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SULFUR YIELDS OF QUEBEC RIVERS

Mary E. Thompson

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## **Executive Summary**

This report presents added evidence that the primary source of sulphate to surface waters of remote areas of Quebec is the deposition by atmospheric transport.

Résumé à l'intention de la Direction

Ce rapport présente d'autres données établissant que la plupart du sulfate présent dans les eaux de surface des régions éloignées du Québec est principalement le résultat du transport atmosphérique.

## **ABSTRACT**

The long term average sulfur-yields of rivers in southern Quebec have been calculated using mean sulfate concentrations times runoff for gauged rivers. The areal distribution of sulfur-yields agrees well with the known pattern of atmospheric wet deposition. In heavily populated areas, however, especially in the St. Lawrence Lowlands, there is considerably more sulfur than can be attributed to wet deposition.

## Résumé

On a calculé la valeur moyenne à long terme de l'apport en soufre dans le sud du Québec, à partir du produit de la concentration moyenne de sulfate dans l'eau et dans le ruissellement pour certains cours d'eau. La distribution surfacique de l'apport en soufre concorde bien avec la répartition connue des précipitations humides. Toutefois, dans les régions très peuplées et particulièrement dans les terres basses du Saint-Laurent, la quantité de soufre est de beaucoup supérieure à celle attribuable uniquement aux précipitations humides.

## INTRODUCTION

In order to calculate the sulfur-yield of rivers, chemical data must be available and discharge data are useful, although in some cases runoff can be estimated, using data for nearby rivers. During 1980/81, the chemical data base of the Province of Quebec was incorporated into NAQUADAT (Canada's National Water Quality Data Storage System). The base includes data on lakes and rivers from 1968 to 1979. NAQUADAT and the Provincial data base use different systems for identifying stations. NAQUADAT has chemical data under NAQUADAT Station codes, but discharge data, in publications of the Province of Quebec, are identified by Provincial codes.

A systematic approach was used to match the two data sets. For each station, the data are listed in the same format: first the station name and NAQUADAT station code, then its latitude and longitude, then the period of chemical record, the mean sulfate concentration ( $\bar{X}$ ), standard deviation ( $s$ ), and number of samples ( $n$ ). Then the name of the gauging station, its Quebec station code and the drainage area above the gauge, the latitude and longitude, and the period of record are shown. The last line shows the mean discharge in metres cubed per second (cms), the runoff ( $R$ ) calculated from the discharge and the drainage area:

$$R = (m^3 s^{-1})(s \text{ yr}^{-1}) / (\text{drainage area in } m^2) = m \text{ yr}^{-1}$$

Finally, the sulfur yield is calculated as

$$(\bar{x}_{SO_4})(R)/3 = S \text{ in g m}^{-2} \text{ yr}^{-1}$$

The number of samples available per river to calculate the mean sulfate concentrations ranges from 5 to more than 400. Mostly larger data sets were used, and, in some cases, efforts were made to match the discharge data to the period of record of the chemical data. Generally this made little difference, except in the cases of rivers sampled only in the early 1970s, when both sulfate concentrations and discharges were higher than later in the 1970s.

For rivers near the ocean whose  $Cl^-$ ,  $Na^+$  and  $Mg^{++}$  concentrations indicated that they received significant amounts of seasalt, the sulfate data were corrected for seasalt, using  $Cl^-$ , and assuming the same ratio of sulfate to  $Cl^-$  as in normal open seawater. Specifically, in weight units:

$$\text{Excess } SO_4^{--} = \text{Total } SO_4^{--} - 0.14(Cl^-)$$

Some of the results were plotted on maps by Provincial Regions. The detailed data sheets are in Appendix A.

Figure 1 shows the system used by the Province of Quebec to subdivide southern Quebec into hydrographic regions. Regions 1 and 2 lie along the southern and northern extent of the Gaspé Peninsula, respectively. Region 3 lies south of the St. Lawrence River in southernmost Quebec. Region 4 includes watersheds of rivers draining into the Ottawa River from the north. Region 5 includes rivers draining the north shore of the St. Lawrence River, as far east as, but not including, the Saguenay. Region 6 comprises the watershed of the Saguenay including rivers draining into Lac Saint Jean. Region 7 comprises the rivers draining the north shore of the St. Lawrence River from just east of the Saguenay to Labrador.

## RESULTS

### Regions 1 and 2

Figure 2 shows some of the calculated S, or excess S, yields along the Gaspé Peninsula. At the eastern end of the peninsula the yields generally range from 1 to  $1.8 \text{ g m}^{-2} \text{ yr}^{-1}$ , a notable exception being the York River, apparently affected by smelting activities at Murdochville. To the west, however, in the eastern Quebec lowlands, the S yields are much higher, ranging up to  $4 \text{ g S m}^{-2} \text{ yr}^{-1}$ . Although this is a region of very high atmospheric deposition (Barrie and Sirois, 1982), there is likely also a significant terrestrial and/or municipal-industrial-effluent source as well.

Region 3

Rivers in this region (Figure 3) lie mainly in the St. Lawrence Lowlands and they too exhibit very high S yields.

Region 4

For rivers draining the north shore of the Ottawa River (Figure 4) an interesting phenomenon begins to appear. That is, rivers with smaller watersheds exhibit higher S yields than larger rivers. Much of the watersheds of the larger rivers lie far to the north, out of the area of high atmospheric deposition, while much of the watersheds of the smaller rivers lie to the south. (For information on the areal distribution of atmospheric deposition, see Barrie and Sirois, 1982). The high S yield of the Kinojevis River, no doubt reflects smelting activities at Rouyn-Noranda.

Region 5

The same areal pattern seen in Region 4 is seen in Region 5 (Figure 5). The larger rivers generally show smaller S yields than the smaller ones. There is also a tendency towards smaller S yields to the east.

Region 6

S yields of rivers entering Lac Saint Jean are less than  $1 \text{ g m}^{-2} \text{ yr}^{-1}$  and are only a little higher in the area of the Kenogami Reservoir and for the Sainte Margarite River (Figure 6). The slightly higher yield of the Sainte Margarite River on the north bank of the Saguenay compared to the Petite Saguenay on the south bank may reflect differences in atmospheric deposition due to prevailing winds and topography.

Region 7

There is a sparsity of data for many of the rivers in Region 7 (Figure 7), but the excess S yields are generally low, well under  $1 \text{ g m}^{-2} \text{ yr}^{-1}$ . A S yield of  $0.6 \text{ g m}^{-2} \text{ yr}^{-1}$  is equivalent to  $18.8 \text{ m mol SO}_4^{2-} \text{ m}^{-2} \text{ yr}^{-1}$  and agrees well with the wet deposition maps of Barrie and Sirois (1982) in which the  $20 \text{ m mol m}^{-2} \text{ yr}^{-1}$  contour generally crosses this area. In this relatively remote region, the S yielded by the rivers is mainly due to atmospheric wet deposition. Terrestrial sources and dry deposition are unimportant.

**SUMMARY AND CONCLUSIONS**

Calculations, admittedly crude, of the S yield of rivers in southern Quebec have produced results that are generally in accord

with the known pattern of atmospheric wet deposition. Only in the Saint Lawrence Valley and in the western extension of the low table-lands of eastern Quebec are the river yields of S much higher than can be explained as due to atmospheric wet deposition. This area is well populated, however, and there are probably significant sources of S from municipal/industrial effluents, as well as likely terrestrial sources, and dry deposition.

These results show that, except in populated lowland areas, the principal sources of S to Quebec rivers is via atmospheric deposition, and that over the long term there is little retention of S within the watersheds.

**ACKNOWLEDGEMENTS**

I thank H. St. Martin of the Ministère de l'environnement  
for permission to use the Quebec Provincial Data Base for this  
exercise.

REFERENCES

Barrie, L.A. and A. Sirois, 1982. An analysis and assessment of precipitation chemistry measurements made by CANSAP (the Canadian Network for Sampling Precipitation): 1977-1980. Environment Canada, Atmospheric Environment Service Report AQRB-82-003-T.

Quebec, Ministere des Richesses naturelles Annuaire hydrologique - various years.

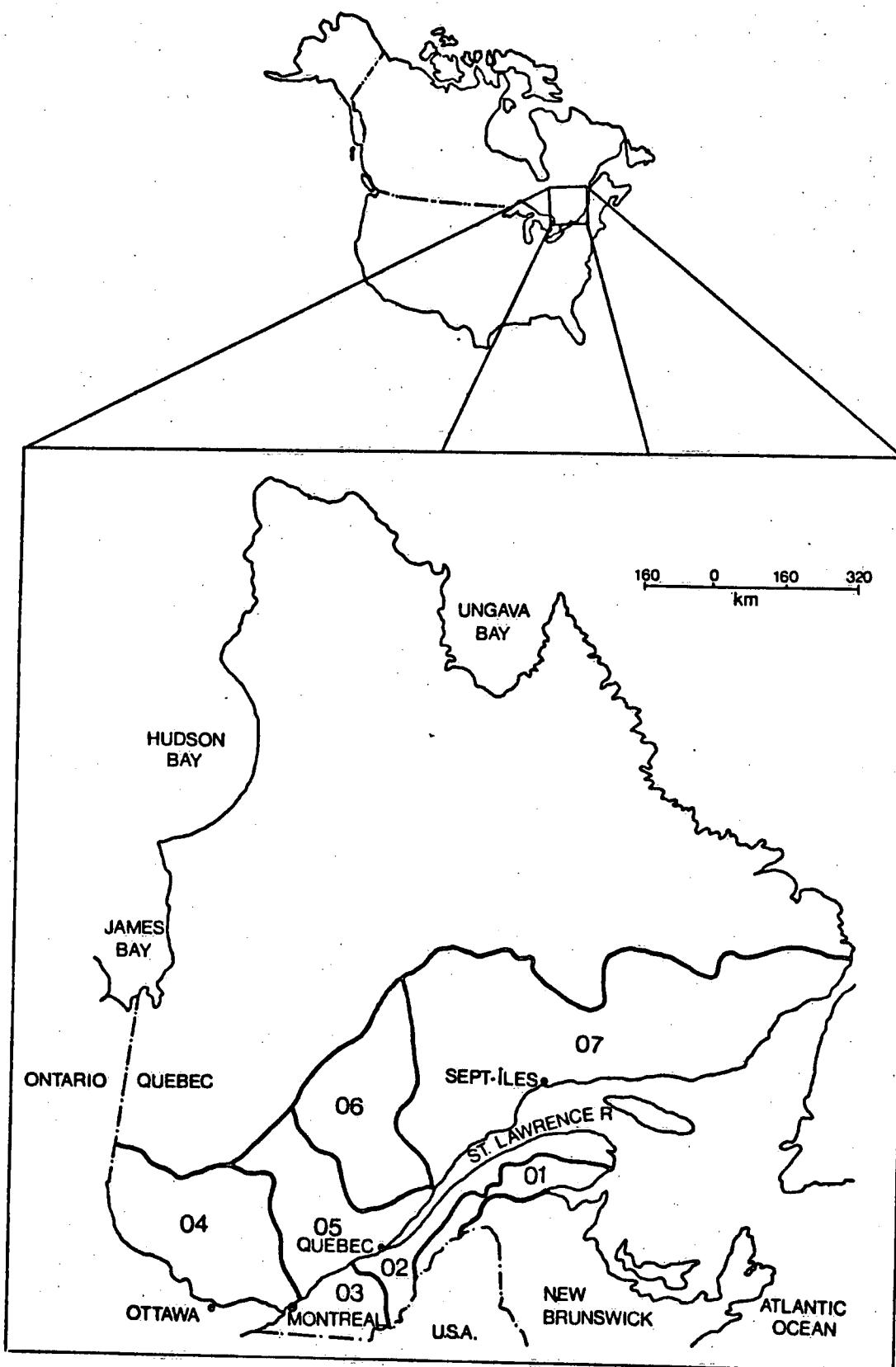


Figure 1 The first seven hydrographic regions of Quebec.

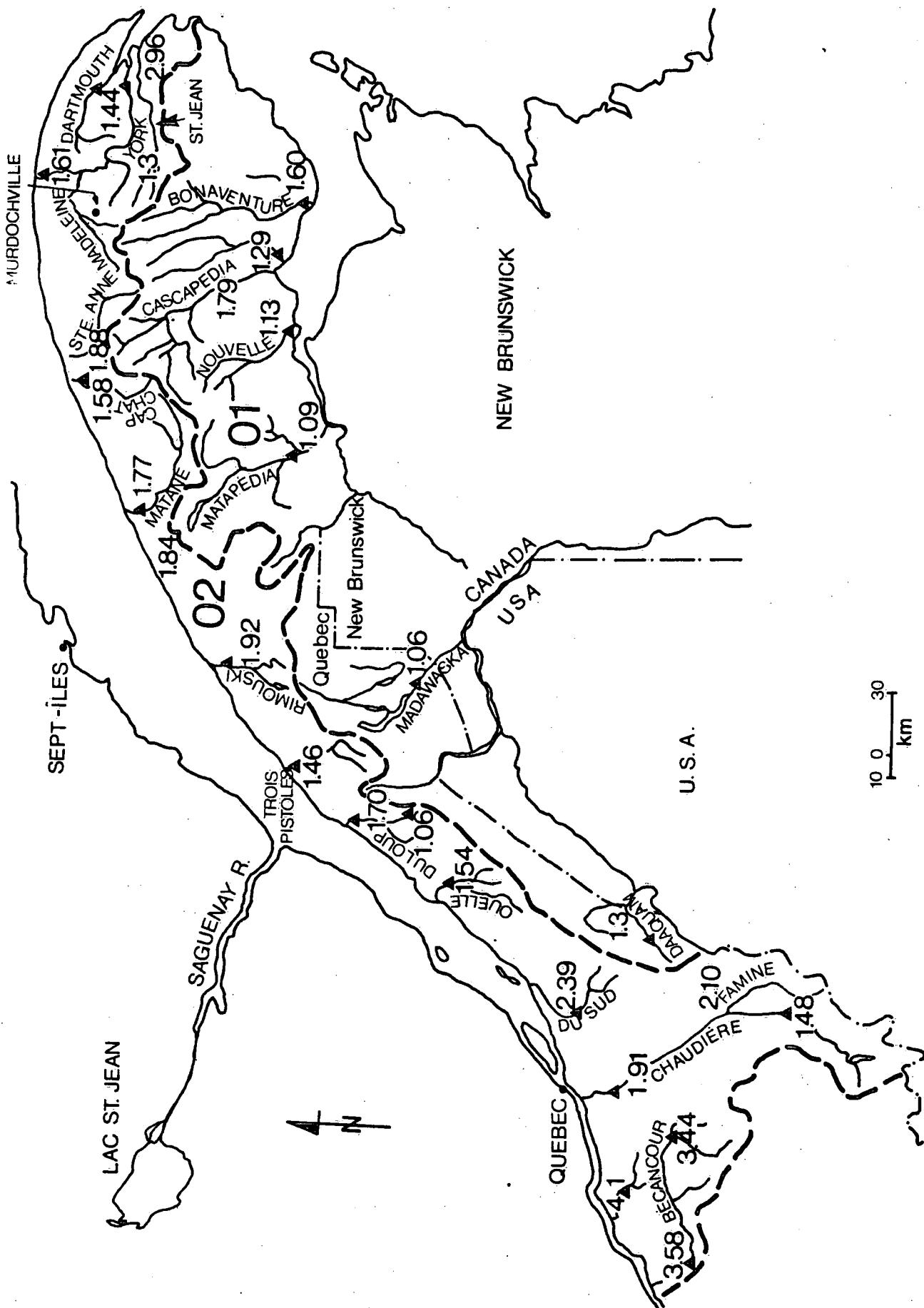


Figure 2 Excess S-yields of rivers in Regions 1 and 2.

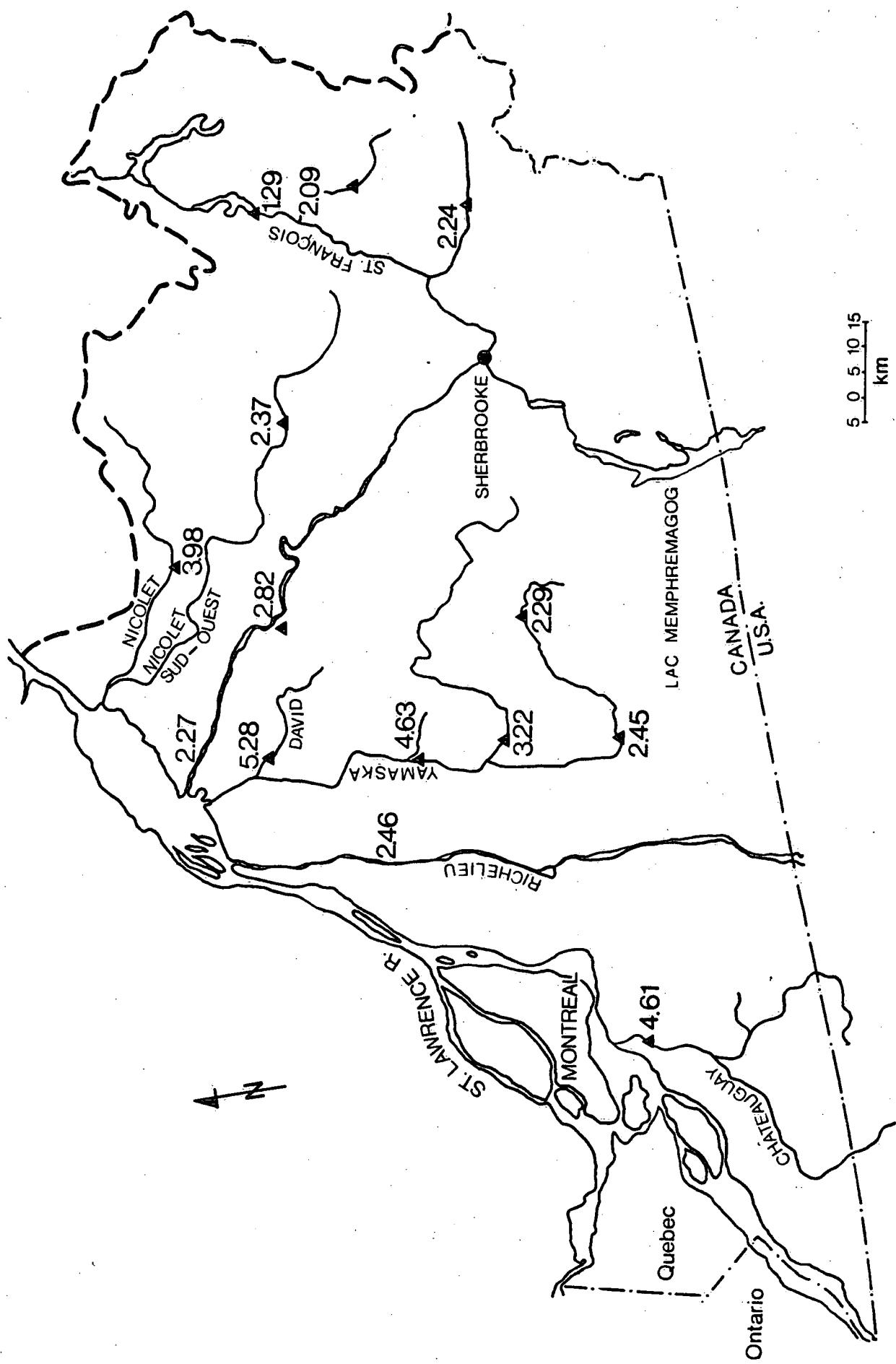


Figure 3 Excess S-yields of rivers in Region 3.

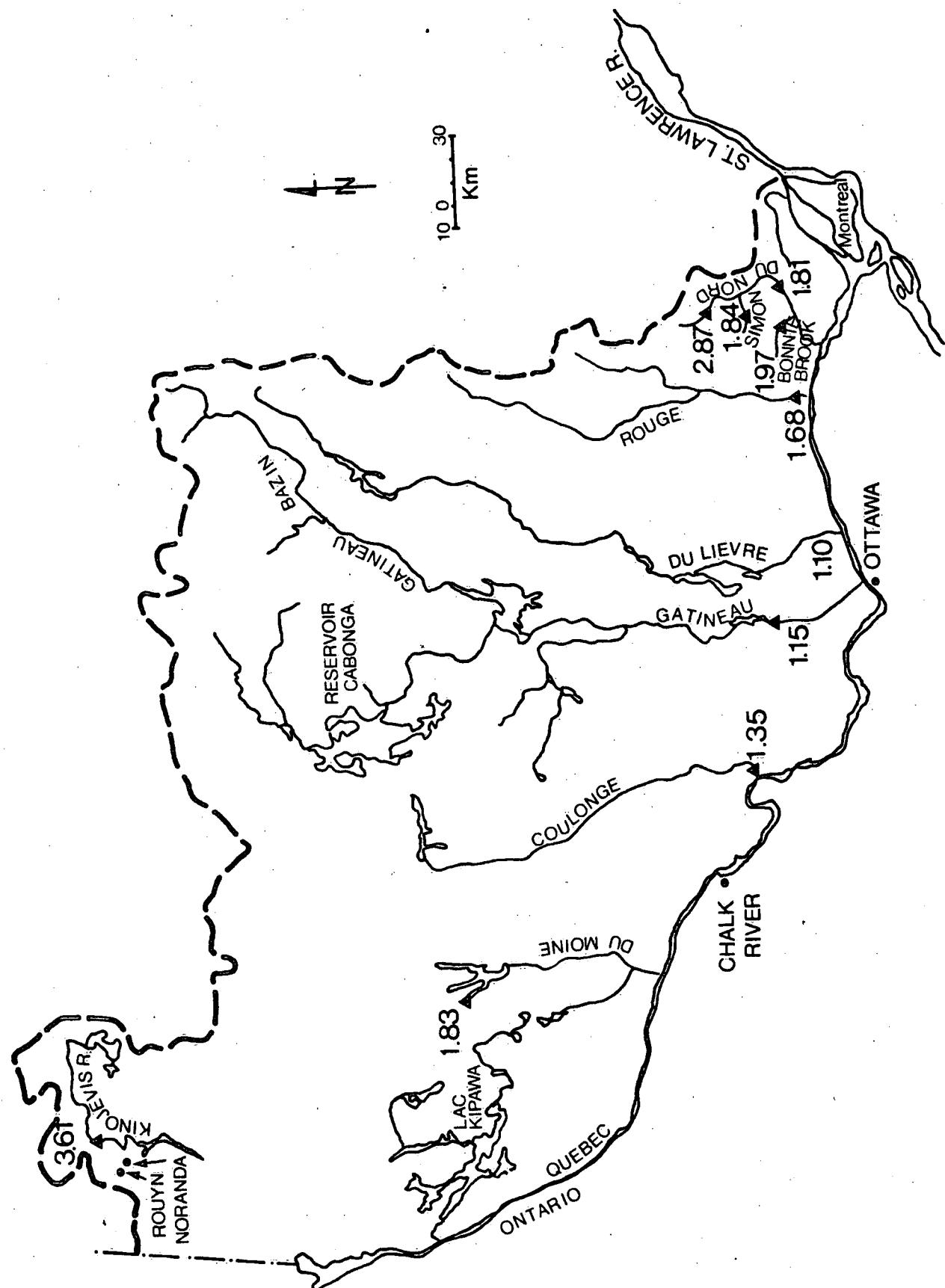


Figure 4 Excess S-yields of rivers in Region 4.

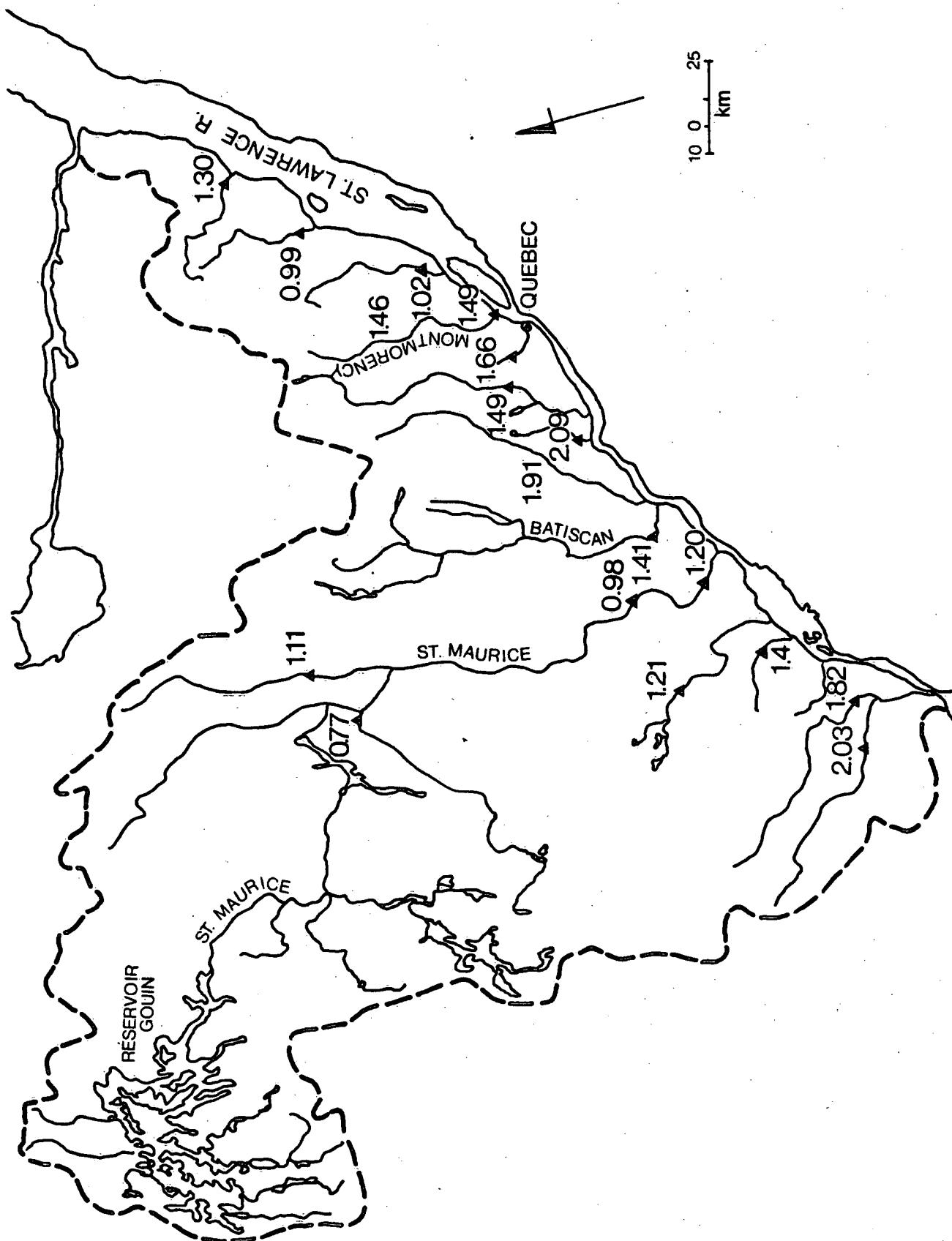


Figure 5 Excess S-yields of rivers in Region 5.

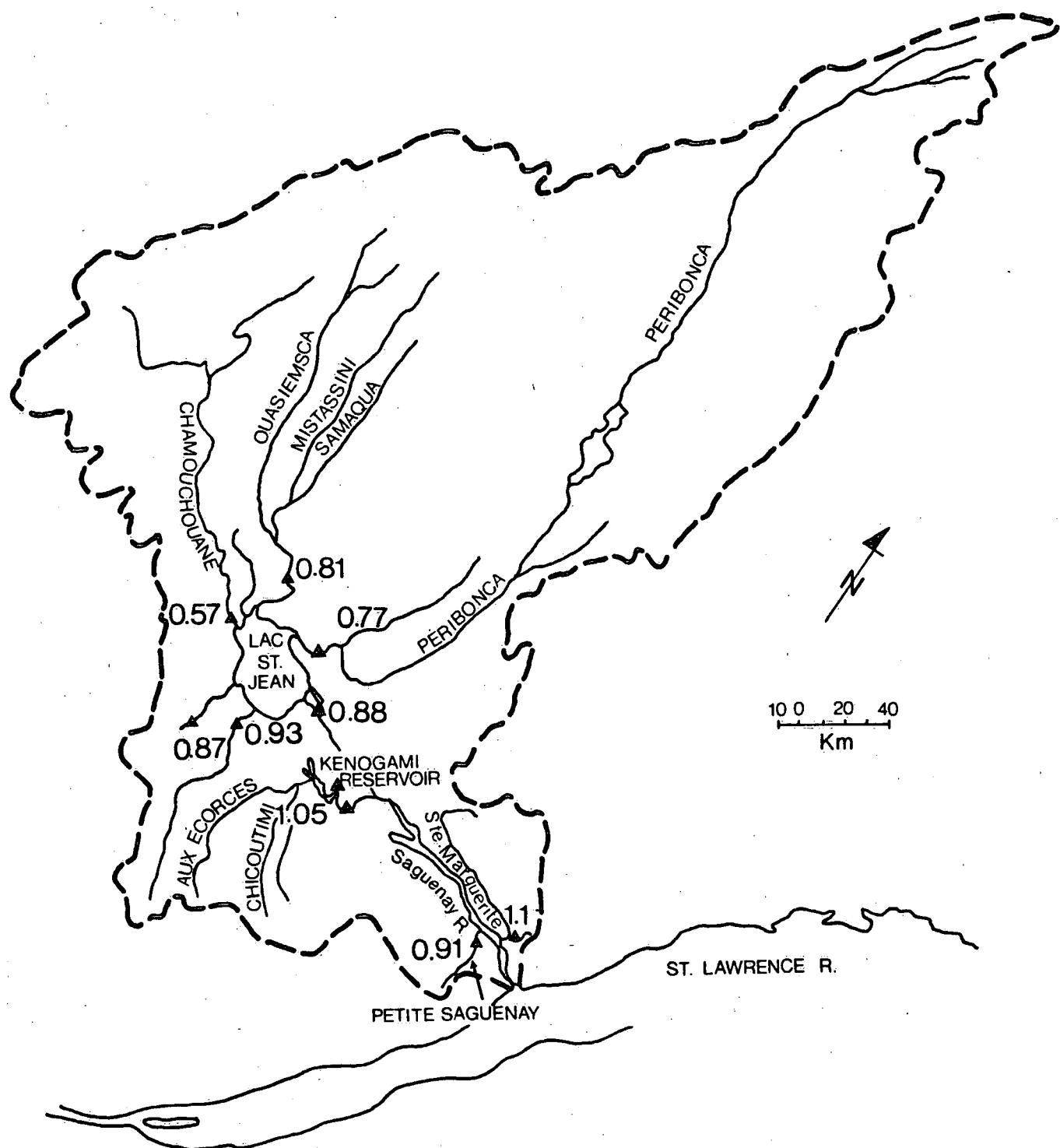


Figure 6 Excess S-yields of rivers in Region 6.

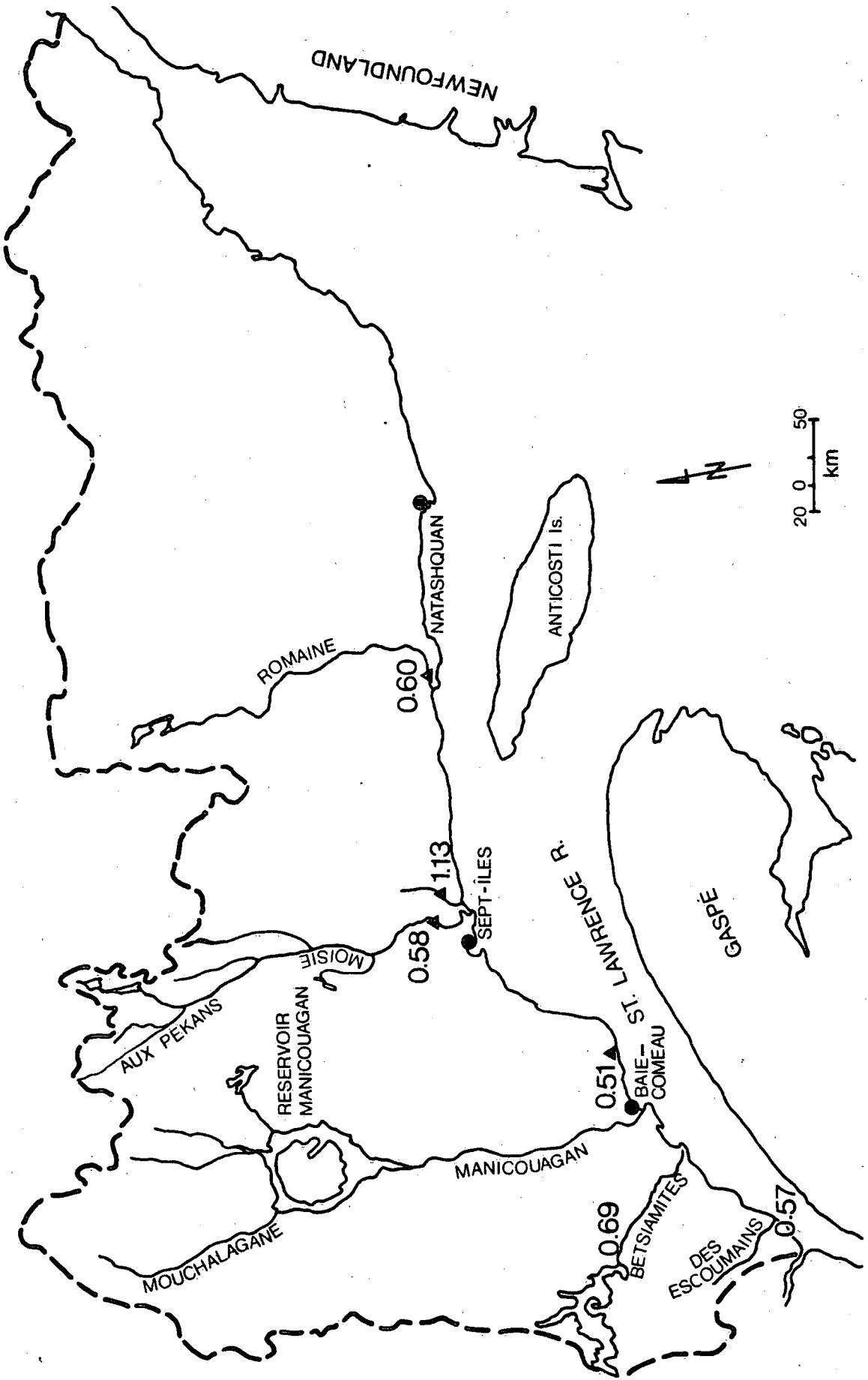


Figure 7 Excess S-yields of rivers in Region 7.

**APPENDIX**

## Data for Rivers in Quebec: Region 1

Name DAAQUAM AU PONT-ROUTE DE SAINTE-JUSTE-DE-BRETELIERES  
 NAQUADAT Code 00PQ01AA0001000  
 Lat Long 46-33-27N 70-04-49W  
 Period 71-10-06 to 74-07-24  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 5.2 \quad s = 2.1 \quad n = 96$   
 Gauge no gauge  
 Lat Long  
 Period  
 Data  $R \sim 0.75 \text{ m yr}^{-1} \quad S \sim 1.30 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MADAWASKA AU PONT-ROUTE A DEGELIS  
 NAQUADAT Code 00PQ01AD0001000  
 Lat Long 47-33-02N 68-38-13W  
 Period 71-07-13 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 5.7 \quad s = 1.3 \quad n = 212$   
 Gauge MADAWASKA A 3.1 KM EN AVAL DU BARRAGE DU LAC  
 TEMISCOUATA 011702 2720  $\text{km}^2$   
 Lat Long 47-32-54N 68-38-11W  
 Period 61 years  
 Data 48.2 cms  $R = 0.558 \quad S = 1.06 \text{ g m}^{-2} \text{ yr}^{-1}$

Name                    MATAPELIA AU PONT-ROUTE A SAINT-ALEXIS  
 NAQUADAT Code        00PQ01BD0001000  
 Lat Long              48-01-05N 67-01-40W  
 Period                70-02-15 to 77-07-03  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 5.4 \quad s = 2.3 \quad n = 230$   
 Gauge                 MATAPELIA A 1.0 KM EN AMONT DE L'ASSEMETOUGAN  
                          011507 2770  $\text{km}^2$   
 Lat Long              48-05-12 N 67-06-02W  
 Period                1968-1979  
 Data                 56.7 cms   R = 0.645 m  $\text{yr}^{-1}$    S = 1.09 g  $\text{m}^{-2} \text{ yr}^{-1}$

Name                    MATAPELIA AU PONT-ROUTE A LA SORTIE DULAC  
 NAQUADAT Code        00PQ01BD0002000  
 Lat Long              48-29-30N 67-26-53W  
 Period                71-08-31 to 74-06-17  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 6.45 \quad s = 2.3 \quad n = 96$   
 Gauge                 MATAPELIA A 0.6 MI EN AMONT DE L'ASSEMETOUGAN  
                          011507 2770  $\text{km}^2$   
 Lat Long              48-29-30N 67-26-53W  
 Period                1971-01 to 1974-09  
 Data                 61.5 cms   R = 0.700 m  $\text{yr}^{-1}$    S = 1.50 g  $\text{m}^{-2} \text{ yr}^{-1}$

Name NOUVELLE AU PONT-ROUTE 132 A NOUVELLE  
 NAQÜADAT Code 00PQ01BF0001000  
 Lat Long 48-09-29N 66-20-57W  
 Period 70-05-28 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 4.53 \quad s = 1.5 \quad n = 320$   
 Gauge NOUVELLE AU PONT-ROUTE 132 A NOUVELLE 011201 1140  $\text{km}^2$   
 Lat Long 48-09-26N 66-20-58W  
 Period 1964-1979  
 Data  $27.2 \text{ cms} \quad R = 0.752 \text{ m yr}^{-1} \quad S = 1.13 \text{ g m}^{-2} \text{ yr}^{-1}$

Name BONAVVENTURE A 6.9 KM EN AMONT DU PONT-ROUTE 132  
 NAQÜADAT Code 00PQ01BG0001000  
 Lat Long 48-05-12N 65-26-53W  
 Period 77-01-16 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$  ssc  $\bar{x} 5.4 \quad s = 1.5 \quad n = 87$   
 Gauge BONAVVENTURE A 9.7 KM EN AMONT DU PONT-ROUTE 132  
           010801 2150  $\text{km}^2$   
 Lat Long 48-06-00N 64-27-42W  
 Period 1978-10 to 1979-09  
 Data  $60.5 \text{ cms} \quad R = 0.886 \text{ m yr}^{-1} \quad S = 1.60 \text{ g m}^{-2} \text{ yr}^{-1}$

Name PETITE RIVIERE CASCAPEDIA AU PONT-ROUTE A NEW RICHMOND  
 NAQUADAT Code 00PQ01BG0002000  
 Lat Long 48-10-17N 65-50-43W  
 Period 70-05-28 to 78-09-10  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$  ssc  $\bar{x}$  5.17 s = 3.1 n = 286  
 Gauge PETITE RIVIERE CASCAPEDIA A 3.9 KM EN AMONT DU PONT DU  
 C.N. 010901 1390  $\text{km}^2$   
 Lat Long 48-11-21N 65-48-43W  
 Period 1961-1979  
 Data 33.1 cms R = 0.750 m  $\text{yr}^{-1}$  S = 1.29 g  $\text{m}^{-2} \text{ yr}^{-1}$

Name CASCAPEDIA AU PONT-ROUTE DE SAINT JULES DE CASCAPEDIA  
 NAQUADAT Code 00PQ01BG0004000  
 Lat Long 48-15-06N 65-53-43W  
 Period 70-05-28 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$  ssc  $\bar{x}$  6.92 s = 2.4 n = 319  
 Gauge CASCAPEDIA A 1.4 KM EN AVAL DE LA BRANCHE DU LAC 011001  
 $1470 \text{ km}^2$   
 Lat Long 48-39-59N 66-11-22W  
 Period 1966-1978  
 Data 36.3 cms R = 0.778 m  $\text{yr}^{-1}$  S = 1.79 g  $\text{m}^{-2} \text{ yr}^{-1}$

Name RUISSSEAU BASTIEN A 0.5 KM EN AMONT DU PONT-ROUTE 132  
 A CARLETON  
 NAQUADAT Code 00PQ01BG0006000  
 Lat Long 48-06-33N 66-07-36W  
 Period 70-01-10 to 71-12-03  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$  ssc  $\bar{x}$  9.28 s = 1.4 n = 50  
 Gauge NO GAUGE  
 Lat Long  
 Period  
 Data  $R \sim 0.750 \text{ m yr}^{-1}$   $S = 2.3 \text{ g m}^{-2} \text{ yr}^{-1}$

Name SAINT-JEAN AU PONT-ROUTE 132 DE DOUGLASTOWN  
 NAOUADAT Code 00PQ01BH0003000  
 Lat Long 48-46-18N 64-28-27W  
 Period 74-06-16 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$  ssc  $\bar{x}$  4.83 s = 1.6 n = 203  
 Gauge NO GAUGE  
 Lat Long  
 Period  
 Data  $R = \sim 0.8 \text{ m yr}^{-1}$   $S = \sim 1.3 \text{ g m}^{-2} \text{ yr}^{-1}$

## Data for Rivers in Quebec: Region 2

Name            YORK A 4.3 KM EN AMONT DU PONT-ROUTE 132 A SUNNY BANK

NAQUADAT Code    00PQ01BH0004000

Lat Long        48-50-07N 64-35-26W

Period           70-01-05 to 79-12-16

$\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 13.2 \quad s = 8.9 \quad n = 363$

Gauge            YORK A 4.3 KM EN AMONT DU PONT-ROUTE 132 A SUNNY BANK  
020401 1010 km<sup>2</sup>

Lat Long        48-50-03N 64-37-30W

Period           1945-1979

Data              $21.6 \text{ cms} \quad R = 0.674 \text{ m yr}^{-1} \quad S = 2.96 \text{ g m}^{-2} \text{ yr}^{-1}$

Name            DARTMOUTH AU PONT-ROUTE A SAINT-MAJORIQUE

NAQUADAT Code    00PQ01BH0006000

Lat Long        48-54-24N 64-35-57W

Period           71-08-28 to 78-09-10

$\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 5.73 \quad s = 2.8 \quad n = 278$

Gauge            DARTMOUTH A 1.6 KM EN AMONT DU RUISSEAU DU PAS DE DAME  
020602 642 km<sup>2</sup>

Lat Long        48-58-47N 64-41-55W

Period           1979-1979

Data              $15.4 \text{ cms} \quad R = 0.756 \text{ m yr}^{-1} \quad S = 1.44 \text{ g m}^{-2} \text{ yr}^{-1}$

Name                   MADELEINE A 5.1 KM EN AMONT DUPONT-ROUTE 132 A  
 RIVIERE-LA-MADELEINE

NAQUADAT Code       00PQ02QC0002000

Lat Long              49-12-10N 65-17-44W

Period                74-11-24 to 79-12-16

$\text{SO}_4^{--}$  mg L<sup>-1</sup>     $\bar{x} = 6.29$    s = 1.5   n = 16

Gauge                 MADELEINE A 5.1 KM EN AMONT DUPONT-ROUTE 132 A  
 RIVIERE-LA-MADELEINE 020802 1220 km<sup>2</sup>

Lat Long              49-12-10N 65-17-44W

Period                1953-1979

Data                  29.7 cms R = 0.767 m yr<sup>-1</sup> S = 1.61 g m<sup>-2</sup> yr<sup>-1</sup>

Name                   MADELEINE AU PONT-ROUTE 132 A RIVIERE-LA-MADELEINE

NAQUADAT Code       00PQ02QC0003000

Lat Long              49-14-04N 64-18-51W

Period                70-05-26 to 74-11-17

$\text{SO}_4^{--}$  mg L<sup>-1</sup>     $\bar{x} 6.42$  (ssc)   s = 2.6   n = 129

Gauge                 MADELEINE A 5.1 KM EN AMONT DU PONT-ROUTE 132 A  
 RIVIERE-LA-MADELEINE 020802 1220 km<sup>2</sup>

Lat Long              49-12-10N 64-17-44W

Period                22 years

Data                  29.6 cms R = 0.764 m yr<sup>-1</sup> S = 1.64 g m<sup>-2</sup> yr<sup>-1</sup>

Name                    SAINTE-ANNE A LA FOSSE PELLETIER  
 NAQUADAT Code        00PQ02QC0005000  
 Lat Long              49-05-60N 66-30-43W  
 Period                70-01-01 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$  Ex  $\text{SO}_4 \bar{x} 6.11$  s = 4.7 n = 405  
 Gauge                 SAINTE-ANNE A 9.7 KM EN AMONT DU PONT-ROUTE 132  
 $021407 785 \text{ km}^2$   
 Lat Long              49-03-32N 66-29-12W  
 Period                10 years  
 Data                 23.0 cms R = 0.923 m yr $^{-1}$  S = 1.88 g m $^{-2}$  yr $^{-1}$

Name                 CAP-CHAT A 5.3 KM EN AMONT DU PONT-ROUTE 132 A CAP CHAT  
 NAQUADAT Code       00PQ02QB0001000  
 Lat Long             49-03-23N 66-40-18W  
 Period               71-07-13 to 78-09-12  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$  Ex  $\text{SO}_4 \bar{x} 5.49$  s = 1.7 n = 200  
 Gauge                DU CAP CHAT A 5.3 KM EN AMONT DU PONT-ROUTE 132 A CAP CHAT  
 $021502 752 \text{ km}^2$   
 Lat Long             49-03-23N 66-40-20W  
 Period               11 years  
 Data                1.99 cms R = 0.865 m yr $^{-1}$  S = 1.58 g m $^{-2}$  yr $^{-1}$

Name MATANE A 8.5 KM EN AMONT DU PONT-ROUTE 132 A MATANE  
 NAQUADAT Code 00PQ02QB0002000  
 Lat Long 48-46-27N 67-32-30W  
 Period 70-01-07 to 74-06-14  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 6.99 \quad s = 2.9 \quad n = 193$   
 Gauge MATANE A 8.5 KM EN AMONT DU PONT-ROUTE 132 A MATANE  
       021601 1650 km<sup>2</sup>  
 Lat Long 48-46-29N 67-32-31W  
 Period 1926-1979  
 Data  $39.8 \text{ cms} \quad R = 0.760 \text{ m yr}^{-1} \quad S = 1.77 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MATANE AU PONT-ROUTE A 4.8 KM EN AMONT DE MATANE  
 NAQUADAT Code 00PQ02QB0003000  
 Lat Long 48-47-38N 67-32-17W  
 Period 74-06-16 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 6.1 \quad s = 2.2 \quad n = 198$   
 Gauge MATANE A 8.5 KM EN AMONT DUPONT-ROUTE 132 A MATANE  
       021601 1650 km<sup>2</sup>  
 Lat Long 48-46-29N 67-32-31W  
 Period 54 years  
 Data  $39.7 \text{ cms} \quad R = 0.758 \text{ m yr}^{-1} \quad S = 1.54 \text{ g m}^{-2} \text{ yr}^{-1}$   
       (ssc  $S = 1.40 \text{ g m}^{-2} \text{ yr}^{-1}$ )

Name                    BLANCHE AU PONT-ROUTE 132 A SAINT-ULRIC  
 NAQUADAT Code        00PQ02QB0004000  
 Lat Long              48-47-08N 67-41-40W  
 Period                71-08-27 to 78-09-10  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 7.5 \quad s = 2.6 \quad n = 272$   
 Gauge                 BLANCHE A 3.5 KM EN AMONT DU PONT-ROUTE 132  
 $021702 \quad 208 \text{ km}^2$   
 Lat Long              48-46-00N 67-39-58W  
 Period                43 years  
 Data                  $4.85 \text{ cms} \quad R = 0.734 \text{ m yr}^{-1} \quad S = 1.84 \text{ g m}^{-2} \text{ yr}^{-1}$

Name                    METIS AU BARRAGE METIS DEUX A GRAND-METIS  
 NAQUADAT Code        00PQ02QA0001000  
 Lat Long              48-37-09N 68-08-25W  
 Period                70-01-22 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 6.2 \quad s = 2.1 \quad n = 317$   
 Gauge  
 Lat Long  
 Period  
 Data                  $R = \sim 0.63 \text{ m yr}^{-1} \quad S = \sim 1.3 \text{ g m}^{-2} \text{ yr}^{-1}$

**Name** RIMOUSKI A 5.3 KM EN AMONT DU PONT-ROUTE 132 A RIMOUSKI  
**NAQUADAT Code** 00PQ02QA0002000  
**Lat Long** 48-22-58N 68-30-33W  
**Period** 70-01-01 to 79-12-16  
 **$\text{SO}_4^{--}$  mg L<sup>-1</sup>** Ex  $\bar{x}$  9.18 s = 2.8 n = 323  
**Gauge** RIMOUSKI A 3.7 KM EN AMONT DU PONT-ROUTE 132  
 022003 1590 km<sup>2</sup>  
**Lat Long** 48-24-48N 68-33-22W  
**Period** 55 years  
**Data** 31.6 cms R = 0.626 m yr<sup>-1</sup> s = 1.92 g m<sup>-2</sup> yr<sup>-1</sup>

**Name** DU BIC AU PONT ROUTE DE CHEMIN DU GOLF  
**NAQUADAT Code** 00PQ02QA0003000  
**Lat Long** 48-29-57N 68-33-51W  
**Period** 70-03-16 to 72-06-02  
 **$\text{SO}_4^{--}$  mg L<sup>-1</sup>**  $\bar{x}$  = 14.4 s = 5.6 n = 110  
**Gauge**  
**Lat Long**  
**Period**  
**Data** R = ~ 0.63 m yr<sup>-1</sup> S = ~ 3.02 g m<sup>-2</sup> yr<sup>-1</sup>

Name DES TROIS PISTOLES A 0.6 KM EN AMONT DUPONT-ROUTE 132 A  
 TROIS PISTOLES

NAQUADAT Code 00PQ02QA0011000

Lat Long 48-05-26N 69-12-33W

Period 71-08-26 to 79-12-17

$\text{SO}_4^{--}$  mg L<sup>-1</sup> Ex  $\bar{x}$  7.47 s = 2.9 n = 304

Gauge DES TROIS PISTOLES A 2.1 KM EN AMONT DU PONT-ROUTE 132  
 022301 958 km<sup>2</sup>

Lat Long 48-05-21N 69-11-47W

Period 55 years

Data 17.8 cms R = 0.585 m yr<sup>-1</sup> Ex S = 1.46 g m<sup>-2</sup> yr<sup>-1</sup>

Name FOURCHUE A 0.2 KM EN AVAL DU BARRAGE MORIN

NAQUADAT Code 00PQ02PG0003000 02250C

Lat Long 47-39-02N 69-30-46W

Period 71-08-15 to 72-03-13

$\text{SO}_4^{--}$  mg L<sup>-1</sup>  $\bar{x}$  = 5.5 s = 1.8 n = 6

Gauge FOURCHUE A 0.2 KM EN AVAL DU BARRAGE MORINE 02250 267 km<sup>2</sup>

Lat Long 47-39-03N 69-30-46W

Period 35 years

Data 48.9 cms R = 0.577 m yr<sup>-1</sup> S = 1.06 g m<sup>-2</sup> yr<sup>-1</sup>

Name DU LOUP AU PONT-ROUTE DU CHEMIN DU LAC  
 NAQUADAT Code 00PQ02PG0001000 02250A  
 Lat Long 47-44-17N 69-30-56W  
 Period 70-01-01 to 74-06-09  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 8.9 \quad s = 2.9 \quad n = 143$   
 Gauge DU LOUP A 0.6 KM EN AMONT DU PONT-ROUTE 232  
           022513 1040  $\text{km}^2$   
 Lat Long 47-49-21N 69-31-14W  
 Period 55 years  
 Data  $18.9 \text{ cms} \quad R = 0.572 \text{ m yr}^{-1} \quad S = 1.70 \text{ g m}^{-2} \text{ yr}^{-1}$

Name DU LOUP AU PONT-ROUTE 185  
 NAQUADAT Code 00PQ02PG0004000  
 Lat Long 47-48-38N 69-31-05W  
 Period 74-06-16 to 76-12-05  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 7.7 \quad s = 2.6 \quad n = 85$   
 Gauge DU LOUP AU PONT-ROUTE A SAINT JOSEPH-DE-KAMOURASKA  
           022507 518  $\text{km}^2$   
 Lat Long 47-36-45N 69-38-45W  
 Period 1978-10 to 1979-09  
 Data  $130 \text{ cms} \quad R = 0.791 \text{ m yr}^{-1} \quad S = 2.03 \text{ g m}^{-2} \text{ yr}^{-1}$

Name                    OUELLE AU PONT-ROUTE A 0.8 KM EN AVAL DU PONT-ROUTE 20  
 NAQUADAT Code        00PQ02PG0007000 02270B  
 Lat Long              47-25-59N 69-58-19W  
 Period                70-06-16 to 72-12-17  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 7.7 \quad s = 2.7 \quad n = 208$   
 Gauge                 OUELLE AU PONT-ROUTE A SAINTE-GABRIEL-DE-KAMOURASKA  
                          022703 785  $\text{km}^2$   
 Lat Long              47-21-39N 69-56-40W  
 Period                1970-1978  
 Data                  $15.0 \text{ cms} \quad R = 0.602 \text{ m yr}^{-1} \quad S = 1.54 \text{ g m}^{-2} \text{ yr}^{-1}$

Name                 LINIERE AU PONT-ROUTE A SAINT-COME  
 NAQUADAT Code       00PQ02PJ0004000  
 Lat Long             46-03-33N 70-31-41W  
 Period               70-04-17 to 73-10-30  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 7.2 \quad s = 2.1 \quad n = 106$   
 Gauge                NO GAUGE  
 Lat Long  
 Period  
 Data                 $R = \sim 0.7 \text{ m yr}^{-1} \quad S = \sim 1.7 \text{ g m}^{-2} \text{ yr}^{-1}$

Name DU SUD AU PONT-ROUTE 20 A MONTMAGNY  
 NAQUADAT Code 00PQ02PH0004000 02310D  
 Lat Long 46-58-00N 70-33-47W  
 Period 74-06-16 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 9.2$   $s = 3.3$   $n = 203$   
 Gauge DU SUD A 1.0 KM EN AMONT DU PONT-ROUTE A ARTHURVILLE  
           023106 821  $\text{km}^2$   
 Lat Long 46-49-14N 70-45-25W  
 Period 55 years  
 Data  $20.3 \text{ cms } R = 0.779 \text{ m yr}^{-1} S = 2.39 \text{ g m}^{-2} \text{ yr}^{-1}$

Name DU SUD AU PONT-ROUTE A ARTHURVILLE  
 NAQUADAT Code 00PQ02PH0001000 02310A  
 Lat Long 46-49-35N 70-45-24W  
 Period 70-01-02 to 74-06-09  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 7.3$   $s = 2.1$   $n = 114$   
 Gauge DU SUD A 1.0 KM EN AMONT DU PONT-ROUTE A ARTHURVILLE  
           023106 821  $\text{KM}^2$   
 Lat Long 46-49-14N 70-45-25W  
 Period 55 years  
 Data  $20.3 \text{ cms } R = 0.779 \text{ m yr}^{-1} S = 1.90 \text{ g m}^{-2} \text{ yr}^{-1}$

Name CHAUDIERE AU PONT-ROUTE A SAINT-LAMBERT-DE-LEVIS  
 NAQUADAT Code 00PQ02PJ0001000  
 Lat Long 46-35-12N 71-12-51W  
 Period 70-01-01 to 78-09-10  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 9.2 \quad s = 2.8 \quad n = 329$   
 Gauge CHAUDIERE AU PONT-ROUTE 210 A SAINT-LAMBERT-DE-LEVIS  
           023402 5830  $\text{km}^2$   
 Lat Long 46-35-16N 71-12-59W  
 Period 59 years  
 Data 115 cms  $R = 0.621 \text{ m yr}^{-1}$   $\text{Ex } S = 1.91 \text{ g m}^{-2} \text{ yr}^{-1}$

Name CHAUDIERE AU PONT-ROUTE DE SAINT-SAMUEL  
 NAQUADAT Code 00PQ02PJ0007000  
 Lat Long 45-41-30N 70-47-12W  
 Period 70-06-16 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 7.2 \quad s = 2.1 \quad n = 97$   
 Gauge CHAUDIERE A 0.2 KM EN AVAL DU RUISEAU DROLET  
           023403 1170  $\text{km}^2$   
 Lat Long 45-41-30N 70-47-09W  
 Period 1915-1979  
 Data 22.9 cms  $R = 0.617 \text{ m yr}^{-1}$   $S = 1.48 \text{ g m}^{-2} \text{ yr}^{-1}$

Name FAMINE AU PONT-ROUTE 173 A SAINT-GEORGES-DES-BEAUCE  
 NAQUADAT Code 00PQ02PJ0010000  
 Lat Long 46-07-44N 70-41-17W  
 Period 71-10-06 to 73-10-30  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 8.4 \quad s = 3.2 \quad n = 53$   
 Gauge FAMINE A 6.3 KM EN AMONT DU PONT-ROUTE 173 A SAINT-GEORGES  
       023422 686 km<sup>2</sup>  
 Lat Long 46-09-51N 70-38-23W  
 Period 1964-1978  
 Data  $16.3 \text{ cms} \quad R = 0.478 \text{ m yr}^{-1} \quad S = 2.10 \text{ g m}^{-2} \text{ yr}^{-1}$

Name CHAUDIERE AU PONT-ROUTE A NOTRE-DAME-DES-PINS  
 NAQUADAT Code 00PQ02PJ0005000  
 Lat Long 46-10-55N 70-43-04W  
 Period 70-01-01 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 8.8 \quad s = 2.9 \quad n = 100$   
 Gauge CHAUDIERE A 4.7 KM EN AMONT DU PONT-ROUTE 108 A  
       BÉAUCEVILLE 023426 4090 km<sup>2</sup>  
 Lat Long 46-12-04N 70-44-42W  
 Period 1964-1978  
 Data  $83.9 \text{ cms} \quad R = 0.646 \text{ m yr}^{-1} \quad S = 1.90 \text{ g m}^{-2} \text{ yr}^{-1}$

Name DU CHENE AU PONT-ROUTE 132 A LECLERCVILLE

NAQUADAT Code 00PQ02PK0001000

Lat Long 46-34-22N 71-59-35W

Period 73-12-02 to 79-12-15

$\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 14.8 \quad s = 7.9 \quad n = 239$

Gauge NO GAUGE

Lat Long

Period

Data  $R = \sim 0.82 \text{ m yr}^{-1} \quad S = 4.05 \text{ g m}^{-2} \text{ yr}^{-1}$

Name PETITE DU CHENE AU PONT-ROUTE DE LECLERCVILLE

NAQUADAT Code 00PQ02PK0002000

Lat Long 46-33-24N 72-02-39W

Period 73-12-02 to 78-09-10

$\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 12.6 \quad s = 5.7 \quad n = 223$

Gauge BECANCOUR A 2.1 KM EN AMONT DE LA PALMER

024003 922  $\text{km}^2$

Lat Long 46-18-22N 71-27-05W

Period 1966-1978

Data 24.0 cms  $R = 0.820 \text{ m yr}^{-1} \quad S = 3.44 \text{ g m}^{-2} \text{ yr}^{-1}$

Name BEACANCOUR AU PONT-ROUTE 132 A BEACANCOUR  
 NAQUADAT Code 00PQ02PL0004000  
 Lat Long 46-21-11N 72-26-17W  
 Period 73-12-02 to 79-12-10  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 13.3 \quad s = 5.1 \quad n = 146$   
 Gauge BEACANCOUR AU PONT-ROUTE PRES DE SAINT-SYLVE  
           024007 2340 km<sup>2</sup>  
 Lat Long 46-11-41N 72-17-02W  
 Period 8 years  
 Data 60.0 cms  $R = 0.808 \text{ m yr}^{-1} \quad s = 3.58 \text{ g m}^{-2} \text{ yr}^{-1}$

Name GENTILLY AU PONT-ROUTE 132 A GENTILLY  
 NAQUADAT Code 00PQ02PK0004000  
 Lat Long 46-22-59N 72-20-12W  
 Period 73-13-02 to 79-11-12  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 16.4 \quad s = 30.2 \quad n = 222$   
 Gauge NO GAUGE  
 Lat Long  
 Period  
 Data  $R = \sim 0.8 \quad S \sim 4.4 \text{ g m}^{-2} \text{ yr}^{-1}$

## Data for Rivers in Quebec: Region 3

Name                    NICOLET SUD-OUEST AU PONT-ROUTE A NICOLET FALLS  
 NAQUADAT Code        00PQ020D0002000  
 Lat Long              45-47-30N 71-58-54W  
 Period                71-08-20 to 73-10-31  
 SO<sub>4</sub><sup>--</sup> mg L<sup>-1</sup>     $\bar{x}$  10.3 s = 2.7 n = 52  
 Gauge                 NICOLET SUD-OUEST AU PONT-ROUTE 255 EN AVAL D'ASBESTOS  
                          030101 544 km<sup>2</sup>  
 Lat Long              45-47-30N 71-58-09W  
 Period                49 years  
 Data                 11.9 cms R = 0.689 m yr<sup>-1</sup> S = 2.37 g m<sup>-2</sup> yr<sup>-1</sup>

Name                 NICOLET AU PONT-ROUTE A NICOLET  
 NAQUADAT Code       00PQ020D0005000  
 Lat Long            46-13-31N 72-37-30W  
 Period              73-12-02 to 78-11-05  
 SO<sub>4</sub><sup>--</sup> mg L<sup>-1</sup>     $\bar{x}$  = 16.5 s = 6.1 n = 175  
 Gauge                NICOLET A 5.8 KM EN AVAL DE LA BULSTRODE 030103 1540 km<sup>2</sup>  
 Lat Long            46-03-23N 72-18-23W  
 Period              1966-1978  
 Data                35.4 cms R = 0.724 m yr<sup>-1</sup> S = 3.98 g m<sup>-2</sup> yr<sup>-1</sup>

Name RICHELIEU A L'USINE DE FILTRATION A SOREL

NAQUADAT Code 00PQ020J0008000

Lat Long 46-01-00N 73-07-49W

Period 75-08-22 to 79-12-16

$\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 15.3$   $s = 3.7$   $n = 146$

Gauge

Lat Long

Period

Data  $R = \sim 0.55 \text{ m yr}^{-1}$   $S \sim 2.8 \text{ g m}^{-2} \text{ yr}^{-1}$

Name                    NICOLET AU PONT-ROUTE 20 A SAINT-LEONARD  
 NAQUADAT Code        00PQ020D0001000  
 Lat Long              46-03-29N 72-18-33W  
 Period                70-01-07 to 73-11-14  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 15.0 \quad s = 5.7 \quad n = 75$   
 Gauge                 NICOLET A 5.8 KM EN AVAL DE LA BULSTRODE 030103 1540 km<sup>2</sup>  
 Lat Long              46-03-23N 72-18-23W  
 Period                1966-1978  
 Data                 35.4 cms   R = 0.724 m yr<sup>-1</sup>   S = 3.62 g m<sup>-2</sup> yr<sup>-1</sup>

Name                 SAINT FRANCOIS A LA SORTIE DU LAC AYLMER  
 NAQUADAT Code       00PQ020E0035000  
 Lat Long             45-45-37N 71-24-23W  
 Period               73-11-21 to 75-11-19  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 6.1 \quad s = 1.5 \quad n = 23$   
 Gauge                SAINT FRANCOIS-RESERVOIR AYLMER 030202 1710 km<sup>2</sup>  
 Lat Long             45-45-37N 71-24-23W  
 Period               34 years  
 Data                34.4 cms   R = 0.634 m yr<sup>-1</sup>   S = 1.29 g m<sup>-2</sup> yr<sup>-1</sup>

Name SAINT-FRANCOIS AU PONT-ROUTE A PIERREVILLE  
NAQUADAT Code 00PQ020F0005000 03020G  
Lat Long 46-04-00N 72-49-00W  
Period 73-11-19 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 10.9 \quad s = 4.3 \quad n = 145$   
Gauge SAINT-FRANCOIS-CENTRALE DE HEMMINGS FALLS 030203 9610  $\text{km}^2$   
Lat Long 45-51-42N 72-27-11W  
Period 53 years  
Data 191 cms  $R = 0.626 \text{ m yr}^{-1} \quad S = 2.27 \text{ g m}^{-2} \text{ yr}^{-1}$

Name SAINT FRANCOIS AU PONT-ROUTE 20 A DRUMMONDVILLE  
NAQUADAT Code 00PQ020F0001000  
Lat Long 45-54-33N 72-29-47W  
Period 70-01-01 to 73-11-14  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 13.5 \quad s = 3.6 \quad n = 151$   
Gauge SAINT FRANCOIS-CENTRALE DE HEMMINGS FALLS 030203 9610  $\text{km}^2$   
Lat Long 45-51-42N 72-27-11W  
Period 53 years  
Data 191 cms  $R = 0.626 \text{ m yr}^{-1} \quad S = 2.82 \text{ g m}^{-2} \text{ yr}^{-1}$

Name EATON AU PONT-ROUTE 108 A COOKSHIRE  
 NAQUADAT Code 00PQ020E0020000  
 Lat Long 45-24-51N 71-37-26W  
 Period 70-01-01 to 72-03-01  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 10.3 \text{ s} = 4.5 \text{ n} = 183$   
 Gauge EATON A 0.6 KM DE LA SAINT-FRANCOIS (NO. 3) 030234 642  $\text{km}^2$   
 Lat Long 45-28-02N 71-39-19W  
 Period 46 years  
 Data  $13.3 \text{ cms} \quad R = 0.653 \text{ m yr}^{-1} \quad S = 2.24 \text{ g m}^{-2} \text{ yr}^{-1}$

Name YAMASKA A 3.5 KM EN AMONT DU PONT-ROUTE A FARNHAM  
 NAQUADAT Code 00PQ020G0002000  
 Lat Long 45-17-26N 72-56-48W  
 Period 70-01-13 to 78-03-19  
 SO<sub>4</sub><sup>--</sup> mg L<sup>-1</sup> x = 13.6 s = 4.1 n = 347  
 Gauge YAMASKA A 0.6 KM EN AMONT DU PONT-ROUTE A FARNHAM  
           030302 1270 km<sup>2</sup>  
 Lat Long 45-16-57N 72-57-57W  
 Period 38 years  
 Data 21.8 cms R = 0.541 m yr<sup>-1</sup> S = 2.45 g m<sup>-2</sup> yr<sup>-1</sup>

Name SAINT FRANCOIS A PONT-ROUTE 122 A ASCOT CORNER  
 NAQUADAT Code 00P0020E0021000  
 Lat Long 45-26-47N 71-45-59W  
 Period 70-07-10 to 75-11-19  
 SO<sub>4</sub><sup>--</sup> mg L<sup>-1</sup> x 9.6 s = 4.2 n = 85  
 Gauge SAINT FRANCOIS CENTRALE DE WESTBURY 030207 3320 km<sup>2</sup>  
 Lat Long 45-29-58N 71-37-04W  
 Period 1929-1979  
 Data 71.1 cms R = 0.675 m yr<sup>-1</sup> S = 2.16 g m<sup>-2</sup> yr<sup>-1</sup>

Name EATON AU PONT-ROUTE A 6.7 KM DE LA SAINT-FRANCOIS  
 NAQUADAT Code 00PQ020E0022000  
 Lat Long 45-25-18N 71-37-58W  
 Period 72-03-02 to 73-10-31  
 SO<sub>4</sub>-- mg L<sup>-1</sup>  $\bar{x} = 8.6 \quad s = 3.1 \quad n = 75$   
 Gauge EATON A 0.6 KM DE LA SAINT-FRANCOIS (NO. 3)  
           030234 642 km<sup>2</sup>  
 Lat Long 45-28-02N 71-39-19W  
 Period 1953-1979  
 Data 13.3 cms    R = 0.653 m yr<sup>-1</sup>    S = 1.87 g m<sup>-2</sup> yr<sup>-1</sup>

Name DAVID AU PONT-ROUTE A L'EMBOUCHURE  
 NAQUADAT Code 00PQ020G0036000  
 Lat Long 45-58-18N 72-53-52W  
 Period 73-11-12 to 75-11-12  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 28.2 \quad s = 13.4 \quad n = 23$   
 Gauge DAVID AU PONT-ROUTE A SAINT-DAVID 030316 342  $\text{km}^2$   
 Lat Long 45-57-13N 72-51-34W  
 Period 1969-1979  
 Data  $6.10 \text{ cms} \quad R = 0.562 \text{ m yr}^{-1} \quad S = 5.28 \text{ g m}^{-2} \text{ yr}^{-1}$

Name YAMASKA NORD AU PONT DE LA RUE CHURCH A LASORTIE DU  
 RESERVOIR BOIVIN  
 NAQUADAT Code 00PQ020G071000  
 Lat Long 45-23-52N 72-43-00W  
 Period 72-07-29 to 78-08-29  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 15.7 \quad s = 9.4 \quad n = 48$   
 Gauge YAMASKA NORD A 0.2 KM EN AMONT DU PONT-ROUTE A  
 SHEFFORDVALE 030309 153  $\text{km}^2$   
 Lat Long 45-24-57N 72-37-20W  
 Period 1968-1979  
 Data  $2.70 \text{ cms} \quad R = 0.556 \text{ m yr}^{-1} \quad S = 2.91 \text{ g m}^{-2} \text{ yr}^{-1}$

**Name** AU SAUMON AU PONT ROUTE DE GOULD  
**NAQUADAT Code** 00PQ020E0023000  
**Lat Long** 45-37-18N 71-23-35W  
**Period** 71-08-12 to 73-10-30  
 **$\text{SO}_4^{--}$  mg L<sup>-1</sup>**  $\bar{x} = 7.4$  s = 2.2 n = 59  
**Gauge** AU SAUMON A 1.9 KM EN AMONT DE LA MOFFAT 030282 746 km<sup>2</sup>  
**Lat Long** 45-34-50N 71-23-12W  
**Period** 1974-1979  
**Data** 20.1 cms R = 0.849 m yr<sup>-1</sup> S = 2.09 g m<sup>-2</sup> yr<sup>-1</sup>

**Name** NOIRE AU PONT-ROUTE 235 A SAINT-PIE  
**NAQUADAT Code** 00PQ020G0003000  
**Lat Long** 45-29-44N 72-54-11W  
**Period** 70-03-25 to 79-12-09  
 **$\text{SO}_4^{--}$  mg L<sup>-1</sup>**  $\bar{x} = 16.3$  s = 5.9 n = 142  
**Gauge** NOIRE A 7.6 KM DE LA YAMASKA 030304 1470 km<sup>2</sup>  
**Lat Long** 45-29-59N 72-54-23W  
**Period** 1965-1979  
**Data** 28.6 cms R = 0.613 m yr<sup>-1</sup> S = 3.33 g m<sup>-2</sup> yr<sup>-1</sup>

Name NOIRE AU PONT-ROUTE 116 A UPTON  
 NAQUADAT Code 00PQ020G0005000  
 Lat Long 45-38-56N 72-41-30W  
 Period 70-01-15 to 73-11-11  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 14.2 \quad s = 4.5 \quad n = 81$   
 Gauge NOIRE A 4.7 MI DE LA YAMASKA 030304 1470  $\text{km}^2$   
 Lat Long 45-26-59N 72-54-23W  
 Period 1970-1973  
 Data  $31.8 \text{ cms} \quad R = 0.681 \text{ m yr}^{-1} \quad S = 3.22 \text{ g m}^{-2} \text{ yr}^{-1}$

Name YAMASKA AU PONT-ROUTE A YAMASKA  
 NAQUADAT Code 00PQ020G0023000  
 Lat Long 46-00-15N 72-54-38W  
 Period 73-11-12 to 79-11-25  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 21.2 \quad s = 9.3 \quad n = 123$   
 Gauge YAMASKA A 0.6 KM EN AVAL DU BARRAGE A SAINT-HYACINTHE  
 030334 3370  $\text{km}^2$   
 Lat Long 45-37-18N 72-56-22W  
 Period 1977-1979  
 Data  $67.0 \text{ cms} \quad R = 0.626 \text{ m yr}^{-1} \quad S = 4.43 \text{ g m}^{-2} \text{ yr}^{-1}$

Name YAMASKA-NORD AU PONT-ROUTE A SHEFFORDVALE  
 NAQUADAT Code 00PQ020G0006000  
 Lat Long 45-24-52N 72-37-35W  
 Period 70-02-01 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 12.1 \quad s = 3.8 \quad n = 104$   
 Gauge YAMASKA NORD A 0.2 KM EN AMONT DU PONT-ROUTE A  
 SHEFFORDVALE 030309  $153 \text{ km}^2$   
 Lat Long 45-24-57N 72-37-20W  
 Period 5 years  
 Data  $2.76 \text{ cms} \quad R = 0.568 \text{ m yr}^{-1} \quad S = 2.29 \text{ g m}^{-2} \text{ yr}^{-1}$

Name YAMASKA AU PONT-ROUTE 20 A SAINT-HYACINTHE  
 NAQUADAT Code 00PQ020G0004000  
 Lat Long 45-39-02N 75-56-26W  
 Period 70-03-25 to 78-10-04  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 18.1 \quad s = 5.2 \quad n = 196$   
 Gauge YAMASKA A 0.6 KM EN AVAL DU BARRAGE A SAINT-HYACINTHE  
 030334  $3370 \text{ km}^2$   
 Lat Long 45-37-18N 72-56-22W  
 Period 1977-1978  
 Data  $82.1 \text{ cms} \quad R = 0.767 \text{ m yr}^{-1} \quad S = 4.63 \text{ g m}^{-2} \text{ yr}^{-1}$

## Data for Rivers in Quebec: Region 4

Name DU NORD AU PONT-ROUTE 344 A SAINT ANDRE  
 NAQUADAT Code 00PQ02LC0002000  
 Lat Long 45-33-45N 74-20-15W  
 Period 72-01-19 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 11.7 \quad s = 11.5 \quad n = 88$   
 Gauge DU NORD A 0.5 KM EN AVAL DU PONT C.P. PRES DE SAINT-AGATHE  
           040122 311  $\text{km}^2$   
 Lat Long 46-02-45N 74-15-10W  
 Period 1970-1978  
 Data 7.27 cms     $R = 0.736 \text{ m yr}^{-1}$      $S = 2.87 \text{ g m}^{-2} \text{ yr}^{-1}$

Name SIMON AU PONT-ROUTE A 1.6 KM DE L'EMBOUCHURE  
 NAQUADAT Code 00PQ02LC0011000  
 Lat Long 45-54-45N 74-09-19W  
 Period 76-05-26 to 78-08-22  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 7.5 \quad s = 0.9 \quad n = 14$   
 Gauge SIMON A 1.4 KM DE LA DU NORD 040127  $167 \text{ km}^2$   
 Lat Long 45-54-48N 74-09-07W  
 Period 1977-10 to 1978-09  
 Data  $3.91 \text{ cms} \quad R = 0.738 \text{ m yr}^{-1} \quad S = 1.84 \text{ g m}^{-2} \text{ yr}^{-1}$

Name BONNIEBROOK CREEK AU PONT-ROUTE A MIRABEL (ST-CANUT)  
 NAQUADAT Code 00PQ02LC0007000  
 Lat Long 45-43-23N 74-05-21W  
 Period 76-05-26 to 78-08-22  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 7.8 \quad s = 1.8 \quad n = 14$   
 Gauge BONNIEBROOK A 2.1 KM EN AVAL DE LA DECHARGE DU LAC FIDDLER  
                   040128  $54.1 \text{ km}^2$   
 Lat Long 45-48-04N 74-10-16W  
 Period 1977-10 to 1978-09  
 Data  $1.30 \text{ cms} \quad R = 0.757 \text{ m yr}^{-1} \quad S = 1.97 \text{ g m}^{-2} \text{ yr}^{-1}$

**Name** DE L'UEST AU PONT-ROUTE A 1.0 KM EN AMONT DE LACHUTE  
**NAQUADAT Code** 00PQ02LC0005000  
**Lat Long** 45-39-24N 74-21-06W  
**Period** 76-05-25 to 79-12-16  
 **$\text{SO}_4^{--}$  mg L<sup>-1</sup>**  $\bar{x} = 8.7$  s = 1.5 n = 31  
**Gauge** NO GAUGE  
**Lat Long**  
**Period**  
**Data**  $R = \sim 0.6 \text{ m yr}^{-1}$   $S = \sim 1.7 \text{ g m}^{-2} \text{ yr}^{-1}$

**Name** ROUGE AU PONT-ROUTE 148  
**NAQUADAT Code** 00PQ02LC0053000  
**Lat Long** 45-38-35N 74-41-26W  
**Period** 71-09-11 to 79-12-16  
 **$\text{SO}_4^{--}$  mg L<sup>-1</sup>**  $\bar{x} = 8.5$  s = 4.9 n = 193  
**Gauge** ROUGE EN AMONT DE LA CHUTE MCNEIL 040204 5460 km<sup>2</sup>  
**Lat Long** 45-44-11N 74-41-23W  
**Period** 39 years  
**Data** 103 cms  $R = 0.594 \text{ m yr}^{-1}$   $S = 1.68 \text{ g m}^{-2} \text{ yr}^{-1}$

Name DU LIEVRE AU PONT-ROUTE A NOTRE DAME-DE-LA-SALETTE  
 NAQUADAT Code 00PQ02LF0004000  
 Lat Long 45-46-18N 75-35-39W  
 Period 73-11-25 to 78-11-06  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 6.1 \quad s = 1.3 \quad n = 167$   
 Gauge DU LIEVRE - CENTRALE DE MASSON 040617  $9560 \text{ km}^2$   
 Lat Long 45-32-38N 75-25-30W  
 Period 21 years  
 Data 164 cms  $R = 0.540 \text{ m yr}^{-1}$   $S = 1.10 \text{ g m}^{-2} \text{ yr}^{-1}$

Name GATINEAU AU PONT-ROUTE DE FARRELLTON  
 NAQUADAT Code 00PQ02LH0001000 04080A  
 Lat Long 45-44-30N 75-54-24W  
 Period 71-09-10 to 73-11-18  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 7.1 \quad s = 1.7 \quad n = 58$   
 Gauge GATINEAU - CENTRALE DE PAUGAN FALLS 040803  $22500 \text{ km}^2$   
 Lat Long 45-48-34N 75-55-55W  
 Period 1928-1978  
 Data 347 cms  $R = 0.486 \text{ m yr}^{-1}$   $S = 1.15 \text{ g m}^{-2} \text{ yr}^{-1}$

Name GATINEAU AU PONT-ROUTE DE TOURaine  
 NAQUADAT Code 00PQ02LH0003000 04080C  
 Lat Long 45-29-12N 75-44-57W  
 Period 73-11-25 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 6.5 \quad s = 1.5 \quad n = 178$   
 Gauge GATINEAU - CENTRALE DE PAUGAN FALLS 040803 22 500 km<sup>2</sup>  
 Lat Long 45-48-34N 75-55-55W  
 Period 1928-1978  
 Data 347 cm  $R = 0.486 \text{ m yr}^{-1}$   $S = 1.05 \text{ g m}^{-2} \text{ yr}^{-1}$

Name COULONGE AU PONT-ROUTE 184 A FORT-COULONGE  
 NAQUADAT Code 00PQ02KG0002000  
 Lat Long 45-51-05N 76-43-49W  
 Period 79-01-14 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 8.1 \quad s = 1.1 \quad n = 9$   
 Gauge COULONGE A 8.4 KM EN AMONT DU PONT-ROUTE 148 PRES DE  
 FONT-COULONGE 041301 5150 km<sup>2</sup>  
 Lat Long 45-52-26N 76-41-09W  
 Period 1978-10 to 1979-09  
 Data 81.5 cms  $R = 0.498 \text{ m yr}^{-1}$   $S = 1.35 \text{ g m}^{-2} \text{ yr}^{-1}$

Name KIPAWA AU PONT-ROUTE 101 A LANIEL  
 NAQUADAT Code 00PQ02JE0002000  
 Lat Long 47-02-30N 79-16-14W  
 Period 78-12-10 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 10.0 \quad s = 0.5 \quad n = 15$   
 Gauge KIPAWA A LA SORTIE DU LAC DUMOINE 042607 2110  $\text{km}^2$   
 Lat Long 46-58-13N 78-02-33W  
 Period 1978-10 to 1979-09  
 Data  $7.96 \text{ cms} \quad R = 0.12 \text{ m yr}^{-1} \quad S = 1.83 \text{ g m}^{-2} \text{ yr}^{-1}$

Name KINOJEVIS AU PONT-ROUTE 117 A MCWATTER  
 NAQUADAT Code 00PQ02JB0002000  
 Lat Long 48-12-29N 78-51-45W  
 Period 78-12-10 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 17.7 \quad s = 7.5 \quad n = 16$   
 Gauge KINOJEVIS A 0.2 KM EN AMONT DU PONT-ROUTE A CLERICY  
 $043012 \quad 2590 \text{ km}^2$   
 Lat Long 48-21-51N 78-51-29W  
 Period 1978-10 to 1979-09  
 Data  $50.3 \text{ cms} \quad R = 0.612 \text{ m yr}^{-1} \quad S = 3.61 \text{ g m}^{-2} \text{ yr}^{-1}$

## Data for Rivers in Quebec: Region 5

Name SAINT-MAURICE A L'USINE DE FILTRATION DE TROIS-RIVIERES  
 NAQUADAT Code 00P002NG0004000  
 Lat Long 46-22-58N 72-36-38W  
 Period 73-11-19 to 78-12-10  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 5.5 \quad s = 1.1 \quad n = 204$   
 Gauge SAINT-MAURICE - CENTRALE DE GRAND-MERE 050115 42 000 km<sup>2</sup>  
 Lat Long 46-36-57N 72-40-46W  
 Period 78 years  
 Data 715 cms  $R = 0.54 \text{ m yr}^{-1} \quad S = 0.98 \text{ g m}^{-2} \text{ yr}^{-1}$

Name SAINT-MAURICE A LA CENTRALE DE LA GABELLE  
 NAQUADAT Code 00PQ02NG0001000  
 Lat Long 46-26-57N 72-44-21W  
 Period 70-01-14 to 73-11-13  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 6.5 \quad s = 1.5 \quad n = 56$   
 Gauge SAINT MAURICE - CENTRALE DE LA GABELLE 050133 42 700 km<sup>2</sup>  
 Lat Long 46-26-58N 72-44-24W  
 Period 10 years  
 Data 748 cms  $R = 0.55 \text{ m yr}^{-1} \quad S = 1.20 \text{ g m}^{-2} \text{ yr}^{-1}$

Name VERMILLON A 2.2 KM DU SAINT-MAURICE  
 NAQUADAT Code 00PQ02ND0001000  
 Lat Long 47-39-20N 72-57-46W  
 Period 71-06-10 to 72-03-21  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 4.8 \quad s = 0.8 \quad n = 5$   
 Gauge VERMILLON A 2.3 KM DU SAINT-MAURICE 050116 2670  $\text{km}^2$   
 Lat Long 47-39-20N 72-57-46W  
 Period 49 years  
 Data  $41.0 \text{ cms} \quad R = 0.484 \text{ m yr}^{-1} \quad S = 0.77 \text{ g m}^{-2} \text{ yr}^{-1}$

Name CROCHE A 2.6 KM EN AVAL DU RUISSEAU CHANGY  
 NAQUADAT Code 00PQ02NE0001000  
 Lat Long 47-46-01N 72-44-11W  
 Period 71-06-09 to 72-03-22  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 5.2 \quad s = 0.9 \quad n = 6$   
 Gauge CROCHE A 2.6 KM EN AVAL DU RUISSEAU CHANGY 050135  
 $1570 \text{ km}^2$   
 Lat Long 47-46-02N 72-44-12W  
 Period 1965-1979 14 years  
 Data  $31.9 \text{ cms} \quad R = 0.640 \text{ m yr}^{-1} \quad S = 1.11 \text{ g m}^{-2} \text{ yr}^{-1}$

Name CHAMPLAIN AU PONT-ROUTE A CHAMPLAIN  
 NAQUADAT Code 00PQ02PA0001000  
 Lat Long 46-27-02N 72-16-54W  
 Period 73-12-02 to 78-09-10  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 9.2 \quad s = 3.2 \quad n = 218$   
 Gauge NO GAUGE  
 Lat Long  
 Period  
 Data  $R = \sim 0.7 \text{ m yr}^{-1} \quad S = \sim 2.1 \text{ g m}^{-2} \text{ yr}^{-1}$   
  
  
  
 Name BATISCAN AU PONT-ROUTE A SAINT GENEVIEVE-DE-BATISCAN  
 NAQUADAT Code 00PQ02PA0002000  
 Lat Long 46-31-36N 72-20-21W  
 Period 70-01-05 to 78-12-10  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 5.9 \quad s = 3.4 \quad n = 303$   
 Gauge BATISCAN A 3.4 KM EN AVANT DE LA RIVIERE DES ENVIES  
           050304 4480 km<sup>2</sup>  
 Lat Long 46-35-01N 72-24-17W  
 Period 1967-1979 36 years  
 Data 102 cms  $R = 0.717 \text{ m yr}^{-1} \quad S = 1.41 \text{ g m}^{-2} \text{ yr}^{-1}$

Name SAINTE-ANNE AU PONT-ROUTE 138 A SAINTE-ANNE-DE-LA-PERADE  
 NAQUADAT Code 00PQ02PB0007000  
 Lat Long 46-34-18N 72-12-15W  
 Period 73-11-20 to 78-11-12  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 5.4 \quad s = 4.4 \quad n = 193$   
 Gauge SAINTE-ANNE A 1.3 KM EN AVAL DU BARRAGE A CHUTE-PANET  
           050408 1550  $\text{km}^2$   
 Lat Long 46-51-10N 71-52-39W  
 Period 1965-1979 13 years  
 Data 52.3 cms  $R = 1.06 \text{ m yr}^{-1} \quad S = 1.91 \text{ g m}^{-2} \text{ yr}^{-1}$

Name PORTNEUF A 1.9 KM DU SAINT-LAURENT  
 NAQUADAT Code 00PQ02PC0001000  
 Lat Long 46-41-57N 71-53-04W  
 Period 70-06-18 to 78-09-17  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 8.1 \quad s = 2.5 \quad n = 294$   
 Gauge PORTNEUF A 2.9 KM DU SAINT-LAURENT PRES DE PORTNEUF  
           050701 355  $\text{km}^2$   
 Lat Long 46-42-33N 71-52-29W  
 Period 1966-1979 12 years  
 Data 8.73 cms  $R = 0.775 \text{ m yr}^{-1} \quad S = 2.09 \text{ g m}^{-2} \text{ yr}^{-1}$

Name JACQUES CARTIER AU PONT-ROUTE A L'EMBOUCHURE A DONNACONA  
 NAQUADAT Code 00PQ02PC0006000  
 Lat Long 46-40-41N 71-45-07W  
 Period 73-11-21 to 78-11-12  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 4.6 \quad s = 1.7 \quad n = 216$   
 Gauge JACQUES CARTIER AU PONT DU C.N. PRES DE SAINT-GABRIEL  
       050801 2010  $\text{km}^2$   
 Lat Long 46-53-23N 71-31-38W  
 Period 1923-1979 45 years  
 Data 61.8 cms  $R = 0.969 \text{ m yr}^{-1}$   $S = 1.49 \text{ g m}^{-2} \text{ yr}^{-1}$

Name SAINT CHARLES AU PONT SCOTT  
 NAQUADAT Code 00PQ02PD0002000  
 Lat Long 46-48-32N 71-15-24W  
 Period 73-11-28 to 78-11-29  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 12.4 \quad s = 5.4 \quad n = 29 \quad \text{SSC} = 6.9$   
 Gauge SAINT-CHARLES A 0.8 KM EN AMONT DE LA LORETTE  
       050904 357  $\text{km}^2$   
 Lat Long 46-48-51N 71-19-03W  
 Period 1968-1979  
 Data 8.18 cms  $R = 0.722 \text{ m yr}^{-1}$  Excess S =  $1.66 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MONTMORENCY AU PONT-ROUTE 360 A COURVILLE  
 NAQUADAT Code 00PQ02PD0017000 05100P  
 Lat Long 46-53-30N 71-08-53W  
 Period 70-01-08 to 78-11-29  
 $\text{SO}_4^{2-} \text{ mg L}^{-1}$   $\bar{x} = 4.3 \quad s = 1.4 \quad n = 106$   
 Gauge MONTMORENCY A 0.6 KM EN AVAL DE LA CENTRALE DES  
       MARCHES-NATURELLES 051001 1100 km<sup>2</sup>  
 Lat Long 46-53-39N 71-09-05W  
 Period 1924-1978  
 Data 36.2 cms  $R = 1.04 \text{ m yr}^{-1}$   $S = 1.49 \text{ g m}^{-2} \text{ yr}^{-1}$

Note: From 70-01 to 78-11, mean flow was 39.0 cms,  
 $R = 1.12 \text{ m yr}^{-1}$ ,  $S = 1.60 \text{ g m}^{-2} \text{ yr}^{-1}$

Name RUISSEAU DES EAUX-VOLEES A 0.2 KM DE LA MONTMORENCY  
 NAQUADAT Code 00PQ02PD0005000 05100B  
 Lat Long 47-16-14N 71-08-16W  
 Period 70-01-05 to 75-07-02  
 $\text{SO}_4^{2-} \text{ mg L}^{-1}$   $\bar{x} = 3.5 \quad s = 0.6 \quad n = 131$   
 Gauge RUISSEAU DES EAUX VOLEES A 0.2 KM DE LA MONTMORENCY  
       051003 9.17 km<sup>2</sup>  
 Lat Long 47-16-15N 71-08-16W  
 Period 1966-1978  
 Data 0.33 cms  $R = 1.142 \text{ m yr}^{-1}$   $S = 1.33 \text{ g m}^{-2} \text{ yr}^{-1}$

Name RUISSSEAU DES AULNAIES OUEST A 0.2 KM EN AMONT DU CHEMIN DU  
 BELVEDERE  
 NAQUADAT Code 00PQ02PD0006000 05100C  
 Lat Long 47-17-21N 71-09-42W  
 Period 70-01-20 to 72-07-24  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 3.3 \quad s = 0.6 \quad n = 34$   
 Gauge RUISSSEAU DES AULNAIES OUEST A 0.2 KM EN AMONT DU CHEMIN DU  
 BELVEDERE 051004  $1.22 \text{ km}^2$   
 Lat Long 47-17-22N 71-09-42W  
 Period 1966-1978  
 Data  $0.038 \text{ cms} \quad R = 0.981 \text{ m yr}^{-1} \quad S = 1.08 \text{ g m}^{-2} \text{ yr}^{-1}$   
 Note: From 70-01 to 72-07, mean flow was 0.0364 cms,  $R = 0.941$   
 $\text{m yr}^{-1}, S = 1.03 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MONTMORENCY A 0.3 KM EN AMONT DE LA BLANCHE  
 NAQUADAT Code 00PQ02PD0007000 05100D  
 Lat Long 47-15-33N 71-08-12W  
 Period 70-01-19 to 72-07-24  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 4.2 \quad s = 1.0 \quad n = 33$   
 Gauge MONTMORENCY A 0.3 KM EN AMONT DE LA BLANCHE 051005  
 $269 \text{ km}^2$   
 Lat Long 47-15-33N 71-08-13W  
 Period 1966-1978  
 Data  $8.92 \text{ cms} \quad R = 1.04 \text{ m yr}^{-1} \quad S = 1.46 \text{ g m}^{-2} \text{ yr}^{-1}$   
 Note: From 70-01 to 72-07, mean flow was 9.34 cms,  
 $R = 1.09 \text{ m yr}^{-1}, S = 1.53 \text{ g m}^{-2} \text{ yr}^{-1}$

Name RUISSEAU DES AULNAIES A 0.2 KM DU RUISSEAU DES EAUX VOLEES  
 NAQUADAT Code 00PQ02PD0008000 05100E  
 Lat Long 47-16-21N 71-09-38W  
 Period 70-01-20 to 72-07-24  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 3.6 \quad s = 0.8 \quad n = 34$   
 Gauge RUISSEAU DES AULNAIES A 30 M DU RUISSEAU DES EAUX VOLEES  
                   051007  $3.57 \text{ km}^2$   
 Lat Long 47-16-21N 71-09-39W  
 Period 1971-1978  
 Data  $0.12 \text{ cms} \quad R = 1.06 \text{ m yr}^{-1} \quad S = 1.27 \text{ g m}^{-2} \text{ yr}^{-1}$

Name SAINTE-ANNE DU NORD A LA CENTRALE DE SAINT FEREOL  
 NAQUADAT Code 00PQ02PE0004000 05120A  
 Lat Long 47-07-23N 70-49-05W  
 Period 73-11-21 to 74-12-18  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 3.0 \quad s = 0.8 \quad n = 20$   
 Gauge SAINT-ANNE DU NORD - CENTRALE DE SAINT-FEREOL 051201  
                    $974 \text{ km}^2$   
 Lat Long 74-07-25N 70-49-06W  
 Period 73-11 to 74-12  
 Data  $31.57 \text{ cms} \quad R = 1.02 \text{ m yr}^{-1} \quad S = 1.02 \text{ g m}^{-2} \text{ yr}^{-1}$

Name SAINTE-ANNE DU NORD AU PONT-ROUTE 183 A BEAUPRE  
 NAQUADAT Code 00PQ02PE0003000 05120C  
 Lat Long 47-03-02N 70-53-03W  
 Period 76-11-04 to 78-11-29  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 4.0 \quad s = 0.6 \quad n = 10$   
 Gauge SAINTE-ANNE DU NORD - CENTRALE DE SAINT-FEREOL 051201  
 $974 \text{ km}^2$   
 Lat Long 47-07-25N 70-49-06W  
 Period 1912-1978  
 Data  $24.9 \text{ cms} \quad R = 0.805 \text{ m yr}^{-1} \quad S = 1.07 \text{ g m}^{-2} \text{ yr}^{-1}$

Name SAINTE-ANNE DU NORD AU PONT-ROUTE DE SAINT-FEREOL  
 NAQUADAT Code 00PQ02PE0002000 05120B  
 Lat Long 47-10-09N 70-47-44W  
 Period 70-06-17 to 73-11-26  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 4.2 \quad s = 1.2 \quad n = 73$   
 Gauge SAINTE ANNE DU NORD - CENTRALE DE SAINT-FEREOL 051201  
 $974 \text{ km}^2$   
 Lat Long 47-07-25N 70-49-06W  
 Period 1912-1978  
 Data  $24.9 \text{ cms} \quad R = 0.805 \text{ m yr}^{-1} \quad S = 1.13 \text{ g m}^{-2} \text{ yr}^{-1}$

Name DU GOUFFRE AU PONT-ROUTE 138 PRES DE SAINT-URBAIN  
 NAQUADAT Code 00PQ02PE0001000  
 Lat Long 47-31-28N 70-30-42W  
 Period 70-03-11 to 78-12-10  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 4.0 \quad s = 1.2 \quad n = 65$   
 Gauge DU GOUFFRE A 1.6 KM EN AMONT DU PONT-ROUTE 362 A  
                   BAIE-SAINT-PAUL 051301  $865 \text{ km}^2$   
 Lat Long 47-26-51N 70-30-38W  
 Period 11 years 1967-1979  
 Data  $20.4 \text{ cms} \quad R = 0.743 \text{ m yr}^{-1} \quad S = 0.991 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MALBAIE A 1.6 KM EN AMONT DU PONT-ROUTE 138  
 NAQUADAT Code 00PQ02PF0002000 05150B  
 Lat Long 47-40-18N 70-09-38W  
 Period 74-08-24 to 75-01-19  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 5.8 \quad s = 1.5 \quad n = 20$   
 Gauge MALBAIE A 0.3 KM EN AVAL DU PONT-ROUTE A CLERMONT  
                   051502  $1700 \text{ km}^2$   
 Lat Long 47-41-39N 70-13-01W  
 Period 1967-1978  
 Data  $36.4 \text{ cms} \quad R = 0.674 \text{ m yr}^{-1} \quad S = 1.30 \text{ g m}^{-2} \text{ yr}^{-1}$

Name                    OUAREAU AU PONT-ROUTE A 1.9 KM D L'EMBOUCHERE  
 NAQUADAT Code        00PQ020B0012000  
 Lat Long              45-57-06N 73-24-51W  
 Period                76-06-08 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 9.7$    s = 2.8   n = 28  
 Gauge                 OUAREAU A LA TETE DES CHUTES DARWIN 052212 1270  $\text{km}^2$   
 Lat Long              46-01-48N 73-42-19W  
 Period                58 years  
 Data                 25.3 cms   R = 0.628 m  $\text{yr}^{-1}$    S = 2.03 g  $\text{m}^{-2} \text{ yr}^{-1}$

Name                    L'ASSOMPTION AU PONT-ROUTE A SAINT PAUL L'ERmite  
 NAQUADAT Code        00PQ020B0003000  
 Lat Long              45-45-06N 73-28-04W  
 Period                73-12-02 to 78-12-11  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$      $\bar{x} = 9.9$    s = 3.4   n = 132  
 Gauge                 L'ASSOMPTION AU PONT-ROUTE 50 A JOLIETTE 052219 1340  $\text{km}^2$   
 Lat Long              46-00-37N 73-25-39W  
 Period                1969-1979  
 Data                 23.4 cms   R = 0.550 m  $\text{yr}^{-1}$    S = 1.82 g  $\text{m}^{-2} \text{ yr}^{-1}$

Name L'ASSOMPTION AU PONT-ROUTE 131 A JOLIETTE  
 NAQUADAT Code 00PQ020B0001000  
 Lat Long 46-02-17N 73-26-26W  
 Period 70-05-01 to 73-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 8.9 \quad s = 1.9 \quad n = 76$   
 Gauge L'ASSOMPTION AU PONT-ROUTE 50 A JOLIETTE 052219 1340  $\text{km}^2$   
 Lat Long 46-00-37N 73-25-39W  
 Period 57 years  
 Data 23.3 cms  $R = 0.548 \text{ m yr}^{-1}$   $S = 1.62 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MASKINONGE AU PONT-ROUTE 138 A MASKINONGE  
 NAQUADAT Code 00PQ020C0002000  
 Lat Long 46-13-41N 73-00-55W  
 Period 70-07-02 to 73-11-13  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 7.8 \quad s = 1.6 \quad n = 79$   
 Gauge MASKINONGE AU BARRAGE DE SAINT DIDACE 052604 836  $\text{km}^2$   
 Lat Long 46-19-45N 73-16-40W  
 Period  
 Data Water levels only  $R = \sim 0.58 \text{ m yr}^{-1}$   $S = \sim 1.5 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MASKINONGE AU PONT DU RANG RIVIERE SUD OUEST  
 NAQUADAT Code 00PQ020C0003000  
 Lat Long 46-10-54N 73-02-03W  
 Period 73-11-19 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 7.5 \quad s = 4.9 \quad n = 196$   
 Gauge 052600  
 Lat Long  
 Period  
 Data  $R = \sim 0.56 \text{ m yr}^{-1} \quad S = 1.4 \text{ g m}^{-2} \text{ yr}^{-1}$

Name DU LOUP A ENVIRON 3.2 KM DE L'EMBOUCHURE  
 NAQUADAT Code 00PQ020C0004000  
 Lat Long 46-14-35N 72-55-27W  
 Period 76-10-17 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 6.8 \quad s = 1.7 \quad n = 97$   
 Gauge DU LOUP A 0.3 KM EN AVAL DU RUISSEAU CARUFEL 052805  
 $774 \text{ km}^2$   
 Lat Long 46-36-02N 73-11-11W  
 Period 1965-1979  
 Data 1.31 cms  $R = 0.533 \text{ m yr}^{-1} \quad S = 1.21 \text{ g m}^{-2} \text{ yr}^{-1}$

Name LA BAYONNE AU PONT-ROUTE A BERTHIER  
NAQUADAT Code 00PQ020B0077000  
Lat Long 46-05-39N 73-10-23W  
Period 73-12-02 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 12.2 \quad s = 4.5 \quad n = 189$   
Gauge NO GAUGE  
Lat Long  
Period  
Data  $R = \sim 0.56 \text{ m yr}^{-1} \quad S = 2.28 \text{ g m}^{-2} \text{ yr}^{-1}$

Name YAMACHICHE AU PONT-ROUTE DESAULNIERS A YAMACHICHE  
NAQUADAT Code 00PQ020C0007000  
Lat Long 46-17-44N 72-48-15W  
Period 73-12-02 to 78-09-10  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 8.0 \quad s = 3.0 \quad n = 215$   
Gauge NO GAUGE  
Lat Long  
Period  
Data  $R \sim 0.55 \text{ m yr}^{-1} \quad S \sim 1.5 \text{ g m}^{-2} \text{ yr}^{-1}$

Name DU LOUP A L'USINE DE FILTRATION A SAINT-LEON  
 NAQUADAT Code 00PQ020C0006000  
 Lat Long 46-17-47N 72-54-46W  
 Period 73-11-19 to 76-11-22  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 6.6 \quad s = 2.3 \quad n = 79$   
 Gauge DU LOUP A 0.3 KM EN AVAL DU RUISSEAU CARUFEL 052805  
 $774 \text{ km}^2$   
 Lat Long 46-38-02N 73-11-11W  
 Period 1965-1979 13 years  
 Data  $13.1 \text{ cms} \quad R = 0.533 \text{ m yr}^{-1} \quad S = 1.17 \text{ g m}^{-2} \text{ yr}^{-1}$

Name DU LOUP AU PONT DU C.P.R. A LOUISEVILLE  
 NAQUADAT Code 00PQ020C0005000  
 Lat Long 46-15-41N 72-56-16W  
 Period 71-06-17 to 73-11-13  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 7.5 \quad s = 1.9 \quad n = 66$   
 Gauge DU LOUP A 0.3 KM EN AVAL DU RUISSEAU CARUFEL 052805  
 $774 \text{ km}^2$   
 Lat Long 46-38-02N 73-11-11W  
 Period 1965-1979 13 years  
 Data  $13.1 \text{ cms} \quad R = 0.533 \text{ m yr}^{-1} \quad S = 1.33 \text{ g m}^{-2} \text{ yr}^{-1}$

A-5-16

Name L'ACHIGAN AU PONT-ROUTE A 1.0 KM D L'EMBOUCHERE  
NAQUADAT Code 00PQ020B0005000  
Lat Long 45-50-53N 73-26-53W  
Period 76-06-07 to 78-08-22  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 12.4 \quad s = 2.5 \quad n = 14$   
Gauge NO GAUGE  
Lat Long  
Period  
Data  $R = \sim 0.63 \text{ m yr}^{-1} \quad S = 2.60 \text{ g m}^{-2} \text{ yr}^{-1}$

## Data for Rivers in Quebec: Region 6

The Kenogami Reservoir has a watershed of  $3390 \text{ km}^2$ , but the discharge from the reservoir is divided between the Aux Sables and the Chicoutimi Rivers. The combined mean daily discharge for the six months of chemical record was 74.5 cms. For an annual mean daily discharge of 74.5 cms, runoff for the watershed would be  $0.692 \text{ m yr}^{-1}$ .  $S = 1.05 \text{ g m}^{-2} \text{ yr}^{-1}$ .

Name	AUX SABLES AU PONT-ROUTE A 1.6 KM EN AVAL DU BARRAGE PIBRAC
NAQUADAT Code	00P002RH0004000
Lat Long	48-22-14N 71-16-59W
Period	79-03-14 to 79-08-29
$\text{SO}_4^{--} \text{ mg L}^{-1}$	$\bar{x} = 4.5 \quad s = 0.6 \quad n = 9$
Gauge	AUX SABLES A 1.6 KM EN AVAL DU BARRAGE PIBRAC-EST 061021
Lat Long	48-22-16N 71-17-02W
Period	1979-03 to 1979-08

Name	CHICOUTIMI AU BARRAGE PORTAGE-DES-ROCHES A LATERRIERE
NAQUADAT Code	00P002RH0007000
Lat Long	48-13-33N 71-12-45W
Period	79-03-12 to 79-08-29
$\text{SO}_4^{--} \text{ mg L}^{-1}$	$\bar{x} = 4.6 \quad s = 0.7 \quad n = 9$
Gauge	CHICOUTIMI A 1.3 KM EN AVAL DU BARRAGE PORTAGE DES ROCHES 061004
Lat Long	48-18-16N 71-11-40W
Period	1979-03 to 1979-08

Name METABETCHOUANE AU PONT-ROUTE 169 A DESBIENS  
 NAQUADAT Code 00PQ02RG0001000  
 Lat Long 48-25-05N 71-57-56W  
 Period 74-05-27 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 4.2 \quad s = 1.3 \quad n = 138$   
 Gauge METABETCHOUANE A 1.8 KM EN AMONT DE LA CENTRALE S.R.P.C.  
           061502 2280 km<sup>2</sup>  
 Lat Long 48-22-30N 71-59-37W  
 Period 1978-10 to 1979-09  
 Data 48.1 cms R = 0.665 m yr<sup>-1</sup> S = 0.930 g m<sup>-2</sup> yr<sup>-1</sup>

Name PETIT SAGUENAY AU PONT-ROUTE A PETIT SAGUENAY  
 NAQUADAT Code 00PQ02RH0001000  
 Lat Long 48-12-33N 70-04-09W  
 Period 74-03-20 to 78-09-10  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 3.6 \quad s = 0.9 \quad n = 179$   
 Gauge PETIT SAGUENAY A 3.1 KM EN AMONT DU PONT-ROUTE 170  
           060101 736 km<sup>2</sup>  
 Lat Long 48-11-10N 70-03-02W  
 Period 1974-1979 4 years  
 Data 17.8 cms R = 0.762 m yr<sup>-1</sup> S = 0.914 g m<sup>-2</sup> yr<sup>-1</sup>

Name CHAMOUCHOUANE AU PONT-ROUTE DE SAINT-FELICIEN  
 NAQUADAT Code 00PQ02RFO001000  
 Lat Long 48-39-29N 72-26-47W  
 Period 70-01-01 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 3.8 \text{ s} = 2.7 \text{ n} = 368$   
 Gauge CHAMOUCHOUANE A LA TETE DE LA CHUTE AUX SAUMONS 061901  
 $15 \text{ } 300 \text{ km}^2$   
 Lat Long 48-41-11N 7-29-12W  
 Period 17 years  
 Data 307 cms  $R = 0.632 \text{ m yr}^{-1}$   $S = 0.569 \text{ g m}^{-2} \text{ yr}^{-1}$

Name OULATCHOUANE AU PONT-ROUTE 169 A VALHUBERT  
 NAQUADAT Code 00PQ02RG0002000  
 Lat Long 48-26-48N 72-09-38W  
 Period 70-06-09 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 3.9 \text{ s} = 1.2 \text{ n} = 326$   
 Gauge OULATCHOUANE A 0.3 KM EN AVAL DU BARRAGE DU LAC DES  
 COMMISSAIRES 061602  $562 \text{ km}^2$   
 Lat Long 48-12-22N 72-14-20W  
 Period 1966-1979 15 years  
 Data 12.0 cms  $R = 0.673 \text{ m yr}^{-1}$   $S = 0.874 \text{ g m}^{-2} \text{ yr}^{-1}$

Name SAINTE MARGUERITE A 0.8 KM EN AVAL DE LA SAINTE-MARGUERITE  
 NORDE-EST  
 NAQUADAT Code 00PQ02RH0024000  
 Lat Long 48-16-18N 69-55-59W  
 Period 77-01-23 to 78-10-08  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 3.8 \quad s = 0.9 \quad n = 72$   
 Gauge NO GAUGE  
 Lat Long  
 Period  
 Data  $R \sim 0.87 \text{ m yr}^{-1} \quad S \sim 1.10 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MISTASSINI AU PONT-ROUTE 169 A DOLBEAU  
 NAQUADAT Code 00PQ02RD0002000  
 Lat Long 48-52-07N 72-13-40W  
 Period 70-01-11 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 3.9 \quad s = 1.2 \quad n = 323$   
 Gauge MISTASSINI A 3.4 KM EN AMONT DE LA MISTASSIBI  
           062102 9870  $\text{km}^2$   
 Lat Long 48-53-16N 72-15-48W  
 Period 17 years  
 Data 196 cms  $R = 0.626 \quad S = 0.813 \text{ g m}^{-2} \text{ yr}^{-1}$

Name OUASIEMSKA AU PONT-ROUTE DE GERARDVILLE  
 NAQUADAT Code 00PQ02RE0001000  
 Lat Long 49-01-32N 72-34-09W  
 Period 70-06-09 to 74-05-28  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 4.1 \quad s = 1.5 \quad n = 105$   
 Gauge NO GAUGE  
 Lat Long  
 Period  
 Data  $R \sim 0.63 \text{ m yr}^{-1} \quad S \sim 0.86 \text{ g m}^{-2} \text{ yr}^{-1}$

Name PERIBONCA AU PONT-ROUTE 169 A SAINTE-MONIQUE  
 NAQUADAT Code 00PQ02RC0002000  
 Lat Long 48-44-35N 71-51-24W  
 Period 70-01-18 to 79-12-17  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 3.3 \quad s = 3.2 \quad n = 302$   
 Gauge PERIBONCA-CENTRALE DE CHUTE-À-LA-SAVANNE 062203 26 900  $\text{km}^2$   
 Lat Long 48-45-15N 71-50-24W  
 Period 1954-1979 25 years  
 Data 617 cms  $R = 0.723 \quad S = 0.771 \text{ g m}^{-2} \text{ yr}^{-1}$

Name SAGUENAY AU PONT-ROUTE A CHICOUTIMI  
 NAQUADAT Code 00PQ02RH0028000  
 Lat Long 48-26-02N 71-04-01W  
 Period 70-01-01 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 4.2 \quad s = 1.1 \quad n = 395$   
 Gauge SAUGENAY - CENTRALE D'ISLE-MALIGNE 062901  $73\ 000 \text{ km}^2$   
 Lat Long 48-34-38N 71-30-07W  
 Period 1913-1979 66 years  
 Data 1460 cms  $R = 0.630 \text{ m yr}^{-1}$   $S = 0.88 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MITASSINI AU PONT-ROUTE 169  
 NAQUADAT Code 00PQ02RD0003000  
 Lat Long 48-53-57N 72-12-42W  
 Period 70-06-08 to 79-12-17  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} 3.6 \quad s = 1.5 \quad n = 313$   
 Gauge NO GAUGE  
 Lat Long  
 Period  
 Data  $R \sim 0.63 \text{ m yr}^{-1}$   $S \sim 0.75 \text{ g m}^{-2} \text{ yr}^{-1}$

## Data for Rivers in Quebec: Region 7

Name DES ESCOUMAINS AU BARRAGE PRES DU PONT-ROUTE 138 A  
ESCOUMAINS

NAQUADAT Code 00PQ02SC0003000

Lat Long 48-20-49N 69-24-29W

Period 73-11-06 to 79-10-29

$\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 2.8$   $s = 0.6$   $n = 164$

Gauge DES ESCOUMAINS A 1.9 MI EN AMONT DU PONT-ROUTE 15 A  
ESCOUMAINS 070201 739  $\text{km}^2$

Lat Long

Period 15 years (to 1971)

Data  $15.3 \text{ cms}$   $R = 0.608 \text{ m yr}^{-1}$   $S = 0.57 \text{ g m}^{-2} \text{ yr}^{-1}$

Name BETSIAMITES AU PONT-ROUTE 138 DE RIVIERE-BERSIMIS  
 NAQUADAT Code 00PQ02SB0001000  
 Lat Long 48-56-26N 64-44-30W  
 Period 73-11-06 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 3.8 \quad s = 1.0 \quad n = 13$   
 Gauge BETSIAMITES - RESERVOIR PIPMUACAN 0707 13 400  $\text{km}^2$   
 Lat Long 49-21-15N 69-47-15W  
 Period 1956-1978 (17 years)  
 Data 232 cms  $R = 0.545 \text{ m yr}^{-1} \quad S = 0.69 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MANICOUAGAN AU PONT-ROUTE 138 DE HAUTERIVE  
 NAQUADAT Code 00PQ02TC0001000  
 Lat Long 49-11-35N 68-19-36W  
 Period 73-11-06 to 79-12-16  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 3.0 \quad s = 0.3 \quad n = 13$   
 Gauge MANICOUAGAN - CENTRALE NO. 2 071104 45 600  $\text{km}^2$   
 Lat Long 49-20-06N 68-20-51W  
 Period 1964-1978 13 years  
 Data 737 cms  $R = 0.509 \quad S = 0.509 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MATAMEK AU PONT-ROUTE 138 A MATAMEK  
 NAQUADAT Code 00PQ02UC0005000  
 Lat Long 50-17-12N 65-58-05W  
 Period 70-08-23 to 78-08-12  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 3.71 \quad s = 1.7 \quad n = 133$   
 Gauge MATAMEK A LA SORTIE DU LAC MATAMEK 072502 458 km<sup>2</sup>  
 Lat Long 50-20-30N 65-56-19W  
 Period 1974-1979 (4 years)  
 Data 13.3 cms R = 0.915 m yr<sup>-1</sup> S = 1.13 g m<sup>-2</sup> yr<sup>-1</sup>

Name ROMAINE AU PONT-ROUTE 138 A HAVRE-SAINT-PIERRE  
 NAQUADAT Code 00PQ02VC0003000  
 Lat Long 50-18-06N 63-47-53W  
 Period 47-07-18 to 79-12-09  
 $\text{SO}_4^{--} \text{ mg L}^{-1}$   $\bar{x} = 2.43 \quad s = 0.8 \quad n = 94$   
 Gauge ROMAINE AU PONT DE LA Q.I.T. A 14.8 KM DE L'EMBOUCHURE  
 073801 13 000 km<sup>2</sup>  
 Lat Long 50-18-28N 63-37-21W  
 Period 1956-1979 22 years  
 Data 307 cms R = 0.744 S = 0.603 g m<sup>-2</sup> yr<sup>-1</sup>

Name AUX ROCHERS AU PONT-ROUTE 138 A PORT-CARTIER  
 NAQUADAT Code 00PQ02UA0005000  
 Lat Long 50-01-54N 66-52-36W  
 Period 70-01-13 to 79-12-16  
 $\text{SO}_4^{2-} \text{ mg L}^{-1}$   $\bar{x} = 3.33$   $s = 0.8$   $n = 172$   
 Gauge NO GAUGE  
 Lat Long  
 Period  
 Data  $R \sim = 0.85 \text{ m yr}^{-1}$   $S \sim = 0.9 \text{ g m}^{-2} \text{ yr}^{-1}$

Name MOISIE AU PONT-ROUTE 138 A MOISIE  
 NAQUADAT Code 00PQ02UC0003000  
 Lat Long 50-16-10N 66-02-04W  
 Period 74-08-33 to 79-12-17  
 $\text{SO}_4^{2-} \text{ mg L}^{-1}$   $\bar{x} = 2.26$   $s = 145$   $n = 28$   
 Gauge MOISIE A 5.1 KM EN AMONT DU PONT DU Q.N.S.L.R.  
 072301 19 000  $\text{km}^2$   
 Lat Long 50-21-01N 66-11-25W  
 Period 1965-1979  
 Data 467 cms  $R = 0.774$   $S = 0.583 \text{ g m}^{-2} \text{ yr}^{-1}$

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