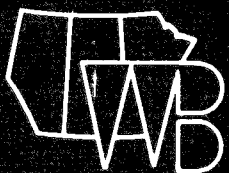


ANNUAL REPORT

1969-70

1970-71

1971-72



PRAIRIE PROVINCES WATER BOARD

CANADA ALBERTA SASKATCHEWAN MANITOBA

PRAIRIE PROVINCES WATER BOARD

ANNUAL REPORTS

1969-70 - 1970-71 - 1971-72

FOREWORD

This report covers the period from October 30, 1969 to March 31, 1972, and summarizes the activities and progress of the Prairie Provinces Water Board which was reconstituted under the Master Agreement on Apportionment dated October 30, 1969. Good progress has been made during this period in establishing the functions and duties in line with the immediate responsibilities and longer term objectives of the Board.

INTRODUCTION

On October 30, 1969, Canada and the Provinces of Manitoba, Saskatchewan, and Alberta entered into an agreement for the apportionment of inter-provincial waters in the Prairie Provinces. Under Schedule C of the Agreement, the Prairie Provinces Water Board was reconstituted and given responsibility for administration of the Apportionment Agreement as well as other related duties.

Between that date and the end of the 1971-72 fiscal year, the reconstituted Prairie Provinces Water Board met five times and discussed the functions and duties of the Board, and the setting up of a permanent Board Secretariat. They have appointed Task Forces to consider the need for studies in the area of water demand and water quality. They have initiated studies for the development of procedures for the determination of natural flows for apportionment purposes, and the development of procedures to meet streamflow forecasting requirements on interprovincial streams. In addition, the Board has had prepared, relative to monitoring the Apportionment Agreement, quarterly reports on the natural flow, consumptive use, and storage in the South Saskatchewan River Basin in Alberta. Summary tables of these items are included. The Board has also completed work assignments carried over from the previous Board.

This report contains summaries of the action taken by the Board in regard to the various PPWB activities for fiscal years 1969-70, 1970-71, and 1971-72. This information is reported according to the duties and responsibilities of the Board as set out in Schedule C of the Master Agreement. The Prairie Provinces Water Board Master Agreement on Apportionment is attached.

SUMMARY OF ACTIVITIES

1969-70

The first meeting of the reconstituted Board took place on January 21 and 22, in Regina, Saskatchewan. A summary of the various PPWB activities for the fiscal year 1969-70 follows:

Natural Flow Determination

The Data Network Planning Committee (DNPC) of the previous Board was retained, and given the task of preparing recommendations on methods to be used for the determination of natural flows at interprovincial boundaries for apportionment purposes. The Committee suggested that the previous PPWB natural flow computational method be used as an interim method, that an agency be assigned the task of developing a new method of determining natural flows, and that the study be done in stages e.g. South Saskatchewan River first, then Red Deer River, then Qu'Appelle River, etc.

Water Quality

The Board decided to prepare an inventory of all water quality data collection being carried out within the Prairie Provinces. This inventory was to indicate the location of stations, the parameters being measured, and the frequency of sampling. Once this inventory was prepared, an assessment would be made of the present water quality situation on the main interprovincial streams, and consideration given to the establishment of water quality standards.

Data Network Planning

The Data Network Planning Committee (DNPC) met with the Water Survey of Canada and their consultants engaged to carry out a hydrometric network study of Alberta, Saskatchewan, and Manitoba. The DNPC discussed the study with the consultants and provided them with prepared technical reports. In addition, the DNPC met with personnel of the Meteorological Branch regarding a study to determine meteorological network requirements. This study would be a consolidation of existing reports on meteorologic data deficiencies, together with the meteorological data requirements which will be identified by the Network Study being done by consultants.

Effects of Lake Diefenbaker on the Pas

An assignment that had been requested under the previous Board was the study of the Effects of Lake Diefenbaker on the flood potential at the Pas. The study was completed by PFRA and a draft report forwarded to the Member for Manitoba.

Functions and Duties of the Board

The functions and duties of the Board are outlined in Section 4 of Schedule C of the Apportionment Agreement. These may be broadly classed into the general responsibilities of overseeing, administering and reporting on the apportionment of interprovincial waters; of reviewing and making recommendations on water management questions including water quality, comprehensive planning, and integrated development of water resources of interprovincial streams; of preparing reports on disputes regarding water apportionment; and of serving as a vehicle between the various governments to provide an exchange of information to permit a combined approach to Prairie water problems.

Board Secretariat

The Board decided to establish a permanent Secretariat that would be independent of any one agency because of the interjurisdictional aspects of the Agreement and the need for joint decisions on matters such as apportionment, disputes, and flows crossing borders. The Secretariat would be established in Regina, Saskatchewan.

Classification of Existing Reports

The classification and distribution of 45 existing PPWB reports was studied by the Acting Engineering Secretary of the PPWB and the PFRA, and a draft report prepared and forwarded to Members of the Board. The object was to prepare a numbering system, and to establish which reports could be made available to the general public.

SUMMARY OF ACTIVITIES

1970-71

Two meetings were held by the Prairie Provinces Water Board during this fiscal year. One meeting was held in Winnipeg, Manitoba, on May 27 and 28, 1970, and the second was held in Regina, Saskatchewan on October 20, 1970. A summary of the action taken by the Board in regard to various PPWB activities for the fiscal year 1970-71 follows:

Apportionment

The Data Network Planning Committee (DNPC) recommended and the Board agreed as an interim measure that the Board use the method employed by the previous PPWB to determine natural flow in order to administer the Apportionment Agreement. This involved the determination of natural flows on the South Saskatchewan River below the confluence with the Red Deer River. The reporting was changed to quarterly, rather than annual, and the Water Survey of Canada was assigned the responsibility for the associated data collection, analysis, computation, and reporting requirements. A summary table of these quarterly reports is attached.

Water Quality Study

The Board agreed there was a need to establish a Water Quality Task Force to examine the Board's responsibility relative to water quality matters in the Prairie Provinces. The Task Force was directed to provide a report containing recommendations on the adequacy of the terms of reference, the time required to complete the assignment, and the additional resources required for the performance of the work.

Development of Procedures for the Determination of Natural Flow and Streamflow Forecasting Studies:

The Board decided to proceed with studies for the determination of natural flows and streamflow forecasting. They approved a phased approach to these studies fitted to the funds available and without commitment to the entire program. Environment Canada was contacted by the Chairman of the Board and requested to

participate in these studies. An employee of the Water Survey of Canada was appointed project manager and requested to develop a detailed Phase I approach to the studies.

The Board identified guidelines for these studies suggesting they should include, among other things, identification of the scope and objectives of the studies, the assessment of existing methods and procedures, the development of new methods, and the determination of locations where natural flows and stream-flow forecasts are required for various purposes. In addition, they should include the determination of priorities and needs for the development and implementation of procedures, the determination of basic information requirements, the development of a plan for processing, analyzing, recording and distributing data and results, an assessment of administration requirements, and the development of a report or reports with recommendations.

Water Demand Study

The Board established a Task Force to examine the need for and terms of reference of a water demand (use) study. The Task Force report was to take a similar form to the SNTAC Report. The first meeting of the Task Force was held on October 13 and 14, 1970. At this meeting there was agreement that there was a need for a water demand study, and also general agreement on the objectives and geographical boundaries. The Task Force felt the study should encompass the three Prairie Provinces with emphasis on the Saskatchewan-Nelson Basin, and also include levels of demand on contiguous basins from or to which water could be diverted.

Small Interprovincial Basins Study

Studies on water use and water supply for drainage basins would provide information on available supplies compared to authorized use. These would be useful to provinces in processing project applications and other administrative procedures. Provincial agencies avoid studies of basins where administrative and jurisdictional problems would be presented by the involvement of more than one government. The matter was referred to the Interim-Secretary, to work with the Provinces to develop a small, two-part program to provide for water use and water supply studies of interjurisdictional streams of concern to the Board. Proposals for specific studies in the various basins were to be defined and the costs of the studies estimated.

Effects of Lake Diefenbaker on the Pas

The final report on the Effects of Lake Diefenbaker on the flood potential at the Pas was completed by PFRA during the fiscal year and copies were distributed to the Board Members.

Alternate Members

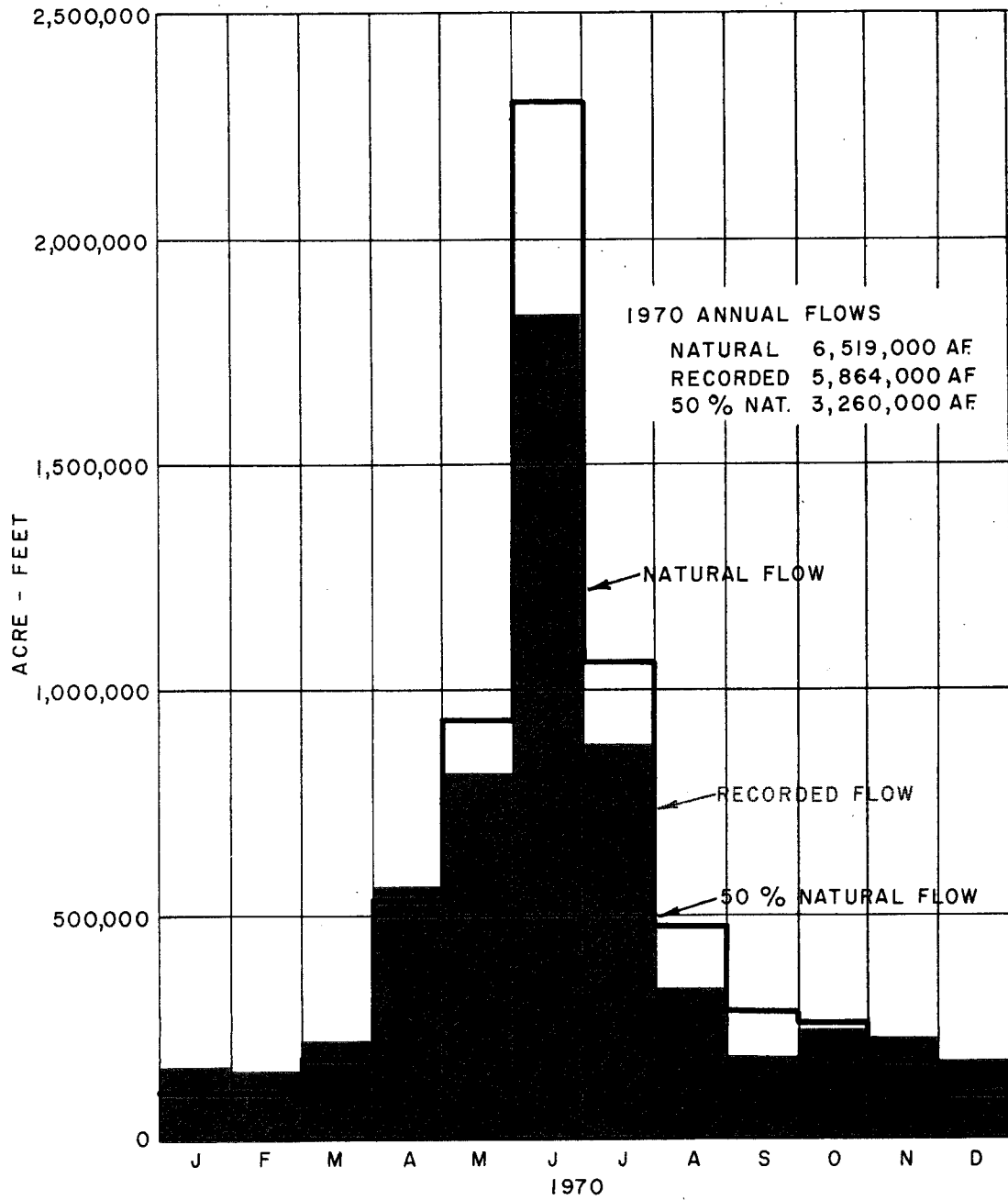
For the efficient operation of the Board, Alternate Members were appointed to act on a Member's behalf during his absence. A list of the Board Members and their Alternates has been included and is shown on pages 16-17.

Board Secretariat

Progress was made in developing administrative arrangements for the conduct of the work of the Board. It was concluded that the Board should have as much independence as possible from any particular agency, and this independence of the Board could be controlled by by-laws. A Committee of two Members was instructed to draw up by-laws for the operation and regulation of the Board.

Water Resource Activities Reports

Reports were presented by the Members of the Board, on the water resource activities in their respective areas. In this way, each Member was kept advised of water developments throughout Alberta, Saskatchewan, and Manitoba.



SOUTH SASKATCHEWAN RIVER NEAR ALBERTA BOUNDARY
INCLUDES RED DEER RIVER

SUMMARY OF ACTIVITIES

1971-72

Two meetings were held by the Board during this fiscal year. The first meeting was held in Edmonton, Alberta, on May 5 and 6, 1971. The second meeting was held in Regina, Saskatchewan, on November 2, 1971. A summary of the action taken by the Board in regard to various PPWB activities for the fiscal year 1971-72 follows.

Interim Method of Natural Flow Determination

Quarterly reports on natural flows, consumptive use, and storage in the South Saskatchewan River Basin in Alberta were prepared and distributed. A summary table of these quarterly reports is attached. The method used to determine natural flows in order to administer the Apportionment Agreement by the previous Board was continued, and will be used until the results of an on-going study of all available methods is concluded.

Water Quality

The first meeting of the PPWB Water Quality Task Force was held in Regina on April 20 and 21, 1971. The Task Force was asked to provide recommendations on the adequacy of, or revisions to, the Terms of Reference provided them by the Board; the time required to complete the assignment; and additional resources required for the performance of the work. Funds were provided for the purposes of engaging the services of agencies or consultants capable of providing assistance. The Task Force engaged Dr. A. B. Sparling of the University of Manitoba to obtain an assessment of water quality in the Prairie Provinces to date. The Board accepted the Task Force progress report and requested they continue their work toward completion of the final report to the Board.

Natural Flow and Streamflow Forecasting Studies

This study is being carried out for the Board by the Water Survey of Canada and the Ministry of Transport and is under the direction of the Data Network Planning Committee of the PPWB. The Phase I studies were

substantially completed and the DNPC concluded that the study group used sound technical approaches. Although the studies should provide a flow forecasting system in two years, satisfactory supporting surface runoff and meteorological networks will be required for the system to be used effectively. A further recommendation of the DNPC, agreed to by the Board, was to initiate and conduct Phase II of the studies within the funds available.

Small Interjurisdictional Basins Study

At the request of the Board, a meeting was held with officials from all three Provincial water agencies to draft an outline for a study of small interjurisdictional basins regarding water supply and water use. It was recognized that there are two types of interjurisdictional basins involved, interprovincial basins, and international-interprovincial basins. The latter type includes the Battle Creek and Lodge Creek Basins on which water is allocated on a project basis under a prior agreement. As these two basins were considered as special cases, the Board allocated funds to study them. The Water Planning and Management Branch of Environment Canada agreed to complete this study. The Board deferred action on the other basins.

Water Demand Study

The Water Demand Study Task Force completed its report to the Board entitled 'Prairie Water Demand Study Outline', dated January 1972. This report identified the size and complexity of the overall problem, the alternative methods that could be considered, and a rough base on which to develop schedules and estimated costs. The report suggests that the objectives of a regional water demand study are the determination of current requirements for water by various users through the Prairie Region, and the development of an effective adjustable mechanism capable of producing useful predictions, on a rolling time basis, of demands and significant trends in future demands. The report, in two volumes, proposes a three year study estimated to cost \$1.25 million. The study would be conducted in three phases with the first phase being a start-up and inventory phase.

Return Flows from Irrigation Districts

During the summer of 1971, Water Survey of Canada carried out a field study of previously unmonitored return flows in the St. Mary River Irrigation

District, Taber Irrigation District, and Lethbridge Northern Irrigation District. This was necessary to improve the accuracy of the interim method of natural flow determination. A miscellaneous measurement program was carried out at approximately 80 return flow sites in these irrigation districts. Three automatic hydrometric stations were established at major return flow sites. This work is a Federal responsibility and the cost is therefore not shareable with the PPWB, but the office studies undertaken on review and analysis of the data obtained is shareable and was included in the budget of the Board.

By-Laws of the Prairie Provinces Water Board

By-laws were formulated to govern the operation of the Board. As the Board wanted the by-laws to be reasonably permanent and not easily changed, an article was included that states: "By-laws may be enacted, amended or repealed by unanimous approval of the Board. 'Notice of Motion' to enact, amend or repeal By-laws must be served on Members at least sixty (60) days prior to a vote on such issue".

Rules and Procedures

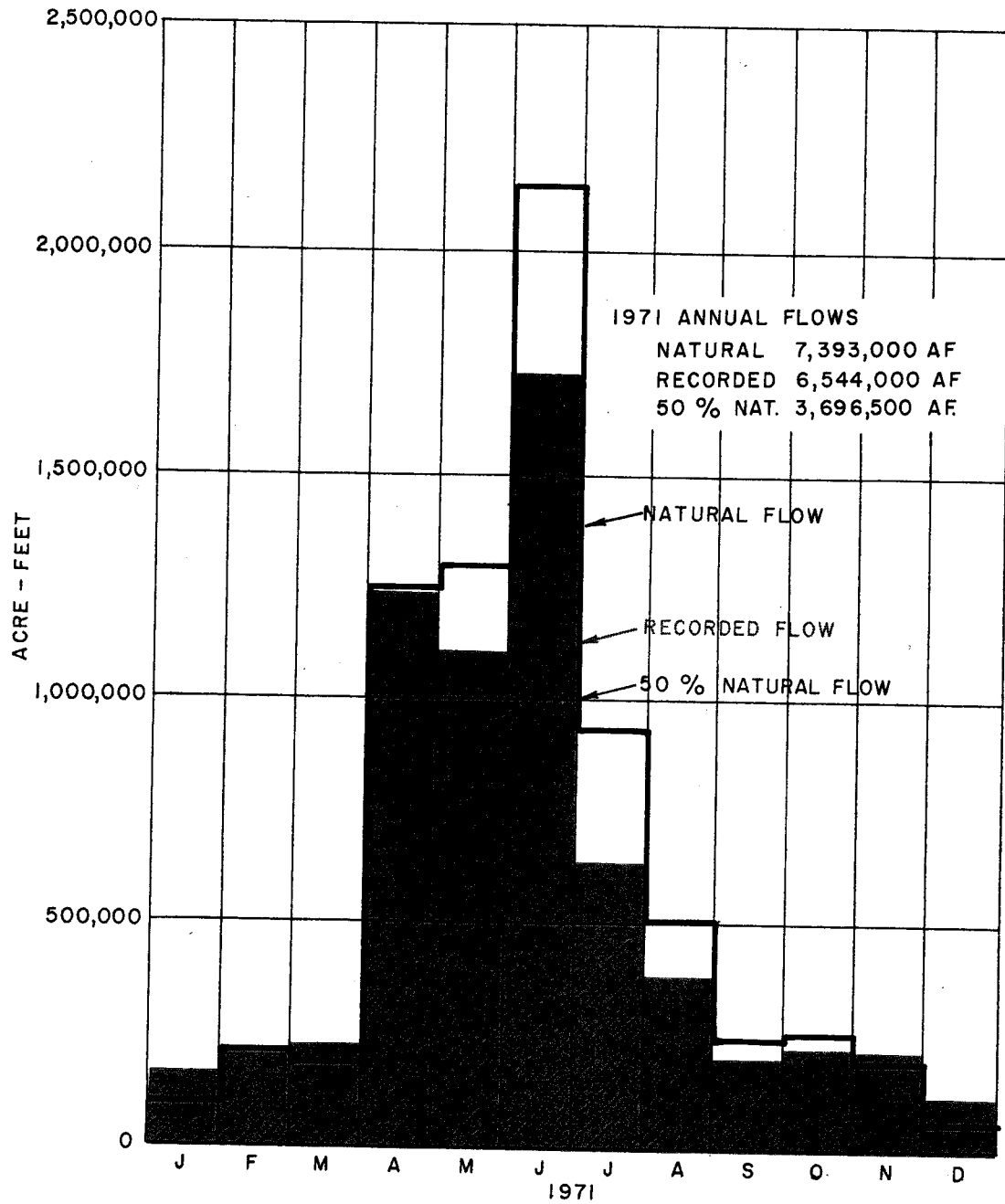
The Board formulated Rules and Procedures to govern the day-to-day affairs of the Board and the operations of the Secretariat. These Rules and Procedures may be amended by motion of the Board.

Board Secretariat

The position of Executive Director was advertised in November 1971 and interviews were held in February. A selection was made after the fiscal year and the Executive Director took office on June 1, 1972.

Water Resource Activities Reports

Reports on water resource activities in their respective areas were provided by the Members of the Board.



SOUTH SASKATCHEWAN RIVER NEAR ALBERTA BOUNDARY
 INCLUDES RED DEER RIVER

APPENDIX INDEX

STATEMENT OF EXPENDITURES

PRAIRIE PROVINCES WATER BOARD MEMBERS

ALTERNATE MEMBERS

WATER DEMAND TASK FORCE MEMBERS

WATER QUALITY TASK FORCE MEMBERS

DATA NETWORK PLANNING COMMITTEE

NATURAL FLOW, CONSUMPTIVE USE AND STORAGE - 1970

NATURAL FLOW, CONSUMPTIVE USE AND STORAGE - 1971

MASTER AGREEMENT ON APPORTIONMENT

STATEMENT OF EXPENDITURES*APRIL 1 TO MARCH 311971-72

Natural Flow and Streamflow Forecasting Studies	\$ 84,107.06
Interim Method of Natural Flow Determination	2,900.00
Network Studies - Return Flows from Irrigation Districts	9,500.00
Battle and Lodge Creek Basins Studies	9,991.98
Water Demand Study Task Force	499.64
Water Quality Task Force	2,634.50
Advertising	1,745.93
	<hr/>
	\$111,379.11

*Unaudited

Note: There were no expenditures charged to the Board in fiscal 1969-70 and fiscal 1970-71.

PRAIRIE PROVINCES WATER BOARDMEMBERS

Chairman	Mr. A. T. Davidson	Assistant Deputy Minister Policy, Planning and Research Service Canada Department of the Environment
	Mr. J. G. Watson	Director Prairie Farm Rehabilitation Administration Department of Regional Economic Expansion
	Mr. R. E. Bailey	Director Water Resources Division Alberta Department of the Environment
	Mr. G. C. Mitchell	Deputy Minister Saskatchewan Department of the Environment
	Mr. T. E. Weber	Director General Water Resources Branch Manitoba Department of Mines, Resources and Environmental Management
Interim Secretary	Mr. G. S. Brown	Head, Western Region Water Planning and Management Branch Canada Department of the Environment

PRAIRIE PROVINCES WATER BOARD

ALTERNATE MEMBERS

Dr. E. R. Tinney	Director General Policy, Planning and Research Service Canada Department of the Environment	(1970-71)
Mr. L. Edgeworth	Assistant Deputy Minister Water Management Service Canada Department of the Environment	(1971-72)
Mr. W. B. Thomson	Chief Engineer Prairie Farm Rehabilitation Administration Canada Department of Regional Economic Expansion	
Mr. W. Solodzuk	Chief Engineer Water Resources Division Alberta Department of the Environment	
Mr. S. R. Blackwell	Chief Water Management Service Saskatchewan Department of the Environment	
Mr. N. Mudry	Director of Planning Water Resources Branch Manitoba Department of Mines, Resources and Environmental Management	

TASK FORCE ON WATER DEMAND (USE)

STUDY IN THE PRAIRIE PROVINCES

- | | | |
|-----------------|---|--|
| G. T. Forsyth | - | Chairman - Canada Department of Regional Economic Expansion |
| P. T. Reynolds | - | Canada Department of Energy, Mines and Resources |
| C. Primus | - | Alberta Department of the Environment |
| S. R. Blackwell | - | Saskatchewan Department of the Environment |
| V. M. Austford | - | Manitoba Department of Mines, Resources and Environmental Management |
| <hr/> | | |
| G. S. Brown | - | Secretary - Canada Department of the Environment |

TASK FORCE ON WATER QUALITY

IN THE PRAIRIE PROVINCES

- | | | |
|----------------|---|--|
| M. H. Prescott | - | Chairman - Saskatchewan Department of the Environment |
| H. Hogge | - | Alberta Department of the Environment |
| G. H. MacKay | - | Manitoba Department of Mines, Resources and Environmental Management |
| S. W. Reeder | - | Canada Department of the Environment |
| P. J. Rivard | - | Canada Department of Regional Economic Expansion |
| <hr/> | | |
| G. S. Brown | - | Secretary - Canada Department of the Environment |

DATA NETWORK PLANNING COMMITTEE

- D. A. Davis - Chairman 1971-72 - Canada Department of the Environment
- S. R. Blackwell - Chairman 1970-71 - Saskatchewan Department of the Environment
- Mr. D. L. MacLeod replaced Mr. Blackwell on this Committee in February 1971
- G. H. MacKay - Manitoba Department of Mines, Resources and Environmental Management
- R. K. Deepprose - Alberta Department of the Environment
- S. J. Buckler - Canada Department of Transport
- L. K. Szojka - Canada Department of Regional Economic Expansion
-
- E. T. Wagner - Secretary - Canada Department of the Environment (1970-71)
- J. R. Hart - Secretary - Saskatchewan Department of the Environment (1971-72)

**NATURAL FLOW, CONSUMPTIVE USE AND STORAGE IN THE
SOUTH SASKATCHEWAN RIVER BASIN - SUMMARY
(ACRE-FEET)**

1970

SOUTH SASKATCHEWAN RIVER - ALBERTA BOUNDARY

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	1970 TOTALS
RECORD DISCHARGE	157,000	146,000	201,000	289,000	676,000	1,320,000	546,000	208,000	103,000	173,000	200,000	165,000	4,184,000
CONSUMPTIVE USE	0	0	0	6,590	127,000	206,500	184,000	189,000	163,600	53,700	-2,050	0	928,000
CHANGE IN RESERVOIRS	-59,000	-46,100	-40,700	-37,700	-1,270	327,000	-3,100	-54,300	-72,900	-48,700	-60,400	-78,900	-176,000
DIVERSION INTO BASIN	0	0	0	0	2,760	22,600	20,700	24,300	18,100	12,600	810	0	102,000
ADJUSTMENT CANADIAN SHARE OF	-2,450	-2,350	-2,650	-4,230	-12,290	-67,900	-1,900	-1,700	575	-460	1,000	2,600	-92,000
NATURAL FLOW ALTA. BNDRY.	95,600	97,600	157,700	254,000	792,200	1,808,000	745,700	365,400	212,400	190,100	139,400	83,500	4,942,000

RED DEER RIVER - ALBERTA BOUNDARY

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	1970 TOTALS
RECORDED DISCHARGE	14,300	11,300	26,100	278,000	147,000	521,000	339,000	131,000	89,900	76,200	32,000	13,700	1,680,000
CONSUMPTIVE USE	0	0	0	0	0	0	0	0	0	0	0	0	0
DIVERSION INTO BASIN	0	0	0	0	-2,760	-22,600	-20,700	-24,300	-18,100	-12,600	-810	0	-102,000
NATURAL FLOW ALTA. BNDRY.	14,300	11,300	26,100	278,000	144,000	498,000	318,300	106,700	71,800	63,600	31,200	13,700	1,577,000

SOUTH SASKATCHEWAN - BELOW JUNCTION WITH RED DEER

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	1970 TOTALS
RECORDED DISCHARGE	171,300	157,300	227,100	567,000	823,000	1,841,000	885,000	339,000	193,000	249,200	232,000	178,700	5,864,000
NATURAL FLOW	109,900	108,900	183,800	532,000	936,400	2,306,000	1,064,000	472,000	284,000	253,700	170,600	97,200	6,519,000

**NATURAL FLOWS, CONSUMPTIVE USE AND STORAGE IN THE
SOUTH SASKATCHEWAN RIVER BASIN - SUMMARY
(ACRE-FEET)**

1971

SOUTH SASKATCHEWAN RIVER - ALBERTA BOUNDARY

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	1971 TOTALS
RECORDED DISCHARGE	155,000	208,000	205,000	479,000	887,000	1,400,000	451,000	261,000	122,000	155,000	204,000	108,000	4,635,000
CONSUMPTIVE USE	0	0	0	11,700	111,300	188,300	231,000	227,700	154,100	79,300	0	0	1,003,400
CHANGE IN RESERVOIRS	-64,500	+1,100	-39,000	+2,800	+121,300	+291,200	+127,300	-47,100	-47,400	-59,400	-32,900	-61,800	+191,600
DIVERSION INTO BASIN	0	0	0	0	-2,500	-11,200	-11,300	-13,400	-11,900	-10,500	0	0	-60,800
ADJUSTMENT CANADIAN SHARE OF	-3,100	-6,100	-4,700	+1,130	+53,070	+71,920	+66,900	+64,800	+67,100	+200	+4,100	+2,300	+317,600
NATURAL FLOW ALTA. BNDRY.	87,400	203,000	161,300	492,400	1,069,000	1,818,800	753,900	390,200	173,500	185,200	167,000	43,900	5,545,000

RED DEER RIVER - ALBERTA BOUNDARY

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	1971 TOTALS
RECORDED DISCHARGE	13,700	15,200	32,000	760,000	225,000	330,000	192,000	133,000	84,600	80,600	29,400	13,200	1,909,000
CONSUMPTIVE USE	0	0	0	0	0	0	0	0	0	0	0	0	0
DIVERSION INTO BASIN	0	0	0	0	+2,500	+11,200	+11,300	+13,400	+11,900	+10,500	0	0	+60,800
NATURAL FLOW ALTA. BNDRY.	13,700	15,200	32,000	760,000	222,500	318,800	180,700	119,600	72,700	70,100	29,400	13,200	1,848,000

SOUTH SASKATCHEWAN RIVER - BELOW JUNCTION WITH RED DEER

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	1971 TOTALS
RECORDED DISCHARGE	168,700	223,200	237,000	1,239,000	1,112,000	1,730,000	643,000	394,000	206,000	235,600	233,400	121,200	6,544,000
NATURAL FLOW	101,100	218,200	193,300	1,252,400	1,291,500	2,137,600	934,600	509,800	246,100	255,300	196,400	57,100	7,393,000

RECORDED DISCHARGE - SUMMARY
(ACRE-FEET)

NORTH SASKATCHEWAN RIVER - ALBERTA BOUNDARY - (NEAR DEER CREEK)

RECORDED DISCHARGE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1970	162,000	139,000	158,000	497,000	502,000	1,060,000	1,070,000	632,000	311,000	173,000	110,000	161,000	4,975,000
1971	135,000	108,000	120,000	743,000	592,000	1,320,000	1,230,000	995,000	392,000	250,000	181,000	108,000	6,174,000

BATTLE RIVER - ALBERTA BOUNDARY - (NEAR UNWIN)

RECORDED DISCHARGE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1970	1,680	1,640	1,850	122,000	55,000	18,800	57,500	15,100	6,650	5,980	5,230	3,050	294,480
1971	2,020	2,490	2,220	119,000	96,300	27,000	21,900	19,300	8,820	6,460	4,420	2,010	311,940

SASKATCHEWAN RIVER - MANITOBA BOUNDARY - (AT THE PAS)

RECORDED DISCHARGE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1970	920,000	1,020,000	847,000	928,000	2,550,000	163,000	2,510,000	1,950,000	1,050,000	887,000	861,000	722,000	15,875,000
1971	1,050,000	1,130,000	1,160,000	1,690,000	2,590,000	1,870,000	1,930,000	1,770,000	915,000	803,000	917,000	731,000	16,556,000

QU'APPELLE RIVER - MANITOBA BOUNDARY - (AT TANTALON)

RECORDED DISCHARGE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1970	7,690	7,240	7,990	34,600	58,700	61,400	47,500	29,000	7,990	17,800	21,300	13,600	314,810
1971	8,730	6,250	11,100	50,900	76,900	40,400	6,110	1,820	4,470	14,200	12,900	10,100	243,880

PRAIRIE PROVINCES WATER BOARD
MASTER AGREEMENT
ON APPORTIONMENT

MASTER AGREEMENT ON APPORTIONMENT

THIS AGREEMENT is made in quadruplicate this THIRTIETH day of OCTOBER, 1969, A. D.

BETWEEN:

Her Majesty, the Queen, in right of Canada, represented herein by the Minister of Energy, Mines and Resources

(Hereinafter called "Canada")

- and -

Her Majesty, the Queen, in right of Alberta, represented herein by the Minister in charge of Water Resources for Alberta

(Hereinafter called "Alberta")

- and -

Her Majesty, the Queen, in right of Saskatchewan, represented herein by the Minister in charge of The Water Resources Commission Act of the said Province

(Hereinafter called "Saskatchewan")

- and -

Her Majesty, the Queen, in right of Manitoba, represented herein by the Minister in charge of the Water Control and Conservation Branch Act of the said Province

(Hereinafter called "Manitoba")

WHEREAS under natural conditions the waters of the watercourses hereinafter referred to arising in or flowing through the Province of Alberta would flow into the Province of Saskatchewan and under the said conditions the waters of some of the said watercourses arising in or flowing through the Province of Saskatchewan would flow into the Province of Manitoba;

AND WHEREAS the Governor-in-Council has authorized Canada to enter into this agreement by Order-in-Council P.C. 1969-8/2051 dated October 29, 1969, and the Lieutenant Governors-in-Council for Alberta, Manitoba and Saskatchewan, respectively, have authorized them to enter into this agreement by the following Orders-in-Council:

Alberta	- O.C. 2053/69
Manitoba	- O.C. 1359/69
Saskatchewan	- O.C. 1612/69

AND WHEREAS the parties hereto deem it to be in their mutual interest that an agreement be reached among the four parties as to the apportionment as described in the schedules attached hereto of such interprovincial waters among the three Provinces;

AND WHEREAS Alberta and Saskatchewan have entered into an agreement, which agreement is attached to this agreement as Schedule A, that permits the Province of Alberta to make a net depletion of one-half the natural flow of water arising in or flowing through the Province of Alberta and that permits the remaining one-half of the natural flow of each such watercourse to flow into the Province of Saskatchewan, subject to certain prior rights as are set forth in the said agreement;

AND WHEREAS Saskatchewan and Manitoba have entered into an agreement, which agreement is attached to this Agreement as Schedule B, that permits the Province of Saskatchewan to make a net depletion of one-half the natural flow of water rising in, and one-half of the water flowing into the Province of Saskatchewan, and that permits the remaining one-half of the flow of each such watercourse to flow into the Province of Manitoba, subject to such conditions and agreements as therein contained;

AND WHEREAS the parties are desirous that the Prairie Provinces Water Board (referred to herein as the Board), reconstituted by this agreement will be responsible for the administration of this agreement;

AND WHEREAS the parties hereto recognize the continuing need for consultation and co-operation as between themselves with respect to the matters herein referred to so that the interests of all the parties are best served;

NOW THEREFORE, THIS AGREEMENT (hereinafter known as the Master Agreement) witnesseth that each party agrees as follows:

Interprovincial Agreements

1. Alberta and Saskatchewan agree that the agreement between them (hereinafter called the First Agreement), a copy of which is set out in Schedule A to this Master Agreement, will become binding upon them upon the date that the Master Agreement is executed.
2. Saskatchewan and Manitoba agree that the agreement between them (hereinafter called the Second Agreement), a copy of which is set out in Schedule B to this Master Agreement will become binding upon them upon the date that the Master Agreement is executed.
3. The parties agree to the apportionment of water between Alberta and Saskatchewan and Manitoba as provided in the First and Second Agreements and each party agrees to be bound by the said agreements as they relate to apportionment as if it were a party thereto.
4. The parties agree that the First or Second Agreement, or both, may be altered by an agreement in writing among the four parties to the Master Agreement, but not otherwise.
5. The parties agree that the First or Second Agreements will continue in force and effect until cancelled by an agreement in writing among the four parties to the Master Agreement.

Water Quality

6. The parties mutually agree to consider water quality problems; to refer such problems to the Board; and to consider recommendations of the Board thereon.

Monitoring

7. The parties agree that the monitoring of the quantity and quality of waters as specified in the First and Second Agreements, the collection, compilation and publication of water quantity and quality data required for the implementation and maintenance of the provisions of this agreement shall be conducted by Canada, subject to provision of funds being voted by the Parliament of Canada.

Administration

8. The parties agree, subject to Clause 9 of this Agreement that if at any time, any dispute, difference or question arises between the parties with respect to this agreement or the construction meaning and effect thereof, or anything therein, or the rights and liabilities of the parties thereunder or otherwise in respect thereto, then every such dispute, difference or question will be referred for determination to the Exchequer Court under the provisions of the Exchequer Court Act of Canada and each of the parties thereto agrees to maintain or enact the necessary legislation to provide the Exchequer Court with jurisdiction to determine any such dispute, difference, or question in the manner provided under the Exchequer Court Act.
9. The parties also agree that the Board, with the consent of the parties in dispute, may cause to be prepared, a factual report of the dispute for consideration by the parties hereto prior to the referral of the dispute to the Exchequer Court.
10. The parties agree that the Prairie Provinces Water Board shall monitor and report on the apportionment of waters as set out in the provisions of the First and Second Agreements and ratified by this Master Agreement.
11. The parties to revoke the agreement dated July 28, 1948, establishing the Prairie Provinces Water Board and to reconstitute the

Prairie Provinces Water Board in the form of Schedule C hereto and the said Schedule shall form and become part of this Master Agreement.

12. Because the Orders-in-Council referred to in Schedule D hereto will become redundant upon the execution of this Master Agreement, the parties agree to take steps to have them revoked.
13. The parties agree for the future application of the provisions of the Master Agreement (and the First and Second Agreements thereunder), to work together and to cooperate to the fullest extent each with the other for the integrated development and use of water and related resources to support economic growth according to selected social goals and priorities and to participate in the formulation and implementation of comprehensive planning and development programs according to their national, regional and provincial interest and importance.
14. No Member of the Parliament of Canada or Member of the Legislative Assemblies of the Provinces party to this agreement shall hold, enjoy, or be admitted to any share or part of any contract, agreement, commission or benefit arising out of this agreement.

IN WITNESS HEREOF Canada has caused its presents to be executed by its Minister of Energy, Mines and Resources, and Alberta has caused its presents to be executed by its Minister in charge of Water Resources, and Saskatchewan has caused its presents to be executed by its Minister in charge of The Water Resources Commission Act, and Manitoba has caused its presents to be executed by its Minister in charge of The Water Control and Conservation Branch Act on the day and year first mentioned above.

"A. Davidson"

Witness to the signature of the Minister
(Energy, Mines and Resources) for Canada

"J.J. Greene"

Minister (Energy, Mines and Resources) for
Canada

October 30, 1969

Date

"R. E. Bailey"

Witness to the signature of the Minister in
charge of Water Resources for Alberta

"H. A. Ruste"

Minister in charge of Water Resources for
Alberta

October 30, 1969

Date

"Harold W. Pope"

Witness to the signature of the Minister in
charge of The Water Resources Commission
Act for Saskatchewan

"A.R. Guy"

Minister in charge of The Water Resources
Commission Act for Saskatchewan

October 30, 1969

Date

"T. E. Weber"

Witness to the signature of the Minister in
charge of the Water Control and Conserva-
tion Branch Act for Manitoba

"Lenard S. Evans"

Minister in charge of The Water Control
and Conservation Branch Act for Manitoba

October 30, 1969

Date

SCHEDULE A

THIS AGREEMENT is made in quadruplicate this THIRTIETH day of OCTOBER, 1969, A.D.

BETWEEN:

HER Majesty, the Queen, in right of Alberta, represented herein by the Minister in Charge of Water Resources for Alberta

(Hereinafter called "Alberta")

- and -

HER Majesty, the Queen, in right of Saskatchewan, represented herein by the Minister in charge of The Water Resources Commission Act of the said Province

(Hereinafter called "Saskatchewan")

WHEREAS under natural conditions the waters of the watercourses hereinafter referred to arising in or flowing through the Province of Alberta would flow into the Province of Saskatchewan and under the said conditions the waters of some of the said watercourses arising in or flowing through the Province of Saskatchewan would flow into the Province of Manitoba;

AND WHEREAS the parties hereto deem it to be in their mutual interest and in the interest of Manitoba that an agreement in principle be reached among the said three Provinces as to the apportionment of such interprovincial waters among them;

AND WHEREAS the parties hereto are of the opinion that an equitable apportionment of such waters as between the adjoining Provinces of Alberta and Saskatchewan would be to permit the Province of Alberta to make a net depletion of one-half the natural flow of water arising in or flowing through the Province of Alberta and to permit the remaining one-half of the natural flow of water of each such watercourse to flow into the Province of Saskatchewan, subject to certain

prior rights as are hereinafter set forth or may hereafter be mutually agreed upon in writing;

AND WHEREAS on the basis of the foregoing apportionment as between the Provinces of Alberta and Saskatchewan the parties hereto are of the opinion that in a similar manner, an equitable apportionment of the remainder of the natural flow of the said watercourses that flow into the Province of Manitoba after permitting the Province of Alberta to make its depletion of one-half thereof would be to permit the Province of Saskatchewan to make a net depletion of one-half of the said remainder and to permit the other one-half thereof to flow into the Province of Manitoba; and that the natural flow of any tributaries to the said watercourses which tributaries join the said watercourses in the Province of Saskatchewan without arising in or first flowing through the Province of Alberta could be apportioned one-half to the Province of Saskatchewan and one-half to the Province of Manitoba in a manner similar to the apportionment of waters as between the Provinces of Alberta and Saskatchewan, in all cases subject to such prior rights as may be mutually acknowledged by the said Provinces of Manitoba and Saskatchewan;

AND WHEREAS the parties hereto recognize the continuing need for consultation and cooperation as between themselves and with Manitoba with respect to the matters herein referred to so that the best and most beneficial use of the said waters may be made and the interests of all said provinces best served:

NOW THIS AGREEMENT witnesseth as follows:

1. IN THIS AGREEMENT:

- (a) "Natural Flow" means the quantity of water which would naturally flow in any watercourse had the flow not been affected by human interference or human intervention, excluding any water which is part of the natural flow in Alberta but is not available for the use of Alberta because of the provisions of any international treaty which is binding on Alberta.

- (b) "Watercourse" means any river, stream, creek, or other natural channel which from time to time carries a flowing body of water from the Province of Alberta to the Province of Saskatchewan and includes all tributaries of each such river, stream, creek or natural channel which do not themselves cross the common boundary between the Provinces of Alberta and Saskatchewan. Such tributaries as do themselves cross the said common boundary between the Provinces of Alberta and Saskatchewan shall be deemed to be "watercourses" for the purpose of this agreement.
2. (a) The parties hereto shall mutually establish a method by which to determine the natural flow of each watercourse flowing across their said common boundary.
- (b) For the purpose of this agreement, the said natural flow shall be determined at a point as near as reasonably may be to their said common boundary.
- (c) Notwithstanding sub-paragraph (b) the point at which the natural flow of the watercourses known as the South Saskatchewan and Red Deer Rivers is to be determined may be, at the option of Alberta, a point at or as near as reasonably may be below the confluence of the said two rivers.
3. Alberta shall permit a quantity of water to one-half of the natural flow of each watercourse to flow into the Province of Saskatchewan, and the actual flow shall be adjusted from time to time on an equitable basis during each calendar year, but this shall not restrict or prohibit Alberta from diverting or consuming any quantity of water from any watercourse provided that Alberta diverts water to which it is entitled of comparable quality from other streams or rivers into such watercourse to meet its commitments to Saskatchewan with respect to each watercourse.
4. Notwithstanding paragraph 3 hereof, the following special provisions shall apply as between the parties hereto with respect to the watercourse known as the South Saskatchewan River.
- (a) Alberta shall be entitled in each year to consume, or to divert or store for its consumptive use a minimum of 2,100,000 acre-feet net depletion out of the flow of the watercourse known as the South Saskatchewan River even though its share for the said year, as calculated under paragraph 3 hereof, would be less than 2,100,000 acre-feet net depletion, provided however Alberta shall not be entitled to so consume or divert, or store for its consumptive use, more than one-half the natural flow of the said South Saskatchewan watercourse if the effect thereof at any time would be to reduce the actual flow of the said watercourse at the common boundary of the said Provinces of Saskatchewan and Alberta to less than 1,500 cubic feet per second.
- (b) The consumption or diversion by Alberta provided for under the preceding sub-paragraph shall be made equitably during each year, depending on the actual flow of water in the said watercourse and the requirements of each Province, from time to time.
5. The parties hereto shall work together and co-operate to the fullest extent, each with the other, for the most effective, economical and beneficial use of waters flowing from the Province of Alberta into the Province of Saskatchewan, including the construction and operation of approved projects of mutual advantage to our Provinces on a cost-share basis proportionate to the benefits derived therefrom by each Province, (the approval of which projects shall not be unreasonably withheld by either of the parties hereto) and shall enter into such other arrangements, agreements or accords with each other, and with the Governments of Canada and other Provinces to best achieve the principles herein agreed upon.

6. This agreement shall not adversely affect any right to water in Battle or Lodge Creeks which has been given by the Government of Canada prior to the transfer of the natural resources to the Provinces and is still subsisting, or any right to such water given by either Province heretofore which has been recognized and approved by both Provinces.

"R. E. Bailey"

Witness to the signature of the Minister
in charge of the Water Resources for
Alberta

7. If at any time any dispute, difference or question shall arise between the parties or their representatives touching this agreement or the construction, meaning and effect thereof, or anything therein, or the rights or liabilities, of the parties or their representatives thereunder or otherwise in respect thereto then every such dispute, difference or question shall be referred for determination to the Exchequer Court under the provisions of The Exchequer Court Act of Canada, and each of the parties hereto agrees to enact the necessary legislation to provide the Exchequer Court with jurisdiction to determine any such dispute, difference or question in the manner provided under Section 30 of The Exchequer Court Act.

"Henry A. Ruste"

Minister in charge of Water Resources
for Alberta

8. This agreement shall become effective upon the execution of an agreement by Canada, Alberta, Manitoba and Saskatchewan relative to the apportionment of waters referred to in this agreement.

"Harold W. Pope"

Witness to the signature of the Minister
in charge of the Water Resources Com-
mission Act

IN WITNESS WHEREOF Alberta has caused these presents to be executed on its behalf by its Minister in charge of Water Resources, and Saskatchewan has caused these presents to be executed by its Minister in charge of The Water Resources Commission Act, both on the day and year first above mentioned.

"Allan R. Guy"

Minister in charge of The Water Re-
sources Commission Act

SCHEDULE B

THIS AGREEMENT is made in quadruplicate this THIRTIETH day of OCTOBER, 1969, A.D.

BETWEEN:

HER Majesty, the Queen, in right of Saskatchewan, represented herein by the Minister in Charge of The Water Resources Commission Act of the said Province

(Hereinafter called "Saskatchewan")

- and -

HER Majesty, the Queen, in right of Manitoba, represented herein by the Minister in Charge of The Water Control and Conservation Branch Act of the said Province

(Hereinafter called "Manitoba")

WHEREAS under natural conditions the waters of the watercourses hereinafter referred to arising in or flowing through the Province of Saskatchewan would flow into the Province of Manitoba;

AND WHEREAS the parties hereto deem it to be in their mutual interest and in the interest of Alberta that an agreement in principle be reached among the said three Provinces as to the apportionment of interprovincial waters among them;

AND WHEREAS the parties hereto are of the opinion that an equitable apportionment of such waters as between the adjoining Provinces of Saskatchewan and Manitoba would be to permit the Province of Saskatchewan to make a net depletion of one-half the natural flow of water arising in, and one-half of the flow of water flowing into, the Province of Saskatchewan, and to permit the remaining one-half of the flow of water of each such watercourse to flow into the Province of Manitoba, subject to certain rights as may hereafter be mutually agreed upon in writing;

AND WHEREAS on the basis of the foregoing apportionment as between the Provinces of Saskatchewan and Manitoba, the parties hereto are of the opinion that in a similar manner, an equitable apportionment of the natural flow of the said watercourses arising in or flowing through the Province of Alberta would be to permit the Province of Alberta to make a net depletion of one-half thereof, subject to such prior rights as may be mutually acknowledged by the said Provinces of Alberta, Saskatchewan and Manitoba;

AND WHEREAS the parties hereto recognize the continuing need for consultation and co-operation as between themselves and with Alberta with respect to the matters herein referred to so that the interests of all said Provinces are best served;

NOW THIS AGREEMENT witnesseth as follows:

I. IN THIS AGREEMENT:

- (a) "Natural flow" means the quantity of water which would naturally flow in any watercourse had the flow not been affected by human interference or human intervention.
- (b) "Watercourse" means any river, stream, creek, or other natural channel which from time to time carries a flowing body of water from the Province of Saskatchewan to the Province of Manitoba and includes all tributaries of each such river, stream, creek or natural channel which do not themselves cross the common boundary between the Provinces of Saskatchewan and Manitoba. Such tributaries as do themselves cross the said boundary between the Provinces of Saskatchewan and Manitoba shall be deemed to be "watercourses" for the purpose of this agreement.

2. (a) The parties hereto shall mutually establish a method by which to determine the natural flow of each watercourse flowing across their said common boundary.
- (b) For the purpose of this agreement, the said natural flow shall be determined at a point as near as reasonably may be to their said common boundary.
3. Saskatchewan shall permit in each watercourse the following quantity of water to flow into Manitoba during the period from April 1 of each year to March 31 of the year following: A quantity of water equal to the natural flow for that period determined at the point referred to in paragraph 2(b) hereof, less
 - (a) one-half of the water flowing into Saskatchewan in that watercourse from Alberta, and
 - (b) any water which would form part of the natural flow in that watercourse but does not flow into Saskatchewan because of the implementation of any provision of any subsisting water apportionment agreement made between Alberta and Saskatchewan and approved by Manitoba, and
 - (c) one-half the natural flow arising in Saskatchewan
4. Saskatchewan shall be entitled during such period to consume or to divert or store for its consumptive use the water it is not required to permit to flow into Manitoba in each watercourse under paragraph 3 hereof, but such consumption or diversion shall be made equitably depending on the actual flow of water in each watercourse and the requirements of each Province from time to time, but Saskatchewan shall permit sufficient water to flow into Manitoba to meet its commitments during such period under paragraph 3 hereof.
5. The parties hereto shall work together and co-operate to the fullest extent, each with the other, for the use of waters flowing from the Province of Saskatchewan into the Province of Manitoba, including the construction and operation of approved projects of mutual advantage to the said Provinces on a cost-share basis proportionate to the benefits derived therefrom by each Province (the approval of which projects shall not be unreasonably withheld by either of the parties hereto) and shall enter into such other arrangements, agreements or accords with each other, and with the Governments of Canada and other Provinces to best achieve the principles herein agreed upon.
6. If at any time any dispute, difference or question shall arise between the parties or their representatives touching this agreement or the construction, meaning and effect thereof, or anything therein, or the rights or liabilities of the parties or their representatives thereunder or otherwise in respect thereto then every such dispute, difference or question shall be referred for determination to the Exchequer Court under the provisions of The Exchequer Court Act of Canada, and each of the parties hereto agrees to maintain or enact the necessary legislation to provide the Exchequer Court with jurisdiction to determine any such dispute, difference or question in the manner provided under The Exchequer Court Act.

The actual flow shall be adjusted from time to time by mutual agreement on an equitable basis during such period but this shall not restrict or prohibit Saskatchewan from diverting, storing or consuming any quantity of water from any watercourse provided that Saskatchewan diverts water to which it is entitled of comparable quality from other streams or rivers into such watercourses to meet its commitments to Manitoba with respect to each watercourse.

7. This agreement shall become effective upon the execution of an agreement by Canada, Alberta, Manitoba and Saskatchewan relative to the apportionment of waters referred to in this agreement.

IN WITNESS WHEREOF Saskatchewan has caused these presents to be executed by its Minister in charge of The Water Resources Commission Act, and Manitoba has caused these presents to be executed by its Minister in charge of The Water Control and Conservation Branch Act on the day and year first above mentioned.

"Harold W. Pope"

Witness to the signature of the Minister in charge of the Water Resources Commission Act

"Allan R. Guy"

Minister in charge of The Water Resources Commission Act

"T. E. Weber"

Witness to the signature of the Minister in charge of The Water Control and Conservation Branch Act

"Leonard S. Evans"

Minister in charge of The Water Control and Conservation Branch Act.

SCHEDULE C

PRAIRIE PROVINCES WATER BOARD AGREEMENT

THIS AGREEMENT made this THIRTIETH day of OCTOBER, 1969, A.D.

BETWEEN:

THE GOVERNMENT OF CANADA,
hereinafter called "Canada"

- and -

THE GOVERNMENT OF MANITOBA,
hereinafter called "Manitoba"

- and -

THE GOVERNMENT OF SASKATCHEWAN,
hereinafter called "Saskatchewan"

- and -

THE GOVERNMENT OF ALBERTA,
hereinafter called "Alberta"

1. Manitoba, Saskatchewan, Alberta and Canada agree to establish and there is hereby established a Board to be known as the Prairie Provinces Water Board to consist of five members to be appointed as follows:

- (a) two members to be appointed by the Governor General in Council, one of whom shall be Chairman of the Board, on the recommendation of the Minister of Energy, Mines and Resources,
- (b) one member to be appointed by the Lieutenant Governor in Council of each of the Provinces of Manitoba, Saskatchewan and Alberta.

2. Functions

The Board shall oversee and report on the Master Agreement (including the First and

Second Agreements thereunder) executed by Canada, Alberta, Manitoba and Saskatchewan for the apportionment of waters flowing from one Province into another Province; shall take under consideration, comprehensive planning, water quality management and other questions pertaining to water resource management referred to it by the parties hereto; shall recommend appropriate action to investigate such matters and shall submit recommendations for their resolution to the parties hereto.

3. Composition of Board

The members of the Board shall be chosen from those engaged in the administration of water resources or related duties for Manitoba, Saskatchewan, Alberta or Canada, as the case may be, and shall serve as members of the Board in addition to their other duties.

4. Duties of the Board

In accordance with its functions, the duties of the Board shall be as follows:

- (a) to review, collate, and analyze stream-flow data and prepare reports and recommendations on the apportionment of water,
- (b) to review water quality problems, particularly such problems located at the interprovincial boundaries, and to recommend to the parties hereto, appropriate management approaches for their resolution including the establishment of new institutional arrangements,
- (c) to develop recommendations on other water matters, in addition to problems of water quality, referred to the Board by any party hereto including the review and analysis of existing information and the requesting of additional studies and assistance by appropriate governmental agencies to provide information for formulating its recommendations,

- (d) to promote through consultation and the exchange of information the integrated development of water resources of inter-provincial streams,
- (e) to cause to be prepared with the consent of the parties involved factual reports on disputes arising out of the water apportionment for consideration by the parties hereto,
- (f) to ensure the co-ordination of such technical programs as water quantity and quality monitoring and streamflow forecasting required for the effective apportionment of water.

5. Confirmation of the Board's Recommendations

A recommendation of the Board with respect to any matters referred to it under Section 2 shall, subject to the Master Agreement for the apportionment of water, become effective when adopted by Orders-in-Council passed by Canada and each of the Provinces.

6. Authority of Board

The Board shall have authority to correspond with all Governmental organizations and other sources of information in Canada or abroad concerned with the administration of water resources, and such other authority as may be conferred on the Board from time to time by agreement between the parties hereto; all agencies of the four governments having to do with the water and associated resources in the area covered by the Agreement shall be required to supply the Board with all data in their possession requested by the Board.

7. Records

The records relating to the water resources of the three provinces collected and compiled by the P.F.R.A. organization at Regina shall be made available to the Board.

8. Meetings of the Board

The Board shall meet at the call of the Chairman and meetings shall be called at least twice annually; the expenses of the members shall be borne by their respective governments.

9. Reports

The Board shall submit an annual progress report outlining work done and work contemplated in the agreed program to each of the responsible Ministers of the parties hereto and such other reports as may be requested by any one of such Ministers.

10. Operation of the Board

The Secretary for the Board and such other technical and clerical staff as may be required, with a headquarters at Regina, shall be Federal or Provincial public servants. The cost of administration, excluding the cost of monitoring as described in Section 7 of the Master Agreement, but including staff, accommodation, supplies and incidental expenses of the Board, shall be borne by the parties hereto on the basis of one-half by Canada and one-sixth by each of the Provinces. The Board shall prepare for approval of the parties hereto, work program, staff requirements, annual budgets and five-year forecasts and such other reports as may be required in the operation of the Board.

11. Any water development project already constructed or to be constructed by any one of the parties shall be so operated as to maintain the apportionment of water as set out in the Master Agreement (and the First and Second Agreements thereunder) for the apportionment of waters of interprovincial streams.

