

1966 C-operative Banding Program in the Maritimes

Richard Fyfe

March 1966

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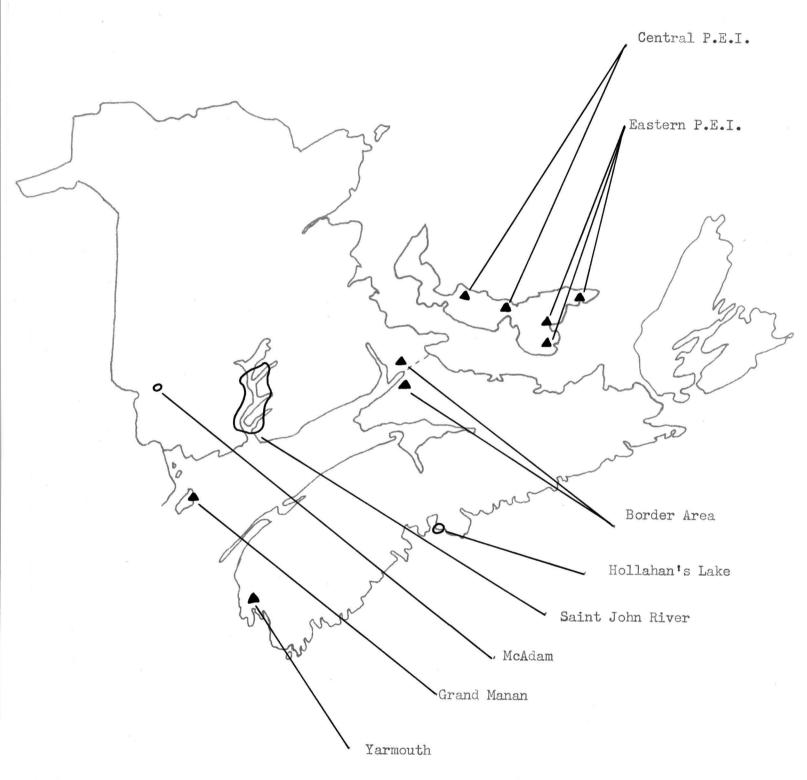
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▲ Stations operated under C.W.S supervision.

Other Maritime Co-operative banding stations.

1966 CO-OPERATIVE BANDING PROGRAM IN THE MARITIMES

Richard Fyfe Canadian Wildlife Service Sackville, N. B.

In 1965 the Atlantic Flyway Council began a co-operative pre-season waterfowl banding program in eastern Canada, with emphasis placed on the banding of black ducks and Canada geese. This program was set up initially as a three-year project to be financed and carried out by the member states, provinces, and federal agencies. The field operation was planned and co-ordinated by the Atlantic Flyway Banding committee.

During the summer and early fall of 1965, the first year of the pre-season co-operative banding program was carried out in eastern Canada. In the south, banding crews worked in Ontario, Quebec, Newfoundland, and the Maritimes; in the north, in Ungava, on the islands in James Bay, and on Southampton Island.

In the Maritimes, banding crews operated bait trapping stations in all three provinces as well as night lighting boats in New Brunswick and Nova Scotia. Specifically, the Co-operative Banding stations and personnel for the Maritimes were as follows:

Table 1. 1965 Maritime Banding Projects

Station	Type	Personnel	Agency
NEW BRUNSWICK			
N.BN.S. Berder Area	Bait Trapping	Stan Teeple Rex Coupland	C.W.S. casual
Saint John River	Bait Trapping	Bruce Parker Merten Smith	U.S.F.& W.S. U.S.F.&.W.S.
	Night Lighting	Gerald Cummings Provincial Game Warden and students from U.N.B. as avail- able	U.S.F.& W.S.
Williamston Lake	Bait Trapping	Owen Seelye Bob Gibbon	U.S.F.&.W.S. Student Co-op Fu
McAdam	Bait Trapping	Walter Sangster	Northeastern Wildlife Stn.
NOVA SCOTIA			
Yarmouth	Bait Trapping	Howard Brown Allen Francis	U.S.F.&.W.S. N.S.Consv. Officer
Hollahan's Lake	Bait Trapping	Fred Payne	N.S.Dept.Lands
		George Archibald	Student Co-op Funds
Nova Scotia	Night Lighting	Fred Payne	N.S.Dept.Lands & Forests
		Lawrence T.Willet	N.S.Dept.Lands & Forests
PRINCE EDWARD ISL	AND		
Upper Hillsbore River Valley (Central P.E.I.)	Bait Trapping	George Arsenault Wayne Neily	C.W.S. Student Co-op. Funds

Generally it can be said that the 1965 program throughout eastern Canada fell far short of the desired quotas and as a result a somewhat larger field operation was planned for 1966. In the Maritimes it was decided that we would attempt trapping at all previous sites except the one at Williamston Lake. In addition, we agreed to add two new banding stations, one on Prince Edward Island and another on Grand Manan.

Table 2. 1966 Maritime Banding Projects

Station	Type	Personnel	Agency
NEW BRUNSWICK		gan gan nan ngan atin pennagan atawatan sa dan sa kanagan atawa sa atawa sa atawa sa atawa sa atawa sa atawa s	
N.BN.S. Border	Bait Trapping	Beb Gibben	Student Co-op.
80 6 046		Mike Mesheau Ray Glasrud	C.W.S.casual C.W.S. summer student
Grand Manan	Bait Trapping	Vernon Bagley	C.W.S.
Saint John River	Wight Lighting	Gerald Cummings Wm. Forward James Wilson	U.S.F.&.W.S. U.S.F.&.W.S. Student Co-op. Funds
Saint John River	Bait Trapping	James VanWeelden Joseph Ware	U.S.F.& W.S. Student Co-op. Funds
McAdam	Bait Trapping	John Sangster	Northeastern Wildl.Statio
		Walter Sangster	Northeastern Wildl.Statio
NOVA SCOTIA			
*Yermouth	Bait Trapping	Stan. Teeple George Inch	C.W.S. Student Co-op. Funds
Hollihans Lake	Bait Trapping	Wayne Neiley	Student Co-op. Funds
Southwest Region	Night Lighting	Fred Payne	N.S.Dept.Lands
		L.T.Willett	N.S.Dept.Lands

Table 2. 1966 Maritime Banding Projects (concluded)

Station	Туре	Personnel	Agency			
PRINCE EDWARD	ISLAND					
*Central	Bait Trapping	Doug. Beach	Student Co-op.			
		Richard Swain	Student Co-op. Funds			
*Eastern	Bait Trapping	Bill Grant	Student Co-op.			
		Richard Anderson	Student Co-op. Funds			

^{*}Areas covered in more detail by this report.

The remainder of this report will deal specifically with only those aspects of the 1966 Maritime banding program with which I was directly involved, and with only those stations which were under my supervision. Specifically, these stations were as follows:

- 1. New Brunswick-Neva Scotia Border Area
- 2. Central Prince Edward Island
- 3. Eastern Prince Edward Island
- 4. Yarmouth County, N.S.
- 5. Grand Manan Island, N.B.

The actual operation of the banding sites was carried out for the most part by the four 2-man student banding crews. (see Table 2.) Mr. Vernon Bagley (Sanctuary caretaker on Grand Manan Island) operated the Grand Manan station by himself, and Mr. Ray Glasrud (C.W.S. student assistant) assisted in the Border Area for approximately three weeks. Each of the crews

was given the responsibility for carrying out the banding operation in one area, with assistance and direction given by Mr. Whitman (C.W.S. Biologist, Sackville) and myself.

Procedure

Potential banding sites were first located through ground and aerial reconnaissance carried out in late July and early August. On August 1st the banding assistants reported to Sackville, and several days were spent in a brief orientation which included waterfowl recognition, aging and sexing techniques, trap construction and trapping methods. The crews were then dispatched to their respective areas.

As indicated, in most areas waterfowl concentrations were first located by either ground or aerial reconnaissance. Once a suitable area was located potential trap sites were chosen. These sites were then heavily baited with a mixture of whole kernel corn and feed wheat, and following a short interval of prebaiting, traps were installed and baiting continued.

The traps employed at most sites were large funnel traps constructed of 1×2 inch weldwire covered by netting, and measuring approximately $6' \times 4' \times 4'$ in height. These traps were most often situated in one to two feet of water, with the funnel facing the shoreline.

Trapping and banding went fairly smoothly, although we experienced great difficulty getting ducks onto bait and considerably more effort was expended than in the previous year for the number of birds trapped.

Experimental trapping techniques were tried in tidal areas on Prince Edward Island and along the eastern New Brunswick coast. At one location we tried baiting the birds onto dry land; at another we attempted to trap birds in an area barely flooded at high tide; and in still another we tried a floating trap. In each instance the experiment was not successful.

Problems encountered

Throughout the Maritimes the major problem was simply that in many areas the ducks would not take the bait and could not be induced into the traps. This problem was encountered in tidal, brackish and freshwater areas and always resulted in no birds being trapped. In two instances the concentrations seemed to be loafing, while in other areas the birds seemed conditioned to other foods. In future years other techniques should be tried or new techniques developed, in order to trap and band some of these birds.

A serious problem which has created difficulties in both years, has been the necessity for students to leave early in September in order to register for classes. This has resulted in trapping either ceasing or being interrupted just when the populations of black ducks at most stations were starting to

build up. If it were practicable to continue banding at all stations until at least the 23rd of September, our trapping success with black ducks should increase markedly.

Predation by man and raccoons was again a problem, and as in 1965, for some unknown reason was largely confined to the sanctuary areas. Although unpleasant, it was not serious enough to disrupt the banding program.

AREA SUMMARIES

Border Area

Trapping and banding success in this area was very different from that of 1965. Blue-winged teal were abundant, whereas black ducks and green-winged teal were much less plentiful than in the previous year. Fortunately, black ducks began to move into the area early in September and our success in banding blacks improved; nevertheless, our totals for this species were only about half of last year's totals.

Table 3. New Brunswick-Nova Scotia Border Area

Species	T o t	a 1 s 1966	
Black duck	575	240	
Mallard	59	5	
Mallard-black hybrid	4	3	
Blue-winged teal	387	447	
Green-winged teal	136	16	
Wood duck	31	28	
Pintail	21	14	
Baldpate	20	3	
 Ring-necked duck	<u>18</u>	9 765	

Note: For a detailed breakdown by station, see Tables 9 and 10 on pages 15 and 16.

Central Prince Edward Island

During the 1966 banding season the central area of Prince Edward Island had a substantial waterfowl population. Black ducks generally frequented tidal flats, whereas teal were found on most fresh and brackish water areas. As in 1965, we were again able to band several hundred teal, but for the most part were unsuccessful in trapping black ducks in the central region.

Table 4. Central Prince Edward Island

desired days are considered to considered	Species	T o t	T e t a l a 1965 1966					
	Black duck	5	9					
	Blue-winged teal	267	427					
	Green-winged teal	109	77					
	Wood duck	8	4					
	Pintail	12	12					
	Baldpate	4	12					
	Ring-necked duck	5	-					
		410	541					

Note: For a more detailed breakdown by area see Tables 9 and 10 on pages 15 and 16.

Eastern Prince Edward Island

Judging from both ground and aerial reconnaissance, eastern Prince Edward Island appeared to have little potential for banding. Black ducks were observed only in small groups, teal were not abundant and those present were widely scattered on several water areas; nevertheless, bait trapping yielded a small number of new birds caught in each trap almost daily. As repeats were at a minimum the results suggest a small yet continuous movement through the area throughout the banding season.

Table 5. Eastern Prince Edward Island

Species	T o t	a 1 s 1966	
Black duck	17	221	
Mallard	-	3	
Blue-winged teal	1	92	
Green-winged teal	6	20	
Wood duck	-	1	
Ring-necked duck	-	5	
	24	342	

^{*} During 1965 bait trapping in Eastern Prince Edward Island was carried on for one week only.

Note: For a detailed breakdown by station see Tables 9 and 10 on pages 15 and 16.

Yarmouth County

In 1965 U.S. Fish and Wildlife Service agent Brown attempted to trap and band waterfowl in the Yarmouth County, N.S., area with very little success. As the area is known to be one of the more important waterfowl areas in Nova Scotia, it was decided that another attempt should be made in 1966. As in 1965, a very determined effort was made to bait trap birds in Yarmouth County, with little success. Although black ducks were present both years, it was not possible to get the birds to take bait.

Table 6. Yarmouth County

Species	7 o t	1.966
	Aug.4-31 Appr.	Aug.14-Sept.7
Black duck	32	1
Blue-winged teal	-	12
Green-winged teal	4	4
	36	17

^{*} Agent Brown's report was not sent through this office. I was advised that he trapped only 36 birds. This figure is not included in our total.

Grand Manan

Following discussions with Mr. Vernon Bagley, caretaker of the C.W.S. sanctuary on Grand Manan, it was decided to include Grand Manan in the 1966 Banding operation.

Although trapping success was not what we had hoped for, we think the problems encountered can be readily overcome. By involving Mr. Bagley in the initial orientation in Sackville and by providing more technical assistance at the beginning of the project, I believe his trapping success can be greatly increased.

Table 7. Grand Manan

Species	Totals 1906	
Black duck	70	
Blue-winged teal	3	
Green-winged teal	43	
	116	

CONCLUSIONS

The banding results and surveys during the 1966 banding program indicate quite radical changes in the distribution and movements of waterfowl in both the New Brunswick-Nova Scotia Border Area, and in Prince Edward Island. We were able to trap and band similar numbers of black ducks and teal as in 1965, but only as a result of a considerable increase in effort.

Table 8. Total ducks banded, 1965 and 1966

Species	Tot 1965	a 1 a 1966	
Black duck	597	541	HAN ALL MAN CONTRACTOR STATEMENT OF STATEMEN
Mallard	59	8	
Mallard-black hybrid	4	3	
Blue-winged teal	655	981	
Green-winged teal	251	160	
Wood duck	39	33	
Pintail	33	26	
Baldpate	24	15	
Ring-necked duck	23	14	
	1685	1781	

Note: For a breakdown of total ducks by province see Table 10a.

For the complete breakdown for all provinces by station
see Tables 9 and 10 on pages 15 and 16.

Experimental trapping was carried out in coastal, tidal waters with no success. Although it is difficult to say whether experimental trapping is warranted, a high percentage of our black ducks frequent tidal areas after the first week of September, and we have had no banded sample from these concentrations. I would, therefore, recommend that in 1967 one crew be given the specific task of finding a suitable technique for trapping these birds.

An aerial reconnaissance of the Magdalens was carried out in late August by Jake Chamberlain (U.S. Fish and Wildlife Service) and myself. As in 1965, we located a concentration of approximately 500 waterfowl in the large tidal lagoon just south of Grindstone Island. It would seem advisable to attempt to band these birds. However, I seriously doubt that we will trap enough birds to justify the cost and effort required. I base this opinion on our continued failure to trap black ducks in tidal areas, plus the fact that we will have to train a new man to do the work.

A determined effort in southwestern Nova Scotia has again yielded very few birds. I believe that we have given pre-season banding a fair trial in this area and I recommend that it now be discontinued. Likewise, our banding operation in central Prince Edward Island (although very successful with teal) has yielded a total of only 14 black ducks in two

years of trapping. Therefore, I also recommend that this station be closed until such time as there is a specific demand for the banding of either species of teal.

During discussion with Dr. Erskine, he has suggested that we may have been missing a good opportunity by not attempting to trap black ducks in Cape Breton. As we have had little or no success with pre-season banding in southwest Nova Scotia, I suggest that we simply shift our effort to Cape Breton for 1967.

RECOMMENDATIONS

1. Continue pre-season banding -

N.B.-N.S. Border Area - 1 crew Eastern P.E.I. - 1 crew Grand Manan - Mr.Bagley

- 2. Discontinue pre-season banding S.W.Nova Scotia
- 3. Where practicable, continue our banding effort until September 23, or even later, in areas where a closed or later hunting season would permit.
- 4. Undertake experimental trapping to determine suitable techniques for catching black ducks on tidal areas.
- 5. Continued assistance to the banding crews through aerial reconnaissance.
- Establish a new banding station in Cape Breton in the Mabou, Lake Ainslie district.

Table 9. Complete surrary of banding 1965.

Species							Aroa							
N.BW.S. Bordon							C	ontre	l P.E	·I.	East.P.E.I.			
		Amhorot Podnt	Jolicano	Sherrogno	Tourisment R.	Dizon's Pond	Derocino Pt. Pand	Phoguld Ford	Hillsborough R.	Bog Pond	Black Pond	Condigon R.	TOTAL	
Black Duck	AHLU	87 226 1 25	20 156 4 2	15	12	24 11	4	1			5 12		127 433 9 28	
Mallard	AIL		1 2			31 24							32 25 2	
Black- Mallard	A		1			1							2	
Tool	A	4 <u>1</u> 66	7	5	3		24 23 2	1	6 29	19	5		109 140 2	
Teal	AILU	42 262 7	35	1 39		,	35 128 2	21	65			1	94 551 9	
Wood Duck	A		27 4				7	1					35 4	
Pintail	A	3	3		2	2	5	3	4				6 27	
Baldpate	l	20			2			1	3				15 9	
l.≪n.Duck	A I L		1 <u>1</u>				1 3						122	
Potels		787	299	62	20	83	235	39	112	24,	23	1	2685	

^{*} Includes November banding at Amharet Point

Table 10. Complete summary of banding 1966.

0	e manifesto	entinosento ministra					A	roas		от од станова и постанова и постанова Постанова и постанова и по			Section Commission Commission		i Commissione in	
Species	riche (ASS)		H.B	a.s.	Bord	or	Boot	. P.E	·I.	Co	ntral	P.E.	I.			pinudaven
		Amberet Point	Jolicano	11 seaganah	Malacal's Pond	Shanogue	Black Pond	Cordigon	Orosk River	Derocks Pt. Pond	Pisquid Pond	Hillsborough R.	Finitor Miver	Plymouth Labo	Yormouth Grond Henen	TOTAL
Black	A I L U	14 122 1	17 75	2			16 115 4	6 22 9	18 30	2 3	2		1	1	40 30	114 408 12 7
Mallard	A	2	2				1		2							3
Black- Mallard	A	1 2														1 2
Tool	A	7 5	1	2			3	1	9	23 34	2	3	8	4	20 23	76 84
Tonl.	AIL	32 312	3		6	18 72	8 48 3	2	20	18 70 5	20 56	13 130	15	12	2	120 853 8
wood duels	A		17	22					1	4						33
Pintail	A	1		12						3	3	6				1 25
Baldpate	AIL	3								1 4 7						777
Rn. Duck	A S		2	4			4									10 3
Totals	100 A CO A CO	503	126	40	6	90	205	49	88	175	73	156	137	17	116	1781

Table 10a. Summary of banding 1965, 1966

Area	Blacks	1965 All ducks	1966 Blacks All ducks		
N.BN.S. Border Area	575	1251	240	765	
Central P.E.I.	5	410	9	541	
Eastern P.E.I.	17	24	221	342	
Yarmouth County	32*	4*	1	17	
Grand Manan	•	, -	70	116	
TOTALS	597	1685	51,1	1781	

^{*} Agent Brown's figures, not included in our total.

Table 11, following, is a photocopy of the cost breakdown for the Maritime Provinces and Newfoundland as prepared for the Banding Committee of the Atlantic Waterfowl Council.

Table 11. Cost break-down of 1966 Co-operative banding program for Eastern Canada and Atlantic Flyway States - continued

	Cost Estimates						a - 1	
Banding Station	A	В	С	D	E	Total Cost	Total Birds	Cost per bird
NEW BRUNSWICK *St. John River (night lighting)	3,300	1,700	640	16	30	5,686	1,709	3.33
St. John River (bait stations)	2,150	450	201	130		2,931	92	31.86
N.B N.S. border marshes	2,000	312	195	291		2,798-	728	3.84
Grand Manan	600			82		682	117	5.83
NOVA SCOTIA Hollahans L. N.S. General Yarmouth	600 1,500 1,100	200 700 100	50 30	72 134 90		872 2,384 1,320	175 655 17	4.98 3.64 77.65
P.E.I. Eastern P.E.I. Mt. Stewart	1,600	100	3000 489	188 148		2,188 2,327	341 542	6.42
NEWFOUNDLAND Birchy Basin Lobstick LLabrador	390 3,207	64 1,725	281 4,825	448 669	150	1,183 10,576	214 43	5.53 245.95
MARITIME TOTAL	18,137	5,351	7,011	2,268	180	32,947	4,633	7.11
TOTAL CANADA	52,954	14,051	24,442	6,932	545	98,962	26,453	3.74

A - Salaries

B - Per diem and travel other than government vehicle

C - Automobile, gas, oil, repairs, boats, motors, rentals, 2-way radio, helicopter, trailer, etc.

D - Pliers, bait, wire, hog rings, etc.

E - Other