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UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

05020500

ST MARY RIVER AT INTERNATIONAL BOUNDARY

05AE027

DISCHARGE, IN CUBIC METRES PER SECOND, CALENDAR YEAR JANUARY 1985 TO DECEMBER 1985  
MEAN VALUES

| DAY              | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG    | SEP    | OCT   | NOV    | DEC    |
|------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|-------|--------|--------|
| 1                | b 2.12 | b 2.12 | b 1.98 | b 1.98 | 23.5   | 60.0   | 25.3  | 11.5   | 11.0   | 19.1  | 26.7   | b 7.36 |
| 2                | 2.12   | 2.12   | 1.98   | 2.12   | 27.5   | 56.1   | 24.9  | 11.8   | 9.46   | 18.1  | 25.7   | 7.08   |
| 3                | 2.41   | 1.98   | 1.84   | 2.41   | 30.9   | 51.8   | 24.7  | 11.9   | 8.89   | 18.1  | 24.9   | 6.80   |
| 4                | 2.69   | 1.98   | 1.84   | b 2.69 | 38.2   | 46.7   | 24.9  | 11.7   | 9.54   | 17.3  | 24.9   | 6.51   |
| 5                | 2.97   | 1.98   | 1.84   | 2.86   | 42.5   | 42.8   | 27.3  | 11.5   | 8.55   | 16.7  | 26.9   | 6.23   |
| 6                | 3.26   | 1.98   | 1.84   | 2.83   | 39.1   | 39.9   | 31.7  | 10.9   | 9.43   | 16.8  | 28.6   | 6.09   |
| 7                | 3.40   | 1.98   | 1.84   | 2.72   | 32.8   | 40.8   | 35.4  | 9.88   | 10.1   | 16.8  | 29.2   | 5.95   |
| 8                | 3.11   | 1.98   | 1.84   | 2.89   | 28.6   | 58.6   | 39.1  | 9.20   | 11.6   | 16.4  | 29.2   | 5.80   |
| 9                | 2.97   | 1.98   | 1.70   | 3.23   | 27.5   | 75.0   | 36.0  | 8.89   | 14.7   | 16.1  | 27.6   | 5.80   |
| 10               | 2.83   | 1.98   | 1.70   | 3.51   | 27.9   | 76.5   | 30.0  | 8.35   | 18.2   | 16.2  | 25.5   | 5.95   |
| 11               | 2.69   | 1.98   | 1.56   | 3.91   | 28.9   | 70.2   | 25.5  | 8.35   | 19.3   | 15.5  | 23.6   | 5.80   |
| 12               | 2.69   | 1.98   | 1.56   | 4.39   | 28.6   | 61.4   | 18.3  | 9.20   | 24.7   | 15.8  | 22.1   | 5.66   |
| 13               | 2.55   | 1.98   | 1.56   | 5.66   | 25.7   | 53.0   | 14.8  | 10.6   | 31.7   | 14.9  | 20.3   | 5.52   |
| 14               | 2.55   | 1.98   | 1.70   | 8.01   | 23.4   | 47.6   | 18.6  | 10.3   | 29.4   | 13.8  | 19.3   | 5.38   |
| 15               | 2.41   | 1.98   | 1.98   | 11.8   | 21.2   | 43.9   | 22.6  | 10.8   | 28.3   | 13.9  | 18.4   | 5.24   |
| 16               | 2.41   | 2.12   | 2.83   | 15.1   | 20.8   | 41.1   | 24.5  | 13.2   | 27.9   | 14.6  | 17.5   | 5.10   |
| 17               | 2.41   | 2.12   | 3.68   | 17.6   | 21.5   | 39.1   | 21.4  | 13.2   | 23.4   | 15.6  | 16.1   | 4.96   |
| 18               | 2.41   | 2.12   | 4.25   | 19.4   | 23.9   | 36.2   | 18.2  | 13.1   | 25.5   | 15.8  | 14.6   | 4.81   |
| 19               | 2.41   | 2.12   | 4.81   | 20.8   | 29.7   | 34.0   | 15.2  | 12.7   | 24.0   | 16.2  | 13.5   | 4.67   |
| 20               | 2.27   | 2.12   | 5.10   | 21.0   | 37.4   | 33.1   | 15.0  | 13.6   | 21.7   | 17.0  | 12.5   | 4.53   |
| 21               | 2.27   | 2.12   | 4.25   | 19.8   | 44.5   | 34.3   | 15.0  | 15.1   | 18.8   | 17.0  | 11.7   | 4.39   |
| 22               | 2.27   | 1.98   | 3.68   | 17.7   | 50.4   | 31.7   | 15.9  | 15.0   | 16.1   | 17.5  | b 10.5 | 4.25   |
| 23               | 2.27   | 1.98   | 2.27   | 16.3   | 51.3   | 29.2   | 15.8  | 14.9   | 16.4   | 18.1  | 9.91   | 4.25   |
| 24               | 2.27   | 1.98   | 2.83   | 15.5   | 52.7   | 25.9   | 15.8  | 14.3   | 20.8   | 18.3  | 9.49   | 4.11   |
| 25               | 2.27   | 1.98   | 2.27   | 14.3   | 58.0   | 22.7   | 16.4  | 14.0   | 23.9   | 20.4  | 9.06   | 3.96   |
| 26               | 2.27   | 1.98   | 1.98   | 14.0   | 65.1   | 20.2   | 16.5  | 13.6   | 26.5   | 21.7  | 8.78   | 3.88   |
| 27               | 2.12   | 1.98   | 1.70   | 13.2   | 65.1   | 18.3   | 15.8  | 13.1   | 24.7   | 23.5  | 8.35   | 3.82   |
| 28               | 2.12   | b 1.98 | 1.56   | 12.8   | 58.6   | 18.4   | 14.5  | 12.7   | 22.5   | 25.9  | 8.07   | 3.74   |
| 29               | 2.12   | ---    | 1.42   | 12.4   | 51.5   | 22.0   | 13.6  | 12.3   | 21.0   | 27.3  | 7.79   | 3.68   |
| 30               | 2.12   | ---    | 1.27   | 16.8   | 58.0   | 24.9   | 12.5  | 11.8   | 19.8   | 27.7  | 7.65   | 3.68   |
| 31               | b 2.12 | ---    | b 1.56 | ---    | 61.4   | ---    | 11.8  | 10.6   | ---    | 27.7  | b ---  | b 3.54 |
| TOTAL            | 76.90  | 56.56  | 72.22  | 307.71 | 1196.2 | 1255.4 | 657.0 | 368.07 | 577.87 | 569.8 | 538.40 | 158.54 |
| MEAN             | 2.48   | 2.02   | 2.33   | 10.3   | 38.6   | 41.8   | 21.2  | 11.9   | 19.3   | 18.4  | 18.0   | 5.11   |
| MAX              | 3.40   | 2.12   | 5.10   | 21.0   | 65.1   | 76.5   | 39.1  | 15.1   | 31.7   | 27.7  | 29.2   | 7.36   |
| MIN              | 2.12   | 1.98   | 1.27   | 1.98   | 20.8   | 18.3   | 11.8  | 8.35   | 8.55   | 13.8  | 7.65   | 3.54   |
| DAM <sup>3</sup> | 6640   | 4890   | 6240   | 26600  | 103000 | 108000 | 56800 | 31800  | 49900  | 49200 | 46500  | 13700  |

FOR 1985:

TOTAL DISCHARGE: 504 100 DAM<sup>3</sup>.

MAX DISCH: 81.3 M<sup>3</sup>/S AT 0200 HRS ON JUNE 10 (G.H. 1.929 M).

MIN DAILY DISCH: 1.27 M<sup>3</sup>/S ON MARCH 30.

APPROVED: *Joe A. Marchand*  
FOR THE UNITED STATES

*J.H.H.*  
FOR CANADA

b--STAGE-DISCHARGE RELATION AFFECTED BY ICE.

05015500

LAKE SHERBURNE AT SHERBURNE, MT

05AE03

Month end gage heights and contents at 2400 hours

| Date           | Gage height (metres) | Contents (cubic decametres) | Change in contents (cubic decametres) |
|----------------|----------------------|-----------------------------|---------------------------------------|
| Sept. 30, 1984 | 16.737               | 29 500                      |                                       |
| Oct. 31, 1984  | 18.614               | 37 700                      | + 8 200                               |
| Nov. 30, 1984  | 19.788               | 43 150                      | + 5 450                               |
| Dec. 31, 1984  | 20.361               | 45 890                      | + 2 740                               |
| --             | --                   | --                          |                                       |
|                |                      | 1984 calendar year          | +13 080                               |
| Jan. 31, 1985  | 20.662               | 47 360                      | + 1 470                               |
| Feb. 28, 1985  | 20.909               | 48 570                      | + 1 210                               |
| Mar. 31, 1985  | 19.693               | 42 700                      | - 5 870                               |
| Apr. 30, 1985  | 12.719               | 14 450                      | -28 250                               |
| May 31, 1985   | 18.145               | 35 590                      | +21 140                               |
| June 30, 1985  | 25.018               | 71 890                      | +36 300                               |
| July 31, 1985  | 21.687               | 52 550                      | -19 340                               |
| Aug. 31, 1985  | 12.984               | 15 340                      | -37 210                               |
| Sept. 30, 1985 | 11.067               | 9 310                       | - 6 030                               |
| --             | --                   | --                          |                                       |
|                |                      | 1985 water year             | -20 190                               |
| Oct. 31, 1985  | 16.170               | 27 170                      | +17 860                               |
| Nov. 30, 1985  | 19.309               | 40 900                      | +13 730                               |
| Dec. 31, 1985  | 19.900               | 43 680                      | + 2 780                               |
|                |                      | 1985 calendar year          | - 2 210                               |

Maximum contents: 74 220 dam<sup>3</sup> at 1800 hrs on July 12 (gage height 25.390 m).

Minimum contents: 5 770 dam<sup>3</sup> at 0830 hrs on Sept. 24 (gage height 9.775 m).

Approved: John A. Moulton  
For the United States  
[Signature]  
For Canada

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

05016000

SWIFTCURRENT CREEK AT SHERBURNE, MT

05AE033

DISCHARGE, IN CUBIC METRES PER SECOND, CALENDAR YEAR JANUARY 1985 TO DECEMBER 1985  
MEAN VALUES

| DAY              | JAN | FEB | MAR    | APR    | MAY     | JUN    | JUL     | AUG   | SEP     | OCT    | NOV | DEC |
|------------------|-----|-----|--------|--------|---------|--------|---------|-------|---------|--------|-----|-----|
| 1                |     | a   | .028   | a 9.91 | 15.5    | .040   | 10.4    | 18.7  | 14.8    | .004   |     |     |
| 2                |     |     | .028   | 13.6   | 15.4    | .034   | 9.97    | 19.1  | 10.4    | .003   |     |     |
| 3                |     |     | .028   | 14.0   | 16.1    | .028   | 9.97    | 18.9  | 6.97    | .004   |     |     |
| 4                |     |     | .028   | 15.0   | 15.9    | .025   | 9.94    | 18.7  | 7.76    | .003   |     |     |
| 5                |     |     | .028   | 15.7   | 11.0    | .022   | 9.32    | 18.0  | 7.48    | .003   |     |     |
| 6                |     |     | .028   | 15.5   | 6.17    | .021   | 8.33    | 16.4  | 6.91    | .005   |     |     |
| 7                |     |     | .028   | 15.3   | 4.30    | .027   | 6.20    | 15.8  | 7.25    | .006   |     |     |
| 8                |     |     | .028   | 15.1   | 6.26    | 1.67   | 2.04    | 15.7  | 7.05    | .906   |     |     |
| 9                |     |     | .028   | 15.0   | 10.2    | 2.69   | .007    | 15.5  | 15.1    | .062   |     |     |
| 10               |     |     | .028   | 14.8   | 13.7    | 2.69   | .007    | 15.3  | 22.4    | .057   |     |     |
| 11               |     |     | .028   | 15.2   | 14.8    | 2.69   | .007    | 15.8  | 18.8    | .059   |     |     |
| 12               |     |     | .028   | 16.1   | 12.7    | 1.02   | 4.50    | 17.5  | 15.1    | .059   |     |     |
| 13               |     |     | .651   | 18.3   | 11.4    | .016   | 16.20   | 18.2  | 14.8    | .059   |     |     |
| 14               |     |     | 1.19   | 22.9   | 11.3    | .015   | 24.1    | 18.0  | 15.5    | .051   |     |     |
| 15               |     |     | 1.19   | 24.1   | 13.0    | .013   | 25.2    | 17.8  | 14.4    | .059   |     |     |
| 16               |     |     | 1.73   | 23.9   | 13.0    | .012   | 18.8    | 17.5  | 12.2    | .040   |     |     |
| 17               |     |     | 2.38   | 22.2   | 13.3    | .010   | 12.9    | 17.3  | 13.6    | .028   |     |     |
| 18               |     |     | 2.38   | 21.2   | 14.5    | .010   | 11.8    | 17.1  | 14.4    | .024   |     |     |
| 19               |     |     | 1.64   | 20.2   | 16.2    | .009   | 13.6    | 19.2  | 12.7    | .023   |     |     |
| 20               |     |     | 1.19   | 17.8   | 16.3    | .013   | 16.4    | 21.7  | 10.1    | .021   |     |     |
| 21               |     |     | 1.19   | 16.6   | 13.0    | .012   | 18.7    | 20.6  | 7.48    | .021   |     |     |
| 22               |     |     | 1.19   | 16.3   | 6.74    | .009   | 19.4    | 19.8  | 6.94    | .017   |     |     |
| 23               |     |     | 4.25   | 17.0   | .028    | .008   | 19.3    | 19.4  | 7.11    | .016   |     |     |
| 24               |     |     | 5.95   | 17.3   | .022    | .007   | 20.8    | 19.5  | 5.07    | .016   |     |     |
| 25               |     |     | 8.78   | 16.8   | .680    | 1.56   | 21.5    | 19.5  | 2.63    | .026   |     |     |
| 26               |     |     | 8.78   | 16.3   | .021    | 4.11   | 19.5    | 19.0  | 1.22    | .021   |     |     |
| 27               |     |     | 8.78   | 15.7   | .018    | 6.60   | 18.4    | 18.6  | .007    | .017   |     |     |
| 28               |     |     | 8.78   | 12.6   | .016    | 9.85   | 18.2    | 18.1  | .005    | .017   |     |     |
| 29               |     |     | 8.50   | 16.5   | .015    | 12.2   | 17.3    | 17.6  | .005    | .015   |     |     |
| 30               |     |     | 8.50   | 16.8   | .054    | 11.6   | 16.8    | 16.9  | .004    | a .014 |     |     |
| 31               |     | a   | 8.50   | ---    | .040    | ---    | 17.5    | 16.2  | ---     | a .014 |     |     |
| TOTAL            |     |     | 85.887 | 507.71 | 271.664 | 57.011 | 417.091 | 557.4 | 278.191 | 1.670  |     |     |
| MEAN             |     |     | 2.77   | 16.9   | 8.76    | 1.90   | 13.4    | 18.0  | 9.27    | .054   |     |     |
| MAX              |     |     | 8.78   | 24.1   | 16.3    | 12.2   | 25.2    | 21.7  | 22.4    | .906   |     |     |
| MIN              |     |     | .028   | 9.91   | .015    | .007   | .007    | 15.3  | .004    | .003   |     |     |
| DAM <sup>3</sup> |     |     | 7420   | 43900  | 23500   | 4930   | 36000   | 48200 | 24000   | 144    |     |     |

FOR THE SEASON, MARCH TO OCTOBER:

TOTAL DISCHARGE: 188 100 DAM<sup>3</sup>.

MAX DISCH: 30.9 M<sup>3</sup>/S AT 0900 HRS ON OCT. 8 (G.H. 1.908 M).

MIN DAILY DISCH: 0.003 M<sup>3</sup>/S ON OCT. 2,4,5.

a--NO GAGE-HEIGHT RECORD.

APPROVED:

*Joe G. Mansfield*  
FOR THE UNITED STATES  
*J.H.H.*  
FOR CANADA

(PRELIMINARY) DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB  | MAR     | APR    | MAY   | JUN   | JUL     | AUG   | SEP     | OCT | NOV | DEC | DAY   |
|-------|-----|------|---------|--------|-------|-------|---------|-------|---------|-----|-----|-----|-------|
| 1     |     |      | 0 B     | 8.32   | 12.6  | 19.5  | 16.9    | 18.3  | 16.5    | 0   |     |     | 1     |
| 2     |     |      | 0 B     | 9.12   | 11.9  | 19.4  | 17.1    | 18.4  | 16.3    | 0   |     |     | 2     |
| 3     |     |      | 0 B     | 11.1   | 15.1  | 19.5  | 17.1    | 18.5  | 14.4    | 0   |     |     | 3     |
| 4     |     |      | 0 B     | 12.7   | 17.8  | 19.7  | 17.0    | 18.4  | 10.8    | 0   |     |     | 4     |
| 5     |     |      | 0 B     | 14.1   | 17.9  | 19.9  | 15.4    | 18.4  | 10.7    | 0   |     |     | 5     |
| 6     |     |      | 0 B     | 14.9   | 18.3  | 19.7  | 10.5    | 18.4  | 10.8    | 0   |     |     | 6     |
| 7     |     |      | 0 B     | 15.4   | 19.0  | 19.8  | 5.69    | 18.3  | 10.8    | 0   |     |     | 7     |
| 8     |     |      | 0 B     | 15.8   | 19.5  | 19.8  | 0.705   | 18.3  | 9.72    | 0   |     |     | 8     |
| 9     |     |      | 0 B     | 16.1   | 19.5  | 19.7  | 0.026   | 18.3  | 7.69    | 0   |     |     | 9     |
| 10    |     |      | 0 B     | 16.3   | 19.6  | 19.6  | 2.55    | 18.3  | 8.91    | 0   |     |     | 10    |
| 11    |     |      | 0 B     | 16.5   | 19.6  | 19.6  | 5.44    | 18.3  | 12.1    | 0   |     |     | 11    |
| 12    |     |      | 0 B     | 16.7   | 19.6  | 19.6  | 11.8    | 18.3  | 14.3    | 0   |     |     | 12    |
| 13    |     |      | 0 B     | 16.8   | 19.6  | 19.7  | 16.7    | 18.3  | 12.9    | 0   |     |     | 13    |
| 14    |     |      | 0 B     | 17.1   | 19.6  | 20.0  | 19.0    | 18.3  | 16.1    | 0   |     |     | 14    |
| 15    |     |      | 0 B     | 17.4   | 19.4  | 20.0  | 19.5    | 18.3  | 18.0    | 0   |     |     | 15    |
| 16    |     |      | 0.012 B | 17.7   | 19.5  | 19.9  | 19.2    | 18.1  | 18.2    | 0   |     |     | 16    |
| 17    |     |      | 0.056 B | 17.9   | 19.4  | 19.9  | 18.3    | 18.0  | 18.1    | 0   |     |     | 17    |
| 18    |     |      | 0.630 B | 18.0   | 19.5  | 19.8  | 18.1    | 18.1  | 18.2    | 0   |     |     | 18    |
| 19    |     |      | 1.35 B  | 18.1   | 19.7  | 19.8  | 17.9    | 18.3  | 18.0    | 0   |     |     | 19    |
| 20    |     |      | 1.28 B  | 18.1   | 19.8  | 19.8  | 17.9    | 18.3  | 17.9    | 0   |     |     | 20    |
| 21    |     | 0 B  | 1.27 B  | 17.7   | 19.9  | 19.9  | 17.9    | 18.5  | 17.8    | 0   |     |     | 21    |
| 22    |     | 0 B  | 1.36 B  | 17.6   | 19.2  | 19.8  | 18.0    | 18.4  | 17.7    | 0   |     |     | 22    |
| 23    |     | 0 B  | 1.69 B  | 17.5   | 19.4  | 19.7  | 18.3    | 18.3  | 15.8    | 0   |     |     | 23    |
| 24    |     | 0 B  | 1.91 B  | 17.5   | 19.9  | 19.7  | 18.8    | 18.2  | 10.2    | 0   |     |     | 24    |
| 25    |     | 0 B  | 2.15 B  | 17.4   | 19.9  | 19.6  | 18.8    | 18.2  | 4.64    | 0   |     |     | 25    |
| 26    |     | 0 B  | 5.00    | 17.5   | 18.2  | 19.7  | 18.8    | 18.1  | 0.191   | 0   |     |     | 26    |
| 27    |     | 0 B  | 5.48    | 17.4   | 17.3  | 19.9  | 18.8    | 18.0  | 0       | 0   |     |     | 27    |
| 28    |     | 0 B  | 6.02    | 17.3   | 18.5  | 19.5  | 18.7    | 18.0  | 0       | 0   |     |     | 28    |
| 29    |     |      | 7.35    | 17.3   | 19.6  | 17.9  | 18.4    | 17.9  | 0       | 0   |     |     | 29    |
| 30    |     |      | 7.87    | 16.3   | 19.4  | 16.8  | 18.4    | 17.9  | 0       | 0   |     |     | 30    |
| 31    |     |      | 8.15    |        | 18.7  |       | 18.4    | 17.7  |         | 0   |     |     | 31    |
| TOTAL |     |      | 51.578  | 481.64 | 576.9 | 587.2 | 470.111 | 565.1 | 346.751 | 0   |     |     | TOTAL |
| MEAN  |     |      | 1.66    | 16.1   | 18.6  | 19.6  | 15.2    | 18.2  | 11.6    | 0   |     |     | MEAN  |
| DAM3  |     | 4460 | 41600   | 49800  | 50700 | 40600 | 48800   | 30000 |         | 0   |     |     | DAM3  |
| MAX   |     |      | 8.15    | 18.1   | 19.9  | 20.0  | 19.5    | 18.5  | 18.2    | 0   |     |     | MAX   |
| MIN   |     |      | 0       | 8.32   | 11.9  | 16.8  | 0.026   | 17.7  | 0       | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN DISCHARGE, 12.6 M3/S  
 TOTAL DISCHARGE, 266000 DAM3  
 MAXIMUM DAILY DISCHARGE, 20.0 M3/S ON JUN 14  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

~~MAXIMUM INSTANTANEOUS DISCHARGE,~~

~~M3/S AT~~

~~ON~~

APPROVED:

*[Signature]*  
 For  
*[Signature]*  
 For United States.

B-ICE CONDITIONS



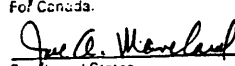
(PRELIMINARY) DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR     | APR    | MAY    | JUN    | JUL   | AUG   | SEP    | OCT    | NOV | DEC | DAY   |
|-------|-----|-----|---------|--------|--------|--------|-------|-------|--------|--------|-----|-----|-------|
| 1     |     |     | 0 B     | 1.94 B | 3.26   | 12.9   | 0.282 | 0     | 0.002  | 1.19   |     |     | 1     |
| 2     |     |     | 0 B     | 3.43   | 3.07   | 6.23   | 0.209 | 0     | 0      | 1.05   |     |     | 2     |
| 3     |     |     | 0 B     | 11.2   | 3.03   | 4.34   | 0.168 | 0     | 0      | 1.08   |     |     | 3     |
| 4     |     |     | 0 B     | 10.5   | 3.25   | 3.66   | 0.144 | 0     | 0      | 1.09   |     |     | 4     |
| 5     |     |     | 0 B     | 5.08   | 3.43   | 3.12   | 0.109 | 0     | 0      | 1.15   |     |     | 5     |
| 6     |     |     | 0 B     | 4.23   | 3.18   | 2.50   | 0.056 | 0     | 0.019  | 1.47   |     |     | 6     |
| 7     |     |     | 0 B     | 3.98   | 2.65   | 1.99   | 0.029 | 0     | 0.112  | 1.38 B |     |     | 7     |
| 8     |     |     | 0 B     | 3.00   | 2.36   | 1.67   | 0.006 | 0     | 0.147  | 1.52 B |     |     | 8     |
| 9     |     |     | 0 B     | 2.81   | 2.20   | 1.60   | 0     | 0     | 0.188  | 1.43 B |     |     | 9     |
| 10    |     |     | 0 B     | 3.70   | 2.08   | 2.70   | 0     | 0     | 0.110  | 2.48 B |     |     | 10    |
| 11    |     |     | 0 B     | 5.30   | 1.94   | 2.18   | 0     | 0     | 0.622  | 1.87   |     |     | 11    |
| 12    |     |     | 0 B     | 6.19   | 1.83   | 1.74   | 0     | 0     | 3.77   | 2.30   |     |     | 12    |
| 13    |     |     | 0 B     | 5.19   | 1.71   | 1.59   | 0     | 0     | 5.92   | 3.28   |     |     | 13    |
| 14    |     |     | 0.001 B | 5.61   | 1.57   | 1.33   | 0     | 0     | 3.02   | 2.88   |     |     | 14    |
| 15    |     |     | 0.100 B | 6.02   | 1.43   | 1.15   | 0     | 0     | 1.99   | 2.54   |     |     | 15    |
| 16    |     |     | 0.500 B | 5.50   | 1.32   | 0.972  | 0     | 0     | 1.25   | 2.71   |     |     | 16    |
| 17    |     |     | 1.00 B  | 3.90   | 1.26   | 0.821  | 0     | 0     | 0.906  | 3.73   |     |     | 17    |
| 18    |     |     | 2.50 B  | 3.25   | 1.22   | 0.709  | 0     | 0     | 0.844  | 3.18   |     |     | 18    |
| 19    |     |     | 3.25 B  | 3.41   | 1.17   | 0.610  | 0     | 0     | 0.792  | 2.53   |     |     | 19    |
| 20    |     |     | 4.90 B  | 3.41   | 1.15   | 0.576  | 0     | 0     | 2.25   | 2.07   |     |     | 20    |
| 21    |     |     | 4.90 B  | 3.03   | 1.09   | 0.657  | 0     | 0     | 2.10   | 1.83   |     |     | 21    |
| 22    |     |     | 3.79 B  | 2.39   | 1.01   | 0.844  | 0     | 0     | 1.58   | 1.70   |     |     | 22    |
| 23    |     |     | 3.23 B  | 2.20   | 0.813  | 1.20   | 0     | 0.019 | 1.45   | 1.57   |     |     | 23    |
| 24    |     |     | 3.24 B  | 1.97   | 0.546  | 1.02   | 0     | 0.005 | 1.64   | 1.51   |     |     | 24    |
| 25    |     |     | 2.17 B  | 1.86   | 0.872  | 0.724  | 0     | 0     | 1.49   | 1.56   |     |     | 25    |
| 26    |     | 0 B | 1.94 B  | 1.88   | 0.993  | 0.505  | 0     | 0.006 | 1.29   | 1.67   |     |     | 26    |
| 27    |     | 0 B | 2.24 B  | 1.84   | 0.954  | 0.396  | 0     | 0.063 | 1.16   | 3.03   |     |     | 27    |
| 28    |     | 0 B | 2.26 B  | 1.84   | 1.48   | 0.314  | 0     | 0.057 | 1.34   | 3.27   |     |     | 28    |
| 29    |     |     | 1.66 B  | 2.08   | 1.68   | 0.286  | 0     | 0.046 | 1.54   | 2.51 A |     |     | 29    |
| 30    |     |     | 1.45 B  | 2.87   | 4.89   | 0.278  | 0     | 0.030 | 1.38   | 2.21 A |     |     | 30    |
| 31    |     |     | 1.68 B  |        | 12.7   |        | 0     | 0.013 |        | 2.08 A |     |     | 31    |
| TOTAL |     |     | 40.811  | 119.61 | 70.138 | 58.612 | 1.003 | 0.239 | 36.912 | 63.87  |     |     | TOTAL |
| MEAN  |     |     | 1.32    | 3.99   | 2.26   | 1.95   | 0.032 | 0.008 | 1.23   | 2.06   |     |     | MEAN  |
| DAM3  |     |     | 3530    | 10300  | 6060   | 5060   | 86.7  | 20.6  | 3190   | 5520   |     |     | DAM3  |
| MAX   |     |     | 4.90    | 11.2   | 12.7   | 12.9   | 0.282 | 0.063 | 5.92   | 3.73   |     |     | MAX   |
| MIN   |     |     | 0       | 1.84   | 0.546  | 0.278  | 0     | 0     | 0      | 1.05   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 1.60 M3/S  
 TOTAL DISCHARGE, 33800 DAM3  
 MAXIMUM DAILY DISCHARGE, 12.9 M3/S ON JUN 1  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

MAXIMUM INSTANTANEOUS DISCHARGE, 18.6 M3/S AT 0130 MST ON June 1

APPROVED:   
 For Canada.

  
 For United States.

A-MANUAL GAUGE  
 B-ICE CONDITIONS

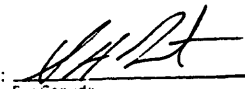
(PRELIMINARY) DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN     | FEB     | MAR     | APR   | MAY   | JUN   | JUL     | AUG   | SEP    | OCT    | NOV     | DEC     | DAY   |
|-------|---------|---------|---------|-------|-------|-------|---------|-------|--------|--------|---------|---------|-------|
| 1     | 0.010 B | 0.014 B | 0.043 B | 14.7  | 20.3  | 31.1  | 16.2    | 16.5  | 17.2   | 2.74   | 1.79 B  | 0.173 B | 1     |
| 2     | 0.020 B | 0.016 B | 0.042 B | 16.5  | 18.2  | 26.5  | 15.5    | 16.5  | 16.8   | 2.43   | 1.70 B  | 0.149 B | 2     |
| 3     | 0.030 B | 0.018 B | 0.042 B | 22.4  | 15.5  | 24.0  | 15.5    | 16.4  | 16.2   | 2.21   | 1.48 B  | 0.103 B | 3     |
| 4     | 0.045 B | 0.019 B | 0.041 B | 25.7  | 15.3  | 22.6  | 15.6    | 16.7  | 15.9   | 1.99   | 1.53 B  | 0.113 B | 4     |
| 5     | 0.040 B | 0.020 B | 0.050 B | 20.2  | 18.6  | 22.3  | 15.6    | 16.7  | 13.9   | 1.93   | 1.44 B  | 0.133 B | 5     |
| 6     | 0.037 B | 0.018 B | 0.090 B | 20.8  | 20.3  | 22.0  | 15.4    | 16.6  | 12.3   | 2.25   | 1.37 B  | 0.177 B | 6     |
| 7     | 0.033 B | 0.016 B | 0.120 B | 20.7  | 20.3  | 21.5  | 13.2    | 16.6  | 11.8   | 2.48 B | 1.10 B  | 0.220 B | 7     |
| 8     | 0.030 B | 0.013 B | 0.170 B | 21.3  | 20.6  | 20.9  | 9.45    | 16.5  | 11.7   | 2.35 B | 1.08 B  | 0.245 B | 8     |
| 9     | 0.020 B | 0.010 B | 0.230 B | 20.1  | 21.0  | 20.9  | 5.65    | 16.7  | 11.4   | 2.26 B | 1.07 B  | 0.217 B | 9     |
| 10    | 0.010 B | 0.014 B | 0.300 B | 19.8  | 21.0  | 20.6  | 3.20    | 16.7  | 10.3   | 2.26 B | 1.08 B  | 0.222 B | 10    |
| 11    | 0.014 B | 0.018 B | 0.450 B | 21.2  | 20.8  | 21.5  | 1.74    | 16.9  | 8.67   | 3.13 B | 1.09 B  | 0.220 B | 11    |
| 12    | 0.018 B | 0.022 B | 0.610 B | 22.6  | 21.2  | 20.7  | 0.961   | 17.4  | 12.9   | 2.89   | 1.10 B  | 0.230 B | 12    |
| 13    | 0.022 B | 0.026 B | 0.800 B | 22.6  | 20.8  | 20.3  | 0.574   | 17.4  | 22.3   | 2.94   | 1.12 B  | 0.240 B | 13    |
| 14    | 0.026 B | 0.030 B | 0.659 B | 22.2  | 20.9  | 19.9  | 9.51    | 17.2  | 18.5   | 3.98   | 1.11 B  | 0.230 B | 14    |
| 15    | 0.030 B | 0.028 B | 1.26 B  | 22.9  | 20.5  | 19.8  | 14.9    | 17.7  | 15.9   | 3.53   | 1.11 B  | 0.240 B | 15    |
| 16    | 0.035 B | 0.026 B | 1.38 B  | 23.6  | 20.4  | 19.7  | 16.9    | 18.2  | 17.9   | 3.11   | 1.10 B  | 0.309 B | 16    |
| 17    | 0.040 B | 0.024 B | 1.96 B  | 22.9  | 20.2  | 19.3  | 17.5    | 17.8  | 18.9   | 3.13   | 1.10 B  | 0.359 B | 17    |
| 18    | 0.030 B | 0.022 B | 3.89 B  | 21.6  | 20.2  | 19.1  | 16.8    | 17.4  | 18.9   | 3.82   | 1.09 B  | 0.360 B | 18    |
| 19    | 0.020 B | 0.020 B | 14.1 B  | 21.8  | 20.1  | 18.9  | 16.2    | 17.3  | 19.4   | 3.47   | 1.09 B  | 0.351 B | 19    |
| 20    | 0.029 B | 0.024 B | 13.8 B  | 22.1  | 20.2  | 18.9  | 16.0    | 17.5  | 19.1   | 2.99   | 1.10 B  | 0.345 B | 20    |
| 21    | 0.038 B | 0.028 B | 14.3 B  | 21.8  | 20.1  | 19.2  | 15.9    | 19.4  | 20.3   | 2.68   | 1.12 B  | 0.329 B | 21    |
| 22    | 0.048 B | 0.032 B | 9.23 B  | 20.5  | 20.2  | 19.4  | 15.8    | 18.4  | 19.9   | 2.38   | 1.10 B  | 0.330 B | 22    |
| 23    | 0.045 B | 0.036 B | 7.37 B  | 19.5  | 19.7  | 19.1  | 16.1    | 18.1  | 19.4   | 2.20   | 1.04 B  | 0.340 B | 23    |
| 24    | 0.042 B | 0.040 B | 6.94 B  | 19.7  | 19.2  | 19.0  | 16.5    | 17.9  | 19.1   | 2.03   | 0.848 B | 0.410 B | 24    |
| 25    | 0.040 B | 0.044 B | 6.49 B  | 19.6  | 20.2  | 18.8  | 16.6    | 17.8  | 16.4   | 1.99   | 0.741 B | 0.488 B | 25    |
| 26    | 0.034 B | 0.044 B | 5.26 B  | 19.7  | 20.8  | 18.4  | 16.5    | 17.7  | 12.1   | 1.93   | 0.619 B | 0.719 B | 26    |
| 27    | 0.028 B | 0.043 B | 5.68 B  | 19.6  | 20.1  | 18.3  | 16.4    | 17.6  | 8.25   | 2.04   | 0.422 B | 0.620 B | 27    |
| 28    | 0.022 B | 0.043 B | 6.39 B  | 19.6  | 18.5  | 18.4  | 16.5    | 17.7  | 5.01   | 2.99   | 0.322 B | 0.820 B | 28    |
| 29    | 0.016 B |         | 8.57 B  | 19.6  | 18.8  | 18.4  | 16.1    | 17.7  | 3.68   | 3.25   | 0.288 B | 1.05 B  | 29    |
| 30    | 0.010 B |         | 8.57 B  | 19.5  | 22.6  | 17.8  | 16.0    | 17.4  | 3.18   | 2.77   | 0.248 B | 1.00 B  | 30    |
| 31    | 0.012 B |         | 10.9 B  |       | 30.3  |       | 16.2    | 17.3  |        | 2.32 B |         | 0.990 B | 31    |
| TOTAL | 0.874   | 0.708   | 129.737 | 624.8 | 626.9 | 617.3 | 414.985 | 537.7 | 437.29 | 82.47  | 31.398  | 11.732  | TOTAL |
| MEAN  | 0.028   | 0.025   | 4.19    | 20.8  | 20.2  | 20.6  | 13.4    | 17.3  | 14.6   | 2.66   | 1.05    | 0.378   | MEAN  |
| DAM3  | 75.5    | 61.2    | 11200   | 54000 | 54200 | 53300 | 35900   | 46500 | 37800  | 7130   | 2710    | 1010    | DAM3  |
| MAX   | 0.048   | 0.044   | 14.3    | 25.7  | 30.3  | 31.1  | 17.5    | 19.4  | 22.3   | 3.98   | 1.79    | 1.05    | MAX   |
| MIN   | 0.010   | 0.010   | 0.041   | 14.7  | 15.3  | 17.8  | 0.574   | 16.4  | 3.18   | 1.93   | 0.248   | 0.103   | MIN   |

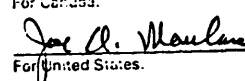
SUMMARY FOR THE MONTHS JAN TO DEC  
 MEAN DISCHARGE, 9.63 M3/S  
 TOTAL DISCHARGE, 304000 DAM3  
 MAXIMUM DAILY DISCHARGE, 31.1 M3/S ON JUN 1  
 MINIMUM DAILY DISCHARGE, 0.010 M3/S ON JAN 1

MAXIMUM INSTANTANEOUS DISCHARGE, 32.3 M3/S AT 1445 MST ON June 1

APPROVED:

  
 For Canada.

B-ICE CONDITIONS

  
 For United States.

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

06135000

MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY

11AA031

DISCHARGE, IN CUBIC METRES PER SECOND, CALENDAR YEAR JANUARY 1985 TO DECEMBER 1985  
MEAN VALUES

| DAY              | JAN | FEB | MAR     | APR    | MAY   | JUN   | JUL    | AUG   | SEP    | OCT    | NOV | DEC |
|------------------|-----|-----|---------|--------|-------|-------|--------|-------|--------|--------|-----|-----|
| 1                |     | a   | .566    | 7.67   | 19.8  | 24.8  | 18.9   | 14.8  | 16.1   | 7.73   |     |     |
| 2                |     |     | .510    | 9.40   | 20.1  | 33.7  | 18.5   | 14.7  | 16.0   | 6.48   |     |     |
| 3                |     |     | .453    | 10.6   | 20.5  | 32.3  | 16.8   | 15.7  | 16.6   | 5.83   |     |     |
| 4                |     |     | .396    | 11.7   | 21.4  | 27.5  | 14.2   | 15.7  | 16.9   | 5.35   |     |     |
| 5                |     |     | .340    | 16.5   | 19.3  | 24.6  | 13.4   | 15.3  | 16.5   | 4.90   |     |     |
| 6                |     |     | .283    | 19.3   | 15.8  | 22.9  | 13.5   | 15.2  | 17.3   | 4.84   |     |     |
| 7                |     |     | .425    | 15.1   | 17.2  | 21.0  | 13.4   | 15.5  | 20.6   | 4.87   |     |     |
| 8                |     |     | .566    | 15.7   | 22.9  | 20.9  | 13.4   | 15.6  | 18.1   | 4.50   |     |     |
| 9                |     |     | .850    | 14.9   | 23.3  | 21.0  | 13.3   | 15.7  | 16.4   | 3.79   |     |     |
| 10               |     |     | 1.27    | 16.3   | 22.4  | 21.4  | 11.0   | 15.3  | 15.2   | 4.45   |     |     |
| 11               |     |     | 1.70    | 17.6   | 23.0  | 20.9  | 8.21   | 15.3  | 14.7   | 4.87   |     |     |
| 12               |     |     | 1.84    | 17.8   | 23.3  | 20.8  | 5.61   | 15.9  | 24.7   | 6.31   |     |     |
| 13               |     |     | 1.98    | 19.7   | 21.4  | 20.7  | 4.16   | 16.6  | 21.4   | 5.13   |     |     |
| 14               |     |     | 2.55    | 21.8   | 19.4  | 19.3  | 3.20   | 16.8  | 15.7   | 4.42   |     |     |
| 15               |     |     | 2.61    | 22.3   | 19.3  | 18.6  | 2.58   | 17.6  | 20.1   | 4.70   |     |     |
| 16               |     |     | 2.66    | 21.0   | 18.2  | 19.0  | 2.12   | 18.2  | 21.4   | 4.28   |     |     |
| 17               |     |     | 2.69    | 20.7   | 19.1  | 19.5  | 1.93   | 17.8  | 16.7   | 4.33   |     |     |
| 18               |     |     | 2.72    | 21.2   | 19.1  | 19.4  | 9.03   | 17.6  | 18.5   | 4.87   |     |     |
| 19               |     |     | 2.75    | 21.1   | 19.4  | 19.2  | 13.2   | 17.3  | 22.0   | 4.36   |     |     |
| 20               |     |     | 2.78    | 20.2   | 20.0  | 19.9  | 14.7   | 16.6  | 20.0   | 4.02   |     |     |
| 21               |     | a   | 2.80    | 19.8   | 21.6  | 19.2  | 14.4   | 16.7  | 19.6   | 4.16   |     |     |
| 22               |     |     | 12.3    | 18.9   | 21.7  | 19.0  | 13.7   | 18.1  | 19.5   | 4.39   |     |     |
| 23               |     |     | 12.4    | 19.3   | 21.3  | 19.7  | 13.7   | 18.9  | 19.5   | 4.05   |     |     |
| 24               |     |     | 11.8    | 19.5   | 21.7  | 19.9  | 13.7   | 18.4  | 19.9   | 3.62   |     |     |
| 25               |     |     | 10.3    | 21.5   | 21.8  | 19.8  | 14.0   | 16.8  | 19.1   | 3.34   |     |     |
| 26               |     |     | 9.57    | 20.6   | 21.9  | 18.7  | 14.6   | 16.6  | 18.6   | 3.17   |     |     |
| 27               |     |     | 8.16    | 19.6   | 20.6  | 18.7  | 14.7   | 17.0  | 16.7   | 2.97   |     |     |
| 28               |     |     | 7.22    | 19.3   | 21.9  | 18.0  | 14.8   | 17.8  | 13.0   | 2.80   |     |     |
| 29               |     |     | 6.03    | 18.2   | 21.4  | 18.4  | 14.7   | 17.7  | 11.8   | 2.75   |     |     |
| 30               |     |     | 5.83    | 18.5   | 32.3  | 18.4  | 14.7   | 17.3  | 9.68   | 2.55   |     |     |
| 31               |     |     | 6.29    | ---    | 23.8  | ---   | 15.0   | 16.6  | ---    | 2.46   |     |     |
| TOTAL            |     |     | 122.639 | 535.77 | 654.9 | 637.2 | 369.14 | 515.1 | 532.28 | 136.29 |     |     |
| MEAN             |     |     | 3.96    | 17.9   | 21.1  | 21.2  | 11.9   | 16.6  | 17.7   | 4.40   |     |     |
| MAX              |     |     | 12.4    | 22.3   | 32.3  | 33.7  | 18.9   | 18.9  | 24.7   | 7.73   |     |     |
| MIN              |     |     | .283    | 7.67   | 15.8  | 18.0  | 1.93   | 14.7  | 9.68   | 2.46   |     |     |
| DAM <sup>3</sup> |     |     | 10600   | 46300  | 56600 | 55100 | 31900  | 44500 | 46000  | 11800  |     |     |

FOR THE SEASON, MARCH TO OCTOBER:

TOTAL DISCHARGE: 302 700 DAM<sup>3</sup>.

MAX DISCH: 52.4 M<sup>3</sup>/S AT 1100 HRS ON MAY 30 (G.H. 2.045 M).

MIN DAILY DISCH: 0.283 M<sup>3</sup>/S ON MARCH 6.

a--NO GAGE-HEIGHT RECORD.

APPROVED:

*Jan. A. MacLeod*  
FOR THE UNITED STATES  
FOR CANADA

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

06132200

SOUTH FORK MILK RIVER NEAR BABB, MT.

11AA033

DISCHARGE, IN CUBIC METRES PER SECOND, CALENDAR YEAR JANUARY 1985 TO DECEMBER 1985  
MEAN VALUES

| DAY              | JAN | FEB | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP    | OCT    | NOV | DEC |
|------------------|-----|-----|--------|--------|--------|--------|-------|-------|--------|--------|-----|-----|
| 1                |     |     | b .028 | b 1.13 | 1.33   | 3.00   | .538  | .144  | .108   | .623   |     |     |
| 2                |     |     | .028   | b 3.96 | 1.33   | 2.24   | .453  | .108  | .099   | .595   |     |     |
| 3                |     |     | .028   | 4.02   | 1.47   | 2.12   | .396  | .122  | .108   | .623   |     |     |
| 4                |     |     | .028   | 2.04   | 1.59   | 1.78   | .368  | .122  | .133   | .793   |     |     |
| 5                |     |     | .028   | 1.81   | 1.39   | 1.53   | .311  | .122  | .195   | .821   |     |     |
| 6                |     |     | .028   | 1.42   | 1.19   | 1.30   | .311  | .116  | .340   | .793   |     |     |
| 7                |     |     | .028   | 1.16   | 1.10   | 1.19   | .278  | .108  | .680   | .906   |     |     |
| 8                |     |     | .028   | 1.16   | 1.05   | 1.73   | .283  | .099  | .680   | .906   |     |     |
| 9                |     |     | .028   | 1.64   | 1.02   | 2.18   | .278  | .133  | .934   | .821   |     |     |
| 10               |     |     | .028   | 2.38   | .963   | 1.59   | .263  | .207  | 1.19   | .708   |     |     |
| 11               |     |     | .028   | 3.11   | .906   | 1.50   | .235  | .368  | .963   | 1.13   |     |     |
| 12               |     |     | .028   | 2.52   | .878   | 1.33   | .221  | .481  | 1.93   | 1.39   |     |     |
| 13               |     |     | .028   | 2.94   | .793   | 1.16   | .195  | .680  | 1.84   | 1.10   |     |     |
| 14               |     |     | .057   | 3.31   | .765   | 1.02   | .207  | .595  | .906   | 1.05   |     |     |
| 15               |     |     | .085   | 2.92   | .765   | .963   | .221  | .453  | .623   | 1.47   |     |     |
| 16               |     |     | .142   | 2.10   | .765   | .906   | .235  | .736  | .453   | 1.59   |     |     |
| 17               |     |     | .283   | 1.81   | .736   | .850   | .235  | .765  | .481   | 1.33   |     |     |
| 18               |     |     | .425   | 1.84   | .708   | .793   | .278  | .453  | 1.61   | 1.08   |     |     |
| 19               |     |     | .566   | 1.67   | .680   | .765   | .311  | .311  | 1.73   | .906   |     |     |
| 20               |     |     | .850   | 1.50   | .651   | .793   | .263  | .311  | 1.10   | .850   |     |     |
| 21               |     |     | .991   | 1.10   | .651   | 1.42   | .221  | .425  | .934   | .765   |     |     |
| 22               |     |     | .906   | .906   | .651   | 1.22   | .181  | .425  | 1.19   | .765   |     |     |
| 23               |     |     | .850   | .821   | .651   | .850   | .122  | .368  | 1.08   | .821   |     |     |
| 24               |     |     | .708   | .765   | .623   | .736   | .195  | .311  | .906   | .906   |     |     |
| 25               |     |     | .566   | .736   | .680   | .680   | .263  | .263  | .765   | 1.44   |     |     |
| 26               |     |     | .425   | .765   | .821   | .680   | .249  | .181  | .708   | 2.55   |     |     |
| 27               |     |     | .368   | .736   | 1.02   | .680   | .207  | .144  | .850   | 1.56   |     |     |
| 28               |     |     | .311   | .934   | .934   | .623   | .156  | .144  | .850   | 1.22   |     |     |
| 29               |     |     | .283   | 1.33   | .934   | .566   | .144  | .170  | .708   | 1.13   |     |     |
| 30               |     |     | .311   | 1.39   | 6.14   | .566   | .156  | .181  | .651   | .991   |     |     |
| 31               |     |     | b .340 | ---    | 6.40   | ---    | .133  | .133  | ---    | .850   |     |     |
| TOTAL            |     |     | 8.831  | 53.923 | 39.585 | 36.761 | 7.907 | 9.179 | 24.745 | 32.483 |     |     |
| MEAN             |     |     | .285   | 1.80   | 1.28   | 1.22   | .255  | .296  | .825   | 1.05   |     |     |
| MAX              |     |     | .991   | 4.02   | 6.40   | 3.00   | .538  | .765  | 1.93   | 2.55   |     |     |
| MIN              |     |     | .028   | .736   | .623   | .566   | .122  | .099  | .099   | .595   |     |     |
| DAM <sup>3</sup> |     |     | 763    | 4660   | 3420   | 3180   | 683   | 793   | 2140   | 2810   |     |     |

FOR THE SEASON, MARCH TO OCTOBER:

TOTAL DISCHARGE: 18 440 DAM<sup>3</sup>.

MAX DISCH: 11.5 M<sup>3</sup>/S AT 2200 HRS ON MAY 30 (G.H. 1.548 M).

MIN DAILY DISCH: 0.028 M<sup>3</sup>/S ON MARCH 1-13.

APPROVED:

*Joe A. Moreland*  
FOR THE UNITED STATES  
*[Signature]*  
FOR CANADA

b--STAGE-DISCHARGE RELATION AFFECTED BY ICE.

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

06133500

NORTH FORK MILK RIVER ABOVE ST MARY CANAL, NEAR BROWNING, MT

11AA032

DISCHARGE, IN CUBIC METRES PER SECOND, CALENDAR YEAR JANUARY 1985 TO DECEMBER 1985  
MEAN VALUES

| DAY              | JAN | FEB | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   | OCT   | NOV | DEC |
|------------------|-----|-----|--------|--------|--------|-------|-------|-------|-------|-------|-----|-----|
| 1                |     |     | b .227 | b .425 | .425   | .481  | .159  | .119  | .150  | .258  |     |     |
| 2                |     |     | .227   | .453   | .425   | .396  | .150  | .110  | .150  | .238  |     |     |
| 3                |     |     | .227   | .481   | .425   | .340  | .133  | .119  | .167  | .278  |     |     |
| 4                |     |     | .227   | .425   | .425   | .311  | .127  | .110  | .184  | .311  |     |     |
| 5                |     |     | .227   | b .396 | .396   | .311  | .119  | .110  | .184  | .269  |     |     |
| 6                |     |     | .227   | .425   | .340   | .269  | .113  | .110  | .278  | .311  |     |     |
| 7                |     |     | .227   | .396   | .340   | .258  | .119  | .110  | .278  | .368  |     |     |
| 8                |     |     | .227   | .396   | .340   | .269  | .119  | .110  | .269  | .311  |     |     |
| 9                |     |     | .227   | .481   | .340   | .269  | .110  | .127  | .311  | .311  |     |     |
| 10               |     |     | .227   | .595   | .340   | .249  | .110  | .133  | .368  | .311  |     |     |
| 11               |     |     | .227   | .651   | .311   | .249  | .093  | .176  | .278  | .425  |     |     |
| 12               |     |     | .227   | .623   | .311   | .229  | .093  | .212  | .736  | .425  |     |     |
| 13               |     |     | .283   | .623   | .311   | .212  | .102  | .269  | .481  | .368  |     |     |
| 14               |     |     | .425   | .623   | .283   | .201  | .119  | .212  | .311  | .311  |     |     |
| 15               |     |     | .566   | .538   | .283   | .201  | .110  | .193  | .249  | .311  |     |     |
| 16               |     |     | .850   | .453   | .283   | .190  | .102  | .368  | .229  | .368  |     |     |
| 17               |     |     | 1.13   | .453   | .283   | .184  | .110  | .238  | .221  | .368  |     |     |
| 18               |     |     | 1.70   | .453   | .278   | .176  | .127  | .184  | .283  | .311  |     |     |
| 19               |     |     | .850   | .453   | .278   | .176  | .122  | .159  | .368  | .311  |     |     |
| 20               |     |     | .425   | .453   | .278   | .201  | .127  | .159  | .311  | .283  |     |     |
| 21               |     |     | .340   | .396   | .283   | .368  | .110  | .193  | .269  | .283  |     |     |
| 22               |     |     | .311   | .340   | .071   | .249  | .102  | .212  | .278  | .283  |     |     |
| 23               |     |     | .283   | .340   | .210   | .195  | .110  | .176  | .283  | .278  |     |     |
| 24               |     |     | .311   | .340   | .258   | .167  | .119  | .150  | .278  | .278  |     |     |
| 25               |     |     | .340   | .368   | .368   | .167  | .119  | .142  | .258  | .278  |     |     |
| 26               |     |     | .368   | .396   | .368   | .193  | .116  | .127  | .258  | .278  |     |     |
| 27               |     |     | .368   | .368   | .368   | .176  | .110  | .133  | .396  | .278  |     |     |
| 28               |     |     | .368   | .396   | .311   | .176  | .110  | .142  | .311  | .269  |     |     |
| 29               |     |     | .368   | .453   | .340   | .167  | .110  | .167  | .278  | .269  |     |     |
| 30               |     |     | .368   | .425   | 1.98   | .159  | .119  | .159  | .269  | .269  |     |     |
| 31               |     |     | b .396 | ---    | .736   | ---   | .119  | .142  | ---   | .269  |     |     |
| TOTAL            |     |     | 12.774 | 13.618 | 11.988 | 7.189 | 3.608 | 5.071 | 8.684 | 9.479 |     |     |
| MEAN             |     |     | .412   | .454   | .387   | .240  | .116  | .164  | .289  | .306  |     |     |
| MAX              |     |     | 1.70   | .651   | 1.98   | .481  | .159  | .368  | .736  | .425  |     |     |
| MIN              |     |     | .227   | .340   | .071   | .159  | .093  | .110  | .150  | .238  |     |     |
| DAM <sup>3</sup> |     |     | 1100   | 1180   | 1040   | 621   | 312   | 438   | 750   | 819   |     |     |

FOR THE SEASON, MARCH TO OCTOBER:

TOTAL DISCHARGE: 6 260 DAM<sup>3</sup>.

MAX DISCH: 3.60 M<sup>3</sup>/S AT 1300 HRS ON MAY 30 (G.H. 0.796 M).

MAX G.H.: 1.908 M ON MARCH 17 (BACKWATER FROM ICE).

MIN DAILY DISCH: 0.071 M<sup>3</sup>/S ON MAY 22.

APPROVED:

*Joe A. Moreland*  
FOR THE UNITED STATES  
*[Signature]*  
FEDERAL GOVERNMENT

b--STAGE-DISCHARGE RELATION AFFECTED BY ICE.

(PRELIMINARY) DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB     | MAR     | APR    | MAY   | JUN   | JUL     | AUG   | SEP     | OCT     | NOV | DEC | DAY   |
|-------|-----|---------|---------|--------|-------|-------|---------|-------|---------|---------|-----|-----|-------|
| 1     |     |         | 0.260 B | 8.00 B | 15.7  | 20.4  | 16.0    | 17.5  | 16.6    | 0.454   |     |     | 1     |
| 2     |     |         | 0.241 B | 10.9 B | 12.5  | 20.6  | 16.1    | 17.5  | 15.7    | 0.328   |     |     | 2     |
| 3     |     |         | 0.231 B | 11.1   | 12.9  | 20.3  | 16.1    | 17.6  | 15.6    | 0.519   |     |     | 3     |
| 4     |     |         | 0.233 B | 12.1   | 16.7  | 20.2  | 16.2    | 17.7  | 12.7    | 0.399   |     |     | 4     |
| 5     |     |         | 0.224 B | 13.8   | 18.2  | 20.3  | 16.1    | 17.4  | 10.4    | 0.350   |     |     | 5     |
| 6     |     |         | 0.215 B | 15.1   | 18.6  | 20.0  | 13.4    | 17.6  | 10.6    | 0.383   |     |     | 6     |
| 7     |     |         | 0.210 B | 15.9   | 19.6  | 20.0  | 8.97    | 17.6  | 10.4    | 0.366 B |     |     | 7     |
| 8     |     |         | 0.205 B | 16.7   | 20.4  | 19.8  | 5.14    | 17.5  | 10.3    | 0.450 B |     |     | 8     |
| 9     |     |         | 0.200 B | 17.1   | 20.8  | 19.1  | 1.94    | 17.6  | 9.05    | 0.505 B |     |     | 9     |
| 10    |     |         | 0.190 B | 17.3   | 20.9  | 19.2  | 0.682   | 17.4  | 7.75    | 0.386 B |     |     | 10    |
| 11    |     |         | 0.170 B | 17.4   | 21.2  | 18.8  | 0.682   | 17.7  | 9.20    | 0.719 B |     |     | 11    |
| 12    |     |         | 0.145 B | 17.2   | 21.0  | 18.9  | 5.30    | 17.9  | 15.5    | 0.897   |     |     | 12    |
| 13    |     |         | 0.200 B | 17.6   | 21.1  | 19.0  | 11.9    | 17.9  | 14.4    | 0.535   |     |     | 13    |
| 14    |     |         | 0.241 B | 17.6   | 20.9  | 19.2  | 16.3    | 17.7  | 12.7    | 0.412   |     |     | 14    |
| 15    |     |         | 1.50 B  | 18.0   | 20.7  | 19.4  | 18.5    | 18.1  | 16.4    | 0.403   |     |     | 15    |
| 16    |     |         | 2.30 B  | 18.5   | 20.7  | 19.1  | 19.0    | 18.2  | 17.9    | 0.485   |     |     | 16    |
| 17    |     |         | 3.12 B  | 18.6   | 20.7  | 19.1  | 18.3    | 17.7  | 17.6    | 0.477   |     |     | 17    |
| 18    |     |         | 3.25 B  | 18.9   | 20.7  | 19.1  | 17.4    | 17.4  | 18.2    | 0.412   |     |     | 18    |
| 19    |     |         | 2.53 B  | 18.9   | 20.7  | 19.2  | 17.2    | 17.5  | 18.1    | 0.359   |     |     | 19    |
| 20    |     |         | 1.21 B  | 19.5   | 20.8  | 19.2  | 17.2    | 17.8  | 18.1    | 0.326   |     |     | 20    |
| 21    |     |         | 0.988 B | 18.8   | 21.1  | 19.7  | 17.2    | 18.0  | 17.7    | 0.314   |     |     | 21    |
| 22    |     |         | 0.884 B | 18.1   | 20.7  | 19.3  | 17.2    | 17.9  | 17.6    | 0.310   |     |     | 22    |
| 23    |     |         | 0.552 B | 18.2   | 20.1  | 19.3  | 17.3    | 17.8  | 17.5    | 0.305   |     |     | 23    |
| 24    |     |         | 1.51 B  | 18.0   | 20.7  | 19.1  | 17.8    | 17.7  | 14.5    | 0.299   |     |     | 24    |
| 25    |     |         | 1.73 B  | 18.1   | 21.5  | 19.0  | 18.1    | 17.6  | 9.33    | 0.288   |     |     | 25    |
| 26    |     |         | 2.00 B  | 18.3   | 20.8  | 19.0  | 18.1    | 17.3  | 5.02    | 0.279   |     |     | 26    |
| 27    |     |         | 4.42 B  | 18.5   | 18.3  | 19.4  | 18.0    | 17.3  | 2.03    | 0.280   |     |     | 27    |
| 28    |     | 0.209 B | 5.42 B  | 18.4   | 18.2  | 19.5  | 17.6    | 17.3  | 0.976   | 0.265   |     |     | 28    |
| 29    |     |         | 6.00 B  | 17.9   | 20.0  | 18.8  | 17.4    | 17.2  | 0.664   | 0.152 A |     |     | 29    |
| 30    |     |         | 6.71 B  | 17.9   | 25.5  | 16.8  | 17.5    | 17.2  | 0.616   | 0.144 E |     |     | 30    |
| 31    |     |         | 5.85 B  |        | 20.9  |       | 17.5    | 17.0  |         | 0.136 A |     |     | 31    |
| TOTAL |     |         | 52.939  | 502.40 | 612.6 | 580.8 | 446.114 | 545.6 | 363.136 | 11.937  |     |     | TOTAL |
| MEAN  |     |         | 1.71    | 16.7   | 19.8  | 19.4  | 14.4    | 17.6  | 12.1    | 0.385   |     |     | MEAN  |
| DAM3  |     |         | 4570    | 43400  | 52900 | 50200 | 38500   | 47100 | 31400   | 1030    |     |     | DAM3  |
| MAX   |     |         | 6.71    | 19.5   | 25.5  | 20.6  | 19.0    | 18.2  | 18.2    | 0.897   |     |     | MAX   |
| MIN   |     |         | 0.145   | 8.00   | 12.5  | 16.8  | 0.682   | 17.0  | 0.616   | 0.136   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 12.7 M3/S  
 TOTAL DISCHARGE, 269000 DAM3  
 MAXIMUM DAILY DISCHARGE, 25.5 M3/S ON MAY 30  
 MINIMUM DAILY DISCHARGE, 0.136 M3/S ON OCT 31

MAXIMUM INSTANTANEOUS DISCHARGE, 27.8 M3/S AT 1230 MST ON May 30

APPROVED:

*[Signature]*  
 For Canada.  
*[Signature]*  
 For United States.

A-MANUAL GAUGE  
 B-ICE CONDITIONS  
 E-ESTIMATED

WATER SURVEY OF CANADA  
 JAN 6 1986  
 REGINA, SASK.

LODGE CREEK BELOW MCRAE CREEK AT INTERNATIONAL BOUNDARY

STATION NO. 11A8083

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR   | APR    | MAY    | JUN   | JUL   | AUG | SEP | OCT     | NOV | DEC | DAY   |
|-------|-----|-----|-------|--------|--------|-------|-------|-----|-----|---------|-----|-----|-------|
| 1     |     |     | 0     | 0.454  | 2.13   | 0.146 | 0.031 | 0   | 0   | 0       |     |     | 1     |
| 2     |     |     | 0     | 0.457  | 2.18   | 0.292 | 0.026 | 0   | 0   | 0       |     |     | 2     |
| 3     |     |     | 0     | 0.547  | 2.17   | 0.596 | 0.016 | 0   | 0   | 0       |     |     | 3     |
| 4     |     |     | 0     | 1.27   | 2.17   | 0.512 | 0.012 | 0   | 0   | 0       |     |     | 4     |
| 5     |     |     | 0     | 1.29   | 2.14   | 0.482 | 0.009 | 0   | 0   | 0       |     |     | 5     |
| 6     |     |     | 0     | 1.29   | 2.15   | 0.461 | 0.005 | 0   | 0   | 0       |     |     | 6     |
| 7     |     |     | 0     | 1.28   | 1.71   | 1.40  | 0.002 | 0   | 0   | 0       |     |     | 7     |
| 8     |     |     | 0     | 1.28   | 2.01   | 1.44  | 0.001 | 0   | 0   | 0       |     |     | 8     |
| 9     |     |     | 0     | 1.27   | 1.62   | 1.34  | 0     | 0   | 0   | 0       |     |     | 9     |
| 10    |     |     | 0     | 1.27   | 1.49   | 0.583 | 0     | 0   | 0   | 0       |     |     | 10    |
| 11    |     |     | 0     | 1.29   | 1.44   | 0.290 | 0     | 0   | 0   | 0       |     |     | 11    |
| 12    |     |     | 0     | 1.29   | 1.46   | 0.191 | 0     | 0   | 0   | 0       |     |     | 12    |
| 13    |     |     | 0     | 1.59   | 1.46   | 0.151 | 0     | 0   | 0   | 0.009   |     |     | 13    |
| 14    |     |     | 0     | 2.14   | 1.38   | 0.122 | 0     | 0   | 0   | 0.013   |     |     | 14    |
| 15    |     |     | 0     | 2.19   | 0.982  | 0.105 | 0     | 0   | 0   | 0.010   |     |     | 15    |
| 16    |     |     | 0     | 2.23   | 0.821  | 0.072 | 0     | 0   | 0   | 0.009   |     |     | 16    |
| 17    |     |     | 0     | 2.29   | 0.853  | 0.046 | 0     | 0   | 0   | 0.009   |     |     | 17    |
| 18    |     |     | 0     | 2.25   | 1.29   | 0.033 | 0.339 | 0   | 0   | 0.007   |     |     | 18    |
| 19    |     |     | 0     | 2.25   | 1.31   | 0.025 | 3.15  | 0   | 0   | 0.006   |     |     | 19    |
| 20    |     |     | 0     | 2.25   | 1.32   | 0.019 | 0.751 | 0   | 0   | 0.005   |     |     | 20    |
| 21    |     |     | 0     | 2.26   | 1.41   | 0.087 | 0.285 | 0   | 0   | 0.005   |     |     | 21    |
| 22    |     |     | 0     | 2.24   | 1.53   | 0.129 | 0.142 | 0   | 0   | 0.003   |     |     | 22    |
| 23    |     |     | 0     | 2.24   | 1.61   | 0.112 | 0.076 | 0   | 0   | 0.003   |     |     | 23    |
| 24    |     |     | 2.23  | 2.25   | 1.67   | 0.087 | 0.049 | 0   | 0   | 0.003   |     |     | 24    |
| 25    |     |     | 2.06  | 2.30   | 1.92   | 0.074 | 0.031 | 0   | 0   | 0.002   |     |     | 25    |
| 26    |     |     | 0.583 | 2.28   | 1.89   | 0.069 | 0.019 | 0   | 0   | 0.001   |     |     | 26    |
| 27    |     |     | 0.464 | 1.50   | 1.85   | 0.056 | 0.011 | 0   | 0   | 0.001   |     |     | 27    |
| 28    |     |     | 0.475 | 0.675  | 1.54   | 0.048 | 0.005 | 0   | 0   | 0.001   |     |     | 28    |
| 29    |     |     | 0.461 | 0.604  | 0.543  | 0.041 | 0.003 | 0   | 0   | 0.001   |     |     | 29    |
| 30    |     |     | 0.457 | 0.799  | 0.369  | 0.037 | 0.001 | 0   | 0   | 0.001 E |     |     | 30    |
| 31    |     |     | 0.464 |        | 0.244  |       | 0.001 | 0   |     | 0.001 E |     |     | 31    |
| TOTAL |     |     | 7.194 | 47.326 | 46.652 | 9.046 | 4.965 | 0   | 0   | 0.090   |     |     | TOTAL |
| MEAN  |     |     | 0.232 | 1.58   | 1.51   | 0.302 | 0.160 | 0   | 0   | 0.003   |     |     | MEAN  |
| DAM3  |     |     | 622   | 4090   | 4030   | 782   | 429   | 0   | 0   | 7.78    |     |     | DAM3  |
| MAX   |     |     | 2.23  | 2.30   | 2.18   | 1.44  | 3.15  | 0   | 0   | 0.013   |     |     | MAX   |
| MIN   |     |     | 0     | 0.454  | 0.244  | 0.019 | 0     | 0   | 0   | 0       |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN DISCHARGE, 0.471 M3/S

TOTAL DISCHARGE, 9960 DAM3

MAXIMUM DAILY DISCHARGE, 3.15 M3/S ON JUL 19

MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

MAXIMUM INSTANTANEOUS DISCHARGE 4.64 M3/S AT 01:00 C.S.T. JULY 19.

E-ESTIMATED

APPROVED BY:

*Joe A. Macleod*  
*B. J. ...*

FOR THE UNITED STATES

FOR CANADA

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

MICHEL RESERVOIR NEAR ELKVATER

11AB091

| PERIOD | MEAN ELEVATION (M) | EVAPORATION |                  | ELEVATION AT            |                   | STORAGE AT                 |                      | CHANGE IN STORAGE (DAN3) |
|--------|--------------------|-------------|------------------|-------------------------|-------------------|----------------------------|----------------------|--------------------------|
|        |                    | PAN (CM)    | RESERVOIR (DAN3) | BEGINNING OF PERIOD (M) | END OF PERIOD (M) | BEGINNING OF PERIOD (DAN3) | END OF PERIOD (DAN3) |                          |
| 1      | 301.564            | 0.0         | 0                | 301.562                 | 301.565           | 366                        | 366                  | 0                        |
| 2      | 301.658            | 0.0         | 0                | 301.565                 | 301.750           | 366                        | 394                  | 28                       |
| 3      | 302.274            | 0.0         | 0                | 301.750                 | 302.797           | 394                        | 567                  | 173                      |
| 4      | 303.111            | -0.4        | -1               | 302.797                 | 303.425           | 567                        | 688                  | 121                      |
| 5      | 304.104            | 4.5         | 7                | 303.425                 | 304.782           | 688                        | 985                  | 297                      |
| 6      | 304.786            | 3.2         | 6                | 304.782                 | 304.790           | 985                        | 987                  | 2                        |
| 7      | 304.785            | 4.5         | 8                | 304.790                 | 304.780           | 987                        | 985                  | -2                       |
| 8      | 304.795            | 5.1         | 9                | 304.780                 | 304.810           | 985                        | 992                  | 7                        |
| 9      | 304.780            | 7.4         | 13               | 304.810                 | 304.750           | 992                        | 978                  | -14                      |
| 10     | 304.746            | 2.3         | 4                | 304.750                 | 304.742           | 978                        | 976                  | -2                       |
| 11     | 304.706            | 6.9         | 12               | 304.742                 | 304.670           | 976                        | 960                  | -16                      |
| 12     | 304.630            | 7.6         | 13               | 304.670                 | 304.590           | 960                        | 942                  | -18                      |
| 13     | 304.562            | 9.0         | 15               | 304.590                 | 304.535           | 942                        | 930                  | -12                      |
| 14     | 304.502            | 10.1        | 17               | 304.535                 | 304.470           | 930                        | 915                  | -15                      |
| 15     | 304.404            | 7.6         | 12               | 304.470                 | 304.338           | 915                        | 886                  | -29                      |
| 16     | 304.304            | 3.9         | 6                | 304.338                 | 304.270           | 886                        | 870                  | -16                      |
| 17     | 304.245            | 0.0         | 0                | 304.270                 | 304.220           | 870                        | 859                  | -11                      |
| 18     | 304.210            | -0.5        | -1               | 304.220                 | 304.200           | 859                        | 854                  | -5                       |
| 19     | 304.188            | 3.2         | 5                | 304.200                 | 304.175           | 854                        | 848                  | -6                       |
| 20     | 304.194            | -9.1        | -14              | 304.175                 | 304.214           | 848                        | 857                  | 9                        |
| 21     | 304.238            | -0.4        | -1               | 304.214                 | 304.262           | 857                        | 869                  | 12                       |
| 22     | 304.266            | 0.1         | 0                | 304.262                 | 304.270           | 869                        | 870                  | 1                        |
| 23     | 304.270            | 0.7         | 1                | 304.270                 | 304.270           | 870                        | 870                  | 0                        |
| 24     | 304.262            | 2.1         | 3                | 304.270                 | 304.255           | 870                        | 867                  | -3                       |

EVAPORATION STATION IS ALTAVAN



STORAGE FACTORS AND EVAPORATION LOSSES  
1985

GREASEWOOD RESERVOIR NEAR ELKWATER

11A8092

| ] PERIOD ] | ] MEAN ]<br>] ELEVATION ]<br>] (M) ] | ] EVAPORATION ]     |                             | ] ELEVATION AT ]                          |                                     | ] STORAGE AT ]                               |  | ] CHANGE IN ]<br>] STORAGE ]<br>] (DAM3) ] |
|------------|--------------------------------------|---------------------|-----------------------------|---|-------------------------------------|--|--|--|
|            |                                      | ] PAN ]<br>] (CM) ] | ] RESERVOIR ]<br>] (DAM3) ] | ] BEGINNING ]<br>] OF PERIOD ]<br>] (M) ] | ] END ]<br>] OF PERIOD ]<br>] (M) ] | ] BEGINNING ]<br>] OF PERIOD ]<br>] (DAM3) ] | ] END ]<br>] OF PERIOD ]<br>] (DAM3) ] |  |
| 1          | 27.046                               | 0.0                 | 0                           | 27.046                                    | 27.046                              | 19   | 19                                     | 0  |
| 2          | 27.560                               | 0.0                 | 0                           | 27.046                                    | 28.075                              | 19   | 41                                     | 22   |
| 3          | 28.966                               | 0.0                 | 0                           | 28.075                                    | 29.856                              | 41   | 111                                    | 70   |
| 4          | 29.860                               | -0.4                | 0                           | 29.856                                    | 29.865                              | 111  | 112                                    | 1  |
| 5          | 29.929                               | 4.5                 | 2                           | 29.865                                    | 29.993                              | 112  | 123                                    | 11   |
| 6          | 29.962                               | 3.2                 | 1                           | 29.993                                    | 29.930                              | 123  | 117                                    | -6   |
| 7          | 29.915                               | 4.5                 | 2                           | 29.930                                    | 29.900                              | 117  | 114                                    | -3   |
| 8          | 29.839                               | 5.1                 | 2                           | 29.900                                    | 29.778                              | 114  | 107                                    | -7   |
| 9          | 29.796                               | 7.4                 | 3                           | 29.778                                    | 29.815                              | 107  | 109                                    | 2  |
| 10         | 29.838                               | 2.3                 | 1                           | 29.815                                    | 29.860                              | 109  | 112                                    | 3  |
| 11         | 29.830                               | 6.9                 | 3                           | 29.860                                    | 29.800                              | 112  | 108                                    | -4   |
| 12         | 29.765                               | 7.6                 | 3                           | 29.800                                    | 29.730                              | 108  | 104                                    | -4   |
| 13         | 29.690                               | 9.0                 | 3                           | 29.730                                    | 29.650                              | 104  | 100                                    | -4   |
| 14         | 28.550                               | 10.1                | 2                           | 29.650                                    | 27.450                              | 100  | 26                                     | -74  |
| 15         | 26.262                               | 7.6                 | 1                           | 27.450                                    | 25.075                              | 26   | 1                                      | -25  |
| 16         | 24.962                               | 3.9                 | 0                           | 25.075                                    | 24.850                              | 1  | 1                                      | 0  |
| 17         | 24.982                               | 0.0                 | 0                           | 24.850                                    | 25.115                              | 1  | 2                                      | 1  |
| 18         | 25.215                               | -0.5                | 0                           | 25.115                                    | 25.315                              | 2  | 3                                      | 1  |
| 19         | 25.408                               | 3.2                 | 0                           | 25.315                                    | 25.500                              | 3  | 3                                      | 0  |
| 20         | 25.880                               | -9.1                | 0                           | 25.500                                    | 26.260                              | 3  | 9                                      | 6  |
| 21         | 26.540                               | -0.4                | 0                           | 26.260                                    | 26.820                              | 9  | 16                                     | 7  |
| 22         | 26.880                               | 0.1                 | 0                           | 26.820                                    | 26.940                              | 16   | 18                                     | 2  |
| 23         | 27.025                               | 0.7                 | 0                           | 26.940                                    | 27.110                              | 18   | 20                                     | 2  |
| 24         | 27.162                               | 2.1                 | 0                           | 27.110                                    | 27.214                              | 20   | 22                                     | 2  |

EVAPORATION STATION IS ALTAVAN

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

MASSY RESERVOIR NEAR ELKVATER

11AB104

| ] PERIOD ] | ] MEAN ]<br>] ELEVATION ]<br>(M) | ] EVAPORATION ] |                         | ] ELEVATION AT ]                      |                                 | ] STORAGE AT ]                           |                                    | ] CHANGE IN ]<br>] STORAGE ]<br>(DAM3) |
|------------|----------------------------------|-----------------|-------------------------|---------------------------------------|---------------------------------|--|------------------------------------|--|
|            |                                  | ] PAN ]<br>(CM) | ] RESERVOIR ]<br>(DAM3) | ] BEGINNING ]<br>] OF PERIOD ]<br>(M) | ] END ]<br>] OF PERIOD ]<br>(M) | ] BEGINNING ]<br>] OF PERIOD ]<br>(DAM3) | ] END ]<br>] OF PERIOD ]<br>(DAM3) |  |
| 1          | 25.571                           | 0.0             | 0                       | 25.572                                | 25.570                          | 9  | 9                                  | 0                                      |
| 2          | 26.185                           | 0.0             | 0                       | 25.570                                | 26.800                          | 9  | 51                                 | 42                                     |
| 3          | 27.727                           | 0.0             | 0                       | 26.800                                | 28.654                          | 51                                       | 198                                | 147                                    |
| 4          | 28.677                           | -0.4            | 0                       | 28.654                                | 28.700                          | 198                                      | 202                                | 4                                      |
| 5          | 28.801                           | 4.5             | 4                       | 28.700                                | 28.902                          | 202                                      | 223                                | 21                                     |
| 6          | 28.903                           | 3.2             | 3                       | 28.902                                | 28.904                          | 223                                      | 223                                | 0                                      |
| 7          | 28.887                           | 4.5             | 4                       | 28.904                                | 28.870                          | 223                                      | 220                                | -3                                     |
| 8          | 28.931                           | 5.1             | 5                       | 28.870                                | 28.992                          | 220                                      | 233                                | 13                                     |
| 9          | 28.908                           | 7.4             | 7                       | 28.992                                | 28.825                          | 233                                      | 215                                | -18                                    |
| 10         | 28.832                           | 2.3             | 2                       | 28.825                                | 28.840                          | 215                                      | 217                                | 2                                      |
| 11         | 28.805                           | 6.9             | 6                       | 28.840                                | 28.770                          | 217                                      | 210                                | -7                                     |
| 12         | 28.585                           | 7.6             | 5                       | 28.770                                | 28.400                          | 210                                      | 173                                | -37                                    |
| 13         | 28.145                           | 9.0             | 5                       | 28.400                                | 27.890                          | 173                                      | 128                                | -45                                    |
| 14         | 27.545                           | 10.1            | 6                       | 27.890                                | 27.200                          | 128                                      | 75                                 | -53                                    |
| 15         | 27.162                           | 7.6             | 4                       | 27.200                                | 27.125                          | 75                                       | 70                                 | -5                                     |
| 16         | 26.912                           | 3.9             | 2                       | 27.125                                | 26.700                          | 70                                       | 45                                 | -25                                    |
| 17         | 26.390                           | 0.0             | 0                       | 26.700                                | 26.080                          | 45                                       | 19                                 | -26                                    |
| 18         | 26.005                           | -0.5            | 0                       | 26.080                                | 25.930                          | 19                                       | 15                                 | -4                                     |
| 19         | 25.940                           | 3.2             | 1                       | 25.930                                | 25.950                          | 15                                       | 16                                 | 1                                      |
| 20         | 26.325                           | -9.1            | -3                      | 25.950                                | 26.700                          | 16                                       | 45                                 | 29                                     |
| 21         | 27.045                           | -0.4            | 0                       | 26.700                                | 27.390                          | 45                                       | 89                                 | 44                                     |
| 22         | 27.395                           | 0.1             | 0                       | 27.390                                | 27.400                          | 89                                       | 90                                 | 1                                      |
| 23         | 27.408                           | 0.7             | 0                       | 27.400                                | 27.415                          | 90                                       | 91                                 | 1                                      |
| 24         | 27.404                           | 2.1             | 1                       | 27.415                                | 27.392                          | 91                                       | 89                                 | -2                                     |

EVAPORATION STATION IS ALTAVAN

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

BARE CREEK RESERVOIR NEAR ELKWATER

11AB094

| ] PERIOD ] | ] EVAPORATION ]                      |                     |                             | ] ELEVATION AT ]                          |                                     | ] STORAGE AT ]                               |  | ] CHANGE IN ]<br>] STORAGE ]<br>] (DAM3) ] |
|------------|--------------------------------------|---------------------|-----------------------------|---|-------------------------------------|--|--|--|
|            | ] MEAN ]<br>] ELEVATION ]<br>] (M) ] | ] PAN ]<br>] (CM) ] | ] RESERVOIR ]<br>] (DAM3) ] | ] BEGINNING ]<br>] OF PERIOD ]<br>] (M) ] | ] END ]<br>] OF PERIOD ]<br>] (M) ] | ] BEGINNING ]<br>] OF PERIOD ]<br>] (DAM3) ] | ] END ]<br>] OF PERIOD ]<br>] (DAM3) ] |  |
| 1          | 1133.392                             | 0.0                 | 0                           | 1133.394                                  | 1133.390                            | 616  | 615                                    | -1   |
| 2          | 1133.465                             | 0.0                 | 0                           | 1133.390                                  | 1133.540                            | 615  | 649                                    | 34   |
| 3          | 1134.097                             | 0.0                 | 0                           | 1133.540                                  | 1134.654                            | 649  | 951                                    | 302  |
| 4          | 1135.252                             | -0.4                | -1                          | 1134.654                                  | 1135.850                            | 951  | 1363                                   | 412  |
| 5          | 1136.494                             | 4.5                 | 12                          | 1135.850                                  | 1137.138                            | 1363   | 1930                                   | 567  |
| 6          | 1137.174                             | 3.2                 | 11                          | 1137.138                                  | 1137.210                            | 1930   | 1966                                   | 36   |
| 7          | 1137.192                             | 4.5                 | 15                          | 1137.210                                  | 1137.175                            | 1966   | 1948                                   | -18  |
| 8          | 1137.266                             | 5.1                 | 17                          | 1137.175                                  | 1137.357                            | 1948   | 2043                                   | 95   |
| 9          | 1137.251                             | 7.4                 | 25                          | 1137.357                                  | 1137.145                            | 2043   | 1933                                   | -110                                       |
| 10         | 1137.128                             | 2.3                 | 8                           | 1137.145                                  | 1137.112                            | 1933   | 1917                                   | -16  |
| 11         | 1137.078                             | 6.9                 | 22                          | 1137.112                                  | 1137.045                            | 1917   | 1884                                   | -33  |
| 12         | 1137.002                             | 7.6                 | 24                          | 1137.045                                  | 1136.960                            | 1884   | 1842                                   | -42  |
| 13         | 1136.905                             | 9.0                 | 28                          | 1136.960                                  | 1136.850                            | 1842   | 1790                                   | -52  |
| 14         | 1136.698                             | 10.1                | 29                          | 1136.850                                  | 1136.545                            | 1790   | 1650                                   | -140                                       |
| 15         | 1136.528                             | 7.6                 | 21                          | 1136.545                                  | 1136.510                            | 1650   | 1635                                   | -15  |
| 16         | 1136.268                             | 3.9                 | 10                          | 1136.510                                  | 1136.025                            | 1635   | 1431                                   | -204                                       |
| 17         | 1135.918                             | 0.0                 | 0                           | 1136.025                                  | 1135.810                            | 1431   | 1348                                   | -83  |
| 18         | 1135.750                             | -0.5                | -1                          | 1135.810                                  | 1135.690                            | 1348   | 1301                                   | -47  |
| 19         | 1135.672                             | 3.2                 | 7                           | 1135.690                                  | 1135.655                            | 1301   | 1288                                   | -13  |
| 20         | 1135.699                             | -9.1                | -20                         | 1135.655                                  | 1135.743                            | 1288   | 1322                                   | 34   |
| 21         | 1135.769                             | -0.4                | -1                          | 1135.743                                  | 1135.795                            | 1322   | 1342                                   | 20   |
| 22         | 1135.780                             | 0.1                 | 0                           | 1135.795                                  | 1135.765                            | 1342   | 1330                                   | -12  |
| 23         | 1135.760                             | 0.7                 | 2                           | 1135.765                                  | 1135.775                            | 1330   | 1334                                   | 4  |
| 24         | 1135.738                             | 2.1                 | 5                           | 1135.775                                  | 1135.720                            | 1334   | 1313                                   | -21  |

EVAPORATION STATION IS ALTAVAN

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

CRESSDAY RESERVOIR NEAR CRESSDAY

11AB097

| ] PERIOD ] | ] MEAN ]<br>] ELEVATION ]<br>] (M) ] | ] EVAPORATION ]     |                             | ] ELEVATION AT ]                          |                                     | ] STORAGE AT ]                               |  | ] CHANGE IN ]<br>] STORAGE ]<br>] (DAM3) ] |
|------------|--------------------------------------|---------------------|-----------------------------|---|-------------------------------------|--|--|--|
|            |                                      | ] PAN ]<br>] (CM) ] | ] RESERVOIR ]<br>] (DAM3) ] | ] BEGINNING ]<br>] OF PERIOD ]<br>] (M) ] | ] END ]<br>] OF PERIOD ]<br>] (M) ] | ] BEGINNING ]<br>] OF PERIOD ]<br>] (DAM3) ] | ] END ]<br>] OF PERIOD ]<br>] (DAM3) ] |  |
| 1          | 962.168                              | 0.0                 | 0                           | 962.171                                   | 962.165                             | 125  | 125                                    | 0  |
| 2          | 962.608                              | 0.0                 | 0                           | 962.165                                   | 963.050                             | 125  | 299                                    | 174  |
| 3          | 963.328                              | 0.0                 | 0                           | 963.050                                   | 963.607                             | 299  | 500                                    | 201  |
| 4          | 963.691                              | -0.1                | 0                           | 963.607                                   | 963.775                             | 500  | 584                                    | 84   |
| 5          | 963.798                              | 4.8                 | 18                          | 963.775                                   | 963.822                             | 584  | 612                                    | 28   |
| 6          | 963.806                              | 2.9                 | 11                          | 963.822                                   | 963.790                             | 612  | 593                                    | -19  |
| 7          | 963.775                              | 4.9                 | 18                          | 963.790                                   | 963.760                             | 593  | 575                                    | -18  |
| 8          | 963.750                              | 5.1                 | 19                          | 963.760                                   | 963.740                             | 575  | 564                                    | -11  |
| 9          | 963.710                              | 7.2                 | 25                          | 963.740                                   | 963.680                             | 564  | 535                                    | -29  |
| 10         | 963.675                              | 2.6                 | 9                           | 963.680                                   | 963.670                             | 535  | 531                                    | -4   |
| 11         | 963.625                              | 6.8                 | 22                          | 963.670                                   | 963.580                             | 531  | 487                                    | -44  |
| 12         | 963.565                              | 7.7                 | 24                          | 963.580                                   | 963.550                             | 487  | 474                                    | -13  |
| 13         | 963.488                              | 9.1                 | 26                          | 963.550                                   | 963.425                             | 474  | 424                                    | -50  |
| 14         | 963.385                              | 10.1                | 26                          | 963.425                                   | 963.345                             | 424  | 389                                    | -35  |
| 15         | 963.298                              | 7.5                 | 18                          | 963.345                                   | 963.250                             | 389  | 352                                    | -37  |
| 16         | 963.234                              | 2.4                 | 6                           | 963.250                                   | 963.219                             | 352  | 345                                    | -7   |
| 17         | 963.202                              | 1.1                 | 2                           | 963.219                                   | 963.185                             | 345  | 337                                    | -8   |
| 18         | 963.168                              | -0.6                | -1                          | 963.185                                   | 963.152                             | 337  | 329                                    | -8   |
| 19         | 963.146                              | 0.5                 | 1                           | 963.152                                   | 963.140                             | 329  | 326                                    | -3   |
| 20         | 963.282                              | -6.5                | -16                         | 963.140                                   | 963.425                             | 326  | 424                                    | 98   |
| 21         | 963.418                              | -0.5                | -1                          | 963.425                                   | 963.410                             | 424  | 418                                    | -6   |
| 22         | 963.409                              | 0.0                 | 0                           | 963.410                                   | 963.408                             | 418  | 417                                    | -1   |
| 23         | 963.413                              | 0.8                 | 2                           | 963.408                                   | 963.418                             | 417  | 421                                    | 4  |
| 24         | 963.402                              | 2.0                 | 5                           | 963.418                                   | 963.385                             | 421  | 408                                    | -13  |

EVAPORATION STATION IS ALTAWAN

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

MITCHELL RESERVOIR NEAR ELKVATER

11AB099

| ] PERIOD ] | ] ELEVATION ]<br>(M) | ] EVAPORATION ]<br>(CM) | ] RESERVOIR ]<br>(DAM3) | ] ELEVATION AT ]     |                | ] STORAGE AT ]          |                   | ] CHANGE IN ]<br>STORAGE ]<br>(DAM3) |
|------------|----------------------|-------------------------|-------------------------|----------------------|----------------|-------------------------|-------------------|--------------------------------------|
|            |                      |                         |                         | ] BEGINNING ]<br>(M) | ] END ]<br>(M) | ] BEGINNING ]<br>(DAM3) | ] END ]<br>(DAM3) |                                      |
| 1          | 32.351               | 0.0                     | 0                       | 32.362               | 32.340         | 89                      | 86                | -3                                   |
| 2          | 32.220               | 0.0                     | 0                       | 32.340               | 32.100         | 86                      | 65                | -21                                  |
| 3          | 32.106               | 0.0                     | 0                       | 32.100               | 32.113         | 65                      | 66                | 1                                    |
| 4          | 32.656               | -0.1                    | 0                       | 32.113               | 33.200         | 66                      | 224               | 158                                  |
| 5          | 34.098               | 4.8                     | 13                      | 33.200               | 34.996         | 224                     | 975               | 751                                  |
| 6          | 34.956               | 2.9                     | 13                      | 34.996               | 34.915         | 975                     | 924               | -51                                  |
| 7          | 34.995               | 4.9                     | 23                      | 34.915               | 35.075         | 924                     | 1027              | 103                                  |
| 8          | 34.938               | 5.1                     | 23                      | 35.075               | 34.800         | 1027                    | 851               | -176                                 |
| 9          | 34.925               | 7.2                     | 33                      | 34.800               | 35.050         | 851                     | 1009              | 158                                  |
| 10         | 35.040               | 2.6                     | 12                      | 35.050               | 35.030         | 1009                    | 996               | -13                                  |
| 11         | 35.000               | 6.8                     | 32                      | 35.030               | 34.969         | 996                     | 958               | -38                                  |
| 12         | 34.810               | 7.7                     | 33                      | 34.969               | 34.650         | 958                     | 764               | -194                                 |
| 13         | 34.475               | 9.1                     | 32                      | 34.650               | 34.300         | 764                     | 591               | -173                                 |
| 14         | 34.220               | 10.1                    | 30                      | 34.300               | 34.141         | 591                     | 520               | -71                                  |
| 15         | 34.048               | 7.5                     | 20                      | 34.141               | 33.955         | 520                     | 451               | -69                                  |
| 16         | 33.678               | 2.4                     | 5                       | 33.955               | 33.401         | 451                     | 275               | -176                                 |
| 17         | 33.378               | 1.1                     | 2                       | 33.401               | 33.355         | 275                     | 264               | -11                                  |
| 18         | 33.338               | -0.6                    | -1                      | 33.355               | 33.321         | 264                     | 255               | -9                                   |
| 19         | 33.310               | 0.5                     | 1                       | 33.321               | 33.300         | 255                     | 249               | -6                                   |
| 20         | 33.320               | -6.5                    | -12                     | 33.300               | 33.339         | 249                     | 259               | 10                                   |
| 21         | 33.340               | -0.5                    | -1                      | 33.339               | 33.340         | 259                     | 260               | 1                                    |
| 22         | 33.340               | 0.0                     | 0                       | 33.340               | 33.339         | 260                     | 259               | -1                                   |
| 23         | 33.328               | 0.8                     | 1                       | 33.339               | 33.316         | 259                     | 253               | -6                                   |
| 24         | 33.288               | 2.0                     | 3                       | 33.316               | 33.260         | 253                     | 239               | -14                                  |

EVAPORATION STATION IS ALTAVAN

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

JAYDOT RESERVOIR NEAR JAYDOT

11AB098

| ] PERIOD ] | ] MEAN ]<br>] ELEVATION ]<br>] (M) ] | ] EVAPORATION ]     |                             |                          | ] ELEVATION AT ]                    |  | ] STORAGE AT ]                         |     | ] CHANGE IN ]<br>] STORAGE ]<br>] (DAM3) ] |
|------------|--------------------------------------|---------------------|-----------------------------|--------------------------|-------------------------------------|--|--|-----|--|
|            |                                      | ] PAN ]<br>] (CM) ] | ] RESERVOIR ]<br>] (DAM3) ] | ] OF PERIOD ]<br>] (M) ] | ] END ]<br>] OF PERIOD ]<br>] (M) ] | ] BEGINNING ]<br>] OF PERIOD ]<br>] (DAM3) ] | ] END ]<br>] OF PERIOD ]<br>] (DAM3) ] |     |  |
| 1          | 919.462                              | 0.0                 | 0                           | 919.463                  | 919.460                             | 127  | 127                                    | 0   |  |
| 2          | 919.710                              | 0.0                 | 0                           | 919.460                  | 919.960                             | 127  | 190                                    | 63  |  |
| 3          | 920.070                              | 0.0                 | 0                           | 919.960                  | 920.180                             | 190  | 225                                    | 35  |  |
| 4          | 920.212                              | -0.1                | 0                           | 920.180                  | 920.245                             | 225  | 237                                    | 12  |  |
| 5          | 920.245                              | 4.8                 | 6                           | 920.245                  | 920.245                             | 237  | 237                                    | 0   |  |
| 6          | 920.218                              | 2.9                 | 4                           | 920.245                  | 920.190                             | 237  | 227                                    | -10 |  |
| 7          | 920.165                              | 4.9                 | 6                           | 920.190                  | 920.140                             | 227  | 219                                    | -8  |  |
| 8          | 920.115                              | 5.1                 | 6                           | 920.140                  | 920.090                             | 219  | 210                                    | -9  |  |
| 9          | 920.064                              | 7.2                 | 8                           | 920.090                  | 920.039                             | 210  | 202                                    | -8  |  |
| 10         | 920.034                              | 2.6                 | 3                           | 920.039                  | 920.030                             | 202  | 201                                    | -1  |  |
| 11         | 919.993                              | 6.8                 | 7                           | 920.030                  | 919.956                             | 201  | 189                                    | -12 |  |
| 12         | 919.916                              | 7.7                 | 8                           | 919.956                  | 919.875                             | 189  | 178                                    | -11 |  |
| 13         | 919.828                              | 9.1                 | 9                           | 919.875                  | 919.781                             | 178  | 166                                    | -12 |  |
| 14         | 919.740                              | 10.1                | 9                           | 919.781                  | 919.700                             | 166  | 155                                    | -11 |  |
| 15         | 919.652                              | 7.5                 | 6                           | 919.700                  | 919.605                             | 155  | 143                                    | -12 |  |
| 16         | 919.585                              | 2.4                 | 2                           | 919.605                  | 919.565                             | 143  | 139                                    | -4  |  |
| 17         | 919.548                              | 1.1                 | 1                           | 919.565                  | 919.530                             | 139  | 135                                    | -4  |  |
| 18         | 919.524                              | -0.6                | 0                           | 919.530                  | 919.518                             | 135  | 134                                    | -1  |  |
| 19         | 919.584                              | 0.5                 | 0                           | 919.518                  | 919.650                             | 134  | 149                                    | 15  |  |
| 20         | 919.850                              | -6.5                | -6                          | 919.650                  | 920.051                             | 149  | 204                                    | 55  |  |
| 21         | 920.050                              | -0.5                | -1                          | 920.051                  | 920.048                             | 204  | 204                                    | 0   |  |
| 22         | 920.044                              | 0.0                 | 0                           | 920.048                  | 920.041                             | 204  | 202                                    | -2  |  |
| 23         | 920.051                              | 0.8                 | 1                           | 920.041                  | 920.061                             | 202  | 206                                    | 4   |  |
| 24         | 920.048                              | 2.0                 | 2                           | 920.061                  | 920.036                             | 206  | 202                                    | -4  |  |

EVAPORATION STATION IS ALTAWAN

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR     | APR    | MAY    | JUN   | JUL   | AUG   | SEP   | OCT     | NOV | DEC | DAY   |
|-------|-----|-----|---------|--------|--------|-------|-------|-------|-------|---------|-----|-----|-------|
| 1     |     |     | 0 B     | 0.099  | 1.09   | 0.023 | 0.018 | 0.010 | 0.003 | 0.004   |     |     | 1     |
| 2     |     |     | 0 B     | 2.35   | 0.610  | 0.048 | 0.018 | 0.010 | 0.003 | 0.004   |     |     | 2     |
| 3     |     |     | 0 B     | 2.64   | 0.421  | 0.073 | 0.018 | 0.010 | 0.003 | 0.004   |     |     | 3     |
| 4     |     |     | 0 B     | 1.72   | 0.356  | 0.046 | 0.017 | 0.010 | 0.005 | 0.004   |     |     | 4     |
| 5     |     |     | 0 B     | 0.913  | 0.465  | 0.033 | 0.017 | 0.010 | 0.005 | 0.004   |     |     | 5     |
| 6     |     |     | 0 B     | 0.343  | 0.502  | 0.025 | 0.016 | 0.008 | 0.006 | 0.004   |     |     | 6     |
| 7     |     |     | 0 B     | 0.162  | 0.252  | 0.021 | 0.016 | 0.006 | 0.007 | 0.004   |     |     | 7     |
| 8     |     |     | 0 B     | 0.223  | 0.133  | 0.019 | 0.017 | 0.006 | 0.008 | 0.004   |     |     | 8     |
| 9     |     |     | 0 B     | 0.325  | 0.082  | 0.020 | 0.019 | 0.007 | 0.007 | 0.004   |     |     | 9     |
| 10    |     |     | 0 B     | 2.55   | 0.060  | 0.020 | 0.027 | 0.007 | 0.006 | 0.004   |     |     | 10    |
| 11    |     |     | 0 B     | 4.56   | 0.049  | 0.020 | 0.021 | 0.008 | 0.006 | 0.004   |     |     | 11    |
| 12    |     |     | 0 B     | 5.67   | 0.049  | 0.020 | 0.017 | 0.008 | 0.011 | 0.004   |     |     | 12    |
| 13    |     |     | 0 B     | 6.76   | 0.049  | 0.020 | 0.015 | 0.009 | 0.017 | 0.003   |     |     | 13    |
| 14    |     |     | 0 B     | 4.97   | 0.043  | 0.019 | 0.016 | 0.009 | 0.009 | 0.003   |     |     | 14    |
| 15    |     |     | 0 B     | 3.63   | 1.36   | 0.017 | 0.015 | 0.008 | 0.008 | 0.004   |     |     | 15    |
| 16    |     |     | 0 B     | 2.27   | 1.97   | 0.016 | 0.013 | 0.008 | 0.008 | 0.004   |     |     | 16    |
| 17    |     |     | 0.102 B | 1.05   | 1.13   | 0.015 | 0.013 | 0.009 | 0.007 | 0.003   |     |     | 17    |
| 18    |     |     | 0.302 B | 0.794  | 0.571  | 0.017 | 0.013 | 0.008 | 0.009 | 0.003   |     |     | 18    |
| 19    |     |     | 0.129 B | 0.645  | 0.292  | 0.018 | 0.013 | 0.006 | 0.010 | 0.003   |     |     | 19    |
| 20    |     |     | 0.069 B | 0.530  | 0.170  | 0.020 | 0.013 | 0.005 | 0.010 | 0.003   |     |     | 20    |
| 21    |     |     | 2.26 B  | 0.431  | 0.118  | 0.020 | 0.011 | 0.007 | 0.009 | 0.004   |     |     | 21    |
| 22    |     |     | 1.48 B  | 0.269  | 0.079  | 0.020 | 0.010 | 0.009 | 0.010 | 0.004   |     |     | 22    |
| 23    |     |     | 0.730 B | 0.145  | 0.056  | 0.020 | 0.009 | 0.008 | 0.009 | 0.004   |     |     | 23    |
| 24    |     |     | 0.204 B | 0.089  | 0.044  | 0.018 | 0.011 | 0.007 | 0.010 | 0.004   |     |     | 24    |
| 25    |     |     | 0.085 B | 0.218  | 0.039  | 0.017 | 0.011 | 0.006 | 0.009 | 0.004   |     |     | 25    |
| 26    |     | 0 B | 0.097 B | 0.382  | 0.033  | 0.017 | 0.010 | 0.004 | 0.006 | 0.004   |     |     | 26    |
| 27    |     | 0 B | 0.068 B | 0.415  | 0.030  | 0.019 | 0.008 | 0.004 | 0.005 | 0.005   |     |     | 27    |
| 28    |     | 0 B | 0.069   | 0.412  | 0.026  | 0.017 | 0.008 | 0.005 | 0.005 | 0.005   |     |     | 28    |
| 29    |     |     | 0.075   | 1.87   | 0.024  | 0.018 | 0.007 | 0.005 | 0.004 | 0.005 A |     |     | 29    |
| 30    |     |     | 0.115   | 3.41   | 0.035  | 0.018 | 0.009 | 0.004 | 0.004 | 0.005 E |     |     | 30    |
| 31    |     |     | 0.077   |        | 0.028  |       | 0.009 | 0.003 |       | 0.005 E |     |     | 31    |
| TOTAL |     |     | 5.862   | 49.845 | 10.166 | 0.694 | 0.435 | 0.224 | 0.219 | 0.123   |     |     | TOTAL |
| MEAN  |     |     | 0.189   | 1.66   | 0.328  | 0.023 | 0.014 | 0.007 | 0.007 | 0.004   |     |     | MEAN  |
| DAM3  |     |     | 506     | 4310   | 878    | 60.0  | 37.6  | 19.4  | 18.9  | 10.6    |     |     | DAM3  |
| MAX   |     |     | 2.26    | 6.76   | 1.97   | 0.073 | 0.027 | 0.010 | 0.017 | 0.005   |     |     | MAX   |
| MIN   |     |     | 0       | 0.089  | 0.024  | 0.015 | 0.007 | 0.003 | 0.003 | 0.003   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN DISCHARGE, 0.276 M3/S

TOTAL DISCHARGE, 5840 DAM3

MAXIMUM DAILY DISCHARGE, 6.76 M3/S ON APR 13

MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

MAXIMUM INSTANTANEOUS DISCHARGE, 9.11 M3/S AT 20:39 C.S.T. ON APRIL 13.

A-MANUAL GAUGE  
 B-ICE CONDITIONS  
 E-ESTIMATED

APPROVED BY:

*B. Galston*

FOR CANADA

*Jac A. Mouchard*

FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK. 08:18

MIDDLE CREEK RESERVOIR

STATION NO. 11A8080

DAILY WATER LEVEL IN METRES FOR 1985

| DAY   | JAN | FEB | MAR      | APR      | MAY      | JUN      | JUL      | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-------|
| 1     |     |     | DRY      | 1027.101 | 1027.817 | 1027.509 | 1027.093 | DRY | DRY | DRY |     |     | 1     |
| 2     |     |     | DRY      | 1027.118 | 1027.808 | 1027.479 | 1027.098 | DRY | DRY | DRY |     |     | 2     |
| 3     |     |     | DRY      | 1027.221 | 1027.794 | 1027.445 | 1027.062 | DRY | DRY | DRY |     |     | 3     |
| 4     |     |     | DRY      | 1027.272 | 1027.797 | 1027.432 | 1027.066 | DRY | DRY | DRY |     |     | 4     |
| 5     |     |     | DRY      | 1027.335 | 1027.744 | 1027.427 | 1027.069 | DRY | DRY | DRY |     |     | 5     |
| 6     |     |     | DRY      | 1027.344 | 1027.715 | 1027.406 | 1027.058 | DRY | DRY | DRY |     |     | 6     |
| 7     |     |     | DRY      | 1027.357 | 1027.691 | 1027.388 | 1027.023 | DRY | DRY | DRY |     |     | 7     |
| 8     |     |     | DRY      | 1027.364 | 1027.669 | 1027.337 | 1027.007 | DRY | DRY | DRY |     |     | 8     |
| 9     |     |     | DRY      | 1027.370 | 1027.650 | 1027.308 | 1026.998 | DRY | DRY | DRY |     |     | 9     |
| 10    |     |     | DRY      | 1027.381 | 1027.633 | 1027.278 | 1026.989 | DRY | DRY | DRY |     |     | 10    |
| 11    |     |     | DRY      | 1027.479 | 1027.641 | 1027.278 | 1026.987 | DRY | DRY | DRY |     |     | 11    |
| 12    |     |     | DRY      | 1027.594 | 1027.631 | 1027.266 | DRY      | DRY | DRY | DRY |     |     | 12    |
| 13    |     |     | DRY      | 1027.738 | 1027.617 | 1027.243 | DRY      | DRY | DRY | DRY |     |     | 13    |
| 14    |     |     | DRY      | 1027.854 | 1027.612 | 1027.240 | DRY      | DRY | DRY | DRY |     |     | 14    |
| 15    |     |     | DRY      | 1027.951 | 1027.591 | 1027.210 | DRY      | DRY | DRY | DRY |     |     | 15    |
| 16    |     |     | DRY      | 1028.015 | 1027.658 | 1027.156 | DRY      | DRY | DRY | DRY |     |     | 16    |
| 17    |     |     | DRY      | 1028.038 | 1027.703 | 1027.156 | DRY      | DRY | DRY | DRY |     |     | 17    |
| 18    |     |     | DRY      | 1028.033 | 1027.718 | 1027.184 | DRY      | DRY | DRY | DRY |     |     | 18    |
| 19    |     |     | DRY      | 1027.999 | 1027.725 | 1027.182 | DRY      | DRY | DRY | DRY |     |     | 19    |
| 20    |     |     | DRY      | 1028.013 | 1027.721 | 1027.114 | DRY      | DRY | DRY | DRY |     |     | 20    |
| 21    |     |     | DRY      | 1027.959 | 1027.717 | 1027.158 | DRY      | DRY | DRY | DRY |     |     | 21    |
| 22    |     |     | 1027.026 | 1027.930 | 1027.709 | 1027.141 | DRY      | DRY | DRY | DRY |     |     | 22    |
| 23    |     |     | 1027.133 | 1027.896 | 1027.699 | 1027.163 | DRY      | DRY | DRY | DRY |     |     | 23    |
| 24    |     |     | 1027.120 | 1027.861 | 1027.694 | 1027.159 | DRY      | DRY | DRY | DRY |     |     | 24    |
| 25    |     |     | 1027.107 | 1027.819 | 1027.664 | 1027.093 | DRY      | DRY | DRY | DRY |     |     | 25    |
| 26    |     | DRY | 1027.094 | 1027.828 | 1027.631 | 1027.120 | DRY      | DRY | DRY | DRY |     |     | 26    |
| 27    |     | DRY | 1027.078 | 1027.832 | 1027.613 | 1027.122 | DRY      | DRY | DRY | DRY |     |     | 27    |
| 28    |     | DRY | 1027.074 | 1027.797 | 1027.588 | 1027.107 | DRY      | DRY | DRY | DRY |     |     | 28    |
| 29    |     |     | 1027.081 | 1027.759 | 1027.566 | 1027.094 | DRY      | DRY | DRY | DRY |     |     | 29    |
| 30    |     |     | 1027.084 | 1027.798 | 1027.542 | 1027.095 | DRY      | DRY | DRY | DRY |     |     | 30    |
| 31    |     |     | 1027.078 |          | 1027.518 |          | DRY      | DRY | DRY | DRY |     |     | 31    |
| TOTAL |     |     |          | *****    | *****    | *****    |          |     |     |     |     |     | TOTAL |
| MEAN  |     |     |          | 1027.669 | 1027.673 | 1027.243 |          |     |     |     |     |     | MEAN  |
| MAX   |     |     |          | 1028.038 | 1027.817 | 1027.509 |          |     |     |     |     |     | MAX   |
| MIN   |     |     |          | 1027.101 | 1027.518 | 1027.093 |          |     |     |     |     |     | MIN   |

SUMMARY FOR THE YEAR 1985

MAXIMUM DAILY WATER LEVEL, 1028.038 METRES ON APR 17

MINIMUM DAILY WATER LEVEL, DRY ON FEB 26

MAXIMUM INSTANTANEOUS WATER LEVEL, 1028.090 METRES AT 13:32 C.S.T. ON APRIL 20.

WATER LEVELS ARE REFERRED TO G.S.C. DATUM

APPROVED BY: B. J. Wilson FOR CANADA

James A. MacLeod FOR THE UNITED STATES



WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK.

MIDDLE CREEK RESERVOIR BEDFORD OUTLET

STATION NO. 11AB114

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 24    |
| 25    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 25    |
| 26    |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0   |     | 0   |     | 0   | 0   |     | 0   |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0 M3/S  
 TOTAL DISCHARGE, 0 DAM3  
 MAXIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK.

MIDDLE CREEK RESERVOIR FLOOD SPILLWAY

STATION NO. 11AB115

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 24    |
| 25    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 25    |
| 26    |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0   |     | 0   |     | 0   | 0   |     | 0   |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0 M3/S  
 TOTAL DISCHARGE, 0 DAM3  
 MAXIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

WATER SURVEY OF CANADA  
 JAN 15 1986  
 REGINA, SASK. 15:51

MIDDLE CREEK BELOW MIDDLE CREEK RESERVOIR

STATION NO. 11AB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR       | APR   | MAY    | JUN   | JUL | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----------|-------|--------|-------|-----|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0 B 0     | 0.455 | 0.326  | 0     | 0   | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0 B 0.013 | 0.828 | 0.484  | 0     | 0   | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0 B 0.008 | 2.19  | 0.464  | 0     | 0   | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0 B 0.002 | 2.16  | 0.452  | 0     | 0   | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0 B 0.001 | 1.72  | 0.465  | 0     | 0   | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0 B 0     | 1.05  | 0.446  | 0     | 0   | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0 B 0     | 0.839 | 0.420  | 0     | 0   | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0 B 0     | 0.565 | 0.365  | 0     | 0   | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0 B 0     | 0.629 | 0.309  | 0     | 0   | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0 B 0     | 0.661 | 0.245  | 0     | 0   | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0 B 0.004 | 0.085 | 0.211  | 0     | 0   | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0 B 0.006 | 0.079 | 0.192  | 0     | 0   | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0 B 0.002 | 0.090 | 0.229  | 0     | 0   | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0 B 0.001 | 0.079 | 0.223  | 0     | 0   | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0 B 0     | 0.068 | 0.202  | 0     | 0   | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0         | 0     | 0.066  | 0.191 | 0   | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0         | 0     | 0.071  | 0.193 | 0   | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0         | 0.052 | 0.073  | 0.099 | 0   | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0         | 0.280 | 0.072  | 0.050 | 0   | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0         | 0.449 | 0.073  | 0.018 | 0   | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0         | 0.553 | 0.072  | 0.004 | 0   | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0         | 0.611 | 0.071  | 0.001 | 0   | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0         | 0.679 | 0.058  | 0     | 0   | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0         | 0.579 | 0.074  | 0     | 0   | 0   | 0   | 0   |     |     | 24    |
| 25    |     |     | 0         | 0.468 | 0.713  | 0     | 0   | 0   | 0   | 0   |     |     | 25    |
| 26    |     | 0 B | 0         | 0.381 | 0.821  | 0     | 0   | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0 B | 0         | 0.449 | 0.838  | 0     | 0   | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0 B | 0         | 0.429 | 0.808  | 0     | 0   | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0         | 0.392 | 0.769  | 0     | 0   | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0         | 0.431 | 0.778  | 0     | 0   | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0         |       | 0.558  | 0     | 0   | 0   | 0   | 0   |     |     | 31    |
| TOTAL |     |     | 0         | 5.790 | 17.413 | 5.589 | 0   | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0         | 0.193 | 0.562  | 0.186 | 0   | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0         | 500   | 1500   | 483   | 0   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0         | 0.679 | 2.19   | 0.484 | 0   | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0         | 0     | 0.058  | 0     | 0   | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN DISCHARGE, 0.118 M3/S

TOTAL DISCHARGE, 2480 DAM3

MAXIMUM DAILY DISCHARGE, 2.19 M3/S ON MAY 3

MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

MAXIMUM INSTANTANEOUS DISCHARGE, 2.24 M3/S AT 00:48 C.S.T. ON MAY 04

B-ICE CONDITIONS

APPROVED BY:

*[Signature]*

FOR CANADA

*[Signature]*

FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 6 1986  
 REGINA, SASK.

ALTAWAN EVAPORATION

STATION NO. 11EV089

NET DAILY PAN EVAPORATION IN METRES FOR 1985

| DAY   | JAN | FEB | MAR | APR    | MAY    | JUN   | JUL    | AUG    | SEP    | OCT   | NOV | DEC | DAY   |
|-------|-----|-----|-----|--------|--------|-------|--------|--------|--------|-------|-----|-----|-------|
| 1     |     |     |     | 0.004  | 0.006  | 0.005 | 0.009  | 0.006  | 0.004  | 0     |     |     | 1     |
| 2     |     |     |     | 0      | 0.007  | 0.004 | 0.010  | -0.016 | 0.004  | 0     |     |     | 2     |
| 3     |     |     |     | 0      | -0.006 | 0.005 | 0.010  | 0.004  | 0.004  | 0     |     |     | 3     |
| 4     |     |     |     | 0      | 0.006  | 0.006 | 0.009  | 0.005  | 0.003  | 0     |     |     | 4     |
| 5     |     |     |     | 0      | 0.007  | 0.007 | 0.010  | 0.005  | 0.003  | 0     |     |     | 5     |
| 6     |     |     |     | -0.008 | 0.006  | 0.006 | 0.009  | 0.005  | 0      | 0     |     |     | 6     |
| 7     |     |     |     | 0.003  | 0.007  | 0.008 | 0.009  | -0.007 | -0.024 | 0     |     |     | 7     |
| 8     |     |     |     | 0.004  | 0.007  | 0.007 | 0.009  | 0.006  | -0.004 | 0     |     |     | 8     |
| 9     |     |     |     | 0.004  | 0.007  | 0.006 | 0.014  | 0.005  | -0.002 | 0     |     |     | 9     |
| 10    |     |     |     | 0.004  | 0.007  | 0.006 | 0.011  | -0.002 | 0.001  | 0     |     |     | 10    |
| 11    |     |     |     | 0.004  | 0.006  | 0.007 | 0.010  | -0.003 | 0.001  | 0     |     |     | 11    |
| 12    |     |     |     | 0.003  | -0.009 | 0.006 | 0.010  | -0.005 | -0.018 | 0     |     |     | 12    |
| 13    |     |     |     | 0.005  | 0.006  | 0.007 | 0.009  | -0.004 | -0.042 | 0     |     |     | 13    |
| 14    |     |     |     | 0.006  | 0.006  | 0.007 | 0.010  | 0.003  | -0.006 | 0     |     |     | 14    |
| 15    |     |     |     | 0.006  | 0.007  | 0.007 | 0.010  | 0.003  | 0.001  | 0     |     |     | 15    |
| 16    |     |     |     | 0.006  | 0.007  | 0.008 | 0.009  | 0.004  | 0.002  | 0.007 |     |     | 16    |
| 17    |     |     |     | 0.006  | 0.007  | 0.007 | 0.009  | 0.004  | 0.002  | 0.001 |     |     | 17    |
| 18    |     |     |     | 0.006  | 0.008  | 0.008 | 0.009  | 0.005  | -0.003 | 0.002 |     |     | 18    |
| 19    |     |     |     | 0.007  | 0.008  | 0.008 | 0.009  | -0.005 | 0.001  | 0.001 |     |     | 19    |
| 20    |     |     |     | 0.007  | 0.008  | 0.007 | 0.008  | -0.007 | 0.001  | 0.002 |     |     | 20    |
| 21    |     |     |     | 0.002  | 0.007  | 0.007 | 0.007  | -0.004 | 0.002  | 0.002 |     |     | 21    |
| 22    |     |     |     | 0.002  | 0.007  | 0.007 | 0.008  | 0.003  | 0.002  | 0.002 |     |     | 22    |
| 23    |     |     |     | 0.005  | 0.010  | 0.008 | -0.003 | 0.005  | 0.001  | 0.002 |     |     | 23    |
| 24    |     |     |     | 0.005  | 0.005  | 0.008 | 0.007  | 0.005  | 0.001  | 0.002 |     |     | 24    |
| 25    |     |     |     | 0.002  | 0.005  | 0.008 | 0.007  | -0.003 | 0.001  | 0.002 |     |     | 25    |
| 26    |     |     |     | -0.010 | 0.003  | 0.008 | 0.007  | -0.005 | -0.012 | 0.002 |     |     | 26    |
| 27    |     |     |     | 0.003  | 0.006  | 0.008 | 0.008  | -0.003 | 0.001  | 0.003 |     |     | 27    |
| 28    |     |     |     | 0.005  | 0.005  | 0.008 | 0.008  | 0.003  | 0      | 0     |     |     | 28    |
| 29    |     |     |     | 0.005  | -0.022 | 0.008 | 0.007  | 0.003  | 0      | 0     |     |     | 29    |
| 30    |     |     |     | 0.006  | 0.005  | 0.009 | 0.007  | 0.004  | 0      | 0     |     |     | 30    |
| 31    |     |     |     |        | 0.002  |       | 0.008  | 0.004  |        | 0     |     |     | 31    |
| TOTAL |     |     |     | 0.092  | 0.141  | 0.211 | 0.264  | 0.018  | -0.076 | 0.028 |     |     | TOTAL |
| MEAN  |     |     |     | 0.003  | 0.005  | 0.007 | 0.009  | 0.001  | -0.003 | 0.001 |     |     | MEAN  |
| DAM3  |     |     |     | 7.95   | 12.2   | 18.2  | 22.8   | 1.56   | -6.57  | 2.42  |     |     | DAM3  |
| MAX   |     |     |     | 0.007  | 0.010  | 0.009 | 0.014  | 0.006  | 0.004  | 0.007 |     |     | MAX   |
| MIN   |     |     |     | -0.010 | -0.022 | 0.004 | -0.003 | -0.016 | -0.042 | 0     |     |     | MIN   |

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

ALTAVAN RESERVOIR NEAR GOVENLOCK

11AB089

| ] PERIOD ] | ] EVAPORATION ]                    |                   |                           | ] ELEVATION AT ]                        |                                   | ] STORAGE AT ]                             |                                      | ] CHANGE IN ]<br>] STORAGE ]<br>(DAK3) ] |
|------------|------------------------------------|-------------------|---------------------------|---|-----------------------------------|--|--------------------------------------|--|
|            | ] MEAN ]<br>] ELEVATION ]<br>(M) ] | ] PAN ]<br>(CM) ] | ] RESERVOIR ]<br>(DAK3) ] | ] BEGINNING ]<br>] OF PERIOD ]<br>(M) ] | ] END ]<br>] OF PERIOD ]<br>(M) ] | ] BEGINNING ]<br>] OF PERIOD ]<br>(DAK3) ] | ] END ]<br>] OF PERIOD ]<br>(DAK3) ] |  |
| 1          | 889.250                            | 0.0               | 0                         | 889.253                                 | 889.253                           | 0  | 0                                    | 0  |
| 2          | 889.250                            | 0.0               | 0                         | 889.253                                 | 889.253                           | 0  | 0                                    | 0  |
| 3          | 893.481                            | 0.0               | 0                         | 889.253                                 | 895.011                           | 0  | 1110                                 | 1110                                     |
| 4          | 895.957                            | 0.3               | 2                         | 895.011                                 | 896.891                           | 1110                                       | 2591                                 | 1481                                     |
| 5          | 897.831                            | 5.0               | 44                        | 896.891                                 | 898.375                           | 2591                                       | 4414                                 | 1823                                     |
| 6          | 897.872                            | 2.8               | 25                        | 898.375                                 | 897.659                           | 4414                                       | 3439                                 | -975                                     |
| 7          | 897.790                            | 5.1               | 44                        | 897.659                                 | 897.468                           | 3439                                       | 3217                                 | -222                                     |
| 8          | 896.948                            | 5.2               | 38                        | 897.468                                 | 896.993                           | 3217                                       | 2696                                 | -521                                     |
| 9          | 896.255                            | 4.2               | 26                        | 896.993                                 | 895.680                           | 2696                                       | 1528                                 | -1168                                    |
| 10         | 895.709                            | 5.5               | 27                        | 895.680                                 | 895.273                           | 1528                                       | 1263                                 | -265                                     |
| 11         | 895.265                            | 6.9               | 29                        | 895.273                                 | 895.235                           | 1263                                       | 1240                                 | -23                                      |
| 12         | 895.198                            | 7.7               | 32                        | 895.235                                 | 895.157                           | 1240                                       | 1194                                 | -46                                      |
| 13         | 895.121                            | 9.2               | 37                        | 895.157                                 | 894.962                           | 1194                                       | 1083                                 | -111                                     |
| 14         | 893.981                            | 10.1              | 28                        | 894.962                                 | 889.754                           | 1083                                       | 1                                    | -1082                                    |
| 15         | 890.516                            | 7.3               | 2                         | 889.754                                 | 890.691                           | 1  | 19                                   | 18                                       |
| 16         | 890.712                            | 2.3               | 1                         | 890.691                                 | 890.726                           | 19   | 21                                   | 2  |
| 17         | 890.743                            | 1.0               | 0                         | 890.726                                 | 890.758                           | 21   | 22                                   | 1  |
| 18         | 890.777                            | -0.8              | 0                         | 890.758                                 | 890.786                           | 22   | 23                                   | 1  |
| 19         | 890.773                            | -0.2              | 0                         | 890.786                                 | 890.784                           | 23   | 23                                   | 0  |
| 20         | 890.864                            | -6.4              | -2                        | 890.784                                 | 890.531                           | 23   | 13                                   | -10                                      |
| 21         | 890.489                            | -0.2              | 0                         | 890.531                                 | 891.163                           | 13   | 46                                   | 33                                       |
| 22         | 889.835                            | 0.0               | 0                         | 891.163                                 | 889.253                           | 46   | 0                                    | -46                                      |
| 23         | 889.250                            | 1.0               | 0                         | 889.253                                 | 889.253                           | 0  | 0                                    | 0  |
| 24         | 889.250                            | 1.8               | 0                         | 889.253                                 | 889.253                           | 0  | 0                                    | 0  |

EVAPORATION STATION IS ALTAVAN

WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK. 08:12

SPANGLER DITCH NEAR GOVENLOCK

STATION NO. 11AB060

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR | MAY    | JUN | JUL   | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|--------|-----|-------|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0      | 0   | 0     | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0   | 0   | 0      | 0   | 0     | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0   | 0   | 0      | 0   | 0     | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0   | 0   | 0      | 0   | 0     | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0   | 0   | 0      | 0   | 0     | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0   | 0   | 0.475  | 0   | 0     | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0   | 0   | 1.34   | 0   | 0     | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0   | 0   | 1.53   | 0   | 1.06  | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0   | 0   | 1.51   | 0   | 1.83  | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0   | 0   | 1.52   | 0   | 1.81  | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0   | 0   | 1.52   | 0   | 1.78  | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0   | 0   | 1.52   | 0   | 1.75  | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0   | 0   | 1.54   | 0   | 0.935 | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0   | 0   | 1.55   | 0   | 0.016 | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0   | 0   | 1.54   | 0   | 0     | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0   | 0   | 1.40   | 0   | 0     | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0   | 0   | 0.820  | 0   | 0     | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0   | 0   | 0.775  | 0   | 0     | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0   | 0   | 0.782  | 0   | 0     | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0   | 0   | 0.624  | 0   | 0     | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0   | 0   | 0.471  | 0   | 0     | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0   | 0   | 0.368  | 0   | 0     | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0   | 0   | 0.298  | 0   | 0     | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0   | 0   | 0.069  | 0   | 0     | 0   | 0   | 0   |     |     | 24    |
| 25    |     |     | 0   | 0   | 0.067  | 0   | 0     | 0   | 0   | 0   |     |     | 25    |
| 26    |     |     | 0   | 0   | 0.067  | 0   | 0     | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0   | 0   | 0   | 0.056  | 0   | 0     | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0   | 0   | 0   | 0.020  | 0   | 0     | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0   | 0   | 0.019  | 0   | 0     | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0   | 0   | 0.021  | 0   | 0     | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0   | 0   | 0      | 0   | 0     | 0   | 0   | 0   |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 19.902 | 0   | 9.181 | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 0.642  | 0   | 0.296 | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 1720   | 0   | 793   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 1.55   | 0   | 1.83  | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0      | 0   | 0     | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.119 M3/S  
 TOTAL DISCHARGE, 2510 DAM3  
 MAXIMUM DAILY DISCHARGE, 1.83 M3/S ON JUL 9  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

APPROVED BY: *B. J. Wilson* FOR CANADA

*Joe A. McMichael* FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK.

SQUAW COULEE NEAR WILLOW CREEK

STATION NO. 11AB103

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 24    |
| 25    |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 25    |
| 26    |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0   |     | 0   |     | 0   | 0   |     | 0   |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0 M3/S  
 TOTAL DISCHARGE, 0 DAM3  
 MAXIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

Minor Diversions for 1985 in the Lodge Creek Basin (Alberta)  
(cubic decametres)

Alberta Environment Water Rights Branch Project File Number

| Period           | 8097  |     |       |     |       |       |       |      |       |       |     |      |      |      |     | Total for<br>Period |
|------------------|-------|-----|-------|-----|-------|-------|-------|------|-------|-------|-----|------|------|------|-----|---------------------|
|                  | 14535 | 412 | 14562 | 397 | 15617 | 16378 | 16878 | 9654 | 12719 | 13803 | 415 | 2130 | 2935 | 3787 | 370 |                     |
| Up to April 8    | 21    | 12  | 20    | 33  | 0     | 2     | 0     | 0    | 0     | 308   | 21  | 0    | 11   | 27   | 0   | 456                 |
| April 9-18       | 0     | 0   | 0     | 0   | 0     | 0     | 4     | 39   | 102   | 0     | 0   | 19   | 0    | 0    | 0   | 164                 |
| April 19-28      | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 47   | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 47                  |
| April 29 - May 8 | 0     | 0   | 0     | 0   | 0     | 0     | 0     | -56  | 0     | 0     | 0   | 11   | 0    | 0    | 0   | -44                 |
| May 9-18         | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 0    | 0     | 62    | 0   | 5    | 0    | 0    | 0   | 67                  |
| May 19-29        | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 0                   |
| May 30 - June 8  | 0     | 0   | 0     | 37  | 37    | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 6   | 80                  |
| June 9-18        | 0     | -12 | 0     | 0   | 21    | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 16  | 25                  |
| June 19-28       | -21   | 0   | 0     | 7   | 72    | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 5   | 63                  |
| June 29 - July 8 | 0     | 0   | -20   | 27  | 64    | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 72                  |
| July 9-18        | 0     | 0   | 0     | 39  | 68    | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 107                 |
| July 19-29       | 0     | 0   | 0     | 19  | 2     | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 21                  |
| July 30 - Aug 8  | 0     | 0   | 0     | 17  | 0     | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 17                  |
| Aug 9-18         | 0     | 0   | 0     | 12  | 23    | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 36                  |
| Aug 19-29        | 0     | 0   | 0     | 0   | 1     | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 1                   |
| Aug 30 - Sep 8   | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 0                   |
| Sep 9-18         | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 0                   |
| Sep 19-28        | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 0                   |
| Sep 29 - Oct 8   | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 0                   |
| Oct 9-18         | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 0                   |
| Oct 19-29        | 0     | 0   | 0     | 0   | 0     | 0     | 0     | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0   | 0                   |
| Total for season | 0     | 0   | 0     | 192 | 289   | 2     | 4     | 31   | 102   | 370   | 21  | 35   | 11   | 27   | 27  | 1111                |

Note: Period totals may not be exact as data is converted from data supplied in acre-feet by Alberta Environment.



Minor Diversions  
Lodge Creek Basin (Alta)  
1985

| File No.                      | Ditch Owner          | Point of Diversions | Diverting from     | Approximate dam3 diverted |        |
|-------------------------------|----------------------|---------------------|--------------------|---------------------------|--------|
|                               |                      |                     |                    | June 30                   | Oct 31 |
| 365                           | M Bar Ranch Ltd.     | SW 32-5-1-4         | Grant Creek        | 0                         | 0      |
| 370                           | David Yeast, et al   | NE 1-7-3-4          | Thelma Creek       | 27                        | 0      |
| 386                           | T. S. Clarke         | SW 21-7-3-4         | Sexton Creek       | 0                         | 0      |
| 412                           | Randy Lehr           | SE 9-6-3-4          | Cobblestone Coulee | 0                         | 0      |
| 415                           | Perry Yeast          | NE 34-6-3-4         | Read Creek         | 21                        | 0      |
| 920                           | Chris A. Vossler     | NE 34-6-2-4         | Hard Rock Coulee   | 0                         | 0      |
| 920                           | (two projects)       | SE 3-7-2-4          | Hard Rock Coulee   | 0                         | 0      |
| 1830                          | Harvard Kusler       | SW 3-7-2-4          | Ogden Coulee       | 0                         | 0      |
| 2130                          | Henry G. Walburger   | NE 25-3-1-4         | Coulee No. 43      | 35                        | 0      |
| 2935                          | Claude Hassard       | NE 33-7-3-4         | Lodge Creek        | 11                        | 0      |
| 3787                          | George Shock         | NE 25-7-3-4         | Coulee No. 88      | 27                        | 0      |
| 8097                          | Randy Lehr (Res. #2) | SE 16-6-3-4         | Greasewood Coulee  | 77                        | 114    |
| 397                           | (two projects)       | SE 22-6-3-4         | Thelma Creek       | -                         | -      |
| 9654                          | Harvey Hassard       | SW 14-7-4-4         | Coulee No. 666     | 30                        | 0      |
| 12719                         | Perry Yeast          | SW 25-6-3-4         | Coulee No. 154     | 102                       | 0      |
| 13803                         | Perry Yeast          | SE 10-6-3-4         | Lodge Creek        | 370                       | 0      |
| 14535                         | Randy Lehr           | NE 8-6-3-4          | Cobblestone Coulee | 0                         | 0      |
| 14562                         | Randy Lehr           | NE 4-6-3-4          | Suiste Coulee      | 0                         | 0      |
| 15617                         | Randy Lehr           | NE 3-6-3-4          | Lodge Creek        | 130                       | 158    |
| 16378                         | Joseph M. Saville    | SE 24-3-1-4         | coulee             | 2                         | 0      |
| 16878                         | C & D Kleinknecht    | NW 14-6-4-4         | coulee             | 4                         | 0      |
| 20452                         | Roy Betcker          | SW 35-5-1-4         | coulee             | 0                         | 0      |
| Total usage in Alberta (dam3) |                      |                     |                    | 836                       | 272    |

Minor Diversions  
Lodge Creek Basin (Sask)  
1985

| File No.  | Ditch Owner             | Point of Diversion | Diverting from | Approximate dam <sup>3</sup> diverted |        |
|---|-------------------------|--------------------|----------------|---------------------------------------|--------|
|   |                         |                    |                | June 30                               | Oct 31 |
| 205   | Middlefork Ranching Co. | NE 4-4-29-3        | Middle Creek   | 91                                    | 0      |
| 289   | Earl D. Schafer         | NW 23-3-29-3       | Middle Creek   | 0                                     | 0      |
| 410   | Donald H. Trumpour      | NW 24-3-29-3       | coulee         | 0                                     | 0      |
| 593   | Howard L. Buchanan      | SW 10-3-29-3       | coulee         | 19                                    | 0      |
| 787   | Carl Pederson           | SW 22-2-29-3       | coulee         | 0                                     | 0      |
| 788   | (two projects)          | SE 22-2-29-3       | coulee         | -                                     | -      |
| 831   | Joseph M. Saville       | NW 16-3-30-3       | Lodge Creek    | 100                                   | 0      |
| 1582  | Donald H. Trumpour      | SW 24-3-29-3       | coulee         | 0                                     | 0      |
| 1583  | Donald H. Trumpour      | NW 24-3-29-3       | coulee         | 0                                     | 0      |
| 4185  | Donald H. Trumpour      | SW 28-2-29-3       | coulee         | 0                                     | 0      |
| 4382  | Douglas D. Wagner       | NW 3-4-28-3        | coulee         | 0                                     | 0      |
| 4446  | Daniel Eremenko         | SW 10-2-29-3       | coulee         | 0                                     | 0      |
| 4965  | Randy Stoke             | SE 20-2-29-3       | Middle Creek   | 485                                   | 0      |
| 5136  | Howard L. Buchanan      | NE 4-3-29-3        | Middle Creek   | 728                                   | 0      |
| Usage for projects 4965 & 5136 computed from difference in flows between the hydrometric stations Middle Cr. nr. Govenlock & Middle Cr. ab. Lodge Cr. |                         |                    |                |                                       |        |
| 6196  | Stewart Stirling        | NW 4-4-28-3        | coulee         | 0                                     | 0      |
| 8250  | Battle Creek Ranch Ltd. | SE 25-4-30-3       | coulee         | 6                                     | 0      |
| 8299  | John A. Pierce          | NE 30-3-28-3       | coulee         | 0                                     | 0      |
| 10136   | Gary A. Buchanan        | SE 36-1-30-3       | coulee         | 0                                     | 0      |
| 10372   | Randy J. Wagner         | SW 29-4-29-3       | Middle Creek   | 0                                     | 0      |
| 10600   | Joseph M. Saville       | SE 21-3-30-3       | Lodge Creek    | 0                                     | 0      |
| 10663   | Carl Pederson           | NE 22-2-29-3       | coulee         | 0                                     | 0      |
| 10789   | Carl Pederson           | NE 15-2-29-3       | coulee         | 0                                     | 0      |
| 10877   | Altawan Grazing Co-op   | SW 25-3-30-3       | coulee         | 0                                     | 0      |

Minor Diversions  
Lodge Creek Basin (Sask)  
1985

| File No. | Ditch Owner             | Point of Diversion | Diverting from | Approximate dam3 diverted |        |
|----------|-------------------------|--------------------|----------------|---------------------------|--------|
|          |                         |                    |                | June 30                   | Oct 31 |
| 11204    | Randy J. Wagner         | SW 29-4-29-3       | Middle Creek   | 0                         | 0      |
| 11727    | Middlefork Ranching Co. | NW 6-4-29-3        | Lodge Creek    | 9                         | 0      |
| 11746    | Middlefork Ranching Co. | NE 1-4-30-3        | coulee         | 19                        | 0      |
| 11768    | Graham Wilkes Parsonage | SW 32-5-29-3       | Lodge Creek    | 12                        | 0      |
| 11862    | Middlefork Ranching Co. | NE 4-4-29-3        | Lodge Creek    | 47                        | 0      |
| 11906    | Randy J. Wagner         | SW 29-4-29-3       | Lodge Creek    | 0                         | 0      |
| 12352    | Middlefork Ranching Co. | NW 20-4-29-3       | Lodge Creek    | 47                        | 0      |
| 12478    | Joseph M. Saville       | NW 9-3-30-3        | Lodge Creek    | 0                         | 0      |
| 12479    | Joseph M. Saville       | NE 17-3-30-3       | Lodge Creek    | 47                        | 0      |
| 12482    | Joseph M. Saville       | SW 21-3-30-3       | Lodge Creek    | 42                        | 0      |

Minor Diversions  
McRae Creek Sub-Basin (Sask)  
1985

| File No. | Ditch Owner      | Point of Diversion | Diverting from | Approximate dam3 diverted |        |
|----------|------------------|--------------------|----------------|---------------------------|--------|
|          |                  |                    |                | June 30                   | Oct 31 |
| 582      | Fred Halladay    | NW 32-2-28-3       |                | 0                         | 0      |
| 8531     | Kenneth Reynolds | NE 6-3-28-3        |                | 0                         | 0      |
| 11146    | Martin J. Wagner | SW 9-3-28-3        |                | 0                         | 0      |
| 12375    | Martin J. Wagner | NE 4-3-28-3        |                | 0                         | 0      |
| 13961    | Kenneth Reynolds | NW 13-3-29-3       |                | 0                         | 0      |

|   |       |     |
|---|-------|-----|
| Total Usage in Saskatchewan (dam3)<br>(Lodge Creek and McRae Creek) | 1 652 | 0   |
| Total Usage in Alberta (dam3)                                       | 836   | 272 |
| Total Usage in Canada (dam3)  | 2 488 | 272 |

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR           | APR    | MAY    | JUN    | JUL    | AUG   | SEP   | OCT     | NOV | DEC | DAY   |
|-------|-----|-----|---------------|--------|--------|--------|--------|-------|-------|---------|-----|-----|-------|
| 1     |     |     | 0 B 0.748 B   | 1.37   | 0.438  | 1.45   | 0      | 0     | 0.354 | 0.322   |     |     | 1     |
| 2     |     |     | 0 B 0.857     | 6.35   | 0.393  | 1.37   | 0      | 0     | 0.412 | 0.306   |     |     | 2     |
| 3     |     |     | 0 B 0.890     | 7.48   | 0.352  | 0.898  | 0      | 0     | 0.294 | 0.306   |     |     | 3     |
| 4     |     |     | 0 B 0.621     | 3.65   | 0.306  | 0.464  | 0      | 0     | 0.214 | 0.314 A |     |     | 4     |
| 5     |     |     | 0 B 0.481     | 2.80   | 0.290  | 0.314  | 0      | 0     | 0.180 |         |     |     | 5     |
| 6     |     |     | 0 B 0.355     | 2.66   | 0.298  | 0.214  | 0      | 0     | 0.155 |         |     |     | 6     |
| 7     |     |     | 0 B 0.267     | 2.73   | 0.217  | 0.939  | 0      | 0     | 0.229 |         |     |     | 7     |
| 8     |     |     | 0 B 0.742     | 2.63   | 0.178  | 0.809  | 0      | 0     | 0.330 |         |     |     | 8     |
| 9     |     |     | 0 B 0.532     | 2.19   | 0.220  | 0.984  | 0      | 0     | 0.322 |         |     |     | 9     |
| 10    |     |     | 0 B 0.464     | 1.87   | 0.220  | 1.27   | 0      | 0     | 0.356 |         |     |     | 10    |
| 11    |     |     | 0 B 0.290     | 1.68   | 0.165  | 1.15   | 0      | 0     | 0.314 |         |     |     | 11    |
| 12    |     |     | 0 B 0.290     | 1.52   | 0.170  | 0.882  | 0      | 0     | 0.379 |         |     |     | 12    |
| 13    |     |     | 0 B 0.253     | 1.50   | 0.313  | 0.459  | 0      | 0     | 0.356 |         |     |     | 13    |
| 14    |     |     | 0.005 B 0.310 | 1.50   | 0.379  | 0.302  | 0      | 0     | 0.438 |         |     |     | 14    |
| 15    |     |     | 0.014 B 1.13  | 1.44   | 0.347  | 0.205  | 0      | 0     | 0.407 |         |     |     | 15    |
| 16    |     |     | 0.013 B 0.825 | 1.39   | 0.432  | 0.148  | 0      | 0     | 0.422 |         |     |     | 16    |
| 17    |     |     | 0.025 B 0.509 | 0.932  | 0.298  | 0.104  | 0      | 0     | 0.407 |         |     |     | 17    |
| 18    |     |     | 0.071 B 0.286 | 0.833  | 0.543  | 0.081  | 0      | 0     | 0.497 |         |     |     | 18    |
| 19    |     |     | 0.298 B 0.542 | 0.503  | 1.21   | 0.060  | 0      | 0.414 | 0.520 |         |     |     | 19    |
| 20    |     |     | 0.370 B 0.290 | 0.374  | 1.04   | 0.040  | 0      | 0.515 | 0.509 |         |     |     | 20    |
| 21    |     |     | 0.352 B 0.186 | 0.370  | 0.648  | 0.029  | 0      | 0.422 | 0.492 |         |     |     | 21    |
| 22    |     |     | 0.403 B 1.87  | 0.233  | 0.641  | 0.019  | 0      | 0.343 | 0.563 |         |     |     | 22    |
| 23    |     |     | 0.275 B 1.72  | 0.153  | 0.628  | 0.011  | 0      | 0.294 | 0.569 |         |     |     | 23    |
| 24    |     |     | 0.470 B 1.27  | 0.109  | 0.697  | 0.007  | 0      | 0.286 | 0.532 |         |     |     | 24    |
| 25    |     |     | 0.615 B 0.932 | 0.083  | 0.697  | 0.005  | 0      | 0.267 | 0.497 |         |     |     | 25    |
| 26    |     |     | 0.403 B 0.756 | 0.083  | 0.733  | 0.003  | 0      | 0.257 | 0.443 |         |     |     | 26    |
| 27    |     |     | 0.453 B 1.37  | 0.330  | 0.809  | 0.002  | 0      | 0.240 | 0.398 |         |     |     | 27    |
| 28    |     |     | 0.520 B 1.38  | 0.432  | 1.18   | 0.001  | 0      | 0.250 | 0.365 |         |     |     | 28    |
| 29    |     |     | 0.453 B 1.25  | 0.384  | 1.38   | 0      | 0      | 0.314 | 0.356 |         |     |     | 29    |
| 30    |     |     | 0.532 B 1.18  | 0.520  | 1.40   | 0      | 0      | 0.352 | 0.339 |         |     |     | 30    |
| 31    |     |     | 0.690 B       | 0.486  | 0      | 0      | 0      | 0     | 0.322 |         |     |     | 31    |
| TOTAL |     |     | 5.962         | 22.596 | 48.585 | 16.622 | 12.220 | 0     | 3.954 | 11.971  |     |     | TOTAL |
| MEAN  |     |     | 0.192         | 0.753  | 1.57   | 0.554  | 0.394  | 0     | 0.132 | 0.386   |     |     | MEAN  |
| DAM3  |     |     | 515           | 1950   | 4200   | 1440   | 1060   | 0     | 342   | 1030    |     |     | DAM3  |
| MAX   |     |     | 0.690         | 1.87   | 7.48   | 1.40   | 1.45   | 0     | 0.515 | 0.569   |     |     | MAX   |
| MIN   |     |     | 0             | 0.186  | 0.083  | 0.165  | 0      | 0     | 0     | 0.155   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN DISCHARGE, 0.498 M3/S

TOTAL DISCHARGE, 10500 DAM3

MAXIMUM DAILY DISCHARGE, 7.48 M3/S ON MAY 3

MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

MAXIMUM INSTANTANEOUS DISCHARGE 10.5 M3/S AT 02:00 C.S.T. ON MAY 03.

A-MANUAL GAUGE  
 B-ICE CONDITIONS

APPROVED BY:

*James A. Mowland*  
*[Signature]*

FOR THE UNITED STATES

FOR CANADA

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

REESOR RESERVOIR NEAR ELKVATER

11AB090

| ] PERIOD ] | ] MEAN ]<br>] ELEVATION ]<br>(M) | ] EVAPORATION ] |                         | ] ELEVATION AT ]                      |                                 | ] STORAGE AT ]                           |                                    | ] CHANGE IN ]<br>] STORAGE ]<br>(DAM3) |
|------------|----------------------------------|-----------------|-------------------------|---------------------------------------|---------------------------------|--|------------------------------------|--|
|            |                                  | ] PAN ]<br>(CM) | ] RESERVOIR ]<br>(DAM3) | ] BEGINNING ]<br>] OF PERIOD ]<br>(M) | ] END ]<br>] OF PERIOD ]<br>(M) | ] BEGINNING ]<br>] OF PERIOD ]<br>(DAM3) | ] END ]<br>] OF PERIOD ]<br>(DAM3) |  |
| 1          | 1226.093                         | 0.0             | 0                       | 1226.076                              | 1226.110                        | 1455                                     | 1472                               | 17                                     |
| 2          | 1226.117                         | 0.0             | 0                       | 1226.110                              | 1226.124                        | 1472                                     | 1479                               | 7                                      |
| 3          | 1226.142                         | 0.0             | 0                       | 1226.124                              | 1226.161                        | 1479                                     | 1497                               | 18                                     |
| 4          | 1226.186                         | 0.3             | 1                       | 1226.161                              | 1226.210                        | 1497                                     | 1522                               | 25                                     |
| 5          | 1226.220                         | 5.0             | 18                      | 1226.210                              | 1226.230                        | 1522                                     | 1532                               | 10                                     |
| 6          | 1226.282                         | 2.8             | 10                      | 1226.230                              | 1226.335                        | 1532                                     | 1586                               | 54                                     |
| 7          | 1226.312                         | 5.1             | 18                      | 1226.335                              | 1226.290                        | 1586                                     | 1563                               | -23                                    |
| 8          | 1226.268                         | 6.0             | 21                      | 1226.290                              | 1226.245                        | 1563                                     | 1540                               | -23                                    |
| 9          | 1226.242                         | 3.4             | 12                      | 1226.245                              | 1226.236                        | 1540                                     | 1536                               | -4                                     |
| 10         | 1226.224                         | 5.5             | 20                      | 1226.238                              | 1226.210                        | 1536                                     | 1522                               | -14                                    |
| 11         | 1226.180                         | 6.9             | 24                      | 1226.210                              | 1226.150                        | 1522                                     | 1492                               | -30                                    |
| 12         | 1226.162                         | 7.7             | 27                      | 1226.150                              | 1226.175                        | 1492                                     | 1504                               | 12                                     |
| 13         | 1226.180                         | 9.2             | 33                      | 1226.175                              | 1226.184                        | 1504                                     | 1509                               | 5                                      |
| 14         | 1226.167                         | 11.0            | 39                      | 1226.184                              | 1226.150                        | 1509                                     | 1492                               | -17                                    |
| 15         | 1226.146                         | 6.4             | 23                      | 1226.150                              | 1226.142                        | 1492                                     | 1488                               | -4                                     |
| 16         | 1226.126                         | 2.3             | 8                       | 1226.142                              | 1226.110                        | 1488                                     | 1472                               | -16                                    |
| 17         | 1226.050                         | 0.5             | 2                       | 1226.110                              | 1225.990                        | 1472                                     | 1411                               | -61                                    |
| 18         | 1226.052                         | -0.3            | -1                      | 1225.990                              | 1226.115                        | 1411                                     | 1474                               | 63                                     |
| 19         | 1226.145                         | -0.2            | -1                      | 1226.115                              | 1226.175                        | 1474                                     | 1504                               | 30                                     |
| 20         | 1226.222                         | -6.4            | -23                     | 1226.175                              | 1226.270                        | 1504                                     | 1553                               | 49                                     |
| 21         | 1226.308                         | -0.2            | -1                      | 1226.270                              | 1226.345                        | 1553                                     | 1591                               | 38                                     |
| 22         | 1226.344                         | 0.0             | 0                       | 1226.345                              | 1226.344                        | 1591                                     | 1591                               | 0                                      |
| 23         | 1226.352                         | 1.1             | 4                       | 1226.344                              | 1226.360                        | 1591                                     | 1599                               | 8                                      |
| 24         | 1226.345                         | 1.2             | 4                       | 1226.360                              | 1226.330                        | 1599                                     | 1584                               | -15                                    |

EVAPORATION STATION IS ALTAVAN

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

ADAMS LAKE

11AB095

| ] PERIOD ] | ] MEAN ]<br>] ELEVATION ]<br>(M) | ] EVAPORATION ] |                         |     | ] ELEVATION AT ]                      |                                 | ] STORAGE AT ]                           |                                    | ] CHANGE IN ]<br>] STORAGE ]<br>(DAM3) |
|------------|----------------------------------|-----------------|-------------------------|-----|---------------------------------------|---------------------------------|--|------------------------------------|--|
|            |                                  | ] PAN ]<br>(CM) | ] RESERVOIR ]<br>(DAM3) | ] ] | ] BEGINNING ]<br>] OF PERIOD ]<br>(M) | ] END ]<br>] OF PERIOD ]<br>(M) | ] BEGINNING ]<br>] OF PERIOD ]<br>(DAM3) | ] END ]<br>] OF PERIOD ]<br>(DAM3) |  |
| 1          | 1184.902                         | 0.0             | 0                       |     | 1184.902                              | 1184.902                        | 37                                       | 37                                 | 0                                      |
| 2          | 1184.902                         | 0.0             | 0                       |     | 1184.902                              | 1184.902                        | 37                                       | 37                                 | 0                                      |
| 3          | 1185.326                         | 0.0             | 0                       |     | 1184.902                              | 1185.750                        | 37                                       | 89                                 | 52                                     |
| 4          | 1186.223                         | 0.7             | 1                       |     | 1185.750                              | 1186.696                        | 89                                       | 236                                | 147                                    |
| 5          | 1187.036                         | 5.3             | 15                      |     | 1186.696                              | 1187.375                        | 236                                      | 510                                | 274                                    |
| 6          | 1187.670                         | 2.6             | 9                       |     | 1187.375                              | 1187.965                        | 510                                      | 813                                | 303                                    |
| 7          | 1188.062                         | 5.3             | 21                      |     | 1187.965                              | 1188.160                        | 813                                      | 921                                | 108                                    |
| 8          | 1188.165                         | 6.1             | 24                      |     | 1188.160                              | 1188.170                        | 921                                      | 927                                | 6                                      |
| 9          | 1188.170                         | 3.1             | 12                      |     | 1188.170                              | 1188.170                        | 927                                      | 927                                | 0                                      |
| 10         | 1188.148                         | 5.6             | 22                      |     | 1188.170                              | 1188.125                        | 927                                      | 902                                | -25                                    |
| 11         | 1188.100                         | 7.1             | 28                      |     | 1188.125                              | 1188.075                        | 902                                      | 874                                | -28                                    |
| 12         | 1188.052                         | 7.7             | 30                      |     | 1188.075                              | 1188.030                        | 874                                      | 848                                | -26                                    |
| 13         | 1187.960                         | 9.8             | 38                      |     | 1188.030                              | 1187.890                        | 848                                      | 772                                | -76                                    |
| 14         | 1187.795                         | 10.4            | 39                      |     | 1187.890                              | 1187.700                        | 772                                      | 671                                | -101                                   |
| 15         | 1187.620                         | 6.3             | 22                      |     | 1187.700                              | 1187.540                        | 671                                      | 590                                | -81                                    |
| 16         | 1187.508                         | 2.1             | 7                       |     | 1187.540                              | 1187.475                        | 590                                      | 558                                | -32                                    |
| 17         | 1187.438                         | -0.7            | -2                      |     | 1187.475                              | 1187.400                        | 558                                      | 522                                | -36                                    |
| 18         | 1187.380                         | 0.8             | 3                       |     | 1187.400                              | 1187.360                        | 522                                      | 503                                | -19                                    |
| 19         | 1187.368                         | -0.8            | -3                      |     | 1187.360                              | 1187.375                        | 503                                      | 510                                | 7                                      |
| 20         | 1187.388                         | -6.1            | -20                     |     | 1187.375                              | 1187.400                        | 510                                      | 522                                | 12                                     |
| 21         | 1187.415                         | -0.3            | -1                      |     | 1187.400                              | 1187.430                        | 522                                      | 536                                | 14                                     |
| 22         | 1187.470                         | 0.0             | 0                       |     | 1187.430                              | 1187.510                        | 536                                      | 575                                | 39                                     |
| 23         | 1187.548                         | 1.3             | 5                       |     | 1187.510                              | 1187.585                        | 575                                      | 612                                | 37                                     |
| 24         | 1187.608                         | 1.2             | 4                       |     | 1187.585                              | 1187.630                        | 612                                      | 635                                | 23                                     |

EVAPORATION STATION IS ALTAVAN

WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK. 10:02

GAFF DITCH NEAR HERRYFLAT

STATION NO. 11AB102

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR       | APR     | MAY   | JUN   | JUL   | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----------|---------|-------|-------|-------|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0 B 0     | B 0.458 | 0.002 | 0.022 | 0     | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0 B 0     | B 0.392 | 0.002 | 0     | 0     | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0 B 0     | B 0.385 | 0.002 | 0     | 0     | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0 B 0     | B 0.461 | 0.002 | 0     | 0     | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0 B 0     | B 0.533 | 0.001 | 0     | 0     | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0 B 0     | B 0.448 | 0.001 | 0     | 0     | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0 B 0     | B 0.405 | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0 B 0     | B 0.366 | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0 B 0.151 | B 0.360 | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0 B 0.566 | 0.149   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0 B 0.619 | 0.035   | 0.001 | 0     | 0     | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0 B 0.666 | 0.029   | 0.001 | 0     | 0     | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0 B 0.794 | 0.026   | 0.001 | 0     | 0     | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0 B 0.798 | 0.015   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0 B 0.782 | 0.002   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0 B 0.504 | 0       | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0 B 0.416 | 0.001   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0 B 0.419 | 0.001   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0 B 0.383 | 0.001   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0 B 0.342 | 0.001   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0 B 0.277 | 0.001   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0 B 0.324 | 0.001   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0 B 0.432 | 0.001   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0 B 0.431 | 0.001   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 24    |
| 25    |     | 0 B | 0 B 0.474 | 0.001   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 25    |
| 26    |     | 0 B | 0 B 0.456 | 0.001   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0 B | 0 B 0.481 | 0.002   | 0.008 | 0     | 0     | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0 B | 0 B 0.536 | 0.002   | 0.028 | 0     | 0     | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0 B 0.643 | 0.002   | 0.030 | 0     | 0     | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0 B 0.697 | 0.002   | 0.023 | 0     | 0     | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0 B       | 0.003   | 0     | 0     | 0     | 0   | 0   | 0   |     |     | 31    |
| TOTAL |     |     | 0         | 11.191  | 4.085 | 0.102 | 0.022 | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0         | 0.373   | 0.132 | 0.003 | 0.001 | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0         | 967     | 353   | 8.81  | 1.90  | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0         | 0.798   | 0.533 | 0.030 | 0.022 | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0         | 0       | 0     | 0     | 0     | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.063 M3/S  
 TOTAL DISCHARGE, 1330 DAM3  
 MAXIMUM DAILY DISCHARGE, 0.798 M3/S ON APR 14  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

B-ICE CONDITIONS

APPROVED BY: *[Signature]* FOR CANADA

*[Signature]* FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK. 08:55

CYPRESS LAKE WEST INFLOW CANAL

STATION NO. 11AB078

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR           | APR    | MAY   | JUN | JUL | AUG | SEP     | OCT     | NOV | DEC | DAY   |
|-------|-----|-----|---------------|--------|-------|-----|-----|-----|---------|---------|-----|-----|-------|
| 1     |     |     | 0 B 0.410 B   | 0.001  | 0     | 0   | 0   | 0   | 0       | 0.111   |     |     | 1     |
| 2     |     |     | 0 B 1.00 B    | 0.001  | 0     | 0   | 0   | 0   | 0       | 0.107   |     |     | 2     |
| 3     |     |     | 0 B 0.399 B   | 0.001  | 0     | 0   | 0   | 0   | 0       | 0.103   |     |     | 3     |
| 4     |     |     | 0 B 1.09 B    | 0.001  | 0     | 0   | 0   | 0   | 0       | 0.100   |     |     | 4     |
| 5     |     |     | 0 B 0.988 B   | 0      | 0     | 0   | 0   | 0   | 0       | 0.101   |     |     | 5     |
| 6     |     |     | 0 B 0.028 B   | 0      | 0     | 0   | 0   | 0   | 0       | 0.104   |     |     | 6     |
| 7     |     |     | 0 B 0.008 B   | 0      | 0     | 0   | 0   | 0   | 0       | 0.106   |     |     | 7     |
| 8     |     |     | 0 B 0.007     | 0      | 0     | 0   | 0   | 0   | 0       | 0.108   |     |     | 8     |
| 9     |     |     | 0 B 0.104     | 0      | 0     | 0   | 0   | 0   | 0       | 0.103   |     |     | 9     |
| 10    |     |     | 0 B 0.189     | 0      | 0     | 0   | 0   | 0   | 0       | 0.102   |     |     | 10    |
| 11    |     |     | 0 B 0.113     | 0      | 0     | 0   | 0   | 0   | 0       | 0.102   |     |     | 11    |
| 12    |     |     | 0 B 0.785     | 0      | 0     | 0   | 0   | 0   | 0       | 0.098   |     |     | 12    |
| 13    |     |     | 0 B 5.71      | 0.001  | 0     | 0   | 0   | 0   | 0       | 0.097   |     |     | 13    |
| 14    |     |     | 0 B 9.98      | 0      | 0     | 0   | 0   | 0   | 0       | 0.092   |     |     | 14    |
| 15    |     |     | 0 B 15.5      | 0      | 0     | 0   | 0   | 0   | 0       | 0.095   |     |     | 15    |
| 16    |     |     | 0.005 B 16.8  | 0      | 0     | 0   | 0   | 0   | 0       | 0.092   |     |     | 16    |
| 17    |     |     | 0.070 B 2.83  | 0      | 0     | 0   | 0   | 0   | 0       | 0.093   |     |     | 17    |
| 18    |     |     | 0.060 B 1.91  | 0      | 0     | 0   | 0   | 0   | 0       | 0.085   |     |     | 18    |
| 19    |     |     | 0.050 B 0.042 | 0      | 0     | 0   | 0   | 0   | 0       | 0.088   |     |     | 19    |
| 20    |     |     | 0.040 B 0.012 | 0      | 0     | 0   | 0   | 0   | 0       | 0.088   |     |     | 20    |
| 21    |     |     | 0.030 B 0.005 | 0      | 0     | 0   | 0   | 0   | 0       | 0.113   |     |     | 21    |
| 22    |     |     | 0.025 B 0.116 | 0      | 0     | 0   | 0   | 0   | 0       | 0.184   |     |     | 22    |
| 23    |     |     | 0.025 B 0.180 | 0      | 0     | 0   | 0   | 0   | 0       | 0.181   |     |     | 23    |
| 24    |     |     | 0.022 B 0.039 | 0      | 0     | 0   | 0   | 0   | 0       | 0.179   |     |     | 24    |
| 25    |     |     | 0.018 B 0.007 | 0      | 0     | 0   | 0   | 0   | 0       | 0.181   |     |     | 25    |
| 26    |     | 0 B | 0.014 B 0.007 | 0      | 0     | 0   | 0   | 0   | 0.188 A | 0.182   |     |     | 26    |
| 27    |     | 0 B | 0.010 B 0.006 | 0      | 0     | 0   | 0   | 0   | 0.367   | 0.183   |     |     | 27    |
| 28    |     | 0 B | 0.015 B 0.004 | 0      | 0     | 0   | 0   | 0   | 0.689   | 0.182 A |     |     | 28    |
| 29    |     |     | 0.352 B 0.002 | 0      | 0     | 0   | 0   | 0   | 0.691   | 0.182 E |     |     | 29    |
| 30    |     |     | 0.522 B 0.001 | 0      | 0     | 0   | 0   | 0   | 0.497   | 0.181 E |     |     | 30    |
| 31    |     |     | 0.463 B       | 0      | 0     | 0   | 0   | 0   |         | 0.180 E |     |     | 31    |
| TOTAL |     |     | 1.721         | 58.272 | 0.005 | 0   | 0   | 0   | 2.432   | 3.903   |     |     | TOTAL |
| MEAN  |     |     | 0.056         | 1.94   | 0     | 0   | 0   | 0   | 0.081   | 0.126   |     |     | MEAN  |
| DAM3  |     |     | 149           | 5030   | 0.432 | 0   | 0   | 0   | 210     | 337     |     |     | DAM3  |
| MAX   |     |     | 0.522         | 16.8   | 0.001 | 0   | 0   | 0   | 0.691   | 0.184   |     |     | MAX   |
| MIN   |     |     | 0             | 0.001  | 0     | 0   | 0   | 0   | 0       | 0.085   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.271 M<sup>3</sup>/S  
 TOTAL DISCHARGE, 5730 DAM3  
 MAXIMUM DAILY DISCHARGE, 16.8 M<sup>3</sup>/S ON APR 16  
 MINIMUM DAILY DISCHARGE, 0 M<sup>3</sup>/S ON MAR 1

A-MANUAL GAUGE  
 B-ICE CONDITIONS  
 E-ESTIMATED

APPROVED BY: [Signature] FOR CANADA

[Signature] FOR THE UNITED STATES



WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK. 09:21

CYPRESS LAKE WEST OUTFLOW CANAL

STATION NO. 11AB077

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR                                       | APR | MAY | JUN   | JUL   | AUG   | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|---|-----|-----|-------|-------|-------|-----|-----|-----|-----|-------|
| 1     |     |     | 0 B 0.004 B 0                             |     |     | 1.15  | 0.013 | 0.001 | 0   | 0   |     |     | 1     |
| 2     |     |     | 0 B 0.006 B 0                             |     |     | 1.14  | 0.367 | 0.001 | 0   | 0   |     |     | 2     |
| 3     |     |     | 0 B 0.050 B 0                             |     |     | 1.14  | 1.49  | 0.001 | 0   | 0   |     |     | 3     |
| 4     |     |     | 0 B 1.35 B 0                              |     |     | 1.15  | 0.957 | 0.001 | 0   | 0   |     |     | 4     |
| 5     |     |     | 0 B 0.058 B 0                             |     |     | 0.969 | 1.21  | 0.001 | 0   | 0   |     |     | 5     |
| 6     |     |     | 0 B 0.001 B 0                             |     |     | 0.652 | 1.59  | 0.017 | 0   | 0   |     |     | 6     |
| 7     |     |     | 0 B 0.001 0                               |     |     | 1.69  | 1.47  | 0.010 | 0   | 0   |     |     | 7     |
| 8     |     |     | 0 B 0.001 0                               |     |     | 1.41  | 1.16  | 0     | 0   | 0   |     |     | 8     |
| 9     |     |     | 0 B 0.001 0                               |     |     | 1.81  | 0.009 | 0     | 0   | 0   |     |     | 9     |
| 10    |     |     | 0 B 0.001 0                               |     |     | 1.69  | 0.029 | 0     | 0   | 0   |     |     | 10    |
| 11    |     |     | 0 B 0.002 0                               |     |     | 1.54  | 0.006 | 0     | 0   | 0   |     |     | 11    |
| 12    |     |     | 0 B 0.001 0                               |     |     | 1.95  | 0.002 | 0     | 0   | 0   |     |     | 12    |
| 13    |     |     | 0 B 0 0                                   |     |     | 1.83  | 0.001 | 0     | 0   | 0   |     |     | 13    |
| 14    |     |     | 0 B 0 0                                   |     |     | 1.76  | 0.001 | 0     | 0   | 0   |     |     | 14    |
| 15    |     |     | 0.001 B 0 0                               |     |     | 1.76  | 0.001 | 0     | 0   | 0   |     |     | 15    |
| 16    |     |     | 0.003 B 0 0.873                           |     |     | 1.42  | 0     | 0     | 0   | 0   |     |     | 16    |
| 17    |     |     | 0.004 B 0 1.43                            |     |     | 1.57  | 0     | 0     | 0   | 0   |     |     | 17    |
| 18    |     |     | 0.002 B 0 1.33                            |     |     | 1.82  | 0.001 | 0     | 0   | 0   |     |     | 18    |
| 19    |     |     | 0.001 B 0 1.31                            |     |     | 1.60  | 0.011 | 0     | 0   | 0   |     |     | 19    |
| 20    |     |     | 0.001 B 0 1.26                            |     |     | 1.77  | 0.007 | 0     | 0   | 0   |     |     | 20    |
| 21    |     |     | 0 B 0 1.26                                |     |     | 1.82  | 0.006 | 0     | 0   | 0   |     |     | 21    |
| 22    |     |     | 0.001 B 0 1.32                            |     |     | 1.85  | 0.003 | 0     | 0   | 0   |     |     | 22    |
| 23    |     |     | 0.001 B 0 1.23                            |     |     | 2.17  | 0.003 | 0     | 0   | 0   |     |     | 23    |
| 24    |     |     | 0.002 B 0 1.21                            |     |     | 1.97  | 0.003 | 0     | 0   | 0   |     |     | 24    |
| 25    |     |     | 0.001 B 0 1.13                            |     |     | 1.67  | 0.007 | 0     | 0   | 0   |     |     | 25    |
| 26    |     | 0 B | 0.001 B 0 1.15                            |     |     | 2.06  | 0.007 | 0     | 0   | 0   |     |     | 26    |
| 27    |     | 0 B | 0.002 B 0 1.12                            |     |     | 2.00  | 0.003 | 0     | 0   | 0   |     |     | 27    |
| 28    |     | 0 B | 0.001 B 0 1.01                            |     |     | 1.68  | 0.002 | 0     | 0   | 0   |     |     | 28    |
| 29    |     |     | 0.001 B 0 0.981                           |     |     | 1.34  | 0.001 | 0     | 0   | 0   |     |     | 29    |
| 30    |     |     | 0.001 B 0 1.10                            |     |     | 0.082 | 0.001 | 0     | 0   | 0   |     |     | 30    |
| 31    |     |     | 0.004 B 0.980                             |     |     |       | 0.001 | 0     |     | 0   |     |     | 31    |
| TOTAL |     |     | 0.027 1.476 18.694 46.463 8.362 0.032 0 0 |     |     |       |       |       |     |     |     |     | TOTAL |
| MEAN  |     |     | 0.001 0.049 0.603 1.55 0.270 0.001 0 0    |     |     |       |       |       |     |     |     |     | MEAN  |
| DAM3  |     |     | 2.33 128 1620 4010 722 2.76 0 0           |     |     |       |       |       |     |     |     |     | DAM3  |
| MAX   |     |     | 0.004 1.35 1.43 2.17 1.59 0.017 0 0       |     |     |       |       |       |     |     |     |     | MAX   |
| MIN   |     |     | 0 0 0 0.082 0 0 0 0                       |     |     |       |       |       |     |     |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.306 M3/S  
 TOTAL DISCHARGE, 6490 DAM3  
 MAXIMUM DAILY DISCHARGE, 2.17 M3/S ON JUN 23  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

B-ICE CONDITIONS

APPROVED BY: B. J. [Signature] FOR CANADA

J. A. [Signature] FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK. 09:11

CYPRESS LAKE WEST INFLOW CANAL DRAIN

STATION NO. 11AB085

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR           | APR         | MAY | JUN | JUL | AUG | SEP     | OCT     | NOV | DEC | DAY   |
|-------|-----|-----|---------------|-------------|-----|-----|-----|-----|---------|---------|-----|-----|-------|
| 1     |     |     | 0 B 0.003 B   | 0 B 0.003 B | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 1     |
| 2     |     |     | 0 B 0.004 B   | 0 B 0.004 B | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 2     |
| 3     |     |     | 0 B 0.003 B   | 0 B 0.003 B | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 3     |
| 4     |     |     | 0 B 0.004 B   | 0 B 0.004 B | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 4     |
| 5     |     |     | 0 B 0.003 B   | 0 B 0.003 B | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 5     |
| 6     |     |     | 0 B 0.001 B   | 0 B 0.001 B | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 6     |
| 7     |     |     | 0 B 0.001 B   | 0 B 0.001 B | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 7     |
| 8     |     |     | 0 B 0.001     | 0 B 0.001   | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 8     |
| 9     |     |     | 0 B 0.001     | 0 B 0.001   | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 9     |
| 10    |     |     | 0 B 0.001     | 0 B 0.001   | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 10    |
| 11    |     |     | 0 B 0.001     | 0 B 0.001   | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 11    |
| 12    |     |     | 0 B 0.001     | 0 B 0.001   | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 12    |
| 13    |     |     | 0 B 0.002     | 0 B 0.002   | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 13    |
| 14    |     |     | 0 B 0.001     | 0 B 0.001   | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 14    |
| 15    |     |     | 0 B 0.001     | 0 B 0.001   | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 15    |
| 16    |     |     | 0.002 B 0.001 | 0.001       | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 16    |
| 17    |     |     | 0.008 B 0.001 | 0.001       | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 17    |
| 18    |     |     | 0.010 B 0.001 | 0.001       | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 18    |
| 19    |     |     | 0.011 B 0.001 | 0.001       | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 19    |
| 20    |     |     | 0.010 B 0     | 0           | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 20    |
| 21    |     |     | 0.016 B 0     | 0           | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 21    |
| 22    |     |     | 0.094 B 0     | 0           | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 22    |
| 23    |     |     | 0.076 B 0     | 0           | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 23    |
| 24    |     |     | 0.030 B 0     | 0           | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 24    |
| 25    |     |     | 0.016 B 0     | 0           | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | 25    |
| 26    |     | 0 B | 0.019 B 0     | 0           | 0   | 0   | 0   | 0   | 0.001 A | 0.002   |     |     | 26    |
| 27    |     | 0 B | 0.014 B 0     | 0           | 0   | 0   | 0   | 0   | 0.002   | 0.002   |     |     | 27    |
| 28    |     | 0 B | 0.007 B 0     | 0           | 0   | 0   | 0   | 0   | 0.003   | 0.002 A |     |     | 28    |
| 29    |     |     | 0.006 B 0     | 0           | 0   | 0   | 0   | 0   | 0.003   | 0.002 E |     |     | 29    |
| 30    |     |     | 0.005 B 0     | 0           | 0   | 0   | 0   | 0   | 0.002   | 0.002 E |     |     | 30    |
| 31    |     |     | 0.004 B       | 0           | 0   | 0   | 0   | 0   |         | 0.002 E |     |     | 31    |
| TOTAL |     |     | 0.328         | 0.032       | 0   | 0   | 0   | 0   | 0.011   | 0.062   |     |     | TOTAL |
| MEAN  |     |     | 0.011         | 0.001       | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | MEAN  |
| DAM3  |     |     | 28.3          | 2.76        | 0   | 0   | 0   | 0   | 0.950   | 5.36    |     |     | DAM3  |
| MAX   |     |     | 0.094         | 0.004       | 0   | 0   | 0   | 0   | 0.003   | 0.002   |     |     | MAX   |
| MIN   |     |     | 0             | 0           | 0   | 0   | 0   | 0   | 0       | 0.002   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.002 M3/S  
 TOTAL DISCHARGE, 37.4 DAM3  
 MAXIMUM DAILY DISCHARGE, 0.094 M3/S ON MAR 22  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

A-MANUAL GAUGE  
 B-ICE CONDITIONS  
 E-ESTIMATED

APPROVED BY:

*[Signature]*  
*[Signature]*

FOR CANADA

FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK. 10:41

VIDORA DITCH NEAR CONSUL

STATION NO. 11AB084

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR | MAY     | JUN    | JUL   | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|---------|--------|-------|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0       | 1.25   | 0.004 | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0   | 0   | 0       | 1.22   | 0     | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0   | 0   | 0       | 1.19   | 0     | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0   | 0   | 0       | 0.907  | 0     | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0   | 0   | 0       | 0.738  | 0     | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0   | 0   | 0       | 0.395  | 0     | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0   | 0   | 0       | 0.706  | 0     | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0   | 0   | 0       | 0.253  | 0     | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0   | 0   | 0       | 0.099  | 0     | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0   | 0   | 0       | 0.097  | 0     | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0   | 0   | 0       | 0.094  | 0     | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0   | 0   | 0       | 0.167  | 0     | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0   | 0   | 0       | 0.267  | 0     | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0   | 0   | 0       | 0.270  | 0     | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0   | 0   | 0       | 0.274  | 0     | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0   | 0   | 0.760 A | 0.259  | 0     | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0   | 0   | 1.48    | 0.765  | 0     | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0   | 0   | 1.39    | 1.16   | 0     | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0   | 0   | 1.30    | 1.08   | 0     | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0   | 0   | 1.32    | 1.16   | 0     | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0   | 0   | 1.40    | 1.21   | 0     | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0   | 0   | 1.49    | 1.22   | 0     | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0   | 0   | 1.39    | 1.43   | 0     | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0   | 0   | 1.27    | 1.05   | 0     | 0   | 0   | 0   |     |     | 24    |
| 25    |     |     | 0   | 0   | 1.02    | 0.606  | 0     | 0   | 0   | 0   |     |     | 25    |
| 26    |     | 0   | 0   | 0   | 1.06    | 0.555  | 0     | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0   | 0   | 0   | 1.02    | 0.406  | 0     | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0   | 0   | 0   | 0.890   | 0.236  | 0     | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0   | 0   | 0.836   | 0.194  | 0     | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0   | 0   | 0.976   | 0.015  | 0     | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0   |     | 0.893   |        | 0     | 0   | 0   | 0   |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 18.495  | 19.273 | 0.004 | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 0.597   | 0.642  | 0     | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 1600    | 1670   | 0.346 | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 1.49    | 1.43   | 0.004 | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0       | 0.015  | 0     | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.154 M3/S  
 TOTAL DISCHARGE, 3270 DAM3  
 MAXIMUM DAILY DISCHARGE, 1.49 M3/S ON MAY 22  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

A-MANUAL GAUGE

APPROVED BY: B. Johnson FOR CANADA

Jac. B. Moulard FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK. 10:27

RICHARDSON DITCH NEAR CONSUL

STATION NO. 11AB058

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR | MAY     | JUN    | JUL | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|---------|--------|-----|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0       | 0.942  | 0   | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0   | 0   | 0       | 0.894  | 0   | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0   | 0   | 0       | 0.843  | 0   | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0   | 0   | 0       | 0.835  | 0   | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0   | 0   | 0       | 0.835  | 0   | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0   | 0   | 0       | 0.836  | 0   | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0   | 0   | 0       | 0.844  | 0   | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0   | 0   | 0       | 0.819  | 0   | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0   | 0   | 0       | 0.905  | 0   | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0   | 0   | 0       | 0.781  | 0   | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0   | 0   | 0       | 0.705  | 0   | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0   | 0   | 0       | 0.348  | 0   | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0   | 0   | 0       | 0.441  | 0   | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0   | 0   | 0       | 0.380  | 0   | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0   | 0   | 0       | 0.070  | 0   | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0   | 0   | 0.350 A | 0      | 0   | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0   | 0   | 0.643   | 0      | 0   | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0   | 0   | 0.626   | 0      | 0   | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0   | 0   | 0.750   | 0      | 0   | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0   | 0   | 0.780   | 0      | 0   | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0   | 0   | 0.698   | 0      | 0   | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0   | 0   | 0.689   | 0      | 0   | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0   | 0   | 0.676   | 0      | 0   | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0   | 0   | 0.648   | 0      | 0   | 0   | 0   | 0   |     |     | 24    |
| 25    |     |     | 0   | 0   | 0.626   | 0      | 0   | 0   | 0   | 0   |     |     | 25    |
| 26    |     |     | 0   | 0   | 0.600   | 0      | 0   | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0   | 0   | 0   | 0.585   | 0      | 0   | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0   | 0   | 0   | 0.585   | 0      | 0   | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0   | 0   | 0.578   | 0      | 0   | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0   | 0   | 0.592   | 0      | 0   | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0   |     | 0.698   | 0      | 0   | 0   | 0   | 0   |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 10.134  | 10.478 | 0   | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 0.327   | 0.349  | 0   | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 876     | 905    | 0   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 0.780   | 0.942  | 0   | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0       | 0      | 0   | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.084 M3/S  
 TOTAL DISCHARGE, 1780 DAM3  
 MAXIMUM DAILY DISCHARGE, 0.942 M3/S ON JUN 1  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

A-MANUAL GAUGE

APPROVED BY: *[Signature]* FOR CANADA

*[Signature]* FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK. 10:09

MCKINNON DITCH NEAR CONSUL

STATION NO. 11AB044

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR | MAY     | JUN    | JUL | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|---------|--------|-----|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0       | 0.841  | 0   | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0   | 0   | 0       | 0.838  | 0   | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0   | 0   | 0       | 0.531  | 0   | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0   | 0   | 0       | 0.417  | 0   | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0   | 0   | 0       | 0.440  | 0   | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0   | 0   | 0       | 0.371  | 0   | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0   | 0   | 0       | 0.382  | 0   | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0   | 0   | 0       | 0.689  | 0   | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0   | 0   | 0       | 0.899  | 0   | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0   | 0   | 0       | 1.20   | 0   | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0   | 0   | 0       | 1.25   | 0   | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0   | 0   | 0       | 1.30   | 0   | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0   | 0   | 0       | 1.41   | 0   | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0   | 0   | 0       | 1.40   | 0   | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0   | 0   | 0       | 1.14   | 0   | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0   | 0   | 0       | 0.694  | 0   | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0   | 0   | 0       | 0.266  | 0   | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0   | 0   | 0.084 A | 0.259  | 0   | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0   | 0   | 0.127   | 0.229  | 0   | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0   | 0   | 0.126   | 0.142  | 0   | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0   | 0   | 0.127   | 0.056  | 0   | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0   | 0   | 0.128   | 0.008  | 0   | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0   | 0   | 0.199   | 0.001  | 0   | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0   | 0   | 0.431   | 0      | 0   | 0   | 0   | 0   |     |     | 24    |
| 25    |     |     | 0   | 0   | 0.607   | 0      | 0   | 0   | 0   | 0   |     |     | 25    |
| 26    |     |     | 0   | 0   | 0.619   | 0      | 0   | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0   | 0   | 0   | 0.673   | 0      | 0   | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0   | 0   | 0   | 0.737   | 0      | 0   | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0   | 0   | 0.742   | 0      | 0   | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0   | 0   | 0.747   | 0      | 0   | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0   | 0   | 0.779   | 0      | 0   | 0   | 0   | 0   |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 6.126   | 14.773 | 0   | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 0.198   | 0.492  | 0   | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 529     | 1280   | 0   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 0.779   | 1.41   | 0   | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0       | 0      | 0   | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.085 M3/S  
 TOTAL DISCHARGE, 1810 DAM3  
 MAXIMUM DAILY DISCHARGE, 1.41 M3/S ON JUN 13  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

A-MANUAL GAUGE

APPROVED BY: B. Johnson FOR CANADA

Joe A. Moulton FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 13 1986  
 REGINA, SASK. 10:19

NASHLYN CANAL NEAR CONSUL

STATION NO. 11AB018

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR     | MAY     | JUN | JUL | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----|---------|---------|-----|-----|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0   | 0       | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0   | 0.058 A | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0   | 0.264   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0   | 0.280   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0   | 0.393   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0   | 0.637   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0   | 0.788   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0   | 0.811   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0   | 0.834   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0   | 0.797   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0   | 0.786   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0   | 0.810   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0   | 0.835   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0   | 0.823   | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0   | 0.875   | 0.228 A | 0   | 0   | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0   | 0.884   | 0.898   | 0   | 0   | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0   | 0.884   | 0.973   | 0   | 0   | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0   | 0.764   | 0.977   | 0   | 0   | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0   | 0.854   | 0.969   | 0   | 0   | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0   | 0.909   | 0.838   | 0   | 0   | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0   | 0.886   | 0.756   | 0   | 0   | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0   | 0.878   | 0.691   | 0   | 0   | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0   | 0.862   | 0.596   | 0   | 0   | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0   | 0.826   | 0.413   | 0   | 0   | 0   | 0   | 0   |     |     | 24    |
| 25    |     |     | 0   | 0.473   | 0.035   | 0   | 0   | 0   | 0   | 0   |     |     | 25    |
| 26    |     |     | 0   | 0.007   | 0.004   | 0   | 0   | 0   | 0   | 0   |     |     | 26    |
| 27    |     |     | 0   | 0.001   | 0.001   | 0   | 0   | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0   | 0   | 0       | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0   | 0       | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0   | 0       | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0   | 0       | 0       | 0   | 0   | 0   | 0   | 0   |     |     | 31    |
| TOTAL |     |     | 0   | 17.219  | 7.379   | 0   | 0   | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0   | 0.574   | 0.238   | 0   | 0   | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0   | 1490    | 638     | 0   | 0   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0   | 0.909   | 0.977   | 0   | 0   | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0   | 0       | 0       | 0   | 0   | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.100 M3/S  
 TOTAL DISCHARGE, 2130 DAM3  
 MAXIMUM DAILY DISCHARGE, 0.977 M3/S ON MAY 18  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

A-MANUAL GAUGE

APPROVED BY: B. Johnson FOR CANADA

Jan A. Mansland FOR THE UNITED STATES

Minor Diversions  
Battle Creek Basin (Sask)  
1985

| File No. | Ditch Owner             | Point of Diversion | Diverting from   | Approximate dam <sup>3</sup> diverted |        |
|----------|-------------------------|--------------------|------------------|---------------------------------------|--------|
|          |                         |                    |                  | June 30                               | Oct 31 |
| 52       | Battle Creek Ranch      | NE 9-6-29-3        | Battle Creek     | 44                                    | 44     |
| 59       | Rodger Parsonage        | NE 6-7-28-3        | Six Mile Coulee  | 148                                   | 0      |
| 5527     | (two projects)          | NE 1-7-29-3        | coulee           | -                                     | -      |
| 71       | Richard F. Nuttal       | SE 22-7-29-3       | coulee           | 52                                    | 0      |
| 73       | Richard F. Nuttal       | NW 23-7-29-3       | Battle Creek     | 10                                    | 0      |
| 77       | James F. Leslie         | SW 12-8-29-3       | Six Mile Coulee  | 0                                     | 0      |
| 86       | Parsonage Ranch Co.     | NW 34-5-28-3       | Battle Creek     | 107                                   | 0      |
| 110      | Arnold D. Mackie        | SW 29-5-28-3       | Battle Creek     | 65                                    | 0      |
| 181      | Donald Parsonage        | NE 3-7-28-3        | Menin Coulee     | 11                                    | 0      |
| 190      | Graham Wilkes Parsonage | SE 4-6-29-3        | Battle Creek     | 257                                   | 0      |
| 219      | Arnold D. Mackie        | NW 34-5-28-3       | Halfway Coulee   | 47                                    | 0      |
| 237      | Rodger Parsonage        | NW 3-7-28-3        | Halfway Coulee   | 12                                    | 0      |
| 323      | Ben Funk                | NE 6-3-26-3        | Stenhouse Coulee | 0                                     | 0      |
| 338      | Donald E. Schmidt       | SE 31-2-26-3       | Battle Creek     | 15                                    | 0      |
| 8559     | (two projects)          | SW 31-2-26-3       | Battle Creek     | -                                     | -      |
| 358      | Paul Neitz              | SW 18-6-27-3       | Rough Coulee     | 44                                    | 0      |
| 606      | Gary Penner             | NW 18-4-25-3       | coulee           | 20                                    | 0      |
| 622      | John Frank              | NW 34-2-27-3       | coulee           | 0                                     | 0      |
| 900      | (three projects)        | NW 3-3-27-3        | Swede Coulee     | -                                     | -      |
| 8228     |                         | SE 2-3-27-3        | Battle Creek     | -                                     | -      |
| 710      | James W. Swihart        | SE 17-3-26-3       | coulee           | 0                                     | 0      |
| 758      | Worthy Grazing Co-op    | NE 36-2-28-3       | coulee           | 0                                     | 0      |
| 765      | Hazel Sveund            | SE 9-5-25-3        | coulee           | 0                                     | 0      |
| 5420     | (three projects)        |                    |                  | -                                     | -      |
| 6308     |                         |                    |                  | -                                     | -      |
| 985      | Edward Glagau           | NW 23-3-27-3       | coulee           | 0                                     | 0      |

Minor Diversions  
Battle Creek Basin (Sask)  
1985

| File No. | Ditch Owner           | Point of Diversion | Diverting from   | Approximate dam <sup>3</sup> diverted |        |
|----------|-----------------------|--------------------|------------------|---------------------------------------|--------|
|          |                       |                    |                  | June 30                               | Oct 31 |
| 1247     | Malcolm McCuaig       | SE 3-4-27-3        | coulee           | 0                                     | 0      |
| 1499     | Gordon & Edith Reamer | NE 21-3-26-3       | coulee           | 0                                     | 0      |
| 1753     | William Behrman       | SW 23-4-26-3       |                  | 0                                     | 0      |
| 1754     | William Behrman       | SE 22-4-26-3       | Bushy Coulee     | 0                                     | 0      |
| 1786     | Blair O. Backman      | SE 16-5-26-3       | coulee           | 0                                     | 0      |
| 2124     | Hazel Sveund          | SW 9-5-25-3        | coulee           | 0                                     | 0      |
| 5421     | (three projects)      | NE 9-5-25-3        | coulee           | -                                     | -      |
| 5422     |                       | SW 9-5-25-3        | Battle Creek     | -                                     | -      |
| 2159     | Patrick C. Heglund    | SE 15-4-27-3       | coulee           | 0                                     | 0      |
| 2282     | Howard C. Olson       | NW 10-5-25-3       | coulee           | 0                                     | 0      |
| 2283     | (two projects)        | NW 10-5-25-3       | coulee           | -                                     | -      |
| 2500     | Larry McMillan        | SW 23-4-27-3       |                  | 0                                     | 0      |
| 2655     | Dick Reesor           | SE 8-4-26-3        | coulee           | 0                                     | 0      |
| 2755     | Ed Sander             | SW 5-5-25-3        | a creek          | 0                                     | 0      |
| 2841     | Malcolm McCuaig       | SW 2-4-27-3        | coulee           | 0                                     | 0      |
| 2954     | Donald E. Schmidt     | NW 31-2-26-3       | Battle Creek     | 1                                     | 0      |
| 5784     | (three projects)      | NE 31-2-26-3       | coulee           | -                                     | -      |
| 10138    |                       | NW 31-2-26-3       | Stenhouse Coulee | -                                     | -      |
| 3586     | William Brown         | SW 24-5-26-3       | coulee           | 7                                     | 0      |
| 5874     | (two projects)        | SW 24-5-26-3       | coulee           | -                                     | -      |
| 3733     | James R. Black        | SE 14-6-28-3       | coulee           | 16                                    | 0      |
| 11866    | (two projects)        | NW 14-6-28-3       | Battle Creek     | -                                     | -      |
| 3855     | Edward Glagau         | SW 20-3-27-3       | coulee           | 0                                     | 0      |
| 3930     | Joseph J. Godich      | NW 22-3-27-3       | coulee           | 0                                     | 0      |
| 3931     | (two projects)        | NW 22-3-27-3       | coulee           | -                                     | -      |
| 4492     | Adam R. Tittle        | NW 30-2-26-3       | coulee           | 0                                     | 0      |



Minor Diversions  
Battle Creek Basin (Sask)  
1985

| File No. | Ditch Owner           | Point of Diversion | Diverting from | Approximate dam <sup>3</sup> diverted |        |
|----------|-----------------------|--------------------|----------------|---------------------------------------|--------|
|          |                       |                    |                | June 30                               | Oct 31 |
| 4851     | Donald E. Schmidt     | SE 5-3-26-3        | coulee         | 19                                    | 0      |
| 8647     | (four projects)       | NW 32-2-26-3       | Coulee No. 1   | -                                     | -      |
| 8648     |                       | NW 32-3-26-3       | Coulee No. 2   | -                                     | -      |
| 8649     |                       | NW 32-2-26-3       | Coulee No. 3   | -                                     | -      |
| 4942     | Brian Pridmore        | NE 29-5-27-3       | coulee         | 0                                     | 0      |
| 5193     | Roger C. Parsonage    | NW 11-7-29-3       | Mull Creek     | 17                                    | 0      |
| 9917     | (two projects)        | NW 11-7-29-3       | Mull Creek     | -                                     | -      |
| 5263     | Marvin Rabe           | NE 36-4-26-3       | coulee         | 0                                     | 0      |
| 5292     | George A. Sanderson   | NE 1-4-27-3        | coulee         | 0                                     | 0      |
| 5293     | Edward Glagau         | SW 23-3-27-3       | coulee         | 0                                     | 0      |
| 5441     | Joseph Kisell Jr.     | NW 15-3-27-3       | Battle Creek   | 0                                     | 0      |
| 5442     | Joseph Kisell Jr.     | SE 16-3-27-3       | Kompan Coulee  | 0                                     | 0      |
| 5453     | Dora Palmer           | NE 26-4-26-3       | coulee         | 0                                     | 0      |
| 5455     | Bruce Wenass          | NW 17-5-25-3       | coulee         | 0                                     | 0      |
| 5512     | Notukeu Grazing Co-op | NE 28-3-27-3       | Battle Creek   | 0                                     | 0      |
| 5528     | Louis Stetar          | NE 16-3-27-3       | coulee         | 2                                     | 0      |
| 5529     | (two projects)        | NE 16-3-37-3       | Kompan Coulee  | -                                     | -      |
| 5539     | Clare C. Backman      | SE 15-5-26-3       | coulee         | 0                                     | 0      |
| 5540     | (two projects)        | SW 15-5-26-3       | coulee         | -                                     | -      |
| 5557     | Otto M. Glagau        | NE 1-5-27-3        | coulee         | 0                                     | 0      |
| 5609     | Brian Pridmore        | NW 28-5-27-3       | coulee         | 0                                     | 0      |
| 5691     | Kenneth D. Reynolds   | NE 35-3-28-3       | coulee         | 0                                     | 0      |
| 5940     | Edward Glagau         | NW 15-3-27-3       | Battle Creek   | 44                                    | 0      |
| 6139     | Terry Reamer          | NE 16-3-26-3       | coulee         | 0                                     | 0      |
| 6150     | Joseph Kisell Jr.     | SW 16-3-27-3       | Kisell Coulee  | 0                                     | 0      |

Minor Diversions  
Battle Creek Basin (Sask)  
1985

| File No. | Ditch Owner             | Point of Diversion | Diverting from    | Approximate dam3 diverted |        |
|----------|-------------------------|--------------------|-------------------|---------------------------|--------|
|          |                         |                    |                   | June 30                   | Oct 31 |
| 6317     | Roland B. Agar          | NW 25-5-29-3       | coulee            | 26                        | 0      |
| 6387     | Kenneth D. Reynolds     | SE 35-3-28-3       | coulee            | 0                         | 0      |
| 6714     | Ben Funk                | NE 4-3-26-3        | coulee            | 0                         | 0      |
| 6719     | (three projects)        | SE 4-3-26-3        | coulee            | -                         | -      |
| 8314     |                         | SE 4-3-26-3        | coulee            | -                         | -      |
| 6744     | Graham Wilkes Parsonage | NW 33-5-29-3       | Battle Creek      | 11                        | 0      |
| 6795     | John Frank              | SW 2-3-27-3        | Battle Creek      | 0                         | 0      |
| 7144     | Peter Halyung           | NE 5-3-25-3        | Fothergill Coulee | 0                         | 0      |
| 7241     | Lloyd W. Heglund        | NW 19-4-26-3       | coulee            | 0                         | 0      |
| 8056     | Louis Stetar            | SE 21-3-27-3       | coulee            | 12                        | 0      |
| 8107     | Willis L. Pederson      | SW 13-5-26-3       | coulee            | 0                         | 0      |
| 8192     | Marvin Rabe             | NE 36-4-26-3       | coulee            | 0                         | 0      |
| 8336     | Paul Harmon             | NE 19-2-25-3       | coulee            | 0                         | 0      |
| 8998     | (two projects)          | SE 19-2-25-3       | coulee            | -                         | -      |
| 8498     | Joseph Godich           | NE 22-3-27-3       | Battle Creek      | 0                         | 0      |
| 8575     | Donald E. Schmidt       | NW 25-2-27-3       | Coulee No. 1      | 19                        | 0      |
| 8646     | Donald E. Schmidt       | SE 32-2-26-3       | coulee            | 6                         | 0      |
| 9260     | Gaff Ranch Ltd.         | SW 27-5-29-3       | coulee            | 0                         | 0      |
| 9321     | Samuel R. Demchenko     | NW 8-7-28-3        | coulee            | 0                         | 0      |
| 9344     | Paul Harmon             | SE 20-2-25-3       | Bellamy Coulee    | 0                         | 0      |
| 9639     | Gordon P. Pettyjohn     | SW 18-6-28-3       | coulee            | 0                         | 0      |
| 9679     | George Stovka           | SW 14-3-26-3       | coulee            | 0                         | 0      |
| 9759     | Clifford J. Smith       | NE 34-4-27-3       | coulee            | 0                         | 0      |
| 9760     | (two projects)          | NW 34-4-27-3       | coulee            | -                         | -      |
| 9803     | Parsonage Ranching Co.  | SW 33-6-29-3       | Battle Creek      | 14                        | 14     |

Minor Diversions  
Battle Creek Basin (Sask)  
1985

| File No.                                      | Ditch Owner        | Point of Diversion | Diverting from | Approximate dam3 diverted |        |
|---|--------------------|--------------------|----------------|---------------------------|--------|
|   |                    |                    |                | June 30                   | Oct 31 |
| 9811  | Marvin Rabe        | NW 31-4-25-3       | coulee         | 0                         | 0      |
| 10015   | John Huery         | SW 33-2-25-3       | coulee         | 0                         | 0      |
| 10340   | Paul Neitz         | NE 4-6-27-3        | coulee         | 2                         | 0      |
| 11191   | James W. McConnell | NE 25-5-26-3       | coulee         | 0                         | 0      |
| 11192   | John E. McConnell  | SE 36-5-26-3       | coulee         | 0                         | 0      |
| 11446   | John Huery         | NW 34-2-25-3       | Battle Creek   | 0                         | 0      |
| 11805   | Ed Sandor          | SE 25-5-26-3       |                | 0                         | 0      |
| 13756   | Paul Neitz         | NW 4-6-27-3        | Battle Creek   | 28                        | 0      |
| 14422   | James E. Pridmore  | SW 35-5-28-3       | Battle Creek   | 44                        | 0      |
|   | Shepherd Ditch     |                    |                | 911                       | 0      |
| Total minor diversions in Saskatchewan (dam3) |                    |                    |                | 2011                      | 58     |
| Plus one project in Alberta                   |                    |                    |                |                           |        |
| 232   | Keith W. Reesor    | NW 13-8- 1-4       | Grayburn Creek | 0                         | 0      |
| Total minor diversions in Canada (dam3)       |                    |                    |                | 2011                      | 58     |

Total minor diversions for the year = 2011 + 58 = 2070

Domestic usage = 39% of total minor diversions  
= 39% of 2070  
= 807 dam3

Total usage in Canada = minor diversions + domestic use  
= 2070 + 807  
= 2877 dam3

WATER SURVEY OF CANADA  
 JAN 20 1986  
 REGINA, SASK.

FRENCHMAN RIVER AT INTERNATIONAL BOUNDARY

STATION NO. 11AC041

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR   | APR     | MAY    | JUN    | JUL   | AUG   | SEP     | OCT     | NOV | DEC | DAY   |
|-------|-----|-----|-------|---------|--------|--------|-------|-------|---------|---------|-----|-----|-------|
| 1     |     |     | 0     | 0.154   | 2.05   | 2.39   | 0.109 | 0     | 0       | 0.017 E |     |     | 1     |
| 2     |     |     | 0     | 0.334   | 1.90   | 1.87   | 0.096 | 0     | 0       | 0       |     |     | 2     |
| 3     |     |     | 0     | 0.567   | 2.18   | 1.76   | 0.070 | 0     | 0       | 0       |     |     | 3     |
| 4     |     |     | 0     | 1.50    | 3.99   | 1.57   | 0.050 | 0     | 0       | 0       |     |     | 4     |
| 5     |     |     | 0     | 3.37    | 6.04   | 1.44   | 0.022 | 0     | 0       | 0       |     |     | 5     |
| 6     |     |     | 0     | 2.80    | 6.34   | 1.26   | 0.018 | 0     | 0       | 0       |     |     | 6     |
| 7     |     |     | 0     | 2.39    | 6.37   | 1.11   | 0.067 | 0     | 0.303   | 0.007   |     |     | 7     |
| 8     |     |     | 0     | 1.69    | 6.46   | 1.08   | 0.026 | 0     | 0.085   | 0.009   |     |     | 8     |
| 9     |     |     | 0     | 2.61    | 6.70   | 1.00   | 0.009 | 0     | 0.025   | 0.009   |     |     | 9     |
| 10    |     |     | 0     | 5.40    | 6.92   | 0.972  | 0.003 | 0     | 0.027   | 0.009   |     |     | 10    |
| 11    |     |     | 0     | 7.28    | 6.66   | 0.962  | 0     | 0     | 0.049   | 0.007   |     |     | 11    |
| 12    |     |     | 0     | 8.59    | 6.48   | 0.922  | 0     | 0     | 0.109   | 0       |     |     | 12    |
| 13    |     |     | 0.015 | 4.68    | 5.36   | 0.873  | 0     | 0.029 | 0.145   | 0       |     |     | 13    |
| 14    |     |     | 0.058 | 1.65    | 1.98   | 0.855  | 0     | 0.034 | 0.044   | 0       |     |     | 14    |
| 15    |     |     | 0.039 | 1.61    | 1.57   | 0.855  | 0     | 0.026 | 0.042   | 0       |     |     | 15    |
| 16    |     |     | 0.022 | 1.89    | 1.49   | 0.893  | 0     | 0.026 | 0.039   | 0.032   |     |     | 16    |
| 17    |     |     | 0.024 | 2.39    | 1.56   | 0.818  | 0     | 0.026 | 0.048   | 0.022   |     |     | 17    |
| 18    |     |     | 0.020 | 3.58    | 2.11   | 0.657  | 0     | 0.025 | 0.099   | 0.010   |     |     | 18    |
| 19    |     |     | 0.010 | 5.11    | 2.24   | 0.351  | 0     | 0.015 | 0.301   | 0.011   |     |     | 19    |
| 20    |     |     | 0     | 7.92    | 2.13   | 0.151  | 0     | 0.011 | 0.127   | 0.005   |     |     | 20    |
| 21    |     |     | 0     | 9.51    | 2.27   | 0.127  | 0     | 0.006 | 0.087   | 0.006   |     |     | 21    |
| 22    |     |     | 0     | 11.8    | 2.26   | 0.201  | 0     | 0.005 | 0.101   | 0.003 E |     |     | 22    |
| 23    |     |     | 0.117 | 15.7    | 2.27   | 0.151  | 0     | 0.017 | 0.101   | 0       |     |     | 23    |
| 24    |     |     | 0.505 | 7.72    | 2.15   | 0.096  | 0     | 0.024 | 0.104   | 0       |     |     | 24    |
| 25    |     |     | 0.363 | 2.23    | 2.29   | 0.096  | 0     | 0.020 | 0.075 E | 0.039   |     |     | 25    |
| 26    |     |     | 0.205 | 3.25    | 1.89   | 0.112  | 0     | 0.009 | 0.063 E | 0.040   |     |     | 26    |
| 27    |     |     | 0.039 | 2.67    | 1.61   | 0.133  | 0     | 0.006 | 0.020 E | 0.017   |     |     | 27    |
| 28    |     |     | 0.381 | 2.18    | 1.71   | 0.130  | 0     | 0.005 | 0.035 E | 0.012   |     |     | 28    |
| 29    |     |     | 0.109 | 2.26    | 1.69   | 0.072  | 0     | 0.003 | 0.026 E | 0.010   |     |     | 29    |
| 30    |     |     | 0.217 | 2.24    | 2.08   | 0.046  | 0     | 0.002 | 0.016 E | 0.010   |     |     | 30    |
| 31    |     |     | 0.413 |         | 2.27   |        | 0     | 0     |         | 0.034   |     |     | 31    |
| TOTAL |     |     | 2.537 | 125.075 | 103.02 | 22.953 | 0.470 | 0.289 | 2.071   | 0.309   |     |     | TOTAL |
| MEAN  |     |     | 0.082 | 4.17    | 3.32   | 0.765  | 0.015 | 0.009 | 0.069   | 0.010   |     |     | MEAN  |
| DAM3  |     |     | 219   | 10800   | 8900   | 1980   | 40.6  | 25.0  | 179     | 26.7    |     |     | DAM3  |
| MAX   |     |     | 0.505 | 15.7    | 6.92   | 2.39   | 0.109 | 0.034 | 0.303   | 0.040   |     |     | MAX   |
| MIN   |     |     | 0     | 0.154   | 1.49   | 0.046  | 0     | 0     | 0       | 0       |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN DISCHARGE, 1.05 M<sup>3</sup>/S

TOTAL DISCHARGE, 22200 DAM3

MAXIMUM DAILY DISCHARGE, 15.7 M<sup>3</sup>/S ON APR 23

MINIMUM DAILY DISCHARGE, 0 M<sup>3</sup>/S ON MAR 1

MAXIMUM INSTANTANEOUS DISCHARGE 16.5 M<sup>3</sup>/S AT 1630 CST ON APRIL 23

APPROVED BY:

*J. A. Moulton*  
*J. Bolton*

E-ESTIMATED  
 FOR THE UNITED STATES

FOR CANADA

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB     | MAR     | APR     | MAY   | JUN   | JUL | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|---------|---------|---------|-------|-------|-----|-----|-----|-----|-----|-----|-------|
| 1     |     |         | 0 B     | 1.28 B  | 0.100 | 0     | 0   | 0   | 0   | 0   |     |     | 1     |
| 2     |     |         | 0 B     | 4.42 B  | 0.036 | 0     | 0   | 0   | 0   | 0   |     |     | 2     |
| 3     |     |         | 0 B     | 5.44 B  | 0.010 | 0     | 0   | 0   | 0   | 0   |     |     | 3     |
| 4     |     |         | 0 B     | 0.883 B | 0     | 0     | 0   | 0   | 0   | 0   |     |     | 4     |
| 5     |     |         | 0 B     | 1.35 B  | 0     | 0     | 0   | 0   | 0   | 0   |     |     | 5     |
| 6     |     |         | 0 B     | 0.949   | 0     | 0     | 0   | 0   | 0   | 0   |     |     | 6     |
| 7     |     |         | 0 B     | 0.730   | 0     | 0     | 0   | 0   | 0   | 0   |     |     | 7     |
| 8     |     |         | 0 B     | 0.409   | 0     | 0     | 0   | 0   | 0   | 0   |     |     | 8     |
| 9     |     |         | 0 B     | 0.241   | 0     | 0     | 0   | 0   | 0   | 0   |     |     | 9     |
| 10    |     |         | 0 B     | 0.509   | 0.031 | 0     | 0   | 0   | 0   | 0   |     |     | 10    |
| 11    |     |         | 0 B     | 1.76    | 0.059 | 0     | 0   | 0   | 0   | 0   |     |     | 11    |
| 12    |     |         | 0 B     | 2.60    | 0.087 | 0     | 0   | 0   | 0   | 0   |     |     | 12    |
| 13    |     |         | 0 B     | 2.22    | 0.563 | 0     | 0   | 0   | 0   | 0   |     |     | 13    |
| 14    |     |         | 0 B     | 6.05    | 2.10  | 0     | 0   | 0   | 0   | 0   |     |     | 14    |
| 15    |     |         | 0 B     | 4.74    | 1.34  | 0     | 0   | 0   | 0   | 0   |     |     | 15    |
| 16    |     |         |         | 0.016 B | 2.17  | 0.666 | 0   | 0   | 0   | 0   |     |     | 16    |
| 17    |     |         |         | 0.047 B | 1.44  | 0.388 | 0   | 0   | 0   | 0   |     |     | 17    |
| 18    |     |         |         | 0.093 B | 1.28  | 0.247 | 0   | 0   | 0   | 0   |     |     | 18    |
| 19    |     |         |         | 0.135 B | 0.457 | 0.134 | 0   | 0   | 0   | 0   |     |     | 19    |
| 20    |     | 0 B     | 0.179 B | 0       | 0.115 | 0     | 0   | 0   | 0   | 0   |     |     | 20    |
| 21    |     | 0 B     | 0.605 B | 0       | 0.094 | 0     | 0   | 0   | 0   | 0   |     |     | 21    |
| 22    |     | 0 B     | 0.092 B | 0       | 0.091 | 0     | 0   | 0   | 0   | 0   |     |     | 22    |
| 23    |     | 0 B     | 0.047 B | 0       | 0.084 | 0     | 0   | 0   | 0   | 0   |     |     | 23    |
| 24    |     | 0 B     | 0.041 B | 0       | 0.079 | 0     | 0   | 0   | 0   | 0   |     |     | 24    |
| 25    |     | 0 B     | 0.041 B | 0       | 0.109 | 0     | 0   | 0   | 0   | 0   |     |     | 25    |
| 26    |     | 0.002 B | 0.137 B | 0       | 0.111 | 0     | 0   | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0.005 B | 0.173 B | 0.007   | 0.107 | 0     | 0   | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0.001 B | 0.114 B | 0.341   | 0.065 | 0     | 0   | 0   | 0   | 0   |     |     | 28    |
| 29    |     |         | 0.204 B | 0.646   | 0.034 | 0     | 0   | 0   | 0   | 0   |     |     | 29    |
| 30    |     |         | 0.178 B | 0.284   | 0.189 | 0     | 0   | 0   | 0   | 0   |     |     | 30    |
| 31    |     |         | 0.059 B | 0       | 0     | 0     | 0   | 0   | 0   | 0   |     |     | 31    |
| TOTAL |     |         | 2.161   | 40.206  | 6.839 | 0     | 0   | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |         | 0.070   | 1.34    | 0.221 | 0     | 0   | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |         | 187     | 3470    | 591   | 0     | 0   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |         | 0.605   | 6.05    | 2.10  | 0     | 0   | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |         | 0       | 0       | 0     | 0     | 0   | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.201 M<sup>3</sup>/S  
 TOTAL DISCHARGE, 4250 DAM3  
 MAXIMUM DAILY DISCHARGE, 6.05 M<sup>3</sup>/S ON APR 14  
 MINIMUM DAILY DISCHARGE, 0 M<sup>3</sup>/S ON MAR 1

B-ICE CONDITIONS

APPROVED BY: *[Signature]* FOR CANADA

*[Signature]* FOR THE UNITED STATES

CYPRESS LAKE NATURAL OVERFLOW FOR 1985  
(All quantities in dam<sup>3</sup> except where noted)

| 1                     | 2       | 3      | 4                                | 5                                   | 6              | 7                       | 8                     | 9   | 10   | 11              | 12   | 13  |  |
|-----------------------|---------|--------|----------------------------------|-------------------------------------|----------------|-------------------------|-----------------------|---|--|-----------------|--|---|--|
|                       |         |        | Net Diversion to Storage         |                                     |                |                         |                       |   |  |                 | Natural Storage<br>in Reservoir<br>Previous Period<br>and<br>Natural Inflow<br>(From 11<br>Reservoir<br>at end<br>of Period<br>(11+12) | Natural<br>Overflow<br>for<br>Period<br>in<br>Storage<br>Rating<br>of Period<br>(11+12) |  |
| Period                | End     | Period | From<br>Battle<br>Creek<br>Basin | From<br>Frenchman<br>River<br>Basin | Total<br>(4+5) | Cumulated<br>Sum col. 6 | Diverted<br>Carryover | Natural<br>Contents<br>of<br>Reservoir<br>compute | Natural<br>Inflow<br>for Current<br>Period<br>(computed<br>from 9<br>from 10 and 13) |                 |  |   |  |
| Elevation<br>(metres) | End     | End    | Basin                            | Basin                               | (4+5)          | Sum col. 6              | Carryover             | (3-7-8)   | from 9   | from 10 and 13) | Table)   | (11+12)   |  |
| Mar 1                 | 971.360 | 29 335 | 0                                | -2                                  | -2             | -2                      | 29 116                | 221   |  |                 |  |   |  |
| 11                    | 971.362 | 29 372 | 0                                | -3                                  | -3             | -5                      | 29 116                | 261   |  |                 |  |   |  |
| 22                    | 971.381 | 29 719 | 10                               | 60                                  | 70             | 65                      | 29 116                | 538   |  |                 |  |   |  |
| Apr 1                 | 971.482 | 31 621 | 142                              | 137                                 | 279            | 344                     | 29 116                | 2161  |  |                 |  |   |  |
| 11                    | 971.630 | 34 423 | 210                              | 1043                                | 1253           | 1597                    | 29 116                | 3710  |  |                 |  |   |  |
| 21                    | 971.950 | 40 624 | 4628                             | 1622                                | 6250           | 7847                    | 29 116                | 3661  |  |                 |  |   |  |
| May 1                 | 971.968 | 40 975 | 31                               | -115                                | -84            | 7763                    | 29 116                | 4096  | Maximum natural storage for the year was   |                 |  |   |  |
| 11                    | 971.954 | 40 702 | 0                                | -125                                | -125           | 7638                    | 29 116                | 3948  | less than 40 247 dam <sup>3</sup> , the point at which                               |                 |  |   |  |
| 22                    | 971.903 | 39 707 | -759                             | 477                                 | -282           | 7356                    | 29 116                | 3235  | natural flow would occur. Therefore  |                 |  |   |  |
| Jun 1                 | 971.836 | 38 400 | -956                             | 55                                  | -901           | 6455                    | 29 166                | 2829  | there was no natural flow in 1985.   |                 |  |   |  |
| 11                    | 971.742 | 36 567 | -1140                            | -4                                  | -1144          | 5311                    | 29 116                | 2140  |  |                 |  |   |  |
| 21                    | 971.617 | 34 177 | -1495                            | -14                                 | -1509          | 3802                    | 29 116                | 1259  |  |                 |  |   |  |
| Jul 1                 | 971.533 | 32 587 | -1282                            | -156                                | -1438          | 2364                    | 29 116                | 1107  |  |                 |  |   |  |
| 11                    | 971.391 | 29 902 | -716                             | -1                                  | -717           | 1647                    | 29 116                | (-861) 0  |  |                 |  |   |  |
| 22                    | 971.339 | 28 951 | -3                               | 0                                   | -3             | 1644                    | 29 116                | (-1809) 0   |  |                 |  |   |  |
| Aug 1                 | 971.279 | 27 854 | -3                               | 0                                   | -3             | 1641                    | 29 116                | (-2903) 0   |  |                 |  |   |  |
| 11                    | 971.243 | 27 195 | -3                               | 0                                   | -3             | 1638                    | 29 116                | (-3559) 0   | Total storage on Oct 31/84   |                 | 29116  |   |  |
| 22                    | 971.227 | 26 903 | 0                                | 0                                   | 0              | 1638                    | 29 116                | (-3851) 0   | Natural storage on Oct 31/84   |                 | 0  |   |  |
| Sep 1                 | 971.189 | 26 208 | 0                                | 0                                   | 0              | 1638                    | 29 116                | (-4546) 0   | Diverted carryover to Mar 1/85   |                 | 29116  |   |  |
| 11                    | 971.191 | 26 244 | 0                                | 0                                   | 0              | 1638                    | 29 116                | (-4510) 0   |  |                 |  |   |  |
| 21                    | 971.192 | 26 262 | 0                                | -15                                 | -15            | 1623                    | 29 116                | (-4477) 0   |  |                 |  |   |  |
| Oct 1                 | 971.204 | 26 482 | 219                              | -22                                 | 197            | 1820                    | 29 116                | (-4454) 0   |  |                 |  |   |  |
| 11                    | 971.211 | 26 610 | 88                               | -30                                 | 58             | 1878                    | 29 116                | (-4384) 0   | Over winter storage  |                 | 219  |   |  |
| 22                    | 971.215 | 26 683 | 95                               | -43                                 | 52             | 1930                    | 29 116                | (-4363) 0   |  |                 |  |   |  |
| 31                    | 971.210 | 26 592 | 139                              | -31                                 | 108            | 2038                    | 29 116                | (-4562) 0   |  |                 |  |   |  |
| Total                 |         |        | -795                             | 2833                                | 2038           |                         |                       |   |  |                 |  |   |  |

Approved by: *B. J. Lyon* for Canada

*Joe C. Monclaud* for the United States

WATER SURVEY OF CANADA  
 JAN 20 1986  
 REGINA, SASK. 16:00

CYPRESS LAKE EAST OUTFLOW CANAL


STATION NO. 11AC060

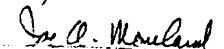
DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB     | MAR     | APR     | MAY   | JUN   | JUL   | AUG | SEP     | OCT     | NOV | DEC | DAY   |
|-------|-----|---------|---------|---------|-------|-------|-------|-----|---------|---------|-----|-----|-------|
| 1     |     |         | 0.003 B | 0.100 B | 0.482 | 0.011 | 0.017 | 0   | 0       |         |     |     |       |
| 2     |     |         | 0.003 B | 0.092 B | 0.466 | 0.008 | 0.008 | 0   | 0       | 0.026 E |     |     | 1     |
| 3     |     |         | 0.003 B | 0.066 B | 0.453 | 0.006 | 0.002 | 0   | 0       | 0.028 E |     |     | 2     |
| 4     |     |         | 0.003 B | 0.092 B | 0.277 | 0.006 | 0.002 | 0   | 0       | 0.029 E |     |     | 3     |
| 5     |     |         | 0.003 B | 0.476 B | 0.058 | 0.006 | 0.001 | 0   | 0       | 0.030 E |     |     | 4     |
|       |     |         |         |         |       |       |       |     |         | 0.032 E |     |     | 5     |
| 6     |     |         | 0.003 B | 0.536 B | 0.057 | 0.006 | 0     | 0   | 0       |         |     |     |       |
| 7     |     |         | 0.003 B | 0.715 B | 0.055 | 0.004 | 0     | 0   | 0       | 0.034 E |     |     |       |
| 8     |     |         | 0.003 B | 0.798 B | 0.055 | 0.003 | 0     | 0   | 0       | 0.035 E |     |     | 6     |
| 9     |     |         | 0.004 B | 0.754   | 0.054 | 0.002 | 0     | 0   | 0       | 0.037 E |     |     | 7     |
| 10    |     |         | 0.004 B | 0.715   | 0.054 | 0.002 | 0     | 0   | 0       | 0.039 A |     |     | 8     |
|       |     |         |         |         |       |       |       |     |         | 0.041   |     |     | 9     |
| 11    |     |         | 0.004 B | 0.379   | 0.053 | 0.002 | 0     | 0   | 0       |         |     |     | 10    |
| 12    |     |         | 0.005 B | 0.286   | 0.052 | 0.006 | 0     | 0   | 0       | 0.045   |     |     |       |
| 13    |     |         | 0.006 B | 0.224   | 0.054 | 0.004 | 0     | 0   | 0.013   | 0.050   |     |     | 11    |
| 14    |     |         | 0.010 B | 0.097   | 0.094 | 0.054 | 0     | 0   | 0.024   | 0.048   |     |     | 12    |
| 15    |     |         | 0.031 B | 0.067   | 0.019 | 0.018 | 0     | 0   | 0.021   | 0.045   |     |     | 13    |
|       |     |         |         |         |       |       |       |     |         | 0.043   |     |     | 14    |
| 16    |     |         | 0.045 B | 0.052   | 0.014 | 0.010 | 0     | 0   | 0.016   | 0.042   |     |     | 15    |
| 17    |     |         | 0.050 B | 0.056   | 0.012 | 0.011 | 0     | 0   | 0.014   | 0.041   |     |     |       |
| 18    |     |         | 0.042 B | 0.057   | 0.010 | 0.014 | 0     | 0   | 0.016   | 0.038   |     |     | 16    |
| 19    |     |         | 0.064 B | 0.204   | 0.009 | 0.014 | 0     | 0   | 0.019   | 0.042   |     |     | 17    |
| 20    |     | 0.003 B | 0.090 B | 0.576   | 0.010 | 0.010 | 0     | 0   | 0.024   | 0.047   |     |     | 18    |
|       |     |         |         |         |       |       |       |     |         |         |     |     | 19    |
| 21    |     | 0.003 B | 0.056 B | 0.572   | 0.010 | 0.026 | 0     | 0   | 0.023   | 0.048   |     |     | 20    |
| 22    |     | 0.003 B | 0.081 B | 0.420   | 0.012 | 0.252 | 0     | 0   | 0.021   | 0.048   |     |     |       |
| 23    |     | 0.003 B | 0.117 B | 0.294   | 0.014 | 0.266 | 0     | 0   | 0.024   | 0.051   |     |     | 21    |
| 24    |     | 0.003 B | 0.103 B | 0.195   | 0.017 | 0.251 | 0     | 0   | 0.028   | 0.047   |     |     | 22    |
| 25    |     | 0.003 B | 0.065 B | 0.100   | 0.019 | 0.259 | 0     | 0   | 0.035   | 0.049   |     |     | 23    |
|       |     |         |         |         |       |       |       |     |         |         |     |     | 24    |
| 26    |     | 0.003 B | 0.028 B | 0.095   | 0.021 | 0.275 | 0     | 0   | 0.030   | 0.045   |     |     | 25    |
| 27    |     | 0.003 B | 0.017 B | 0.147   | 0.021 | 0.273 | 0     | 0   | 0.023   | 0.046   |     |     |       |
| 28    |     | 0.003 B | 0.031 B | 0.146   | 0.014 | 0.154 | 0     | 0   | 0.023   | 0.038   |     |     | 26    |
| 29    |     |         | 0.049 B | 0.324   | 0.006 | 0.045 | 0     | 0   | 0.024 A | 0.031 A |     |     | 27    |
| 30    |     |         | 0.076 B | 0.506   | 0.005 | 0.018 | 0     | 0   | 0.025 E | 0.028 E |     |     | 28    |
| 31    |     |         | 0.100 B |         | 0.008 |       | 0     | 0   |         | 0.025 E |     |     | 29    |
|       |     |         |         |         |       |       |       |     |         |         |     |     | 30    |
| TOTAL |     |         | 1.102   | 9.141   | 2.485 | 2.016 | 0.030 | 0   | 0.403   | 1.228   |     |     | 31    |
| MEAN  |     |         | 0.036   | 0.305   | 0.080 | 0.067 | 0.001 | 0   | 0.013   | 0.040   |     |     | TOTAL |
| DAM3  |     |         | 95.2    | 790     | 215   | 174   | 2.59  | 0   | 34.8    | 106     |     |     | MEAN  |
| MAX   |     |         | 0.117   | 0.798   | 0.482 | 0.275 | 0.017 | 0   | 0.035   | 0.051   |     |     | DAM3  |
| MIN   |     |         | 0.003   | 0.052   | 0.005 | 0.002 | 0     | 0   | 0       | 0.025   |     |     | MAX   |
|       |     |         |         |         |       |       |       |     |         |         |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.067 M3/S  
 TOTAL DISCHARGE, 1420 DAM3  
 MAXIMUM DAILY DISCHARGE, 0.798 M3/S ON APR 8  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON JUL 6

A-MANUAL GAUGE  
 B-ICE CONDITIONS  
 E-ESTIMATED

APPROVED BY:  FOR CANADA

 FOR THE UNITED STATES

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

EASTEND RESERVOIR

11AC055

| ] PERIOD ] | ] MEAN ]<br>] ELEVATION ]<br>(M) | ] EVAPORATION ] |                         | ] ELEVATION AT ]                      |                                 | ] STORAGE AT ]                           |                                    | ] CHANGE IN ]<br>] STORAGE ]<br>(DAM3) |
|------------|----------------------------------|-----------------|-------------------------|---------------------------------------|---------------------------------|--|------------------------------------|--|
|            |                                  | ] PAN ]<br>(CM) | ] RESERVOIR ]<br>(DAM3) | ] BEGINNING ]<br>] OF PERIOD ]<br>(M) | ] END ]<br>] OF PERIOD ]<br>(M) | ] BEGINNING ]<br>] OF PERIOD ]<br>(DAM3) | ] END ]<br>] OF PERIOD ]<br>(DAM3) |  |
| 1          | 915.391                          | 0.0             | 0                       | 915.347                               | 915.481                         | 75                                       | 96                                 | 21                                     |
| 2          | 915.496                          | 0.0             | 0                       | 915.481                               | 915.473                         | 96                                       | 94                                 | -2                                     |
| 3          | 915.550                          | 0.0             | 0                       | 915.473                               | 915.723                         | 94                                       | 146                                | 52                                     |
| 4          | 916.195                          | 0.0             | 0                       | 915.723                               | 916.747                         | 146                                      | 616                                | 470                                    |
| 5          | 917.275                          | 2.0             | 15                      | 916.747                               | 917.828                         | 616                                      | 1766                               | 1150                                   |
| 6          | 917.889                          | 6.1             | 58                      | 917.828                               | 917.972                         | 1766                                     | 1961                               | 195                                    |
| 7          | 918.120                          | 4.7             | 49                      | 917.972                               | 918.247                         | 1961                                     | 2375                               | 414                                    |
| 8          | 918.304                          | 6.1             | 70                      | 918.247                               | 918.361                         | 2375                                     | 2558                               | 183                                    |
| 9          | 918.234                          | 7.6             | 84                      | 918.361                               | 917.749                         | 2558                                     | 1664                               | -894                                   |
| 10         | 917.188                          | 0.2             | 1                       | 917.749                               | 916.655                         | 1664                                     | 551                                | -1113                                  |
| 11         | 916.729                          | 7.2             | 37                      | 916.655                               | 916.833                         | 551                                      | 682                                | 131                                    |
| 12         | 916.908                          | 7.8             | 47                      | 916.833                               | 916.951                         | 682                                      | 781                                | 99                                     |
| 13         | 917.027                          | 8.9             | 58                      | 916.951                               | 917.039                         | 781                                      | 862                                | 81                                     |
| 14         | 916.944                          | 10.4            | 64                      | 917.039                               | 916.870                         | 862                                      | 712                                | -150                                   |
| 15         | 916.873                          | 8.3             | 48                      | 916.870                               | 916.842                         | 712                                      | 689                                | -23                                    |
| 16         | 916.821                          | 6.6             | 37                      | 916.842                               | 916.840                         | 689                                      | 687                                | -2                                     |
| 17         | 916.887                          | 5.5             | 32                      | 916.840                               | 916.932                         | 687                                      | 764                                | 77                                     |
| 18         | 916.968                          | 4.2             | 26                      | 916.932                               | 916.946                         | 764                                      | 777                                | 13                                     |
| 19         | 916.875                          | 5.9             | 34                      | 916.946                               | 916.780                         | 777                                      | 640                                | -137                                   |
| 20         | 916.766                          | 0.6             | 3                       | 916.780                               | 916.831                         | 640                                      | 680                                | 40                                     |
| 21         | 916.741                          | 1.1             | 6                       | 916.831                               | 916.646                         | 680                                      | 545                                | -135                                   |
| 22         | 916.598                          | 1.6             | 7                       | 916.646                               | 916.497                         | 545                                      | 451                                | -94                                    |
| 23         | 916.404                          | 0.9             | 3                       | 916.497                               | 916.357                         | 451                                      | 377                                | -74                                    |
| 24         | 916.180                          | 1.9             | 5                       | 916.357                               | 915.899                         | 377                                      | 195                                | -182                                   |

EVAPORATION STATION IS VAL MARIE



WATER SURVEY OF CANADA  
 JAN 20 1986  
 REGINA, SASK. 16:09

EASTEND CANAL NEAR EASTEND

STATION NO. 11AC052

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR | MAY    | JUN   | JUL | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|--------|-------|-----|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0      | 2.06  | 0   | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0   | 0   | 0      | 2.10  | 0   | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0   | 0   | 0      | 1.91  | 0   | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0   | 0   | 0      | 1.12  | 0   | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0   | 0   | 0      | 0.226 | 0   | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0   | 0   | 0      | 0.003 | 0   | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0   | 0   | 0      | 0     | 0   | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0   | 0   | 0      | 0     | 0   | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0   | 0   | 0      | 0     | 0   | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0   | 0   | 0      | 0     | 0   | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0   | 0   | 0      | 0     | 0   | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0   | 0   | 0      | 0     | 0   | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0   | 0   | 0.851  | 0     | 0   | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0   | 0   | 1.49   | 0     | 0   | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0   | 0   | 1.79   | 0     | 0   | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0   | 0   | 2.08   | 0     | 0   | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0   | 0   | 2.18   | 0     | 0   | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0   | 0   | 2.25   | 0     | 0   | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0   | 0   | 2.25   | 0     | 0   | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0   | 0   | 2.23   | 0     | 0   | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0   | 0   | 2.31   | 0     | 0   | 0   | 0   | 0   |     |     | 21    |
| 22    |     | 0   | 0   | 0   | 2.31   | 0     | 0   | 0   | 0   | 0   |     |     | 22    |
| 23    |     | 0   | 0   | 0   | 2.41   | 0     | 0   | 0   | 0   | 0   |     |     | 23    |
| 24    |     | 0   | 0   | 0   | 2.39   | 0     | 0   | 0   | 0   | 0   |     |     | 24    |
| 25    |     | 0   | 0   | 0   | 2.33   | 0     | 0   | 0   | 0   | 0   |     |     | 25    |
| 26    |     | 0   | 0   | 0   | 2.25   | 0     | 0   | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0   | 0   | 0   | 2.21   | 0     | 0   | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0   | 0   | 0   | 2.17   | 0     | 0   | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0   | 0   | 2.17   | 0     | 0   | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0   | 0   | 2.06   | 0     | 0   | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0   | 0   | 2.00   | 0     | 0   | 0   | 0   | 0   |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 39.741 | 7.419 | 0   | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 1.28   | 0.247 | 0   | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 3430   | 641   | 0   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 2.41   | 2.10  | 0   | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0      | 0     | 0   | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.192 M3/S  
 TOTAL DISCHARGE, 4070 DAM3  
 MAXIMUM DAILY DISCHARGE, 2.41 M3/S ON MAY 23  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

APPROVED BY: *[Signature]* FOR CANADA

*[Signature]* FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 15 1986  
 REGINA, SASK. 16:23

FRENCHMAN RIVER BELOW EASTEND RESERVOIR

STATION NO. 11AC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB     | MAR     | APR    | MAY    | JUN   | JUL   | AUG   | SEP    | OCT     | NOV | DEC | DAY   |
|-------|-----|---------|---------|--------|--------|-------|-------|-------|--------|---------|-----|-----|-------|
| 1     |     |         | 0.227 B | 1.51 B | 3.64   | 0.171 | 0.264 | 0.039 | 0.295  | 0.559   |     |     | 1     |
| 2     |     |         | 0.244 B | 14.6 B | 3.68   | 0.167 | 0.265 | 0.037 | 0.291  | 0.581   |     |     | 2     |
| 3     |     |         | 0.261 B | 23.1   | 2.31   | 0.164 | 0.260 | 0.043 | 0.294  | 0.585   |     |     | 3     |
| 4     |     |         | 0.279 B | 22.8   | 1.93   | 0.162 | 0.249 | 0.030 | 0.298  | 0.572   |     |     | 4     |
| 5     |     |         | 0.296 B | 18.3   | 2.16   | 0.214 | 0.248 | 0.031 | 0.303  | 0.591   |     |     | 5     |
| 6     |     |         | 0.288 B | 12.3   | 1.89   | 0.257 | 0.245 | 0.030 | 0.299  | 0.577   |     |     | 6     |
| 7     |     |         | 0.280 B | 6.86   | 1.25   | 0.249 | 0.245 | 0.026 | 0.292  | 0.567   |     |     | 7     |
| 8     |     |         | 0.272 B | 6.31   | 0.675  | 0.254 | 0.241 | 0.041 | 0.288  | 0.547   |     |     | 8     |
| 9     |     |         | 0.264 B | 9.80   | 0.853  | 0.253 | 0.240 | 0.026 | 0.278  | 0.537   |     |     | 9     |
| 10    |     |         | 0.256 B | 16.1   | 1.03   | 0.280 | 0.136 | 0.020 | 0.267  | 0.517   |     |     | 10    |
| 11    |     |         | 0.248 B | 27.1   | 0.332  | 0.290 | 0.158 | 0.020 | 0.265  | 0.521   |     |     | 11    |
| 12    |     |         | 0.393 B | 37.0   | 0.325  | 0.403 | 0.144 | 0.056 | 0.275  | 0.492   |     |     | 12    |
| 13    |     |         | 0.316 B | 46.0   | 0.307  | 0.621 | 0.098 | 0.082 | 0.392  | 0.496   |     |     | 13    |
| 14    |     |         | 0.425 B | 42.9   | 0.300  | 0.426 | 0.102 | 0.080 | 0.462  | 0.499   |     |     | 14    |
| 15    |     |         | 0.487 B | 30.2   | 0.301  | 0.270 | 0.092 | 0.122 | 0.458  | 0.526   |     |     | 15    |
| 16    |     |         | 0.440 B | 14.1   | 0.302  | 0.277 | 0.056 | 0.170 | 0.520  | 0.531   |     |     | 16    |
| 17    |     |         | 0.505 B | 6.76   | 0.300  | 0.280 | 0.040 | 0.173 | 0.536  | 0.708   |     |     | 17    |
| 18    |     |         | 0.471 B | 6.48   | 0.303  | 0.273 | 0.037 | 0.223 | 0.539  | 0.983   |     |     | 18    |
| 19    |     |         | 1.31 B  | 5.03   | 0.308  | 0.281 | 0.028 | 0.209 | 0.465  | 0.962   |     |     | 19    |
| 20    |     |         | 3.19 B  | 4.95   | 0.314  | 0.287 | 0.021 | 0.195 | 0.432  | 0.880   |     |     | 20    |
| 21    |     |         | 5.50 B  | 4.83   | 0.312  | 0.290 | 0.019 | 0.198 | 0.402  | 0.716   |     |     | 21    |
| 22    |     |         | 3.61 B  | 3.37   | 0.314  | 0.289 | 0.019 | 0.195 | 0.355  | 0.616   |     |     | 22    |
| 23    |     |         | 4.97 B  | 2.44   | 0.302  | 0.286 | 0.016 | 0.212 | 0.359  | 0.560   |     |     | 23    |
| 24    |     |         | 2.77 B  | 2.44   | 0.300  | 0.265 | 0.011 | 0.222 | 0.392  | 0.488   |     |     | 24    |
| 25    |     |         | 1.75 B  | 2.43   | 0.297  | 0.248 | 0.011 | 0.212 | 0.427  | 0.449   |     |     | 25    |
| 26    |     | 0.175 B | 1.14 B  | 2.44   | 0.299  | 0.239 | 0.009 | 0.223 | 0.489  | 0.423   |     |     | 26    |
| 27    |     | 0.192 B | 0.325 B | 2.42   | 0.294  | 0.237 | 0.023 | 0.228 | 0.537  | 0.420   |     |     | 27    |
| 28    |     | 0.210 B | 2.11 B  | 2.42   | 0.288  | 0.242 | 0.027 | 0.241 | 0.532  | 0.384   |     |     | 28    |
| 29    |     |         | 2.07 B  | 2.44   | 0.190  | 0.258 | 0.034 | 0.258 | 0.541  | 0.338 A |     |     | 29    |
| 30    |     |         | 1.53 B  | 2.44   | 0.198  | 0.268 | 0.041 | 0.259 | 0.552  | 0.310 E |     |     | 30    |
| 31    |     |         | 0.508 B |        | 0.177  |       | 0.042 | 0.277 |        | 0.285 E |     |     | 31    |
| TOTAL |     |         | 36.735  | 379.87 | 25.481 | 8.201 | 3.421 | 4.178 | 11.835 | 17.220  |     |     | TOTAL |
| MEAN  |     |         | 1.19    | 12.7   | 0.822  | 0.273 | 0.110 | 0.135 | 0.395  | 0.555   |     |     | MEAN  |
| DAM3  |     |         | 3170    | 32800  | 2200   | 709   | 296   | 361   | 1020   | 1490    |     |     | DAM3  |
| MAX   |     |         | 5.50    | 46.0   | 3.68   | 0.621 | 0.265 | 0.277 | 0.552  | 0.983   |     |     | MAX   |
| MIN   |     |         | 0.227   | 1.51   | 0.177  | 0.162 | 0.009 | 0.020 | 0.265  | 0.285   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN DISCHARGE, 1.99 M3/S


TOTAL DISCHARGE, 42000 DAM3

MAXIMUM DAILY DISCHARGE, 46.0 M3/S ON APR 13

MINIMUM DAILY DISCHARGE, 0.009 M3/S ON JUL 26

MAXIMUM INSTANTANEOUS DISCHARGE, 58.4 M3/S AT 22:51 C.S.T. ON APRIL 13

A-MANUAL GAUGE  
 B-ICE CONDITIONS  
 E-ESTIMATED

APPROVED BY:  FOR CANADA

VAL MARIE EVAPORATION

STATION NO. 11EV063

NET DAILY PAN EVAPORATION IN METRES FOR 1985

| DAY   | JAN | FEB | MAR | APR    | MAY    | JUN   | JUL    | AUG    | SEP    | OCT    | NOV | DEC | DAY   |
|-------|-----|-----|-----|--------|--------|-------|--------|--------|--------|--------|-----|-----|-------|
| 1     |     |     |     | 0      | 0.006  | 0.006 | 0.010  | 0.007  | 0.007  | 0.002  |     |     | 1     |
| 2     |     |     |     | 0      | 0.007  | 0.004 | 0.014  | 0.006  | 0.005  | 0.003  |     |     | 2     |
| 3     |     |     |     | 0      | 0.010  | 0.004 | 0.011  | 0.005  | 0.002  | -0.001 |     |     | 3     |
| 4     |     |     |     | 0      | 0.011  | 0.007 | 0.010  | 0.009  | 0.002  | 0.003  |     |     | 4     |
| 5     |     |     |     | 0      | 0.007  | 0.009 | 0.013  | 0.009  | 0.002  | 0.001  |     |     | 5     |
| 6     |     |     |     | 0      | 0.006  | 0.010 | 0.012  | 0.008  | -0.013 | 0      |     |     | 6     |
| 7     |     |     |     | 0      | 0.012  | 0.012 | 0.010  | 0.006  | 0.001  | 0      |     |     | 7     |
| 8     |     |     |     | 0      | 0.011  | 0.009 | 0.013  | 0.010  | 0.001  | 0      |     |     | 8     |
| 9     |     |     |     | 0      | 0.006  | 0.005 | 0.010  | 0.006  | -0.001 | 0      |     |     | 9     |
| 10    |     |     |     | 0.005  | 0.002  | 0.005 | 0.013  | 0.004  | 0.001  | 0      |     |     | 10    |
| 11    |     |     |     | 0.003  | 0.009  | 0.008 | 0.008  | 0.002  | 0.008  | -0.003 |     |     | 11    |
| 12    |     |     |     | 0.005  | -0.010 | 0.007 | 0.010  | -0.004 | -0.001 | 0.004  |     |     | 12    |
| 13    |     |     |     | 0.007  | 0.007  | 0     | 0.005  | 0.005  | 0.006  | 0.004  |     |     | 13    |
| 14    |     |     |     | 0.006  | 0.007  | 0.007 | 0.010  | 0.002  | 0.005  | -0.003 |     |     | 14    |
| 15    |     |     |     | 0.005  | 0.006  | 0.007 | 0.010  | -0.001 | 0.004  | -0.005 |     |     | 15    |
| 16    |     |     |     | 0.006  | 0.005  | 0.008 | 0.009  | 0.002  | 0.005  | 0.001  |     |     | 16    |
| 17    |     |     |     | 0.007  | 0.008  | 0.007 | 0.009  | 0.005  | 0      | 0.005  |     |     | 17    |
| 18    |     |     |     | 0.009  | 0.009  | 0.007 | 0.009  | 0.007  | -0.007 | 0.001  |     |     | 18    |
| 19    |     |     |     | 0.005  | 0.009  | 0.010 | 0.009  | 0.009  | 0.001  | 0.004  |     |     | 19    |
| 20    |     |     |     | 0.005  | 0.007  | 0.006 | 0.008  | 0.006  | 0.002  | 0.002  |     |     | 20    |
| 21    |     |     |     | 0.005  | 0.003  | 0.007 | 0.007  | 0.001  | -0.001 | 0.003  |     |     | 21    |
| 22    |     |     |     | 0.006  | 0.007  | 0.007 | 0.008  | -0.002 | 0.001  | 0.005  |     |     | 22    |
| 23    |     |     |     | 0.007  | 0.008  | 0.012 | -0.003 | 0.006  | 0.001  | 0.003  |     |     | 23    |
| 24    |     |     |     | -0.009 | 0.007  | 0.009 | 0.007  | 0.007  | -0.001 | 0.003  |     |     | 24    |
| 25    |     |     |     | -0.004 | 0.003  | 0.006 | 0.007  | 0.011  | 0.004  | 0.002  |     |     | 25    |
| 26    |     |     |     | 0.005  | 0.001  | 0.007 | 0.007  | 0.005  | 0.002  | 0.002  |     |     | 26    |
| 27    |     |     |     | 0.010  | 0.003  | 0.009 | 0.008  | 0.007  | 0.002  | 0.003  |     |     | 27    |
| 28    |     |     |     | 0.009  | 0.003  | 0.008 | 0.008  | -0.001 | 0.002  | 0.003  |     |     | 28    |
| 29    |     |     |     | 0.006  | -0.027 | 0.006 | 0.008  | 0.006  | 0.002  | 0.003  |     |     | 29    |
| 30    |     |     |     | 0.007  | -0.001 | 0.009 | 0.005  | 0.010  | 0.001  | 0.002  |     |     | 30    |
| 31    |     |     |     |        | 0.006  |       | 0.005  | 0.007  |        | 0      |     |     | 31    |
| TOTAL |     |     |     | 0.105  | 0.148  | 0.218 | 0.270  | 0.160  | 0.043  | 0.047  |     |     | TOTAL |
| MEAN  |     |     |     | 0.004  | 0.005  | 0.007 | 0.009  | 0.005  | 0.001  | 0.002  |     |     | MEAN  |
| DAM3  |     |     |     | 9.07   | 12.8   | 18.8  | 23.3   | 13.8   | 3.72   | 4.06   |     |     | DAM3  |
| MAX   |     |     |     | 0.010  | 0.012  | 0.012 | 0.014  | 0.011  | 0.008  | 0.005  |     |     | MAX   |
| MIN   |     |     |     | -0.009 | -0.027 | 0     | -0.003 | -0.004 | -0.013 | -0.005 |     |     | MIN   |

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

HUFF LAKE

11AC063

| ] PERIOD ] | ] MEAN ]<br>] ELEVATION ]<br>] (M) ] | ] EVAPORATION ]     |                             | ] ELEVATION AT ]                          |                                     | ] STORAGE AT ]                               |  | ] CHANGE IN ]<br>] STORAGE ]<br>] (DAK3) ] |
|------------|--------------------------------------|---------------------|-----------------------------|---|-------------------------------------|--|--|--|
|            |                                      | ] PAN ]<br>] (CM) ] | ] RESERVOIR ]<br>] (DAK3) ] | ] BEGINNING ]<br>] OF PERIOD ]<br>] (M) ] | ] END ]<br>] OF PERIOD ]<br>] (M) ] | ] BEGINNING ]<br>] OF PERIOD ]<br>] (DAK3) ] | ] END ]<br>] OF PERIOD ]<br>] (DAK3) ] |  |
| 1          | 811.400                              | 0.0                 | 0                           | 811.400                                   | 811.400                             | 0  | 0                                      | 0  |
| 2          | 811.718                              | 0.0                 | 0                           | 811.400                                   | 812.213                             | 0  | 106                                    | 106  |
| 3          | 812.498                              | 0.0                 | 0                           | 812.213                                   | 813.354                             | 106  | 639                                    | 533  |
| 4          | 813.803                              | 0.0                 | 0                           | 813.354                                   | 815.022                             | 639  | 2759                                   | 2120                                       |
| 5          | 815.255                              | 4.4                 | 67                          | 815.022                                   | 815.601                             | 2759   | 4024                                   | 1265                                       |
| 6          | 815.770                              | 3.9                 | 66                          | 815.601                                   | 815.800                             | 4024   | 4502                                   | 478  |
| 7          | 815.655                              | 8.1                 | 135                         | 815.800                                   | 815.570                             | 4502   | 3945                                   | -557                                       |
| 8          | 815.504                              | 5.1                 | 83                          | 815.570                                   | 815.342                             | 3945   | 3425                                   | -520                                       |
| 9          | 814.905                              | 6.0                 | 77                          | 815.342                                   | 814.407                             | 3425   | 1720                                   | -1705                                      |
| 10         | 814.190                              | 3.0                 | 27                          | 814.407                                   | 814.026                             | 1720   | 1224                                   | -496                                       |
| 11         | 813.936                              | 6.3                 | 48                          | 814.026                                   | 813.879                             | 1224   | 1063                                   | -161                                       |
| 12         | 813.766                              | 8.0                 | 53                          | 813.879                                   | 813.432                             | 1063   | 689                                    | -374                                       |
| 13         | 813.174                              | 10.3                | 41                          | 813.432                                   | 812.693                             | 689  | 287                                    | -402                                       |
| 14         | 812.216                              | 9.7                 | 21                          | 812.693                                   | 811.970                             | 287  | 44                                     | -243                                       |
| 15         | 811.821                              | 7.5                 | 6                           | 811.970                                   | 811.667                             | 44   | 7                                      | -37  |
| 16         | 811.516                              | 6.8                 | 1                           | 811.667                                   | 811.400                             | 7  | 0                                      | -7   |
| 17         | 811.400                              | 3.1                 | 0                           | 811.400                                   | 811.400                             | 0  | 0                                      | 0  |
| 18         | 811.400                              | 5.6                 | 0                           | 811.400                                   | 811.400                             | 0  | 0                                      | 0  |
| 19         | 811.400                              | 2.9                 | 0                           | 811.400                                   | 811.400                             | 0  | 0                                      | 0  |
| 20         | 811.516                              | 2.8                 | 0                           | 811.400                                   | 811.985                             | 0  | 47                                     | 47   |
| 21         | 812.280                              | 0.4                 | 1                           | 811.985                                   | 812.565                             | 47   | 232                                    | 185  |
| 22         | 812.645                              | 1.3                 | 4                           | 812.565                                   | 812.759                             | 232  | 317                                    | 85   |
| 23         | 812.906                              | 0.3                 | 1                           | 812.759                                   | 813.072                             | 317  | 475                                    | 158  |
| 24         | 813.204                              | 3.1                 | 13                          | 813.072                                   | 813.388                             | 475  | 660                                    | 185  |

EVAPORATION STATION IS VAL MARIE

STORAGE FACTORS AND EVAPORATION LOSSES  
1985

NEWTON LAKE

11AC056

| ] PERIOD ] | ] MEAN ]<br>] ELEVATION ]<br>(M) | ] EVAPORATION ] |                         | ] ELEVATION AT ]                      |                                 | ] STORAGE AT ]                           |                                    | ] CHANGE IN ]<br>] STORAGE ]<br>(DAN3) |
|------------|----------------------------------|-----------------|-------------------------|---------------------------------------|---------------------------------|--|------------------------------------|--|
|            |                                  | ] PAN ]<br>(CM) | ] RESERVOIR ]<br>(DAN3) | ] BEGINNING ]<br>] OF PERIOD ]<br>(M) | ] END ]<br>] OF PERIOD ]<br>(M) | ] BEGINNING ]<br>] OF PERIOD ]<br>(DAN3) | ] END ]<br>] OF PERIOD ]<br>(DAN3) |  |
| 1          | 798.500                          | 0.0             | 0                       | 798.500                               | 798.500                         | 0  | 0                                  | 0                                      |
| 2          | 798.500                          | 0.0             | 0                       | 798.500                               | 798.500                         | 0  | 0                                  | 0                                      |
| 3          | 798.786                          | 0.0             | 0                       | 798.500                               | 799.187                         | 0  | 138                                | 138                                    |
| 4          | 799.926                          | 0.0             | 0                       | 799.187                               | 801.074                         | 138                                      | 3033                               | 2895                                   |
| 5          | 801.836                          | 4.4             | 116                     | 801.074                               | 803.568                         | 3033                                     | 14054                              | 11021                                  |
| 6          | 803.083                          | 3.9             | 147                     | 803.568                               | 803.087                         | 14054                                    | 11196                              | -2858                                  |
| 7          | 803.043                          | 8.1             | 302                     | 803.087                               | 802.748                         | 11196                                    | 9467                               | -1729                                  |
| 8          | 802.447                          | 5.1             | 158                     | 802.748                               | 802.187                         | 9467                                     | 6963                               | -2504                                  |
| 9          | 801.761                          | 6.0             | 155                     | 802.187                               | 801.354                         | 6963                                     | 3890                               | -3073                                  |
| 10         | 801.101                          | 3.0             | 61                      | 801.354                               | 800.826                         | 3890                                     | 2378                               | -1512                                  |
| 11         | 800.666                          | 6.3             | 94                      | 800.826                               | 800.558                         | 2378                                     | 1795                               | -583                                   |
| 12         | 800.487                          | 8.0             | 104                     | 800.558                               | 800.353                         | 1795                                     | 1419                               | -376                                   |
| 13         | 800.263                          | 10.3            | 118                     | 800.353                               | 800.265                         | 1419                                     | 1271                               | -148                                   |
| 14         | 800.242                          | 9.7             | 110                     | 800.265                               | 800.173                         | 1271                                     | 1123                               | -148                                   |
| 15         | 800.072                          | 7.5             | 77                      | 800.173                               | 799.926                         | 1123                                     | 770                                | -353                                   |
| 16         | 799.641                          | 6.8             | 45                      | 799.926                               | 799.437                         | 770                                      | 281                                | -489                                   |
| 17         | 799.432                          | 3.1             | 15                      | 799.437                               | 799.424                         | 281                                      | 271                                | -10                                    |
| 18         | 799.405                          | 5.6             | 26                      | 799.424                               | 799.386                         | 271                                      | 246                                | -25                                    |
| 19         | 799.369                          | 2.9             | 13                      | 799.386                               | 799.377                         | 246                                      | 240                                | -6                                     |
| 20         | 799.360                          | 2.8             | 12                      | 799.377                               | 799.348                         | 240                                      | 223                                | -17                                    |
| 21         | 799.346                          | 0.4             | 2                       | 799.348                               | 799.293                         | 223                                      | 190                                | -33                                    |
| 22         | 799.222                          | 1.3             | 4                       | 799.293                               | 799.317                         | 190                                      | 204                                | 14                                     |
| 23         | 799.411                          | 0.3             | 1                       | 799.317                               | 799.529                         | 204                                      | 351                                | 147                                    |
| 24         | 799.649                          | 3.1             | 21                      | 799.529                               | 799.738                         | 351                                      | 548                                | 197                                    |

EVAPORATION STATION IS VAL MARIE

WATER SURVEY OF CANADA  
 JAN 8 1986  
 REGINA, SASK.

HUFF LAKE GRAVITY CANAL

STATION NO. 11AC065

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

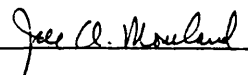
| DAY   | JAN | FEB | MAR | APR | MAY    | JUN   | JUL   | AUG | SEP | OCT   | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|--------|-------|-------|-----|-----|-------|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0      | 0.930 | 0.319 | 0   | 0   | 0     |     |     | 1     |
| 2     |     |     | 0   | 0   | 0      | 0.859 | 0.274 | 0   | 0   | 0     |     |     | 2     |
| 3     |     |     | 0   | 0   | 0      | 0.813 | 0.308 | 0   | 0   | 0     |     |     | 3     |
| 4     |     |     | 0   | 0   | 0      | 0.580 | 0.035 | 0   | 0   | 0     |     |     | 4     |
| 5     |     |     | 0   | 0   | 0      | 0.386 | 0     | 0   | 0   | 0     |     |     | 5     |
| 6     |     |     | 0   | 0   | 0      | 0.351 | 0     | 0   | 0   | 0     |     |     | 6     |
| 7     |     |     | 0   | 0   | 0      | 0.199 | 0     | 0   | 0   | 0     |     |     | 7     |
| 8     |     |     | 0   | 0   | 0      | 0.039 | 0     | 0   | 0   | 0     |     |     | 8     |
| 9     |     |     | 0   | 0   | 0      | 0     | 0     | 0   | 0   | 0     |     |     | 9     |
| 10    |     |     | 0   | 0   | 0      | 0     | 0     | 0   | 0   | 0     |     |     | 10    |
| 11    |     |     | 0   | 0   | 0      | 0.068 | 0     | 0   | 0   | 0     |     |     | 11    |
| 12    |     |     | 0   | 0   | 0      | 0.038 | 0     | 0   | 0   | 0     |     |     | 12    |
| 13    |     |     | 0   | 0   | 0      | 0     | 0     | 0   | 0   | 0     |     |     | 13    |
| 14    |     |     | 0   | 0   | 0.724  | 0     | 0     | 0   | 0   | 0     |     |     | 14    |
| 15    |     |     | 0   | 0   | 0.818  | 0     | 0     | 0   | 0   | 0     |     |     | 15    |
| 16    |     |     | 0   | 0   | 1.09   | 0     | 0     | 0   | 0   | 0     |     |     | 16    |
| 17    |     |     | 0   | 0   | 1.21   | 0     | 0     | 0   | 0   | 0.024 |     |     | 17    |
| 18    |     |     | 0   | 0   | 1.18   | 0     | 0     | 0   | 0   | 0.078 |     |     | 18    |
| 19    |     |     | 0   | 0   | 1.16   | 0     | 0     | 0   | 0   | 0.039 |     |     | 19    |
| 20    |     |     | 0   | 0   | 1.22   | 0     | 0     | 0   | 0   | 0     |     |     | 20    |
| 21    |     |     | 0   | 0   | 1.32   | 0     | 0     | 0   | 0   | 0     |     |     | 21    |
| 22    |     |     | 0   | 0   | 1.29   | 0     | 0     | 0   | 0   | 0     |     |     | 22    |
| 23    |     |     | 0   | 0   | 1.47   | 0.181 | 0     | 0   | 0   | 0     |     |     | 23    |
| 24    |     |     | 0   | 0   | 1.39   | 0.564 | 0     | 0   | 0   | 0     |     |     | 24    |
| 25    |     |     | 0   | 0   | 1.35   | 0.546 | 0     | 0   | 0   | 0     |     |     | 25    |
| 26    |     | 0   | 0   | 0   | 1.34   | 0.487 | 0     | 0   | 0   | 0     |     |     | 26    |
| 27    |     | 0   | 0   | 0   | 1.27   | 0.553 | 0     | 0   | 0   | 0     |     |     | 27    |
| 28    |     | 0   | 0   | 0   | 1.23   | 0.536 | 0     | 0   | 0   | 0     |     |     | 28    |
| 29    |     |     | 0   | 0   | 1.20   | 0.441 | 0     | 0   | 0   | 0     |     |     | 29    |
| 30    |     |     | 0   | 0   | 1.12   | 0.427 | 0     | 0   | 0   | 0     |     |     | 30    |
| 31    |     |     | 0   |     | 1.08   | 0     | 0     | 0   |     | 0     |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 21.462 | 7.998 | 0.936 | 0   | 0   | 0.141 |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 0.692  | 0.267 | 0.030 | 0   | 0   | 0.005 |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 1850   | 691   | 80.9  | 0   | 0   | 12.2  |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 1.47   | 0.930 | 0.319 | 0   | 0   | 0.078 |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0      | 0     | 0     | 0   | 0   | 0     |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.125 M<sup>3</sup>/S  
 TOTAL DISCHARGE, 2630 DAM3  
 MAXIMUM DAILY DISCHARGE, 1.47 M<sup>3</sup>/S ON MAY 23  
 MINIMUM DAILY DISCHARGE, 0 M<sup>3</sup>/S ON MAR 1

APPROVED BY:



FOR CANADA



FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 6 1986  
 REGINA, SASK.

HUFF LAKE PUMPING CANAL

STATION NO. 11AC066

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR | MAY    | JUN   | JUL | AUG | SEP | OCT   | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|--------|-------|-----|-----|-----|-------|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0      | 0.687 | 0   | 0   | 0   | 0     |     |     | 1     |
| 2     |     |     | 0   | 0   | 0      | 0.685 | 0   | 0   | 0   | 0     |     |     | 2     |
| 3     |     |     | 0   | 0   | 0      | 0.685 | 0   | 0   | 0   | 0     |     |     | 3     |
| 4     |     |     | 0   | 0   | 0      | 0.685 | 0   | 0   | 0   | 0     |     |     | 4     |
| 5     |     |     | 0   | 0   | 0      | 0.664 | 0   | 0   | 0   | 0     |     |     | 5     |
| 6     |     |     | 0   | 0   | 0      | 0.682 | 0   | 0   | 0   | 0     |     |     | 6     |
| 7     |     |     | 0   | 0   | 0      | 0.681 | 0   | 0   | 0   | 0     |     |     | 7     |
| 8     |     |     | 0   | 0   | 0      | 0.679 | 0   | 0   | 0   | 0     |     |     | 8     |
| 9     |     |     | 0   | 0   | 0      | 0.678 | 0   | 0   | 0   | 0     |     |     | 9     |
| 10    |     |     | 0   | 0   | 0      | 0.638 | 0   | 0   | 0   | 0     |     |     | 10    |
| 11    |     |     | 0   | 0   | 0      | 0.479 | 0   | 0   | 0   | 0     |     |     | 11    |
| 12    |     |     | 0   | 0   | 0      | 0.437 | 0   | 0   | 0   | 0     |     |     | 12    |
| 13    |     |     | 0   | 0   | 0      | 0     | 0   | 0   | 0   | 0     |     |     | 13    |
| 14    |     |     | 0   | 0   | 0.493  | 0     | 0   | 0   | 0   | 0     |     |     | 14    |
| 15    |     |     | 0   | 0   | 0.620  | 0     | 0   | 0   | 0   | 0     |     |     | 15    |
| 16    |     |     | 0   | 0   | 0.737  | 0     | 0   | 0   | 0   | 0     |     |     | 16    |
| 17    |     |     | 0   | 0   | 0.735  | 0     | 0   | 0   | 0   | 0     |     |     | 17    |
| 18    |     |     | 0   | 0   | 0.733  | 0     | 0   | 0   | 0   | 0     |     |     | 18    |
| 19    |     |     | 0   | 0   | 0.729  | 0     | 0   | 0   | 0   | 0     |     |     | 19    |
| 20    |     |     | 0   | 0   | 0.712  | 0     | 0   | 0   | 0   | 0     |     |     | 20    |
| 21    |     |     | 0   | 0   | 0.723  | 0     | 0   | 0   | 0   | 0.147 |     |     | 21    |
| 22    |     |     | 0   | 0   | 0.720  | 0     | 0   | 0   | 0   | 0     |     |     | 22    |
| 23    |     |     | 0   | 0   | 0.702  | 0     | 0   | 0   | 0   | 0     |     |     | 23    |
| 24    |     |     | 0   | 0   | 0.712  | 0.221 | 0   | 0   | 0   | 0     |     |     | 24    |
| 25    |     |     | 0   | 0   | 0.708  | 0.439 | 0   | 0   | 0   | 0     |     |     | 25    |
| 26    |     | 0   | 0   | 0   | 0.689  | 0.269 | 0   | 0   | 0   | 0     |     |     | 26    |
| 27    |     | 0   | 0   | 0   | 0.699  | 0.030 | 0   | 0   | 0   | 0     |     |     | 27    |
| 28    |     | 0   | 0   | 0   | 0.696  | 0.097 | 0   | 0   | 0   | 0     |     |     | 28    |
| 29    |     | 0   | 0   | 0   | 0.693  | 0.037 | 0   | 0   | 0   | 0     |     |     | 29    |
| 30    |     | 0   | 0   | 0   | 0.691  | 0     | 0   | 0   | 0   | 0     |     |     | 30    |
| 31    |     | 0   | 0   | 0   | 0.662  | 0     | 0   | 0   | 0   | 0     |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 12.454 | 8.773 | 0   | 0   | 0   | 0.147 |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 0.402  | 0.292 | 0   | 0   | 0   | 0.005 |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 1080   | 758   | 0   | 0   | 0   | 12.7  |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 0.737  | 0.687 | 0   | 0   | 0   | 0.147 |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0      | 0     | 0   | 0   | 0   | 0     |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.087 M3/S  
 TOTAL DISCHARGE, 1850 DAM3  
 MAXIMUM DAILY DISCHARGE, 0.737 M3/S ON MAY 16  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

APPROVED BY: *[Signature]* FOR CANADA

*[Signature]* FOR THE UNITED STATES

WATER SURVEY OF CANADA  
 JAN 8 1986  
 REGINA, SASK.

NEWTON LAKE MAIN CANAL

STATION NO. 11AC054

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR | MAY   | JUN    | JUL   | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|-------|--------|-------|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0     | 2.11   | 0.398 | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0   | 0   | 0     | 1.97   | 0.362 | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0   | 0   | 0     | 1.82   | 0.326 | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0   | 0   | 0     | 1.69   | 0.302 | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0   | 0   | 0     | 1.54   | 0.333 | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0   | 0   | 0     | 1.37   | 0.359 | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0   | 0   | 0     | 0.949  | 0.383 | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0   | 0   | 0     | 0.716  | 0.395 | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0   | 0   | 0     | 0.493  | 0.400 | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0   | 0   | 0     | 0.342  | 0.402 | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0   | 0   | 0     | 0.261  | 0.402 | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0   | 0   | 0     | 0.255  | 0.389 | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0   | 0   | 0     | 0.250  | 0.366 | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0   | 0   | 1.44  | 0.129  | 0.341 | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0   | 0   | 2.17  | 0      | 0.315 | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0   | 0   | 2.35  | 0      | 0.292 | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0   | 0   | 2.47  | 0      | 0.263 | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0   | 0   | 2.46  | 0      | 0.255 | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0   | 0   | 2.55  | 0      | 0.231 | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0   | 0   | 2.64  | 0      | 0.206 | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0   | 0   | 2.73  | 0      | 0.186 | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0   | 0   | 2.82  | 0      | 0.175 | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0   | 0   | 2.77  | 0      | 0.158 | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0   | 0   | 2.70  | 0.496  | 0.141 | 0   | 0   | 0   |     |     | 24    |
| 25    |     |     | 0   | 0   | 2.63  | 0.671  | 0.130 | 0   | 0   | 0   |     |     | 25    |
| 26    |     | 0   | 0   | 0   | 2.57  | 0.589  | 0.119 | 0   | 0   | 0   |     |     | 26    |
| 27    |     | 0   | 0   | 0   | 2.42  | 0.542  | 0.055 | 0   | 0   | 0   |     |     | 27    |
| 28    |     | 0   | 0   | 0   | 2.29  | 0.510  | 0     | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0   | 0   | 2.22  | 0.473  | 0     | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0   | 0   | 2.18  | 0.436  | 0     | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0   | 0   | 2.21  | 0      | 0     | 0   | 0   | 0   |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 43.62 | 17.612 | 7.684 | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 1.41  | 0.587  | 0.248 | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 3770  | 1520   | 664   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 2.82  | 2.11   | 0.402 | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0     | 0      | 0     | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0.281 M3/S  
 TOTAL DISCHARGE, 5950 DAM3  
 MAXIMUM DAILY DISCHARGE, 2.82 M3/S ON MAY 22  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

APPROVED BY:

*[Signature]*  
*[Signature]*

FOR CANADA

FOR THE UNITED STATES



WATER SURVEY OF CANADA  
 JAN 20 1986  
 REGINA, SASK. 15:51

FRENCHMAN RIVER BELOW NEWTON LAKE

STATION NO. 11AC062

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR     | APR     | MAY    | JUN    | JUL   | AUG   | SEP   | OCT     | NOV | DEC | DAY   |
|-------|-----|-----|---------|---------|--------|--------|-------|-------|-------|---------|-----|-----|-------|
| 1     |     |     | 0 B     | 0.903 B | 1.92   | 0.718  | 0     | 0.528 | 0     | 0.359   |     |     | 1     |
| 2     |     |     | 0 B     | 0.928   | 5.73   | 0.714  | 0.001 | 0.512 | 0     | 0.330   |     |     | 2     |
| 3     |     |     | 0 B     | 0.967   | 7.15   | 0.709  | 0     | 0.506 | 0     | 0.275   |     |     | 3     |
| 4     |     |     | 0 B     | 1.05    | 7.06   | 0.722  | 0.001 | 0.494 | 0     | 0.246   |     |     | 4     |
| 5     |     |     | 0 B     | 1.08    | 7.05   | 0.714  | 0     | 0.278 | 0.001 | 0.020   |     |     | 5     |
| 6     |     |     | 0 B     | 1.18    | 7.41   | 0.714  | 0     | 0     | 0.002 | 0.015   |     |     | 6     |
| 7     |     |     | 0 B     | 5.81    | 7.53   | 0.707  | 0.001 | 0     | 0.004 | 0.015   |     |     | 7     |
| 8     |     |     | 0 B     | 14.9    | 7.20   | 0.715  | 0.004 | 0     | 0.002 | 0.013   |     |     | 8     |
| 9     |     |     | 0 B     | 16.5    | 6.93   | 0.682  | 0.005 | 0     | 0.003 | 0.117   |     |     | 9     |
| 10    |     |     | 0 B     | 6.53    | 6.79   | 0.677  | 0.004 | 0     | 0.003 | 0.261   |     |     | 10    |
| 11    |     |     | 0 B     | 1.99    | 3.84   | 0.675  | 0.004 | 0     | 0.001 | 0.267   |     |     | 11    |
| 12    |     |     | 0 B     | 1.89    | 0.966  | 0.673  | 0.005 | 0     | 0.004 | 0.240   |     |     | 12    |
| 13    |     |     | 0 B     | 2.07    | 0.957  | 0.665  | 0.005 | 0     | 0.001 | 0.149   |     |     | 13    |
| 14    |     |     | 0 B     | 2.21    | 0.952  | 0.618  | 0.005 | 0     | 0     | 0.145   |     |     | 14    |
| 15    |     |     | 0 B     | 3.35    | 1.05   | 0.388  | 0.003 | 0     | 0     | 0.141   |     |     | 15    |
| 16    |     |     | 0.054 B | 4.54    | 1.39   | 0.401  | 0.003 | 0     | 0     | 0.139   |     |     | 16    |
| 17    |     |     | 0.107 B | 11.5    | 1.38   | 0.395  | 0.004 | 0     | 0     | 0.131   |     |     | 17    |
| 18    |     |     | 0.161 B | 17.0    | 1.37   | 0.377  | 0.003 | 0     | 0.001 | 0.127   |     |     | 18    |
| 19    |     |     | 0.096 B | 35.3    | 1.39   | 0.367  | 0.002 | 0     | 0     | 0.127   |     |     | 19    |
| 20    |     |     | 0.135 B | 27.0 A  | 1.39   | 0.384  | 0.001 | 0     | 0     | 0.127   |     |     | 20    |
| 21    |     |     | 0.162 B | 1.42 E  | 1.38   | 0.388  | 0     | 0.002 | 0     | 0.120   |     |     | 21    |
| 22    |     |     | 0.109 B | 0.966 E | 1.36   | 0.380  | 0     | 0.002 | 0     | 0.124   |     |     | 22    |
| 23    |     |     | 0.194 B | 0.966 E | 1.35   | 0.378  | 0     | 0.002 | 0     | 0.114   |     |     | 23    |
| 24    |     |     | 0.267 B | 1.42 E  | 0.826  | 0.376  | 0     | 0.002 | 0     | 0.148   |     |     | 24    |
| 25    |     |     | 0.277 B | 1.42 E  | 0.813  | 0.376  | 0     | 0.001 | 0     | 0.259   |     |     | 25    |
| 26    |     |     | 0.455 B | 1.74 E  | 0.802  | 0.290  | 0     | 0     | 0.218 | 0.251   |     |     | 26    |
| 27    |     |     | 0.590 B | 2.03 E  | 0.786  | 0.010  | 0.239 | 0     | 0.451 | 0.254   |     |     | 27    |
| 28    |     |     | 0.741 B | 2.03 E  | 0.776  | 0.001  | 0.530 | 0.002 | 0.454 | 0.251   |     |     | 28    |
| 29    |     |     | 0.773 B | 2.03 A  | 0.759  | 0.001  | 0.529 | 0     | 0.442 | 0.242   |     |     | 29    |
| 30    |     |     | 0.692 B | 2.01    | 0.756  | 0.001  | 0.526 | 0     | 0.387 | 0.245 A |     |     | 30    |
| 31    |     |     | 0.889 B |         | 0.747  |        | 0.526 | 0     |       | 0.236 E |     |     | 31    |
| TOTAL |     |     | 5.702   | 172.730 | 89.810 | 14.216 | 2.401 | 2.329 | 1.974 | 5.488   |     |     | TOTAL |
| MEAN  |     |     | 0.184   | 5.76    | 2.90   | 0.474  | 0.077 | 0.075 | 0.066 | 0.177   |     |     | MEAN  |
| DAM3  |     |     | 493     | 14900   | 7760   | 1230   | 207   | 201   | 171   | 474     |     |     | DAM3  |
| MAX   |     |     | 0.889   | 35.3    | 7.53   | 0.722  | 0.530 | 0.528 | 0.454 | 0.359   |     |     | MAX   |
| MIN   |     |     | 0       | 0.903   | 0.747  | 0.001  | 0     | 0     | 0     | 0.013   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN DISCHARGE, 1.20 M3/S

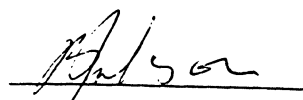
TOTAL DISCHARGE, 25400 DAM3

MAXIMUM DAILY DISCHARGE, 35.3 M3/S ON APR 19

MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

MAXIMUM INSTANTANEOUS DISCHARGE, 47.8 M3/S AT 13:39 C.S.T. ON APRIL 19.

A-MANUAL GAUGE  
 B-ICE CONDITIONS  
 E-ESTIMATED

APPROVED BY:  FOR CANADA

Minor Diversions  
Frenchman River Basin  
1985

| File No. | Ditch Owner        | Point of Diversion | Diverting from   | Approximate dam3 diverted |        |
|----------|--------------------|--------------------|------------------|---------------------------|--------|
|          |                    |                    |                  | June 30                   | Oct 31 |
| 55       | Keith W. Alexander | SE 2-7-23-3        | Concrete Coulee  | 37                        | 0      |
| 60       | Raymond White      | SE 5-8-22-3        | Calf Creek       | 25                        | 0      |
| 65       | John W. Caton      | SW 31-6-24-3       | Fairwell Creek   | 271                       | 0      |
| 379      | (two projects)     | SE 14-6-25-3       | Moirvale Coulee  | -                         | -      |
| 70       | Guy R. Bryan       | NE 28-7-26-3       | Lone Pine Creek  | 41                        | 0      |
| 74       | Mary E. Millions   | NW 15-7-22-3       | Frenchman River  | 56                        | 0      |
| 80       | Cypress Cattle Co. | SW 30-6-25-3       | Belanger Creek   | 472                       | 0      |
| 93       | (five projects)    | SW 30-6-25-3       | coulee           | -                         | -      |
| 334      |                    | SE 25-6-26-3       | Belanger Creek   | -                         | -      |
| 11974    |                    | SW 30-6-25-3       |                  | -                         | -      |
| 11977    |                    | SW 30-6-25-3       |                  | -                         | -      |
| 118      | Raymond Freel      | NW 24-6-23-3       | Frenchman River  | 28                        | 0      |
| 121      | John C. Armstrong  | NW 9-8-24-3        | Armstrong Coulee | 21                        | 0      |
| 122      | (four projects)    | NE 32-7-24-3       | Armstrong Creek  | 86                        | 0      |
| 123      |                    | SW 8-8-24-3        | Clarence Coulee  | 25                        | 0      |
| 124      |                    | SW 8-8-24-3        | Clarence Coulee  | 49                        | 0      |
| 129      | Guy R. Bryan       | SW 27-7-26-3       | Lone Pine Creek  | 83                        | 0      |
| 154      | Fred J. Williamson | NE 1-6-21-3        | Eastbrook Coulee | 83                        | 0      |
| 335      | Cypress Cattle Co. | NW 29-6-25-3       | Davis Creek      | 167                       | 0      |
| 411      | (three projects)   | NW 29-6-25-3       | Davis Creek      | -                         | -      |
| 11975    |                    | NE 29-6-25-3       |                  | -                         | -      |
| 369      | Daphne Fordice     | NW 18-7-25-3       | Belanger Creek   | 64                        | 0      |
| 9138     | (four projects)    | NW 18-7-25-3       | coulee           | -                         | -      |
| 9139     |                    | SW 18-7-25-3       | coulee           | -                         | -      |
| 9140     |                    | SW 19-7-25-3       | coulee           | -                         | -      |

Minor Diversions  
Frenchman River Basin  
1985

| File No. | Ditch Owner  | Point of Diversion | Diverting from       | Approximate dam3 diverted |        |
|----------|--|--------------------|----------------------|---------------------------|--------|
|          |  |                    |                      | June 30                   | Oct 31 |
| 461      | Calvin W. Peacock                                  | SE 34-5-20-3       | coulee               | 0                         | 0      |
| 12219    | (two projects)                                     | SE 34-5-20-3       |                      | -                         | -      |
| 479      | Fred White   | SW 36-5-17-3       | McDonald Coulee      | 0                         | 0      |
| 10064    | (two projects)                                     | SW 36-5-17-3       | McDonald Coulee      | -                         | -      |
| 507      | Fred T. White                                      | NW 33-5-17-3       | coulee               | 37                        | 0      |
| 2025     | (two projects)                                     | NE 20-5-17-3       | Horse Camp Coulee    | -                         | -      |
| 657      | Michael Greenlay                                   | NE 33-4-17-3       | coulee               | 25                        | 0      |
| 690      | Walter C. Larson Estate<br>c/o Permanent Trust Co. | NW 34-2-13-3       | Little Pinto Creek   | 0                         | 0      |
| 943      | Walter C. Larson Estate<br>c/o Permanent Trust Co. | NE 35-2-12-3       | a creek              | 0                         | 0      |
| 989      | Wallace Arendt                                     | NE 3-7-24-3        | coulee               | 0e                        | 0e     |
| 992      | Fred T. White                                      | NE 23-5-17-3       | coulee               | 0                         | 0      |
| 4865     | (two projects)                                     | SW 23-5-17-3       | Frenchman River      | -                         | -      |
| 1014     | William G. Saville                                 | NW 10-7-24-3       | coulee               | 37                        | 0      |
| 1217     | Carl L. Belza                                      | SW 19-2-12-3       | coulee               | 0                         | 0      |
| 1289     | Hanson Ranches Ltd.                                | NW 16-8-22-3       | Frenchman River      | 0                         | 0      |
| 12307    | (two projects)                                     | NW 16-8-22-3       |                      | -                         | -      |
| 1603     | Edgar Nadeau                                       | NW 2-4-13-3        | E. Br. Denniel Creek | 0                         | 0      |
| 1691     | Walter C. Larson Estate<br>c/o Permanent Trust Co. | SW 4-3-12-3        | a creek              | 0                         | 0      |
| 1992     | Walter C. Larson Estate<br>c/o Permanent Trust Co. | NE 34-2-12-3       | coulee               | 0                         | 0      |
| 2154     | Donald T. Gillespie                                | NW 10-1-10-3       | Molstead Creek       | 48                        | 0      |
| 2235     | Stanley M. Perrin                                  | NW 2-8-25-3        | coulee               | 0                         | 0      |
| 2236     | (two projects)                                     | NW 2-8-25-3        | coulee               | -                         | -      |

Minor Diversions  
Frenchman River Basin  
1985

| File No. | Ditch Owner         | Point of Diverting | Diverting from       | Approximate dam3 diverted |        |
|----------|---------------------|--------------------|----------------------|---------------------------|--------|
|          |                     |                    |                      | June 30                   | Oct 31 |
| 2305     | Fred & Glen Duke    | SE 36-6-21-3       | coulee               | 0                         | 0      |
| 2496     | Harley G. Bryan     | SE 22-8-26-3       | coulee               | 0e                        | 0e     |
| 2851     | Stanley M. Perrin   | NE 3-8-25-3        | Willow Creek         | 0                         | 0      |
| 2887     | Jean Garissere      | SW 30-8-25-3       | coulee               | 5                         | 0      |
| 3635     | Roland Agar         | NW 20-7-24-3       | coulee               | 0                         | 0      |
| 3694     | Francis Walker      | NE 1-5-12-3        | coulee               | 0                         | 0      |
| 3929     | George J. Hayes     | NW 28-4-12-3       | coulee               | 0                         | 0      |
| 3964     | Jack A. Whitney     | NE 28-7-26-3       | Lone Pine Creek      | 12                        | 0      |
| 8201     | (two projects)      | NW 33-7-26-3       | Lone Pine Creek      | -                         | -      |
| 4579     | Glen F. Duke        | SW 31-6-20-3       | coulee               | 9                         | 0      |
| 4665     | Joseph Dawson       | NW 4-7-21-3        | Willis Coulee        | 52                        | 0      |
| 4848     | Keith Alexander     | SE 2-7-23-3        | Frenchman River      | 7                         | 0      |
| 4912     | Don J. Pearson      | SE 15-6-23-3       | coulee               | 2                         | 0      |
| 4992     | Walker Ranch Ltd.   | SE 27-1-11-3       | Frenchman River      | 0                         | 0      |
| 5002     | Neil Olson          | SE 7-4-12-3        | coulee               | 0                         | 0      |
| 5084     | Francis Edwar Olson | NW 16-4-12-3       | E. Br. Denniel Creek | 14                        | 0      |
| 5085     | Francis Edwar Olson | NE 17-4-12-3       | coulee               | 0                         | 0      |
| 5086     | Francis Edwar Olson | NW 17-4-12-3       | coulee               | 0                         | 0      |
| 5235     | Clarence Ruttle     | NE 9-5-19-3        | Chambery Coulee      | 43                        | 0      |
| 13524    | (two projects)      | SE 9-5-19-3        | Frenchman River      | 74                        | 74     |
| 5250     | Kathryn Morvik      | SE 27-6-22-3       | Frenchman River      | 49                        | 0      |
| 5278     | Fred & Glen Duke    | NW 32-6-20-3       | coulee               | 0e                        | 0e     |
| 12591    | (two projects)      | NE 32-6-20-3       | coulee               | 2                         | 0      |
| 5298     | Richard B. Girard   | SW 26-5-21-3       | Eastbrook Coulee     | 0                         | 0      |

Minor Diversions  
Frenchman River Basin  
1985

| File No. | Ditch Owner                            | Point of Diversion | Diverting from  | Approximate dam <sup>3</sup> diverted |        |
|----------|--|--------------------|-----------------|---------------------------------------|--------|
|          |  |                    |                 | June 30                               | Oct 31 |
| 5493     | Gary Topham                            | SE 17-7-22-3       | Frenchman River | 67                                    | 0      |
| 5525     | William D. Olmsted                     | NE 11-6-25-3       | Frenchman River | 4                                     | 0      |
| 5729     | John C. Armstrong                      | SE 31-7-24-3       | coulee          | 9                                     | 0      |
| 5871     | Clifford G. Olson                      | SW 5-4-12-3        | coulee          | 0                                     | 0      |
| 6064     | Glennis Hanson                         | SW 15-6-20-3       | coulee          | 0                                     | 0      |
| 6105     | Irvine Pidt                            | NW 16-7-21-3       |                 | 0                                     | 0      |
| 6286     | Calvin W. Peacock                      | SW 4-6-20-3        | Frenchman River | 0                                     | 0      |
| 6339     | John C. Armstrong                      | NW 32-7-24-3       | coulee          | 5                                     | 0      |
| 6432     | Donald J. Pearson                      | NW 22-6-23-3       | Frenchman River | 7                                     | 0      |
| 7312     | Clark Farms Ltd.<br>c/o Clifford Clark | SW 31-4-18-3       | Frenchman River | 99                                    | 0      |
| 8352     | (three projects)                       | SW 31-4-18-3       | Frenchman River | -                                     | -      |
| 9592     |  | SW 32-4-18-3       | Frenchman River | -                                     | -      |
| 7331     | Daphne Fordice                         | NW 19-7-25-3       | coulee          | 6                                     | 0      |
| 7332     | Homer C. Jensen                        | SE 32-4-17-3       | Frenchman River | 39.                                   | 0      |
| 7645     | (two projects)                         | NE 30-4-17-3       | Frenchman River | 43                                    | -      |
| 7682     | Donald J. Pearson                      | NE 22-6-23-3       | Frenchman River | 42                                    | 0      |
| 8632     | (three projects)                       | SE 28-6-23-3       | Frenchman River | -                                     | -      |
| 12400    |  | NE 21-6-23-3       | Frenchman River | -                                     | -      |
| 7754     | Edgar Nadeau                           | SW 36-3-13-3       | coulee          | 0                                     | 0      |
| 7778     | Charles W. Smith                       | SW 8-4-10-3        | coulee          | 0                                     | 0      |
| 8345     | (two projects)                         | NW 5-4-10-3        | coulee          | -                                     | -      |
| 7935     | Francis E. Olson                       | NE 16-4-12-3       | coulee          | 0                                     | 0      |
| 7958     | Lester Morvik                          | NE 34-6-21-3       | coulee          | 0                                     | 0      |

Minor Diversions  
Frenchman River Basin  
1985

| File No. | Ditch Owner                            | Point of Diversion | Diverting from  | Approximate dam <sup>3</sup> diverted |        |
|----------|--|--------------------|-----------------|---------------------------------------|--------|
|          |  |                    |                 | June 30                               | Oct 31 |
| 8131     | T. T. Ranch                            | NE 24-6-24-3       | Frenchman River | 10                                    | 0      |
| 11864    | c/o Bill Armstrong<br>(three projects) | SE 25-6-24-3       |                 | -                                     | -      |
| 12207    |  | SE 25-6-24-3       | coulee          | -                                     | -      |
| 8322     | Claude Duquette                        | NW 24-3-13-3       | coulee          | 0                                     | 0      |
| 8756     | William M. Currie                      | NE 2-5-22-3        | coulee          | 0                                     | 0      |
| 8855     | Walker Ranch Ltd.                      | SE 24-1-11-3       | Coulee No. 1    | 0                                     | 0      |
| 8856     | c/o Francis Walker<br>(two projects)   | NE 13-1-11-3       | Coulee No. 2    | -                                     | -      |
| 8901     | Malcolm McCuaig                        | NE 13-5-21-3       | coulee          | 0                                     | 0      |
| 9076     | Donald T. Gillespie                    | NW 3-1-10-3        | Frenchman River | 6                                     | 0      |
| 11547    | (three projects)                       | SW 4-1-10-3        | Frenchman River | 12                                    | 0      |
| 11835    |  | SW 4-1-10-3        | Frenchman River | -                                     | -      |
| 9254     | Lewis Shufletoski                      | SW 1-8-24-3        | Belanger Creek  | 20                                    | 0      |
| 9450     | Jean W. Garissere                      | NW 26-8-26-3       |                 | 7                                     | 0      |
| 9481     | George Wranesch                        | NE 30-6-13-3       | coulee          | 41                                    | 0      |
| 9490     | Clifford Arnal                         | SE 30-7-23-3       | Blacktail Creek | 31                                    | 0      |
| 9548     | Donald T. Gillespie                    | NW 9-1-10-3        | Frenchman River | 21                                    | 0      |
| 11142    | (four projects)                        | NW 9-1-10-3        | Frenchman River | 12                                    | 0      |
| 11237    |  | NW 9-1-10-3        | Frenchman River | 12                                    | 0      |
| 12106    |  | NW 9-1-10-3        | Frenchman River | -                                     | -      |
| 9552     | Stanley David                          | NE 20-7-23-3       | Blacktail Creek | 9                                     | 0      |
| 9571     | Fred T. White                          | SE 15-6-18-3       | coulee          | 0                                     | 0      |
| 9596     | Calvin E. Olson                        | SW 16-4-12-3       | coulee          | 0                                     | 0      |
| 9691     | Donald J. Pearson                      | NE 10-6-23-3       | coulee          | 6                                     | 0      |
| 9951     | Daphne Fordice                         | SE 24-7-26-3       | coulee          | 6                                     | 0      |
| 9957     | Stanley A. Olson                       | NW 24-6-21-3       | coulee          | 5                                     | 0      |
| 10035    | Robert Dixon                           | NW 8-6-12-3        | coulee          | 7                                     | 0      |

Minor Diversions  
Frenchman River Basin  
1985

| File No. | Ditch Owner                             | Point of Diversion | Diverting from  | Approximate dam3 diverted |        |
|----------|---|--------------------|-----------------|---------------------------|--------|
|          |   |                    |                 | June 30                   | Oct 31 |
| 10156    | William G. Saville                      | NW 2-7-24-3        | coulee          | 15                        | 0      |
| 10411    | Sidney Hanson                           | SW 23-8-23-3       | coulee          | 5                         | 0      |
| 10425    | Fred & Glen Duke                        | SE 32-6-20-3       | coulee          | 1                         | 0      |
| 10804    | Samuel L. Armstrong                     | NW 2-8-24-3        | Coulee No. 1    | 60                        | 0      |
| 10805    | (two projects)                          | SW 2-8-24-3        | Coulee No. 2    | -                         | -      |
| 10836    | Samuel L. Armstrong                     | NW 9-8-24-3        | coulee          | 11                        | 0      |
| 10864    | Daphne Fordice                          | SE 12-7-26-3       | coulee          | 4                         | 0      |
| 10962    | Ian N. Grant                            | NW 19-5-13-3       | coulee          | 16                        | 0      |
| 11409    | T. T. Ranch Co.<br>c/o Bill Armstrong   | NW 24-6-24-3       | coulee          | 0                         | 0      |
| 11447    | Walker Ranch Ltd.<br>c/o Francis Walker | NE 8-1-10-3        |                 | 0                         | 0      |
| 11448    | (six projects)                          | NE 22-1-11-3       | coulee          | 0                         | 0      |
| 11449    |   | SE 25-1-11-3       | coulee          | 0                         | 0      |
| 11450    |   | NW 26-1-11-3       | coulee          | 0                         | 0      |
| 11451    |   | NE 24-1-11-3       | Frenchman River | 0                         | 0      |
| 11452    |   | SE 24-1-11-3       | Frenchman River | 0                         | 0      |
| 11455    | T. T. Ranch Co.<br>c/o Bill Armstrong   | NE 23-6-24-3       | coulee          | 0                         | 0      |
| 11508    | (two projects)                          | NE 16-6-24-3       | Frenchman River | 0                         | 0      |
| 11617    | Duncan S. Grant                         | SE 4-4-13-3        | coulee          | 9                         | 0      |
| 11618    | (two projects)                          | NE 33-3-13-3       | coulee          | -                         | -      |
| 11852    | T. T. Ranch Co.<br>c/o Bill Armstrong   | SW 23-6-24-3       |                 | 0                         | 0      |
| 12082    | (three projects)                        | NE 19-6-23-3       |                 | 0                         | 0      |
| 12213    |   | NE 19-6-23-3       | Frenchman River | -                         | -      |
| 12220    | Calvin W. Peacock                       | NW 27-5-20-3       | Frenchman River | 0                         | 0      |
| 12232    | Pansy White                             | NE 19-6-25-3       | Frenchman River | 31                        | 0      |
| 12286    | Donald E. A. Bowles                     | SE 29-8-24-3       |                 | 6                         | 0      |

Minor Diversions  
Frenchman River Basin  
1985

| File No.                                | Ditch Owner          | Point of Diversion | Diverting from  | Approximate dam3 diverted |        |
|---|----------------------|--------------------|-----------------|---------------------------|--------|
|   |                      |                    |                 | June 30                   | Oct 31 |
| 12545                                   | Bruce N. Dixon       | NW 34-1-11-3       | Frenchman River | 12                        | 0      |
| 12546                                   | (three projects)     | NW 3-2-11-3        | Frenchman River | 12                        | 0      |
| 12547                                   |                      | NW 4-2-11-3        | Frenchman River | 12                        | 0      |
| 12599                                   | Bruce Dixon          | SW 9-2-11-3        |                 | 17                        | 0      |
| 12600                                   | Bruce Dixon          | NW 8-2-11-3        |                 | 22                        | 0      |
| 13781                                   | Jack G. Ziegler      | SW 18-7-24-3       | Fairwell Creek  | 0                         | 0      |
| 14420                                   | Harley G. Bryan      | SE 23-8-26-3       |                 | 74                        | 0      |
|   | Gayle Le Gault       |                    |                 | 30                        | 0      |
|   | Val Marie Pump No. 1 |                    |                 | 209                       | 0      |
|   | Val Marie Pump No. 2 |                    |                 | 56                        | 0      |
| Total minor diversions in Canada (dam3) |                      |                    |                 | 3052                      | 74     |

Total minor diversions = 3052 + 74 = 3126 dam3

Domestic usage = 45% of total minor diversions  
= 45% of 3126  
= 1407 dam3

Total usage in Canada = minor diversions + domestic use  
= 3126 + 1407  
= 4533 dam3



WATER SURVEY OF CANADA  
 JAN 8 1986  
 REGINA, SASK.

LYONS CREEK AT INTERNATIONAL BOUNDARY

STATION NO. 11AB075

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1985

| DAY   | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | DAY   |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 1     |
| 2     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 2     |
| 3     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 3     |
| 4     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 4     |
| 5     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 5     |
| 6     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 6     |
| 7     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 7     |
| 8     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 8     |
| 9     |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 9     |
| 10    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 10    |
| 11    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 11    |
| 12    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 12    |
| 13    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 13    |
| 14    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 14    |
| 15    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 15    |
| 16    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 16    |
| 17    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 17    |
| 18    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 18    |
| 19    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 19    |
| 20    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 20    |
| 21    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 21    |
| 22    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 22    |
| 23    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 23    |
| 24    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 24    |
| 25    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 25    |
| 26    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 26    |
| 27    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 27    |
| 28    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 28    |
| 29    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 29    |
| 30    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 30    |
| 31    |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | 31    |
| TOTAL |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | TOTAL |
| MEAN  |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MEAN  |
| DAM3  |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | DAM3  |
| MAX   |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MAX   |
| MIN   |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     | MIN   |

SUMMARY FOR THE MONTHS MAR TO OCT  
 MEAN DISCHARGE, 0 M3/S  
 TOTAL DISCHARGE, 0 DAM3  
 MAXIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1  
 MINIMUM DAILY DISCHARGE, 0 M3/S ON MAR 1

APPROVED BY: Jan A. Moulard FOR THE UNITED STATES  
[Signature] FOR CANADA