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THE HISTORY OF PREDATOR CONTROL
IN ALASKA

by

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PREDATOR CONTROL IN ALASKA

The History of Organized Predator Control Programs in Territorial Alaska

Alaska has a history of intermittent control of predatory animals by the Fish and Wildlife Service and its predecessor agency, the Bureau of Biological Survey, that dates back some 40 years. In 1927, appropriations were made by the Territorial Legislature to hire a man to make general investigations and to teach trappers how to trap wolves and coyotes. This program was renewed in the mid 1930's on a similar basis, and in the late 1930's another agent was assigned to do wolf control work on the reindeer ranges of Northwestern Alaska.

During the early 1940's, as a result of increasing concern over predation on game animals, reindeer and domestic stock by wolves, effort was expended by the Fish and Wildlife Service on investigations into control methods suitable for use under Alaska conditions. By 1946, the matter of wolf predation became a prime concern of the Alaska Game Commission, non-resident sportsmen hunting in Alaska, and several national conservation organizations. As a result of the efforts of these groups, Congress in 1948 made an appropriation of \$100,000 to the Fish and Wildlife Service for the purpose of inaugurating a predatory animal control program in the Territory of Alaska. In September, 1948, an agent of the Branch of Predator and Rodent Control was assigned to Alaska to organize and direct the program.

The Territorial Legislature in 1953 enacted legislation providing for a cooperative control program between the Territory of Alaska and the Fish and Wildlife Service, and appropriated funds for this purpose. Originally the cooperating agency was the Territorial Treasurer, but in 1957, responsibility for Territorial cooperation was shifted to the newly formed Alaska Department of Fish and Game.

Although wolf control operations received greatest attention during Territorial times, control of other predators was also extensive. Sheep ranchers on Umnak and Unalaska Islands demanded control of foxes in the late 1950's, and considerable effort was expended to aid these individuals. The brown bear - cattle conflict on Kodiak Island required the assistance of predator control agents throughout the 1950's and has recurred since Statehood.

In addition to the previously mentioned predator control activities of Federal and Territorial agencies, the 1951 Territorial Legislature appropriated \$50,000 to the Alaska Department of Fisheries for the control of hair seals, sea lions and other predators on fish during the 1951-53 biennium. The Stikine and Copper River districts were selected for initial experiments on hair seal control. Expert hunters were hired in each area during 1951; and at the Copper River area, seal control using dynamite "bombs" was started. In 1952, the seal control program was expanded to include the Taku River district. From 1951 to 1958, approximately 36,000 seals and 90 sea lions were killed by personnel of the program.

In 1954, a joint control-biological investigation program was initiated with beluga whales in Bristol Bay. Several hundred of these marine mammals were killed during the summers of 1954 and 1955, but this program was temporarily discontinued when it was determined that salmon depredations by belugas were inconsequential to overall salmon populations.

The History of Bounty Payments in Territorial Alaska

In 1915, the first Territorial Legislature established a \$10 bounty on wolves. Subsequent to that time, 8 other species of birds, mammals and

fish were placed on the bounty list. In 1917, the bald eagle was included on this list, but in 1953, public sentiment resulted in Federal legislation which made killing of eagles unlawful. During the bounty period approximately 93,000 eagles were killed.

Hair seals were placed on the bounty list in 1927, coyotes in 1929, Dolly Varden char in 1933, and wolverines in 1953. Bounties on Dolly Varden were removed in 1941, when it was determined that many salmon were being bountied as Dolly Varden. The total cost of bounties from the time of their establishment to Statehood in 1959, was nearly \$3,000,000, apportioned to the various species as shown in Table 1.

Table 1. Expenditures for bounties from their establishment to 1959.

<u>Species Bountied</u>	<u>Total Cost</u>
Wolf and Coyote	\$1,530,743
Bald Eagle*	164,561
Hair Seals	1,174,084
Dolly Varden Char*	96,344
Wolverine	<u>31,875</u>
Total	\$2,997,607

*Bounties on eagles and Dolly Varden were repealed before Statehood.

Data in Table 2 show bounty appropriations and claims for coyotes and wolves in Alaska from 1915 to 1958. This information was published in the 1958 Annual Report of the Alaska Department of Fish and Game.

Policies of the Alaska Department of Fish and Game in regard to predator control with the bounty system were initially reported in the Annual Report for 1958, of the Department. In this report, Calvin Lensink, a biologist for the Department, stated: "Predator control is a necessary and valuable tool of wildlife and fisheries management. To be most useful, this tool should be applied at the right place, at the right time, and in

Table 2. Bounty appropriations and claims for wolves and coyotes, 1915 - 1958.

Biennium	Bounty Rate		Regular Appropriation	Deficiency Appropriation	Total Appropriation	No. Wolves Bountied	No. Coyotes Bountied
	Wolf	Coyote					
1. 1915-16	\$10	none	\$ 20,000		\$ 20,000		
1917-18	15		10,000		10,000		
1919-20	"		7,500		7,500		
1921-22	"		5,000	2,000	7,000	467	
1923-24	"		8,000	2,500	10,500	700	
1925-26	"		12,000	10,000	22,000	1,467	
1927-28	"		30,000	12,000	42,000	2,800	
2. 1929-30	10	\$ 5	25,000		25,000		
1931-32	15	15	40,000		40,000		
1933-34	"	"	25,000	4,000	29,000		
1935-36	20	20	40,000	45,000	85,000		
1937-38	"	"	80,000	85,000	165,000		
1939-40	"	"	165,000		165,000		
1941-42	"	17.50	165,000		165,000		
1943-44	"	"	75,000		75,000		
1945-46	30	25	60,000	60,000	120,000	1,906	1,733
1947-48	30	"	60,000	1,213	61,213	2,356	2,342
3. 1949-50	50	30	125,000	15,345	140,345	1,229	765
1951-52	"	"	100,000	1,185	101,185	1,360	844
1953-54	"	"	75,000	12,500	87,500	1,239	738
1955-56	"	"	75,000	22,500	97,500	1,531	922
1957-58	"	"	77,288	55,000	132,288		
TOTALS			\$1,202,500	\$327,243	\$1,530,743		

1. Chap. 3, SLA 1915. Bounty on wolves established.
2. Chap. 117, SLA 1929. Bounty on coyotes established.
3. Chap. 18, SLA 1949. Present bounty law for wolves and coyotes.

the most efficient way possible. All of these requirements can be met by a carefully designed program, but none of them is achieved with the bounty system."

Predator Control in Alaska Since Statehood

Formal Predator Control Programs

The Fish and Wildlife Service formally ended its programs to control wolves in Alaska in early 1960. In 1963, however, Federal personnel accompanied by State technicians reinstated a wolf control program on the Seward Peninsula in response to reported depredations on domestic reindeer. This activity was started without prior State approval but was monitored in part by State personnel.

In 1961, the Commissioner of the Fish and Game Department issued a permit for the use of poison to Mr. William Waugaman of Fairbanks. The permit provided for the use of poison in killing wolves in drainages of the Wood River.

In 1963 and 1964, local wolf control programs were carried out in the Neets Bay and Chickamin River areas in Southeast Alaska concurrent with the release of elk and moose calves in experimental introductions.

In 1967, the Alaska State Legislature House Finance Committee directed the Division of Game to conduct wolf control programs in three areas and provided \$13,400 for this specific purpose. This program was initiated in the vicinities of Petersburg and Wrangell in the spring of 1968 by animal control agents and biologists of the Department staff. Both steel traps and strychnine were employed to take wolves. Nine wolves and two wolverines were removed in this operation, but, since poisoned animals do not always die near enough poisoning sites to be located, more wolves may, in fact, have been killed.

In addition, in 1967 an animal control agent was hired to work out of Fairbanks; several wolves were taken by aerial gunning and considerable study of wolves was undertaken in the Interior area.

In 1959, harbor seal control operations at the mouths of the Stikine and Copper Rivers, originally initiated by the Territorial Department of Fisheries in 1951, were continued by the Alaska Department of Fish and Game. Approximately 1,500 seals were killed that year in the Stikine area and 975 were removed from the Copper River area. Formal seal control programs were discontinued after 1959.

Other marine mammal control programs active since Statehood have been a sea lion reduction of 4,000 animals on Sugar Loaf Island in 1963, and a combination control-research program on beluga whales which resulted in the removal of 20 of these animals from the Kvichak River in 1958-59 and 7 in 1965.

The Kodiak bear-cattle conflict, which started prior to Statehood, continued after the Alaska Department of Fish and Game assumed regulatory and management jurisdiction of the State's wildlife. In 1963, Department personnel killed 35 bears on Kodiak Island in response to demands by cattlemen. This program has continued annually with 5 bears being removed by Department personnel in 1964, 18 in 1965, 5 in 1966, 9 in 1967, 5 in 1968, and 1 so far in 1969. In all instances, only bears actually thought to be involved in cattle depredations were destroyed.

In 1961 and 1962, the Bureau of Sport Fish and Wildlife conducted limited control of black bears in the upper Little Susitna River valley. This control, designed to remove bears preying on cattle, was supported in part by the State. A very limited control program on foxes at Kotzebue was initiated in 1968 by the Department, as a result of a rabies scare in that area. The removal of less than 10 of these furbearers resulted in the alleviation of the problem.

Bounty Policies

Current Alaska Statutes (Title 16, Chapter 35, Article 2) designate bounties on wolverines, wolves, and coyotes of \$15, \$50, and \$30, respectively. Article 3 of the same Statute specifies that there is a bounty of \$3 on every hair seal inhabiting the inland and coastal waters of Alaska west of 159 degrees west longitude or north of 69 degrees north latitude, except the waters south of 58 degrees north latitude.

The Alaska Board of Fish and Game has been delegated the authority to make rules and regulations it considers advisable in accordance with the Administrative Procedure Act (A.S. Title 16, Chapter 05, Article 2). Included in this authority is the designation of Game Management Units or parts of Game Management Units in which bounties for predatory animals shall be paid. Effective as of July 1, 1969, bounty payments for coyotes and wolverine have been discontinued in all Units. Wolf bounty payments in 8 of the 26 Game Management Units were also terminated at this time. In 1968, the State Legislature amended the bounty laws to specify that only wolves taken in the Game Management Unit where a hunter resides could be bountied. Hair seal bounties remain in effect, but the 1967 legislature did remove Southeast and Southcentral Alaska from the area in which these bounties are paid. Table 3 presents seal bounty records from 1964 to 1969 and shows the effect of the 1967 restrictions.

In 1959, a "bounty information form" was made part of the certifying procedure for wolf, coyote and wolverine bounty claims. Resultant information concerning the annual harvest of these species was increased in quality and quantity by this means. Table 4 summarizes the numbers of wolves and wolverines bountied from 1959 to the present.

Aerial Permits for Hunting Wolves

During the 1950's, when the Fish and Wildlife Service was most active in its

Table 3. Seal bounty records showing the effect of restricting bounty payments in 1967.

<u>Fiscal Year</u>	<u>Bounty Payments</u>	<u>No. Seals Bountied</u>
1964-65	\$155,025	51,675
1965-66	211,386	70,462
(Legislation to restrict bounty area to Bering and Chukchi Seas and the Arctic Ocean - July, 1967)		
1966-67	40,902	13,634
1967-68	21,442	7,147
1968-69	14,905	4,968

Table 4. Summary of wolves and wolverines bountied in Alaska - 1959 to Present.

<u>Year</u>	<u>No. Wolves</u>	<u>No. Wolverine</u>
1959	227	213
1960	520	420
1961	725	441
1962	869	383
1963	757	445
1964	818	551
1965	825	420*
1966	1,360	659
1967	1,679	694
1968	1,714	578
1969	1,008*	242*

*Bounty records incomplete.

control program of wolves in Alaska, this agency experimented with various control measures in an attempt to find the most effective means of killing wolves. Ultimately it was decided that aerial hunting from a Piper "Super Cub" was superior to and/or more acceptable than other control methods in much of Alaska. The effectiveness of aerial hunting to harvest wolf populations was recognized by the Department of Fish and Game when this organization became responsible for Alaska's wildlife resources, and, since Statehood, the Department has issued permits allowing the shooting of wolves and coyotes from an airplane. Aerial hunting permits are available at all Department field offices and have been issued nearly without restriction. One exception to this occurred during the 1967-68 winter, when aerial wolf shooting permits for Unit 13 and portions of Unit 14 were issued only at the Anchorage and Fairbanks offices and were limited so that not more than 300 wolves could be taken in these Units. In addition, permits for Units 22, 23 and 26 have been restricted to the taking of only 2 wolves per permit.

Because of the inaccessibility of many portions of Alaska and the decline of trapping as a profession, aerial wolf hunting permits remain the best tool for wolf control available to this Department. An example of the effectiveness of aerial shooting as a wolf control method may be obtained by analyzing wolf bounty data from 1959 to 1967. Of 6,232 wolves bountied during this period, 2,480 or 40% were taken by aerial hunting. In areas where wolf populations are endangered by excessive exploitation, it is a simple matter for Departmental personnel to discontinue issuance of aerial permits and thus suppress the harvest of wolves.