



**NINTH
ANNUAL
REPORT**

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**ON ACTIVITIES UNDER THE
MARITIME MARSHLAND
REHABILITATION ACT
FOR THE FISCAL YEAR
ENDED MARCH 31, 1958**

MARITIME MARSHLAND REHABILITATION ADMINISTRATION
CANADA DEPARTMENT OF AGRICULTURE

NINTH ANNUAL REPORT ON ACTIVITIES UNDER THE
MARITIME MARSHLAND REHABILITATION ACT

1957 - 58

INTRODUCTION

The Maritime Marshland Rehabilitation Act was passed by the Parliament of Canada on June 30, 1948. The passing of this Act permitted agreements with the Provinces of Nova Scotia, New Brunswick and Prince Edward Island for the joint reclamation and development of tidal marshland. It also provided for the establishment of an organization to carry out Canada's responsibilities as defined by the Act.

The terms of the agreements define the responsibilities of Canada and the Provinces, and are briefly as follows:-

Canada provides the necessary engineering services for all works and undertakes the construction of protective works required to prevent tidal flooding (dykes, aboiteau and breakwaters). Canada also maintains the protective works until such time as this responsibility may be assumed by the Province concerned.

The Provinces organize and negotiate agreements with groups of marshland owners before work is commenced. They undertake the construction and maintenance of fresh-water drainage ditches, arrange for the necessary rights-of-way and are responsible for the development and promotion of an effective land-use program.

The marshland areas of the Maritime Provinces are, for the most part, adjacent to rivers flowing into the Bay of Fundy, or lie along the banks of the upper reaches of the Bay itself. They are estimated to comprise upwards of 100,000 acres, not all of which will be ultimately reclaimed. These particular lands or soils, high in potential fertility, have contributed greatly to the agricultural production and economy of the areas in which they are located. Some were originally claimed from the sea over 320 years ago and as development progressed they formed essential parts of many Bay of Fundy farms, supplementing adjacent upland holdings. Various factors contributed to the need for national assistance in maintaining protection for these areas. Without assistance the farms concerned could not survive as productive enterprises because the upland fields alone would be inadequate.

ORGANIZATION OF THE MARITIME MARSHLAND REHABILITATION
ADMINISTRATION

The headquarters of the Administration was established at Amherst, Nova Scotia during 1949. Work performed under the terms of the Act is directly controlled by a Director responsible to the Deputy Minister of Agriculture at Ottawa.

Organization of the Administration is as follows:

- (a) Administration and Accounting Branch
- (b) Engineering Branch -
 - (1) Surveys and design
 - (2) Construction
 - (3) Workshop and Equipment

The Engineering Branch is directed by a Chief Engineer and is primarily composed of professional and technical personnel. District Offices are maintained at Moncton, New Brunswick and Windsor, Nova Scotia. Field construction offices, and sub-district offices are established and maintained according to the requirements of the work to be undertaken. A limited amount of construction equipment is maintained and operated to supplement that which is available from construction firms.

ADVISORY COMMITTEE

In accordance with Section 8 of the Maritime Marshland Rehabilitation Act an Advisory Committee was established in 1949. The Act states "No work shall be undertaken in any Province-----unless (a) the work has been recommended by an Advisory Committee-----".

The Committee convened on one occasion during the past year to consider matters placed before it and to make recommendations respecting works to be undertaken to protect marsh areas, or projects, from tidal flooding. To date the Committee has recommended no protective structures be erected on portions of eighteen areas in Nova Scotia and on five areas in New Brunswick. Further it has also recommended no work be undertaken on five complete areas in Nova Scotia and on seven in New Brunswick. All projects or areas which the Provinces have requested be considered have been studied by the Committee and recommendations have been made with respect to all but one in Nova Scotia.

ACTIVITIES AND ACCOMPLISHMENTS TO DATE

No project or area is considered for reclamation unless it has been appropriately recommended by the Province concerned. During the past year the Province of Nova Scotia requested consideration be given to three areas comprising 440 acres and portions of two other areas involving an additional 1800 acres. No requests were received from New Brunswick or Prince Edward Island. Appendix I lists those areas, Active and Non-Active Projects, with acreages, which have been, or being considered as of March 31, 1958.

A summary of acreages is as follows:

Nova Scotia-----	52,616 acres
New Brunswick-----	41,092 acres
Prince Edward Island-----	275 acres
	<u>93,983 acres</u>

At the present time approximately 75,540 acres, some 2,150 acres more than a year ago, are protected. The degree of protection varies from adequate on areas where structures have been completed to poor where the reconstruction of protective works has not been finished or initiated. The areas concerned form portions of approximately 3,300 farms comprising an estimated 500,000 acres.

In addition to providing protection to agricultural land the structures protect numerous sections of highways, roads, railroad grades, some urban property and a variety of utilities.

The general program of works continued during the past year. Dyke and drainage contracts were awarded for structures on six projects. The major portion of the construction activities was confined to these and thirty-seven other projects. Structures on a number of projects were brought to a degree of completion where they now require only normal maintenance. The program included the installation of twenty-five new aboiteaux and the repair or reconstruction of several others; the construction of almost ten miles of dyke and the reconstruction of another four and three-quarter miles; the installation of three and one-half miles of special dyke facing and one mile of stream bank protection; the preparation for seeding of, and the seeding a portion of, over eleven miles of dyke and dyke right-of-way.

Technical assistance was provided to the Provincial Departments of Agriculture in the planning and carrying out of drainage programs on protected areas.

Special agreements with the Province of Nova Scotia and New Brunswick were completed as follows:

- (1) Nova Scotia:- for the purpose of jointly undertaking the construction of a dam across the Annapolis River, Annapolis County. The structure will protect 4,300 acres of marshland, eliminating the need for the reconstruction of miles of dyke and many aboiteaux, and will provide a desirable highway crossing to replace an existing and out-of-date bridge.

The design and construction of the main portion of the structure has been undertaken by the Department and a contract for the major works was awarded late in the current year. Canada and Nova Scotia are sharing the cost in the ratio of 1.75 to 1.0.

- (2) New Brunswick:- for the purpose of jointly undertaking the construction of a dam across the Tantramar River, Westmorland County. The structure will form the final link in works required to protect approximately 17,500 acres of marshland. It will also serve as a river crossing for the Trans-Canada Highway system replacing a timber bridge. The Department is responsible for the design and construction of the main structure and the cost of works, excluding highway sub-grade and surface, is to be borne by Canada and New Brunswick in the ratio of 7.75 to 2.25.

Design has progressed to the point that a contract for the main works can be awarded early in the new fiscal year.

Expenditures totalling \$1,367,831.66 were made during the current year. Details are contained in Appendix II. Some projects on which works of a major nature were carried out are as follows:

Nova Scotia:

Advocate Marsh, Cumberland Co.

-Continuation of protective dyke facing and the raising of dyke because of general shrinkage of fill.

Allan River Marsh, Annapolis Co.

-Construction of dyke, an aboiteau, and some protective dyke facing to complete most of major works required.

Avonport Marsh, Kings Co.

-Construction of dyke and an aboiteau as the first step in providing protective works required.

Annapolis River Dam Marsh, Anna. Co.

-Commencement only of major dam.

Burlington Marsh, Hants Co.

-Construction of dyke and aboiteaux required to protect areas formerly out-to-sea.

Belcher Street Marsh, Kings Co.

-Clean-up of works carried on during the previous year.

Chignecto Marsh, Cumberland Co.

-Construction of dyke to complete protection required.

- Fort Belcher Marsh, Colchester Co. -Stream bank protection and dyke facing.
 - Flemming Marsh, Colchester Co. -Construction of required dyke and aboiteau to protect an area formerly out-to-sea.
 - Fort Lawrence-Amherst Marsh, Cumb. Co. -First stage in the construction of a large aboiteau on the LaPlanche River.
 - Glenholme Marsh, Colchester Co. -Reconstruction of all dyke and aboiteaux required to protect area approved.
 - Greenhill Marsh, Hants Co. -Reconstruction of all dyke and aboiteaux required to protect area approved.
 - Masstown Marsh, Colchester Co. -General clean-up of works initiated during previous years and no protective dyke facing.
 - Martock Marsh, Hants Co. -Some protective dyke facing and major repairs to an aboiteau.
 - Noel Shore Marsh, Hants Co. -Clean-up of works initiated during previous year and completion of aboiteau by cement grouting.
 - Old Barns Marsh, Colchester Co. -Construction of required dyke and aboiteaux to protect an area formerly out-to-sea.
 - Pereaux Marsh, Kings Co. -Raising and strengthening of dyke.
 - Seaman Marsh, Cumberland Co. -Repair of an old aboiteau by grouting corrugated steel pipe in the sluice and by providing a spillway and rock facing.
 - Stewiacke Marsh, Colchester Co. -Construction of dyke and aboiteaux required to protect area approved.
 - Starr's Point Marsh, Kings Co. -Clean-up of works initiated during previous years and so protect dyke facing.
 - Wellington Marsh, Kings Co. -Major repairs to a large aboiteau and clean-up of works previously initiated.
 - Wentworth Marsh, Hants Co. -Construction of dyke and aboiteaux as required to protect the area.
- New Brunswick:
- Beaumont Marsh, Westmorland Co. -Protective dyke facing.
 - Black River Marsh, St. John Co. -A joint effort with the New Brunswick Dept. of Highways to replace a bridge by the installation of an aboiteau and by raising the road grade.

- Dorchester Marsh, Westmorland Co. -Completion and clean-up of works previously initiated.
- Dock Marsh, Westmorland Co. -Major repairs to an aboiteau.
- Gautreau Village Marsh, West. Co. -Protective dyke facing.
- New Horton Marsh, Albert Co. -Completion of works previously initiated and repair of an aboiteau.
- Pre d'en Haut Marsh, West. Co. -Protective dyke facing.
- Shepody River Marsh, Albert Co. -Completion of works previously initiated.

Project No.	Name of Marsh	Location	Province
108	Grand Bay (including Wilcox-Murray)	Kingston Co. (N)	Quebec
107	St. Lawrence Park	Col. Co.	Quebec
106	St. Lawrence	Col. Co.	Quebec
105	St. Lawrence	Col. Co.	Quebec
104	St. Lawrence	Col. Co.	Quebec
103	St. Lawrence	Col. Co.	Quebec
102	St. Lawrence	Col. Co.	Quebec
101	St. Lawrence	Col. Co.	Quebec
100	St. Lawrence	Col. Co.	Quebec
99	St. Lawrence	Col. Co.	Quebec
98	St. Lawrence	Col. Co.	Quebec
97	St. Lawrence	Col. Co.	Quebec
96	St. Lawrence	Col. Co.	Quebec
95	St. Lawrence	Col. Co.	Quebec
94	St. Lawrence	Col. Co.	Quebec
93	St. Lawrence	Col. Co.	Quebec
92	St. Lawrence	Col. Co.	Quebec
91	St. Lawrence	Col. Co.	Quebec
90	St. Lawrence	Col. Co.	Quebec
89	St. Lawrence	Col. Co.	Quebec
88	St. Lawrence	Col. Co.	Quebec
87	St. Lawrence	Col. Co.	Quebec
86	St. Lawrence	Col. Co.	Quebec
85	St. Lawrence	Col. Co.	Quebec
84	St. Lawrence	Col. Co.	Quebec
83	St. Lawrence	Col. Co.	Quebec
82	St. Lawrence	Col. Co.	Quebec
81	St. Lawrence	Col. Co.	Quebec
80	St. Lawrence	Col. Co.	Quebec
79	St. Lawrence	Col. Co.	Quebec
78	St. Lawrence	Col. Co.	Quebec
77	St. Lawrence	Col. Co.	Quebec
76	St. Lawrence	Col. Co.	Quebec
75	St. Lawrence	Col. Co.	Quebec
74	St. Lawrence	Col. Co.	Quebec
73	St. Lawrence	Col. Co.	Quebec
72	St. Lawrence	Col. Co.	Quebec
71	St. Lawrence	Col. Co.	Quebec
70	St. Lawrence	Col. Co.	Quebec
69	St. Lawrence	Col. Co.	Quebec
68	St. Lawrence	Col. Co.	Quebec
67	St. Lawrence	Col. Co.	Quebec
66	St. Lawrence	Col. Co.	Quebec
65	St. Lawrence	Col. Co.	Quebec
64	St. Lawrence	Col. Co.	Quebec
63	St. Lawrence	Col. Co.	Quebec
62	St. Lawrence	Col. Co.	Quebec
61	St. Lawrence	Col. Co.	Quebec
60	St. Lawrence	Col. Co.	Quebec
59	St. Lawrence	Col. Co.	Quebec
58	St. Lawrence	Col. Co.	Quebec
57	St. Lawrence	Col. Co.	Quebec
56	St. Lawrence	Col. Co.	Quebec
55	St. Lawrence	Col. Co.	Quebec
54	St. Lawrence	Col. Co.	Quebec
53	St. Lawrence	Col. Co.	Quebec
52	St. Lawrence	Col. Co.	Quebec
51	St. Lawrence	Col. Co.	Quebec
50	St. Lawrence	Col. Co.	Quebec
49	St. Lawrence	Col. Co.	Quebec
48	St. Lawrence	Col. Co.	Quebec
47	St. Lawrence	Col. Co.	Quebec
46	St. Lawrence	Col. Co.	Quebec
45	St. Lawrence	Col. Co.	Quebec
44	St. Lawrence	Col. Co.	Quebec
43	St. Lawrence	Col. Co.	Quebec
42	St. Lawrence	Col. Co.	Quebec
41	St. Lawrence	Col. Co.	Quebec
40	St. Lawrence	Col. Co.	Quebec
39	St. Lawrence	Col. Co.	Quebec
38	St. Lawrence	Col. Co.	Quebec
37	St. Lawrence	Col. Co.	Quebec
36	St. Lawrence	Col. Co.	Quebec
35	St. Lawrence	Col. Co.	Quebec
34	St. Lawrence	Col. Co.	Quebec
33	St. Lawrence	Col. Co.	Quebec
32	St. Lawrence	Col. Co.	Quebec
31	St. Lawrence	Col. Co.	Quebec
30	St. Lawrence	Col. Co.	Quebec
29	St. Lawrence	Col. Co.	Quebec
28	St. Lawrence	Col. Co.	Quebec
27	St. Lawrence	Col. Co.	Quebec
26	St. Lawrence	Col. Co.	Quebec
25	St. Lawrence	Col. Co.	Quebec
24	St. Lawrence	Col. Co.	Quebec
23	St. Lawrence	Col. Co.	Quebec
22	St. Lawrence	Col. Co.	Quebec
21	St. Lawrence	Col. Co.	Quebec
20	St. Lawrence	Col. Co.	Quebec
19	St. Lawrence	Col. Co.	Quebec
18	St. Lawrence	Col. Co.	Quebec
17	St. Lawrence	Col. Co.	Quebec
16	St. Lawrence	Col. Co.	Quebec
15	St. Lawrence	Col. Co.	Quebec
14	St. Lawrence	Col. Co.	Quebec
13	St. Lawrence	Col. Co.	Quebec
12	St. Lawrence	Col. Co.	Quebec
11	St. Lawrence	Col. Co.	Quebec
10	St. Lawrence	Col. Co.	Quebec
9	St. Lawrence	Col. Co.	Quebec
8	St. Lawrence	Col. Co.	Quebec
7	St. Lawrence	Col. Co.	Quebec
6	St. Lawrence	Col. Co.	Quebec
5	St. Lawrence	Col. Co.	Quebec
4	St. Lawrence	Col. Co.	Quebec
3	St. Lawrence	Col. Co.	Quebec
2	St. Lawrence	Col. Co.	Quebec
1	St. Lawrence	Col. Co.	Quebec

MARITIME MARSHLAND REHABILITATION PROJECTSA. Active Projects - Nova Scotia

Note: Acreages are based on information available as at March 31, 1958.

In most cases the salt marsh acreage indicated lies outside existing dyke and can not be reclaimed;

(x) indicates that a portion of the salt marsh may be reclaimed;

(o) indicates the entire area is salt or unprotected marsh. Protected Marsh includes dyke right-of-way creeks and roads.

Project No.	Name of Marsh	Location	Acreage	
			Protected Marsh	Unprotected Marsh (Salt)
N.S. 2	Windsor Forks	Hants Co.	465	41
N.S. 3	Falmouth Great Dyke	Hants Co.	975	41
N.S. 4	Queen Anne	Anna. Co.	477	70
N.S. 5	Dugau	Anna. Co.	172	27
N.S. 6	Saulnierville	Digby Co.	73	-
N.S. 8	Grand Pre (including Wickwire Marsh)	Kings Co. (x)	2534	709
N.S. 11	Truro Dykeland Park	Col. Co.	878	36
N.S. 12	Victoria Diamond Jubilee	Col. Co.	527	75
N.S. 13	Dentiballis	Anna. Co.	348	62
N.S. 14	Elderkin	Hants Co.	223	53
N.S. 15	Isgonish	Col. Co.	491	4
N.S. 16	Castle Frederick	Hants Co.	142	22
N.S. 17	Falmouth Village	Hants Co.	97	10
N.S. 18	Ryerson	Anna. Co.	86	7
N.S. 20	Advocate	Cumb. Co.	489	89
N.S. 23	Masstown	Col. Co.	986	285
N.S. 24	Noel Shore	Hants Co.	223	396
N.S. 27	Newport Town	Hants Co.	338	68
N.S. 30	Allan River	Anna. Co.	123	246
N.S. 38	St. Croix	Hants Co.	248	16
N.S. 39	Round	Col. Co.	86	27
N.S. 40	Fort Belcher	Col. Co.	181	38

Project No.	Name of Marsh	Location	Acreage	
			Protected Marsh	Unprotected Marsh (Salt)
N. S. 41	Habitant	Kings Co.	677	-
N. S. 42	Amherst Point	Cumb. Co.	2 249	302
N. S. 44	Converse	Cumb. Co.	811	26
N. S. 45	Barronsfield	Cumb. Co.	234	26
N. S. 46	River Hebert	Cumb. Co.	1050	166
N. S. 47	Selmah	Hants Co.	171	12
N. S. 48	Centre Burlington	Hants Co.	143	80
N. S. 49	Scotch Village	Hants Co.	87	3
N. S. 50	Herbert River	Hants Co.	74	5
N. S. 53	John Lusby	Cumb. Co.	818	1205
N. S. 54	Minudie	Cumb. Co.	2528	452
N. S. 55	Seaman (o)	Cumb. Co.	425	20
N. S. 56	Wellington	Kings Co.	3105	23
N. S. 57	New Minas	Kings Co.	304	51
N. S. 61	Kennetcook	Hants Co.	170	22
N. S. 63	Maccan	Cumb. Co.	193	36
N. S. 64	Glenholme	Col. Co.	290	109
N. S. 65	Bishop Beckwith	Kings Co.	604	99
N. S. 66	Flemming	Col. Co.	277	27
N. S. 67	Onslow North River	Col. Co.	496	58
N. S. 68	Tregothic	Hants Co.	576	20
N. S. 69	Martock	Hants Co.	1478	42
N. S. 70	Chegoggin	Yar. Co.	425	-
N. S. 71	Goose Bay	Yar. Co.	230	5
N. S. 72	Horton	Kings Co. (x)	237	229
N. S. 75	Armstrong	Hants Co.	53	3
N. S. 76	Farnham Dyke	Kings Co.	192	26
N. S. 77	Princeport	Col. Co.	43	9
N. S. 78	Athol	Cumb. Co.	99	49
N. S. 79	Chambers	Hants Co.	61	1
N. S. 80	Starr's Point	Kings Co.	303	281

Project No.	Name of Marsh	Location	Acreage	
			Protected Marsh	Unprotected Marsh (Sa
N.S. 81	Lower Truro	Col. Co.	399	25
N.S. 82	Kentville	Kings Co.	71	7
N.S. 85	Mantua Poplar Grove	Hants Co.	361	51
N.S. 86	Central Onslow	Col. Co.	291	14
N.S. 87	Chignecto	Cumb. Co.	512	8
N.S. 88	Burlington	Hants Co.	106	34
N.S. 90	Old Barns	Col. Co.	160	18
N.S. 91	Belcher Street	Kings Co.	346	75
N.S. 92	Avonport	Kings Co. (x)	221	51
N.S. 93	Greenhill	Hants Co.	53	36
N.S. 95	Fort Lawrence - Amherst	Cumb. Co.	3,400	
N.S. 97	Highland Village	Col. Co. (o)		246
N.S. 98	Stewiacke	Col. Co.	134	44
N.S. 100	Wentworth	Hants Co.	144	13
N.S. 101	Pereaux	Kings Co.	109	32
N.S. 102	Chebogue River	Yar. Co. (o)		1600
N.S. 103	Annapolis River Dam	Anna. Co.	2583	1717
N.S. 104	Sunny Slope	Hants Co.	10	8
N.S. 105	Belmont	Hants Co. (o)		147
N.S. 106	Fort Ellis	Col. Co.	62	158
N.S. 108	Argyle	Yar. Co. (o)		47
N.S. 109	Nappan River Dam	Cumb. Co. (x)	996	130
N.S. 111	Burntcoat	Hants Co. (x)		37
N.S. 112	Rhynds Creek	Hants Co. (o)		256
N.S. 113	Southside	Col. Co. (o)		148
		Total...	39,504	10,777

MARITIME MARSHLAND REHABILITATION PROJECTS

B. Non-Active Projects - Nova Scotia

Note: These projects are those which:

- (a) have been incorporated into larger projects.
- (b) were established for purposes of investigation.
- (c) were established for purposes of investigation at the request of the Provinces.
- (d) were incorporated by the Provinces who have since requested they be dropped.
- (e) the Advisory Committee have recommended be dropped.

Acreeges are indicated only for those projects included in (c) or (d) or (e) above.

Project No.	Name of Marsh	Location	Acreege
N. S. 1	Comeau	Anna. Co. (a)	
N. S. 7	Annapolis River Survey	Anna. Co. (b)	
N. S. 9	Woodworth	Anna. Co. (a)	
N. S. 10	Upper Belleisle	Anna. Co. (a)	
N. S. 19	Bridgetown	Anna. Co. (d) & (a)	
N. S. 21	Upper Nappan	Cumb. Co. (a)	
N. S. 22	Gaspereau River Survey	Kings Co. (b)	
N. S. 25	Maitland	Hants Co. (d)	34
N. S. 26	Stirling Brook	Hants Co. (e)	99
N. S. 28	Scott's Bay	Kings Co. (e)	71
N. S. 29	Pre Rond	Anna. Co. (a)	
N. S. 31	Fox Bow	Anna. Co. (a)	
N. S. 32	Mount Anne	Anna. Co. (a)	
N. S. 33	Windermere	Anna. Co. (a)	
N. S. 34	Moschelle	Anna. Co. (a)	
N. S. 35	Ricketson	Anna. Co. (a)	
N. S. 36	Rossette	Anna. Co. (a)	
N. S. 37	Walker	Anna. Co. (a)	
N. S. 43	Annapolis Royal Town	Anna. Co. (a)	
N. S. 51	Morse	Anna. Co. (a)	

Project No.	Name of Marsh	Location		Acreege
N. S. 52	Rossway	Digby Co.	(c)	718
N. S. 58	Granville Centre	Anna. Co.	(a)	
N. S. 59	Brown Salt Pond	Yar. Co.	(d)	277
N. S. 60	Morse Bishop	Anna. Co.	(a)	
N. S. 62	McKay	Cumb. Co.	(a)	
N. S. 73	Mill	Anna. Co.	(a)	
N. S. 74	Tupperville	Anna. Co.	(a)	
N. S. 83	Messenger	Anna. Co.	(a)	
N. S. 84	Bartlett's Beach	Digby Co.	(d)	284
N. S. 89	Cogmagun	Hants Co.	(e)	637
N. S. 94	Mosherville	Hants Co.	(d)	102
N. S. 96	Shipley	Cumb. Co.	(a)	
N. S. 99	Upper Burlington	Hants Co.	(e)	66
N. S. 107	Hicks	Cumb. Co.	(e)	47
N. S. 110	Ripley	Cumb. Co.	(a)	

Total. 2,335

MARITIME MARSHLAND REHABILITATION PROJECTS

A. Active Projects - New Brunswick

Note: Acreages are based on information available as at March 31, 1958.

In most cases the salt marsh acreage indicated lies outside existing dyke and can not be reclaimed;

(x) indicates a portion of which may be reclaimed;

(o) indicates the entire area is salt or unprotected Marsh. Protected Marsh includes dyke right-of-way creeks and roads.

Project No.	Name of Marsh	Location	Acreage	
			Protected Marsh	Unprotected Marsh (Salt)
N. B. 4	Allison	West Co.	197	15
N. B. 5	Westcock	West Co.	800	225
N. B. 6	Taylor Village	West Co.	444	105
N. B. 8	Coyle Landry	West Co.	305	37
N. B. 11	Belliveau Village	West Co.	185	15
N. B. 12	Pre d'en Haut	West Co.	113	28
N. B. 13	Dorchester	West Co.	1716	61
N. B. 14	Lower Coverdale	Albert Co.	149	15
N. B. 15	Middle Coverdale	Albert Co.	31	21
N. B. 16	Dixon Island	West Co.	330	70
N. B. 17	New Horton	Albert Co.	789	107
N. B. 18	Fox Creek	West Co.	96	13
N. B. 19	Beaumont	West Co.	207	33
N. B. 20	Gautreau Village	West Co.	209	21
N. B. 21	Memramcook West	West Co.	1019	95
N. B. 24	Aulac	West Co.	1957	534
N. B. 25	Dock	West Co.	52	4
N. B. 26	Dover	West Co.	43	9
N. B. 27	College Bridge	West Co.	931	142
N. B. 28	Upper Coverdale	Albert Co.	45	6
N. B. 30	Calkins	Albert Co.	227	23
N. B. 33	West Coverdale	Albert Co.	260	42
N. B. 36	Boundary Creek	West Co.	51	1

Project No.	Name of Marsh	Location	Acreage	
			Protected Marsh	Unprotected Marsh (Salt)
N. B. 37	Sackville	West Co.	473	590
N. B. 40	Woodpoint	West Co.	43	194
N. B. 41	Turtle Creek	Albert Co.	103	115
N. B. 43	Creek's	Albert Co.	99	-
N. B. 45	Chartersville	West Co.	349	31
N. B. 46	Wilson	West Co.	157	23
N. B. 47	Hillsboro	Albert Co.	955	82
N. B. 50	Black River	St. John Co.	41	-
N. B. 51	Shepody River Dam	Albert Co.	5552	323
N. B. 54	Jones Creek	West Co.	45	21
N. B. 55	Missaguash	West Co.	231	-
N. B. 56	Tantramar River Dam	West Co. (x)	17,557 ^x	443
			^x includes 5497 of Class 4 & Peat	
		Total...	35,761	3,444

B. Non-Active Projects - New Brunswick

Note: These projects are those which:

- (a) have been incorporated into larger projects.
- (b) were established for purposes of investigations.
- (c) were established for purposes of investigation at the request of the Provinces.
- (d) were incorporated by the Provinces who have since requested they be dropped.
- (e) the Advisory Committee have recommended be dropped.

Acreages are indicated only for those projects included in (c) or (d) or (e) above.

Project No.	Name of Marsh	Location	Acreage
N. B. 1	Upper Dyke	Albert Co.	(a)
N. B. 2	Germantown	Albert Co.	(a)
N. B. 3	Tantramar West	West Co.	(a)
N. B. 7	Hopewell Hill	Albert Co.	(a)

Project No.	Name of Marsh	Location		Acreage
N. B. 9	Harvey	Albert Co.	(a)	
N. B. 10	Shepody River Survey	Albert Co.	(b)	
N. B. 22	Tantramar River Survey	West Co.	(b)	
N. B. 23	Memramcook River Survey	West Co.	(b)	
N. B. 29	Log Lake	West Co.	(a)	
N. B. 31	Baie Verte	West Co.	(e)	488
N. B. 32	Salem	Albert Co.	(d)	65
N. B. 34	Coverdale	Albert Co.	(e)	59
N. B. 35	Waterside	Albert Co.	(e)	684
N. B. 38	Rockland	West Co.	(e)	234
N. B. 39	Chance Harbour	St. John Co.	(c)	25
N. B. 42	Jones	West Co.	(d)	135
N. B. 44	Coles Island	West Co.	(a)	
N. B. 48	McAlmon	Albert Co.	(e)	67
N. B. 49	La Coupe	West Co.	(a)	
N. B. 52	Little River	St. John Co.	(e)	130
N. B. 53	Great Marsh	West Co.	(a)	
Total..				1,887

A. Active Projects - Prince Edward Island Protected Marsh

P. E. I. 1	Johnston's River	Queen's Co.	275
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TOTALS BY PROVINCES

<u>Active Projects</u>		<u>Non-Active Projects</u>		
<u>Protected</u>	<u>Unprotected</u>			<u>Total</u>
N. S. 39,504	10,777	2,335		52,616
N. B. 35,761	3,444	1,887		41,092
P. E. I. 275	-	-		275
<u>75,540</u>	<u>14,221</u>	<u>4,222</u>		<u>93,983</u>

APPENDIX II. EXPENDITURES UNDER THE MARITIME MARSHLAND REHABILITATION ACT

		<u>1949-1957</u>	<u>1957-1958</u>
Administration		362,316.77	39,784.80
Surveys and Engineering		1,289,821.30	129,489.34
Workshop and Construction Supervision		1,865,761.04	346,964.99
Construction and Maintenance of Projects, and Special Surveys:			
Advocate Marsh	Nova Scotia	115,758.70	8,438.46
Allan River Marsh	" "	12,412.85	37,279.48
Amherst Point Marsh	" "	138,110.44	3,338.52
Annapolis Royal Town Marsh	" "	27,497.06	-
Annapolis River Survey	" "	27,049.60	-
Annapolis River Dam	" "	-	22,282.40 ⁽¹⁾
Armstrong Marsh	" "	13,659.62	112.20
Argyle Marsh	" "	-	-
Athol Marsh	" "	17,213.64	1,186.32
Avonport Marsh	" "	5,680.70	28,150.54
Barronsfield Marsh	" "	69,443.48	2,561.02
Bartlett's Beach Marsh	" "	2,644.17	-
Belmont Marsh	" "	-	-
Belcher Street Marsh	" "	103,350.15	6,355.82
Bishop Beckwith Marsh	" "	161,491.46	4,937.94
Burlington Marsh	" "	341.65	39,586.65
Burntcoat Marsh	" "	-	-
Castle Frederick Marsh	" "	44,541.39	1,063.93
Central Onslow Marsh	" "	36,348.27	3,123.05
Centre Burlington Marsh	" "	32,085.20	455.41
Chambers Marsh	" "	15,208.43	64.82
Chegoggin Marsh	" "	30,626.03	40.50
Chignecto Marsh	" "	37,275.35	6,665.13
Comeau Marsh	" "	37,965.40	50.62
Converse Marsh	" "	126,915.22	4,780.40
Dentiballis Marsh	" "	92,100.79	6,074.82
Dugau Marsh	" "	24,368.47	280.45
Elderkin Marsh	" "	59,453.21	5,795.63
Falmouth Great Dyke Marsh	" "	111,569.30	4,640.25
Falmouth Village Marsh	" "	32,739.32	5,919.86
Farnham Dyke Marsh	" "	32,678.04	98.95
Flemming Marsh	" "	-	35,757.43
Fort Belcher Marsh	" "	40,793.17	11,479.13
Fort Ellis Marsh	" "	-	-
Fox Bow Marsh	" "	16,829.08	2,593.41
Fort Lawrence-Amherst Marsh	" "	735.55	60,360.05
Glenholme Marsh	" "	2,430.72	50,641.49
Grand Pre Marsh	" "	163,241.79	10,430.23
Goose Bay Marsh	" "	27,985.33	83.67
Granville Centre Marsh	" "	24,524.50	926.42
Greenhill Marsh	" "	911.91	23,594.88
Habitant Marsh	" "	12,855.17	4,044.93
Herbert River Marsh	" "	22,087.08	1,454.71
Horton Marsh	" "	2,370.68	4,941.54

(1) Total expenditures were \$35,013.20. In accordance with the agreement with the Province of Nova Scotia the Nova Scotia Department of Highways refunded \$12,730.80.

Construction and Maintenance of Projects, and Special Surveys: (Cont'd).

		<u>1949-1957</u>	<u>1957-1958</u>
Hicks Marsh	Nova Scotia	-	-
Isgonish Marsh	" "	171,667.52 ⁽²⁾	2640.41
John Lusby Marsh	" "	112,527.60	4052.52
Kennetcook Marsh	" "	45,683.31	830.85
Kentville Marsh	" "	14,232.69	1078.92
Lower Truro Marsh	" "	49,815.99	3054.50
Maccan Marsh	" "	30,016.18	7588.38
Mantua Poplar Grove Marsh	" "	71,627.62	1836.03
Martock Marsh	" "	133,633.32	19,844.97
McKay Marsh	" "	17,003.62	159.28
Masstown Marsh	" "	147,564.86	21,922.97
Messenger Marsh	" "	2,236.11	434.00
Mill Marsh	" "	5,997.15	200.00
Minudie Marsh	" "	124,776.69	3,372.36
Morse Marsh	" "	2,623.67	460.80
Morse Bishop Marsh	" "	1,129.09	174.34
Moschelle Marsh	" "	28,643.68	76.00
Mount Anne Marsh	" "	58,255.05	-
Nappan River Marsh	" "	-	-
New Minas Marsh	" "	91,975.53	772.52
Newport Town Marsh	" "	54,547.66	7,553.98
Noel Shore Marsh	" "	108,271.50	13,311.98
Old Barns Marsh	" "	-	29,762.29
Onslow North River Marsh	" "	59,645.11	1,790.21
Pre Rond Marsh	" "	7,409.36	419.90
Princeport Marsh	" "	9,924.03	-
Pereaux Marsh	" "	2,450.25	13,985.62
Queen Anne Marsh	" "	162,774.94	3,341.66
Ripley Marsh	" "	-	-
Ricketson Marsh	" "	1,026.70	154.10
River Hebert Marsh	" "	224,061.91	5,801.96
Rosette Marsh	" "	1,638.75	28.04
Round Marsh	" "	31,948.48	2,617.59
Ryerson Marsh	" "	36,618.65	8,939.10
Rhynds Creek Marsh	" "	-	-
Saulnierville Marsh	" "	6,917.39	194.59
Scotch Village Marsh	" "	13,554.86	3,263.99
Seaman Marsh	" "	25,797.13	17,152.37
Selmah Marsh	" "	25,766.44	21.25
Shipleigh Marsh	" "	1,280.30	315.30
Southside Marsh	" "	-	-
St. Croix Marsh	" "	78,533.85	7,382.56
Starr's Point Marsh	" "	88,414.92	11,986.25
Stewiacke Marsh	" "	-	25,065.88
Sunny Slope Marsh	" "	-	1,276.09
Tregothic Marsh	" "	46,366.02	496.84
Truro Dykeland Park Marsh	" "	100,741.67	5,457.09
Tupperville Marsh	" "	12,965.60	3,645.25
Upper Belleisle Marsh	" "	31,519.83	50.00
Upper Nappan Marsh	" "	52,422.48	812.45
Victoria Diamond Jubilee Marsh	" "	77,886.79	1,641.11
Walker Marsh	" "	2,952.11	687.20
Wellington Marsh	" "	52,453.35	37,808.86
Windermere Marsh	" "	48,604.50	236.98
Windsor Forks Marsh	" "	61,819.78	3,146.20
Woodworth Marsh	" "	21,473.09	514.35
Wentworth Marsh	" "	508.75	16,390.57
Sub-Total for Nova Scotia Projects		<u>4,283,002.80</u>	<u>693,341.52</u>

(2) This was a joint project with the Province of Nova Scotia. Of the above amount \$56,821.10 was refunded by the Province and in addition to its expenditures of \$46,745.42 were made, which amount was also refunded. Total Provincial

Construction and Maintenance of Projects, and Special Surveys: (Cont'd).

		<u>1949-1957</u>	<u>1957-1958</u>
Allison Marsh	New Brunswick	18,759.24	4,998.36
Aulac Marsh	" "	240,805.23	981.24
Baie Verte Marsh	" "	923.03	-
Beaumont Marsh	" "	50,309.54	13,108.08
Belliveau Marsh	" "	21,756.25	128.10
Black River Marsh	" "	-	7,481.65
Boundary Creek Marsh	" "	4,268.10	-
Calkins Marsh	" "	98,821.18	4,323.42
Chartersville Marsh	" "	49,096.25	704.80
Coles Island Marsh	" "	46,142.68	-
College Bridge	" "	76,960.10	2,026.56
Coverdale Marsh	" "	19.31	-
Coyle Landry Marsh	" "	41,055.55	6,011.66
Creeks Marsh	" "	9,918.78	105.18
Dixon Island Marsh	" "	61,976.49	3,512.42
Dock Marsh	" "	7,164.85	6,663.64
Dorchester Marsh	" "	255,497.93	21,484.14
Dover Marsh	" "	12,613.65	113.38
Fox Creek Marsh	" "	30,768.67	1,315.46
Great Marsh	" "	5,571.34	190.05
Gautreau Village Marsh	" "	71,134.79	4,014.79
Germantown Marsh	" "	11,909.61	-
Hillsboro Marsh	" "	134,182.08	1,972.56
Hopewell Hill Marsh	" "	72,406.13	-
Jones Marsh	" "	11,619.66	719.50
Log Lake Marsh	" "	41,078.49	3,324.97
Lower Coverdale Marsh	" "	32,127.99	6,939.71
Memramcook West Marsh	" "	167,799.16	6,086.51
Middle Coverdale Marsh	" "	14,713.24	147.20
Missaguash Marsh	" "	10,821.00	692.58
New Horton Marsh	" "	80,587.44	11,390.19
Pre d'en Haut Marsh	" "	31,099.05	6,954.32
Sackville Marsh	" "	56,594.93	258.56
Shepody River Dam	" "	1,510,396.38	21,495.57
Shepody River Survey	" "	26,334.47	-
Tantramar River Survey	" "	23,201.48	470.13
Tantramar West Marsh	" "	30,150.68	2,651.61
Taylor Village Marsh	" "	79,548.99	2,364.19
Turtle Creek Marsh	" "	22,650.78	1,755.74
Upper Coverdale Marsh	" "	16,809.82	64.80
Upper Dyke Marsh	" "	11,149.33	-
Westcock Marsh	" "	144,512.41	6,216.71
West Coverdale Marsh	" "	53,692.34	6,997.48
Wilson Marsh	" "	27,720.71	399.80
Woodpoint Marsh	" "	676.01	135.85
Sub-Total for New Brunswick Projects		<u>\$3,715,345.14</u>	<u>\$158,200.91</u>
Johnson River Marsh	P. E. I.	<u>19,712.52</u>	-
Total expenditure for Projects apart from Administration, engineering and supervision		<u>8,018,060.46</u>	<u>851,542.43</u>
Total Expenditure		<u>\$11,535,960.57</u>	<u>1,367,831.66</u>

(2) This was a joint project with the Province of Nova Scotia. Of the above amount \$56,821.10 was refunded by the Province and in addition to it expenditures of \$46,745.42 were made, which amount was also refunded. Total Provincial

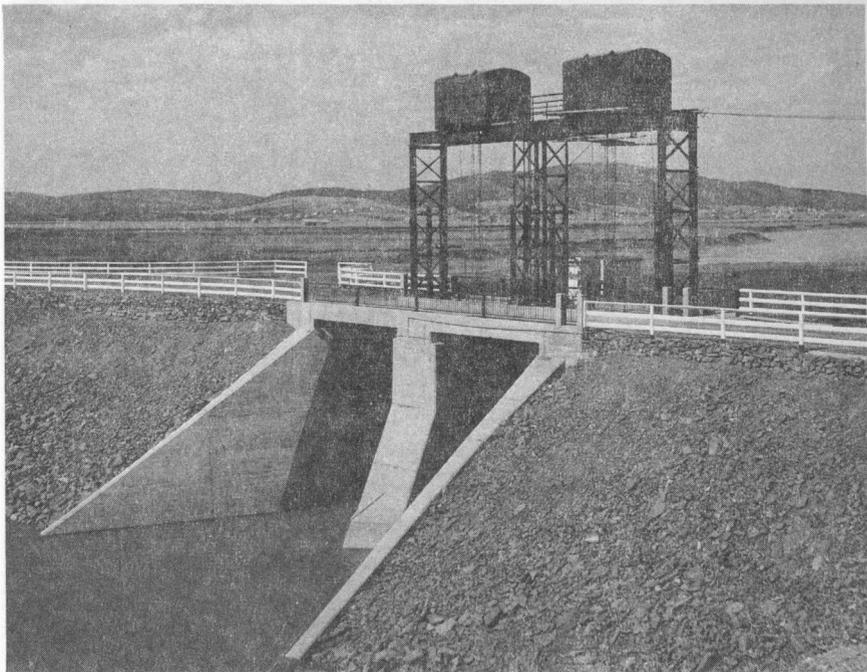


Fig. 1 - Shepody River Dam Project, Albert Co. , N. B. -
Looking from the south bank of the excavated channel at
the upstream side of the completed sluice structure.
The main dam extends to the left of the photo. The old
river channel can be seen in back of the gate hoist
towers. (Photo N. B. 51//572) ✕



Fig. 2 - The inlet end of an aboiteau under construction
on Old Barns Marsh, Col. Co. , N. S. The sluice is a
two barrel 4' x 4' with steel, cable hung gates. The
machine is spreading fill on the aboiteau. (Photo N. S.
90//2)



Fig. 3 - Inside the barrel of Abt. # 1, Wellington Marsh, Kings Co., N.S., showing the division wall timbers badly broken up. This old sluice had previously been temporarily repaired by the M. M. R. A. until such time as permanent repairs could be undertaken. (Photo 56-017)

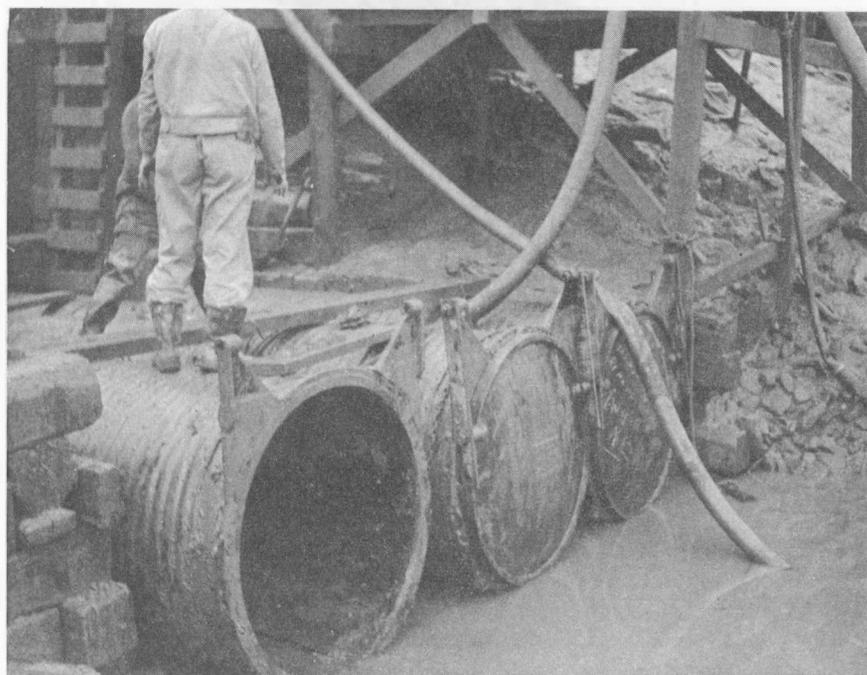


Fig. 4 - The gate ends of the Armco pipes which were threaded through the barrels of the Wellington sluice shown in the above photo. The pipes extend 36 ft. beyond the old end of the sluice to allow for a stable slope on the rock with which the aboiteau is to be faced. (Photo N.S. 56//55)

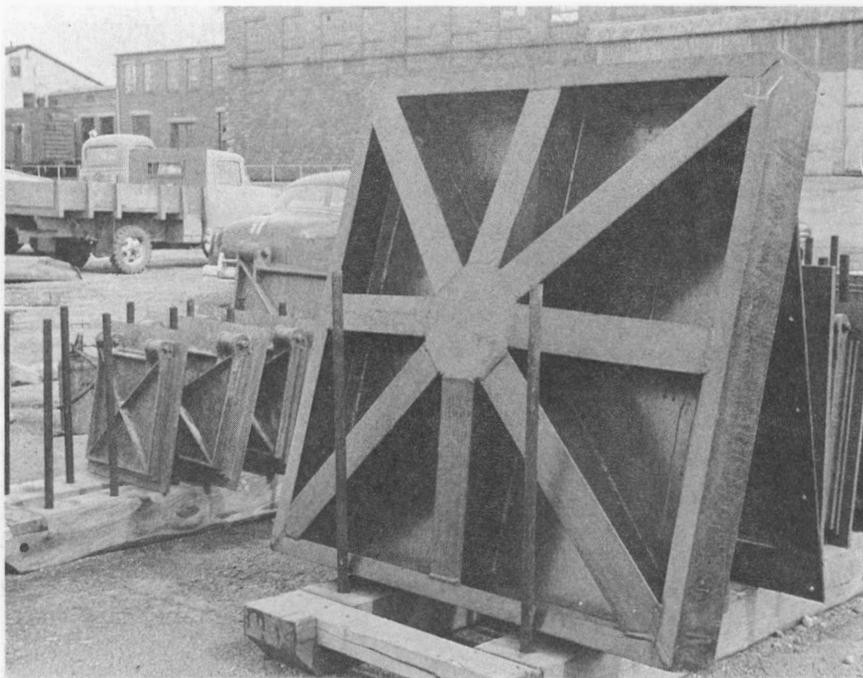


Fig. 5 - A few of the various sizes of gates which are used on sluices. The large gate is a steel 5' x 5', the smallest on the next rack is a bronze 1-1/2' x 1-1/2'. (Photo 95-003)

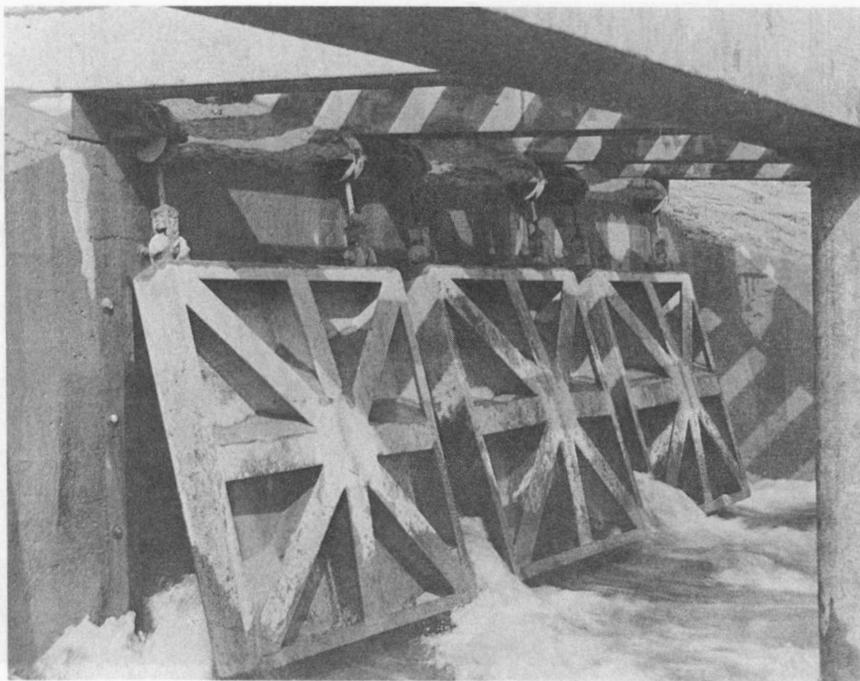


Fig. 6 - The first cable hung, steel gates to be used. They are installed on Palmers' Creek Sluice, Dorchester N. B., and measure 4' x 5' each. (Photo 13-032)



Fig. 7 - Bank erosion on Memramcook West Marsh, West. Co. , N.B. The Memramcook River has worn away the outside berm, until only 15 ft. remains between the bank and the toe of the dyke, which is in danger of undercutting. The pile of rock indicates that protective works are in progress. (Photo 21-037)



Fig. 8 - The same view as in the above photograph; after heavy rock has been placed over the bank in a series of piers. This method proved to be the most permanent protection against undercutting. (Photo 21-054).



Fig. 9 - A rounded inlet to the sluice through Abt. #5, Glenholme Marsh, Col. Co., N.S. The quarter-round steel section is lag screwed to the ends of the timbers, and filled with concrete. There is a noticeable improvement in flow through the sluice as a result. (Photo 64-023).



Fig. 10 - Abt. #1 on Allan River Marsh, Anna. Co., N.S., under construction. The sluice has been set on its bed, and brushing of the aboiteau fill is in progress. Brushing, as shown here, is done between every 2 ft. layer of fill. (Photo N.S. 30//10)



Fig. 13 - The inlet end of Abt. #3, Seaman Marsh, Cumb. Co. , N.S. The condition of this aboiteau is typical of many old aboiteaux which have fallen into a state of disrepair through lack of maintainance. Note the fill washed out from between the layers of brush. (Photo N.S. 55//3)



Fig. 14 - A general view of the completed works on the Isgonish River, Col. Co. , N.S. This large sluice of reinforced concrete, is under the new Trans-Canada Highwa and replaces a single-lane bridge which was located off the right of the photo. (Photo 15-025)