

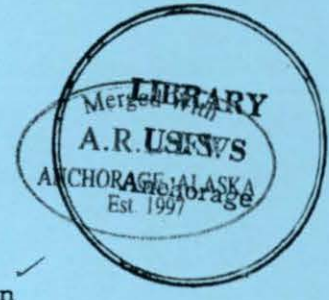


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WATERFOWL BANDING REPORT ✓

ADAK ISLAND

1981 ,



by Justine R. Logan ✓

Key Words: Waterfowl
Aleutian Islands
Waterfowl Banding

ALEUTIAN ISLANDS UNIT
ALASKA MARITIME NATIONAL WILDLIFE REFUGE
U.S. FISH AND WILDLIFE SERVICE
ADAK, ALASKA
ALASKA REGION



December 1981

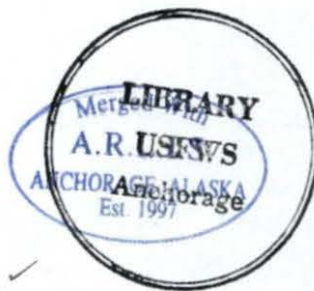
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Alaska Resources
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Anchorage, Alaska

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Waterfowl banding on Adak Island, Alaska, was conducted between 2 August and 2 October 1981. Trap locations were baited three days prior to trap construction. Four traps were set for a total of 248 trap days. Bait was discontinued on 28 September, ten days prior to the opening of waterfowl season. Banding terminated on 2 October, when traps were removed. Banders included Patty Beach, Steve Kendall, Mark Masteller, Leslie Slater, Barry Reiswig, Ed and Cathy West, Tanya Varnell, Cam Matson, Anna Martinez, Carol Hagglund and Justine Logan.

STUDY AREA

Adak Island, lying at approximately 51° 50'N, 176° 40'W, is about 1,200 miles west-southwest of Anchorage, Alaska. It comprises about 290 square miles and is deeply indented with bays and inlets. The central portion is mountainous, glacially dissected, and has extensive lowland areas around the perimeter. The temperature at sea level in summer averages 47.8°F; the annual average is 40.6 F. Average annual precipitation, all forms is 64.71 inches (Fig. 1).

Banding sites were located at Clam Lagoon, Adak Island, Alaska (Fig. 2). Cloverleaf trap No. 1 was located on the west side of Clam Lagoon on the north end of a barrow ditch near the brown cabin. Small door trap No. 2 was situated approximately 40 meters south from large door trap No. 3 at the second elbow of the stream which runs past the duck blinds. Large door trap No. 3 was set in the southwest corner of Clam Lagoon. Cloverleaf trap No. 4 was originally located on the southwest corner of Clam Lagoon at the mouth of the small creek. Due to harrassment by eagles perched on the nearby duck blind, the trap was moved eastward to mid-cove. All traps were set partly in water, because the water level in the three traps in Clam Lagoon fluctuated with the tide. Cloverleaf trap No. 1 was set approximately two feet from the waters edge.

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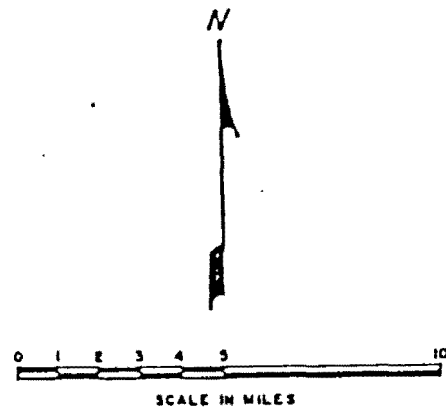
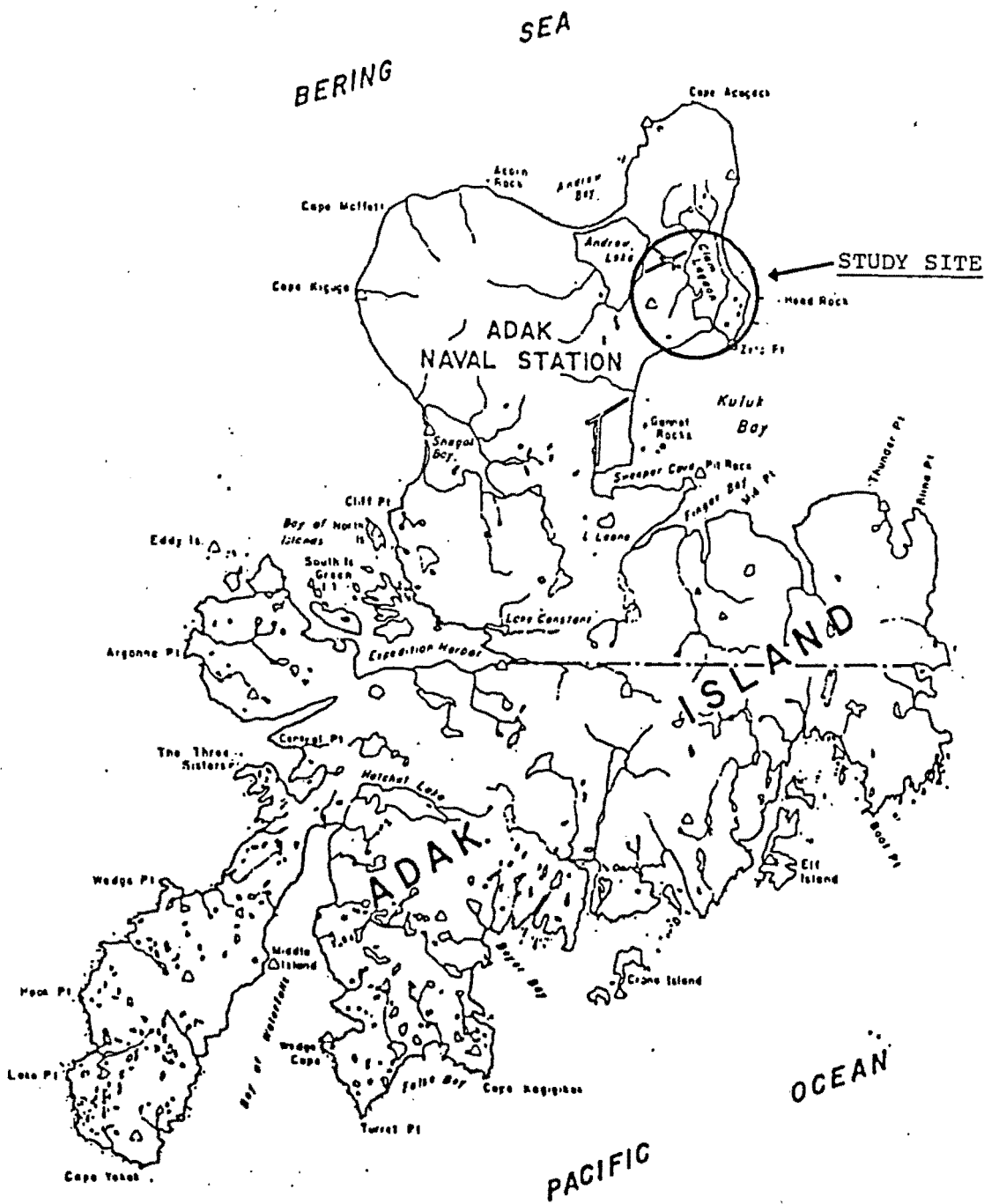


Fig. 1

Study Site
Waterfowl Banding, 1981
Clam Lagoon, Adak Island, Alaska

Fig. 2

Trap Locations
Waterfowl Banding, 1981
Clam Lagoon, Adak Island, Alaska

ANDREW BAY

NAVAL COMMUNICATIONS STATION

57

ANDREW LAKE

56

CLAM
LAGOON

55

54

TRAP SITES

- TRAP #4
- TRAP #3
- TRAP #2
- TRAP #1

53

Head Rock
Sand

52

Kuluk Shoal

51

Zelo

Zelo Point

50

NAVAL COMMUNICATIONS STATION

Antennas

METHODS AND MATERIALS

Two types of traps were used. Two modified door traps and two modified cloverleaf traps were made from 1" x 2" welded hog wire with one double-door entrance. (Appendix A).

All traps were baited with a mixture of corn, barley, millet and wheat. The corn was rarely eaten, rotted in the mud and was therefore discontinued. Barley and millet were used primarily throughout the season. Approximately four gallons of grain were used each day and divided among the four traps. Approximately 432 kg. (950 lbs.) of grain were used throughout the banding season.

Two individuals checked traps daily, bringing grain and a satchel with the necessary banding equipment. Equipment included bands of assorted sizes (Numbers 4, 4A, 6, 7A), Rite-in-the-Rain notebook, pencils, band spreaders, pliers, 2 pairs calipers, 2-meter tape-measure, spring scale (suggested 2000 grams), zippered net bag used for weighing, burlap bag and antiseptic spray.

Ducks were retrieved from cloverleaf traps by unlatching and folding back a corner of the roof and using a hand net to capture individual birds. Those captured in modified door traps were retrieved through the door with a net or by hand. All ducks were then placed in a burlap bag. A holding crate was originally used but tended to increase injury to the birds and was therefore discontinued. Immediately after all ducks were removed from the trap, each was banded, measured, weighed and released. Band numbers and all measurements were retaken and recorded of ducks banded in previous years. Banded and recaptured ducks from this season were released immediately. Birds having injuries to wings or bill were treated with an antiseptic prior to release.

Data recorded on each bird included the following: band number, time, date, species, age (Fig. 3), sex (by palpation) (Larson, J.S. and R.D. Taber 1980), weight, wing length, tail length, culmen I and II, diagonal tarsus, total tarsus, tarsus width, nail length, trap number and comments. Tail length is measured from between the two middle retrices at the place where their bases emerge from the skin to the tip of the longest tail feather when the tail is closed (Baldwin 1931). Several of the measurements are diagrammed in Figures 4 and 5.

Hatch-year After Hatch-
 year

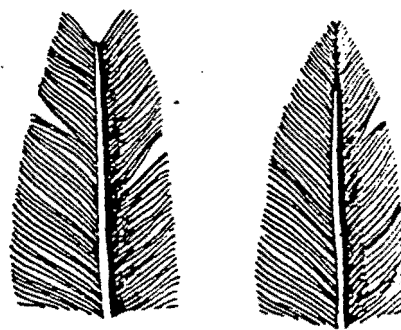


Fig. 3 - Tail feather condition used for age determination (Kortright 196

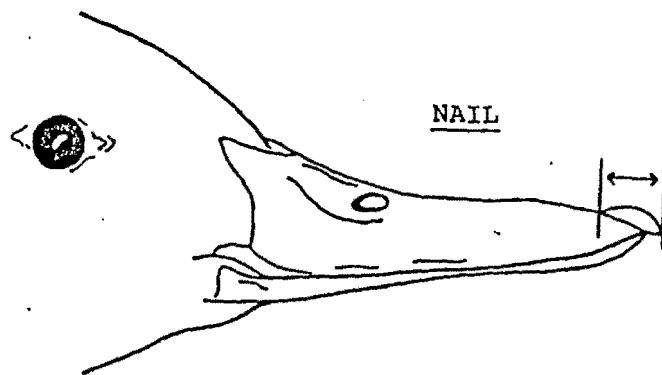
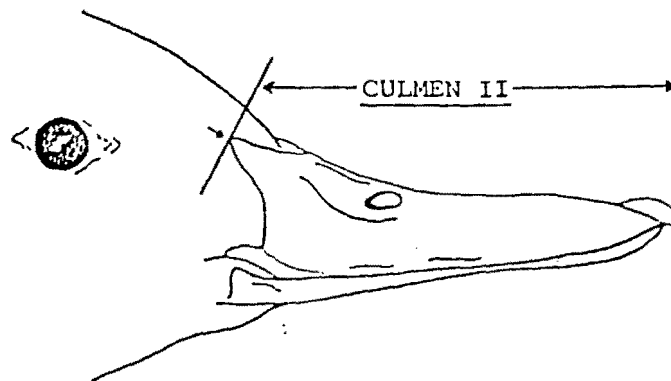
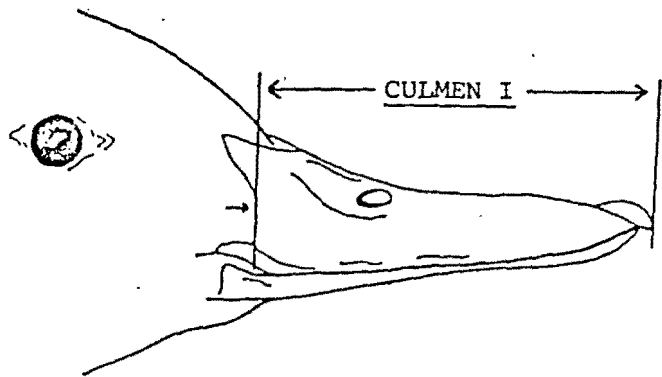
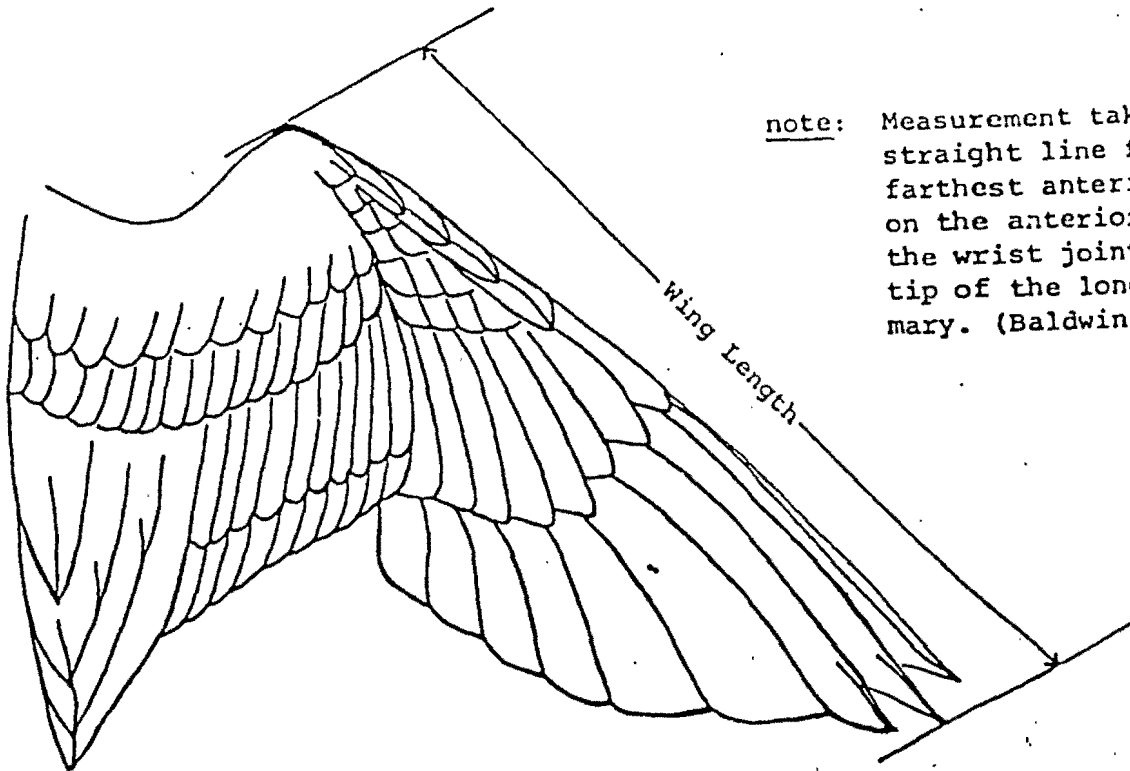
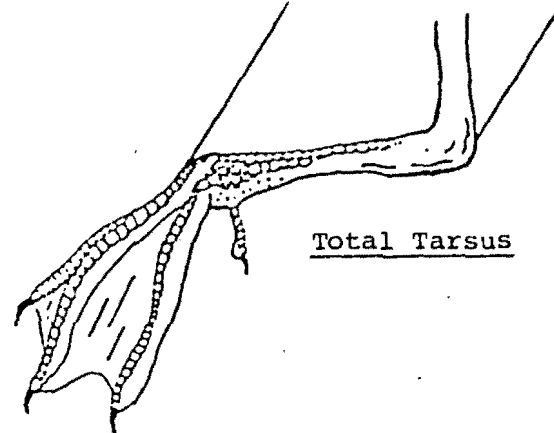
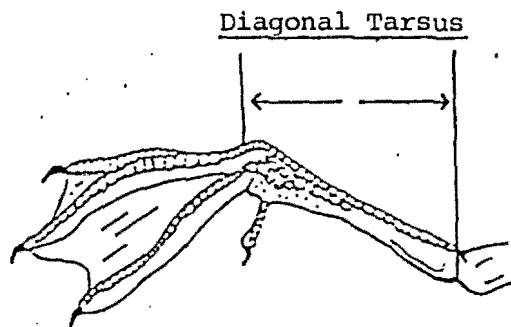
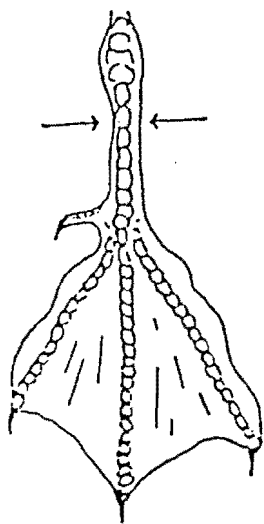


Fig. 4

Waterfowl Measurements
Waterfowl Banding, 1981
Clam Lagoon, Adak Island, Alaska



note: Measurement taken in a straight line from the farthest anterior point on the anterior edge of the wrist joint to the tip of the longest primary. (Baldwin 1931)

fig. 5

Waterfowl Measurements
Waterfowl Banding, 1981
Clam Lagoon, Adak Island, Alaska

RESULTS

A total of 210 ducks were banded including 83 Aleutian green-winged teal (*Anas crecca nimia*), 112 pintail (*Anas acuta*), 14 mallards (*Anas platyrhynchos*) and 1 shoveler (*Spatula clypeata*). Table 1 shows the numbers and species of waterfowl caught in each trap. Table 2 summarizes the numbers and species of waterfowl banded at Clam Lagoon from 1977-81.

Table 1. Clam Lagoon, Adak Island Waterfowl Trap Results, 1981

	Trap #1 (cloverleaf)	Trap #2 (small door trap)	Trap #3 (large door trap)	Trap #4 (cloverleaf)
Aleutian green-winged teal	25	5	35	18
Pintail	41	-	8	63
Mallard	1	-	1	12
Shoveler	1	-	-	-
TOTALS	68	5	44	93

Table 2. Summary of Waterfowl Banding at Clam Lagoon, Adak Island, 1977-81.

	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
Aleutian green-winged teal	133	3	164	72	83
Pintail	25	4	38	33	112
Mallard	5	1	-	20	14
Garganey teal	-	-	1	-	-
European wigeon	-	-	1	-	-
Shoveler	-	-	-	-	1
TOTALS	163	8	204	125	210

Five ducks were recaptured from 1980. Information on where and when they were banded is included in Table 3.

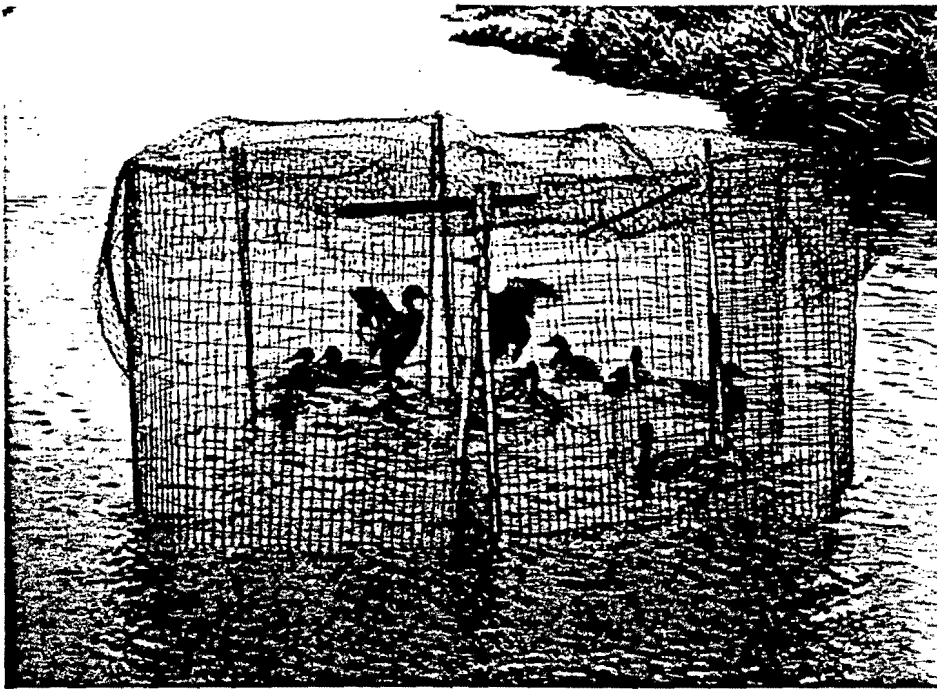
Band recoveries received since October 1980 are listed in Table 4. Information on where they were banded and encountered and distance traveled is included.

Table 3. 1981 Recaptures; Waterfowl banding, Clam Lagoon, Adak Island, Alaska.

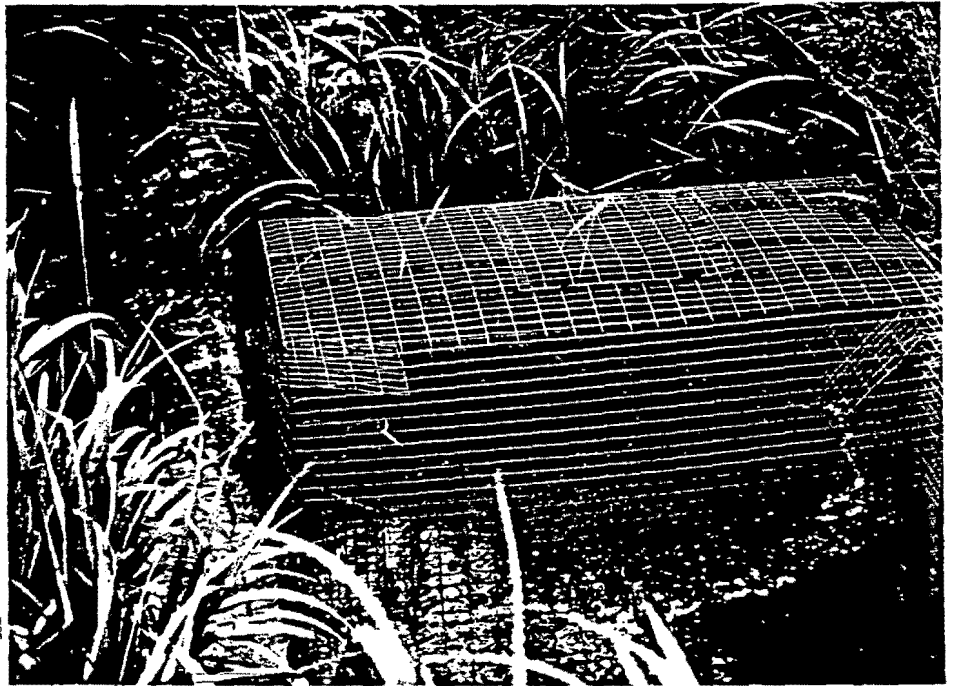
<u>Band no.</u>	<u>Species</u>	<u>Sex</u>	<u>Location of recapture</u>	<u>Date</u>	<u>Place of banding</u>	<u>Age</u>	<u>Date</u>
967-57304	Mallard	F	Clam Lagoon	09/04/81	Clam Lagoon	HY	09/18/80
756-14338	Pintail	F	Clam Lagoon	09/12/81	Clam Lagoon	HY	09/28/80
967-57306	Mallard	F	Clam Lagoon	09/14/81	Clam Lagoon	HY	09/19/80
756-14317	Pintail	F	Clam Lagoon	09/15/81	Clam Lagoon	HY	09/16/80
756-14318	Pintail	F	Clam Lagoon	09/17/81	Clam Lagoon	HY	09/16/80

Table 4. Waterfowl Band Recoveries, Adak Island, Alaska, 1980-81.

<u>Band No.</u>	<u>Species</u>	<u>Sex</u>	<u>Date/Location of encounter</u>	<u>Date/Location of banding</u>	<u>Distance traveled</u>
876-80187	Pintail	M	10/18/80 Willows, CA	08/01/80 Constantine Hbr. AK	5350 km
756-14325	Pintail	F	12/80 Tillamook Bay, OR	09/21/80 Adak, AK	4450 km
756-14320	Pintail	F	01/03/81 Grizzly Island, CA	09/18/81 Adak, AK	5010 km
756-14078	Pintail	F	02/11/80 Tone River Chiba, Japan	09/29/79 Adak, AK	4375 km
997-17531	Mallard	F	05/02/81 Near Kipnuk, AK	10/21/77 Amchitka Island, AK	1385 km



Cloverleaf Trap #1



Small Door Trap #2