CANADA-ONTARIO
COST SHARING AGREEMENT
FOR
WATER QUANTITY SURVEYS
ANNUAL REPORT 1984-85

SEPTEMBER, 1985

CANADA/ONTARIO COST SHARING AGREEMENT

FOR

WATER QUANTITY SURVEYS

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SEPTEMBER 1985

To Mr J N Bishop
Mr M R Garrett
Administrators for Ontario

Mr E T Wagner
Administrator for Canada

From Members of the Ontario Co-ordinating Committee

In accordance with Article XII of the Memorandum of Agreement signed June 10 1975 covering the water quantity surveys in the Province of Ontario, we submit herewith the annual report for the fiscal year 1984/85

Province of Ontario

P N Gryniewski
Ontario Ministry of Natural Resources

L A Logan
Ontario Ministry of Environment

Government of Canada

L J Kamp
Environment Canada

Ontario Hydro

J M Spratt
Ontario Hydro

September 1985

EXECUTIVE SUMMARY

This annual report prepared by the Co-ordinating Committee has special significance because the end of 1984/85 marked the completion of the tenth year that Canada and Ontario have cost-shared the collection of water quantity and sediment data under the terms of a Memorandum of Agreement between the two levels of government The members of the Committee are of the opinion that the Agreement has served the interests of all parties well over the decade and has facilitated a cost effective water quantity data collection program in Ontario

The Co-ordinating Committee met twice during the year to plan and co-ordinate the hydrometric/sediment data collection program In addition to the preparation of the Schedules A and D the Committee acted on the findings of a detailed review of federal and federal/provincial station classifications and discussed terms of reference for a network planning and evaluation Sub-committee There was one change in the membership of the Committee Mr L A Logan replaced Mr J D Eddie as the Ontario Ministry of Environment representative

Effective April 1 1984, the Ontario network consisted of 449 stations of which 70 were operated by the Manitoba District of the federal Water Resources Branch Additionally the network has 101 stations that are designated as contributed data stations

During the reporting period 9 gauging stations were added and 8 discontinued The Manitoba District office also discontinued operation of 21 stations for the Freshwater Institute Department of Fisheries and Oceans (DFO) effective April 1 1985 Data from these stations will now be contributed by DFO

Nineteen sediment stations were active as of April 1, 1984 As a result of a network review 3 stations were discontinued and 27 seasonal and miscellaneous sediment stations were added to provide improved coverage in Southern Ontario at minimal cost

Field operations met objectives and computations were completed by the May 1 target date as required in national program goals for hydrometric data A number of historic high measurements were taken in Southwestern Ontario in February when rainfall and a ripe snowpack caused major flooding in some areas

The new WRB mini-computer system became operational in June 1984 resulting in vastly improved in-house data processing facilities

Major activities regarding network evaluation and planning included a review of federal and federal/provincial stations with respect to data uses and future needs and a well documented evaluation of 3 specific stations prior to a final decision on discontinuing them

The unit cost for operating a station during 1984/85 was $3 200 per station year for conventional stations and $6 741 per station year for remote stations These costs represent an increase of 2 4% and 6 4% over 1983/84 for conventional and remote stations respectively The total shareable portion of the program including costs for the network in Northwest Ontario was $1,768 000 of which the Provincial share was $772,788 The three provincial agencies shared the cost as follows

Ontario Ministry of Natural Resources	$545 166
Ontario Ministry of Environment	187 019
Ontario Hydro (includes 6 stations operated by OH)	40,603

In the future, the Committee is planning for increased emphasis on network evaluation and planning activities through the proposed sub-committee formed for this purpose In addition, the Committee expects to be involved in responding to various studies and review exercises underway at the federal level as well as initiatives being undertaken regarding the implementation of new technology

C O N T E N T S

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APPENDICES

1 0 INTRODUCTION

This is the tenth annual report which summarizes activities and information related to the Canada/Ontario hydrometric and sediment network Co-operative arrangements for the cost sharing of the network were established by a Memorandum of Agreement between Canada and Ontario in 1975 A sample copy of the agreement, which is similar for all provinces and the territories, is included in the National Annual Reports on Water Quantity Surveys Federal-Provincial Cost Sharing Agreements which is prepared by WRB Headquarters

The Agreement establishes between Canada and Ontario the basis on which co-operative water quantity surveys will be made It requires that the Administrators establish a Co-ordinating Committee to plan and review network operations and prepare annually Schedules A and D for their approval For this year 1984/85 Schedule A (Appendix A) lists the gauging stations in operation and covered by the Agreement and Schedule D (Appendix B) gives the annual cost sharing payment to be paid by Ontario to Canada

The water quantity survey network in operation at March 31 1975 was reviewed to determine the division of responsibility between the federal and Ontario governments Each was designated either Federal Federal-Provincial or Provincial the designation not only indicating the prime need but also the financial responsibilty The Federal government pays 100% of the costs of operation and construction of stations designated 'Federal and 50% of the specified costs of stations designated Federal-Provincial The province pays 100% of the specified costs of operation and construction of stations designated Provincial and 50% of the specified costs of operation and construction of stations designated Federal-Provincial

In Ontario three provincial agencies Ministry of Natural Resources Ministry of Environment and Ontario Hydro all participate in the cost sharing of the network in addition to several federal agencies

In 1977 a set of national guidelines was developed for designating stations in the above categories In 1982/83 these guidelines were revised and formally accepted by the Administrators for implementation beginning April 1 1984 These guidelines are included in the previously mentioned national report

It should be noted that because of geographical location a portion of the Ontario network in the northwest part of the province is operated by the Manitoba District of the Western and Northern Region of the Inland Waters Directorate All 70 stations in this area are designated as Federal and therefore do not affect payments made by the Province of Ontario (The Manitoba District plans to prepare a separate Annual Report for this portion of the network in Northwest Ontario)

As the "operating party', the Water Resources Branch (WRB) Ontario Region has prepared this 1984/85 report on behalf of the Canada/Ontario Co-ordinating Committee Section 2 deals with Committee activities Section 3 provides information on the network including its historical development, changes in 1984/85 and gives highlights on construction and operation of the network over the past year The section concludes with a summary of network planning and evaluation activities as conducted by the Hydrology Division of WRB

Section 4 provides financial information on network costs and the shareable portion for each party Section 5 a new section has been included to better inform agencies of anticipated issues and activities

2 0 COMMITTEE ACTIVITIES

The Co-ordinating Committee met on June 5 1984 and on January 23 1985 Regular on-going items of business included the preparation and review of Schedules A and D and the planning and implementation of the annual construction and maintenance program Other items of special significance included

- -detailed review of federal and federal/provincial stations regarding classifications according to new guidelines for classification of stations
- -the need for artificial controls at certain stations to improve the quality of records
- -design fabrication and evaluation of a larger look-in shelter made of aluminum
- -proposed terms of reference for a network planning and evaluation sub-committee
- -cost sharing of the new WRB data processing system
- -articles and clauses of Cost Sharing Agreement requiring interpretation and decisions because of technological advances
- -a contractor s study regarding sediment issues and data needs in Ontario

P I Campbell WRB/HQ attended the January 23 meeting and brought members up to date with some of the issues and decisions that will have to be made on a national basis in the future because of the implementation of new technology

Several members of the Ontario Committee also attended the National Co-ordinating Committee in Winnipeg on February 6 1985 Items of interest to the Ontario Committee included the Compendium of Standardized Practices Water Quantity Surveys which covers interpretations and administrative procedures used by Co-ordinating Committees in implementing the Water Quantity Survey Agreements Options for the cost-sharing of the new WRB mini-computer system were also explained and members were advised of clauses in the Agreement which require review, interpretation and possible change because of new technology

There was one change to the membership of the Ontario Co-ordinating Committee Mr Lloyd Logan was named as replacement for Mr Jim Eddie who served as an interim member for the Ontario Ministry of the Environment

Official minutes of all meetings are available from the Guelph office, WRB

3 0 HYDROMETRIC AND SEDIMENT NETWORKS

3 1 History

Figure 3 shows the number of gauging stations by category for each year over the past decade Included are stations operated by the Manitoba District in N W Ontario As of April 1 1975, there were 414 stations including 72 stations operated by the Manitoba District By April 1 1984 the network had grown to 449 stations of which 70 were operated by the Manitoba District Over the same period contributed data stations have increased from 71 to 101 This increase is largely due to the Tides and Water Level stations which are operated by WRB on behalf of the Department of Fisheries and Oceans and which are now included in the Environment Canada data publications

The number of sediment stations has ranged between 12 and 19 over the 10 year period ending April 1 1984

3 2 Network Changes During 1984/85

During 1984/85 9 gauging stations were added and 8 were discontinued The Manitoba District also discontinued operation of stations at 21 sites at experimental lakes in the N W Ontario network in the Kenora area Data from these stations will now be contributed by the Freshwater Institute of the Department of Fisheries and Oceans

It is also noteworthy that the 1984 Surface Water Data Publication for Ontario will include an additional contributed data station on the Great Lakes system - 02HA019

A network review of sediment stations resulted in a number of seasonal and miscellaneous stations being added to provide better coverage in Southern Ontario Twenty-seven such stations were added and 3 discontinued during 1984/85

Figures 1 and 2 and Appendix C show the network changes for this reporting period for the entire Ontario network

FIGURE 1

NORTHERN ONTARIO* AREA NETWORK
CHANGES 1 APRIL 1984 TO 31 MARCH 1985

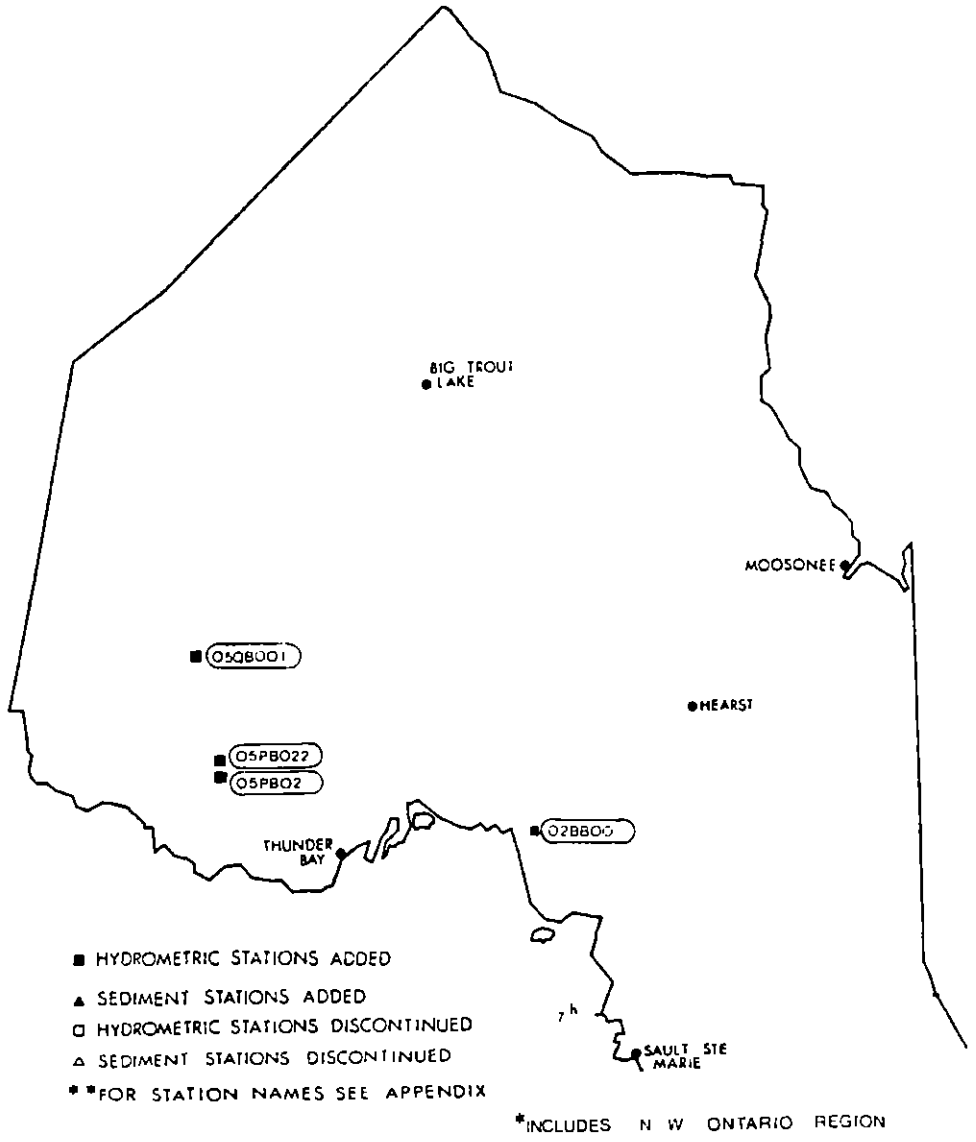
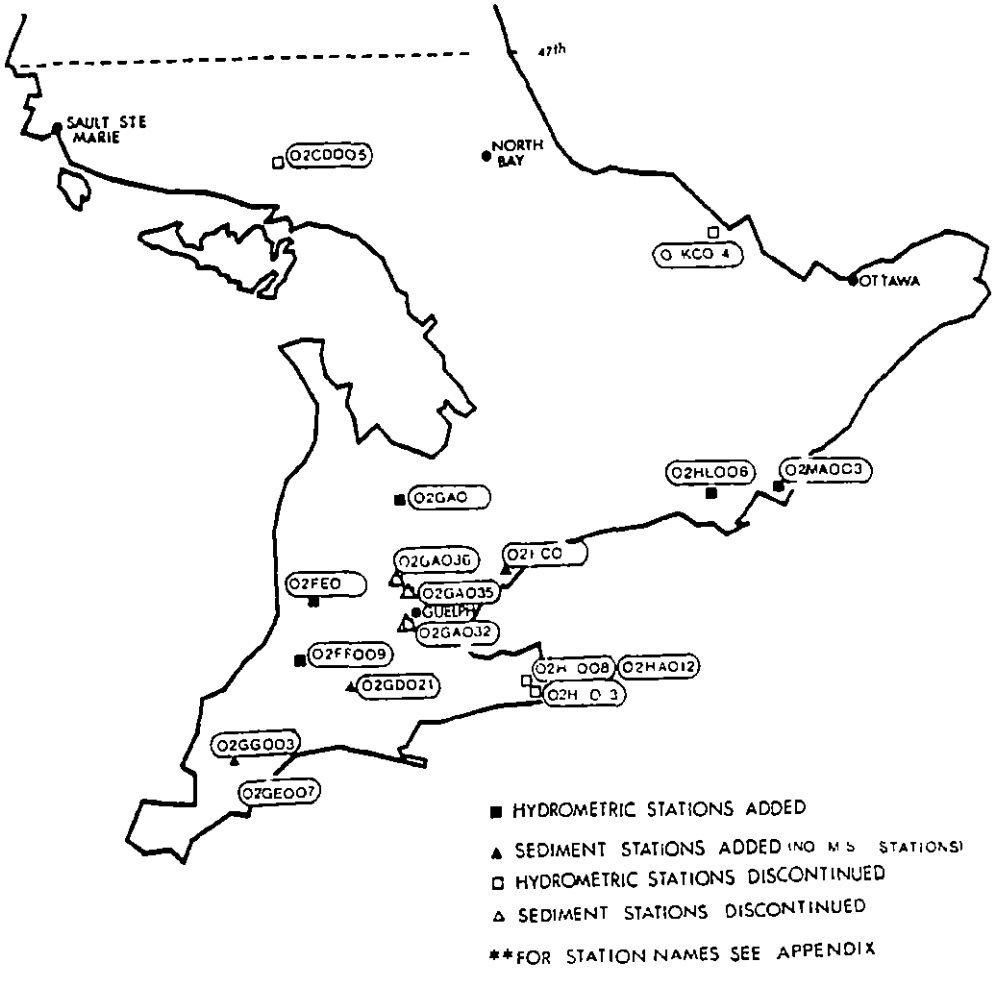
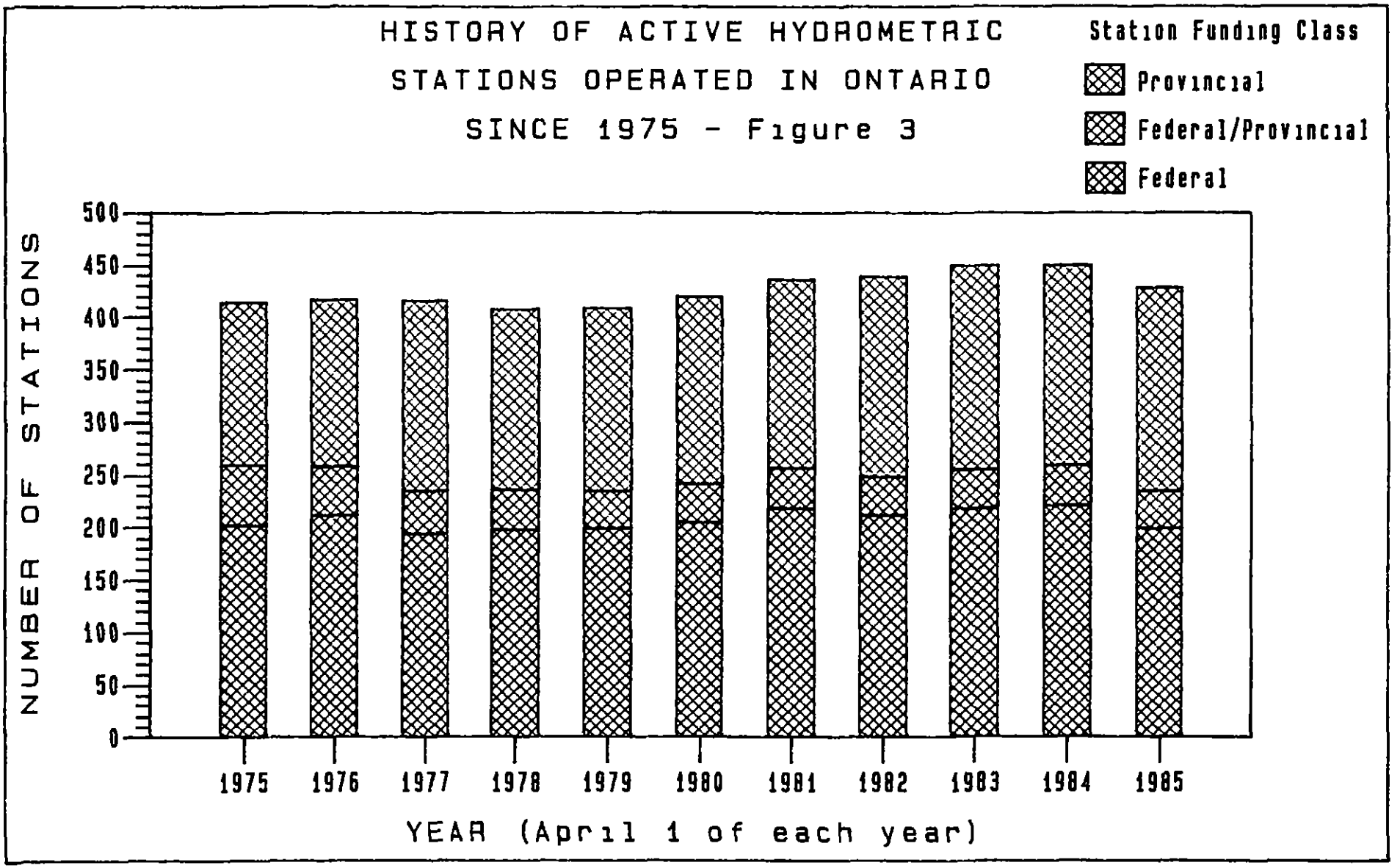


FIGURE 2

SOUTHERN ONTARIO AREA NETWORK
CHANGES 1 APRIL 1984 TO 31 MARCH 1985




HISTORY OF ACTIVE HYDROMETRIC
STATIONS OPERATED IN ONTARIO
SINCE 1975 - Figure 3
Station Funding Class
Provincial
Federal/Provincial
Federal
NUMBER OF STATIONS
500
450
400
350
300
250
200
150
100
50
0
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
YEAR (April 1 of each year)

3 3 Network Construction and Maintenance

The Water Resources Branch Ontario Region Construction Team again had a heavy workload during 1984/85 in carrying out projects in the following categories

(a) Field Investigations

This category includes reconnaissance surveys preparation of plans meetings and correspondence to obtain approval to construct hydrometric/sediment installations on private or public land or to investigate problems and take appropriate remedial action at existing stations During the year 20 such investigations were conducted

(b) New Construction

This category includes installations of stilling wells intakes instrument shelters artificial controls cableways access roads and instrumentation Such construction is associated with new stations or the relocation of existing stations The following projects in this category were undertaken in 1984/85

New Stations		Classification
02GA001	Grand River near Dundalk	PROV 2-MOE
02FF009	Ausable River near Exeter	PROV 2-MOE
02BB004	Cedar Creek near Hemlo	PROV 1-MOE
02HL006	Parks Creek near Latta	PROV 1-MNR

(c) Upgrading of Stations

This construction activity includes construction of controls erection of larger shelters to house more sophisticated instruments installation of electrical and telephone service at existing stations installations of sediment sampling equipment and other appurtenances Generally such projects are aimed at improving quality of data Ten projects were carried out in this category

(d) Maintenance

General maintenance projects were carried out at a number of stations and included such work as repair of shelter roofs stabilization of banks replacement of doors and repairs to cableways

Table D 5 in Appendix D summarizes the construction costs during 1984-85 for the portion of the Ontario network operated by the WRB Ontario Region The total costs of the construction program undertaken by the Guelph WRB Office was $102,169 which includes labour materials and equipment supplied by other agencies Including projects undertaken in Ontario by the Winnipeg office the total cost of the program in Ontario was $205,000 The cost to the Province for provincially funded projects was $97 063 which included $75 157 recovered by WRB

3 4 Network Operations

During the reporting period, 368 37 equivalent station years of data were collected by the operating party WRB, Ontario Region This is an increase of 4 90 equivalent station years of data from 1983/84

Field operations met objectives and all computations were completed by the May 1 target date and forwarded to Headquarters for publication purposes The new DEC PDP1144 mini-computer system for the WRB Guelph Office came on-line in June 1984 and a number of in-house training sessions were held throughout the year for all staff

The Federal DCP Expansion Program at remote sites in Northern Ontario continued with the purchase of 7 Bristol DCP's Due to the late delivery of this equipment only the DCP for the Attawapiskat River below Attawapiskat Lake could be installed prior to March 31 1985 The remaining 6 DCP s will be installed during May/June 1985 Also the DCP's delivered late in 1983/84 were installed as planned during May/June 1984 at 5 sites (Winisk River below Asheweig River Tributary, Brightsand River at Moberly Lake Shamatttawa River at Outlet of Shamattawa Lake Ekwan River below North Washagami River and Attawapiskat River below Muketei River) A successful 2-day hands-on training program on the installation operation and maintenance of Bristol DCP s was provided to all Guelph hydrometric staff on February 6 and 7 by representatives from Bristol Aerospace Winnipeg and WRB Headquarters

Special discharge measurements were undertaken for the Ganaraska River Conservation Authority on Baltimore Creek and for the O M N R Algonquin Region in April 1984 to assist in the development of stage-discharge relationships at various locations

The WRB commenced receiving flood advisories and warnings sent out by the O M N R s Streamflow Forecast Centre located in Toronto via the ENVOY 100 electronic mail/messaging service This system proved to be most useful in the planning and dispatching of field staff to cover high flow events throughout the province

The Envoy 100 system was very useful in monitoring the spring freshet which occurred in Southern Ontario commencing February 22 1985 when above normal temperatures and continuous rainfall on a ripe snowpack caused major flooding in a number of areas in Southern Ontario particularly in the South Western sector on February 24-26 Major flooding occurred in Chatham Dresden, and Wallaceburg when the Sydenham River reached water levels not seen since 1968 The Thames River continued to peak downstream at Thamesville until February 27 A number of historic high discharge measurements were obtained by the WRB staff during this period in this area Also in the Oakville-Niagara area several historic high discharge measurements were taken on Spencer Creek (2) the Welland River (1), Three Mile Creek (1), and Redhill Creek (1) In the Toronto area historic measurements were obtained on February 23-24 on the West Humber River at Highway 7 and the Rouge River near Markham

The instrumentation Preventative Maintenance Program was continued in 1984/85 at a number of stations operated from the Guelph office This program carried out by the Equipment Repair Unit commenced in 1982 in an effort to reduce the amount of data loss due to equipment malfunction

The WRB participated in September and October in a sediment monitoring program required to assess the impact of the Goderich Harbour Expansion project using the HYDAC 200 system The focal point of the program was on sediment loadings from the Maitland River and deposition at the river mouth The WRB used the HYDAC 200 equipment to sound the area and take bedload samples Potential impacts from the expansion project relate to ice jamming flooding and increased sedimentation at the mouth of the Maitland River

During Environment Week June 3-9, the WRB hosted a display at a North Bay shopping mall to inform the public of WRB and Departmental activities Approximately 3 400 people visited the display which focused on the federal/provincial cost shared hydrometric/sediment data collection program The exhibit was widely covered by the news media and over 2 300 brochures and booklets were distributed

During 1984/85 the WRB experienced a large turnover of hydrometric staff through retirement and resignation A number of positions were filled on an acting basis and through term staffing During the coming year staffing action is expected to be completed for 5 key positions which will once again bring to *Water Survey of Canada Division up to strength*

3 5 Network Evaluation and Planning

The purpose of network evaluation is to determine the effectiveness and efficiency of an existing network in terms of meeting present and future data requirements Effectiveness is a measure of how well the network can meet the data requirement, while efficiency is measure of the cost to produce the data The purpose of network planning is to develop a plan for enhancing the overall effectiveness and efficiency of a network The plan could include construction/operation of new stations and/or modified/discontinued operation of existing stations

Increased emphasis was placed on network evaluation and planning during 1984/85 Table 1 summarizes the most significant activities

It is anticipated that the emphasis on network evaluation and planning will continue to increase in 1985/86 An important activity will be establishing the proposed Network Evaluation and Planning Sub-Committee of the Canada/Ontario Co-ordinating Committee The purpose of the Sub-Committee will be to provide support to the Co-ordinating Committee on the technical and scientific aspects of network evaluation and planning in the Province Other major activities which are planned for 1985/86 include completion of the two studies in Table 1 preparation of a short term network plan preparation of a strategy for the systematic evaluation and planning of the network a review of Federal interest in Provincial stations and a pilot study of the efficiency of network operations

TABLE 1
SUMMARY OF NETWORK EVALUATION AND PLANNING
ACTIVITIES DURING 1984/85

Network	Activity	Carried Out By	Status On March 31/85	Results/Progress
Ontario, excluding Manitoba District stns.	Stn. Classification Review (based on Nat'l Guidelines)	WRB/Ontario, MNR, MOE, OH	Complete	Identified major use(s) of data for each station decrease of 6 F sts. (compared with Apr.1/84 network), increase of 1 F/P stn. and 3 P stns.
F, F/P stns. in Ontario excluding Manitoba District stns.	Stn. Priorization Study	WRB/Ontario	Continuing	Relative importance of each stn. for meeting present and future commitments is being assessed.
Manitoba District Stn. in N.W. Ontario	Evaluation and Plan Study	WRB/Ontario	Continuing	Present and future data requirements are being defined, ability of the present network to meet the requirements is being assessed and a plan for filling any data-information gaps is being prepared.
Albany River Basin or 2 yrs.	Stn. Evaluation/Plan	WRB/Ontario	Complete	Recommendation to discontinue Albany River below Achapi Lake Stn. (F4) in 1
Moosonee Area	Stn. Evaluation/Plan	WRB/Ontario MOE, MNR, OH	Complete	Recommendation to discontinue Kwataboahegan River near the Mouth stn. (F4)
Newcastle Area	Stn. Evaluation	WRB/Ontario MOE, MNR, OH	Complete	Recommendation to continue Wilmot Creek near Newcastle Stn. (F3)
Ontario	Network Evaluation and Planning Sub-Committee	WRB/Ontario	Continuing	Terms of reference were presented to Co-ordinating Committee for review.

4 0 NETWORK OPERATING COSTS

Costs to operate the network, identified as operational costs in Schedule B of the Agreement, were computed based on actual costs provided in financial statements or recorded for the purpose of computing shareable costs The per station cost based on actual equivalent station years of data was $3 200 for conventional stations and $6 741 for remote stations Table 2 gives a comparison of the actual costs for 1984/85 to estimated costs for 1984/85 and actual costs for 1983/84

TABLE 2
Comparison of Unit Costs for Operating Water Quantity Stations

	83/84 Actual Costs	84/85 Estimated Costs	84/85 Actual Costs	% increase (decrease) from 83/84
Conventional	$3 124	$3,360	$3 200	+ 2 43%
Remote	$6 335	$8 320	$6 741	+ 6 4%

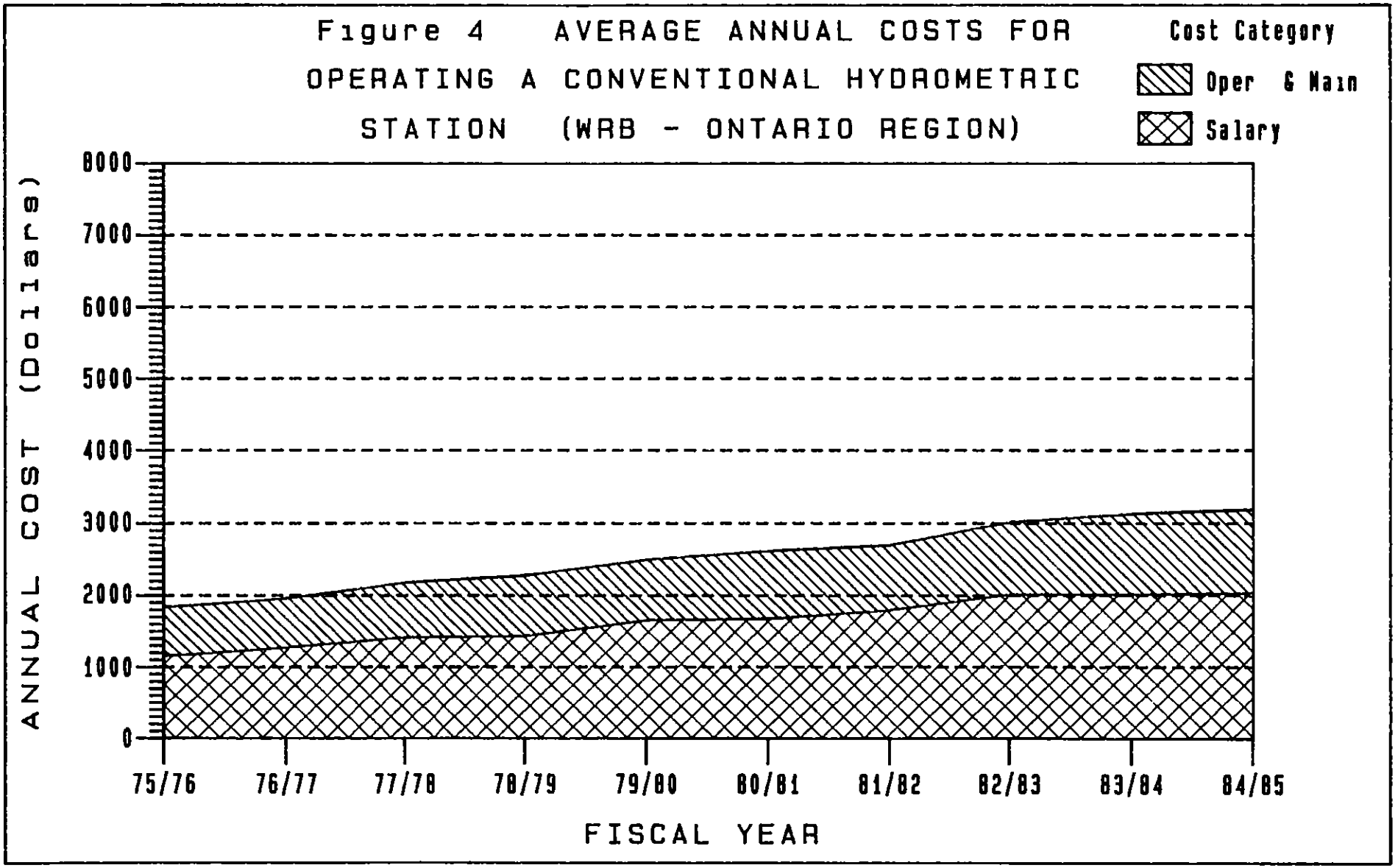
During 1983/84 field trips to conventional and remote stations were reduced to minimize increased costs however field trip schedules were considered "normal' for 1984/85 with the exception of one fly-in trip from the North Bay office being cancelled Other contributing factors to the small increase in costs for 1984/85 were the restraint on salary increases an unusually high number of vacant positions and an increase in equivalent station years of data with no proportional increase in person years

Figures 4 and 5 give a comparison of unit costs per station for remote and conventional stations since 1975 One of the aims of the DCP installation program is to reduce operating costs for remote stations which are in the order of two times a conventional station

The total shareable cost for operating and constructing the hydrometric/sediment network in Ontario for 1984/85 was $1 768 000 of which the provincial share was $766,508 or 43 4% Payments according to Schedule D resulted in credits of $11 323, $23 263, and $3,571 for the Ministry of Environment Ministry of Natural Resources and Ontario Hydro respectively Table 3 gives a summary of cost comparisons by agency Appendix D provides tables which derive the cost data for each agency Additional cost information is also provided in Appendix E which gives tables for the National Report

Over and under payments by the province were last reconciled up to and including the year 1983/84 Table 4 summarizes the over and under payments since 1975 and indicates when payments were balanced

Figure 4 AVERAGE ANNUAL COSTS FOR OPERATING A CONVENTIONAL HYDROMETRIC STATION (WRB - ONTARIO REGION)



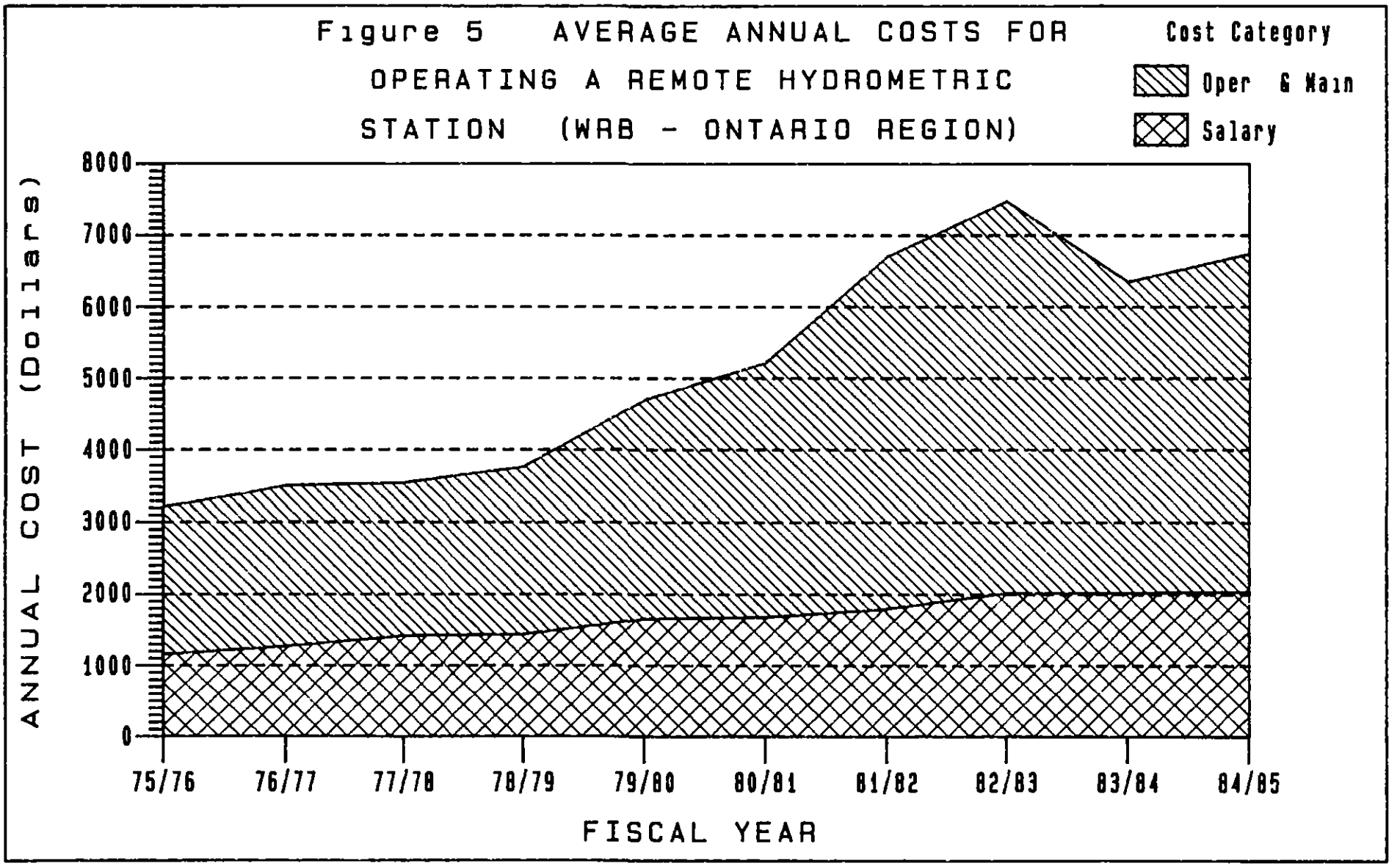


Figure 5 AVERAGE ANNUAL COSTS FOR OPERATING A REMOTE HYDROMETRIC STATION (WRB - ONTARIO REGION)
Cost Category
Oper & Main
Salary
ANNUAL COST (Dollars)
8000
7000
6000
5000
4000
3000
2000
1000
0
75/76
76/77
77/78
78/79
79/80
80/81
81/82
82/83
83/84
84/85
FISCAL YEAR

TABLE 3

Summary of 1984/85 Cost Comparisons by Agency

	Schedule D	Recovered and Paid during 84/85	Actual Cost	Diff (cost recovered - actual cost)
(a) Hydrometric Operations				
1 MNR	$520 640	$520 640	$495 017	- $25 623
2 MOE	166,720	166 720	155,397	- $11 323
3 OH	37 680	37 680	34,109	- $ 3,571
4 WRB (to OH)	6,280	6,280	6,280	- $ 0
Sub totals	$731,320	$731,320	$690,803	- $40,517
(b) Sediment				
1 MNR	$ 1,500	$ 1,500	$ 3,860	+ $ 2,360
Sub Totals	$ 1 500	$ 1 500	$ 3 860	+ $ 2 360
(c) Construction				
1 MNR	$105 500	$ 43 535	$ 43 535	0
2 MOE	23,500	31,622	31,622	0
Sub totals	$129,000	$ 75,157	$ 75,157	0
(d) Specialized Equipment				
1 MNR	$ 12 800	$ 2 754	$ 2 754	0
2 OH	600	214	214	0
Sub totals	$ 13,400	$ 2,968	$ 2,968	0
TOTALS	$875,220	$810,945	$772,788	-$ 38,157

Total Actual Cost MNR - $545,166
Total Actual Cost MOE - $187 019
Total Actual Cost OH - $ 34,323
Total Actual Cost WRB Paid to OH - $ 6,280
TOTAL $772,788

TABLE 4

SUMMARY OF (OVER/UNDER PAYMENTS) FROM 1975/76 TO DATE

Hyd m t l			(1)	(2)		(3)			(4)	
Operations	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85
MNR	$6 071	$5 008	$ 542	$2 058	$4 667	$28 692	$19 537	$28 334	$ 1 072	$25 623
MOE	$2 293	$1 275	$3 190	$3 493	$4 028	$ 8 505	$ 3 286	$ 2 393	$11 617	$11 323
OH	$ 354	$1 427	Nil	$ 300	$ 354	$ 1 506	$ 574	$ 745	$ 2 745	$ 3 571
S d ment										
MNR	$ 4	$ 431	$ 523	$ 24	$1 329	$ 2 603	$ 4 454	$ 1 749	$ 1 142	$ 2,360
									TOTAL	$38,157

NOTE i dic t s th t ct al costs are m re than the f ds r d
indicates that actual cost l s than the f nds re overed

(1) Ov r and nder payme t fo 1975/76 1976/77 nd 1977/78 were reconciled on the 1978/79 second quart r invoices

(2) O er a d d p yme ts for 1978/79 w co l d o the second quarter billing for 1979/80

(3) O r nd d r payment for 1979/80 d 1980/81 were reconciled on th s d q t b 11 g f 1982/83

(4) Over nd nd p ym t f r 1981/82 1982/83 d 1983/84 w e r conc led on the second q rter billing f 1984/85

5 0 FUTURE ACTIVITIES AND ISSUES

Fiscal restraint and pressure to reallocate resources to other high priority programs will require that planning and operation of both the hydrometric and sediment networks continue to proceed with economy and effectiveness in mind Network planning and evaluation activities will continue to receive increased emphasis through the application of analytical and interpretative techniques and the use of information transfer methods Coupled with the continuous review of network operations this approach will give confidence and demonstrate that the data collection program is providing the right type of information at the right place and at the right time in the most cost effective way to meet data user needs The proposed Sub-Committee for Network Evaluation and Planning will be instrumental in applying a detailed and consistent evaluation of proposed and existing stations and in planning the network regionally and provincially to ensure gaps and redundancies are identified and addressed

The current review of the WRB Sediment Surveys through contract studies in the various regions will be of importance in identifying issues and data needs relative to this program In Ontario Phase II of the study will be completed in 1985/86 and will feature a workshop of data users to assist in identifying program needs The Co-ordinating Committee will be involved in responding to and implementing recommendations arising from these studies

New technology with respect to instruments equipment, and techniques, will continue to be assessed and implemented to improve data quality and services to data users The Committee must be prepared to respond to these technological advances as well as policies and programs and administrative changes that may evolve from new technology As an example it is foreseen that significant strides will be made in the provision of real time data services which will have obvious benefits to network operations and to data users However policies will have to be developed and decisions taken on level of service provided cost sharing and interpretation of responsibilities of the parties relative to the existing agreement Consultation with all parties will be thorough at both the national and regional level so that Committee members will be up to date on the issues and be able to advise their respective Administrators accordingly

Finally a number of reviews and exercises are underway at the federal level which may impact on the hydrometric and sediment data collection programs Specifically these include the Pearse Inquiry on Federal Water Policy the Nielsen Task Force Review of Government Programs and a review of options for delivery of the Water Quantity Data Program Again the Committee members expect to play a role in advising their Administrators of recommendations that will impact both positively and negatively on the data collection program

APPENDIX A

SCHEDULE A" TO MEMORANDUM

OF AGREEMENT BETWEEN

GOVERNMENTS OF CANADA

AND

ONTARIO FOR WATER QUANTITY SURVEYS

1984/85

SCHEDULE A

WATER QUANTITY SURVEY STATIONS

A complete listing of active water quantity survey stations in the province of Ontario is included in the Schedule The list designates each water quantity survey station as a Federal Federal-Provincial or Provincial interest and identifies the operating party and the agency or agencies funding the operation of the station

The categories for the listing according to guidelines implemented April 1 1984 are as follows

Federal 1	- Federal Departmental Programs
Federal 2	- Interprovincial Waters
Federal 3	- International Waters
Federal 4	- National Water Quantity Inventory
Federal-Provincial 1	- Federal-Provincial Agreement
Federal-Provincial 2	- River Basin Management
Federal-Provincial 3	- Regional Water Quantity Inventory
Provincial 1	- Provincial Departmental Programs
Provincial 2	- Specific Purpose Monitoring Requirement

All of the above stations are operated by the Water Resources Branch Environment Canada with the exception of 6 water level stations that are operated by Ontario Hydro The Schedule also includes contributed data stations i e stations operated by either WRB (DFO Tides and Water Level stations) or by another agency

DATE APR 01 1984

CANADA-ONTARIO HYDROMETRIC COST-SHARE AGREEMENT 1984/1985
WATER RESOURCES BRANCH ONTARIO REGION

GAUGE INFORMATION
H=WATER LEVEL STATION
M=MANUAL STATION
P=POWERPLANT RATING
Q=DISCHARGE STATION
R=RECORDING STATION
S=SUMMATION OF FLOW

DATA MEASURED
N=NORTHERN AND REMOTE STATIONS
S=SEDIMENT SAMPLING
Q=WATER QUALITY SAMPLING
T=CONT. WATER TEMPERATURE
M=TELEMARK
L=SATELLITE STATION
D=TELEPHONE DATA LOGGERS

TECHNICIAN'S STATION RESPONSIBILITY

BOB MACE'S AREA	REG LEBLANC'S AREA	JIM RITCHIE'S AREA	NORTH BAY AREA	OTTAWA AREA	THUNDER BAY AREA
10=BOB MACE	20=REG LEBLANC	30=JIM RITCHIE	40=PAT RYAN	50=DOUG ROWE	60=ROSS BISHOP
11=J.FIRMAN	22=VACANT	31=D.LAWLOR	41=D.COPELAND	51=GLEN WIGGINS	61=B. PESSAH
13=F.PELLEY	23=K.MUNN	32=G.MELENDY	42=JOHN DOUCET	52=BRIAN MAGEE	62=KEN MILLER
14=M.ABRAHAMSE	24=B.REES	33=F.RADING	43=TED WAUGH	53=J.MYKE	
		34=B SMITH	44=D.JACKSON		

CONTRIBUTOR CODE INDEX

00=WINNIPEG DISTRICT STATIONS
70=ABITIBI-PRICE INC (NORTH BAY)
73=EDDY FOREST PRODUCTS LIMITED (NORTH BAY)
76=SPRUCE FALLS POWER AND PAPER CO. LTD. (NORTH BAY)
77=GREAT LAKES POWER COMPANY LTD.
78=INTERNATIONAL NICKEL CO. OF CANADA LTD. (NORTH BAY)
80=ONTARIO HYDRO (NORTH BAY)
81=ONTARIO HYDRO (GUELPH - RUN MANUAL PROGRAM)
82=ONTARIO HYDRO (GUELPH - PUNCH OUTPUT CARDS)
83=ONTARIO HYDRO (THUNDER BAY)
84=PARKS CANADA TRENT-SEVERN WATERWAY (PUNCH OUTPUT CARDS)
85=INTERNATIONAL LAKE SUPERIOR BOARD OF CONTROL (PUNCH OUTPUT CARDS)
86=INT. ST.LAWRENCE BOARD OF CONTROL (CORNWALL) (PUNCH OUTPUT CARDS)
87=COORDINATING COMMITTEE ON GREAT LAKES (BURLINGTON) (PUNCH OUTPUT CARDS)
88=M.E.D.S. - TIDES AND WATER LEVELS, OTTAWA (VIA WRB HQ'S)
90=ONTARIO MINISTRY OF ENVIRONMENT (PROVIDES OUTPUT CARDS AND PRINTOUTS)
91=ORILLIA LIGHT AND POWER (PUNCH OUTPUT CARDS)
92=DEPARTMENT OF PUBLIC WORKS (PUNCH OUTPUT CARDS)

FUNDING CODES FOR STATIONS

AA =FEDERAL 1,FED.DEPT.PROGRAMS,OPERATED BY FED(WSC)
BA =FEDERAL 2,INTERPROV. WATERS,OPERATED BY FED(WSC)
CA =FEDERAL 3,INTERNATL. WATERS,OPERATED BY FED(WSC)
DA =FEDERAL 4,NATIONAL WATER QUANTITY INVENTORY,
OPERATED BY FEDERAL (WSC)
FBC=FED-PROV 1,OPERATED BY PROV. ONT.HYD.
FAC=FED-PROV 1,OPERATED BY FED(WSC), ONT.HYD.
FAD=FED-PROV 1,OPERATED BY FED(WSC), OMOE
FAE=FED-PROV 1,OPERATED BY FED(WSC), OMNR
GA?=FED-PROV 2,(NOT APPLICABLE AT THIS TIME)
HA?=FED-PROV 3,(NOT APPLICABLE AT THIS TIME)
IAC=PROVINCIAL 1,OPERATED BY FED(WSC), ONT.HYD.
IAD=PROVINCIAL 1,OPERATED BY FED(WSC), OMOE
IAE=PROVINCIAL 1,OPERATED BY FED(WSC), OMNR
IAF=PROVINCIAL 1,OPERATED BY FED(WSC), OMOE/OMNR
IAG=PROVINCIAL 1,OPERATED BY FED(WSC), ONT.HYD./OMNR
JA?=PROVINCIAL 2,(NOT APPLICABLE AT THIS TIME)
AAS=FED DEPT PROGRAMS,OPERATED BY FED(WSC),SEDIMENT
IAS=PAID BY PROVINCE,OPERATED BY FED(WSC), SEDIMENT
RBC=CONTRIBUTED DATA,OPERATED BY PROV. ONTARIO HYDRO
RBD=CONTRIBUTED DATA,OPERATED BY PROV. OMOE
RDP=CONTRIBUTED DATA,OPERATED BY PRIVATE AGENCY
RAT=CONTRIBUTED DATA,OPERATED BY FED(WSC), MEDS/CHS
REO=CONTRIBUTED DATA,OPERATED BY FED(OTHER),OTH.FED.

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 1. FEDERAL DEPARTMENTAL PROGRAMS. OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE DATA	FUND.CD.	STATION NAME	UNITS	NO.
04ME003	27500.0	G	41	QR N	AA	ABITIBI RIVER AT ONAKAWANA		1
04HA001	19000.0	G	43	QR NS L	AA	ALBANY RIVER NEAR HAT ISLAND MISC. SED.		2
02JE019	1130.0	G	41	QR	AA	AMABLE DU FOND R AT SAMUEL DE CHAMPLAIN P.P.		3
04FB001	24200.0	G	61	QR N	AA	ATTAWAPISKAT RIVER BELOW ATTAWAPISKAT LAKE		4
04FC001	36000.0	G	43	QR NS	AA	ATTAWAPISKAT R. BELOW MUKETEI R. MISC. SED.		5
05QE013	0.0	W	00	HR N	AA	BALL LAKE AT BALL LAKE LODGE (S)		6
04CE001	0.0	G	61	HM N	AA	BIG TROUT LAKE AT TROUT LAKE		7
02EC002	1520.0	G	24	QR M	AA	BLACK RIVER NEAR WASHAGO		8
02JC008	1780.0	G	41	QR L	AA	BLANCHE RIVER ABOVE ENGLEHART		9
04GB005	1170.0	G	62	QR N	AA	BRIGHTSAND RIVER AT MOBERLY LAKE		10
02HF003	1270.0	G	23	QR M	AA	BURNT RIVER NEAR BURNT RIVER		11
02GA036	17.9	G	14	QR S	AA	CANAGAGIGUE CREEK NEAR FLORADALE		12
02MA002	394.0	G	52	QR M	AA	CATARAQUI R. AT CHAFFEYS LOCKS (OCT15-MAY15)		13
05QE008	1690.0	W	00	QR N	AA	CEDAR RIVER BELOW WABASKANG LAKE		14
05QC001	4920.0	W	00	QR M	AA	CHUKUNI RIVER NEAR EAR FALLS		15
02HK003	1990.0	G	23	QR M	AA	CROWE RIVER AT MARMORA		16
02GA035	27.7	G	14	QR S	AA	EAST CANAGAGIGUE CREEK NEAR FLORADALE		17
02KA010	0.2	G	53	QR	AA	EAST TRIB.TO PERCH L INLET NO.2 NR CHALK RIVER		18
02HH001	241.0	G	23	QR	AA	EELS CREEK BELOW APSLEY		19
04EA001	10400.0	G	43	QR N	AA	EKWAN RIVER BELOW NORTH WASHAGAMI RIVER		20
02HD014	58.5	G	11	QM S	AA	FAREWELL CREEK AT OSHAWA (SED.FEB-MAY)		21
04CE002	4350.0	G	61	QR N	AA	FAWN RIVER BELOW BIG TROUT LAKE		22
02DD017	0.0	G	44	QM	AA	FRENCH RIVER AT CHAUDIERE DAM		23
02DD016	0.0	G	44	QM	AA	FRENCH RIVER AT PORTAGE DAM		24
02BF002	1160.0	G	42	QR QL	AA	GOULAIS RIVER NEAR SEARCHMONT		25
05QE015	0.0	W	00	HR N	AA	GRASSY NARROWS L. AT GRASSY NARROWS (S)		26
02HF002	1280.0	G	23	QR M	AA	GULL RIVER AT NORLAND		27
04KA002	133.0	G	41	QR	AA	HALFWAY CREEK AT MOOSONEE		28
02HD013	41.6	G	11	QR S	AA	HARMONY CREEK AT OSHAWA (SED.FEB-MAY)		29
04JA002	3780.0	G	43	QR	AA	KABINAKAGAMI RIVER AT HIGHWAY NO 11		30
05QB003	0.0	W	00	HR D	AA	LAC SEUL AT GOLDPINES		31
05QB002	0.0	W	00	HR M	AA	LAC SEUL AT HUDSON		32
02EC015	0.0	G	23	HR	AA	LAKE SIMCOE NEAR GAMEBRIDGE		33
05PD027	0.0	W	00	HR	AA	LAKE 114 NEAR KENORA(S)		34
05PD014	0.7	W	00	QR	AA	LAKE 114 OUTLET NEAR KENORA(S)		35
05QD021	0.0	W	00	HR N	AA	LAKE 223 NEAR KENORA (S)		36
05QD017	0.0	W		QR N	AA	LAKE 223 OUTLET NEAR KENORA(S)		37
05QD018	0.0	W		QR N	AA	LAKE 224 OUTLET NEAR KENORA(S)		38
05QD019	0.0	W		QR N	AA	LAKE 225 OUTLET NEAR KENORA(S)		39
05QD015	0.0	W	00	QR N	AA	LAKE 226 OUTLET NEAR KENORA(S)		40

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 1. FEDERAL DEPARTMENTAL PROGRAMS. OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE DATA	FUND.CD.	STATION NAME	UNITS	NO.
05QD008	0.5	W	00	QR N	AA	LAKE 227 OUTLET NEAR KENORA(S)		41
05QD009	0.0	W		HR N	AA	LAKE 227 NEAR KENORA(S)		42
05PD021	0.0	W	00	HR	AA	LAKE 239 NEAR KENORA		43
05PD023	3.6	W	00	QR	AA	LAKE 239 OUTLET NEAR KENORA		44
05PD024	0.0	W		QR	AA	LAKE 239 LOWER EAST INLET NEAR KENORA(S)		45
05PD025	0.0	W		QR	AA	LAKE 239 UPPER EAST INLET NEAR KENORA(S)		46
05PD015	7.2	W	00	QR	AA	LAKE 240 OUTLET NEAR KENORA		47
05QD022	0.0	W	00	HR	AA	LAKE 302 NEAR KENORA(S)		48
05QD023	0.0	W	00	QR	AA	LAKE 302 OUTFLOW NEAR KENORA (S)		49
05PD020	0.0	W	00	HR	AA	LAKE 303 NEAR KENORA(S)		50
05PD019	0.7	W	00	QR	AA	LAKE 303 OUTLET NEAR KENORA(S)		51
05PD018	0.0	W	00	HR	AA	LAKE 304 NEAR KENORA(S)		52
05PD017	2.3	W	00	QR	AA	LAKE 470 OUTLET NEAR KENORA		53
05PD028	0.0	W	00	QR	AA	LAKE 661 OUTLET NEAR KENORA (S)		54
02DD020	0.0	G	44	QM	AA	LITTLE FRENCH RIVER AT OKIKENDAWT ISLAND		55
02HC023	77.7	G	22	QR	AA	LITTLE ROUGE CREEK NEAR LOCUST HILL		56
05QE012	548.0	W		QR N	AA	LONG-LEGGED RIVER BELOW LONG-LEGGED LAKE		57
02JE020	909.0	G	41	QR	AA	MATTAWA RIVER BELOW BOUILLON LAKE		58
02EC013	0.0	G	24	QM	AA	MIDDLE SEVERN RIVER AT WASHAGO		59
04LJ001	8940.0	G	43	QR D	AA	MISSINAIBI RIVER AT MATTICE		60
02HH002	326.0	G	23	QR	AA	MISSISSAGUA RIVER BELOW MISSISSAGUA LAKE		61
02KF006	2900.0	G	52	QR D	AA	MISSISSIPPI RIVER AT APPLETON		62
04LG004	60100.0	G	41	QR S L	AA	MOOSE RIVER ABOVE MOOSE RIVER		63
04GF001	1890.0	G	43	QR N	AA	MUSWABIK RIVER AT OUTLET OF MUSWABIK LAKE		64
02BF005	11.5	G	42	QR	AA	NORBERG CREEK(SITE A) ABOVE BATCHAWANA RIVER		65
02BF012	1.1	G	42	QR	AA	NORBERG CREEK(SITE F)AT OUTLET OF BATCHAWANA L		66
02BF009	2.0	G	42	QR	AA	NORBERG CREEK (SITE E) BELOW BATCHAWANA LAKE		67
02BF007	5.4	G	42	QR	AA	NORBERG CRK.(SITE C)AT OUTLET OF LIT. TURKEY L		68
02BF006	8.6	G	42	QR	AA	NORBERG CREEK(SITE B)AT OUTLET OF TURKEY LAKE		69
02BF008	4.0	G	42	QR	AA	NORBERG CREEK (SITE D) BELOW WISHART LAKE		70
02CD008	2.0	G	42	QR	AA	NORDIC MINE TAIL.DIT.(1) NR EL.LK.(APR1-NOV1)		71
02CD009	2.7	G	42	QR	AA	NORDIC MINE TAIL.DIT.(2) NR EL.LK.(APR1-NOV1)		72
02CD010	3.0	G	42	QR	AA	NORDIC MINE TAIL.DIT.(3) NR EL.LK.(APR1-NOV1)		73
02EA010	149.0	G	43	QR Q T	AA	NORTH MAGNETAWAN RIVER ABOVE PICKEREL LAKE		74
05PD022	0.6	W	00	QR	AA	NORTHWEST TRIBUTARY TO LAKE 239 NEAR KENORA(S)		75
02GA032	2.5	G	23	QR S	AA	OAC FARM GAUGE NO 5 AT GUELPH		76
02HJ002	7360.0	G	23	QR	AA	OTONABEE RIVER AT LAKEFIELD		77
02KF005	90900.0	G	50	QR M	AA	OTTAWA RIVER AT BRITANNIA		78
02LB010	0.0	G	51	HR S	AA	OTTAWA RIVER AT CUMBERLAND		79
02JE011	0.0	G	41	HR M	AA	OTTAWA RIVER AT LAKE TIMISKAMING		80

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 1. FEDERAL DEPARTMENTAL PROGRAMS. OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02JE013	0.0	G	41	HR	M	AA	OTTAWA RIVER AT MATTAWA		81
02KA003	7.3	G	53	QR	T	AA	PERCH LAKE OUTLET NEAR CHALK RIVER		82
02KA004	0.9	G	53	QR		AA	PERCH LAKE INLET NO 1 NEAR CHALK RIVER		83
02KA005	3.6	G	53	QR		AA	PERCH LAKE INLET NO 2 NEAR CHALK RIVER		84
02KA006	0.8	G	53	QR		AA	PERCH LAKE INLET NO 3 NEAR CHALK RIVER		85
02KA007	0.2	G	53	QR		AA	PERCH LAKE INLET NO 4 NEAR CHALK RIVER		86
02KA008	0.1	G	53	QR		AA	PERCH LAKE INLET NO 5 NEAR CHALK RIVER		87
02KB001	4120.0	G	53	QR	M	AA	PETAWAWA RIVER NEAR PETAWAWA		88
02LA012	3120.0	G	52	QR	M	AA	RIDEAU RIVER BELOW MANOTICK		89
02LA011	1920.0	G	52	QR	M	AA	RIDEAU RIVER BELOW MERRICKVILLE		90
02LA004	3830.0	G	51	QR	D	AA	RIDEAU RIVER AT OTTAWA		91
02LA005	1290.0	G	52	QR	M	AA	RIDEAU R. ABOVE SMITH FALLS OCT 1 - APR 30		92
05QE011	0.0	W	00	HR	N	AA	SALVESEN LAKE NEAR OUTLET		93
04CA001	0.0	G	62	HM	N	AA	SANDY LAKE AT SANDY LAKE		94
05QE014	0.0	W	00	HR	N	AA	SEPARATION L. AT WALSTEN.S OUTPOST CAMP (S)		95
02EC006	0.0	G	24	QM		AA	SEVERN RIVER AT BIG FALLS		96
04CC001	94300.0	G	61	QR	NSD	AA	SEVERN RIVER AT LIMESTONE RAPIDS MISC. SED.		97
02EC007	0.0	G	24	QM		AA	SEVERN RIVER AT LITTLE FALLS		98
02EC014	5310.0	G	24	QR	L	AA	SEVERN RIVER ABOVE WASDELL FALLS		99
02EC005	0.0	G	24	QM		AA	SEVERN RIVER AT WASHAGO		100
04JC003	3290.0	G	43	QR		AA	SHEKAK RIVER AT HIGHWAY NO 11		101
02LB005	3810.0	G	51	QR	S M	AA	SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS		102
02CA003	0.0	G	42	HR		AA	ST MARYS RIVER NEAR GARDEN RIVER		103
05QA004	4740.0	W	00	QR	N	AA	STURGEON RIVER AT MCDOUGALL MILLS		104
05QE009	1530.0	W	00	QR	N	AA	STURGEON RIVER AT OUTLET OF SALVESEN LAKE		105
02LA017	357.0	G	52	QR	M	AA	TAY RIVER BELOW BOB'S LAKE		106
02LA016	786.0	G	52	QR	M	AA	TAY RIVER AT PORT ELMSLEY		107
02HA016	4.3	G	13	QR		AA	THREE MILE CREEK AT MOUNT HOPE		108
02HK004	12000.0	G	23	QR	M	AA	TRENT RIVER AT GLEN ROSS		109
02HK002	9090.0	G	23	QS		AA	TRENT RIVER AT HEALEY FALLS (COMP.STA.)		110
02KA009	2.8	G	53	QR		AA	TRIB. TO PERCH LAKE INLET NO.2 NR CHALK RIVER		111
05QC003	2370.0	W	00	QR		AA	TROUTLAKE RIVER BELOW BIG FALLS		112
05QD006	6370.0	W	00	QR	M	AA	WABIGOON RIVER NEAR QUIBELL		113
02HA015	2.0	G	13	QR		AA	WELLAND RIVER NEAR MOUNT HOPE		114
04DC001	50000.0	G	61	QR	NS	AA	WINISK R. BELOW ASHEWEIG R. TRIB. MISC. S		115
05PF051	0.0	W	00	HR	N	AA	WINNIPEG RIVER ABOVE BOUNDARY FALLS (S)		116
05PE021	0.0	W	00	HR		AA	WINNIPEG R. AT WHITEDOG INDIAN RES. (S)		117

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 1. FEDERAL DEPARTMENTAL PROGRAMS. OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

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SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	7
		- DISCHARGE =	9
	CONVENTIONAL	- WATER LEVEL =	8
		- DISCHARGE =	13
	SUB-TOTAL	- WATER LEVEL =	15
		- DISCHARGE =	22
	TOTAL	=	37
GUELPH:	REMOTE	- WATER LEVEL =	2
		- DISCHARGE =	10
	CONVENTIONAL	- WATER LEVEL =	5
		- DISCHARGE =	63
	SUB-TOTAL	- WATER LEVEL =	7
		- DISCHARGE =	73
	TOTAL	=	80

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 2. INTERPROVINCIAL WATERS. OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE DATA	FUND.CD.	STATION NAME	UNITS	NO.
05RC001	5730.0	W	00	QR N	BA	BERENS RIVER ABOVE BERENS LAKE		1

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 2. INTERPROVINCIAL WATERS, OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	1
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	1
	TOTAL	=	1
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 3. INTERNATIONAL WATERS, OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CO.	STATION NAME	UNITS	NO.
05PB018	332.0	W	00	QR	D	CA	ATIKOKAN RIVER AT ATIKOKAN		1
02FF002	865.0	G	32	QR	S	CA	AUSABLE RIVER NEAR SPRINGBANK		2
02CE002	1350.0	G	42	QR	M	CA	AUX SABLES RIVER AT MASSEY		3
05PA012	4510.0	W	00	QR N	L	CA	BASSWOOD RIVER NEAR WINTON	ENGLISH	4
02BF001	1190.0	G	42	QR		CA	BATCHAWANA RIVER NEAR BATCHAWANA		5
02FF007	466.0	G	31	QR		CA	BAYFIELD RIVER NEAR VARNA		6
02GG009	533.0	G	33	QR	D	CA	BEAR CREEK BELOW BRIGDEN		7
02FB009	572.0	G	24	QR	D	CA	BEAVER RIVER NEAR CLARKSBURG		8
02GC007	591.0	G	34	QR	S	CA	BIG CREEK NEAR WALSINGHAM		9
02FB010	293.0	G	24	QR		CA	BIGHEAD RIVER NEAR MEAFORD		10
02GC026	676.0	G	34	QR	S M	CA	BIG OTTER CREEK NEAR CALTON		11
02BB002	1980.0	G	61	QR		CA	BLACK RIVER NEAR MARATHON		12
02AC002	2980.0	G	60	QR		CA	BLACK STURGEON RIVER AT HIGHWAY NO 17		13
02HD006	82.9	G	11	QR		CA	BOWMANVILLE CREEK AT BOWMANVILLE		14
02HB011	235.0	G	13	QR		CA	BRONTE CREEK NEAR ZIMMERMAN		15
02ED007	177.0	G	24	QR		CA	COLDWATER RIVER AT COLDWATER		16
02HB002	795.0	G	13	QR	SD	CA	CREDIT RIVER AT ERINDALE		17
02AD015	492.0	G	60	QR		CA	CURRENT RIVER NEAR STEPSTONE		18
02HC024	316.0	G	22	QR	D	CA	DON RIVER AT TODMORDEN		19
02HC006	249.0	G	11	QR	M	CA	DUFFINS CREEK AT PICKERING		20
02HB004	199.0	G	13	QR		CA	EAST OAKVILLE CREEK NEAR OMAGH		21
02HC030	204.0	G	22	QR	M	CA	ETOBICOKE CREEK BELOW Q.E.W.		22
05PA010	0.0	W	00	HR		CA	FRENCH LAKE NEAR ATIKOKAN		23
02HD012	232.0	G	11	QR	D	CA	GANARASKA RIVER ABOVE DALE		24
02GB001	5210.0	G	14	QR		CA	GRAND RIVER AT BRANTFORD		25
02EA013	35.5	G	44	QR		CA	HARRIS RIVER AT HWY NO 69		26
02HC013	88.1	G	22	QR	D	CA	HIGHLAND CREEK NEAR WEST HILL		27
02HC003	800.0	G	22	QR	M	CA	HUMBER RIVER AT WESTON		28
02GC002	329.0	G	32	QR	M	CA	KETTLE CREEK AT ST THOMAS		29
05PA011	0.0	W	00	HR N	L	CA	LAC LA CROIX AT CAMPBELLS CAMP		30
05PD011	0.0	W	00	HR	D	CA	LAKE OF THE WOODS AT CLEARWATER BAY		31
05PD029	0.0	W	00	HR N		CA	LAKE OF THE WOODS AT CYCLONE ISLAND (SEASONAL)		32
05PD008	0.0	W	00	HR	D	CA	LAKE OF THE WOODS AT HANSON BAY		33
05PE014	0.0	W	00	HR	M	CA	LAKE OF THE WOODS AT KEEWATIN		34
05PE006	0.0	W	00	QP		CA	LAKE OF THE WOODS EAST OUTLET AT KENORA P H		35
05PE005	0.0	W	00	QR		CA	LAKE OF THE WOODS OUTLET AT MINK CREEK		36
05PD030	0.0	W	00	HR		CA	LAKE OF THE WOODS AT SIOUX NARROWS (SEASONAL)		37
05PE011	0.0	W	00	QR		CA	L OF W WEST OUTLET AT NORMAN DAM AND P H		38
05PD001	0.0	W	00	HR	L	CA	LAKE OF THE WOODS AT WARROAD	ENGLISH	39
05PC016	243.0	W	00	QR		CA	LA VALLEE RIVER NEAR DEVLIN(S)		40

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 3. INTERNATIONAL WATERS, OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02BA003	1320.0	G	61	QR		CA	LITTLE PIC RIVER NEAR COLDWELL		41
02EA011	2850.0	G	44	QR		CA	MAGNETAWAN RIVER NEAR BRITT		42
02EA006	650.0	G	43	QR		CA	MAGNETAWAN RIVER NEAR BURKS FALLS		43
02BD003	1930.0	G	61	QR	M	CA	MAGPIE RIVER NEAR MICHIPICOTEN		44
02FE004	1760.0	G	31	QR		CA	MAITLAND RIVER NEAR DONNYBROOK		45
02AB016	145.0	G	62	QR		CA	MCINTYRE RIVER AT THUNDER BAY		46
02GB010	171.0	G	13	QR		CA	MCKENZIE CREEK NEAR CALEDONIA		47
02CC008	9300.0	G	42	QR		CA	MISSISSAGI RIVER AT MISSISSAGI CHUTE		48
02HL001	2620.0	G	11	QR	D	CA	MOIRA RIVER NEAR FOXBORO		49
02EB011	0.0	G	24	QR		CA	MOON RIVER AT HIGHWAY NO 69		50
02EB012	0.0	G	24	QR		CA	MUSKOKA RIVER AT HIGHWAY NO 69		51
05PA003	0.0	W	00	HR	N L	CA	NAMAKAN LAKE ABOVE KETTLE FALLS DAM		52
05PA006	13400.0	W	00	QR	N	CA	NAMAKAN RIVER AT OUTLET OF LAC LA CROIX		53
02GC022	181.0	G	34	QR		CA	NANTICOKE CREEK AT NANTICOKE		54
02HM007	694.0	G	52	QR	M	CA	NAPANEE RIVER AT CAMDEN EAST		55
02AB008	187.0	G	62	QR		CA	NEEBING RIVER NEAR THUNDER BAY		56
02HA013	0.0	G	13	HR		CA	NIAGARA RIVER AT FORT ERIE CUSTOMS DOCK		57
02HA012	0.0	G	13	HR		CA	NIAGARA RIVER BELOW I B M 35		58
02HA008	0.0	G	13	HR		CA	NIAGARA RIVER BELOW PEACE BRIDGE		59
02EA005	321.0	G	43	QR	M	CA	NORTH MAGNETAWAN RIVER NEAR BURKS FALLS		60
02ED003	1180.0	G	24	QR	S M	CA	NOTTAWASAGA RIVER NEAR BAXTER		61
02HB005	95.6	G	13	QR	M	CA	OAKVILLE CREEK AT MILTON		62
02BB003	4270.0	G	61	QR		CA	PIC RIVER NEAR MARATHON		63
02AA001	1550.0	G	60	QR		CA	PIGEON RIVER AT MIDDLE FALLS	ENGLISH	64
05PC011	461.0	W	00	QR		CA	PINEWOOD RIVER NEAR PINEWOOD(S)		65
05PB015	443.0	W	00	QR	N	CA	PIPESTONE RIVER ABOVE RAINY LAKE		66
05PC019	38600.0	W	00	QP	Q	CA	RAINY RIVER AT FORT FRANCES		67
05PB007	0.0	W	00	HR	M	CA	RAINY LAKE NEAR FORT FRANCES		68
05PC002	38600.0	W	00	HM		CA	RAINY RIVER AT FORT FRANCES INT FALLS P P		69
05PC004	38600.0	W	00	HR		CA	RAINY RIVER AT FORT FRANCIS INT FALLS PP FB	ENGLISH	70
05PC005	38600.0	W	00	HM		CA	RAINY RIVER AT FORT FRANCIS INT FALLS PP CANAL	ENGLISH	71
05PC003	38600.0	W	00	HR		CA	RAINY RIVER AT FORT FRANCIS INT FALLS PP TR		72
05PC018	50200.0	W	00	QR	L	CA	RAINY RIVER AT MANITOU RAPIDS	ENGLISH	73
02HC022	186.0	G	22	QR	M	CA	ROUGE RIVER NEAR MARKHAM		74
02HM003	891.0	G	11	QR		CA	SALMON RIVER NEAR SHANNONVILLE		75
02FA001	927.0	G	31	QR		CA	SAUBLE RIVER AT SAUBLE FALLS		76
02FC001	3960.0	G	31	QR	D	CA	SAUGEEN RIVER NEAR PORT ELGIN		77
02CD001	1350.0	G	42	QR		CA	SERPENT RIVER AT HIGHWAY NO 17		78
02HD007	77.7	G	11	QR		CA	SOPER CREEK AT BOWMANVILLE		79
02MC009	0.0	G	51	QR		CA	S. RAISIN R. DIVERSION AT LONG SAULT(JUN-SEP)		80

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 3. INTERNATIONAL WATERS, OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02HB010	166.0	G	13	QR	M	CA	SPENCER CREEK AT DUNDAS CROSSING		81
05PC010	168.0	W	00	QR		CA	STURGEON RIVER NEAR BARWICK(S)		82
02FB007	181.0	G	24	QR		CA	SYDENHAM RIVER NEAR OWEN SOUND		83
02HA006	293.0	G	13	QR		CA	TWENTY MILE CREEK AT BALLS FALLS		84
02HA007	230.0	G	13	QR		CA	WELLAND RIVER BELOW CAISTOR CORNERS		85
02BC004	4170.0	G	61	QR	N	CA	WHITE RIVER BELOW WHITE LAKE		86
02HM004	112.0	G	52	QR		CA	WILTON CREEK NEAR NAPANEE		87
05PE001	0.0	W	00	HM		CA	WINNIPEG RIVER BELOW KENORA POWERHOUSE		88
05PE020	70400.0	W	00	QP		CA	WINNIPEG R. BELOW LAKE OF THE WOODS OUTLETS		89
05PE012	0.0	W	00	HR		CA	WINNIPEG R. BELOW NORMAN DAM & POWERHOUSE		90
02AC001	736.0	G	60	QR		CA	WOLF RIVER AT HIGHWAY NO 17		91

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 3. INTERNATIONAL WATERS. OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	3
		- DISCHARGE =	3
	CONVENTIONAL	- WATER LEVEL =	13
		- DISCHARGE =	10
	SUB-TOTAL	- WATER LEVEL =	16
		- DISCHARGE =	13
	TOTAL	=	29
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	1
	CONVENTIONAL	- WATER LEVEL =	3
		- DISCHARGE =	58
	SUB-TOTAL	- WATER LEVEL =	3
		- DISCHARGE =	59
	TOTAL	=	62

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 4. NATIONAL WATER QUANTITY INVENTORY, OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CO.	STATION NAME	UNITS	NO.
04GC002	16300.0	G	61	QR	N	DA	ALBANY RIVER BELOW ACHAPI LAKE		1
05PD026	744.0	W	00	QR		DA	BERRY CREEK AT OUTLET OF BERRY LAKE		2
02DD015	106.0	G	41	QR		DA	COMMANDA CREEK AT COMMANDA		3
05QA002	6400.0	W	00	QR	L	DA	ENGLISH RIVER AT UNFREVILLE		4
04JG001	26200.0	G	43	QR	N	DA	KENOGAMI RIVER NEAR MANMAMATTAWA		5
04JF001	5360.0	G	43	QR	N	DA	LITTLE CURRENT RIVER AT PERCY LAKE		6
04MF001	6680.0	G	41	QR	N	DA	NORTH FRENCH RIVER NEAR THE MOUTH		7
04JD005	2020.0	G	43	QR		DA	PAGWACHUAN RIVER AT HIGHWAY NO 11		8
04DC002	4710.0	G	43	QR	N	DA	SHAMATTAWA RIVER AT OUTLET OF SHAMATTAWA LAKE		9
02GE003	4300.0	G	33	QR	M	DA	THAMES RIVER AT THAMESVILLE		10
05PB014	4870.0	W	00	QR		DA	TURTLE RIVER NEAR MINE CENTRE		11
02DB005	3130.0	G	44	QR		DA	WANAPITEI RIVER NEAR WANUP		12

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FEDERAL 4. NATIONAL WATER QUANTITY INVENTORY, OPERATED BY FEDERAL(WSC)

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	3
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	3
	TOTAL	=	3
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	5
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	4
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	9
	TOTAL	=	9

ACTIVE GAUGING STATIONS FOR ONTARIO
FED-PROV 1, OPERATED BY PROVINCE, ONTARIO HYDRO

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE DATA	FUND.CD.	STATION NAME	UNITS	NO.
04MD002	2870.0	G	82	QM	FBC	FREDERICK HOUSE RIVER AT F.H. LAKE DAM		1
02JD011	1370.0	G	82	QM	FBC	LADY EVELYN RIVER AT LADY EVELYN LAKE DAM		2
02KD007	2720.0	G	82	QM	FBC	MADAWASKA RIVER AT BARK LAKE DAM		3
02DC009	2360.0	G	82	QM	FBC	TEMAGAMI RIVER AT RED CEDAR LAKE DAM	ENGLISH	4
04MB003	238.0	G	82	QM	FBC	WATABEAG RIVER AT WATABEAG LAKE DAM	ENGLISH	5
02JD012	1780.0	G	82	QM	FBC	WEST MONTREAL RIVER AT MISTINIKON LAKE DAM	ENGLISH	6

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FED-PROV 1, OPERATED BY PROVINCE, ONTARIO HYDRO

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	6
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	6
	TOTAL	=	6

ACTIVE GAUGING STATIONS FOR ONTARIO
FED-PROV 1, OPERATED BY FEDERAL(WSC), ONTARIO HYDRO

DATE APR 01 1984

9

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02KC009	2380.0	G	53	QR		FAC	BONNECHERE RIVER NEAR CASTLEFORD		1
02KD004	5800.0	G	53	QR	M	FAC	MADAWASKA RIVER AT PALMER RAPIDS		2
04LM001	22900.0	G	41	QR	N	FAC	MISSINAIBI R BELOW WABOOSE R		3
02KD002	837.0	G	53	QR		FAC	YORK RIVER NEAR BANCROFT		4

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FED-PROV 1, OPERATED BY FEDERAL(WSC), ONTARIO HYDRO

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	1
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	3
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	4
	TOTAL	=	4

ACTIVE GAUGING STATIONS FOR ONTARIO
FED-PROV 1, OPERATED BY FEDERAL(WSC), O.M.O.E.

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE DATA	FUND.CD.	STATION NAME	UNITS	NO.
04DB001	7950.0	G	61	QR N L	FAD	ASHEWEIG RIVER AT STRAIGHT LAKE		1
04GA002	5390.0	G	62	QR N D	FAD	CAT RIVER BELOW WESLEYAN LAKE		2
02GC018	287.0	G	32	QR M	FAD	CATFISH CREEK NEAR SPARTA		3
02AB006	6470.0	G	62	QR	FAD	KAMINISTIQUIA RIVER AT KAMINISTIQUIA		4
04KA001	4250.0	G	41	QR N	FAD	KWATABOAHEGAN RIVER NEAR THE MOUTH		5
02ED005	295.0	G	24	QR	FAD	MAD RIVER NEAR GLENCAIRN		6
04GB004	11200.0	G	61	QR N	FAD	OGOKI RIVER ABOVE WHITECLAY LAKE		7
04FA001	9010.0	G	62	QR	FAD	OTOSKWIN RIVER BELOW BADESDAWA LAKE		8
04FA003	4900.0	G	61	QR N	FAD	PINEIMUTA RIVER AT EYES LAKE		9
04DA001	5960.0	G	62	QR N	FAD	PIPESTONE RIVER AT KARL LAKE		10
02CA002	108.0	G	42	QR	FAD	ROOT RIVER AT SAULT STE MARIE		11
04CA003	619.0	G	62	QR NS	FAD	ROSEBERRY R. ABOVE ROSEBERRY LAKES MISC. SED.		12
02GH002	125.0	G	33	QR	FAD	RUSCOM RIVER NEAR RUSCOM STATION		13
04CD002	4270.0	G	62	QR N	FAD	SACHIGO RIVER BELOW OUTLET OF SACHIGO LAKE		14
04CA004	0.0	G	62	QR N	FAD	SEVERN RIVER BELOW OUTLET OF DEER LAKE		15
04CA002	36500.0	G	62	QR N	FAD	SEVERN RIVER AT OUTLET OF MUSKRAT DAM LAKE		16
02HD009	82.6	G	11	QR D	FAD	WILMOT CREEK NEAR NEWCASTLE		17
04CB001	10800.0	G	62	QR N	FAD	WINDIGO RIVER ABOVE MUSKRAT DAM LAKE		18

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FED-PROV 1, OPERATED BY FEDERAL(WSC), O.M.O.E.

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	11
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	7
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	18
	TOTAL	=	18

ACTIVE GAUGING STATIONS FOR ONTARIO
FED-PROV 1, OPERATED BY FEDERAL(WSC), O.M.N.R.

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02HC027	58.0	G	22	QR	D	FAE	BLACK CREEK NEAR WESTON		1
02GB007	360.0	G	14	QR		FAE	FAIRCHILD CREEK NEAR BRANTFORD		2
02DD010	13900.0	G	44	QR	M	FAE	FRENCH RIVER AT DRY PINE BAY		3
02LA007	559.0	G	52	QR	M	FAE	JOCK RIVER NEAR RICHMOND		4
02DD006	0.0	G	44	HR	M	FAE	LAKE NIPISSING AT NORTH BAY		5
02GC008	134.0	G	34	QR		FAE	LYNN RIVER AT SIMCOE		6
02HC033	70.6	G	22	QR	D	FAE	MIMICO CREEK AT ISLINGTON		7
02HD009	95.8	G	11	QR		FAE	OSHAWA CREEK AT OSHAWA		8
02FE009	376.0	G	31	QR	S	FAE	SOUTH MAITLAND RIVER AT SUMMERHILL		9
02GG003	1160.0	G	33	QR		FAE	SYDENHAM RIVER AT FLORENCE		10

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
FED-PROV 1, OPERATED BY FEDERAL(WSC), O.M.N.R.

DATE APR 01 1984

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	1
		- DISCHARGE =	9
	SUB-TOTAL	- WATER LEVEL =	1
		- DISCHARGE =	9
	TOTAL	=	10

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL I, OPERATED BY FEDERAL(WSC), ONTARIO HYDRO

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE DATA	FUND.CO.	STATION NAME	UNITS	NO.
04GD001	32400.0	G	43	QR N	IAC	ALBANY RIVER ABOVE NOTTIK ISLAND		1
04LD001	11900.0	G	43	QR	IAC	GROUNDHOG RIVER AT FAUQUIER		2
02JD009	4300.0	G	41	QR	IAC	MONTREAL RIVER AT MOUNTAIN CHUTES		3
04JC002	2410.0	G	43	QR	IAC	NAGAGAMI RIVER AT HIGHWAY NO 11		4
02KC005	0.0	G	53	HR	IAC	OTTAWA RIVER NEAR WESTMEATH		5
02AB009	2800.0	G	62	QR	IAC	SHEBANDOWAN RIVER AT SUNSHINE		6

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL 1, OPERATED BY FEDERAL(WSC), ONTARIO HYDRO

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL	=	0
		- DISCHARGE	=	0
	CONVENTIONAL	- WATER LEVEL	=	0
		- DISCHARGE	=	0
	SUB-TOTAL	- WATER LEVEL	=	0
		- DISCHARGE	=	0
	TOTAL		=	0
GUELPH:	REMOTE	- WATER LEVEL	=	0
		- DISCHARGE	=	1
	CONVENTIONAL	- WATER LEVEL	=	1
		- DISCHARGE	=	4
	SUB-TOTAL	- WATER LEVEL	=	1
		- DISCHARGE	=	5
	TOTAL		=	6

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL 1. OPERATED BY FEDERAL(WSC). O.M.O.E.

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02GA030	49.7	G	14	QR		IAD	ALDER CREEK NEAR NEW DUNDEE		1
02GD018	144.0	G	32	QR	D	IAD	AVON RIVER BELOW STRATFORD		2
02EC011	282.0	G	23	QR		IAD	BEAVERTON RIVER NEAR BEAVERTON		3
02EC008	274.0	G	23	QR		IAD	BLACK RIVER AT BALDWIN		4
02AD010	650.0	G	60	QR		IAD	BLACKWATER RIVER AT BEARDMORE		5
02HF004	21.8	G	23	QR		IAD	BOB CREEK NEAR MINDEN		6
02HM005	155.0	G	52	QR		IAD	COLLINS CREEK NEAR KINGSTON		7
02DB007	59.0	G	44	QR		IAD	CONISTON CREEK ABOVE WANAPITEI RIVER		8
02LB012	76.7	G	51	QR		IAD	E BR SC. R NR ST ISIDORE DE PRESCOTT MAR1-DEC1		9
02AE001	616.0	G	60	QR		IAD	GRAVEL RIVER NEAR CAVERS		10
02EC009	181.0	G	24	QR	M	IAD	HOLLAND RIVER AT HOLLAND LANDING		11
02KC014	443.0	G	53	QR		IAD	INDIAN RIVER NEAR PEMBROKE		12
02CF012	207.0	G	44	QR		IAD	JUNCTION CREEK BELOW KELLEY LAKE		13
04FA002	1540.0	G	62	QR		IAD	KAWINOGANS RIVER NEAR PICKLE CROW		14
02LA006	409.0	G	52	QR	M	IAD	KEMPTVILLE CREEK NEAR KEMPTVILLE		15
02CD007	4.5	G	42	QR		IAD	LITTLE NORDIC CREEK AT ELLIOT LAKE		16
02HM006	150.0	G	52	QR		IAD	MILLHAVEN CREEK NEAR MILLHAVEN		17
02CF013	40.6	G	44	QR		IAD	MOOSE CREEK AT LEVACK		18
02HJ003	282.0	G	23	QR		IAD	OUSE RIVER NEAR WESTWOOD		19
02FD001	154.0	G	31	QR		IAD	PINE RIVER AT LURGAN		20
04MD004	401.0	G	41	QR		IAD	PORCUPINE RIVER AT HOYLE		21
02HC039	38.3	G	11	QR	T	IAD	REESOR CREEK ABOVE GREEN RIVER		22
02CD005	99.5	G	42	QR		IAD	ROCHESTER CREEK ABOVE QUIRKE LAKE		23
02CD002	109.0	G	42	QR		IAD	SERPENT RIVER AT OUTLET OF DUNLOP LAKE		24
02CD004	567.0	G	42	QR		IAD	SERPENT RIVER BELOW PECORS LAKE		25
02CD006	157.0	G	42	QR		IAD	SERPENT RIVER ABOVE QUIRKE LAKE		26
02CD003	319.0	G	42	QR		IAD	SERPENT RIVER BELOW QUIRKE LAKE		27
02FA002	50.5	G	31	QR		IAD	STOKES RIVER NEAR FERNDALE		28
02CF011	704.0	G	44	QR		IAD	VERMILION RIVER NEAR VAL CARON		29
02DD012	741.0	G	44	QR		IAD	VEUVE RIVER NEAR VERNER		30
02LB018	99.5	G	51	QR		IAD	W BR SC. R NR ST ISIDORE DE PRESCOTT MAR1-JUN1		31
02ED011	168.0	G	24	QR		IAD	WYE RIVER AT WYEBRIDGE		32

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL I. OPERATED BY FEDERAL(WSC), O.M.O.E.

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	32
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	32
	TOTAL	=	32

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL I, OPERATED BY FEDERAL(WSC), O.M.N.R.

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02LB008	440.0	G	51	QR		IAE	BEAR BROOK NEAR BOURGET		1
02MC026	124.0	G	51	QR	D	IAE	BEAUDETTE RIVIERE NEAR GLEN NEVIS		2
02HK006	641.0	G	23	QR		IAE	BEAVER CREEK NEAR MARMORA		3
02GC006	363.0	G	34	QR		IAE	BIG CREEK NEAR DELHI		4
02BF004	51.5	G	42	QR		IAE	BIG CARP RIVER NEAR SAULT STE. MARIE		5
02GC017	93.2	G	34	QR		IAE	BIG OTTER CREEK ABOVE OTTERVILLE		6
02GC010	342.0	G	34	QR	M	IAE	BIG OTTER CREEK AT TILLSONBURG		7
02HL003	401.0	G	53	QR		IAE	BLACK RIVER NEAR ACTINOLITE		8
02HE001	13.9	G	11	QR		IAE	BLOOMFIELD CREEK AT BLOOMFIELD		9
02GA031	44.5	G	14	QR		IAE	BLUE SPRINGS CREEK NEAR EDEN MILLS		10
02HB016	124.0	G	13	QR	M	IAE	BRONTE CREEK AT PROGRESTON		11
02HK009	82.3	G	23	QR	D	IAE	BURNLEY CREEK ABOVE WARKWORTH		12
02GA023	118.0	G	14	QR		IAE	CANAGAGIGUE CREEK NEAR ELMIRA		13
02GH003	159.0	G	33	QR		IAE	CANARD RIVER NEAR LUKERVILLE		14
02KF011	269.0	G	53	QR	D	IAE	CARP RIVER NEAR KINBURN		15
02FC011	163.0	G	31	QR		IAE	CARRICK CREEK NEAR CARLSRUHE		16
02LB006	433.0	G	51	QR		IAE	CASTOR RIVER AT RUSSELL		17
02GD011	93.2	G	34	QR	D	IAE	CEDAR CREEK AT WOODSTOCK		18
02DD014	37.3	G	44	QR		IAE	CHIPPEWA CREEK AT NORTH BAY		19
02KF013	280.0	G	53	QR	D	IAE	CLYDE RIVER AT GORDON RAPIDS		20
02KF010	614.0	G	53	QR	M	IAE	CLYDE RIVER NEAR LANARK		21
02HC023	62.2	G	22	QR		IAE	COLD CREEK NEAR BOLTON		22
02HK007	159.0	G	23	QR	D	IAE	COLD CREEK AT ORLAND		23
02GA039	272.0	G	14	QR		IAE	CONESTOGO RIVER ABOVE DRAYTON		24
02GA028	578.0	G	14	QR		IAE	CONESTOGO RIVER AT GLEN ALLAN		25
02HE002	114.0	G	11	QR		IAE	CONSECON CREEK AT ALLISONVILLE		26
02HB019	59.5	G	13	QR	D	IAE	CREDIT RIVER ALTON BRANCH ABOVE ALTON		27
02HB018	402.0	G	13	QR	D	IAE	CREDIT RIVER AT BOSTON MILLS		28
02HB001	205.0	G	13	QR	D	IAE	CREDIT RIVER NEAR CATARACT		29
02HB020	32.3	G	13	QR	D	IAE	CREDIT RIVER ERIN BRANCH ABOVE ERIN		30
02HB013	62.2	G	13	QR		IAE	CREDIT RIVER NEAR ORANGEVILLE		31
02HB008	127.0	G	13	QR	D	IAE	CREDIT RIVER WEST BRANCH AT NORVAL		32
02HK005	456.0	G	53	QR	D	IAE	CROWE RIVER NEAR GLEN ALDA		33
02HM002	189.0	G	52	QR		IAE	DEPOT CREEK AT BELLROCK		34
02GE005	146.0	G	32	QR		IAE	DINGMAN CREEK BELOW LAMBETH		35
02HC005	88.1	G	22	QR	M	IAE	DON RIVER AT YORK MILLS		36
02HC019	93.5	G	11	QR	D	IAE	DUFFINS CREEK ABOVE PICKERING		37
02EB013	593.0	G	43	QR	L	IAE	EAST RIVER NEAR HUNTSVILLE		38
02HC032	94.8	G	22	QR		IAE	EAST HUMBER RIVER AT KING CREEK		39
02HC009	197.0	G	22	QR	M	IAE	EAST HUMBER RIVER NEAR PINE GROVE		40

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL I. OPERATED BY FEDERAL(WSC), O.M.N.R.

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02GA029	236.0	G	13	QR		IAE	ERAMOSA RIVER ABOVE GUELPH		41
02HC017	63.2	G	22	QR		IAE	ETOBICOKE CREEK AT BRAMPTON		42
02KF014	277.0	G	53	QR		IAE	FALL RIVER NEAR FALLBROOK		43
02GD010	150.0	G	32	QR		IAE	FISH CREEK NEAR PROSPECT HILL		44
02HD003	67.3	G	11	QR	D	IAE	GANARASKA RIVER NEAR OSACA		45
02GA003	3520.0	G	14	QR		IAE	GRAND RIVER AT GALT		46
02GA014	694.0	G	14	QR	L	IAE	GRAND RIVER NEAR MARSVILLE		47
02GA016	800.0	G	14	QR		IAE	GRAND RIVER BELOW SHAND DAM		48
02GA034	1170.0	G	14	QR		IAE	GRAND RIVER AT WEST MONTROSE		49
02HB012	82.6	G	13	QR		IAE	GRINDSTONE CREEK NEAR ALDERSHOT		50
02GB006	150.0	G	14	QR		IAE	HORNER CREEK NEAR PRINCETON		51
02HC025	303.0	G	22	QR	S M	IAE	HUMBER RIVER AT ELDER MILLS		52
02HC047	117.0	G	22	QR		IAE	HUMBER RIVER NEAR PALGRAVE		53
02KF012	203.0	G	53	QR		IAE	INDIAN RIVER NEAR BLAKENEY		54
02HJ001	110.0	G	23	QR		IAE	JACKSONS CREEK AT PETERBOROUGH		55
02CF005	89.1	G	44	QR		IAE	JUNCTION CREEK AT SUDBURY		56
02GB009	91.9	G	14	QR		IAE	KENNY CREEK NEAR BURFORD		57
02JC010	256.0	G	41	QR	N L	IAE	LARDER RIVER ABOVE RAVEN LAKE		58
02GA024	59.6	G	14	QR		IAE	LAUREL CREEK AT WATERLOO		59
02DD013	70.4	G	44	QR		IAE	LA VASE RIVER AT NORTH BAY		60
02GH011	50.5	G	33	QR		IAE	LITTLE RIVER AT WINDSOR		61
02HC029	130.0	G	22	QR	M	IAE	LITTLE DON RIVER AT DON MILLS		62
02FE007	326.0	G	31	QR	D	IAE	LITTLE MAITLAND RIVER AT BLUEVALE		63
02GC015	104.0	G	34	QR		IAE	LITTLE OTTER CRK NR STRAFFORDVILLE		64
02FD002	54.9	G	31	QR	DM	IAE	LUCKNOW RIVER AT LUCKNOW		65
02GA033	64.7	G	13	QR		IAE	LUTTERAL CREEK NEAR OUSTIC		66
02MB006	0.0	G	52	QR		IAE	LYN CREEK NEAR LYN		67
02HC018	106.0	G	11	QR		IAE	LYNDE CREEK NEAR WHITBY		68
02FE011	112.0	G	31	QR	DT	IAE	MAITLAND RIVER NEAR HARRISTON		69
02FE005	528.0	G	31	QR	DM	IAE	MAITLAND RIVER ABOVE WINGHAM		70
02FE002	1630.0	G	31	QR	D	IAE	MAITLAND RIVER BELOW WINGHAM		71
02HG001	189.0	G	23	QR	M	IAE	MARIPOSA BROOK NEAR LITTLE BRITAIN		72
04LA002	5540.0	G	41	QR		IAE	MATTAGAMI RIVER NEAR TIMMINS	ENGLISH	73
02GE007	202.0	G	33	QR	M	IAE	MCGREGOR CREEK NEAR CHATHAM		74
02GD008	200.0	G	32	QR	D	IAE	MEDWAY RIVER AT LONDON		75
02FE008	647.0	G	31	QR	D	IAE	MIDDLE MAITLAND RIVER NR BELGRAVE		76
02FE013	416.0	G	31	QR	D	IAE	MIDDLE MAITLAND RIVER ABOVE ETHEL		77
02FE003	77.7	G	31	QR	DM	IAE	MIDDLE MAITLAND RIVER NEAR LISTOWEL		78
02GD004	306.0	G	32	QR	D	IAE	MIDDLE THAMES RIVER AT THAMESFORD		79
02KF001	2620.0	G	52	QR	D	IAE	MISSISSIPPI RIVER AT FERGUSONS FALLS		80

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL I. OPERATED BY FEDERAL(WSC), O.M.N.R.

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02HL005	308.0	G	23	QR		IAE	MOIRA RIVER NEAR DELORO		81
02GA010	1030.0	G	14	QR		IAE	NITH RIVER NEAR CANNING		82
02GA018	552.0	G	14	QR		IAE	NITH RIVER AT NEW HAMBURG		83
02GA038	326.0	G	14	QR		IAE	NITH RIVER ABOVE NITHBURG		84
02CF009	21.5	G	44	QR		IAE	NOLIN CREEK AT SUDBURY		85
02EB004	1390.0	G	24	QM		IAE	NORTH BRANCH MUSKOKA RIVER AT PORT SYDNEY		86
02LB017	69.2	G	52	QR		IAE	NORTH BRANCH SOUTH NATION RIVER NEAR HECKSTON		87
02FC013	262.0	G	31	QR		IAE	NORTH SAUGEEN RIVER NEAR PAISLEY		88
02GD003	1450.0	G	32	QR		IAE	NORTH THAMES RIVER BELOW FANSHAWE DAM		89
02GD014	319.0	G	32	QR	D	IAE	NORTH THAMES RIVER NEAR MITCHELL		90
02GD005	1080.0	G	32	QR	D	IAE	NORTH THAMES RIVER AT ST MARYS		91
02GD015	1340.0	G	32	QR	D	IAE	NORTH THAMES RIVER NEAR THORNDALE		92
02HD004	42.7	G	11	QR		IAE	NORTH WEST GANARASKA RIVER NEAR OSACA		93
02CF010	1570.0	G	44	QR		IAE	ONAPING RIVER NEAR LEVACK		94
02EB014	601.0	G	24	QR		IAE	OXTONGUE RIVER NEAR DWIGHT		95
02FF008	110.0	G	32	QR	M	IAE	PARKHILL CREEK ABOVE PARKHILL RESERVOIR		96
02GC012	51.3	G	34	QR	M	IAE	PATTERSON CREEK NEAR SIMCOE		97
02LB022	152.0	G	51	QR		IAE	PAYNE RIVER NEAR BERWICK		98
02MC001	404.0	G	51	QR		IAE	RAISIN RIVER NEAR WILLIAMSTOWN		99
02HK008	86.7	G	11	QR	D	IAE	RAWDON CREEK NEAR WEST HUNTINGDON		100
02HA014	60.9	G	13	QR	M	IAE	REDHILL CREEK AT HAMILTON		101
02FC016	329.0	G	31	QR	DM	IAE	SAUGEEN RIVER ABOVE DURHAM		102
02FC002	2150.0	G	31	QR	DM	IAE	SAUGEEN RIVER NEAR WALKERTON		103
02GA037	25.1	G	14	QR		IAE	SCHNEIDER CREEK AT KITCHENER		104
02EC010	42.9	G	22	QR		IAE	SCHOMBERG RIVER NEAR SCHOMBERG		105
02HD010	64.7	G	11	QR		IAE	SHELTER VALLEY BROOK NEAR GRAFTON		106
02HL004	712.0	G	53	QR	D	IAE	SKOOTAMATTA RIVER NEAR ACTINOLITE		107
02DD009	316.0	G	41	QR		IAE	SOUTH RIVER AT SOUTH RIVER		108
02EB009	1390.0	G	24	QM		IAE	SOUTH BRANCH MUSKOKA RIVER AT BAYSVILLE		109
02LB020	189.0	G	51	QR		IAE	SOUTH CASTOR RIVER AT KENMORE		110
02LB013	2410.0	G	51	QR	M	IAE	SOUTH NATION R. AT CASSELMAN		111
02LB009	1050.0	G	52	QM		IAE	SOUTH NATION RIVER AT CHESTERVILLE (MAR-MAY)		112
02LB007	246.0	G	52	QR		IAE	SOUTH NATION RIVER AT SPENCERVILLE		113
02FF004	41.4	G	32	QR	M	IAE	SOUTH PARKHILL CREEK NEAR PARKHILL		114
02FC012	635.0	G	31	QR	D	IAE	SOUTH SAUGEEN RIVER NEAR HANOVER		115
02GA040	167.0	G	14	QR		IAE	SPEED RIVER NEAR ARMSTRONG MILLS		116
02GA015	593.0	G	14	QR		IAE	SPEED RIVER BELOW GUELPH		117
02HB015	63.5	G	13	QR	M	IAE	SPENCER CREEK NEAR WESTOVER		118
02DC004	2980.0	G	44	QR	L	IAE	STURGEON RIVER NEAR GLEN AFTON		119
02GH001	14.2	G	33	QR		IAE	STURGEON CREEK NEAR LEAMINGTON		120

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL I. OPERATED BY FEDERAL(WSC), O.M.N.R.

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02DC011	1800.0	G	44	QR N	L	IAE	STURGEON RIVER AT LOWER GOOSE FALLS		121
02GG002	730.0	G	33	QR	D	IAE	SYDENHAM RIVER NEAR ALVINSTON		122
02GG005	172.0	G	32	QR	M	IAE	SYDENHAM RIVER AT STRATHROY		123
02GG008	2680.0	G	33	HR	D	IAE	SYDENHAM RIVER AT WALLACEBURG		124
02FC015	663.0	G	31	QR	D	IAE	TEESWATER RIVER NEAR PAISLEY		125
02GE002	3110.0	G	32	QR	DM	IAE	THAMES RIVER AT BYRON		126
02GE004	4610.0	G	33	(HN)	M	IAE	THAMES RIVER AT CHATHAM		127
02GE006	3760.0	G	33	QR	M	IAE	THAMES RIVER NEAR DUTTON		128
02GD001	1340.0	G	32	QR	D	IAE	THAMES RIVER NEAR EALING		129
02GD016	518.0	G	32	QR	DT	IAE	THAMES RIVER AT INGERSOLL		130
02GD021	149.0	G	34	QR	D	IAE	THAMES RIVER AT INNERKIP		131
02GD012	254.0	G	34	QR		IAE	THAMES RIVER AT WOODSTOCK		132
02GD019	36.0	G	32	QR		IAE	TROUT CREEK NEAR FAIRVIEW		133
02GD009	140.0	G	32	QR		IAE	TROUT CREEK NEAR ST MARYS		134
02GH004	29.6	G	33	QR		IAE	TURKEY CREEK AT WINDSOR		135
02GC021	68.4	G	34	QR		IAE	VENISON CREEK NEAR WALSINGHAM		136
02GD020	108.0	G	32	QR	D	IAE	WAUBUNO CREEK NEAR DORCHESTER		137
02HC026	98.1	G	11	QR	D	IAE	WEST DUFFINS CREEK AT GREEN RIVER		138
02HC031	148.0	G	22	QR	D	IAE	WEST HUMBER RIVER AT HIGHWAY NO 7		139
02AB017	210.0	G	62	QR	L	IAE	WHITEFISH RIVER AT NOLALU		140
02GB008	383.0	G	14	QR		IAE	WHITEMANS CREEK NEAR MOUNT VERNON		141
02CF007	272.0	G	44	QR		IAE	WHITSON RIVER AT CHELMSFORD		142
02CF008	155.0	G	44	QR		IAE	WHITSON RIVER AT VAL CARON		143
02ED009	94.8	G	24	QR		IAE	WILLOW CREEK ABOVE LITTLE LAKE		144
02ED010	127.0	G	24	QR		IAE	WILLOW CREEK AT MIDHURST		145
02GD013	38.8	G	32	QR		IAE	WYE CREEK NEAR THORNDALE		146

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL 1, OPERATED BY FEDERAL(WSC), O.M.N.R.

DATE APR 01 1984

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SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	2
	CONVENTIONAL	- WATER LEVEL =	2
		- DISCHARGE =	142
	SUB-TOTAL	- WATER LEVEL =	2
		- DISCHARGE =	144
	TOTAL	=	146

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL I. OPERATED BY FEDERAL(WSC), O.M.O.E., O.M.N.R.

DATE APR 01 1984

9

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02GG006	267.0	G	33	QR	D	IAF	BEAR CREEK NEAR PETROLIA		1
02AB014	112.0	G	60	QR		IAF	NORTH CURRENT RIVER NEAR THUNDER BAY		2
02BA002	1190.0	G	61	QR		IAF	STEEL RIVER NEAR TERRACE BAY		3

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL I, OPERATED BY FEDERAL(WSC), O.M.O.E., O.M.N.R.

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	3
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	3
	TOTAL	=	3

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL I, OPERATED BY FEDERAL(WSC), ONTARIO HYDRO, O.M.N.R.

DATE APR 01 1984

9

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02CB003	1440.0	G	42	QR	TL	IAG	AUBINADONG RIVER ABOVE SESABIC CREEK		1
02CC005	1960.0	G	42	QR	M	IAG	LITTLE WHITE RIVER NEAR BELLINGHAM		2
02CC010	1190.0	G	42	QR	TL	IAG	LITTLE WHITE RIVER BELOW BOLAND RIVER		3

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
PROVINCIAL I. OPERATED BY FEDERAL(WSC), ONTARIO HYDRO, O.M.N.R.

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	3
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	3
	TOTAL	=	3

ACTIVE SEDIMENT GAUGING STATIONS FOR ONTARIO
FEDERAL DEPARTMENTAL PROGRAMS, OPERATED BY FEDERAL(WSC), SEDIMENT

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE DATA	FUND.CD.	STATION NAME	UNITS	NO.
04HA001	18000.0	G	43	QR NS L	AAS	ALBANY RIVER NEAR HAT ISLAND MISC. SED.		1
04FC001	36000.0	G	43	QR NS	AAS	ATTAWAPISKAT R. BELOW MUKETEI R. MISC. SED.		2
02FF002	865.0	G	32	QR S	AAS	AUSABLE RIVER NEAR SPRINGBANK		3
02GC007	591.0	G	34	QR S	AAS	BIG CREEK NEAR WALSINGHAM		4
02GC026	676.0	G	34	QR S M	AAS	BIG OTTER CREEK NEAR CALTON		5
02GA036	17.9	G	14	QR S	AAS	CANAGAGIGUE CREEK NEAR FLORADALE		6
02HB002	795.0	G	13	QR SD	AAS	CREDIT RIVER AT ERINDALE		7
02GA035	27.7	G	14	QR S	AAS	EAST CANAGAGIGUE CREEK NEAR FLORADALE		8
02HD014	58.5	G	22	QM S	AAS	FAREWELL CREEK AT OSHAWA (SED.FEB-MAY)		9
02HD013	41.6	G	22	QR S	AAS	HARMONY CREEK AT OSHAWA (SED.FEB-MAY)		10
04LG004	60100.0	G	41	QR S L	AAS	MOOSE RIVER ABOVE MOOSE RIVER MISC. SED.		11
02ED003	1180.0	G	24	QR S M	AAS	NOTTAWASAGA RIVER NEAR BAXTER		12
02GA032	2.5	G	24	QR S	AAS	OAC FARM GAUGE NO 5 AT GUELPH		13
04CA003	619.0	G	61	QR NS	AAS	ROSEBERRY R. ABOVE ROSEBERRY LAKES MISC. SED.		14
04CC001	94300.0	G	62	QR NSDL	AAS	SEVERN RIVER AT LIMESTONE RAPIDS MISC. SED.		15
02FE009	376.0	G	31	QR S	AAS	SOUTH MAITLAND RIVER AT SUMMERHILL		16
02LB005	3810.0	G	51	QR S M	AAS	SOUTH NATION RIVER NEAR PLANTAGENET SPRINGS		17
04DC001	50000.0	G	62	QR NS	AAS	WINISK R. BELOW ASHEWEIG R. TRIBUTARY MISC. S		18

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE SEDIMENT GAUGING STATIONS FOR ONTARIO
FEDERAL DEPARTMENTAL PROGRAMS, OPERATED BY FEDERAL(WSC), SEDIMENT

DATE APR 01 1984

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	5
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	13
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	18
	TOTAL	=	18

ACTIVE SEDIMENT GAUGING STATIONS FOR ONTARIO
PROVINCIAL 1. OPERATED BY FEDERAL(WSC). SEDIMENT

DATE APR 01 1984

9

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02HC025	303.0	G	11	QR	S M	IAS	HUMBER RIVER AT ELDER MILLS		1

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE SEDIMENT GAUGING STATIONS FOR ONTARIO
PROVINCIAL 1, OPERATED BY FEDERAL(WSC), SEDIMENT

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	1
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	1
	TOTAL	=	1

ACTIVE GAUGING STATIONS FOR ONTARIO
CONTRIBUTED DATA, OPERATED BY PROVINCE, ONTARIO HYDRO

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
04ME002	22900.0	G	80	QP		R9C	ABITIBI RIVER AT ABITIBI CANYON		1
04ME004	23400.0	G	80	QP		R8C	ABITIBI RIVER AT OTTER RAPIDS		2
05QE005	52300.0	W	00	QP		R8C	ENGLISH RIVER AT CARIBOU FALLS	ENGLISH	3
05QE006	26400.0	W	00	QP		R8C	ENGLISH RIVER AT EAR FALLS	ENGLISH	4
05QE007	37000.0	W	00	QP		R8C	ENGLISH RIVER AT MANITOU FALLS	ENGLISH	5
04MD003	2540.0	G	82	HM		R8C	FREDERICK HOUSE RIVER AT NIGHTHAWK LAKE		6
02AB012	174.0	G	83	QM		R8C	GREENWATER CREEK AT OUTLET OF GREENWATER LAKE		7
02AB004	3760.0	G	83	QP		R8C	KAMINISTIQUIA RIVER AT OUTLET OF DOG LAKE		8
02AB010	6710.0	G	83	QP		R8C	KAMINISTIQUIA RIVER AT KAKABEKA FALLS P.H.		9
02AB013	526.0	G	83	QM		R8C	KASHABOWIE RIVER AT OUTLET OF KASHABOWIE LAKE		10
04JD002	4270.0	G	82	QM		R8C	KENOGAMI RIVER AT KENOGAMI DAM		11
02AD007	0.0	G	82	HR		R8C	LAKE NIPIGON AT MACDIARMID		12
04GA001	0.0	G	83	QR	N	R8C	LAKE ST JOSEPH OUTFLOW TO ALBANY RIVER		13
04GA004	0.0	G	83	HR	N	R8C	LAKE ST JOSEPH ABOVE RAT RAPIDS DAM		14
05QB005	0.0	W	00	HR		R8C	LAKE ST JOSEPH DIVERSION ABOVE CONTROL DAM	ENGLISH	15
05QB006	0.0	W	00	QR		R8C	LAKE ST JOSEPH DIVERSION AT ROOT PORTAGE	ENGLISH	16
04JD003	0.0	G	81	QR		R8C	LONG LAKE DIVERSION TO LAKE SUPERIOR		17
04JD001	0.0	G	82	HM		R8C	LONG LAKE AT LONGLAC		18
02KE005	8160.0	G	81	QP		R8C	MADAWASKA RIVER AT STEWARTVILLE		19
02JE021	749.0	G	82	QM		R8C	MATABITCHUAN RIVER AT RABBIT LAKE DAM		20
04LG003	34700.0	G	80	QP		R8C	MATTAGAMI RIVER AT LITTLE LONG RAPIDS		21
02CB001	4040.0	G	83	QP		R8C	MISSISSAGI RIVER BELOW AUBREY FALLS		22
02CC007	6840.0	G	83	QP		R8C	MISSISSAGI RIVER AT RAYNER GENERATING STATION		23
02CC009	9010.0	G	83	QP		R8C	MISSISSAGI RIVER AT RED ROCK FALLS		24
02CB002	2150.0	G	82	HM	L	R8C	MISSISSAGI RIVER AT ROCKY ISLAND LAKE		25
04GB003	0.0	G	81	HR		R8C	MOJIKIT LAKE RESERVOIR AT MOJIKIT LAKE		26
02JD010	6600.0	G	80	QP		R8C	MONTREAL RIVER AT LOWER NOTCH GENERATING STA.		27
02AD008	24600.0	G	81	QP		R8C	NIPIGON RIVER AT PINE PORTAGE		28
02AD009	0.0	G	81	QR		R8C	OGOKI RIVER DIVERSION TO LAKE NIPIGON		29
04GB001	13600.0	G	82	QR		R8C	OGOKI RIVER AT WABOOSE FALLS DAM		30
02KC012	0.0	G	81	HR		R8C	OTTAWA RIVER AT ARNPRIOR		31
02KF009	89600.0	G	81	QP		R8C	OTTAWA RIVER AT CHATS FALLS		32
02KA002	57500.0	G	81	QP		R8C	OTTAWA RIVER AT DES JOACHIMS		33
02JE012	47900.0	G	81	QP		R8C	OTTAWA RIVER AT LA CAVE RAPIDS		34
02KC013	0.0	G	82	HR		R8C	OTTAWA RIVER AT PEMBROKE		35
02AB011	0.0	G	83	QM		R8C	SHEBANDOWAN RIVER AT OUTLET OF SHEBANDOWAN L.		36
02DC003	6660.0	G	80	QP		R8C	STURGEON RIVER AT CRYSTAL FALLS	ENGLISH	37
02DC007	1360.0	G	82	QM		R8C	TEMAGAMI RIVER AT CROSS LAKE DAM	ENGLISH	38
02DC010	0.0	G	82	HM		R8C	TEMAGAMI LAKE AT TEMAGAMI	ENGLISH	39
04GB002	0.0	G	83	HR		R8C	WABOOSE LAKE RESERVOIR AT WABOOSE DAM		40

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
CONTRIBUTED DATA, OPERATED BY PROVINCE, ONTARIO HYDRO

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE DATA	FUND.CO.	STATION NAME	UNITS	NO.
02DA002	0.0	G	82	HM	RBC	WANAPITEI LAKE AT BOWLANDS BAY	ENGLISH	41
05PE009	0.0	W	00	HM	RBC	WINNIPEG RIVER AT MINAKI	ENGLISH	42
05PE010	0.0	W	00	QP	RBC	WINNIPEG R. AT WHITEDOG FALLS POWERHOUSE	ENGLISH	43

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
CONTRIBUTED DATA, OPERATED BY PROVINCE, ONTARIO HYDRO

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL	=	0
		- DISCHARGE	=	0
	CONVENTIONAL	- WATER LEVEL	=	2
		- DISCHARGE	=	5
	SUB-TOTAL	- WATER LEVEL	=	2
		- DISCHARGE	=	5
	TOTAL		=	7
GUELPH:	REMOTE	- WATER LEVEL	=	1
		- DISCHARGE	=	1
	CONVENTIONAL	- WATER LEVEL	=	10
		- DISCHARGE	=	24
	SUB-TOTAL	- WATER LEVEL	=	11
		- DISCHARGE	=	25
	TOTAL		=	36

ACTIVE GAUGING STATIONS FOR ONTARIO
CONTRIBUTED DATA, OPERATED BY PROVINCE, O.M.O.E.

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02ED100	86.0	G	90	QR		RBD	BEETON CREEK NEAR TOTTENHAM		1
02ED102	211.0	G	90	QR		RBD	BOYNE RIVER AT EARL ROWE PARK		2
02EC103	332.0	G	90	QR		RBD	PEFFERLAW BROOK NEAR UDORA		3
02ED103	195.0	G	90	QR	M	RBD	PINE RIVER NEAR EVERETT		4
02EC101	24.3	G	90	QR		RBD	UXBRIDGE BROOK AT UXBRIDGE		5

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
CONTRIBUTED DATA, OPERATED BY PROVINCE, O.M.O.E.

DATE APR 01 1984

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	5
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	5
	TOTAL	=	5

ACTIVE GAUGING STATIONS FOR ONTARIO
CONTRIBUTED DATA, OPERATED BY PRIVATE AGENCY

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE DATA	FUND.CO.	STATION NAME	UNITS	NO.
04MC001	13300.0	G	70	QP	RDP	ABITIBI RIVER AT IROQUOIS FALLS		1
04MC002	9950.0	G	70	QP	RDP	ABITIBI RIVER AT TWIN FALLS		2
05QD003	2510.0	W	00	QP	RDP	EAGLE RIVER AT EAGLE RIVER	ENGLISH	3
04LF001	6760.0	G	76	QP	RDP	KAPUSKASING RIVER AT KAPUSKASING	ENGLISH	4
05PB012	0.0	W		HM	RDP	LAC DES MILLE LACS ABOVE OUTLET DAM(S)	ENGLISH	5
04LB001	10000.0	G	70	QP	RDP	MATTAGAMI RIVER AT SMOOTH ROCK FALLS	ENGLISH	6
02BD002	5130.0	G	77	QP	RDP	MICHIPICOTEN RIVER AT HIGH FALLS	ENGLISH	7
02BE002	2880.0	G	77	QR	RDP	MONTREAL RIVER NEAR MONTREAL RIVER HARBOUR	ENGLISH	8
05PB009	5880.0	W		QP	RDP	SEINE RIVER AT STURGEON FALLS GEN STA.	ENGLISH	9
02EC003	5850.0	G	24	QP	RDP	SEVERN RIVER AT SWIFT RAPIDS(CONTR.91)	ENGLISH	10
02CE001	11400.0	G	73	QP	RDP	SPANISH RIVER AT ESPANOLA	ENGLISH	11
02CE004	6800.0	G	78	QP	RDP	SPANISH RIVER AT HIGH FALLS	ENGLISH	12
02CF004	4190.0	G	78	QP	RDP	VERMILION RIVER AT LORNE FALLS	ENGLISH	13
05QD016	2300.0	W	00	QP	RDP	WABIGOON RIVER AT DRYDEN	ENGLISH	14

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
CONTRIBUTED DATA, OPERATED BY PRIVATE AGENCY

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	1
		- DISCHARGE =	3
	SUB-TOTAL	- WATER LEVEL =	1
		- DISCHARGE =	3
	TOTAL	=	4
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	10
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	10
	TOTAL	=	10

ACTIVE GAUGING STATIONS FOR ONTARIO
CONTRIBUTED DATA, OPERATED BY FEDERAL(WSC), MEDS/CHS

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE	DATA	FUND.CD.	STATION NAME	UNITS	NO.
02GH008	0.0	G	33	HR		RAT	DETROIT RIVER AT AMHERSTBURG		1
02GH007	0.0	G	33	HR		RAT	DETROIT RIVER AT LASALLE		2
02GH009	0.0	G	33	HR	D	RAT	LAKE ERIE AT BAR POINT		3
02GF002	0.0	G	33	HR		RAT	LAKE ERIE AT ERIEAU		4
02GH010	0.0	G	33	HR		RAT	LAKE ERIE AT KINGSVILLE		5
02HA017	0.0	G	13	HR	D	RAT	LAKE ERIE AT PORT COLBORNE		6
02GC028	0.0	G	34	HR		RAT	LAKE ERIE AT PORT DOVER		7
02GC027	0.0	G	32	HR	D	RAT	LAKE ERIE AT PORT STANLEY		8
02ED012	0.0	G	24	HR		RAT	LAKE HURON AT COLLINGWOOD		9
02FE012	0.0	G	31	HR	D	RAT	LAKE HURON AT GODERICH		10
02CG002	0.0	G	42	HR		RAT	LAKE HURON AT LITTLE CURRENT		11
02EA014	0.0	G	44	HR		RAT	LAKE HURON AT PARRY SOUND		12
02CA006	0.0	G	42	HR	D	RAT	LAKE HURON AT THESSALON		13
02FA003	0.0	G	31	HR		RAT	LAKE HURON AT TOBERMORY		14
02HB017	0.0	G	13	HR	D	RAT	LAKE ONTARIO AT BURLINGTON		15
02HD015	0.0	G	11	HR	D	RAT	LAKE ONTARIO AT COBOURG		16
02HM008	0.0	G	52	HR	D	RAT	LAKE ONTARIO AT KINGSTON		17
02HA018	0.0	G	13	HR	D	RAT	LAKE ONTARIO AT PORT WELLER		18
02HC048	0.0	G	22	HR	D	RAT	LAKE ONTARIO AT TORONTO		19
02GH005	0.0	G	33	HR	D	RAT	LAKE ST.CLAIR AT BELLE RIVER		20
02GH006	0.0	G	33	HR		RAT	LAKE ST.CLAIR AT TECUMSEH		21
02BF010	0.0	G	42	HR		RAT	LAKE SUPERIOR AT GROS CAP		22
02BD004	0.0	G	61	HR	D	RAT	LAKE SUPERIOR AT MICHIPOTEN HARBOUR		23
02BA004	0.0	G	60	HR		RAT	LAKE SUPERIOR AT ROSSPORT		24
02AB018	0.0	G	62	HR	D	RAT	LAKE SUPERIOR AT THUNDER BAY		25
02GG010	0.0	G	33	HR		RAT	ST. CLAIR RIVER AT POINT EDWARD		26
02GG011	0.0	G	33	HR		RAT	ST. CLAIR RIVER AT PORT LAMBTON		27
02MB007	0.0	G	52	HR		RAT	ST. LAWRENCE RIVER AT BROCKVILLE		28
02MC022	0.0	G	51	HR		RAT	ST. LAWRENCE R. BELOW CORNWALL CANAL		29
02MB008	0.0	G	52	HR		RAT	ST. LAWRENCE R. AT IROQUOIS ISLAND (AB)		30
02MB009	0.0	G	52	HR		RAT	ST. LAWRENCE R. AT IROQUOIS ISLAND (BE)		31
02MC023	0.0	G	51	HR		RAT	ST. LAWRENCE R. AT SUMMERSTOWN		32
02BF011	0.0	G	42	HR		RAT	ST. MARYS R. AT S.S.MARIE (ABOVE)		33
02CA005	0.0	G	42	HR		RAT	ST. MARYS R. AT S.S.MARIE (BELOW)		34

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
CONTRIBUTED DATA, OPERATED BY FEDERAL(WSC), MEDS/CHS

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	0
		- DISCHARGE =	0
	TOTAL	=	0
GUELPH:	REMOTE	- WATER LEVEL =	0
		- DISCHARGE =	0
	CONVENTIONAL	- WATER LEVEL =	34
		- DISCHARGE =	0
	SUB-TOTAL	- WATER LEVEL =	34
		- DISCHARGE =	0
	TOTAL	=	34

ACTIVE GAUGING STATIONS FOR ONTARIO
CONTRIBUTED DATA, OPERATED BY FEDERAL(OTHER), OTHER FEDERAL AGENCY

DATE APR 01 1984

STA.NO.	DR.AREA	DIST.	TECH	GAUGE DATA	FUND.CD.	STATION NAME	UNITS	NO.
02DD021	0.0	G	44	HM	REO	LAKE NIPISSING AT FRENCH R.OUTLET(CONTR.92)		1
02HA003	86000.0	G	87	QP	REO	NIAGARA RIVER AT QUEENSTON	ENGLISH	2
02MC002	80000.0	G	86	QP	REO	ST. LAWRENCE RIVER AT CORNWALL	ENGLISH	3
02CA001	10000.0	G	85	QP	REO	ST MARYS RIVER AT SAULT STE MARIE	ENGLISH	4
02EC016	0.0	G	24	QM	REO	TRENT CANAL LOCK 42 NEAR WASHAGO(CONTR.84)		5

* DR.AREA.=0.0 IS NOT APPLICABLE

ACTIVE GAUGING STATIONS FOR ONTARIO
CONTRIBUTED DATA, OPERATED BY FEDERAL(OTHER), OTHER FEDERAL AGENCY

DATE APR 01 1984

9

SUMMARY

WINNIPEG:	REMOTE	- WATER LEVEL	=	0
		- DISCHARGE	=	0
	CONVENTIONAL	- WATER LEVEL	=	0
		- DISCHARGE	=	0
	SUB-TOTAL	- WATER LEVEL	=	0
		- DISCHARGE	=	0
	TOTAL		=	0
GUELPH:	REMOTE	- WATER LEVEL	=	0
		- DISCHARGE	=	0
	CONVENTIONAL	- WATER LEVEL	=	1
		- DISCHARGE	=	4
	SUB-TOTAL	- WATER LEVEL	=	1
		- DISCHARGE	=	4
	TOTAL		=	5

APPENDIX B

SCHEDULE "D"

ANNUAL PAYMENT FOR

1984/85

SCHEDULE D - 1984/85 April 4, 1984

This schedule provides a summary of the annual payment. The details of the calculations for operation and construction are available and have been jointly reviewed by officers of each party.

ANNUAL PAYMENT tables are provided separately for each of the three provincial agencies involved in financing the water quantity survey program.

A. ANNUAL PAYMENT for 1984-85 to be paid to Receiver General of Canada by Ontario Hydro.

	Operation	Construction	Total
a) Streamflow and water level installations (6 stations operated by and 4 stations cost shared with Water Survey of Canada and 3 stations cost shared with OMNR).	$ 37,680	$ Nil	$ 37,680
b) Specialized Equipment (cost shared operation of 2 DCP's with OMNR).	$ 600	$ Nil	$ 600
		ANNUAL PAYMENT	$ 38,280

B. ANNUAL PAYMENT for 1984-85 to be paid to Ontario Hydro by Water Survey of Canada

	Operation	Construction	Total
Streamflow and water level (6 stations cost shared with OH).	$ 6,280	$ Nil	$ 6,280
		ANNUAL PAYMENT	$ 6,280

C. ANNUAL PAYMENT for 1984-85 to be paid to Receiver General of Canada by Ontario Ministry of the Environment.

	Operation	Construction	Total
Streamflow and water level installations (32 stations operated by and 18 stations cost shared with Water Survey of Canada, and 3 stations cost shared with OMNR).	$166,720	$ 23,500	$190,220
		ANNUAL PAYMENT	$190,220

D. ANNUAL PAYMENT for 1984-85 to be paid to Receiver General of Canada by Ontario Ministry of Natural Resources.

	Operation	Construction	Total
a) Streamflow and water level installations (146 stations operated by and 10 stations cost shared with Water Survey of Canada and 3 stations cost shared with MOE, and 3 stations cost shared with OH).	$520,640	$105,500	$626,140
b) Sediment installations (1 station operated by Water Survey of Canada).	$ 1,500	$ Nil	$ 1,500
c) Specialized Equipment (operation of 11 DCP's) (2 cost shared with OH).	$ 12,800	$ Nil	$ 12,800
		ANNUAL PAYMENT	$640,440

(Signature)

Director of Water Resources Branch
Ministry of Environment

(Signature)

Director of Conservation Authorities
and Water Management Branch
Ministry of Natural Resources

ADMINISTRATORS FOR PROVINCE

(Signature) 4/5/84

Regional Director
Inland Waters Directorate

ADMINISTRATOR FOR CANADA

APPENDIX C

CHANGES TO NETWORK AND SCHEDULE "A"

Table C.1 - Changes in Gauging Network
April 1, 1984 to April 1, 1985

Table C.2 - Changes to Schedule "A"
April 1, 1984 to April 1, 1985

TABLE C.1

CHANGES IN GAUGING NETWORK - APRIL 1, 1984 TO APRIL 1, 1985

(PROVINCE OF ONTARIO)

A) HYDROMETRIC STATIONS ADDED

1.	02FF009	Ausable River Nr. Exeter	QR	P2-MOE	Aug. 27 1984
2.	02FE014	Blyth Brook Below Blyth	QR	P1-MNR	Nov. 28 1984
3.	02MA003	Cataraqui River at Kingston Mills	QR	FED.-1	Oct. 30 1984
4.	02BB004	Cedar Creek Nr. Hemlo	QR	P1-MOE	Nov. 14 1984
5.	05PB022	Eye R. nr. Bending Lk. Rd. nr. Atikokan	QR	FED.-1	-1985-
6.	05PB021	Eye R. u/s of Bending Lk. Rd. nr. Atikokan	QR	FED.-1	-1985-
7.	02GA041	Grand River Nr. Dundalk	QR	P2-MOE	Sep. 12 1984
8.	05QB001	Lac Seul at Lac Seul	HR	FED.-1	-1985-
9.	02HL006	Parks Creek Nr. Latta	QR	P1-MNR	Nov. 13 1984

B) SEDIMENT STATIONS ADDED

1.	02GD021	Thames River at Innerkip	FED. 1-SED.	Sep. 01 1984
2.	02HC024	Don R. at Todmorden (Freshet-May 31)	FED.-1-SED.	Feb. 01 1985
3.	02GE007	McGregor Cr. Nr. Chatham (Freshet-May 31)	FED.-1-SED.	Feb. 01 1985
4.	02GG003	Sydenham R. at Florence (Freshet-May 31)	FED.-1-SED.	Feb. 01 1985
5.	04ME003	Abitibi River at Onakawana (Misc. Sed.)	FED.-1-SED.	Apr. 01 1985
6.	02FF007	Bayfield R. Nr. Varna (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
7.	02BB002	Black R. Nr. Marathon (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
8.	02GC018	Catfish Cr. Nr. Sparta (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
9.	02GA039	Conestoga R. Above Drayton (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
10.	02HC030	Etobicoke Cr. Below Q.E.W. (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
11.	02GB007	Fairchild Cr. Nr. Brantford (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
12.	02HD012	Ganaraska R. Above Dale (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
13.	02GB001	Grand R. Nr. Brantford (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
14.	02AE001	Gravel R. Nr. Cavers (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
15.	02HC013	Highland Cr. Nr. West Hill (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
16.	02GC002	Kettle Ck. at St. Thomas (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
17.	02GC015	Little Otter Ck. Nr. Straffordville (Misc.Sed.)	FED.-1-SED.	Apr. 01 1985
18.	02KF006	Mississippi R. at Appleton (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
19.	02HL001	Moira R. Nr. Foxboro (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
20.	02GC022	Nanticoke Ck. at Nanticoke (Misc. Sed.)	FED.-1-SED.	Apr. 01 1985
21.	02HM007	Napanee R. Nr. Camden East (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
22.	02GA010	Nith River Nr. Canning (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
23.	02GD015	N. Thames R. Nr. Thorndale (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
24.	02FF008	Parkhill Cr. Ab. Parkhill Res.(Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
25.	02MC001	Raisin R. Nr. Williamstown (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
26.	02HA014	Redhill Cr. at Hamilton (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985
27.	02HM003	Salmon R. Nr. Shannonville (Misc. Sed.)	FED.-1-SED.	Feb. 01 1985

C) HYDROMETRIC STATIONS DISCONTINUED

1.	02GA036	Canagagigue Creek Nr. Floradale	QR	FED.-1	Feb. 01 1985
2.	02GA035	East Canagagigue Cr. Nr. Floradale	QR	FED.-1	Feb. 01 1985
3.	02KC014	Indian River Nr. Pembroke	QR	P1-MOE	Feb. 01 1985
4.	02HA013	Niagara R. at Ft. Erie Customs Dock	HR	FED.-3	Jan. 10 1985
5.	02HA012	Niagara River Below I.B.M. 35	HR	FED.-3	Dec. 19 1984
6.	02HA008	Niagara River Below Peace Bridge	HR	FED.-3	Jan. 10 1985
7.	02GA032	OAC Farm Gauge No. 5 at Guelph	QR	FED.-1	Dec. 31 1984
8.	02CD005	Rochester Creek Above Quirke Lake	QR	P1-MOE	Feb. 01 1985

D) SEDIMENT STATIONS DISCONTINUED

1.	02GA036	Canagagigue Cr. Nr. Flordadale	FED.-1-SED.	Dec. 31 1984
2.	02GA035	E. Canagagigue Cr. Nr. Floradale	FED.-1-SED.	Dec. 31 1984
3.	02GA032	OAC Farm Gauge No. 5 at Guelph	FED.-1-SED.	Dec. 31 1984

E) CONTRIBUTED DATA STATIONS ADDED

1.	02GG012	Lake Huron Outflow to St. Clair River -for Great Lakes Interconnecting Channels Flow Data Bank	Q	Apr. 01 1985
2.	02GH012	Lake St. Clair Outflow to Detroit River -for Great Lakes Interconnecting Channels Flow Data Bank	Q	Apr. 01 1985
3.	02HA019	Welland Canal Diversion From Lake Erie -for Great Lakes Interconnecting Channels Flow Data Bank	Q	Apr. 01 1985
4.	02HK802	Trent R. at Healey Falls (Pow. Plant) added to schedule A as a component station to Trent R. at Healey Falls (composite)	QP	Apr. 01 1985

F) CHANGES IN CLASSIFICATION AND/OR FUNDING OF HYDROMETRIC STATIONS

(EFFECTIVE APRIL 1, 1985)

1.	04ME003	Abitibi River at Onakawana	FED.-1 to FED.-4
2.	04HA001	Albany River Nr. Hat Island	FED.-1 to FED.-4
3.	04DB001	Asheweig River at Straight Lake	FP1-MOE to FP3-MOE
4.	04FB001	Attawapiskat R, Below Attawapiskat Lk.	FED.-1 to FED.-4
5.	04FC001	Attawapiskat R. Below Muketei Lake	FED.-1 to FED.-4
6.	02GG006	Bear Creek Nr. Petrolia	P1-MOE/MNR to P2-MOE/MNR
7.	04CE001	Big Trout Lake at Trout Lake	FED.-1 to FED.-4
8.	02KC009	Bonnechere River Nr. Castleford	FP1-OH to FP2-OH
9.	04GB005	Brightsand River at Moberly Lake	FED.-1 to FED.-4
10.	04GA002	Cat River Below Wesleyan Lake	FP1-MOE to FP3-MOE
11.	04EA001	Ekwan River Below N. Washagami R.	FED.-1 to FED.-4
12.	04CE002	Fawn River Below Big Trout Lake	FED.-1 to FED.-4
13.	04MD002	Frederick House R. at F.H. Lk. Dam	FP1-OH to FP2-OH (Operator)
14.	04KA002	Halfway Creek at Moosonee	FED.-1 to FED.-4
15.	02LA007	Jock River Nr. Richmond	FP1-MNR to FP2-MNR
16.	04JA002	Kabinakagami River at Hwy. 11	FED.-1 to FED.-4
17.	04KA001	Kwataboahegan R. Nr. The Mouth	FP1-MOE to FED.-4
18.	02JD011	Lady Evelyn R. at Lady Evelyn Lk. Dam	FP1-OH to FP2-OH (Operator)
19.	05PD027	Lake 114 nr. Kenora	FED.-1 to Contributed (Other Fed.)
20.	05PD014	Lake 114 Outlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
21.	05QD021	Lake 223 nr. Kenora	FED.-1 to Contributed (Other Fed.)
22.	05QD017	Lake 223 Outlet nr. Kenora	FED.-1 to Contributed (Other Fed.)

F) CHANGES IN CLASSIFICATION AND/OR FUNDING OF HYDROMETRIC STATIONS (CONT'D)

(EFFECTIVE APRIL 1, 1985)

23.	05QD018	Lake 224 Outlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
24.	05QD019	Lake 225 Outlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
25.	05QD015	Lake 226 Outlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
26.	05QD008	Lake 227 Outlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
27.	05QD009	Lake 227 nr. Kenora	FED.-1 to Contributed (Other Fed.)
28.	05PD021	Lake 239 nr. Kenora	FED.-1 to Contributed (Other Fed.)
29.	05PD023	Lake 239 Outlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
30.	05PD024	Lake 239 Lower East Inlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
31.	05PD025	Lake 239 Upper East Inlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
32.	05PD015	Lake 240 Outlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
33.	05QD022	Lake 302 nr. Kenora	FED.-1 to Contributed (Other Fed.)
34.	05QD023	Lake 302 Outflow nr. Kenora	FED.-1 to Contributed (Other Fed.)
35.	05PD020	Lake 303 nr. Kenora	FED.-1 to Contributed (Other Fed.)
36.	05PD019	Lake 303 Outlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
37.	05PD018	Lake 304 nr. Kenora	FED.-1 to Contributed (Other Fed.)
38.	05PD017	Lake 470 Outlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
39.	05PD028	Lake 661 Outlet nr. Kenora	FED.-1 to Contributed (Other Fed.)
40.	02DD006	Lake Nipissing at North Bay	FP1-MNR to FP2-MNR
41.	02HC028	Little Rouge Cr. Nr. Locust Hill	FED.-1 to FED-3
42.	02KD007	Madawaska R. at Bark Lake Dam	FP1-OH to FP2-OH (Operator)
43.	02KD004	Madawaska R. at Palmer Rapids	FP1-OH to FP2-OH
44.	02EA006	Magnetawan R. Nr. Burks Falls	FED.-3 to FED.-4
45.	04LM001	Missinaibi R. Below Waboose R.	FP1-OH to FP2-OH
46.	04LG004	Moose River Above Moose River	FED.-1 to FED.-4
47.	04GF001	Muswabik R. at Outlet of Muswabik Lk.	FED.-1 to FED.-4
48.	02EA005	N. Magnetawan R. Nr. Burks Falls	FED.-3 to FED.-4
49.	05PD022	N.W. Tributary to Lake 239 nr. Kenora	FED.-1 to Contributed (other Fed.)
50.	04GB004	Ogoki R. Above Whiteclay Lake	FP1-MOE to FP3-MOE
51.	04FA001	Otoskwin R. Below Badesdawa Lake	FP1-MOE to FP3-MOE
52.	04FA003	Pineimuta River at Eyes Lake	FP1-MOE to FP3-MOE
53.	04DA001	Pipestone River at Karl Lake	FP1-MOE to FP3-MOE
54.	04CA003	Roseberry R. Above Roseberry Lakes	FP1-MOE to FP3-MOE
55.	04CD002	Sachigo R. Below Outlet of Sachigo Lk.	FP1-MOE to FP3-MOE

56.	04CA001	Sandy Lake at Sandy Lake	FED.-1 to FED.-4
57.	04CC001	Severn River at Limestone Rapids	FED.-1 to FED.-4
58.	04CA004	Severn R. Below Outlet of Deer Lake	FP1-MOE to FP3-MOE
59.	04CA002	Severn R. at Outlet of Muskrat Dam Lk.	FP1-MOE to FP3-MOE
60.	04JC003	Shekak River at Hwy. 11	FED.-1 to FED.-4
61.	02CA003	St. Marys R. Nr. Garden River	FED.-1 to FED.-3
62.	02DC008	Temagami R. at Red Cedar Lk. Dam	FP1-OH to FP2-OH (Operator)
63.	02GE003	Thames River at Thamesville	FED.-4 to FED.-3
64.	02DB005	Wanapitei River Nr. Wanup	FED.-4 to FED.-3
65.	04MB003	Watabeag R. at Watabeag Lk. Dam	FP1-OH to FP2-OH (Operator)
66.	02JD012	W. Montreal R. at Mistinikon Lake Dam	FP1-OH to FP2-OH (Operator)
67.	02HD009	Wilmot Creek Near Newcastle	FP1-MOE to FED.-3
68.	04CB001	Windigo R. Above Muskrat Dam Lake	FP1-MOE to FP3-MOE
69.	04DC001	Winisk R. Below Asheweig R. Trib.	FED.-1 to FED.-4
70.	02KD002	York River Nr. Bancroft	FP1-OH to FP2-OH

G) CHANGES IN CLASSIFICATION AND/OR FUNDING OF SEDIMENT STATIONS

- NIL -

H) OTHER CHANGES

1.	04LG004	Moose River Above Moose River - changed from conventional to remote	(FED.-4)
2.	02HB010	Spencer Creek at Dundas Crossing - Name changed to "At Dundas" due to gauge relocation	(FED.-3)
3.	02HK002	Trent River at Healey Falls (Composite Station) -replaced by component stations:	(FED.-1)
	02HK802	Trent River at Healey Falls (Power Plant)	(Contrib. by OH)
	02HK902	Trent River at Healey Falls (Spillway)	(FED.-1)
4.	02LB005	South Nation River Nr. Plantagenet Springs -Sediment program reduced to seasonal (freshet to May 31)	

TABLE C.2

CHANGES TO SCHEDULE A - APRIL 1, 1985

(PROVINCE OF ONTARIO)

FEDERAL CATEGORIES (HYDROMETRIC)

I. FEDERAL 1 : Net Change = -39

1.	02MA003	Cataraqui R. at Kingston Mills	New	Oct. 30 1984
2.	05PB022	Eye R. nr. Bending Lk. Rd. nr. Atikokan	New	-1985-
3.	05PB021	Eye R. u/s of Bending Lk. Rd. nr. Atikokan	New	-1985-
4.	02QB001	Lac Seul at Lac Seul	New	-1985-
5.	02GA036	Canagagigue Cr. Nr. Floradale	Disc.	Feb. 01 1985
6.	02GA035	E. Canagagigue Cr. Nr. Floradale	Disc.	Feb. 01 1985
7.	02GA032	OAC Farm Gauge No. 5 at Guelph	Disc.	Dec. 31 1984
8.	02HK002	Trent R. at Healey Falls (Comp. Stn)	Off SCH A	Apr. 01 1985
9.	04ME003	Abitibi River at Onakawana	To FED.-4	Apr. 01 1985
10.	04HA001	Albany River Nr. Hat Island	To FED.-4	Apr. 01 1985
11.	04FB001	Attawapiskat R. Below Attawapiskat	To FED.-4	Apr. 01 1985
12.	04FC001	Attawapiskat R. Below Muketei R.	To FED.-4	Apr. 01 1985
13.	04CE001	Big Trout Lake at Trout Lake	To FED.-4	Apr. 01 1985
14.	04GB005	Brightsand River at Moberly Lake	To FED.-4	Apr. 01 1985
15.	04EA001	Ekwan River Below N. Washagami River	To FED.-4	Apr. 01 1985
16.	04CE001	Fawn River Below Big Trout Lake	To FED.-4	Apr. 01 1985
17.	04KA002	Halfway Creek at Moosonee	To FED.-4	Apr. 01 1985
18.	04JA002	Kabinakagami River at Hwy. 11	To FED.-4	Apr. 01 1985
19.	05PD027	Lake 114 nr. Kenora	To Contributed	Apr. 01 1985
20.	05PD014	Lake 114 Outlet nr. Kenora	To Contributed	Apr. 01 1985
21.	05QD021	Lake 223 nr. Kenora	To Contributed	Apr. 01 1985
22.	05QD017	Lake 223 Outlet nr. Kenora	To Contributed	Apr. 01 1985
23.	05QD018	Lake 224 Outlet nr. Kenora	To Contributed	Apr. 01 1985
24.	05QD019	Lake 225 Outlet nr. Kenora	To Contributed	Apr. 01 1985
25.	05QD015	Lake 226 Outlet nr. Kenora	To Contributed	Apr. 01 1985
26.	05QD008	Lake 227 Outlet nr. Kenora	To Contributed	Apr. 01 1985
27.	05QD009	Lake 227 nr. Kenora	To Contributed	Apr. 01 1985
28.	05PD021	Lake 239 nr. Kenora	To Contributed	Apr. 01 1985
29.	05PD023	Lake 239 Outlet nr. Kenora	To Contributed	Apr. 01 1985
30.	05PD024	Lake 239 Lower East Inlet nr. Kenora	To Contributed	Apr. 01 1985
31.	05PD025	Lake 239 Upper East Inlet nr. Kenora	To Contributed	Apr. 01 1985
32.	05PD015	Lake 240 Outlet nr. Kenora	To Contributed	Apr. 01 1985
33.	05QD022	Lake 302 nr. Kenora	To Contributed	Apr. 01 1985
34.	05QD023	Lake 302 Outflow nr. Kenora	To Contributed	Apr. 01 1985
35.	05PD020	Lake 303 nr. Kenora	To Contributed	Apr. 01 1985
36.	05PD019	Lake 303 Outlet nr. Kenora	To Contributed	Apr. 01 1985
37.	05PD018	Lake 304 nr. Kenora	To Contributed	Apr. 01 1985
38.	05PD017	Lake 470 Outlet nr. Kenora	To Contributed	Apr. 01 1985
39.	05PD028	Lake 661 Outlet nr. Kenora	To Contributed	Apr. 01 1985
40.	02HC028	Little Rouge Creek Nr. Locust Hill	To FED.-3	Apr. 01 1985
41.	04LG006	Moose River Above Moose River	To FED.-4	Apr. 01 1985

FEDERAL CATEGORIES (HYDROMETRIC) (CONT'D)

I. FEDERAL 1 : Net Change = -39

42.	04GF001	Muswabik R. at Outlet of Muswabik Lk.	To FED.-4	Apr. 01 1985
43.	05PD022	N.W. Tributary to Lake 239 nr. Kenora	To Contributed	Apr. 01 1985
44.	04CA001	Sandy lake at Sandy Lake	To FED.-4	Apr. 01 1985
45.	04CC001	Severn River at Limestone Rapids	To FED.-4	Apr. 01 1985
46.	04JC003	Shekak River at Hwy. 11	To FED.-4	Apr. 01 1985
47.	02CA003	St. Marys River Nr. Garden River	To FED.-3	Apr. 01 1985
48.	02HK902	Trent R. at Healey Falls (Spillway)	Onto SCH.A	Apr. 01 1985
49.	04DC001	Winisk River Below Ashweig River Trib.	To FED.- 4	Apr. 01 1985

II. FEDERAL 2 : Net Change = 0

- NIL -

III. FEDERAL 3 : Net Change = 0

1.	02HA013	Niagara River at Ft. Erie Customs Dock	Disc.	Jan. 10 1985
2.	02HA012	Niagara River Below I.B.M. 35	Disc.	Dec. 19 1984
3.	02HA008	Niagara River Below Peace Bridge	Disc.	Jan. 10 1985
4.	02HC028	Little Rouge Creek Nr. Locust Hill	From FED.-1	Apr. 01 1985
5.	02CA003	St. Marys River Nr. Garden River	From FED.-1	Apr. 01 1985
8.	02GE003	Thames River Thamesville	From FED.-4	Apr. 01 1985
7.	02DB005	Wanapitei River Nr. Wanup	From FED.-4	Apr. 01 1985
8.	02HD009	Wilmot Creek Nr. Newcastle	From FP1-MOE	Apr. 01 1985
9.	02EA006	Magnetawan River Nr. Burks Falls	To FED.-4	Apr. 01 1985
10.	02EA005	N. Magnetawan River Nr. Burks Falls	To FED.-4	Apr. 01 1985

IV. FEDERAL 4 : Net Change = +17

1.	04ME003	Abitibi River at Onakawana	From FED.-1	Apr. 01 1985
2.	04HA001	Albany River Nr. Hat Island	From FED.-1	Apr. 01 1985
3.	04FB001	Attawapiskat R. Below Attawapiskat Lk.	From FED.-1	Apr. 01 1985
4.	04FC001	Attawapiskat R. Below Muketei R.	From FED.-1	Apr. 01 1985
5.	04CE001	Big Trout Lake at Trout Lake	From FED.-1	Apr. 01 1985
6.	04GB005	Brightsand River at Moberly Lake	From FED.-1	Apr. 01 1985
7.	04EA001	Ekwan River Below N. Washagami R.	From FED.-1	Apr. 01 1985
8.	04CE002	Fawn R. Below Big Trout Lake	From FED.-1	Apr. 01 1985
9.	04KA002	Halfway Creek at Moosonee	From FED.-1	Apr. 01 1985
10.	04JA002	Kabinakagami River at Hwy. 11	From FED.-1	Apr. 01 1985
11.	04KA001	Kwatabohegan River Nr. The Mouth	From FP1-MOE	Apr. 01 1985
12.	02EA006	Magnetawan River Nr. Burks Falls	From FED.-3	Apr. 01 1985
13.	04LG004	Moose River Above Moose River	From FED.-1	Apr. 01 1985
14.	04GF 001	Muswabik R. at Outlet of Muswabik Lk.	From FED.-1	Apr. 01 1985
15.	02EA005	N. Magnetawan River Nr. Burks Falls	From FED.-3	Apr. 01 1985
16.	04CA001	Sandy Lake at Sandy Lake	From FED.-1	Apr. 01 1985
17.	04CC001	Severn River at Limestone Rapids	From FED.-1	Apr. 01 1985
18.	04JC003	Shekak River at Hwy. 11	From FED.-1	Apr. 01 1985
19.	04DC001	Winisk River at Thamesville	From FED.-1	Apr. 01 1985
20.	02GE003	Thames River at Thamesville	To FED.-3	Apr. 01 1985
21.	02DB005	Wanapitei River Nr. Wanup	To FED.-3	Apr. 01 1985

FEDERAL PROVINCIAL CATEGORIES (HYDROMETRIC)

I. FEDERAL-PROVINCIAL 1 - ONT. HYD. (OPERATOR)* : Net Change = -6

1.	04MD002	Frederick House R. at F.H. Lk. Dam	To FP2-OH*	Apr. 01 1985
2.	02JD011	Lady Evelyn R. at Lady Evelyn Lk. Dam	To FP2-OH*	Apr. 01 1985
3.	02KD007	Madawaska R. at Bark Lake Dam	To FP2-OH*	Apr. 01 1985
4.	02DC008	Temagami R. at Red Cedar Lake Dam	To FP2-OH*	Apr. 01 1985
5.	04MB003	Watabeag River at Watabeag Lake Dam	To FP2-OH*	Apr. 01 1985
6.	02JD012	W. Montreal R. at Mistinikon Lake Dam	To FP2-OH*	Apr. 01 1985

*Operator: Ontario Hydro

II. FEDERAL-PROVINCIAL 1 - ONT. HYD. : Net Change = -4

1.	02KC009	Bonnechere River Nr. Castleford	To FP2-OH	Apr. 01 1985
2.	02KD004	Madawaska R. at Palmer Rapids	To FP2-OH	Apr. 01 1985
3.	04LM001	Missinaibi R. Below Waboose River	To FP2-OH	Apr. 01 1985
4.	02KD002	York River Nr. Bancroft	To FP2-OH	Apr. 01 1985

III. FEDERAL-PROVINCIAL 1 - OMOE : Net Change = -13

1.	04DB001	Asheweig River at Straight Lake	To FP3-MOE	Apr. 01 1985
2.	04GA002	Cat River Below Wesleyan Lake	To FP3-MOE	Apr. 01 1985
3.	04KA001	Kwataboahegan R. Nr. The Mouth	To FED.-4	Apr. 01 1985
4.	04GB004	Ogoki R. Above Whiteclay Lake	To FP3-MOE	Apr. 01 1985
5.	04FA001	Otoskwin R. Below Badesdawa Lake	To FP3-MOE	Apr. 01 1985
6.	04FA003	Pineimuta River at Eyes Lake	To FP3-MOE	Apr. 01 1985
7.	04DA001	Pipestone River at Karl Lake	To FP3-MOE	Apr. 01 1985
8.	04CA003	Roseberry River Above Roseberry Lakes	To FP3-MOE	Apr. 01 1985
9.	04CD002	Sachigo R.Below Outlet of Sachigo Lk.	To FP3-MOE	Apr. 01 1985
10.	04CA004	Severn River Below Outlet of Deer Lk.	To FP3-MOE	Apr. 01 1985
11.	04CA002	Severn R. at Outlet of Muskrat Dam Lk.	To FP3-MOE	Apr. 01 1985
12.	04CB001	Windigo River Above Muskrat Dam Lk.	To FP3-MOE	Apr. 01 1985
13.	02HD009	Wilmot Creek Near Newcastle	To FED.-3	Apr. 01 1985

IV. FEDERAL-PROVINCIAL 1- OMNR : Net Change = -2

1.	02LA007	Jock River Nr. Richmond	To FP2-MNR	Apr. 01 1985
2.	02DD006	Lake Nipissing at North Bay	To FP2-MNR	Apr. 01 1985

V. FEDERAL-PROVINCIAL 2 - ONT. HYD. : Net Change = +4

1.	02KC009	Bonnechere R. Nr. Castleford	From FP1-OH	Apr. 01 1985
2.	02KD004	Madawaska R. at Palmer Rapids	From FP1-OH	Apr. 01 1985
3.	04LM001	Missinaibi R. Below Waboose R.	From FP1-OH	Apr. 01 1985
4.	02KD002	York River Nr. Bancroft	From FP1-OH	Apr. 01 1985

VI. FEDERAL-PROVINCIAL 2 - OMNR : Net Change = + 2

1.	02LA007	Jock River Nr. Richmond	From FP1-MNR	Apr. 01 1985
2.	02DD006	Lake Nipissing at North Bay	From FP1-MNR	Apr. 01 1985

VII. FEDERAL-PROVINCIAL 2 - ONT. HYD. (OPERATOR)* : Net Change +6

1.	04MD002	Frederick House R. at F. H. Lake Dam	From FP1-OH*	Apr. 01 1985
2.	02JD011	Lady Evelyn R. at Lady Evelyn Lk. Dam	From FP1-OH*	Apr. 01 1984
3.	02KD007	Madawaska R. at Bark Lake Dam	From FP1-OH*	Apr. 01 1985
4.	02DC008	Temagami R. at Red Cedar Lake Dam	From FP1-OH*	Apr. 01 1985
5.	04MB003	Watabeag R. at Watabeag Lake Dam	From FP1-OH*	Apr. 01 1985
6.	02JD012	W. Montreal R. at Mistinikon Lk. Dam	From FP1-OH*	Apr. 01 1985

* Operator: Ontario Hydro

VIII. FEDERAL-PROVINCIAL 3 - OMOE Net Change = +11

1.	04DB001	Asheweig R. at Straight Lake	From FP1-MOE	Apr. 01 1985
2.	04GA002	Cat River Below Wesleyan Lake	From FP1-MOE	Apr. 01 1985
3.	04GB004	Ogoki River Above White Clay Lk.	From FP1-MOE	Apr. 01 1985
4.	04FA001	Otoskwin River Below Badesdawa Lk.	From FP1-MOE	Apr. 01 1985
5.	04FA003	Pineimuta R. at Eyes Lake	From FP1-MOE	Apr. 01 1985
6.	04DA001	Pipestone R. at Karl Lake	From FP1-MOE	Apr. 01 1985
7.	04CA003	Roseberry R. Above Roseberry Lks.	From FP1-MOE	Apr. 01 1985
8.	04CD002	Sachigo R. Below Outlet of Sachigo Lk.	From FP1-MOE	Apr. 01 1985
9.	04CA004	Severn R. Below Outlet of Deer Lk.	From FP1-MOE	Apr. 01 1985
10.	04CA002	Severn R. at Outlet of Muskrat Dam Lk.	From FP1-MOE	Apr. 01 1985
11.	04CB001	Windigo R. Above Muskrat Dam Lake	From FP1-MOE	Apr. 01 1985

PROVINCIAL CATEGORIES (Hydrometric)

I. PROVINCIAL 1 - ONT. HYD. : Net Change = 0

- NIL -

II. PROVINCIAL 1 - OMOE : Net Change = -1

1.	02BB004	Cedar Creek Nr. Hemlo	New	Nov. 14 1984
2.	02KC014	Indian River Nr. Pembroke	Disc.	Feb. 01 1985
3.	02CD005	Rochester Crk. Above Quirke Lake	Disc.	Feb. 01 1985

III. PROVINCIAL 1 - OMNR : Net Change = +2

1.	02FE014	Blyth Brook Below Blyth	New	Nov. 28 1984
2.	02HL006	Parks Creek Nr. Latta	New	Nov. 13 1984

IV. PROVINCIAL 1 - OMOE/OMNR : Net Change = -1

1.	02GG006	Bear Creek Nr. Petrolia	To P2-MOE/MNR	Apr. 01 1985

V. PROVINCIAL 1 - ONT. HYD./OMNR : Net Change = 0

- NIL -

VI. PROVINCIAL 2 - OMOE : Net Change = +2

1.	02FF009	Ausable River Nr. Exeter	New	Aug. 27 1984
2.	02GA041	Grand River Nr. Dundalk	New	Sep. 12 1984

VII. PROVINCIAL 2 - OMOE/OMNR : Net Change = +1

1.	02GG006	Bear Creek Nr. Petrolia	From P1-MOE/MNR	Apr. 01 1985

SEDIMENT DATA CATEGORIES

I. FEDERAL DEPARTMENT PROGRAMS : Net Change = +24

1.	02GD021	Thames R. at Innerkip	New	Sep. 01 1984
2.	02HC024	Don River at Todmorden (Freshet-May 31)	New	Feb. 01 1985
3.	02GE007	McGregor Cr. Nr. Chatham (Freshet- May 31)	New	Feb. 01 1985
4.	02GG003	Sydenham R. at Florence (Freshet- May 31)	New	Feb. 01 1985
5.	04ME003	Abitibi River at Onakawana (Misc. Sed.)	New	Apr. 01 1985
6.	02FF007	Bayfield R. Nr. Varna (Misc. Sed.)	New	Feb. 01 1985
7.	02BB002	Black R. Nr. Marathon (Misc. Sed.)	New	Feb. 01 1985
8.	02GC018	Catfish Crk. Nr. Sparta (Misc. Sed.)	New	Feb. 01 1985
9.	02GA039	Conestoga R. Above Drayton (Misc. Sed.)	New	Feb. 01 1985
10.	02HC030	Etobicoke Crk. Below Q.E.W. (Misc. Sed.)	New	Feb. 01 1985
11.	02GB007	Fairchild Crk. Nr. Brantford (Misc. Sed.)	New	Feb. 01 1985
12.	02HD012	Ganaraska R. Above Dale (Misc. Sed.)	New	Feb. 01 1985
13.	02GB001	Grand R. Nr. Brantford (Misc. Sed.)	New	Feb. 01 1985
14.	02AE001	Gravel R. Nr. Cavers (Misc. Sed.)	New	Feb. 01 1985
15.	02HC013	Highland Crk. Nr. West Hill (Misc. Sed.)	New	Feb. 01 1985
16.	02GC002	Kettle Cr. at St. Thomas (Misc. Sed.)	New	Feb. 01 1985
17.	02GC013	Little Otter Ck. Nr. Straffordville(Misc. Sed.)	New	Apr. 01 1985
18.	02KF006	Mississippi R. at. Appleton (Misc. Sed.)	New	Feb. 01 9185
19.	02HL001	Moira R. Nr. Foxboro (Misc. Sed.)	New	Feb. 01 1985
20.	02GC022	Nanticoke Ck. at Nanticoke (Misc. Sed.)	New	Apr. 01 1985
21.	02HM007	Napanee r. Nr. Camden E. (Misc. Sed.)	New	Feb. 01 1985
22.	02GA010	Nith R. Nr. Canning (Misc. Sed.)	New	Feb. 01 1985
23.	02GD015	N. Thames R. Nr. Thorndale (Misc. Sed.)	New	Feb. 01 1985
24.	02FF008	Parkhill Cr. Ab. Parkhill Res.(Misc. Sed.)	New	Feb. 01 1985
25.	02MC001	Raisin R. Nr. Williamstown (Misc. Sed.)	New	Feb. 01 1985
26.	02HA014	Redhill Crk. at Hamilton (Misc. Sed.)	New	Feb. 01 1985
27.	02HM003	Salmon R. Nr. Shannonville (Mis. Sed.)	New	Feb. 01 1984
28.	02GA036	Canagagigue Cr. Nr. Floradale	Disc.	Dec. 31 1984
29.	02GA035	E. Canagagigue Cr. Nr. Floradale	Disc.	Dec. 31 1984
30.	02GA032	O.A.C. Farm Gauge No. 5 at Guelph	Disc.	Dec. 31 1984

II. OPERATED BY W.S.C. FOR PROVINCE (OMNR) : Net Change = 0

- NIL -

CONTRIBUTED DATA CATEGORIES

I. OPERATED BY W.S.C., DATA FROM MEDS/CHS : Net Change = 0

- NIL -

II. OPERATED BY ONT. HYD. : Net Change = +1

1.	02HK802	Trent R. at Healey Falls (Power Plant)	ONTO SCH.A	Apr. 01 1985

III. OPERATED BY OMOE : Net Change = 0

- NIL -

IV. OPERATED BY PRIVATE AGENCY : Net Change = 0

- NIL -

V. OPERATED BY OTHER FEDERAL AGENCY : Net Change = +25

1.	02GG012	Lake Huron Outflow to St. Clair River	New	Apr. 01 1985
2.	02GH012	Lake St. Clair Outflow to Detroit River	New	Apr. 01 1985
3.	02HA019	Welland Canal Diversion From Lake Erie	New	Apr. 01 1985
4.	05PD027	Lake 114 nr. Kenora	From FED. 1	Apr. 01 1985
5.	05PD014	Lake 114 Outlet nr. Kenora	From FED. 1	Apr. 01 1985
6.	05QD021	Lake 223 nr. Kenora	From FED. 1	Apr. 01 1985
7.	05QD017	Lake 223 Outlet nr. Kenora	From FED. 1	Apr. 01 1985
8.	05QD018	Lake 224 Outlet nr. Kenora	From FED. 1	Apr. 01 1985
9.	05QD019	Lake 225 Outlet nr. Kenora	From FED. 1	Apr. 01 1985
10.	05QD015	Lake 226 Outlet nr. Kenora	From FED. 1	Apr. 01 1985
11.	05QD008	Lake 227 Outlet nr. Kenora	From FED. 1	Apr. 01 1985
12.	05QD009	Lake 227 nr. Kenora	From FED. 1	Apr. 01 1985
13.	05PD021	Lake 239 nr. Kenora	From FED. 1	Apr. 01 1985
14.	05PD023	Lake 239 Outlet nr. Kenora	From FED. 1	Apr. 01 1985
15.	05PD024	Lake 239 Lower East Inlet nr. Kenora	From FED. 1	Apr. 01 1985
16.	05PD025	Lake 239 Upper East Inlet nr. Kenora	From FED. 1	Apr. 01 1985
17.	05PD015	Lake 240 Outlet nr. Kenora	From FED. 1	Apr. 01 1985
18.	05QD022	Lake 302 nr. Kenora	From FED. 1	Apr. 01 1985
19.	05QD023	Lake 302 Outflow nr. Kenora	From FED. 1	Apr. 01 1985
20.	05PD020	Lake 303 nr. Kenora	From FED. 1	Apr. 01 1985
21.	05PD019	Lake 303 Outlet nr. Kenora	From FED. 1	Apr. 01 1985
22.	05PD018	Lake 304 nr. Kenora	From FED. 1	Apr. 01 1985
23.	05PD017	Lake 470 Outlet nr. Kenora	From FED. 1	Apr. 01 1985
24.	05PD028	Lake 661 Outlet nr. Kenora	From FED. 1	Apr. 01 1985
25.	05PD022	N.W. Tributary to Lake 239 nr. Kenora	From FED. 1	Apr. 01 1985

APPENDIX D

DERIVATION OF ACTUAL COSTS 1984/85

TABLE D.1

Salaries and Operating and Maintenance Costs for Hydrometric Network Operated by WRB Ontario Region, 1984/85.

1. Salaries

Hydrometric Supervisors	$178,537
Hydrometric Technicians	534,810
Other - Students, part-time, field help, construction (minor maintenance) etc.	69,135
$782,482 Less Salary For Sediment Networks	30,520
Net Salaries for Hydrometric Network	$751,962

2. Operating and Maintenance

	Common	Conventional	Remote
Transportation and Communications	$113,566		
Professional and Special Services	8,589	$13,956	
Rentals		17,110	$102,949
Purchased Repairs and Upkeep	46,571		
Utilities, Materials and Supplies	44,671	88,200	18,168
EDP Shareable Costs (1)		19,549	
Vehicle Depreciation	34,555		
Equipment Depreciation	30,338		
Totals	$314,949	$102,156	$121,117

(1) Based on 1983/84 costs plus 5% (Government Price Index) (Ceiling costs as per National Co-ordinating Committee Meeting - February 6, 1985)

TABLE D.2

DERIVATION OF ACTUAL OPERATING COSTS FOR

HYDROMETRIC STATIONS OPERATED BY WATER RESOURCES BRANCH

ONTARIO REGION IN 1984/85

Responsible Agency	# of Discharge Stations		# of Water Level Stations		Equivalent Station Yrs of Record*		Total Cost	
	Remote	Conventional	Remote	Conventional	Remote	Conventional	Remote	Conventional
Federal (1-4)	16	126(1)	2(2)	8	16.50	132.14	$111,231	$ 422,788
Fed. (Prov.(MOE)	11	7			11.00	7.00	74,154	22,397
Fed. (Prov.(MNR)		9		1		9.50		30,396
Fed. (Prov.(OH)	1	3			1.00	3.00	6,741	9,599
Prov. (MOE)		35(3)				31.98		102,322
Prov. (MNR)	2	144(4)		2	2.00	142.75	13,483	456,736
Prov. (OH)	1	4		1	1.00	4.50	6,741	14,398
Prov. (MOE/MNR)		3				3.00		9,599
Prov. (MNR/OH)	—	3	—	—	—	3.00	—	9,599
	31	344	2	12	31.50	336.87	$212,350	$1,077,834

1) Includes 1 new station operating for 2 mos
2) Includes 2 stations for 6 mos each
3) Includes 3 new stations operating for 7, 6 and 4 mos
4) Includes 2 new stations operating for 4 mos each

*1 water level station equivalent to 1/2 discharge station for costing purposes and includes existing stations operating only a portion of the year.

Unit Costs

Conv. = Sal+O&M = 751,962.00 / 368.37 + 314,949.00 / 368.37 + 102,156.00 / 336.76
= $2,041.32 + $854.98 + $303.25 = $3,199.55

Remote = Sal+O&M = 751,962.00 / 368.37 + 314,949.00 / 368.37 + 121,117.00 / 31.50
= $2,041.32 + $854.98 + $3,844.98 = $6,741.28

TABLE D.3

SUMMARY OF SHAREABLE OPERATING COSTS BY AGENCY FOR

HYDROMETRIC STATIONS OPERATED BY WRB, ONTARIO REGION

Ontario Ministry of Natural Resources				
Conventional	100%	$456,736/1	=	$ 456,736
	50% FED/MNR	30,396/2	=	15,198
	50% MOE/MNR	9,599/2	=	4,800
	50% OH/MNR	9,599/2	=	4,800
Remote	100%	13,483/1	=	13,483
		TOTAL		$ 495,017
Ontario Ministry of Environment				
Conventional	100%	$102,322/1	=	$ 102,322
	50% FED/MOE	22,397/2	=	11,198
	50% MNR/MOE	9,599/2	=	4,800
Remote	50% FED/MOE	74,154/2	=	37,077
		TOTAL		$ 155,397
Ontario Hydro				
Conventional	100%	$ 14,398/1	=	$ 14,398
	50% FED/OH	9,599/2	=	4,800
	50% MNR/OH	9,599/2	=	4,800
Remote	100%	6,741/1	=	6,741
	50% FED/OH	6,741/2	=	3,370
		TOTAL		$ 34,109
Total Provincial Shareable Hydrometric Cost				$ 684,523
Federal				
Conventional	100%	$422,788/1	=	$ 422,788
	50% FED/MOE	22,397/2	=	11,198
	50% FED/MNR	30,396/2	=	15,198
	50% FED/OH	9,599/2	=	4,800
Remote	100%	111,231/1	=	111,231
	50% FED/MOE	74,154/2	=	37,077
	50% FED/OH	6,741/2	=	3,370
Total Federal Shareable Hydrometric Cost		TOTAL		$ 605,662
Grand Total Shareable Hydrometric Cost				$1,290,185

TABLE D.4

ACTUAL EXPENDITURES - SEDIMENT PROGRAM 1984/85

TOTAL ONTARIO REGION PROGRAM	FEDERAL	PROVINCIAL	TOTAL
Number of stations (full station equivalents)	12.00	1.00	13.00
a) Salary	$27,778	+ $2,315	$30,093
b) Operation and Maintenance - Reporting Object			
Transportation and Communcations	772	16	788
Information	157	-	157
Professional and Special Services	2,231	130	2,361
Purchase, Repair, Upkeep	82	2	84
Utilities, Materials and Supplies	58	25	83
Sub-Totals	$ 3,300	$ 173	$ 3,473

c) Laboratory Costs (Provincial Stations Only)

Humber River at Elder Mills	Cost/Sample	# Samples	Total Cost
Bottom Withdrawal	40.38	3	$ 121.14
Total Concentrations	10.76	108	1,162.08
Dissolved Solids	2.16	41	88.56
Total Provincial Laboratory Analysis Costs			$1,371.78

d) Laboratory Costs (Federal Stations Only)

Ausable River nr Springbank	Cost/Sample	# Samples	Total Cost
Bottom Withdrawal	40.38	2	80.76
Total Concentration	10.76	212	$2,281.12
Dissolved Solids	2.16	57	123.12
Total Costs			$2,485.00

Big Creek nr Walsingham	Cost/Sample	# Samples	Total Cost
Total Concentration	10.76	155	$1,667.80
Dissolved Solids	2.16	48	103.68
Total Costs			$1,771.48

Table D.4 (Cont'd)

Big Otter Creek nr Calton	Cost/Sample	# Samples	Total Cost
Bottom Withdrawal	40.38	8	$ 323.04
Total Concentration	10.76	76	817.76
Dissolved Solids	2.16	36	77.76
Total Costs			$1,218.56

Canagagigue Creek nr Floradale	Cost/Sample	# Samples	Total Cost
Total Concentration	10.76	34	$ 365.84
Dissolved Solids	2.16	12	25.92
Total Costs			$ 391.76

Credit River at Erindale	Cost/Sample	# Samples	Total Cost
Bottom Withdrawal	40.38	1	40.38
Total Concentration	10.76	161	$1,732.36
Dissolved Solids	2.16	52	112.32
Total Costs			$1,885.06

East Canagagigue Cr. nr Floradale	Cost/Sample	# Samples	Total Cost
Total Concentration	10.76	49	$ 527.24
Dissolved Solids	2.16	14	30.24
Total Costs			$ 557.48

Table D.4 (Cont'd)

OAC #5 Guelph	Cost/Sample	# Samples	Total Cost
Bottom Withdrawal	40.38	1	$ 40.38
Total Concentration	10.76	38	408.88
Dissolved Solids	2.16	12	25.92
Total Costs			$ 475.18

Nottawasaga River nr Baxter	Cost/Sample	# Samples	Total Cost
Total Concentration	10.76	96	$1,032.96
Dissolved Solids	2.16	33	71.28
Total Costs			$1,104.24

S. Nation River nr Plantagenet Springs	Cost/Sample	# Samples	Total Cost
Total Concentration	10.76	61	$ 656.36
Dissolved Solids	2.16	23	49.68
Total Costs			$ 706.04

Lucknow River at Lucknow	Cost/Sample	# Samples	Total Cost
Total Concentration	10.76	11	$ 118.36
Dissolved Solids	2.16	1	2.16
Total Costs			$ 120.52

Table D.4 (Cont'd)

Oshawa Second Marsh	Cost/Sample	# Samples	Total Cost
Total Concentration	10.76	3	$ 32.28
Dissolved Solids	2.16	2	4.32
Total Costs			$ 36.60

Thames River at Innerkip	Cost/Sample	# Samples	Total Cost
Total Concentration	10.76	43	$ 462.68
Dissolved Solids	2.16	12	25.92
Total Costs			$ 488.60

Goderich Harbour Study	Cost/Sample	# Samples	Total Cost
Sieve Analysis	15.70	29	455.30
Total Costs			$ 455.30

NHRI Glaciology	Cost/Sample	# Samples	Total Cost
Sieve Analysis	15.70	29	455.30
Hydrometer Analysis	30.06	42	1,262.52
Evaporation Analysis	2.92	27	78.84
Dissolved Solids	2.16	27	58.32
Total Costs			$1,854.98

Miscellaneous Northern	Cost/Sample	# Samples	Total Cost
Total Concentration	10.76	10	$ 107.60
Dissolved Solids	2.16	8	17.28
Total Costs			$ 124.88

Table D.4 (Cont'd)

S. Maitland River at Summerhill	Cost/Sample	# Samples	Total Cost
Total Concentration	10.76	77	$ 828.52
Dissolved Solids	2.16	22	47.52
Total Costs			$ 876.04

Harmony Creek at Oshawa	Cost/Sample	# Samples	Total Cost
Bottom Withdrawal	40.38	2	80.76
Total Concentration	10.76	78	$ 839.28
Dissolved Solids	2.16	21	45.36
Sieve Analysis	15.70	4	62.80
Hydrometer Analysis	30.06	2	60.12
Total Costs			$1,088.32

Farewell Creek at Oshawa	Cost/Sample	# Samples	Total Cost
Bottom Withdrawal	40.38	1	40.38
Total Concentration	10.76	78	$ 839.28
Dissolved Solids	2.16	21	45.36
Sieve Analysis	15.70	6	94.20
Hydrometer Analysis	30.06	0	0.00
Total Costs			$1,019.22

Table D.4 (Cont'd)

Miscellaneous Southern	Cost/Sample	# Samples	Total Cost
Total Concentration	10.76	25	$ 269.00
Dissolved Solids	2.16	25	54.00
Total Costs			$ 323.00

Total Federal Laboratory Analysis Costs 1984/85 F.Y. $16,982.26

e) Summary of Provincial Sediment Costs

Salary	$ 2,315.00
O&M	173.00
Laboratory	1,371.78
	$ 3,859.78

f) Summary of Federal Sediment Costs

Salary	$27,778.00
O&M	3,300.00
Laboratory	16,982.26
	$48,060.26

g) Total Sediment Program Costs (Provincial and Federal)

Salary	$30,093.00
O&M	3,473.00
Laboratory	18,354.04
	$51,920.04

TABLE D.5 SUMMARY OF 1984-85 CONSTRUCTION PROGRAM COSTS

PROJECT	FEDERAL		PROVINCIAL-OMOE		PROVINCIAL-OMNR		PROVINCIAL-OH		PROVINCIAL-CA		TOTAL	
	ESTIMATED	ACTUAL**	ESTIMATED	ACTUAL	ESTIMATED	ACTUAL	ESTIMATED	ACTUAL	ESTIMATED	ACTUAL	ESTIMATED	ACTUAL
NEW STATIONS	13,000	-	35,000	33,185	25,000	10,995	-	-	-	-	73,000	44,180
STATION RE-LOCATIONS					25,000	3,116	-	-		-	25,000	3,116
CONTROLS	-	-	7,000	6,265	11,000	3,580	-	-	-	-	18,000	9,845
CABLEWAYS	4,000	5,106	-	-	7,000	10,900	-	-	-	-	11,000	16,006
PURCHASE OF CONSTR. MATERIALS	-	-	-	-	-	-	-	-	-	-	-	-
STATION UPGRADING	5,000	-	3,500	3,935	41,500	25,087	-	-			50,000	29,022
TOTAL	22,000	5,106	45,500	43,385	109,500	53,678	-	-			177,000	102,169

* Does not include Construction Work carried out by WRB, Winnipeg Office in N.W. Ontario.

** Cost of Instrumentation not included. Includes labour, materials, and equipment supplied directly by agency.

APPENDIX E

TABLES FOR NATIONAL REPORT

1. Water Quantity Surveys Gauging Station Data for 1984/85

2. Water Quantity Surveys Comparative Gauging Station Data April 1, 1975 - April 1, 1984

3. Water Quantity Surveys Detailed Gauging Station Data April 1, 1984

4. Water Quantity Surveys Total Program Costs and Shareable Costs for 1984/85

5. Water Quantity Surveys Summary of Schedules D/F 1984/85

6. Water Quality Surveys Comparison - Scheduled and Actual Costs for 1984/85

Province/Territory: Ontario

Important Note: All Tables include data for the Northwest Ontario Network operated by Manitoba District

TABLE 1
WATER QUANTITY SURVEYS
GAUGING STATION DATA FOR 1984/85

No. of Stations			Changes during 1984/85		Stn. Designation April 1, 1984			
April 1 83	April 1 84	Change	Added	Discontinued	Fed.	F P	Prov.	Contrib.
513	550	≠37	9	30	* 221(18)	* 38(0)	* 190(1)	101(0)

* Bracket Sediment Stations

TABLE 2
WATER QUANTITY SURVEYS
COMPARATIVE GAUGING STATION DATA April 1/75 April/84

Federal Stations			F P Stations			Provincial Stations			Total Stations		
Apr 1 75	Apr 1 84	Chge	Apr 1 75	Apr 1 84	Chge	Apr 1 75	Apr 1 84	Chge	Apr 1 75	Apr 1 84	Chge
202	221	≠19	57	38	-19	155	190	≠35	414	449	≠35

TABLE 3
WATER QUANTITY SURVEYS
DETAILED GAUGING STATION DATA April 1/84

F-1	F-2	F-3	F-4	Total F	FP-1	FP-2	FP-3	Total F P	P-1	P-2	Total P	Contributed	Total-All
117(18)	1	91	12	221(18)	38	0	0	38	190(1)	0	190(1)	101	550(19)

Bracket Sediment Stations in all catagories

TABLE 4
WATER QUANTITY SURVEYS
TOTAL PROGRAM COSTS & SHAREABLE COSTS FOR 1984/85
(× $1000)

Total Program Costs					Shareable Costs						
P/Yrs	Sal.	Oper.	Cap.	Total	P/Yrs	Sal.	Oper.	Const.	Total	F Share	P Share
51.1	1506.5	671.2	378.8	2556.5	31.1	917.1	645.9	205.0	1,768.0	995.2	772.8

TABLE 5
WATER QUANTITY SURVEYS
SUMMARY OF SCHEDULES D/F- 1984/85

Streamflow & Water Level		Sediment		Total
Operation	Construction	Operation	Construction	
$744,720	$129,000	1,500	0	$875,220

TABLE 6
WATER QUANTITY SURVEYS
COMPARISON - SCHEDULED & ACTUAL COSTS FOR 1984/85
(Dollars)

Salary & Operations		Construction		Total			Annual Payment Received	Received Minus Actual
Sch. D/F	Actual Cost	Sch. D/F	Actual Cost	Sch. D/F	Actual Cost	Difference		
$746,220	$697,631	$129,000	$75,157	$875,220	$772,788	$102,432	810,945(1)	≠38,157

(1) includes $6,280 which WRB paid to Ontario Hydro for operation of 6 stations

ONT-7 (1984-85)

AUTHOR

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TITLE CANADA-ONTARIO COST-SHARING AGREEMENT FOR WATER QUANTITY SURVEYS "Annual Report"

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