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# SEVENTEENTHOVERNMENT DOCUMENTS ANNUAL REPORT

ON ACTIVITIES UNDER THE MARITIME MARSHLAND REHABILITATION ACT FOR THE FISCAL YEAR ENDED MARCH 31, 1966

MARITIME MARSHLAND REHABILITATION ADMINISTRATION

DOC

2FG A D-D-41 DEPARTMENT OF FORESTRY, CANADA

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DOC 2FG A D-41 1956/66

# SEVENTEENTH ANNUAL REPORT OF ACTIVITIES UNDER THE MARITIME MARSHLAND REHABILITATION ACT, 1965-66

#### INTRODUCTION

The Maritime marshlands cover an estimated 100,000 acres principally around the Bay of Fundy.

Although the majority of farms consist largely of upland holdings, and farms consisting entirely of fertile marshlands are in the minority, the marshlands have long been considered important to the economy of the region. Some areas were protected for agricultural use over 300 years ago.

Federal assistance for the preservation and extension of this resource was arranged after a combination of factors had seriously handicapped the owners.

The Maritime Marshland Rehabilitation Act was passed in 1948. Under the Act, federal responsibility is to provide the main protective works, and that of the provinces is to assure proper land utilization.

The Act was administered by the Canada Department of Agriculture until early 1964 when this responsibility was transferred to the Department of Forestry of Canada. The Maritime Marshland Rehabilitation Administration is the departmental agency established for the program.

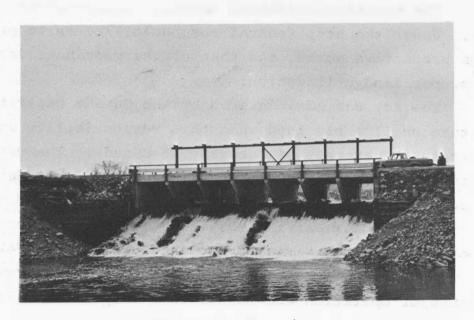
During the year 1965-66, negotiations were carried out with each of the three Maritime Provinces to provide for the orderly transfer from the federal government to the provincial governments of operation and maintenance responsibilities for works constructed under the MMRA program.

As part of the draft agreement, Canada has offered, on a continuing basis, engineering services to the provinces for soil and water conservation programs implemented under the



(Photo No. 566-18)

Figure 1 - Petitcodiac River Dam, Westmorland County, N.B. Start of excavation for the re-inforced concrete control structures, early in 1966.



(Photo No. 1164-8)

Figure 2 - Parrsboro Dam, Cumberland County,
N.S. Combination highway and water
control structure constructed under
the ARDA program.

Agricultural Rehabilitation and Development Act.

MMRA has been the operating arm of ARDA in the Atlantic Provinces since 1963, and, in this capacity, will become the engineering agency responsible for providing the services outlined in the draft agreement.

#### ADMINISTRATION AND ORGANIZATION

The headquarters of the Maritime Marshland Rehabilitation Administration was established in Amherst, Nova Scotia, in the summer of 1949, under the control of a Director responsible to the Deputy Minister.

The Maritime Marshland Rehabilitation Advisory Committee was established early in the program and functioned as required under Section 8 of the Act. The Act states "No work shall be undertaken in any Province ... unless (a) the work has been recommended by an Advisory Committee ....".

On January 1, 1966 the Atlantic Regional Office of the Rural Development Branch of the department was located in Amherst, N.S. to administer the Agricultural Rehabilitation and Development Act and the Maritime Marshland Rehabilitation Act. The Maritime Marshland Rehabilitation Administration became the Soil and Water Division of the Regional Office.

The Administration Division of the Regional Office also services the MMRA activities.

The Engineering Division is divided into three categories:

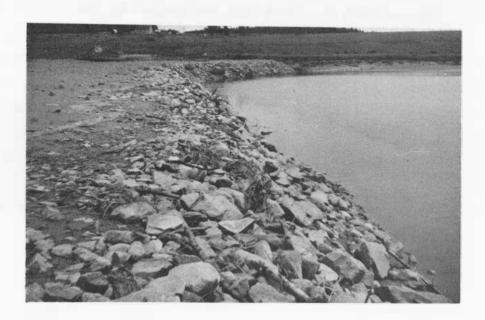
- (a) Surveys, Design and Drafting
- (b) Construction Services
- (c) Workshop and Equipment.

Construction divisions operate from Amherst and Windsor, Nova Scotia, and temporary additional offices are established in the field, from time to time, as required.



(Photo No. 663-15)

Figure 3 - John Lusby Marsh, Cumberland County,
N.S. Standard rock facing on tidal
side of dyke. Rock protects dyke
from wave action and tidal currents.



(Photo No. N.S. 112/1)

Figure 4 - Rhynds Creek Marsh, Hants County, N.S. Rock bank protection on upriver end of the marsh.

#### REVIEW OF PROGRESS TO DATE

#### PROJECTS AND ACREAGES PROTECTED

All projects approved by the Minister and not incorporated into larger projects are designated as active. The number of active projects in each province on March 31, 1966, and the acreages protected are as follows:

Province	No. of Active Projects	Acreage Protected
Nova Scotia	86	44,054
New Brunswick	39	36,936
Prince Edward Island	1	275
TOTAL	126	81,265

Details on the active projects in each province and the acreages protected are listed in Appendix I.

#### CONSTRUCTION OF WORKS

The protection of marshlands from the tides is normally accomplished by the construction of dykes. Structures, known locally as aboiteaux, are incorporated at major stream crossings where fresh water runoff is to be discharged. River bank control and foreshore protective works are installed where required.

The protecting works include:

250 miles of dyke, 78 miles having rock or timber facing;

- 437 aboiteaux;
  - 4 major tidal dams;
  - 20 miles of river bank control installations.



(Photo No. N.S. 54/4)

Figure 5 - Minudie Marsh, Cumberland County,
N.S. Typical section of new dyke
with seeding just completed.
Borrow pit to the right.



(Photo No. 24-050)

Figure 6 - Aulac Marsh, Westmorland County,
N.B. New dyke being harrowed with
special chain harrow, prior to
seeding.

A graph showing the annual progress from 1949 to 1966 appears in Appendix III.

The construction trend, directed by economic feasibility studies, has been toward protecting areas in groups, using a single large aboiteau, or dam, instead of miles of dyke and large numbers of small aboiteaux. This has already been done in the cases of the Shepody, Tantramar and Annapolis dams. This trend will in time render obsolete some of the protective works constructed during the current program.

#### THE CONSTRUCTION PROGRAM FOR 1965-66

#### Standard Projects

Works previously constructed were improved and extended on projects in Nova Scotia and New Brunswick.

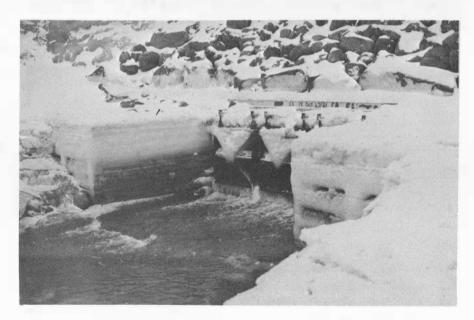
It has been found advantageous to quarry, haul and place required protective rock for most projects during the winter months. This program was successfully continued last winter on the following projects:

- N.S. 8 Grand Pré
  - 12 Victoria Diamond Jubilee
  - 14 Elderkin
  - 23 Masstown
  - 38 St. Croix
  - 42 Amherst Point
  - 65 Bishop Beckwith
  - 67 Onslow-North River
  - 77 Princeport
  - 78 Athol
  - 93 Greenhill
  - 98 Stewiacke
  - 100 Wentworth
  - 103 Annapolis River Dam



(Photo No. 62-038)

Figure 7 - St. Martins Marsh, Saint John
County, N.B. Floating a threebarrel sluice into place at high
tide.



(Photo No. 62-064)

Figure 8 - St. Martins Marsh, Saint John
County, N.B. The sluice shown in
Figure 7 during a winter of severe
icing conditions.

- N.B. 5 Westcock
  - 6 Taylor Village
  - 12 Pré d'en Haut
  - 13 Dorchester
  - 14 Lower Coverdale
  - 16 Dixon Island
  - 21 Memramcook West
  - 24 Aulac
  - 27 College Bridge
  - 37 Sackville
  - 47 Hillsboro
  - 51 Shepody River Dam
  - 58 Memramcook

Details of expenditures to date on all projects are recorded in Appendix II.

#### Special Projects

The existence of several multipurpose structures, serving as aboiteaux and highway or railway culverts, prompted the careful investigation of possible combined undertakings early in the rehabilitation program. Such investigations have been continued. Among the larger projects being considered are the Avon River Causeway, Hants County, Nova Scotia, in conjunction with the Nova Scotia Department of Highways and the Dominion Atlantic Railway.

During the year, construction was started on a major multipurpose dam on the Petitcodiac River, Westmorland Co., N.B., immediately adjacent to the City of Moncton. This dam will provide both protection for upstream marshlands and a highway crossing.

#### Investigations for ARDA

The studies and investigations requested by the provinces, principally under the Soil and Water Conservation

program of the Agricultural Rehabilitation and Development Act, have been closely related to the MMRA staff's demonstrated capabilities in the field of fresh water and tidal hydraulic engineering.

At the end of 1964-65 there was a total of 53 projects on which the provinces had requested studies and investigations. During 1965-66 this total was increased by 18 new projects.

The following table lists four general categories into which the various ARDA investigations fall, and the total number of studies requested by the Atlantic Provinces to March 31, 1966. The figures in brackets show the number of studies requested during the year 1965-66.

	CATEGORY	N.S.	N.B.	P.E.I.	Nfld.	Total
1.	Watershed Study	15(2)	4(2)		1	20(4)
2.	Multiple Purpose Dams	14(6)	6(3)	11		31(9)
3.	Drainage Projects	7(1)	3			10(1)
4.	Flood and Erosion Control	18(6)	9(2)		2	29(8)
		54(15)	22(7)	11	3	90(22)

The general categories include various subclassifications, thus, many of the listed projects fall into two or more general categories. Further details are contained in the listing of "MMRA Studies and Investigations for ARDA Projects" which appears as Appendix IV. General location maps are included in Appendix V.

The status of the 71 ARDA project studies and investigations carried out by the MMRA Staff was as follows at the end of March, 1966:

#### Nova Scotia

- 13 projects completed and reports forwarded to the Provincial ARDA Director,
- 9 projects on which investigation or design was in progress,
- 7 projects on which action was pending,
- 12 projects deferred or cancelled at the request of the Nova Scotia Government.

#### New Brunswick

- 13 projects completed and reports forwarded to the Provincial ARDA Director.
  - 2 projects on which investigation or design was in progress,
  - 2 projects on which action was pending.

#### Prince Edward Island

- 10 projects completed and reports forwarded to the Provincial ARDA Director,
  - 1 project on which investigation or design was in progress.

#### Newfoundland

2 projects on which action was pending.

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#### APPENDIX I

## ACTIVE PROJECTS ON MARCH 31, 1966

#### Active Projects

Note: Acreages are based on information available on March 31, 1966, and include dyke rights-of-way, roads and creeks.

#### NOVA SCOTIA

Proje	ct	Name of Marsh	County	Acreage Protected Marsh
N.S.	2	Windsor Forks	Hants	465
N.S.	3	Falmouth Great Dyke	Hants	975
N.S.	4	Queen Anne	Annapolis	477
N.S.	5	Dugau	Annapolis	172
N.S.	6	Saulnierville	Digby	73
N.S.	8	Grand Pré (inc. Wickwire)		3,013
N.S.	11	Truro Dykeland Park	Colchester	878
N.S.	12	Victoria Diamond Jubilee	Colchester	527
N.S.	13	Dentiballis	Annapolis	348
N.S.	14	Elderkin	Hants	203
N.S.	15	Isgonish	Colchester	491
N.S.	16	Castle Frederick	Hants	145
N.S.	17	Falmouth Village	Hants	97
N.S.	18	Ryerson	Annapolis	86
N.S.	20	Advocate	Cumberland	489
N.S.	23	Masstown	Colchester	986
N.S.	24	Noel Shore	Hants	309
N.S.	27	Newport Town	Hants	338
N.S.	30	Allan River	Annapolis	122
N.S.	38	St. Croix	Hants	248
N.S.	39	Round	Colchester	86
N.S.	40	Fort Belcher	Colchester	181
N.S.	41	Habitant	Kings	677
N.S.	42	Amherst Point	Cumberland	2,252
N.S.	44	Converse	Cumberland	838
N.S.	45	Barronsfield	Cumberland	237
N.S.	46	River Hebert	Cumberland	1,052
N.S.	47	Selmah	Hants	188
N.S.	48	Centre Burlington	Hants	158
N.S.	49	Scotch Village	Hants	89
N.S.	50	Herbert River	Hants	74
N.S.	52	St. Mary's Bay	Digby	692

Proje		Name of Marsh	County	Acreage Protected Marsh
N.S.	53	John Lusby	Cumberland	821
N.S.	54	Minudie	Cumberland	2,711
N.S.	55	Seaman	Cumberland	441
N.S.	56	Wellington	Kings	3,105
N.S.	57	New Minas	Kings	304
N.S.	59	Brown Salt Pond	Yarmouth	294
N.S.	61	Kennetcook	Hants	169
N.S.	63	Maccan	Cumberland	200
N.S.	64	Glenholme	Colchester	292
N.S.	65	Bishop Beckwith	Kings	604
N.S.	66	Flemming	Colchester	277
N.S.	67	Onslow North River	Colchester	496
N.S.	68	Tregothic	Hants	576
N.S.	69	Martock	Hants	1,478
N.S.	70	Chegoggin	Yarmouth	425
N.S.	71	Goose Bay	Yarmouth	269
N.S.	72	Horton	Kings	309
N.S.	75	Armstrong	Hants	53
N.S.	76	Farnham Dyke	Kings	192
N.S.	77	Princeport	Colchester	49
N.S.	78	Athol	Cumberland	131
N.S.	79	Chambers	Hants	61
N.S.	80	Starr's Point	Kings	303
N.S.	81	Lower Truro	Colchester	399
N.S.	82	Kentville	Kings	71
N.S.	85	Mantua Poplar Grove	Hants	362
N.S.	86	Central Onslow	Colchester	291
N.S.	87	Chignecto	Cumberland	544
N.S.	88	Burlington	Hants	106
N.S.	90	Old Barns	Colchester	181
N.S.	91	Belcher Street	Kings	346
N.S.	92	Avonport	Kings	255
N.S.	93	Greenhill	Hants	53
N.S.	95	Fort Lawrence-Amherst	Cumberland	3,400
N.S.	97	Highland Village	Colchester	212
N.S.		Stewiacke	Colchester	146
N.S.		Wentworth	Hants	150
N.S.		Pereaux	Kings	113
N.S.		Annapolis River Dam	Annapolis	4,300
N.S.		Sunny Slope	Hants	17
N.S.		Belmont	Hants	72
N.S.		Fort Ellis	Colchester	203
N.S.		Argyle	Yarmouth	45
N.S.		Nappan River Dam	Cumberland	1,074
	111	Burntcoat	Hants	37

# NOVA SCOTIA (Continued)

Project No.	Name of Marsh	County	Acreage Protected Marsh
N.S. 112 N.S. 113 N.S. 114 N.S. 115 N.S. 116 N.S. 117 N.S. 119 N.S. 121 N.S. 125	Great Village Nappan-Maccan Shubenacadie Tufts Upper Maccan Green's Creek	Hants Colchester Colchester Cumberland Hants Colchester Cumberland Colchester Yarmouth	187 134 - 388 111 87 169 75
		TOTAL	44,054

#### NEW BRUNSWICK

Proje No.	ct	Name of Marsh	County	Acreage Protected Marsh
N.B.	4	Allison	Westmorland	197
N.B.	5	Westcock	Westmorland	800
N.B.	6	Taylor Village	Westmorland	444
N.B.	8	Coyle Landry	Westmorland	305
N.B.		Belliveau Village	Westmorland	191
N.B.		Pré d'en Haut	Westmorland	113
N.B.		Dorchester	Westmorland	1,758
N.B.		Lower Coverdale	Albert	149
N.B.	15	Middle Coverdale	Albert	31
N.B.	16	Dixon Island	Westmorland	330
N.B.	17	New Horton	Albert	799
N.B.	18	Fox Creek	Westmorland	96
N.B.	19	Beaumont	Westmorland	207
N.B.	20	Gautreau Village	Westmorland	209
N.B.	21	Memramcook West	Westmorland	1,105
N.B.	24	Aulac	Westmorland	2,050
N.B.	25	Dock	Westmorland	42
N.B.	26	Dover	Westmorland	43
N.B.	27	College Bridge	Westmorland	873
N.B.	28	Upper Coverdale	Albert	45
N.B.	30	Calkins	Albert	227
N.B.	33	West Coverdale	Albert	260
N.B.	36	Boundary Creek	Westmorland	51
N.B.	37	Sackville	Westmorland	473

# NEW BRUNSWICK (Continued)

Proje		Name of Marsh	County	Acreage Protected Marsh
N.B.	40	Woodpoint	Westmorland	43
N.B.	41	Turtle Creek	Albert	125
N.B.	43	Creek's	Albert	93
N.B.	45	Chartersville	Westmorland	348
N.B.	46	Wilson	Westmorland	157
N.B.	47	Hillsboro	Albert	967
N.B.	50	Black River	Saint John	41
N.B.		Shepody River Dam	Albert	5,552
N.B.		Jones Creek	Westmorland	51
N.B.		Missaguash	Westmorland	333
N.B.	56	Tantramar River Dam	Westmorland	17,988
N.B.	57	Redbank	Westmorland	41
N.B.	58	Memramcook	Westmorland	215
N.B.	60	Petitcodiac River	Westmorland	
			and Albert	-
N.B.	62	St. Martins	Saint John	184
N.B.	63	Petitcodiac River Dam	Westmorland	-
			TOTAL	36,936

## PRINCE EDWARD ISLAND

Project No.	Name of Marsh	County	Acreage Protected Marsh
P.E.I. 1	Johnston River	Queens	275

# APPENDIX II

# EXPENDITURES, FISCAL YEARS 1949-65 AND 1965-66

Surveys and Engineering \$2,146 Workshop and Construction	,345.74 \$2	43,011.20 11,012.36 20,375.15
Workshop and Construction		
	,744.83 \$1	20,375.15
Construction and Maintenance of Projects and Special Surveys:		
NOVA SCOTIA		
Allan River	,624.41 ,049.60	1,014.11 30.00 12,417.34 - 29,618.58 250.51 551.83 7,883.53 212.26 3,572.63 - 2,890.08 139.90 9,175.45 383.75 114.80 570.42 326.56 4,494.12 28.69 178.50 475.47 - 473.71 237.54 3,406.77 2,811.80 449.87 3,392.28 138.85

# Construction and Maintenance (Continued):

Fort Belcher	\$ 67,590.27	\$ 435.06
Fort Ellis	49,922.04	20.00
Fox Bow	20,242.73	_
Fort Lawrence - Amherst	85,458.23	2.44
Glenholme	65,825.93	20.00
Goose Bay	29,231.02	50.00
Grand Pré	630,387.76	20,861.54
Granville Centre	27,213.80	20,001.31
	27,213.00	1 022 05
Great Village	22 251 05	1,932.95
Greenhill	33,351.95	4,432.74
Green's Creek	34,865.29	
Habitant	22,812.00	75.68
Herbert River	30,581.03	2,684.93
Highland Village	83,903.60	180.65
Horton	110,779.73	656.00
Isgonish	177,900.56	2,035.83
John Lusby	142,641.76	25.61
Kennetcook	51,416.40	5,102.40
Kentville	21,671.17	60.56
Little River		_
Lower Truro	63,321.09	206.73
	40,917.96	200.75
Maccan Barlan Grand		1 765 77
Mantua, Poplar Grove	91,657.84	1,765.77
Martock	180,400.93	1,432.11
Masstown	210,612.15	16,637.71
McKay	17,165.94	_
Messenger	3,457.06	-
Mill	7,321.94	-
Minudie	151,795.36	10,323.88
Morse	4,616.95	-
Morse Bishop	3,173.26	
Moschelle	28,719.68	-
Mount Anne	60,302.71	
Nappan-Maccan	27,015.87	268.22
Nappan River Dam	177,115.42	_
New Minas	101,348.88	7,590.14
	79,583.66	4,212.39
Newport Town		
Noel Shore	193,770.68	266.76
Old Barns	55,201.30	112.42
Onslow North River	79,659.78	4,275.12
Pré Rond	9,014.96	
Pereaux	22,581.96	27.68
Princeport	17,761.45	3,102.19
Queen Anne	185,744.93	9,254.97
Rhynds Creek	55,015.94	324.15
Ricketson	2,519.54	-
River Hebert	259,671.09	3,887.55
Rosette	2,977.37	_
Round	39,829.16	2,701.96
	58,440.66	2,653.37
Ryerson	20,440.00	2,000.07

# Construction and Maintenance (Continued):

Saulnierville Scotch Village Seaman Selmah Shipley Shubenacadie Southside Starr's Point St. Croix St. Mary's Bay Stewiacke Sunny Slope Tregothic Truro Dykeland Park Tufts Tupperville	\$ 8,755.95 30,755.92 45,653.33 27,902.29 4,609.00 24,201.90 32,099.13 123,289.12 103,427.47 114,957.19 42,245.23 11,240.45 59,409.91 127,348.91 22,184.74 18,608.25	\$ 63.51 57.40 356.68 423.68 - 252.35 342.95 11,772.86 2,695.23 2,616.88 57.40 1,352.92 777.86 27.80
Upper Belleisle Upper Nappan Upper Maccan Victoria Diamond Jubilee Walker Wellington Wentworth Windermere Windsor Forks Woodworth	32,091.75 54,929.55 28,863.22 100,318.36 5,210.13 109,251.82 20,314.61 49,026.18 84,579.07 23,487.11	350.83 10,994.04 - 8,238.55 9,873.61 - 491.54
Subtotal - Nova Scotia Projects NEW BRUNSWICK	\$8,957,003.97	\$243,614.95
Allison Aulac Baie Verte Beaumont Belliveau Village Black River Boundary Creek Calkins Chartersville Cole's Island College Bridge Coverdale Coyle Landry Creeks Dixons Island Dock Dorchester	\$ 29,689.61 311,269.41 923.03 84,199.13 27,824.13 16,358.16 4,990.47 114,407.97 63,946.35 52,094.47 129,827.18 19.31 50,408.95 12,106.04 90,649.87 20,339.76 298,872.87 17,120.37	\$ 155.71 11,354.54 - 757.78 32.10 78.91 - 1,362.12 236.51 - 21,486.58 - 1,536.28 - 6,417.99 50.70 3,901.34 2,405.24

# Construction and Maintenance (Continued):

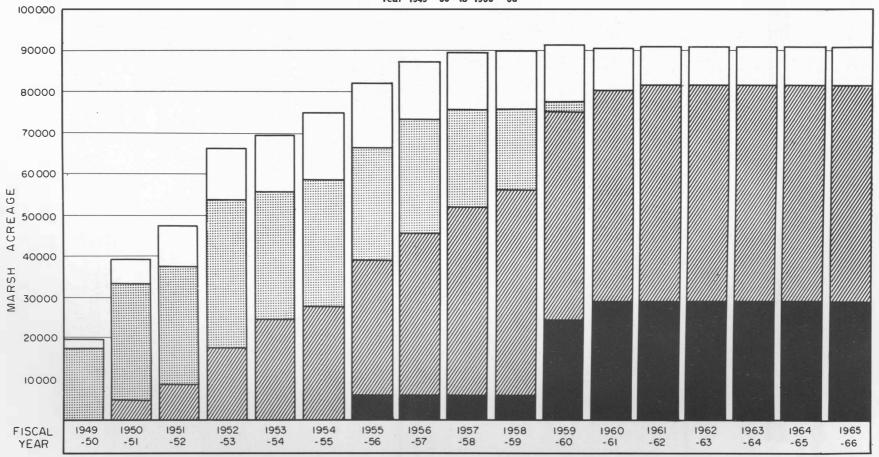
Fox Creek Gautreau Village Great Germantown Hillsboro Hopewell Hill Jones Jones Creek Log Lake Lower Coverdale Memramcook Memramcook West Middle Coverdale Missaguash New Horton Petitcodiac River Dam Pré d'en Haut Red Bank Sackville Shepody River Dam Shepody River Survey St. Martin's Tantramar River Dam Tantramar River Survey Tantramar West Taylor Village Turtle Creek Upper Coverdale Upper Dyke Westcock West Coverdale	\$ 40,746.65 113,575.62 6,828.22 11,909.61 174,454.32 72,406.13 4,803.31 7,845.79 52,004.10 63,304.26 54,573.63 199,942.63 19,941.53 11,534.63 103,305.31 55,575.75 5,060.41 64,029.54 1,589,071.47 26,334.47 51,410.63 775,996.62 23,201.48 45,616.39 104,990.83 27,220.00 20,088.97 11,149.33 186,474.12 82,586.75	\$ 310.80 3,456.55 - 12,273.27 - - 16,149.19 4,349.01 8,999.75 - 8,456.90 5,380.84 5,709.76 78.91 9,517.70 17,574.38 - 401.78 6,508.93 - 8,166.71 202.51 49.35 - 15,056.55 39.46
West Coverdale Wilson	82,586.75 31,243.53	39.46 271.02
Wood Point	2,617.95	
Subtotal - New Brunswick Projects	s \$5,364,891.06	\$172,729.17
PRINCE EDWARD ISLAND		
Johnston River	\$ 20,150.40	7-1
TOTAL EXPENDITURE - CONSTRUCTION AND MAINTENANCE OF PROJECTS AND SPECIAL SURVEYS	\$14,342,045.43	\$416,344.12
TOTAL EXPENDITURE - ADMINISTRATION ENGINEERING, AND SUPERVISION	ON, \$ 6,972,751.29	\$374,398.71
TOTAL	\$21,314,796.72	\$790,742.83

MMRA

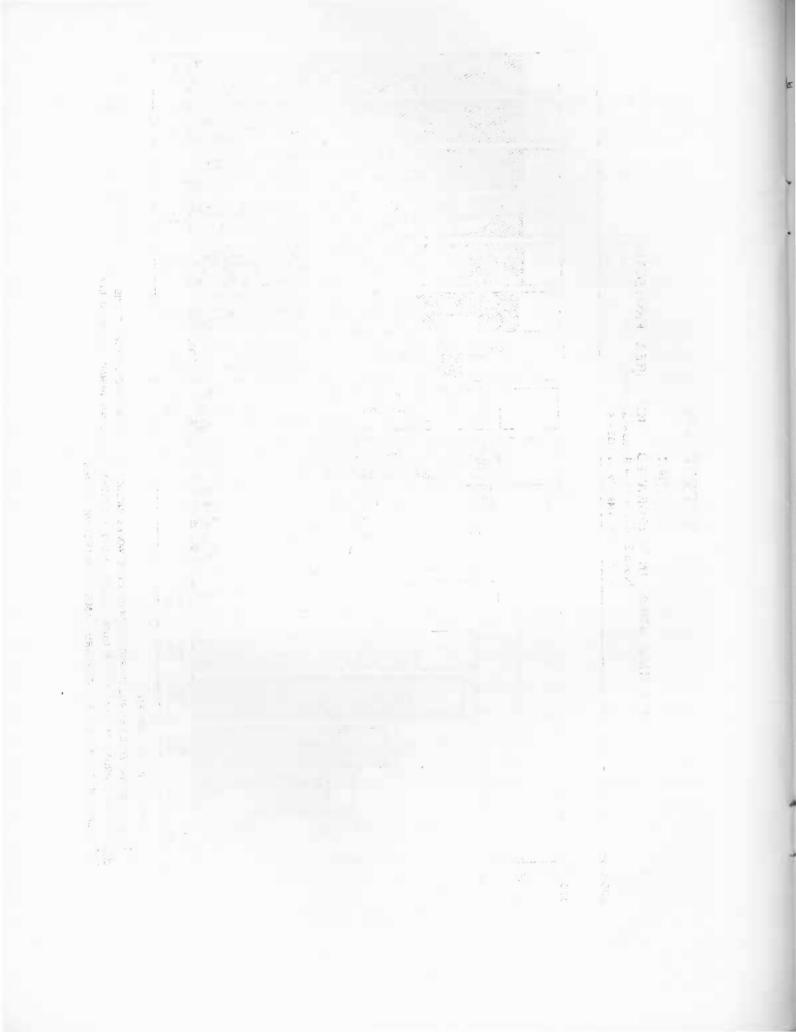
#### SHOWING AREA INCORPORATED AND AREA PROTECTED

Nova Scotia - New Brunswick - P.E.I.

Year 1949 - 50 to 1965 - 66



- ACREAGE INCORPORATED.
- -ACREAGE PROTECTED BY ALL CLASSES OF PROTECTIVE WORKS INCLUDING MINIMUM MAINTENANCE OF EXISTING STRUCTURES.
- -ACREAGE PROTECTED BY MAJOR TIDAL DAMS (SHEPODY, TANTRAMAR, NAPPAN, ANNAPOLIS RIVER DAM)
- -ACREAGE PROTECTED BY STANDARD MMRA PROTECTIVE WORKS.



APPENDIX IV

MMRA STUDIES AND INVESTIGATIONS FOR ARDA PROJECTS

NOVA	SCOTIA				Mar	ch	31, 1966
MMRA Projection	ct	Name of Project	County	*Pro	_		ARDA Project No.
ARDA	1-N.S.	Condon Lake	Kings	2			
ARDA	2-N.S.	Aylesford Bog	Kings	3			
ARDA	3-N.S.	Pleasant River	Queens	3			
ARDA	4-N.S.	Musquodoboit River	Halifax	1,	4		3059
ARDA	5-N.S.	Dewey Creek	Kings	2			3020
ARDA	6-N.S.	West Brook	Cumberland	3			
ARDA	7-N.S.	Stewiacke River	Colchester	1,	4		3025 3026
ARDA	8-N.S.	Salmon & North Rivers	Colchester	1			
ARDA	9-N.S.	East River St. Mary's	Guysborough	1,	4		
ARDA	10-N.S.	West River St. Mary's	Guysborough	1,	4		
ARDA	11-N.S.	Margaree River	Inverness	1,	4		3026
ARDA	12-N.S.	Shubenacadie River	Colchester	1,	2,	4	
ARDA	13-N.S.	Middle River	Victoria	1			
ARDA	14-N.S.	Guysborough	Guysborough	1 A			
ARDA	15-N.S.	Baddeck River	Victoria	1			
ARDA	16-N.S.	Cornwallis River	Kings	2,	4		
ARDA	17-N.S.	Annapolis River	Annapolis	3	(5 ex		
ARDA	18-N.S.	Gold River	Lunenburg	1			
ARDA	19-N.S.	Beaver Meadow	Antigonish	3	.41		
ARDA	20-N.S.	Parrsboro Dam	Cumberland	2			3056
ARDA	21-N.S.	East River- Sheet Harbour	Halifax	2			

<sup>\*</sup>For Project Categories see page 26.

MOMA	SCOTTA	(Continued)
NOVA	PCOLTY	(COII LIII ded)

MMRA Proje No.	ct	Name of Project	County	*Project Category	ARDA Project No.
ARDA	22-N.S.	Scotsburn Marsh	Pictou	3	
ARDA	23-N.S.	Middle River	Pictou	2, 4	
ARDA	24-N.S.	North River	Victoria	4	
ARDA	25-N.S.	River Philip	Cumberland	1, 4	(An
ARDA	26-N.S.	Halfway River	Cumberland	4	
ARDA	27-N.S.	Medway River	Annapolis & Queens	1, 4	
ARDA	28-N.S.	Pictou Harbour Causeway	Pictou	2	
ARDA	29-N.S.	Sydney Harbour Causeway	Cape Breton	2	
ARDA	30-N.S.	Annapolis Valley Pheasant Preserve	Kings	2	
ARDA	31-N.S.	Centre Falmouth Cemetery	Hants	4	
ARDA	32-N.S.	French Mill Brook	Hants	2	
ARDA	33-N.S.	Beaver Lake to Sea	Yarmouth	3	
ARDA	34-N.S.	River Diversion 1. Rights River 2. West River	Antigonish	4	
ARDA	35-N.S.	McLellan's Pond	Cumberland	2	
ARDA	36-N.S.	East River	Pictou	4	
ARDA	37-N.S.	(S.P.) Jordan River	Shelburne	1	
ARDA	38-N.S.	Gudgeon Brook Dam	Hants	2	
ARDA	39-N.S.	Saulnierville Pond	Digby	2	
ARDA	40-N.S.	Erosion Control- South River	Antigonish	4	
ARDA	41-N.S.	LaHave River Water Control	Lunenburg	1, 4	

<sup>\*</sup>For Project Categories see page 26.

MMRA Proje No.	ct	Name of Project	County	*Project Category	ARDA Project No.
ARDA	1-N.B.	Maugerville- Sheffield Interval Survey	Queens- Sunbury	3, 4	
ARDA	2-N.B.	St. Charles Peat Bog Survey	Kent	3	
ARDA	3-N.B.	North Shore R.D.A.	Gloucester		
ARDA	4-N.B.	Eel River	Restigouche	2	
ARDA	5-N.B.	Kennebecasis River Valley Survey	Kings	1, 4	4024
ARDA	6-N.B.	Upper Tantramar Region Develop- ment Study	Westmorland	3	4029
ARDA	7-N.B.	Tobique River Study	Victoria	1, 4	
ARDA	8-N.B.	Oromocto River, South Branch	Sunbury	4	
ARDA	9-N.B.	Coverdale River	Albert	4	
ARDA	10-N.B.	Dupuis Pond	Kent	2	
ARDA	11-N.B.	St. Norbert	Kent	2	
ARDA	12-N.B.	Hammond River	Kings	4	4024
ARDA	13-N.B.	Keswick Island	York	4	
ARDA	14-N.B.	Nashwaaksis River	York	4	
ARDA	15-N.B.	Nashwaak River	York	4	
ARDA	16-N.B.	LeBlanc's Dam	Westmorland	2	
ARDA	17-N.B.	Warrens Dam	Kent	2	
ARDA	18-N.B.	(S.P.) Skiff Lake Dam	York	2	

<sup>\*</sup>For Project Categories see page 26.

MMRA Proje	ct	Name of Project	County	*Project Category	ARDA Project No.
ARDA	1-P.E.I.	Barlow's Dam (Wellington)	Prince	2	2031
ARDA	2-P.E.I.	Sutherland's Dam (Montague)	Kings	2 20	
ARDA	3-P.E.I.	Stewart's Dam (Vernon River)	Queens	2	21033
ARDA	4-P.E.I.	Paynter's Dam (Long River)	Queens	2	21033 (2019)
ARDA	5-P.E.I.	Quigley's Dam (St. Peter's Bay)	Kings	2	2038
ARDA	6-P.E.I.	Robinson's Dam Tyne Valley)	Prince	2	
ARDA	7-P.E.I.	Indian River	Prince	2	2040
ARDA	8-P.E.I.	St. Peter's Bay	Kings	2	
ARDA	9-P.E.I.	MacMillans Dam (Covehead River	)Queens	2	21007 (2042)
ARDA	10-P.E.I.	Blanchard's Dam	Prince	2	2020
ARDA	11-P.E.I.	Arsenault's Dam	Prince	2	21028 (2021)
NEWFO	UNDLAND	a.			
MMRA Proje No.	ct	Name of Project	County	*Project Category	ARDA Project No.
ARDA	1-Nfld.	Soil & Water Conservation	St. George- Port Au Port District	1, 4	
ARDA	2-Nfld.	Bay Bulls Road	St. John's South District	4	

1-Watershed Study 2-Multiple-Purpose Dam 3-Drainage Project 4-Flood and Erosion Control \*Project Categories:

