	3.4	22.8	3.0	22.1	77.3	128.6	5.1			3.8	8.9	137.5
1982	8.4	32.8	4.5	32.4	48.0	126.1	4.1			3.0	7.1	133.2
1983	1.0	15.5	4.3	32.2	101.6	154.6	4.4			4.3	8.6	163.3
1984	4.4	14.0	3.4	29.2	68.1	119.1	3.4			6.3	9.7	128.7
1985	7.5	34.3	5.2	26.5	70.0	143.4	2.6			9.3	11.9	155.3
1986	7.9	33.6	4.2	33.3	50.6	129.6	1.8			7.5	9.3	138.9
1987	5.4	16.3	4.2	50.1	47.5	123.5	1.6			11.9	13.5	137.0
1988	2.4	12.9	4.0	36.9	44.5	100.7	0.7			8.4	9.1	109.7
1989	5.6	37.3	6.2	32.6	79.2	160.9	0.7			9.7	10.3	171.2
1990	5.6	40.3	6.1	38.1	94.1	184.3	0.5			16.4	16.9	201.3
1991	4.4	27.4	5.6	35.7	74.5	147.6	0.4			14.4	14.8	162.4
1992	1.6	22.7	7.3	55.7	92.6	179.8	0.0			15.4	15.4	195.2
1993	6.3	46.1	8.5	42.1	120.9	223.9	0.0	7.7		14.0	21.7	245.6
1994	4.8	33.4	6.5	29.7	96.2	170.5	0.0	3.7		10.7	14.4	184.9
1995	1.0	11.2	4.7	35.0	119.1	171.1	0.0	6.1		14.2	20.3	191.5
1996	0.9	16.7	8.1	44.5	90.0	160.2	0.0	5.6		16.8	22.4	182.6
1997	3.1	27.4	7.0	38.9	39.0	115.4	0.0	9.2		9.0	18.1	133.5
1998	1.5	5.5	3.8	24.8	29.4	64.8	0.0	2.6		10.1	12.8	77.6
1999	0.1	1.8	3.1	41.1	66.1	112.2	0.0	2.7		11.9	14.6	126.8
2000	1.5	9.5	3.4	27.7	62.6	104.6	0.0	2.1		15.1	17.2	121.8
2001	0.7	7.7	5.7	25.0	46.7	85.9	0.0	2.7		18.1	20.8	106.7
2002	1.4	10.1	2.3	25.5	33.1	72.4	0.0	3.2		24.8	28.0	100.4
2003	0.8	6.3	4.2	33.8	46.6	91.7	0.0	2.0		17.7	19.7	111.4

¹ Includes mothership, landbased gillnet and landbased longline fisheries

² Includes the Japanese driftnet fishery in Russian EEZ.

Table 9. Annual North Pacific commercial catches of coho salmon in thousands of metric tons.

Year	North America						Asia					Pacific Total
	Wash., Ore., Cal.	British Columbia	SE Alaska ^{1,2}	Central Alaska ^{1,3}	Western Alaska ^{1,4}	N. Amer. Total	Japan		Russian Coastal	Asia Total		
							High seas ⁵	Rus. Coast. ⁶				
1925	11.54	11.74	4.51	2.68	0.05	30.53			4.35	4.35	34.88	
1926	10.99	10.84	4.41	3.74	0.04	30.01			3.35	3.35	33.36	
1927	10.28	10.78	4.78	5.25	0.00	31.10			4.35	4.35	35.45	
1928	8.40	12.15	8.04	5.22	0.02	33.83			4.69	4.69	38.52	
1929	10.06	12.11	5.09	2.51	0.19	29.97			4.02	4.02	33.98	
1930	10.76	12.17	7.44	5.87	0.11	36.35			9.04	9.04	45.39	
1931	8.66	7.21	4.29	2.78	0.00	22.94	0.33		3.35	3.68	26.62	
1932	9.15	8.48	5.17	2.22	0.01	25.04	0.00	1.67	1.00	2.68	27.72	
1933	6.82	9.11	4.55	2.42	0.05	22.96	0.00	1.34	0.67	2.01	24.97	
1934	8.38	10.59	7.28	2.42	0.04	28.71	0.67	2.34	1.67	4.69	33.40	
1935	13.55	14.38	6.55	1.72	0.03	36.23	0.67	5.02	1.34	7.03	43.26	
1936	6.53	12.23	6.70	2.92	0.08	28.45	1.34	15.07	4.35	20.76	49.22	
1937	7.42	8.87	5.21	1.99	0.01	23.50	1.00	9.38	3.01	13.40	36.89	
1938	7.05	13.30	8.19	2.23	0.02	30.79	0.67	6.36	3.35	10.38	41.17	
1939	8.30	11.17	4.18	1.43	0.00	25.08	0.67	4.35	2.01	7.03	32.11	
1940	7.06	12.12	6.84	3.94	0.08	30.04	0.33	2.34	2.80	5.48	35.52	
1941	6.60	16.64	9.36	5.07	0.11	37.78	0.00	2.01	1.90	3.91	41.69	
1942	3.49	10.94	8.23	6.03	0.09	28.79		3.35	4.80	8.15	36.93	
1943	4.08	9.37	6.26	2.52	0.01	22.23		1.34	2.70	4.04	26.27	
1944	5.20	10.60	4.86	3.31	0.08	24.05		0.67	3.20	3.87	27.92	
1945	6.84	15.10	9.63	3.17	0.05	34.80		0.00	4.90	4.90	39.70	
1946	4.24	10.36	8.81	4.37	0.17	27.94			9.70	9.70	37.64	
1947	7.41	8.84	5.76	3.28	0.03	25.31			5.00	5.00	30.31	
1948	6.72	10.10	7.99	2.83	0.04	27.68			6.00	6.00	33.68	
1949	5.97	9.50	8.49	2.42	0.08	26.47			6.40	6.40	32.87	
1950	8.11	9.40	6.15	2.56	0.09	26.31			2.30	2.30	28.61	
1951	7.39	15.98	12.32	2.41	0.14	38.23			2.70	2.70	40.93	
1952	10.20	10.83	6.49	2.20	0.05	29.77	0.05		4.60	4.65	34.42	
1953	6.55	11.38	4.33	1.38	0.01	23.66	0.71		6.50	7.21	30.87	
1954	4.12	10.22	6.59	2.60	0.08	23.61	2.94		7.50	10.44	34.05	
1955	5.54	11.65	4.98	1.80	0.07	24.04	9.08		6.30	15.38	39.42	
1956	7.32	12.42	3.41	1.90	0.20	25.25	9.03		3.80	12.83	38.08	
1957	5.60	11.27	4.54	1.21	0.22	22.84	0.93		5.20	6.13	28.97	
1958	4.53	12.23	3.56	1.77	0.44	22.52	11.17		2.80	13.97	36.48	
1959	3.63	9.69	3.81	1.44	0.06	18.62	6.16		3.92	10.08	28.69	
1960	1.83	7.05	2.42	1.87	0.07	13.23	5.98		1.89	7.87	21.10	
1961	5.39	12.24	3.59	1.39	0.24	22.85	4.29		4.52	8.81	31.66	
1962	5.70	13.16	4.33	2.32	0.23	25.74	8.37		4.68	13.05	38.79	
1963	4.85	12.60	4.68	2.50	0.24	24.86	9.48		7.35	16.83	41.69	
1964	7.90	15.66	5.83	3.58	0.18	33.14	12.52		1.12	13.63	46.77	
1965	9.22	18.13	6.18	1.77	0.06	35.35	7.20		2.95	10.14	45.50	

¹ Catch in weight (1925-1959) estimated from catch in number and average weight by management area (60-69)

² Includes Southeast Alaska and Yakutat management areas.

³ Includes Prince William Sound, Cook Inlet, Kodiak, Chignik, and South Alaska Peninsula management areas.

⁴ Includes North Alaska Peninsula, Aleutian Islands, Bristol Bay, and AYK management areas.

⁵ Includes mothership, landbased gillnet and landbased longline fisheries

⁶ Includes Japanese Concessional fisheries and coastal waters of Northern Kurils, S. Sakhalin.

Table 9. (continued) Annual North Pacific commercial catches of coho salmon in thousands of metric tons.

Year	North America						Asia				
	Wash., Ore., Cal.	British Columbia	SE Alaska	Central Alaska	Western Alaska	North America Total	Japan High Seas and Offshore ¹	Russia Foreign Fleet ²		Coastal	Asia Total
1966	11.51	19.10	4.90	2.15	0.26	37.92	5.22		3.26	8.49	46.40
1967	11.28	10.56	3.53	2.02	0.37	27.77	3.85		3.61	7.46	35.23
1968	7.79	16.35	5.52	3.12	0.81	33.60	5.55		3.16	8.71	42.31
1969	6.11	8.52	1.97	1.05	0.64	18.29	9.56		3.32	12.88	31.17
1970	14.51	12.64	2.65	2.21	0.31	32.32	5.37		4.56	9.93	42.25
1971	13.10	14.89	3.24	1.87	0.11	33.20	6.82		4.44	11.26	44.47
1972	7.96	10.96	5.40	0.82	0.19	25.33	7.45		1.93	9.38	34.71
1973	10.21	11.70	2.81	1.34	0.80	26.86	10.63		2.16	12.80	39.66
1974	13.34	10.77	4.54	1.11	0.76	30.52	9.72		3.88	13.60	44.12
1975	9.82	8.09	1.46	1.44	0.55	21.35	8.16		3.28	11.44	32.80
1976	12.39	9.65	2.88	1.67	0.50	27.09	7.69		3.41	11.10	38.20
1977	7.07	10.49	3.96	1.79	1.45	24.77	3.75		4.01	7.77	32.53
1978	6.78	9.99	5.48	2.64	1.21	26.10	5.76		2.35	8.11	34.21
1979	8.05	11.21	4.26	4.55	2.23	30.30	2.71		4.03	6.74	37.03
1980	7.50	10.01	3.89	4.26	2.27	27.93	3.70		2.36	6.07	34.00
1981	5.40	8.18	5.10	5.15	2.08	25.89	3.28		3.66	6.93	32.82
1982	7.60	10.07	7.12	9.73	4.38	38.90	5.02		3.76	8.78	47.68
1983	3.32	11.39	6.49	4.70	1.18	27.08	2.63		3.43	6.06	33.14
1984	3.36	11.00	7.43	7.43	5.43	34.66	3.87		4.81	8.68	43.34
1985	5.35	9.78	9.53	10.04	2.17	36.87	1.76		5.30	7.06	43.93
1986	8.98	14.45	12.33	6.47	2.94	45.17	1.04		3.28	4.32	49.50
1987	7.28	9.14	5.19	4.71	1.86	28.17	0.96		4.02	4.98	33.15
1988	6.68	7.68	4.15	8.93	3.16	30.60	0.56		3.14	3.69	34.29
1989	5.70	9.49	7.48	5.06	3.07	30.81	0.45		3.13	3.58	34.39
1990	4.61	11.48	9.77	6.87	1.99	34.72	0.41		2.61	3.02	37.74
1991	3.71	10.93	10.79	7.03	2.55	35.01	0.29		3.44	3.73	38.73
1992	1.46	7.96	13.44	7.90	3.60	34.36	0.00		4.74	4.74	39.10
1993	0.87	4.68	10.71	4.87	2.45	23.57	0.02	0.19	2.65	2.86	26.43
1994	1.47	8.33	20.62	10.54	3.99	44.94	0.03	0.04	2.51	2.57	47.51
1995	1.40	5.23	12.07	8.73	2.28	29.71	0.04	0.23	1.48	1.75	31.46
1996	1.24	4.19	10.81	5.66	4.93	26.82	0.07	0.63	1.95	2.65	29.47
1997	0.44	0.81	6.88	3.20	0.96	12.28	0.10	0.58	1.88	2.56	14.84
1998	0.76	0.01	11.04	4.42	1.68	17.91	0.04	0.71	1.70	2.44	20.36
1999	1.00	0.01	10.39	2.93	0.20	14.54	0.02	0.49	1.25	1.75	16.30
2000	2.16	0.02	6.61	6.48	1.55	16.83	0.01	0.37	1.71	2.08	18.91
2001	2.92	0.05	10.50	4.94	0.90	19.32	0.05	0.45	1.73	2.23	21.55
2002	2.42	0.46	11.08	6.01	0.44	20.40	0.01	0.13	1.71	1.85	22.25
2003	2.52	0.80	7.97	4.55	1.52	17.37	0.11	0.02	1.42	1.54	18.91

¹ Includes mothership, landbased gillnet, landbased longline, and coastal fisheries

² Includes the Japanese driftnet fishery in Russian EEZ.

Table 10. Annual North Pacific commercial catches of Chinook salmon in thousands of metric tons.

Year	North America						Asia				Pacific Total	
	Wash., Ore., Cal.	British Columbia	SE Alaska ^{1,2}	Central Alaska ^{1,3}	Western Alaska ^{1,4}	N. Amer. Total	Japan		Russian			
							High seas ⁵	Rus. Coast ⁶	Coastal	Asia Total		
1925	24.81	7.68	4.41	0.92	0.73	38.55			0.39		0.39	38.94
1926	18.87	5.93	3.33	1.24	0.55	29.91			0.76		0.76	30.67
1927	20.36	6.35	4.61	1.57	0.62	33.51			0.96	0.08	1.04	34.55
1928	15.38	5.51	2.82	1.34	0.49	25.54			0.68	0.18	0.86	26.40
1929	15.85	4.81	3.35	1.33	1.11	26.44			0.82	0.26	1.07	27.51
1930	17.17	7.87	4.48	1.15	0.85	31.51	0.01		1.10	0.66	1.77	33.29
1931	17.98	5.49	3.38	1.01	0.43	28.30	0.02		0.74	0.39	1.15	29.45
1932	15.01	6.48	4.60	1.27	0.65	28.02	0.01		0.74	0.52	1.27	29.29
1933	15.93	5.65	3.14	0.96	0.45	26.12	0.00		0.35	0.15	0.51	26.63
1934	15.16	6.83	2.49	1.05	0.60	26.13	0.01		0.68	0.23	0.92	27.05
1935	13.14	6.59	4.71	0.93	0.17	25.54	0.01		1.18	0.40	1.60	27.14
1936	14.30	6.80	5.00	1.10	0.38	27.57	0.01		1.15	0.64	1.80	29.37
1937	15.71	6.25	6.46	1.13	0.34	29.89	0.01		1.51		1.52	31.41
1938	10.66	5.44	5.56	0.81	0.48	22.96	0.01		1.15		1.16	24.12
1939	10.62	5.44	4.79	0.80	0.35	21.99	0.01		0.64		0.65	22.64
1940	13.90	4.14	3.15	0.78	0.30	22.26	0.04		0.70	0.22	0.96	23.22
1941	14.92	6.67	4.50	1.31	0.53	27.93	0.01		0.75	0.57	1.33	29.26
1942	14.79	5.02	4.10	1.31	0.37	25.59	0.00		0.45	0.36	0.82	26.41
1943	11.47	3.94	2.93	1.50	0.58	20.42			0.05	0.48	0.53	20.95
1944	14.30	4.59	2.41	1.05	0.26	22.62			0.00	0.17	0.17	22.79
1945	16.35	5.15	3.22	1.09	0.40	26.20			0.00	0.38	0.38	26.58
1946	17.77	6.48	4.17	1.00	0.46	29.87				0.81	0.81	30.68
1947	17.75	5.22	3.64	1.28	0.91	28.81				0.81	0.81	29.62
1948	14.47	6.13	3.53	1.17	0.70	26.00				1.30	1.30	27.30
1949	11.61	6.57	3.53	1.27	0.74	23.72				0.75	0.75	24.47
1950	10.84	6.11	2.78	1.90	0.76	22.38				0.62	0.62	23.00
1951	12.23	5.89	3.48	2.17	0.91	24.67				0.72	0.72	25.39
1952	11.76	7.10	3.88	1.15	0.78	24.68	0.01			0.66	0.67	25.34
1953	11.30	7.72	3.66	1.11	0.91	24.70	0.03			0.88	0.91	25.61
1954	11.19	6.64	2.92	0.89	1.07	22.71	0.28			0.65	0.93	23.64
1955	14.08	6.15	2.74	0.78	1.12	24.87	0.31			1.34	1.65	26.51
1956	13.26	6.77	1.76	0.86	1.12	23.78	0.41			1.10	1.51	25.29
1957	9.15	6.26	2.20	0.60	1.32	19.53	0.10			0.90	1.00	20.53
1958	7.63	7.03	2.39	0.55	1.41	19.01	0.37			0.70	1.07	20.08
1959	7.73	6.69	2.68	0.65	1.45	19.20	0.53			0.98	1.51	20.72
1960	7.23	5.11	2.29	0.43	1.41	16.47	1.12			0.70	1.82	18.29
1961	8.91	4.49	1.35	0.32	2.19	17.25	0.51			0.65	1.16	18.41
1962	7.85	4.47	1.70	0.41	1.83	16.26	1.03			0.96	1.99	18.25
1963	8.63	5.00	2.01	0.35	1.73	17.72	0.71			1.00	1.71	19.43
1964	8.30	6.57	2.98	0.22	2.04	20.11	2.00			1.43	3.44	23.55
1965	9.17	6.27	2.46	0.34	2.17	20.42	0.99			1.09	2.08	22.49

¹ Catch in weight (1925-1959) estimated from catch in number and average weight by management area (60-69)

² Includes Southeast Alaska and Yakutat management areas.

³ Includes Prince William Sound, Cook Inlet, Kodiak, Chignik, and South Alaska Peninsula management areas.

⁴ Includes North Alaska Peninsula, Aleutian Islands, Bristol Bay, and AYK management areas.

⁵ Includes mothership, landbased gillnet and landbased longline fisheries

⁶ Includes Japanese Concessional fisheries and coastal waters of Northern Kurils, S. Sakhalin.

Table 10. (continued) Annual North Pacific commercial catches of Chinook salmon in thousands of metric tons.

Year	North America						Asia					Pacific Total
	North America			North America Total	Japan High Seas and Offshore ¹	Russia		Asia Total	Pacific Total			
	Wash., Ore., Cal. ³	British Columbia	Central Alaska			Western Alaska	Foreign Fleet ²			Coastal		
1966	7.44	7.57	2.12	0.32	1.84	19.29	1.22		1.02	2.24	21.53	
1967	6.80	7.37	2.06	0.32	2.92	19.47	0.97		0.91	1.88	21.35	
1968	6.93	7.35	2.44	0.26	2.42	19.40	1.41		0.83	2.24	21.64	
1969	8.16	6.92	1.92	0.44	2.51	19.95	1.54		1.21	2.75	22.69	
1970	9.49	6.73	2.09	0.43	2.70	21.44	1.64		1.41	3.05	24.49	
1971	8.74	9.03	2.06	0.50	2.86	23.19	1.15		1.98	3.13	26.32	
1972	8.53	8.87	1.58	0.52	2.25	21.75	1.13		2.24	3.37	25.12	
1973	13.16	7.93	2.15	0.45	1.95	25.64	1.19		2.21	3.40	29.04	
1974	8.98	8.07	2.09	0.48	1.47	21.09	1.85		1.83	3.68	24.77	
1975	10.77	7.77	1.80	0.35	1.00	21.69	1.12		2.23	3.35	25.04	
1976	9.70	8.26	1.41	0.65	2.01	22.02	1.61		1.96	3.57	25.59	
1977	10.62	8.06	2.15	0.56	3.04	24.43	0.91		3.10	4.01	28.44	
1978	8.48	8.50	3.14	0.82	3.76	24.71	1.08		2.95	4.03	28.73	
1979	8.82	7.46	2.81	0.59	3.75	23.42	1.23		2.41	3.64	27.06	
1980	8.33	7.29	2.64	0.49	2.84	21.60	2.49		1.06	3.55	25.14	
1981	6.85	6.45	2.25	0.65	4.49	20.69	1.19		1.40	2.59	23.28	
1982	9.03	7.72	2.18	1.23	4.31	24.48	1.02		1.34	2.36	26.84	
1983	3.44	5.87	2.26	1.47	3.59	16.62	1.00		1.78	2.78	19.40	
1984	4.05	6.83	2.12	1.01	2.68	16.68	0.66		1.68	2.34	19.03	
1985	6.63	5.96	1.93	1.18	3.09	18.79	0.69		1.47	2.16	20.95	
1986	9.73	5.46	2.30	1.16	2.12	20.77	0.63		1.80	2.43	23.20	
1987	13.68	5.72	2.55	1.29	2.49	25.72	0.71		1.39	2.10	27.82	
1988	17.07	6.43	2.22	1.18	1.79	28.69	0.35		1.46	1.81	30.50	
1989	9.98	5.68	2.78	0.86	1.81	21.11	0.31		1.20	1.51	22.62	
1990	6.97	5.67	2.97	0.82	1.76	18.19	0.30		1.00	1.30	19.49	
1991	4.47	5.50	2.88	0.79	1.54	15.18	0.29		1.00	1.29	16.47	
1992	3.27	5.79	1.91	1.07	2.12	14.16	0.18		1.10	1.28	15.44	
1993	3.33	5.22	1.86	1.23	1.81	13.45	0.20	0.42	1.31	1.92	15.37	
1994	2.91	3.86	1.79	1.20	2.45	12.21	0.18	0.19	1.10	1.47	13.68	
1995	5.63	1.62	1.76	1.36	2.77	13.15	0.07	0.13	0.91	1.11	14.25	
1996	4.77	0.45	1.87	1.03	1.73	9.86	0.09	0.16	0.53	0.78	10.64	
1997	5.15	1.76	2.60	0.97	2.08	12.57	0.25	0.46	0.60	1.32	13.88	
1998	2.63	1.51	2.45	1.05	1.73	9.37	0.21	0.33	0.46	1.00	10.36	
1999	3.38	0.81	1.55	0.99	1.01	7.72	0.05	0.22	0.72	0.99	8.71	
2000	4.66	0.53	1.77	0.52	0.43	7.91	0.05	0.10	0.45	0.60	8.51	
2001	4.86	0.71	2.10	0.67	0.33	8.67	0.02	0.09	0.45	0.56	9.23	
2002	7.32	1.68	2.84	0.67	0.67	13.18	0.05	0.55	0.55	1.15	14.33	
2003	8.02	2.17	2.89	0.84	0.84	14.76	0.04	0.04	0.23	0.30	15.06	

¹ Includes mothership, landbased gillnet, landbased longline, and coastal fisheries

² Includes the Japanese driftnet fishery in Russian EEZ.

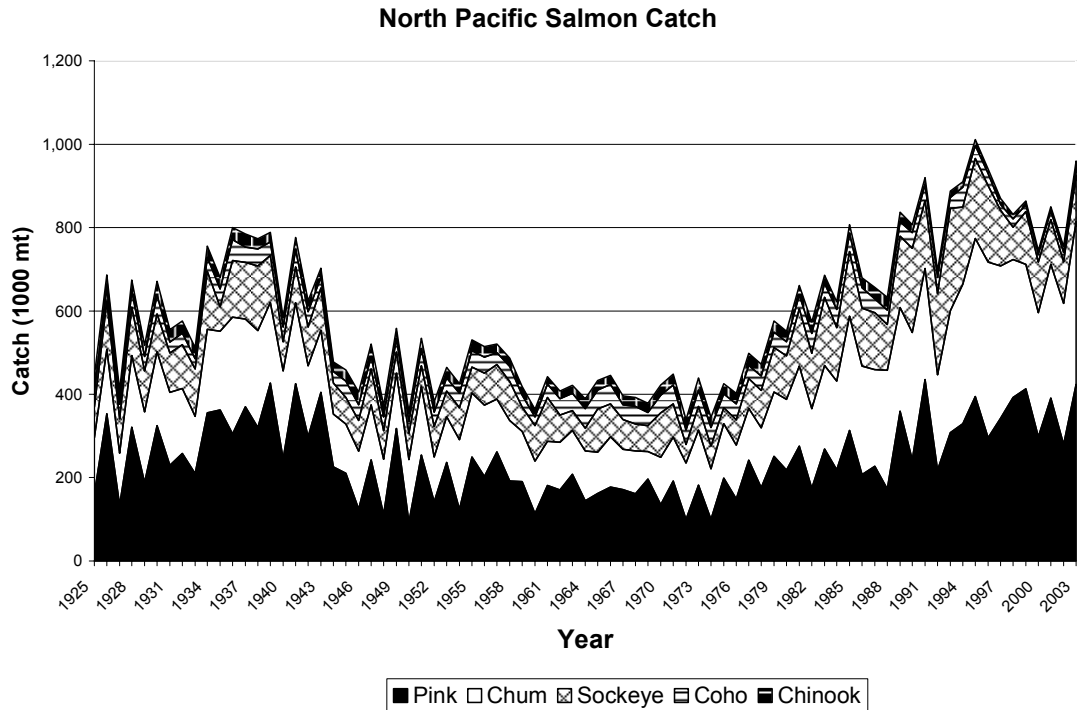


Figure 1. Commercial Catch of Pacific salmon in weight, 1925 – 2003, in the North Pacific Ocean, by species.

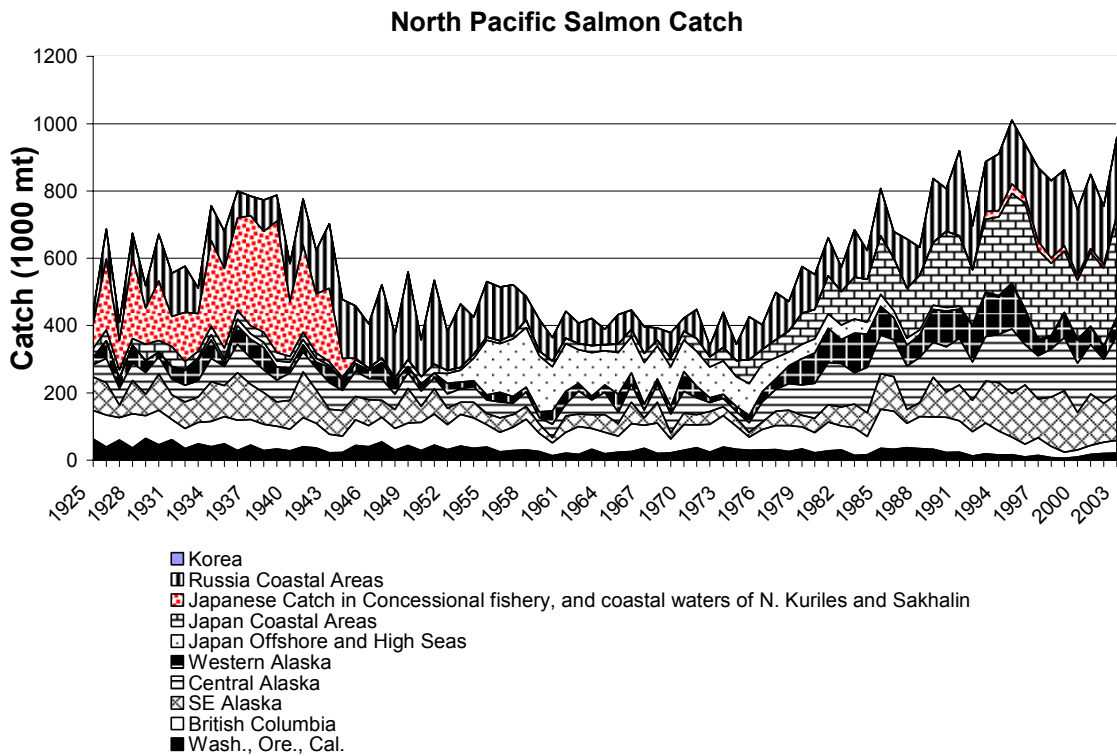


Figure 2. Commercial Catch of Pacific salmon in weight, 1925 – 2003, in the North Pacific Ocean, by area.

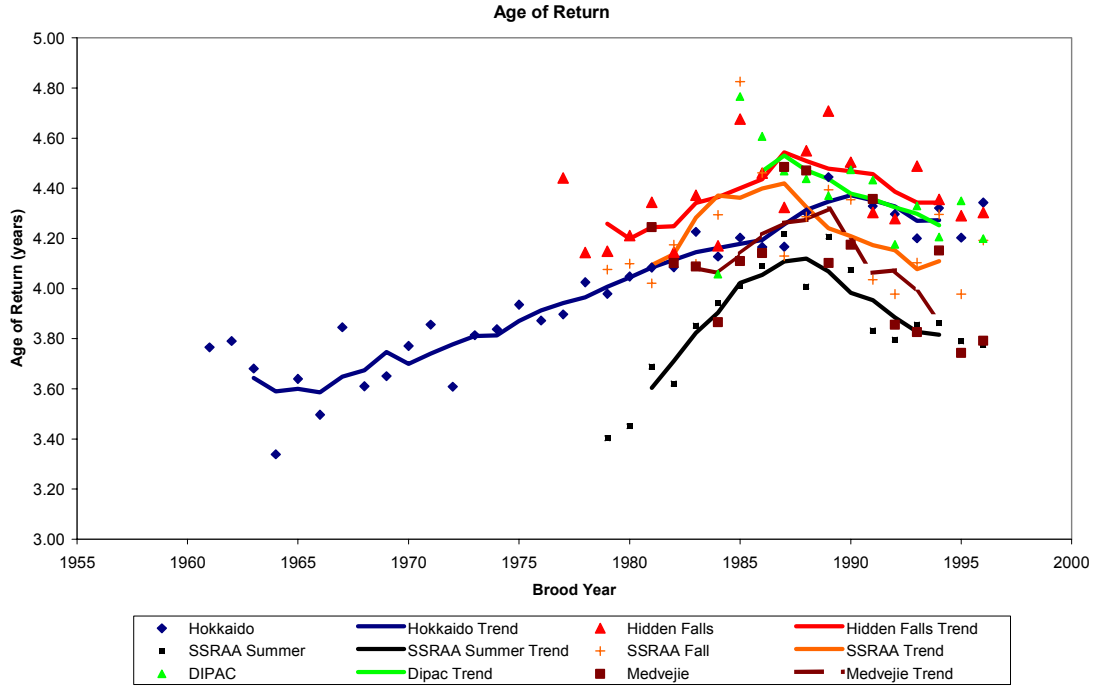


Figure 3. Trends in age at return (of the brood) for various hatchery runs of chum salmon.

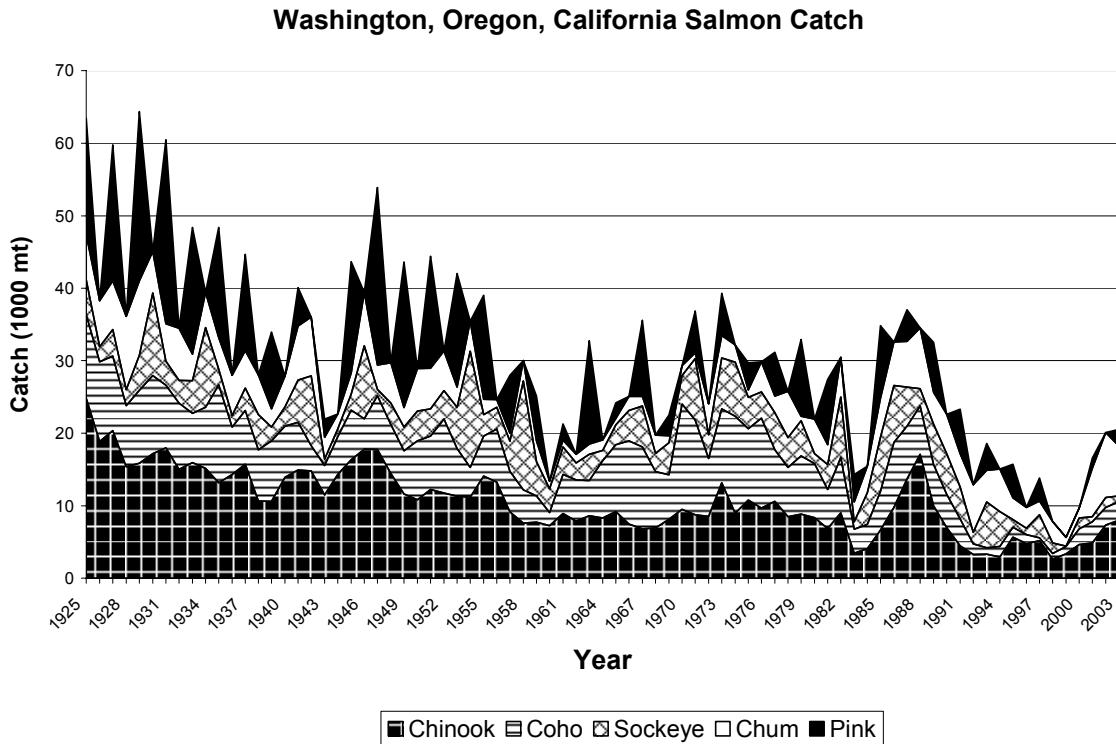


Figure 4. Commercial Catch of Pacific Salmon in weight, 1925 - 2003, by species, from Washington, Oregon, and California.

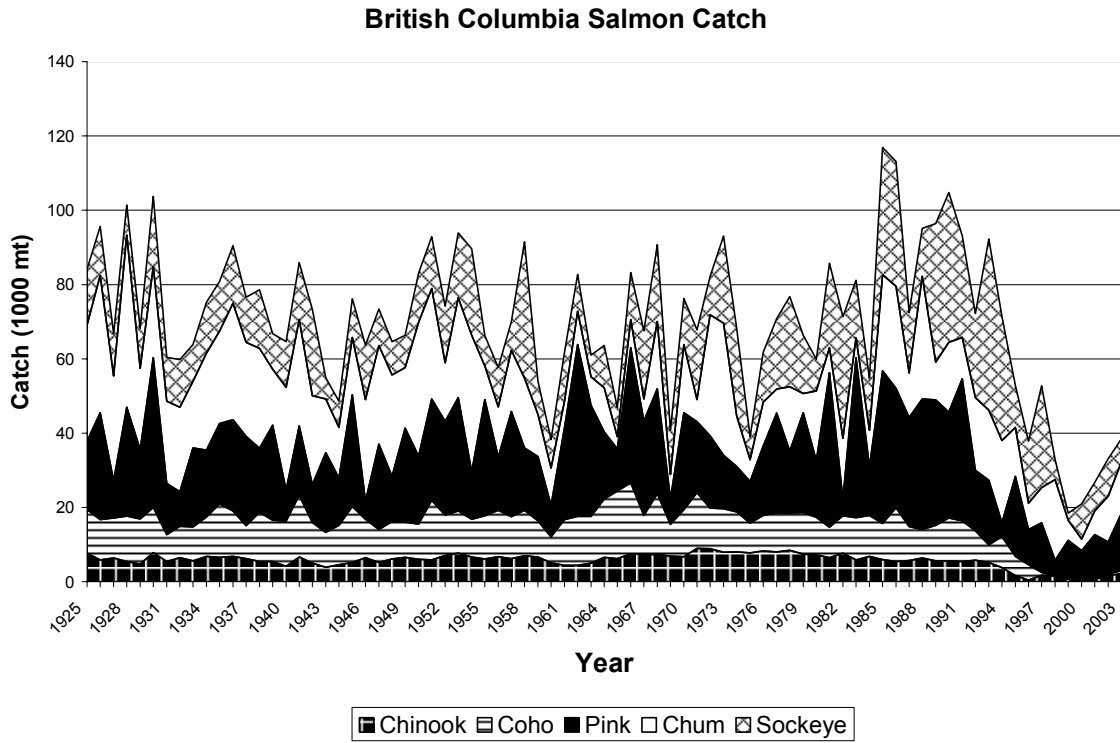


Figure 5. Commercial Catch of Pacific Salmon in weight, 1925 - 2003, by species, from British Columbia, Canada

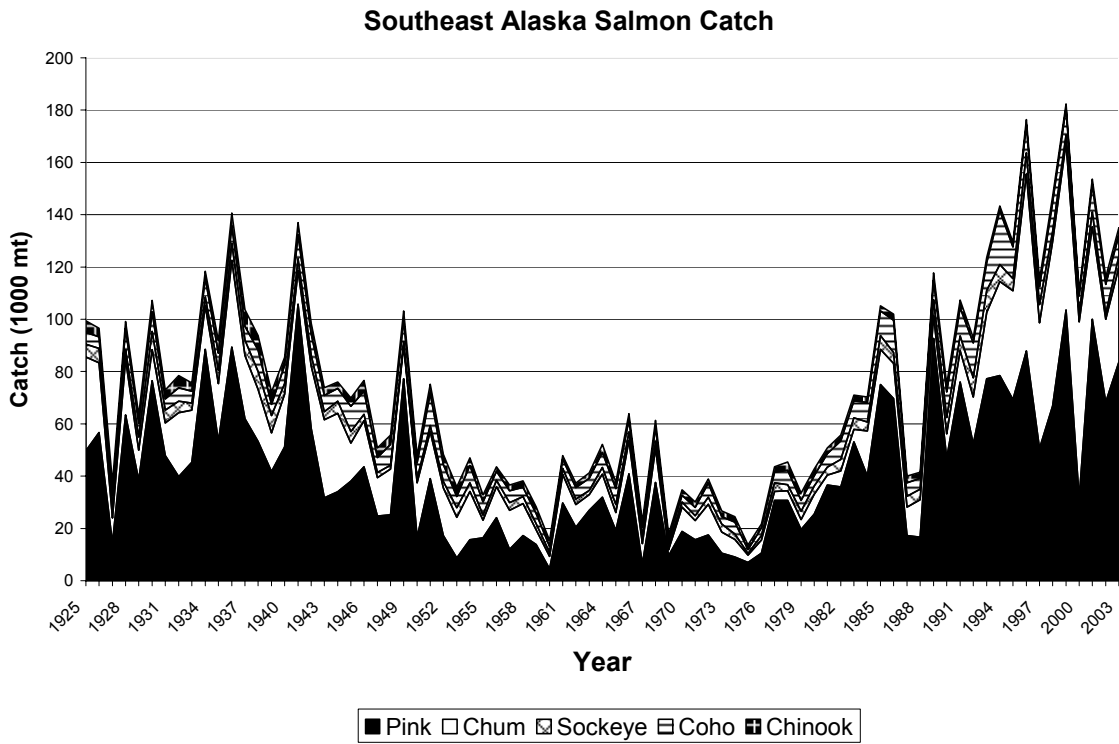


Figure 6. Commercial Catch of Pacific Salmon in weight, 1925 - 2003, by species, from Southeast Alaska.

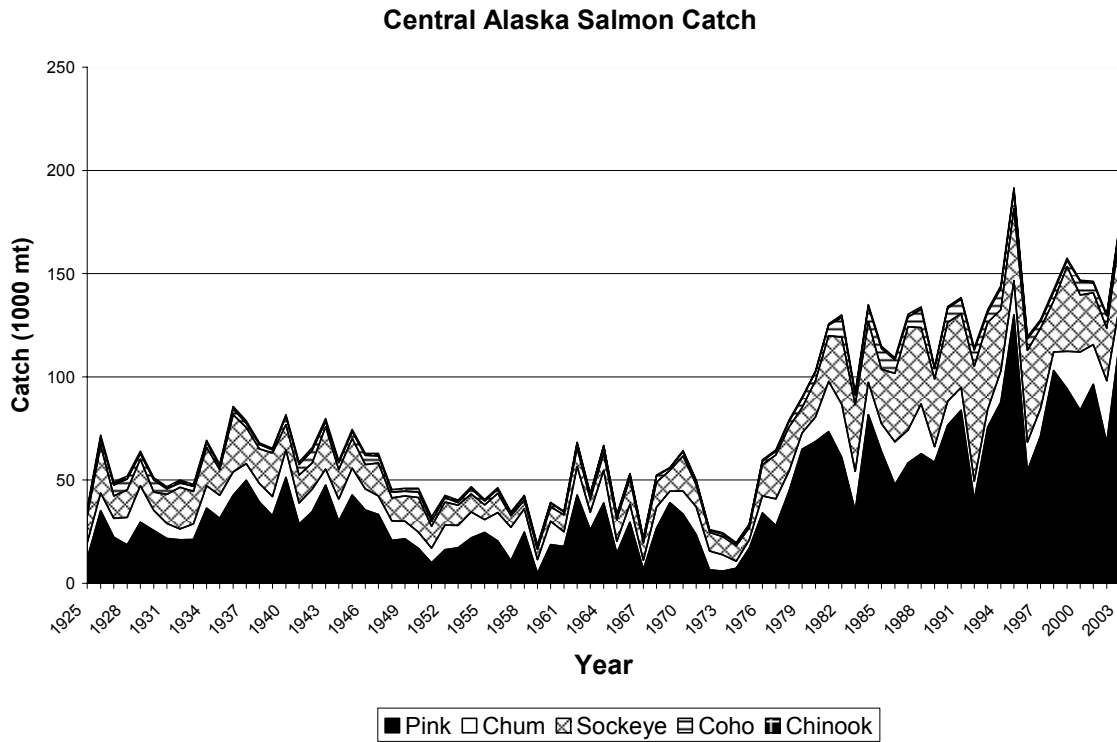


Figure 7. Commercial Catch of Pacific Salmon in weight, 1925 - 2003, by species, from Central Alaska.

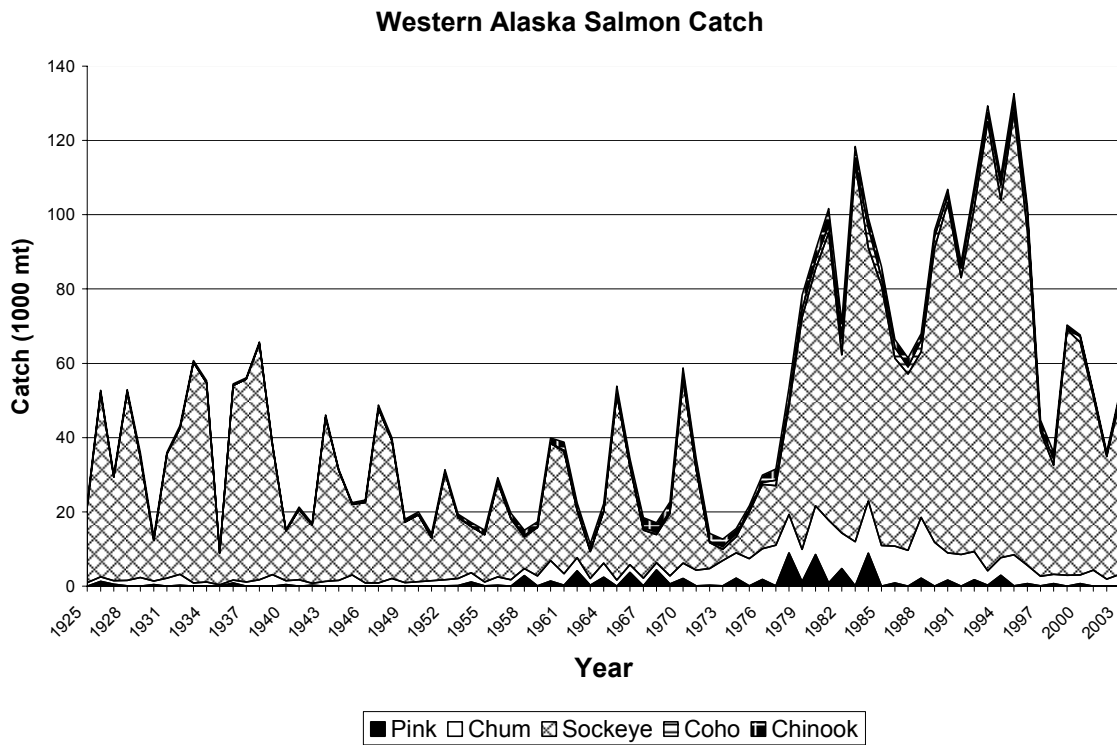


Figure 8. Commercial Catch of Pacific Salmon in weight, 1925 - 2003, by species, from Western Alaska.

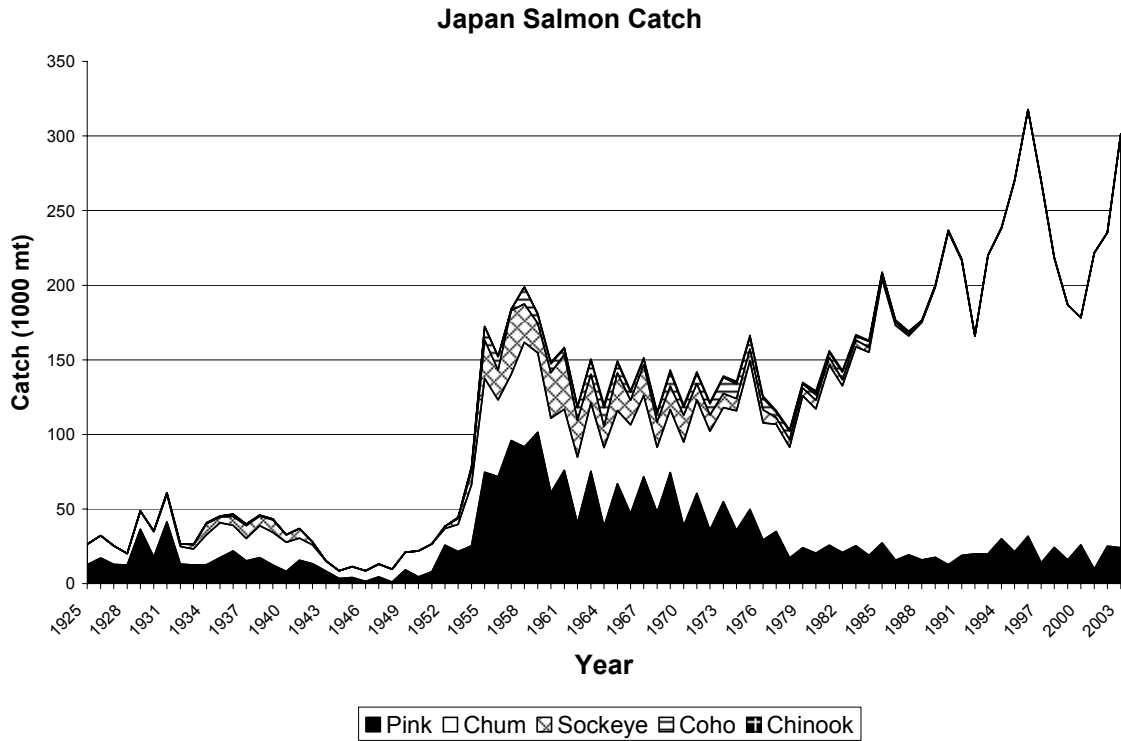


Figure 9. Commercial catch of Pacific Salmon 1925 - 2003, by species, by Japan. Note that catches of salmon by Japan before 1945 from Japanese Concessional fisheries and coastal waters of Northern Kurils and Sakhalin are included in Figure 7.

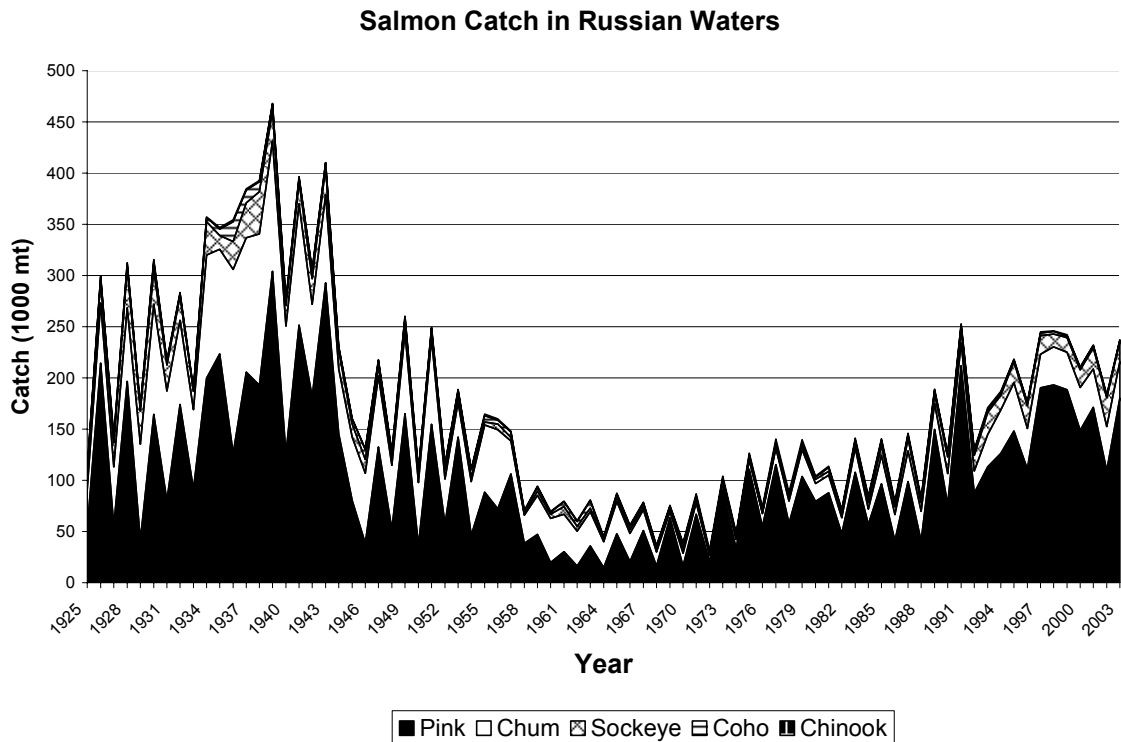


Figure 10. Commercial catch of Pacific Salmon 1925 - 2003, by species, from in what is now Russian waters.

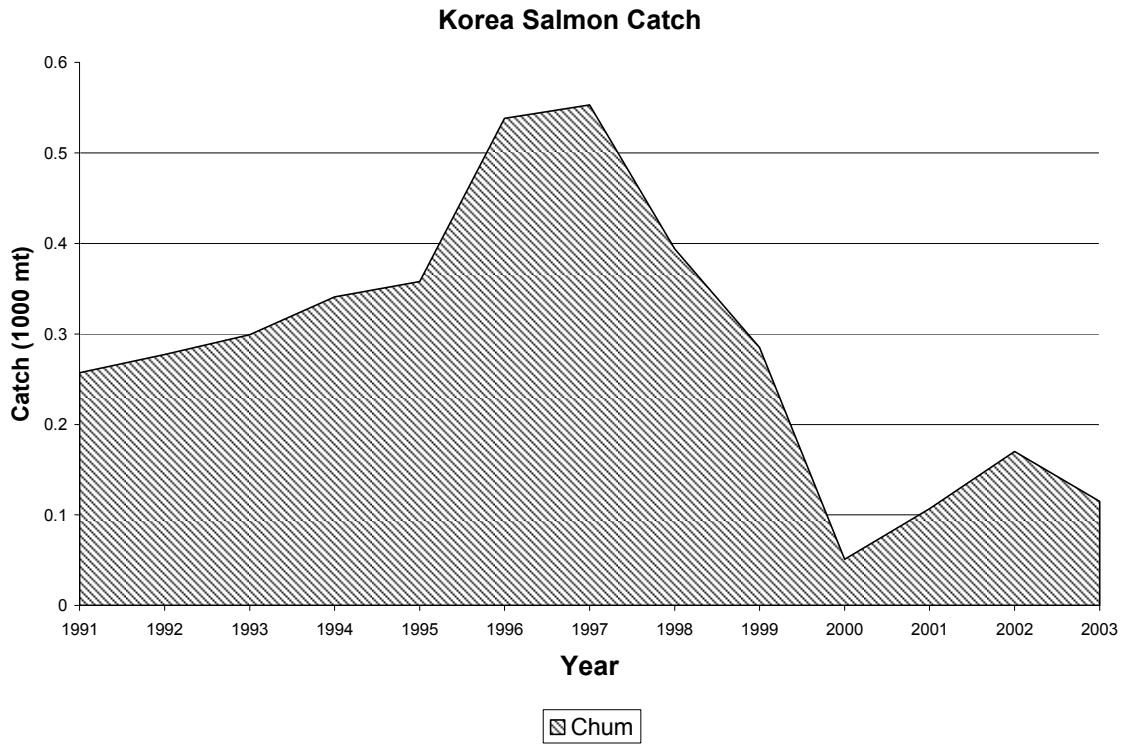


Figure 11. Commercial catch of Pacific Salmon 1991 - 2003, by species, by Korea.