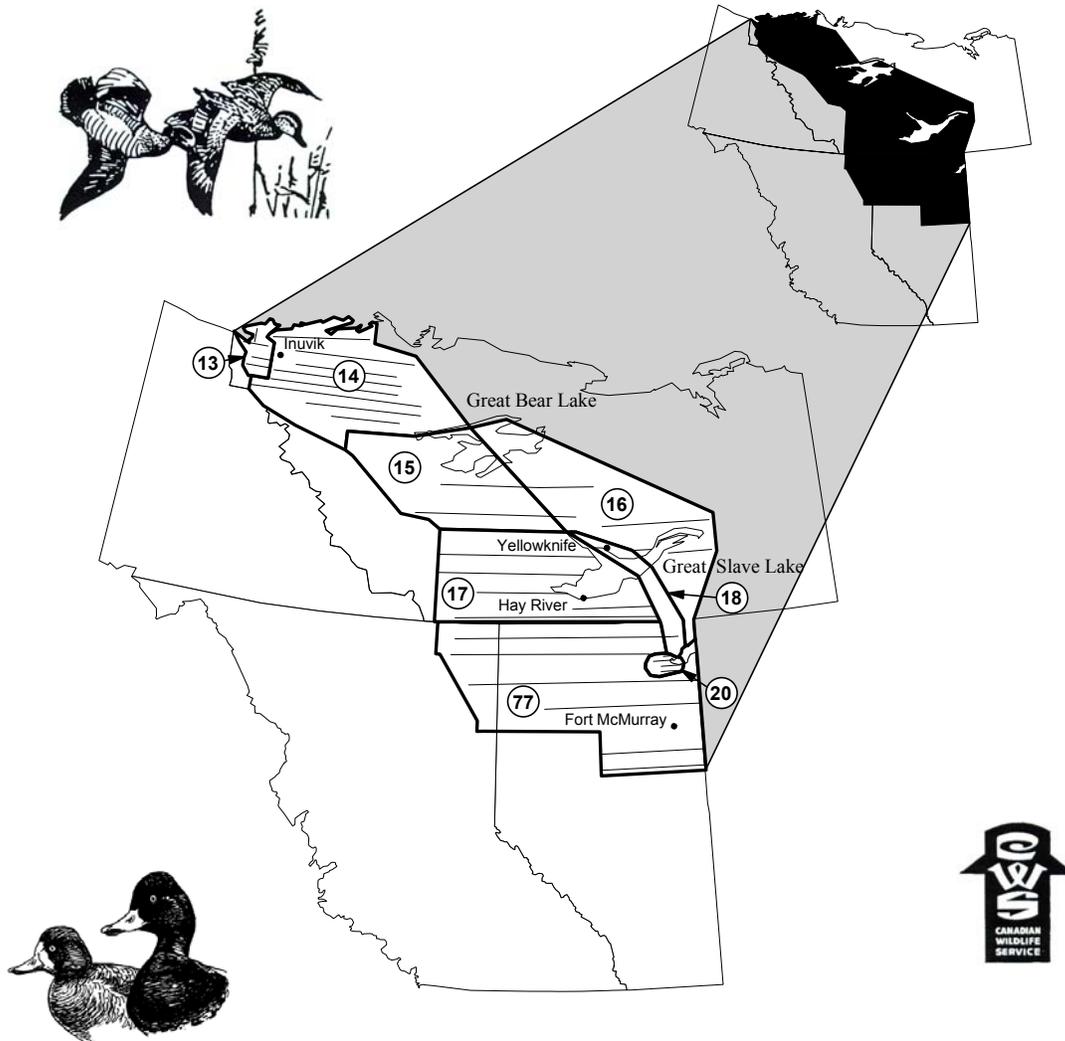


2005

NORTHERN ALBERTA, NORTHEASTERN BRITISH COLUMBIA AND THE NORTHWEST TERRITORIES



The data presented in this report are preliminary. Final estimates are available from the U.S. Fish and Wildlife Service, Office of Migratory Bird Management, Patuxent Wildlife Research Center, Laurel, Maryland 20708-4016.

TITLE: Waterfowl Breeding Population and Habitat Survey for Northern Alberta, Northeastern British Columbia, and the Northwest Territories (Mackenzie District)

ABSTRACT:

Total duck numbers were down from 2005, (-25.6%). Dabblers were down, (-41.9%); divers were slightly down, (-3.5%); and miscellaneous species were down also, (-40.1%). Spring arrived a little late in the eastern and elevated areas of the survey unit. Early waterfowl nesters were delayed from moving into those areas. In the southern and western portions of the survey area, spring arrived early, thus favoring early nesters. There was no evidence of a waterfowl over flight from the prairie areas this spring. Data is presented in Table 1, Figure 1, and Appendix 1.

METHODS:

This survey was conducted using procedures found in the Standard Operating Procedures for Aerial Breeding Ground and Habitat Survey, Section IV (A), revised 1977. Two Toshiba 440 CDX Satellite Pro laptop computers, using a program developed by the Migratory Bird Office, Juneau, AK, and the Division of Migratory Bird Management, Laurel, MD, were used to record and process field data. The pilot/observer had previously flown the survey area twenty out of the last twenty-one years as either pilot/observer or observer. The right seat observer was new to this particular survey, but has had considerable aerial waterfowl survey experience.

Transect flights within Strata 77 through 13 were flown using N783, a Cessna - 206 amphibian aircraft. The survey was initiated out of Edmonton, Alberta on May 22 and completed on June 18 at Norman Wells, NWT. It involved approximately 134 hours of aircraft flight time covering approximately 10,500 total miles, of which were 5,634 miles on 36 transects, comprising 313 segments. Survey dates for individual stratum are as follows: Stratum **77**, May 22-31; Stratum **20**, May 29-31; Stratum **17**, June 2-9; Stratum **18**, May 31-June 9; Stratum **16**, June 3-10; Stratum **15**, June 9-10; Stratum **14**, June 15-June 18; and Stratum **13**, June 14. All segments were flown. During the first two days of the survey, an electrical wiring problem in the aircraft prevented both observers from receiving global positioning "hits" on their waterfowl observations on the Toshiba laptops used to record data. A laptop recording malfunction on the left seat side on May 26 resulted in the lack of data for the pilot/observer. That transect was flown again on May 27 once the problem was corrected. Inclement weather, mandatory crew rest days, and scheduled aircraft maintenance delayed the survey ten days.

SPRING HABITAT CONDITIONS

Northern Alberta and Northeastern British Columbia

Even though this area received normal winter precipitation, most of the survey area in northern Alberta was fairly dry because of below average spring precipitation. Numerous wildfires were reported throughout the stratum during the survey period. Spring and subsequent snowmelt came early along with above average temperatures during April. These conditions covered most of northern Alberta right to the territorial border. All mid-size and large lakes were ice free, even at higher elevations on the Caribou and Birch Mountains. Water levels were low in most of the shallow drainage basins, wetland flats, bogs, small beaver flowages, and intermittent streams. Only permanent lakes and large beaver flowages, with higher water levels, had adequate habitat available for waterfowl.

All of stratum 77 experienced an earlier than normal spring, but a cold snap during the first of May retarded this early start. The dry spring conditions adversely affected the availability of breeding habitat for most waterfowl species. This area was rated as fair.

Athabasca Delta

Normally spring, in the Athabasca Delta, is two to three weeks ahead of the rest of Alberta. This year was no different. The largest lake, Lake Claire, was wide open, with no ice. The Delta experienced a below normal flooding this spring, quite a difference from last year (2004). All of the wetlands surveyed associated with Lakes Baril, Claire, Hilda, Mamawi, and Richardson had lower than normal water levels. Many of the smaller connected wetlands were dry or almost dry, and the normally deeper sloughs also had reduced water levels. There was less water and habitat available for spring breeding waterfowl. This stratum was rated as fair.

Northwest Territories (Mackenzie District)

The southern portion of the Territories was surveyed during the last week of May. Spring arrived earlier than normal, with all wetlands ice-free, including the mid-size and larger lakes on the Horn Plateau. This area had water overflowing from beaver flowages and small size wetlands from recent rains. This area was rated as good.

The Canadian Shield portion of the survey area was rated as fair because of the late spring and the subsequent late ice-out. The northeastern area was still "locked in winter's grip" when we flew the survey during the first week of June. Spring started early, but was held up during May due low temperatures and snow. Water levels are near or above normal for this part of the Territories.

The middle portion of the Mackenzie Valley, north and south of Norman Wells, was rated as good for waterfowl habitat, with above normal winter snowmelt filling all available wetland basins, drainage flats, and small lakes by the second week of June. All mid-size and large lakes were ice free by June 10.

We surveyed the upper portion of the Mackenzie Valley on June 15. This portion of the Territories was rated as good with all small to mid-size lakes and all shallow wetlands ice-free. All of the larger lakes had wide ice-free margins with the winter snowmelt and additional spring precipitation providing normal water levels. This area experienced an earlier than normal spring and will provide good breeding habitat for both early and later nesting waterfowl species.

The Mackenzie Delta was flown on June 14. Spring and ice breakup were early this year and normal water conditions prevailed in the interior lakes and sloughs. This area was rated as good.

SUMMARY:

BREEDING POPULATION ESTIMATES:

The long-term trend in adjusted waterfowl breeding population estimates is presented in Table 1. The 2005 waterfowl breeding population data listed by stratum for survey area 10 is also in Table 1, along with the comparison for 2004, and the ten-year and long-term means. Total ducks indicated a -25.6% decrease from 2004, a -31.1% from the ten-year mean, and a -48.4% decrease from the long-term mean.

The dabbling duck population estimate decreased -24.4% from 2004, decreased -50.2% from the ten-year mean, and decreased -58.4% below the long-term mean. The only dabbling species whose population estimate indicated a slight increase was the American widgeon (+2.6%). Dabbling species estimates that indicated a decrease included northern shoveler (-24.6%), mallard (-58.2%), northern pintail (-46.5%), gadwall (-38.8%) and blue-winged teal (-71.9%).

The breeding population estimate for diving ducks also decreased in 2005 (-3.5%). Estimates remained below the ten-year mean (-10.4%) and the long-term mean (-34.1%). Diving species whose estimates increased in 2004 included redhead (+15.5%), ring-necked duck (+32.5%), bufflehead (+26.0%) and ruddy duck (+21.1%). Diving species whose estimates decreased this year included scaup (-14.4%), canvasback (-14.3%) and goldeneye (-25.1%).

Concerning miscellaneous species, long-tailed duck decreased (-40.3%) from 2004, along with scoters (-41.6%) and mergansers (-17.3%).

CONCLUSIONS:

1. During the survey period, habitat conditions in northern Alberta and the Athabasca Delta were rated as fair because of reduced spring precipitation. Water levels were reduced, especially in shallow wetlands, in much of the available waterfowl habitat in these two strata.
2. The Mackenzie River Valley and adjacent drainage "opened up" rather early, with waterfowl concentrating throughout this area to the Mackenzie Delta. Spring arrived later than normal on the eastern side of the Territories. Waterfowl habitat was rated as good on the western side and fair on the eastern side because of the timing differences.
3. Waterfowl production should be down from last year for dabblers because of a reduction of breeding ducks observed and reduced habitat for nesting in the eastern portions of the unit due to a late spring. Production for divers should be similar to 2004, while production of miscellaneous species should be down because observed ducks on the survey were forty percent less than 2004.

Submitted by:

Carl Ferguson, Flyway Biologist

July 15, 2005

Table 1. Status of waterfowl breeding population estimates (thousands, adjusted for visibility bias) by species and stratum with comparisons against the previous year, the previous 10-year mean, and the long-term mean for Northern Alberta, Northeastern British Columbia, and the Northwest Territories.

Species/Ponds	Stratum (2005)								% Change From						
	13	14	15	16	17	18	20	77	2005 Total	2004 Total	10-Year Mean	Long- Term Mean	2004	10- Year Mean	Long- Term Mean
Ducks															
Dabblers															
Mallard	12.8	32.2	28.2	10.1	26.7	14.3	8.2	34.0	166.4	398.4	657.5	788.1	-58.2%	-74.7%	-78.9%
Am. black duck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	--	--	-100.0%
Gadwall	8.3	0.0	2.8	0.0	2.8	0.0	0.9	1.6	16.5	27.0	32.2	19.8	-38.8%	-48.7%	-16.8%
Am. wigeon	107.3	172.8	5.8	45.6	46.2	16.2	1.9	134.8	530.5	516.8	701.3	805.1	2.6%	-24.4%	-34.1%
Am. green-winged teal	2.1	3.4	14.7	9.6	51.0	0.0	4.9	194.5	280.2	739.4	659.1	647.1	-62.1%	-57.5%	-56.7%
Blue-winged teal	0.0	0.0	0.0	0.0	4.8	0.0	4.3	21.3	30.4	108.1	93.8	147.1	-71.9%	-67.6%	-79.4%
N. shoveler	12.4	0.0	9.8	25.6	19.5	0.0	6.1	27.1	100.5	133.3	148.8	164.9	-24.6%	-32.5%	-39.1%
N. pintail	19.0	30.1	9.9	13.0	2.5	0.0	2.9	14.4	91.8	171.4	151.1	348.4	-46.5%	-39.3%	-73.7%
Subtotal	161.9	238.4	71.2	103.9	153.5	30.5	29.2	427.6	1216.2	2094.4	2443.8	2920.6	-41.9%	-50.2%	-58.4%
Divers															
Redhead	14.9	0.0	0.0	0.0	1.4	0.0	0.6	1.6	18.6	16.1	12.4	17.4	15.5%	50.1%	7.2%
Canvasback	2.8	0.0	0.0	6.3	5.4	0.0	16.3	41.5	72.4	84.4	73.9	53.6	-14.3%	-2.1%	35.2%
Scaups	48.3	468.8	97.4	169.5	209.2	81.6	2.2	141.4	1218.5	1422.7	1507.5	2418.6	-14.4%	-19.2%	-49.6%
Ring-necked duck	18.2	20.1	48.8	7.4	42.0	47.2	3.9	57.1	244.8	184.7	247.3	147.0	32.5%	-1.0%	66.5%
Goldeneyes	1.0	6.3	0.0	0.0	1.7	3.1	1.5	0.0	13.6	18.1	33.9	88.3	-25.1%	-59.9%	-84.6%
Bufflehead	0.0	15.4	35.1	64.9	62.7	40.3	3.6	177.0	399.1	316.7	319.0	269.8	26.0%	25.1%	47.9%
Ruddy Duck	0.0	2.6	5.6	0.0	9.7	0.0	1.2	3.1	22.1	18.2	25.9	22.9	21.1%	-14.6%	-3.7%
Subtotal	85.3	513.1	186.9	248.2	332.1	172.2	29.5	421.8	1989.0	2061.0	2219.9	3017.6	-3.5%	-10.4%	-34.1%
Miscellaneous															
Long-tailed duck	0.5	46.3	3.7	17.0	1.9	0.0	0.0	0.0	69.4	116.3	82.0	237.8	-40.3%	-15.3%	-70.8%
Eiders	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	--	--	-100.0%
Scoters	11.8	204.5	42.8	70.0	24.6	16.2	0.0	1.5	371.2	635.3	516.8	881.8	-41.6%	-28.2%	-57.9%
Mergansers	0.0	2.2	1.2	14.0	5.3	0.0	2.9	8.5	34.2	41.3	76.6	74.2	-17.3%	-55.4%	-53.9%
Subtotal	12.3	253.0	47.7	101.0	31.8	16.2	2.9	10.0	474.9	792.9	675.4	1194.4	-40.1%	-29.7%	-60.2%
Total Ducks	259.5	1004.5	305.7	453.1	517.4	218.9	61.6	859.4	3680.1	4948.3	5339.2	7132.6	-25.6%	-31.1%	-48.4%
Canada Goose	0.0	24.1	38.8	10.2	41.2	2.4	5.0	15.0	136.7	120.2	136.0	147.9	13.7%	0.5%	-7.5%
Am. coot	0.0	0.0	0.0	0.0	4.4	0.0	0.5	0.0	4.9	66.6	54.3	55.1	-92.7%	-91.0%	-91.2%

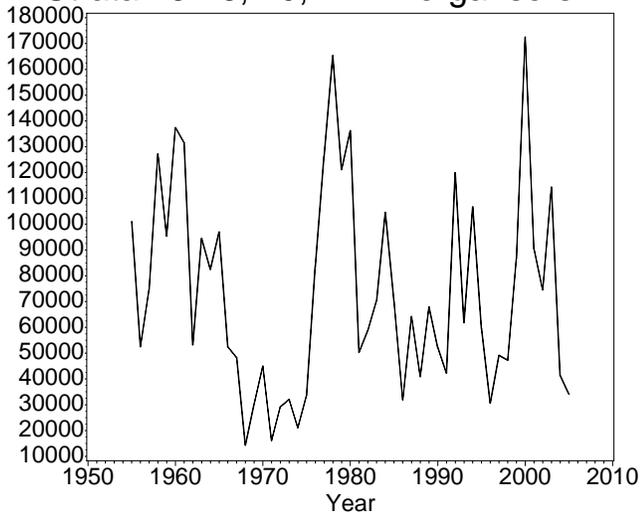
Appendix 1. Long-term trend in adjusted waterfowl breeding population estimates (thousands) for Northern Alberta, Northeastern British Columbia, and the Northwest Territories.

Species/Ponds	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Ducks										
Dabblers										
Mallard	1299.6	1148.0	816.6	1019.1	2016.3	687.2	1862.4	1102.5	1027.7	1171.1
Am. black duck	0.6	0.6	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0
Gadwall	0.6	0.0	1.6	0.6	0.3	0.0	1.3	9.1	0.0	2.5
Am. wigeon	1331.7	1102.1	1105.7	724.4	1828.5	1540.0	1586.6	819.6	788.4	1185.4
Am. green-winged teal	878.0	675.0	529.0	643.6	1726.9	851.5	1067.8	387.3	874.8	1062.1
Blue-winged teal	204.0	159.2	25.5	107.5	360.3	355.7	385.9	162.9	34.1	365.2
N. shoveler	256.4	162.1	94.0	170.1	537.7	193.3	389.7	187.2	76.9	473.7
N. pintail	1078.4	608.1	543.8	920.6	2426.1	685.8	1226.7	441.3	298.0	445.1
Subtotal	5049.2	3855.1	3116.2	3585.9	8899.9	4313.4	6520.2	3109.9	3099.9	4705.1
Divers										
Redhead	31.9	27.5	19.6	11.5	46.8	23.8	35.2	56.0	12.9	44.6
Canvasback	45.4	18.4	15.1	63.2	70.7	56.8	37.0	27.8	91.7	69.2
Scaups	2423.2	2297.7	2300.5	2020.8	3629.0	2347.7	2724.1	2620.7	2919.7	2572.7
Ring-necked duck	189.9	200.6	114.1	91.3	393.4	164.5	69.3	122.9	112.5	137.1
Goldeneyes	202.8	93.6	88.5	142.2	492.6	122.8	264.6	230.1	32.2	127.1
Bufflehead	156.1	173.7	152.4	132.2	238.8	209.7	160.7	209.2	151.9	233.9
Ruddy Duck	19.6	15.1	6.9	8.7	44.7	23.5	17.5	1.2	22.2	2.1
Subtotal	3068.9	2826.6	2697.1	2470.1	4916.1	2948.9	3308.3	3267.9	3343.3	3186.8
Miscellaneous										
Oldsquaw	450.0	347.8	380.1	451.6	607.7	367.3	432.4	278.7	163.4	522.2
Eiders	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scoters	1416.2	1219.3	1322.7	1043.0	1602.3	1606.7	1252.5	721.9	759.8	1290.2
Mergansers	101.0	52.5	74.8	127.2	95.3	137.4	131.6	53.2	94.5	82.5
Subtotal	1967.3	1619.5	1777.6	1621.8	2305.3	2111.4	1816.5	1053.8	1017.7	1894.9
Total Ducks	10085.4	8301.2	7590.9	7677.8	16121.3	9373.7	11645.0	7431.7	7460.8	9786.9
Canada Goose	361.6	414.0	148.6	285.5	502.8	264.6	131.3	90.7	232.5	17.7
Am. coot	28.2	3.0	0.0	0.0	156.8	3.9	38.8	19.2	8.7	7.5
Species/Ponds										
Ducks										
Dabblers										
Mallard	589.9	675.9	604.6	730.0	530.8	753.1	807.6	1132.1	696.4	575.4
Am. black duck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gadwall	6.1	1.9	6.7	0.3	0.3	14.3	1.3	10.7	8.6	0.9
Am. wigeon	909.0	888.2	456.1	384.6	578.6	850.7	766.1	851.9	912.5	492.0
Am. green-winged teal	649.9	800.5	457.8	492.7	204.7	358.4	429.8	569.3	535.4	242.2
Blue-winged teal	173.3	52.1	9.6	5.3	14.7	21.0	33.0	81.8	10.0	31.7
N. shoveler	165.5	180.8	113.0	101.6	42.4	57.7	108.5	157.3	142.2	72.5
N. pintail	392.4	190.1	105.4	197.1	74.8	100.0	85.4	426.3	351.0	227.3
Subtotal	2886.1	2789.5	1753.2	1911.6	1446.3	2155.2	2231.7	3229.5	2656.1	1642.1
Divers										
Redhead	6.8	5.0	18.6	9.5	5.3	8.3	6.1	10.3	5.6	2.9
Canvasback	44.6	120.5	21.0	93.0	61.6	30.4	40.5	16.8	21.0	10.4
Scaups	2607.5	2490.3	2741.4	1970.3	2523.7	2719.4	2934.8	5090.7	3328.3	2795.1
Ring-necked duck	225.5	159.6	133.7	94.3	54.9	108.4	105.9	59.7	106.9	42.2
Goldeneyes	119.3	34.7	60.3	24.3	35.0	17.6	30.7	33.3	39.3	36.2
Bufflehead	191.9	241.5	182.2	212.9	277.7	230.1	354.0	291.2	236.8	277.7
Ruddy Duck	2.1	17.5	11.1	0.6	0.9	1.8	2.5	15.2	15.0	6.7
Subtotal	3197.8	3069.1	3168.2	2404.8	2959.2	3115.9	3474.5	5517.2	3752.9	3171.2
Miscellaneous										
Oldsquaw	320.8	460.2	402.3	165.1	460.3	283.3	224.6	105.7	181.4	218.8
Eiders	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scoters	965.9	611.8	712.7	606.7	855.5	1172.6	640.6	1093.5	905.4	1098.0
Mergansers	96.9	52.5	48.4	14.3	30.2	44.9	16.1	29.2	32.1	21.1
Subtotal	1383.6	1124.5	1163.4	786.1	1346.0	1500.9	881.3	1228.4	1118.8	1338.0
Total Ducks	7467.5	6983.1	6084.8	5102.6	5751.5	6772.1	6587.5	9975.1	7527.9	6151.2
Canada Goose	68.7	152.7	134.4	70.4	85.3	131.5	122.4	111.8	64.4	38.3
Am. coot	3.4	35.5	1.0	43.7	9.8	4.0	3.2	6.8	27.0	29.7

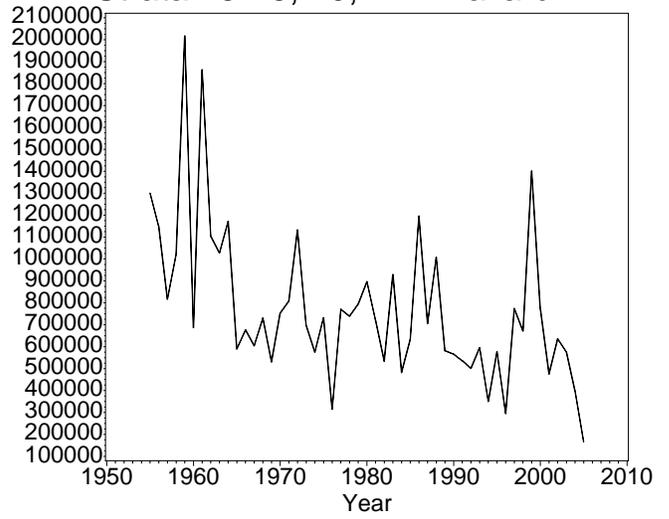
Appendix 1 (continued). Long-term trend in adjusted waterfowl breeding population estimates (thousands) for Northern Alberta, Northeastern British Columbia, and the Northwest Territories.

Species/Ponds	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Ducks										
Dabblers										
Mallard	731.9	314.7	770.4	739.4	794.9	896.2	719.2	534.1	928.4	482.6
Am. black duck	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gadwall	0.0	5.2	17.6	10.2	32.3	43.8	52.5	51.0	2.5	23.1
Am. wigeon	650.3	538.8	846.7	993.4	729.6	992.2	916.0	589.3	556.3	1187.1
Am. green-winged teal	468.3	225.6	370.6	678.7	582.6	585.6	626.2	692.4	842.9	468.5
Blue-winged teal	55.9	111.7	474.5	213.6	187.2	367.8	283.9	159.3	107.5	92.9
N. shoveler	116.3	81.9	256.2	64.4	79.7	207.4	204.5	77.9	74.5	140.9
N. pintail	381.6	246.5	532.6	244.2	196.2	289.6	314.5	103.7	392.0	399.6
Subtotal	2404.3	1524.6	3268.6	2944.0	2602.5	3382.7	3116.8	2207.6	2904.1	2794.7
Divers										
Redhead	2.4	3.1	23.4	20.2	12.4	28.7	18.4	7.2	9.9	33.8
Canvasback	32.0	37.6	48.1	29.9	28.3	59.6	113.3	48.7	55.3	51.6
Scaups	3215.2	2529.6	2900.0	2676.5	3166.2	3063.0	3028.7	2516.7	3230.8	3667.5
Ring-necked duck	73.3	61.9	179.8	153.5	90.3	101.7	94.6	61.2	101.1	89.1
Goldeneyes	33.6	47.5	74.5	112.2	169.7	184.0	108.2	74.1	69.5	298.8
Bufflehead	294.8	267.0	258.7	278.8	328.0	293.9	244.1	185.1	406.3	442.9
Ruddy Duck	4.0	1.6	26.8	8.3	7.8	19.0	28.8	23.0	118.2	51.7
Subtotal	3655.3	2948.2	3511.3	3279.4	3802.8	3750.0	3636.0	2916.1	3991.2	4635.3
Miscellaneous										
Oldsquaw	196.2	176.1	193.7	180.1	626.4	322.0	171.8	193.7	113.0	601.3
Eiders	0.0	0.0	0.0	0.0	3.2	0.0	0.0	3.0	0.0	0.0
Scoters	769.7	725.0	922.2	1202.6	1400.9	1101.8	1024.9	846.6	1077.6	1295.4
Mergansers	33.6	83.6	126.1	165.3	121.1	136.2	50.3	58.7	70.3	104.6
Subtotal	999.4	984.6	1242.0	1548.0	2151.7	1560.0	1247.0	1102.0	1260.8	2001.2
Total Ducks	7059.0	5457.5	8021.8	7771.3	8557.0	8692.7	7999.8	6225.7	8156.2	9431.2
Canada Goose	89.4	57.8	45.2	61.8	69.7	58.7	131.4	77.1	172.5	67.8
Am. coot	11.8	0.0	295.1	59.8	5.1	337.0	128.9	54.8	133.9	47.1
Species/Ponds										
Ducks										
Dabblers										
Mallard	632.2	1194.9	705.4	1006.8	581.6	565.9	536.0	501.4	595.1	350.5
Am. black duck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gadwall	13.7	48.9	13.0	18.3	28.1	44.1	49.9	58.0	48.8	42.6
Am. wigeon	692.2	469.7	832.3	818.5	598.6	426.7	687.4	580.9	652.1	382.2
Am. green-winged teal	615.6	765.6	991.9	882.9	905.7	677.1	396.1	485.0	488.4	575.5
Blue-winged teal	118.4	382.2	250.6	370.5	76.3	29.2	79.9	156.6	205.0	99.1
N. shoveler	108.9	204.8	210.2	239.5	184.6	160.6	160.9	184.1	216.5	101.7
N. pintail	276.3	175.7	218.9	188.2	178.2	146.6	218.3	266.7	226.0	92.3
Subtotal	2457.3	3241.8	3222.4	3524.7	2553.0	2050.1	2128.4	2232.7	2431.9	1643.9
Divers										
Redhead	9.8	30.6	4.9	15.7	20.1	16.0	40.0	10.6	40.8	7.9
Canvasback	14.1	47.1	27.8	61.5	81.1	30.0	74.5	46.8	68.9	27.0
Scaups	2375.4	2315.4	2518.1	2267.3	2339.3	1843.2	1936.5	1658.2	1701.9	1845.7
Ring-necked duck	80.5	64.8	90.9	164.2	127.5	114.8	113.7	106.9	184.2	136.8
Goldeneyes	93.9	149.2	42.2	53.3	76.6	30.8	39.8	44.1	51.0	96.9
Bufflehead	249.1	318.2	386.2	370.5	358.6	272.7	264.3	208.5	247.6	310.7
Ruddy Duck	16.2	92.9	8.6	17.8	44.5	34.7	38.4	43.5	59.6	7.7
Subtotal	2839.0	3018.2	3078.8	2950.2	3047.7	2342.3	2507.1	2118.6	2353.8	2432.7
Miscellaneous										
Oldsquaw	267.7	113.7	270.2	231.1	279.3	43.6	76.3	47.0	64.6	79.1
Eiders	16.2	2.9	0.0	2.0	4.5	0.0	0.0	0.0	0.0	0.0
Scoters	1045.4	909.0	1188.9	748.6	1129.0	432.7	647.4	549.1	633.8	372.6
Mergansers	69.9	31.9	64.2	40.9	67.9	52.2	42.3	119.9	61.8	106.7
Subtotal	1399.3	1057.5	1523.3	1022.6	1480.8	528.5	765.9	716.0	760.2	558.4
Total Ducks	6695.5	7317.5	7824.4	7497.6	7081.4	4920.9	5401.5	5067.3	5545.9	4634.9
Canada Goose	172.8	163.9	326.5	261.6	154.0	120.2	161.4	144.5	174.9	93.0
Am. coot	47.8	32.0	70.1	227.8	131.7	38.4	70.9	51.0	29.9	10.7

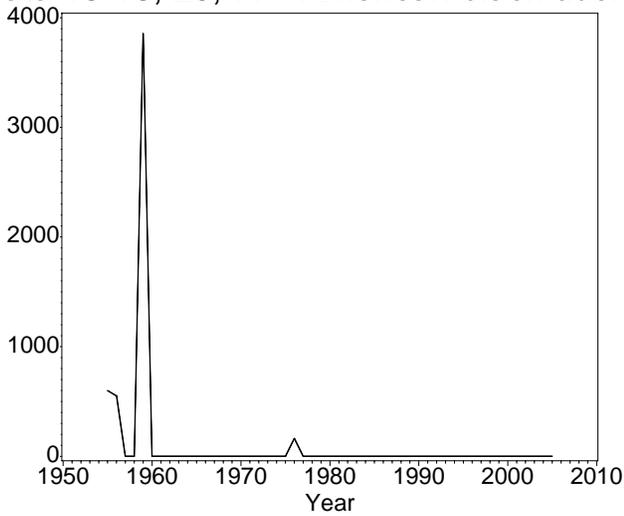
Strata 13-18, 20, 77 Mergansers



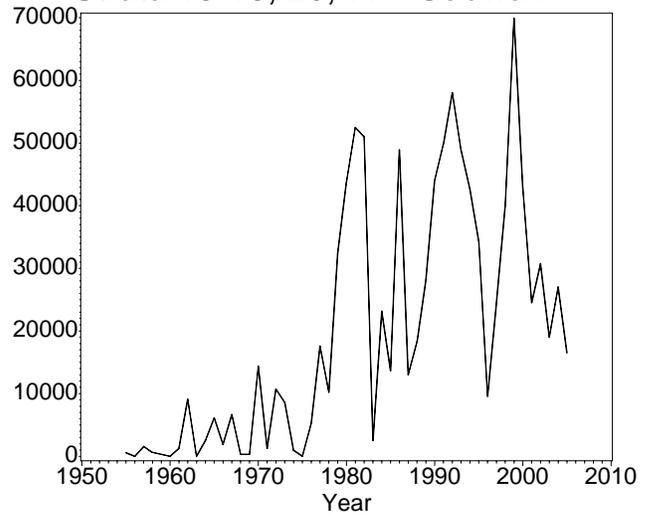
Strata 13-18, 20, 77 Mallard



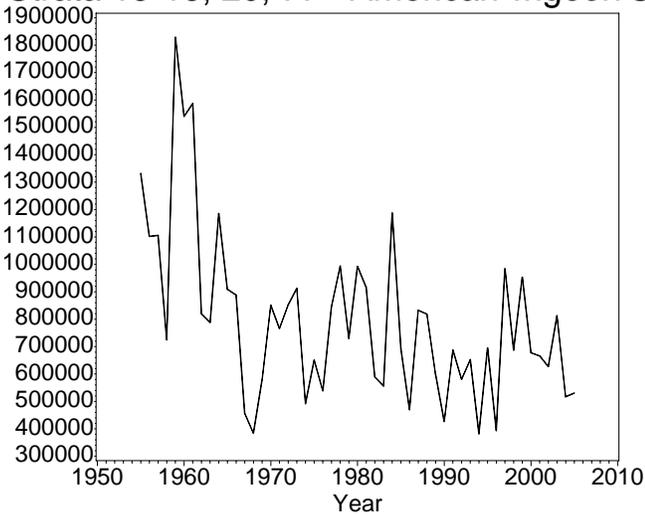
Strata 13-18, 20, 77 American black duck



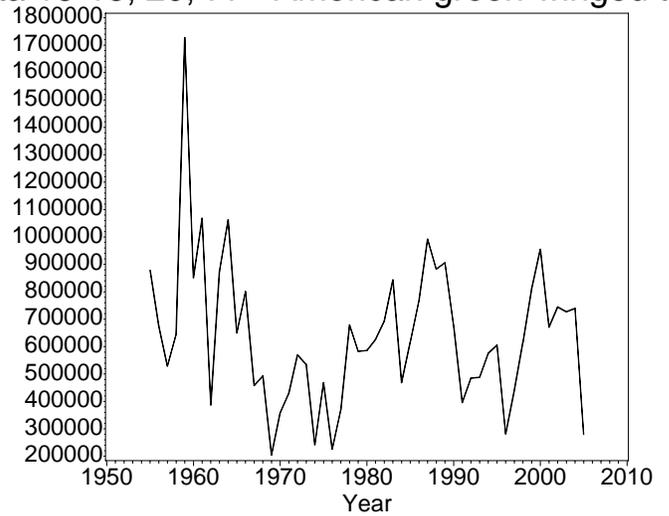
Strata 13-18, 20, 77 Gadwall



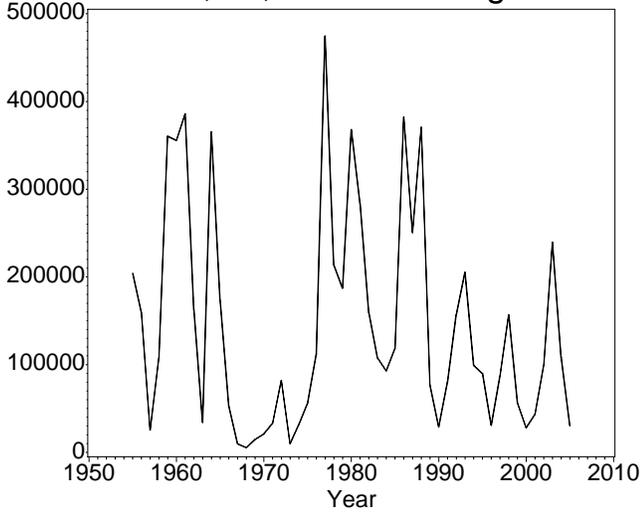
Strata 13-18, 20, 77 American wigeon



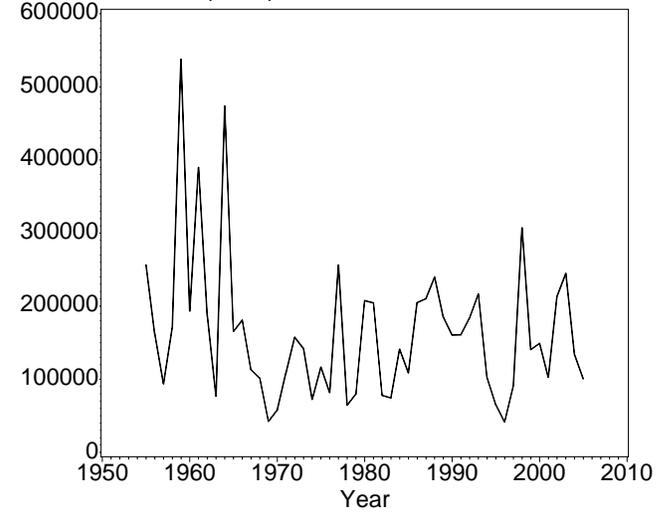
Strata 13-18, 20, 77 American green-winged teal



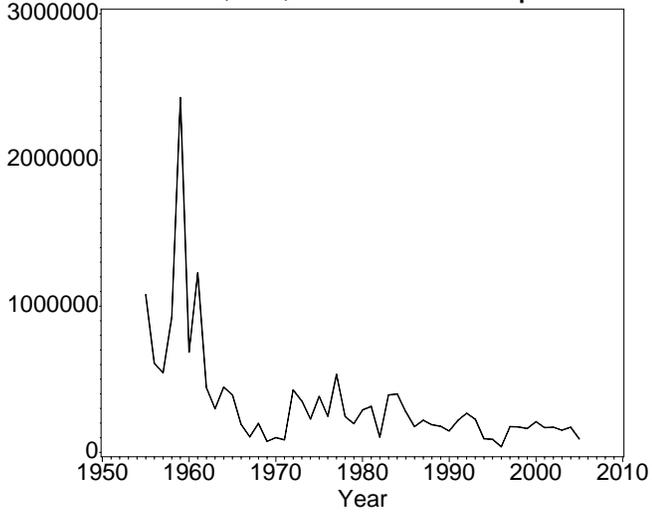
Strata 13-18, 20, 77 Blue-winged teal



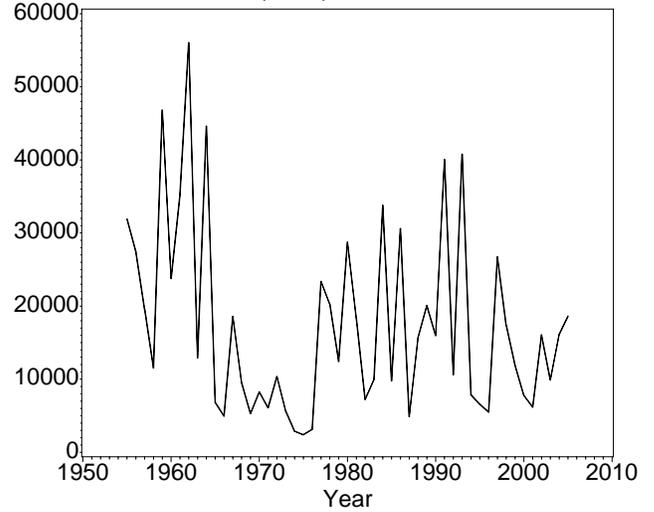
Strata 13-18, 20, 77 Northern shoveler



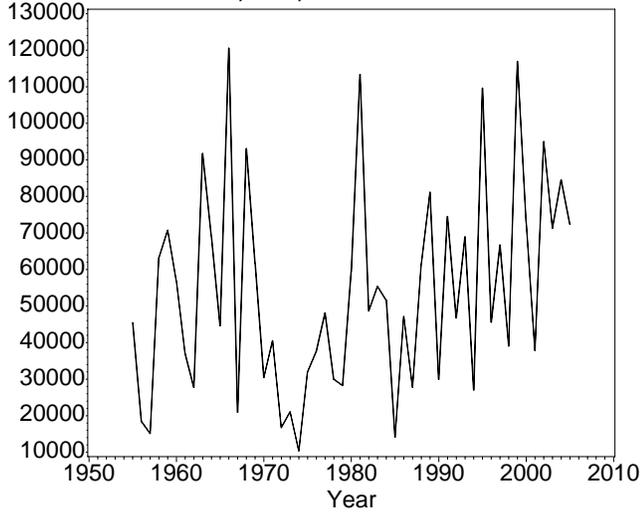
Strata 13-18, 20, 77 Northern pintail



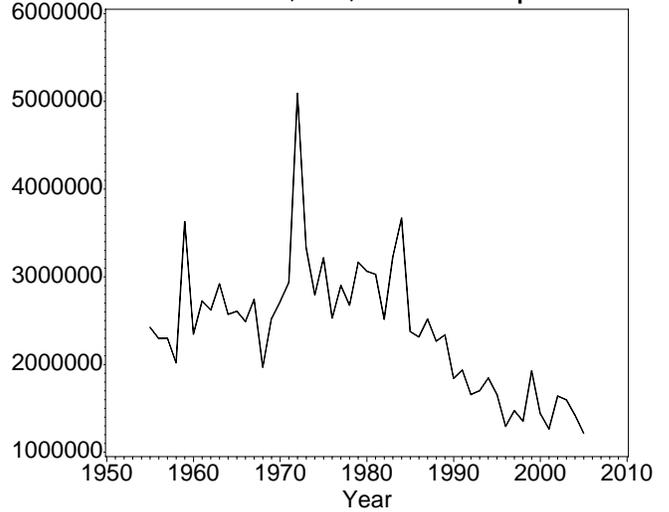
Strata 13-18, 20, 77 Redhead



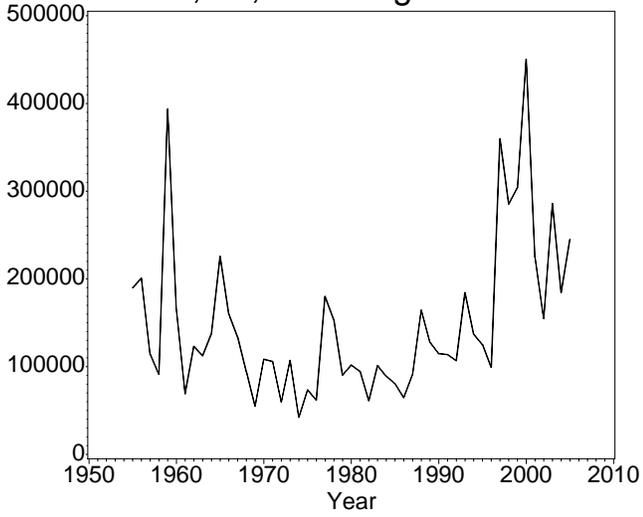
Strata 13-18, 20, 77 Canvasback



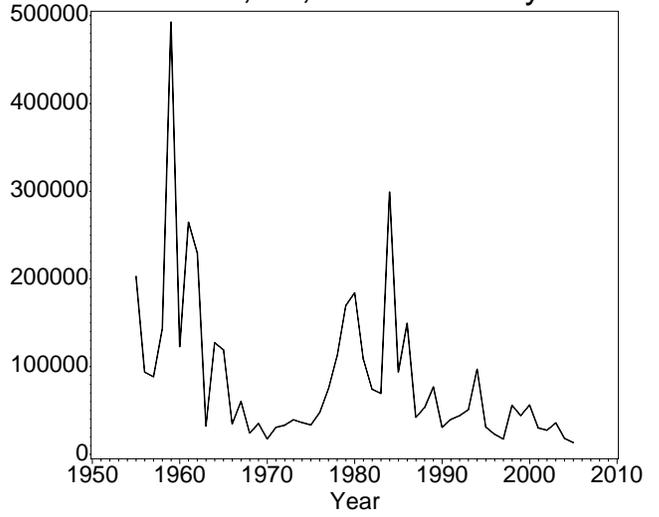
Strata 13-18, 20, 77 Scaups



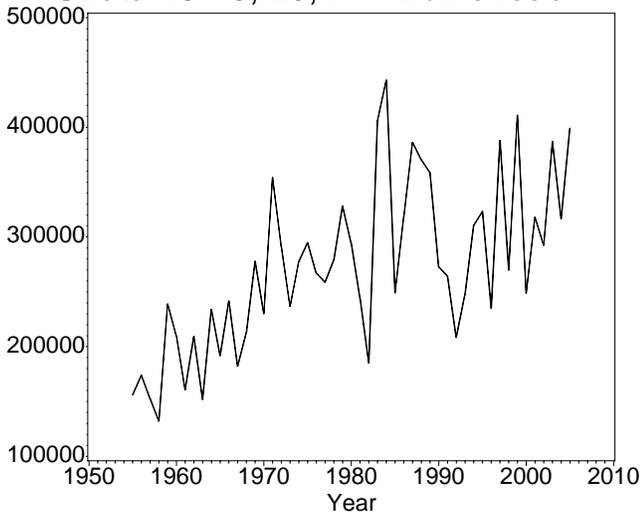
Strata 13-18, 20, 77 Ring-necked duck



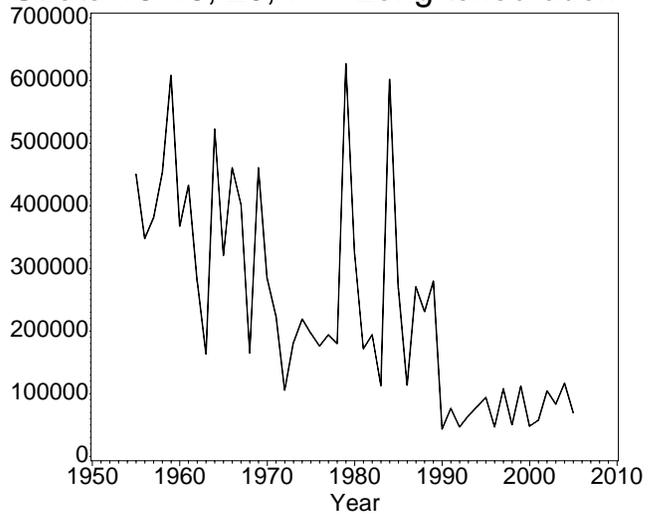
Strata 13-18, 20, 77 Goldeneyes



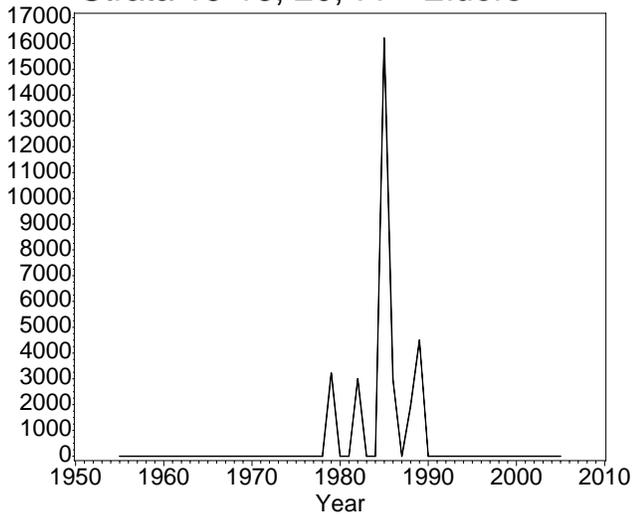
Strata 13-18, 20, 77 Bufflehead



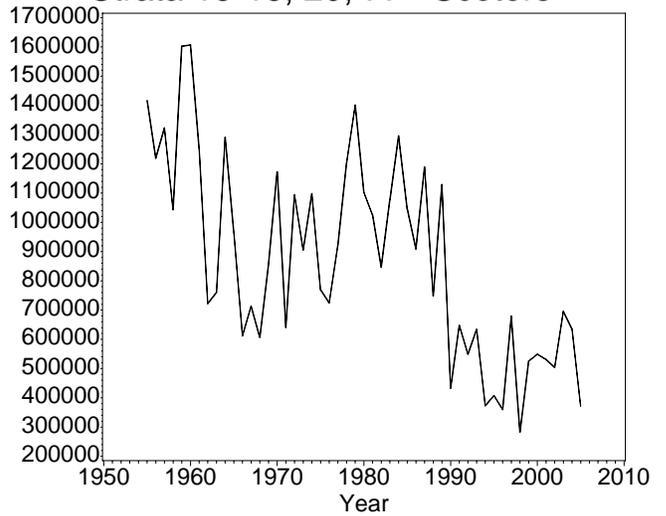
Strata 13-18, 20, 77 Long-tailed duck



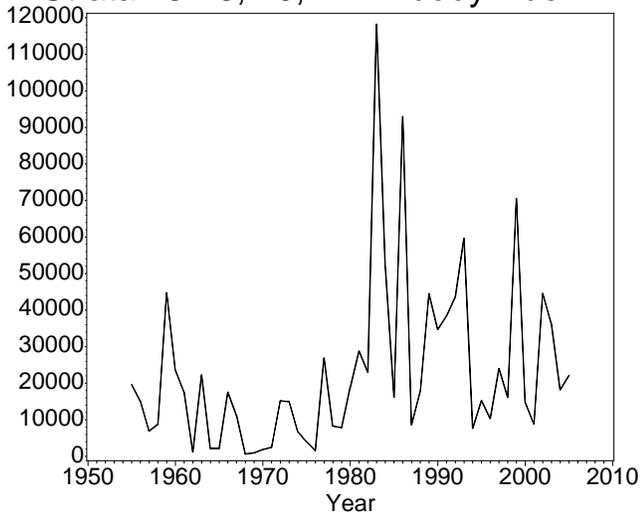
Strata 13-18, 20, 77 Eiders



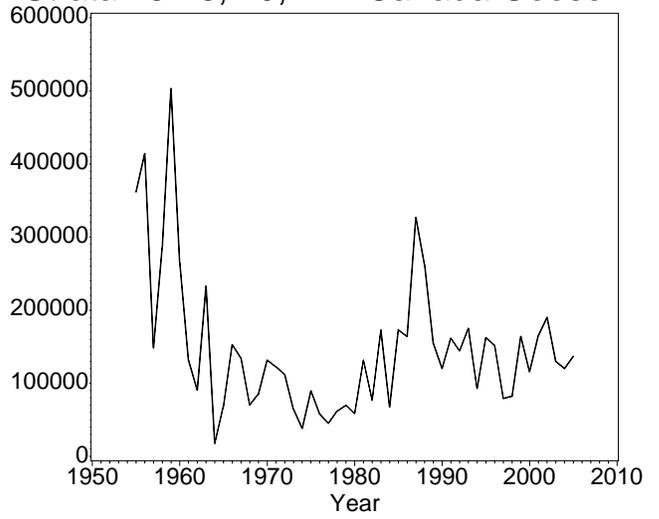
Strata 13-18, 20, 77 Scoters



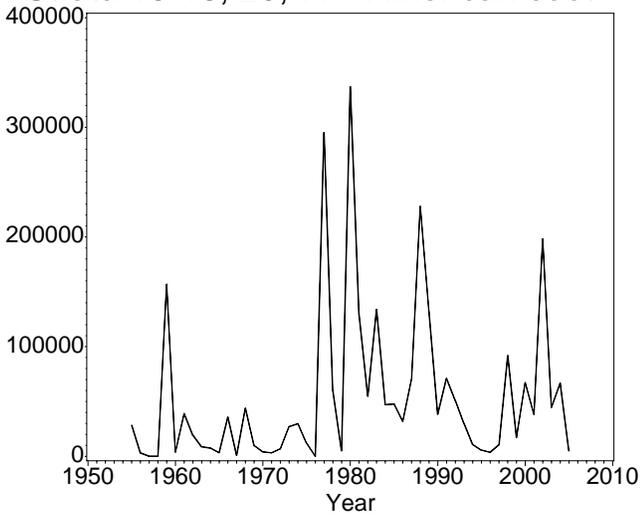
Strata 13-18, 20, 77 Ruddy Duck



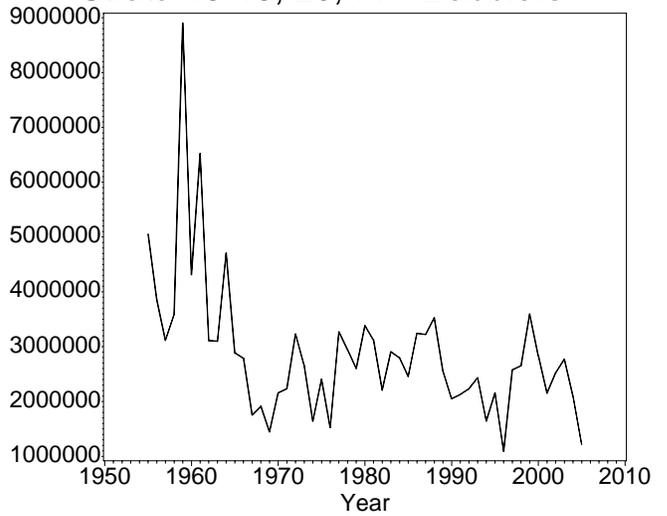
Strata 13-18, 20, 77 Canada Goose



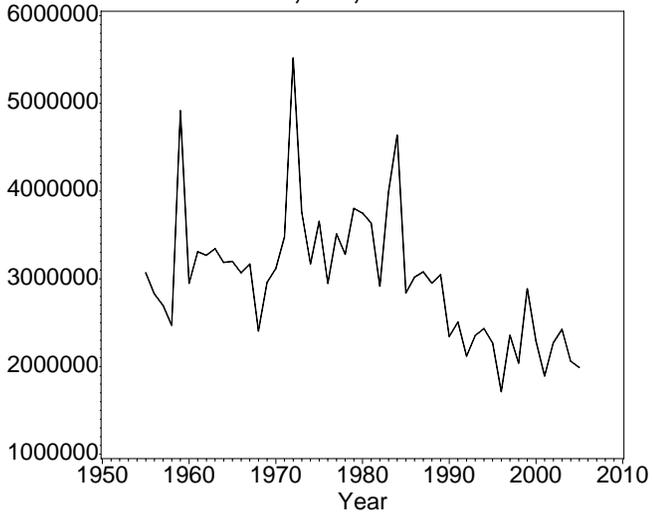
Strata 13-18, 20, 77 American coot



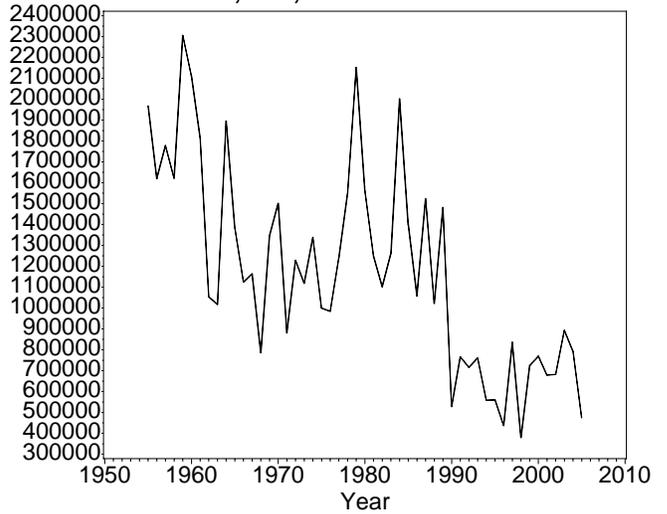
Strata 13-18, 20, 77 Dabblers



Strata 13-18, 20, 77 Divers



Strata 13-18, 20, 77 Miscellaneous



Strata 13-18, 20, 77 Total Ducks

