

**APPENDICES A AND B
OF THE REPORT TO
THE INTERNATIONAL JOINT COMMISSION
ON
THE DIVISION OF THE WATERS OF
THE ST. MARY AND MILK RIVERS
FOR THE YEAR 2014**

Submitted By

Dr. Alain Pietroniro

Representing Canada

And

Dr. Max M. Ethridge

Representing the United States

Contributors

The data contained in these appendices are the culmination of a concerted effort by personnel of the Alberta and Saskatchewan Districts of the Water Survey Division, Environment Canada and the United States Geological Survey, Wyoming-Montana Water Science Center.

The following individuals collected, compiled, verified, and tabulated the data in these appendices:

N. Barr, WSD, Regina, Saskatchewan
B. Bouger, WSD, Regina, Saskatchewan
A. Brown, WSD, Calgary, Alberta
S. Davidson, USGS, Cheyenne, Wyoming
S. Hill, WSD, Regina, Saskatchewan
D. J. DeWulf, WSD, Regina, Saskatchewan
C. Selman, WSD, Calgary, Alberta
C. Hein, WSD, Regina, Saskatchewan
D. Helfrick, WSD, Regina, Saskatchewan
T. Ma, WSD, Regina, Saskatchewan
N. Cripps, WSD, Regina, Saskatchewan
W. Chen, WSD, Calgary, Alberta
S. Hussey, WSD, Calgary, Alberta
A. W. Johnson, USGS, Fort Peck, Montana
R. G. Legare, USGS, Fort Peck, Montana
N. A. Midtlyng, USGS, Helena, Montana
D. J. Moncur, WSD, Calgary, Alberta
P. Provencher, USGS, Fort Peck, Montana
S. Salm, WSD, Regina, Saskatchewan
J. Wagner-Watchel, WSD, Calgary, Alberta
A. Whiteman, USGS, Helena, Montana

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Table 6

NATURAL FLOW AND WATER DIVISION OF ST. MARY RIVER AT INTERNATIONAL BOUNDARY

MARCH 2014

(QUANTITIES IN CUBIC DECAMETRES)

DAY	LAKE SHERBURNE (WITH 1 DAY LAG)	CHANGE IN CONTENTS OF ST. MARY CANAL	DIVERTED BY ST. MARY CANAL	TOTAL USED BY UNITED STATES		NATURAL FLOW AT INTERNATIONAL BOUNDARY	SHARES OF NATURAL FLOW UNITED STATES	CANADA	FLOW IN EXCESS OR DEFICIT (-) OF CANADIAN SHARE
				AT INTERNATIONAL BOUNDARY	AT INTERNATIONAL BOUNDARY				
1	147	0	147	196	343	171	172	24	
2	132	0	132	196	328	164	164	32	
3	103	0	103	208	311	156	155	53	
4	29	0	29	208	237	118	119	89	
5	193	0	193	220	413	207	206	14	
6	59	0	59	245	304	152	152	93	
7	206	0	206	269	475	237	238	31	
8	29	0	29	294	323	162	161	133	
9	120	0	120	318	438	219	219	99	
10	369	0	369	343	712	356	356	-13	
11	179	0	179	367	546	273	273	94	
12	223	0	223	391	614	307	307	84	
13	240	0	240	440	680	340	340	100	
14	179	0	179	489	668	334	334	155	
15	196	0	196	563	759	379	380	183	
S.TOTAL MEAN	2 404	0	2 404	4 747	7 151	3 575	3 576	1 171	
	160	0.0	160	316	477	238	238	78.1	
16	225	0	225	636	861	431	430	206	
17	166	0	166	734	900	450	450	284	
18	377	0	377	783	1 160	580	580	203	
19	225	0	225	807	1 032	516	516	291	
20	137	0	137	832	969	484	485	347	
21	166	0	166	856	1 022	511	511	345	
22	169	0	169	832	1 001	501	501	332	
23	152	0	152	783	935	467	468	315	
24	122	0	122	734	856	428	428	306	
25	120	0	120	636	756	378	378	258	
26	108	0	108	572	680	340	340	232	
27	183	0	183	558	741	371	370	188	
28	122	0	122	543	665	332	332	210	
29	108	0	108	563	671	336	335	228	
30	93	0	93	575	668	334	334	241	
31	186	0	186	548	734	367	367	181	
S.TOTAL MEAN	2 659	0	2 659	10 992	13 651	6 826	6 825	4 167	
TOTAL MEAN	5 063	0	5 063	15 739	20 802	10 401	10 401	5 338	
	163	0.0	163	508	671	336	336	172	

APPROVED BY FIELD REPRESENTATIVES FOR THE UNITED STATES AND CANADA

Table 6 (Continued)
NATURAL FLOW AND WATER DIVISION OF ST. MARY RIVER AT INTERNATIONAL BOUNDARY

APRIL 2014

(QUANTITIES IN CUBIC DECAVETRES)

DAY	CHANGE IN CONTENTS OF LAKE SHERBURNE (WITH 1 DAY LAG)	DIVERTED BY ST. MARY CANAL	TOTAL USED BY UNITED STATES	ST. MARY RIVER AT INTERNATIONAL BOUNDARY	NATURAL FLOW AT INTERNATIONAL BOUNDARY	SHARES OF NATURAL FLOW	FLOW IN EXCESS OR DEFICIT (-) OF CANADIAN SHARE	
							UNITED STATES	CANADA
1	91	0	91	519	610	152	458	61
2	108	0	108	499	607	152	455	44
3	93	0	93	499	592	148	444	55
4	32	0	32	506	538	134	404	102
5	169	0	169	524	693	173	520	4
6	93	0	93	528	621	155	466	62
7	110	0	110	555	665	166	499	56
8	61	0	61	636	697	174	523	113
9	235	0	235	888	1 123	281	842	46
10	389	0	389	935	1 324	331	993	-58
11	394	0	394	959	1 353	338	1 015	-56
12	330	0	330	1 030	1 360	340	1 020	10
13	352	0	352	1 001	1 353	338	1 015	-14
14	306	0	306	1 037	1 343	336	1 007	30
15	208	0	208	1 059	1 267	317	950	109
S.TOTAL. MEAN	2 971 198	0.0	2 971 198	11 175 745	14 146 943	3 535 236	10 611 707	564 37.6
16	291	0	291	1 125	1 416	354	1 062	63
17	343	0	343	1 128	1 471	368	1 103	25
18	264	0	264	1 165	1 429	357	1 072	93
19	347	0	347	1 140	1 487	372	1 115	25
20	247	0	247	1 145	1 392	348	1 044	101
21	318	0	318	1 209	1 527	382	1 145	64
22	201	0	201	1 358	1 559	390	1 169	189
23	117	0	117	1 517	1 634	410	1 224	293
24	49	0	49	1 654	1 703	444	1 259	395
25	-201	0	-201	1 857	1 656	421	1 235	622
S.TOTAL. MEAN	-267 -465 -626 -668 -673	0 0 0 0 0	-267 -465 -626 -668 -673	2 278 2 520 2 667 2 667 2 667	2 011 2 055 2 041 1 999 1 994	598 620 613 592 590	1 413 1 435 1 428 1 407 1 404	865 1 085 1 239 1 260 1 263
TOTAL MEAN	2 248 74.9	0.0	2 248 74.9	37 272 1 242	39 520 1 317	10 394 346	29 126 971	8 146 272

APPROVED BY FIELD REPRESENTATIVES FOR THE UNITED STATES AND CANADA

Table 6 (Continued)
NATURAL FLOW AND WATER DIVISION OF ST. MARY RIVER AT INTERNATIONAL BOUNDARY

MAY 2014

(QUANTITIES IN CUBIC DECAMETRES)

DAY	CHANGE IN CONTENTS OF LAKE SHERBURNE (WITH 1 DAY LAG)	DIVERTED BY ST. MARY CANAL	TOTAL USED BY UNITED STATES	ST. MARY RIVER AT INTERNATIONAL BOUNDARY	NATURAL FLOW AT INTERNATIONAL BOUNDARY	SHARES OF NATURAL FLOW	FLOW IN EXCESS OR DEFICIT (-) OF CANADIAN SHARE	
							UNITED STATES	CANADA
1	-651	0	-651	2 740	2 089	637	1 452	1 288
2	-563	0	-563	2 960	2 397	791	1 606	1 354
3	-247	0	-247	3 205	2 958	1 072	1 886	1 319
4	-171	0	-171	3 425	3 254	1 220	2 034	1 391
5	-215	0	-215	3 596	3 381	1 283	2 098	1 498
6	-311	0	-311	3 645	3 334	1 260	2 074	1 571
7	-338	0	-338	3 694	3 356	1 271	2 085	1 609
8	-428	0	-428	3 621	3 193	1 189	2 004	1 617
9	-458	0	-458	3 572	3 114	1 150	1 964	1 608
10	-426	0	-426	3 548	3 122	1 154	1 968	1 580
11	-365	0	-365	3 645	3 280	1 233	2 047	1 598
12	-435	0	-435	3 645	3 210	1 198	2 012	1 633
13	-435	42	-393	3 523	3 130	1 158	1 972	1 551
14	-374	311	-63	3 278	3 215	1 200	2 015	1 263
15	-223	570	347	3 132	3 479	1 332	2 147	985
S.TOTAL.	-5 640	923	-4 717	51 229	46 512	17 148	29 364	21 865
MEAN	-376	61.5	-314	3 415	3 101	1 143	1 958	1 458
16	88	832	920	3 401	4 321	1 753	2 568	833
17	582	1 045	1 627	3 743	5 370	2 278	3 092	651
18	572	1 218	1 790	3 866	5 656	2 421	3 235	631
19	497	1 287	1 784	4 184	5 968	2 577	3 391	793
20	732	1 253	1 985	4 551	6 536	2 861	3 675	876
21	734	1 270	2 004	4 844	6 848	3 017	3 831	1 013
22	864	1 417	2 281	5 187	7 468	3 327	4 141	1 046
23	1 284	1 451	2 735	5 994	8 729	3 957	4 772	1 222
24	1 808	1 495	3 303	6 997	10 300	4 743	5 557	1 440
25	2 341	1 512	3 853	7 902	11 755	5 470	6 285	1 617
26	2 050	1 522	3 572	8 172	11 744	5 465	6 279	1 893
27	1 529	1 495	3 024	8 416	11 440	5 313	6 127	2 289
28	1 576	1 495	3 071	8 587	11 658	5 422	6 236	2 351
29	1 451	1 502	2 953	8 612	11 565	5 375	6 190	2 422
30	1 157	1 485	2 642	8 172	10 814	5 000	5 814	2 358
31	798	1 451	2 249	7 609	9 858	4 522	5 336	2 273
S.TOTAL.	18 063	21 730	39 793	100 237	140 030	63 501	76 529	23 708
MEAN	1 129	1 358	2 487	6 265	8 752	3 969	4 783	1 482
TOTAL	12 423	22 653	35 076	151 466	186 542	80 649	105 893	45 573
MEAN	401	731	1 131	4 886	6 017	2 602	3 416	1 470

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Table 6 (Continued)
NATURAL FLOW AND WATER DIVISION OF ST. MARY RIVER AT INTERNATIONAL BOUNDARY

JUNE 2014
(QUANTITIES IN CUBIC DECAMETRES)

DAY	CHANGE IN CONTENTS OF LAKE SHERBURN (WITH 1 DAY LAG)	DIVERTED BY ST. MARY CANAL	TOTAL USED BY UNITED STATES	ST. MARY RIVER AT INTERNATIONAL BOUNDARY	NATURAL FLOW AT INTERNATIONAL BOUNDARY	SHARES OF NATURAL FLOW UNITED STATES	CANADA	FLOW IN EXCESS OR DEFICIT (-) OF CANADIAN SHARE
								ST. MARY AT INTERNATIONAL BOUNDARY
1	634	1 434	2 068	7 022	9 090	4 138	4 952	2 070
2	487	1 417	1 904	6 655	8 559	3 872	4 687	1 968
3	734	1 409	2 143	6 508	8 651	3 918	4 733	1 775
4	1 023	1 399	2 422	6 410	8 832	4 009	4 823	1 587
5	1 167	1 399	2 566	6 483	9 049	4 117	4 932	1 551
6	1 270	1 426	2 696	6 459	9 155	4 170	4 985	1 474
7	837	1 461	2 298	6 214	8 512	3 849	4 663	1 551
8	409	1 451	1 860	5 896	7 756	3 471	4 285	1 611
9	313	1 443	1 756	5 603	7 359	3 272	4 087	1 516
10	411	1 451	1 862	5 676	7 538	3 362	4 176	1 500
11	768	1 451	2 219	5 798	8 017	3 601	4 416	1 382
12	673	1 451	2 124	5 652	7 776	3 481	4 295	1 357
13	536	1 461	1 997	5 701	7 698	3 442	4 256	1 445
14	458	1 451	1 909	5 749	7 658	3 422	4 236	1 513
15	541	1 451	1 992	5 676	7 668	3 427	4 241	1 435
S.TOTAL. MEAN	10 261 684	21 555 1 437	31 816 2 121	91 502 6 100	123 318 8 221	55 551 3 703	67 767 4 518	23 735 1 582
16	382	1 443	1 825	5 505	7 330	3 258	4 072	1 433
17	301	1 409	1 710	8 979	10 689	4 937	5 752	3 227
18	1 862	1 133	2 995	16 001	18 996	9 091	9 05	6 096
19	2 647	1 089	3 736	20 845	24 581	11 883	12 698	8 147
20	2 855	993	3 848	19 352	23 200	11 193	12 007	7 345
21	1 221	1 236	2 457	17 028	19 485	9 335	10 150	6 878
22	401	1 218	1 619	15 805	17 424	8 305	9 119	6 686
23	-487	1 245	758	14 582	15 340	7 263	8 077	6 505
24	-969	1 348	379	13 040	13 419	6 302	7 117	5 923
25	-859	1 495	636	11 646	12 282	5 734	6 548	5 098
26	-480	1 478	998	11 059	12 057	5 621	6 436	4 623
27	186	1 451	1 637	10 520	12 157	5 671	6 486	4 034
28	83	1 434	1 517	9 811	11 328	5 257	6 071	3 740
29	274	1 426	1 700	9 297	10 997	5 091	5 906	3 391
30	230	1 417	1 647	8 954	10 601	4 893	5 708	3 246
S.TOTAL. MEAN	7 647 510	19 815 1 321	27 462 1 831	192 424 12 828	219 886 14 659	103 834 6 922	116 052 7 737	76 372 5 091
TOTAL. MEAN	17 908 1 379	41 370 1 379	59 278 1 976	283 926 9 464	343 204 11 440	159 385 5 313	183 819 6 127	100 107 3 337

APPROVED BY FIELD REPRESENTATIVES FOR THE UNITED STATES AND CANADA

Table 6 (Continued)
NATURAL FLOW AND WATER DIVISION OF ST. MARY RIVER AT INTERNATIONAL BOUNDARY

DAY	CHANGE IN CONTENTS OF LAKE SHERBURNE (WITH 1 DAY LAG)	DIVERTED BY ST. MARY CANAL	(QUANTITIES IN CUBIC DECAMETRES)			SHARES OF NATURAL FLOW AT INTERNATIONAL BOUNDARY	UNITED STATES	CANADA	FLOW IN EXCESS OR DEFICIT (-) OF CANADIAN SHARE
			TOTAL USED BY UNITED STATES	ST. MARY RIVER AT INTERNATIONAL BOUNDARY	NATURAL FLOW AT INTERNATIONAL BOUNDARY				
1	-22	1 417	1 395	8 563	9 958	4 572	5 386	3 177	
2	-250	1 443	1 193	8 098	9 291	4 238	5 053	3 045	
3	-316	1 443	1 127	7 731	8 858	4 022	4 836	2 895	
4	42	1 426	1 468	7 364	8 832	4 009	4 823	2 541	
5	440	1 426	1 866	7 168	9 034	4 110	4 924	2 244	
6	230	1 417	1 647	6 948	8 595	3 890	4 705	2 243	
7	147	1 426	1 573	6 801	8 374	3 780	4 594	2 207	
8	357	1 451	1 808	6 557	8 365	3 775	4 590	1 967	
9	294	1 451	1 745	6 214	7 959	3 572	4 387	1 827	
10	147	1 443	1 590	5 970	7 560	3 373	4 187	1 783	
11	169	1 443	1 612	5 798	7 410	3 298	4 112	1 686	
12	213	1 434	1 647	5 578	7 225	3 205	4 020	1 558	
13	20	1 434	1 454	5 334	6 788	2 987	3 801	1 533	
14	-147	1 426	1 279	5 064	6 343	2 764	3 579	1 485	
15	22	1 426	1 448	4 991	6 439	2 812	3 627	1 364	
S.TOTAL MEAN	1 346 89.7	21 506	22 852	98 179	121 031	54 407	66 624	31 555	
16	147	1 426	1 573	4 771	6 344	2 765	3 579	1 192	
17	-64	1 426	1 362	4 502	5 864	2 525	3 339	1 163	
18	-42	1 434	1 392	4 306	5 698	2 442	3 256	1 050	
19	-105	1 434	1 329	4 184	5 513	2 349	3 164	1 020	
20	-316	1 426	1 110	3 963	5 073	2 129	2 944	1 019	
21	-44	1 417	1 373	3 841	5 214	2 200	3 014	827	
22	-166	1 426	1 260	3 645	4 905	2 045	2 860	785	
23	-147	1 434	1 287	3 352	4 639	1 912	2 727	625	
24	-149	1 417	1 268	3 034	4 302	1 744	2 558	476	
25	22	1 426	1 448	2 789	4 237	1 711	2 526	263	
26	-252	1 443	1 191	2 471	3 662	1 424	2 238	233	
27	-230	1 434	1 204	2 204	3 408	1 297	2 111	93	
28	-294	1 426	1 132	1 989	3 121	1 153	1 968	21	
29	-294	1 417	1 123	1 835	2 958	1 072	1 886	-51	
30	-333	1 417	1 084	1 698	2 782	984	1 798	-100	
31	-333	1 443	1 110	1 541	2 651	918	1 733	-192	
S.TOTAL MEAN	-2 600 -163	22 846 1 428	20 246 1 265	50 125 3 133	70 371 4 398	28 670 1 792	41 701 2 606	8 424 527	
TOTAL MEAN	-1 254 -40.5	44 352 1 431	43 098 1 390	148 304 4 784	191 402 6 174	83 077 2 680	108 325 3 494	39 979 1 290	

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Table 6 (Continued)
NATURAL FLOW AND WATER DIVISION OF ST. MARY RIVER AT INTERNATIONAL BOUNDARY

AUGUST 2014

(QUANTITIES IN CUBIC DECAMETRES)

DAY	CHANGE IN CONTENTS OF LAKE SHERBURNE (WITH 1 DAY LAG)	DIVERTED BY ST. MARY CANAL	TOTAL USED BY UNITED STATES	ST. MARY RIVER AT INTERNATIONAL BOUNDARY	NATURAL FLOW AT INTERNATIONAL BOUNDARY	SHARES OF NATURAL FLOW OF CANADA	FLOW IN EXCESS OR DEFICIT (-) OF CANADIAN SHARE
1	-291	1 443	1 152	1 512	2 664	925	1 739 -227
2	-311	1 443	1 132	1 551	2 683	934	1 749 -198
3	-435	1 443	1 008	1 583	2 591	888	1 703 -120
4	-352	1 443	1 091	1 585	2 676	931	1 745 -160
5	-453	1 443	990	1 590	2 580	883	1 697 -107
6	-536	1 443	907	1 571	2 478	832	1 646 -75
7	-614	1 434	820	1 485	2 305	745	1 560 -75
8	-714	1 434	720	1 473	2 193	689	1 504 -31
9	-754	1 434	680	1 465	2 145	665	1 480 -15
10	-788	1 434	646	1 395	2 041	613	1 428 -33
11	-788	1 434	646	1 336	1 982	584	1 398 -62
12	-859	1 461	602	1 338	1 940	563	1 377 -39
13	-1 116	1 451	335	1 363	1 698	442	1 256 107
14	-1 162	1 451	289	1 399	1 688	437	1 251 148
15	-1 099	1 461	362	1 510	1 872	529	1 343 167
S.TOTAL. MEAN	-10 272 -685	21 652 1 443	11 380 759	22 156 1 477	33 536 2 236	10 660 711	22 876 1 525 -720 -48.0
16	-1 125	1 461	336	1 588	1 924	555	1 369 219
17	-1 233	1 451	218	1 585	1 803	494	1 309 276
18	-1 299	1 451	152	1 595	1 747	466	1 281 314
19	-1 155	1 461	306	1 578	1 884	535	1 349 229
20	-1 216	1 461	245	1 519	1 764	475	1 289 230
21	-986	1 451	465	1 639	2 104	645	1 459 180
22	-1 013	1 426	413	1 708	2 121	653	1 468 240
23	-949	1 426	477	1 747	2 224	705	1 519 228
24	-1 047	1 417	370	1 686	2 056	624	1 435 251
25	-1 054	1 417	363	1 625	1 988	587	1 401 224
26	-1 079	1 426	347	1 490	1 837	511	1 326 164
27	-1 050	1 443	393	1 363	1 756	471	1 285 78
28	-1 157	1 434	277	1 238	1 515	379	1 136 102
29	-1 072	1 409	337	1 595	1 595	399	1 196 62
30	-1 123	1 365	242	1 280	1 522	380	1 142 138
31	-1 236	1 365	129	1 262	1 391	348	1 043 219
S.TOTAL. MEAN	-17 794 -1 112	22 864 1 429	5 070 317	24 161 1 510	29 231 1 827	8 224 514	21 007 1 313 3 154 197
TOTAL. MEAN	-28 066 -905	44 516 1 436	16 450 531	46 317 1 494	62 767 2 025	18 884 609	43 883 1 416 2 434 78.5

APPROVED BY FIELD REPRESENTATIVES FOR THE UNITED STATES AND CANADA

Table 6 (Continued)
NATURAL FLOW AND WATER DIVISION OF ST. MARY RIVER AT INTERNATIONAL BOUNDARY

SEPTEMBER 2014

(QUANTITIES IN CUBIC DECAMETRES)

DAY	CHANGE IN CONTENTS OF LAKE SHERBURNE (WITH 1 DAY LAG)	DIVERTED BY ST. MARY CANAL	TOTAL USED BY UNITED STATES	ST. MARY RIVER AT INTERNATIONAL BOUNDARY	NATURAL FLOW AT INTERNATIONAL BOUNDARY	SHARES OF NATURAL FLOW CANADA	FLOW IN EXCESS OR DEFICIT (-) OF CANADIAN SHARE
1	-1 045	1 348	303	1 228	1 531	383	1 148 80
2	-1 118	1 280	162	1 267	1 429	357	1 072 195
3	-1 223	1 106	-117	1 429	1 312	328	984 445
4	-1 040	915	-125	1 566	1 441	360	1 081 485
5	-878	741	-137	1 578	1 441	360	1 081 497
6	-812	563	-249	1 598	1 349	337	1 012 586
7	-656	550	-106	1 483	1 377	344	1 033 450
8	-785	506	-279	1 424	1 145	286	859 565
9	-707	413	-294	1 441	1 147	287	860 581
10	-673	401	-272	1 480	1 208	302	906 574
11	-639	208	-431	1 661	1 230	308	922 739
12	-695	32	-663	1 788	1 125	281	844 944
13	-617	15	-602	1 705	1 103	276	827 878
14	-555	12	-543	1 615	1 072	268	804 811
15	-570	4	-566	1 556	990	248	742 814
S.TOTAL. MEAN	-12 013 -801	8 094 540	-3 919 -261	22 819 1 521	18 900 1 260	4 725 315	14 175 8 644 945 576
16	-480	0	-480	1 441	961	240	721 720
17	-323	0	-323	1 304	981	245	736 568
18	-183	0	-183	1 179	996	249	747 432
19	-42	0	-42	1 069	1 027	257	770 299
20	-56	0	-56	979	923	231	692 287
21	56	0	56	913	969	242	727 186
22	71	0	71	864	935	234	701 163
23	139	0	139	815	954	238	716 99
24	127	0	127	778	905	226	679 99
25	210	0	210	754	964	241	723 31
26	127	0	127	734	861	215	646 88
27	198	0	198	727	925	231	694 33
28	154	0	154	746	900	225	675 71
29	157	0	157	736	893	223	670 66
30	254	0	254	744	998	250	748 -4
S.TOTAL. MEAN	409 27.3	0 0.0	409 27.3	13 783 919	14 192 946	3 547 236	10 645 3 138 710 209
TOTAL MEAN	-11 604 -387	8 094 270	-3 510 -117	36 602 1 220	33 092 1 103	8 272 276	24 820 11 782 827 393

APPROVED BY FIELD REPRESENTATIVES FOR THE UNITED STATES AND CANADA

Table 6 (Continued)
NATURAL FLOW AND WATER DIVISION OF ST. MARY RIVER AT INTERNATIONAL BOUNDARY

OCTOBER 2014

(QUANTITIES IN CUBIC DECAMETRES)

DAY	CHANGE IN CONTENTS OF LAKES SHERBURNE (WITH 1 DAY LAG)	DIVERTED BY ST. MARY CANAL	TOTAL USED BY UNITED STATES	ST. MARY RIVER AT INTERNATIONAL BOUNDARY	NATURAL FLOW AT INTERNATIONAL BOUNDARY	SHARES OF NATURAL FLOW	FLOW IN EXCESS OR DEFICIT (-) OF CANADIAN SHARE	
							UNITED STATES	CANADA
1	115	0	115	724	839	210	629	95
2	142	0	142	763	905	226	679	84
3	343	0	343	749	1 092	273	819	-70
4	330	0	330	773	1 103	276	827	-54
5	100	0	100	729	829	207	622	107
6	115	0	115	707	822	206	616	91
7	186	0	186	680	866	216	650	30
8	174	0	174	658	832	203	624	34
9	245	0	245	651	896	224	672	-21
10	218	0	218	648	866	216	650	-2
11	218	0	218	643	861	215	646	-3
12	188	0	188	646	834	208	626	20
13	161	0	161	646	807	202	605	41
14	130	0	130	641	771	193	578	63
15	176	0	176	609	785	196	589	20
S.TOTAL. MEAN	2 841 189	0.0	2 841 189	10 267 684	13 108 874	3 276 218	9 832 655	435 29.0
16	203	0	203	592	795	199	596	-4
17	132	0	132	582	714	178	536	46
18	117	0	117	558	675	169	506	52
19	220	0	220	577	797	199	598	-21
20	44	0	44	558	602	150	452	106
21	117	0	117	546	663	166	497	49
22	237	0	237	558	795	199	596	-38
23	117	0	117	565	682	170	512	53
24	235	0	235	648	883	221	662	-14
25	372	0	372	692	1 064	266	798	-106
26	431	0	431	798	1 229	307	922	-124
27	450	0	450	837	1 287	322	965	-128
28	345	0	345	903	1 248	312	936	-33
29	330	0	330	949	1 279	320	959	-10
30	272	0	272	944	1 216	304	912	32
31	257	0	257	922	1 179	295	884	38
S.TOTAL. MEAN	3 879 242	0.0	3 879 242	11 229 702	15 108 944	3 777 236	11 331 708	-102 -6.4
TOTAL. MEAN	6 720 217	0.0	6 720 217	21 496 693	28 216 910	7 053 228	21 163 683	333 10.7
NATURAL FLOW OF ST. MARY RIVER								
APPROVED BY:								
								
FOR THE UNITED STATES								
								
FOR CANADA								

**Table 7: HISTORICAL SUMMARY OF COMPUTED NATRUAL FLOW
ST. MARY AT INTERNATIONAL BOUNDARY
(VALUES IN CUBIC DECAMETRES)**

Period	Computed Natural Flow				Share April to October	
	Non - Irrigation Season (Nov to Mar)		Irrigation Season (Apr to Oct)		United States	Canada
	Year	Year	Flow	Flow		
1902	-	1903	71,500	1,033,000	434,300	599,100
1903	-	1904	118,900	684,800	270,100	414,700
1904	-	1905	48,260	569,700	212,400	357,300
1905	-	1906	63,640	630,700	236,000	394,700
1906	-	1907	153,100	969,500	402,800	566,700
1907	-	1908	77,020	1,123,000	485,500	637,800
1908	-	1909	80,520	968,900	408,500	560,300
1909	-	1910	108,200	679,700	257,700	422,000
1910	-	1911	120,100	802,800	318,700	484,200
1911	-	1912	72,890	623,900	234,600	389,300
1912	-	1913	85,860	849,600	346,400	503,200
1913	-	1914	72,240	654,100	245,200	409,000
1914	-	1915	103,600	654,100	243,400	410,800
1915	-	1916	135,400	973,300	405,600	567,700
1916	-	1917	72,560	807,400	330,300	477,000
1917	-	1918	112,600	631,300	239,900	391,400
1918	-	1919	61,290	476,500	175,900	300,600
1919	-	1920	75,270	715,400	280,700	434,700
1920	-	1921	88,960	784,700	315,400	469,300
1921	-	1922	79,750	698,000	281,800	416,200
1922	-	1923	58,210	719,400	283,500	435,900
1923	-	1924	63,410	641,600	250,900	390,700
1924	-	1925	96,980	889,000	364,500	524,500
1925	-	1926	60,690	458,700	152,700	306,000
1926	-	1927	92,310	1,154,000	495,100	658,700
1927	-	1928	138,300	905,900	373,400	532,400
1928	-	1929	81,460	527,300	200,300	327,000
1929	-	1930	64,600	660,600	258,100	402,500
1930	-	1931	47,930	461,400	165,500	295,900
1931	-	1932	103,300	636,300	249,700	386,500
1932	-	1933	83,250	793,400	322,000	471,500
1933	-	1934	207,600	775,900	318,000	458,000
1934	-	1935	168,500	576,700	221,500	355,300
1935	-	1936	37,010	511,700	194,400	317,300
1936	-	1937	41,960	617,600	246,800	370,800
1937	-	1938	80,500	705,500	284,000	421,600
1938	-	1939	73,220	497,100	184,700	312,400
1939	-	1940	46,650	449,100	157,700	291,400

Continued ...

**Table 7 (continued): HISTORICAL SUMMARY OF COMPUTED NATURAL FLOW
ST. MARY RIVER AT INTERNATIONAL BOUNDARY
(VALUES IN CUBIC DECAMETRES)**

Period	Computed Natural Flow				Share April to October	
	Non - Irrigation Season (Nov to Mar)		Irrigation Season (Apr to Oct)		United States	Canada
	Year	Flow	Year	Flow		
1940	-	1941	40,510	413,000	135,500	277,500
1941	-	1942	116,300	660,700	255,000	405,700
1942	-	1943	78,160	833,600	343,100	490,500
1943	-	1944	44,830	392,400	131,800	260,600
1944	-	1945	57,320	623,800	246,800	377,000
1945	-	1946	94,750	660,600	255,200	405,400
1946	-	1947	107,100	770,900	303,300	467,600
1947	-	1948	88,050	894,300	378,600	515,700
1948	-	1949	43,690	563,300	210,000	353,200
1949	-	1950	118,600	945,800	395,700	550,200
1950	-	1951	174,400	1,092,000	459,300	632,600
1951	-	1952	102,200	637,800	246,800	391,000
1952	-	1953	77,150	970,700	414,800	556,000
1953	-	1954	77,240	981,700	410,300	571,400
1954	-	1955	97,770	727,400	293,100	434,300
1955	-	1956	109,800	804,700	326,700	478,000
1956	-	1957	73,220	672,600	272,900	399,700
1957	-	1958	72,180	654,600	254,200	400,400
1958	-	1959	115,300	881,600	355,200	526,400
1959	-	1960	117,700	595,700	227,300	368,400
1960	-	1961	72,160	699,100	276,000	423,100
1961	-	1962	74,860	611,000	230,000	381,000
1962	-	1963	122,700	629,900	248,000	381,800
1963	-	1964	54,720	942,300	396,500	545,800
1964	-	1965	83,860	828,000	333,900	494,100
1965	-	1966	87,680	712,100	279,600	432,500
1966	-	1967	81,470	840,500	354,000	486,500
1967	-	1968	116,600	720,900	281,200	439,700
1968	-	1969	97,360	669,700	262,000	407,700
1969	-	1970	66,380	738,700	305,600	433,100
1970	-	1971	83,120	850,900	351,400	499,500
1971	-	1972	106,600	928,700	382,500	546,100
1972	-	1973	67,390	501,800	189,000	312,800
1973	-	1974	130,500	849,900	353,700	496,200
1974	-	1975	50,050	1,024,000	437,100	586,600
1975	-	1976	148,600	716,600	282,600	434,000
1976	-	1977	46,900	406,500	131,300	275,200
1977	1978		72,760	766,600	303,500	463,200
1978	-	1979	75,210	611,700	240,200	371,500
1979	1980		45,120	680,000	264,900	415,100

Continued ...

**Table 7 (continued): HISTORICAL SUMMARY OF COMPUTED NATURAL FLOW
ST. MARY RIVER AT INTERNATIONAL BOUNDARY
(VALUES IN CUBIC DECAMETRES)**

Period			Computed Natural Flow		Share April to October	
			Non - Irrigation Season (Nov to Mar)	Irrigation Season (Apr to Oct)	United States	Canada
1980	-	1981	134,200	674,700	270,700	404,000
1981	-	1982	57,200	685,900	274,300	411,600
1982	-	1983	60,010	517,900	193,800	324,100
1983	-	1984	83,050	534,200	195,800	338,400
1984	-	1985	50,470	670,800	254,800	416,000
1985	-	1986	165,000	589,500	216,000	373,500
1986	-	1987	86,590	600,800	228,200	372,600
1987	-	1988	39,370	496,000	182,200	313,800
1988	-	1989	80,730	775,300	308,400	466,900
1989	-	1990	196,800	738,300	289,800	448,500
1990	-	1991	138,000	905,000	381,000	524,000
1991	-	1992	59,160	478,300	164,400	313,900
1992	-	1993	75,110	629,700	235,100	394,600
1993	-	1994	79,800	534,500	202,300	332,200
1994	-	1995	92,460	877,700	365,200	512,600
1995	-	1996	234,500	781,800	314,300	467,500
1996	-	1997	94,070	917,200	378,000	539,100
1997	-	1998	62,430	631,900	252,300	379,500
1998	-	1999	60,620	698,100	274,500	423,600
1999	-	2000	157,900	548,300	203,700	344,500
2000	-	2001	32,490	417,900	156,300	261,700
2001	-	2002	69,030	981,100	419,600	561,500
2002	-	2003	69,690	534,000	201,500	332,500
2003	-	2004	61,950	639,400	239,500	399,900
2004	-	2005	119,800	591,500	222,900	368,700
2005	-	2006	106,200	657,300	263,100	394,200
2006	-	2007	233,900	501,700	183,900	317,800
2007	-	2008	69,840	796,000	331,400	464,600
2008	-	2009	56,750	547,900	207,600	340,300
2009	-	2010	74,750	724,700	286,300	438,400
2010	-	2011	105,800	936,600	394,800	541,800
2011	-	2012	76,090	783,300	320,700	462,600
2012	-	2013	154,200	698,400	273,800	424,600
2013	-	2014	68,970	884,700	367,700	517,000
AVERAGE	1903	- 2013	90,770	710,900	282,500	428,500

Table 8: Summary of Daily
Net Change, Natural Flow, Evaporative and Net Consumptive Uses of
Milk River at Eastern Crossing of International Boundary
March, 2014

Date at Eastern Crossing	Natural Flow at Western Crossing	East to West Net Change	Incremental Evaporative Trans. Loss	Total Consumptive Use		Natural Flow at Eastern Crossing	Share		Excess / Deficit to U.S.	Cumulative Excess / Deficit to U.S.
				U.S.	Canada		U.S.	Canada		
	C9,T2	C10,T2	C8,T4	C3,T3	C8,T3			(9-6)		
1	2	3	4	5	6	7	8	9	10	11
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Mar 01	0.0	-	4.3	0.0	0.0	146.8	73.4	73.4	73.4	73.4
Mar 02	0.0	-	4.6	0.0	0.0	159.0	79.5	79.5	79.5	152.9
Mar 03	0.0	-	5.0	0.0	0.0	171.3	85.6	85.7	85.7	238.6
Mar 04	0.0	-	5.0	0.0	0.0	171.3	85.6	85.7	85.7	324.3
Mar 05	0.0	-	5.7	0.0	0.0	195.7	97.8	97.9	97.9	422.2
Mar 06	54.3	-	3.8	0.0	0.0	195.7	97.8	97.9	97.9	520.1
Mar 07	63.4	-	3.9	0.0	0.0	220.2	110.1	110.1	110.1	630.2
Mar 08	71.6	-	3.4	0.0	0.0	220.2	110.1	110.1	110.1	740.3
Mar 09	83.1	-	3.3	0.0	0.0	244.7	122.4	122.3	122.3	862.6
Mar 10	92.4	-	7.1	0.0	0.0	489.3	244.6	244.7	244.7	1107.3
Mar 11	96.4	-	20.7	0.0	0.0	1957.3	978.6	978.7	978.7	2086.0
Mar 12	113.5	-	77.4	0.0	0.0	7339.7	3669.8	3669.9	3669.9	5755.9
Mar 13	163.1	-	59.5	0.0	0.0	6116.4	3058.2	3058.2	3058.2	8814.1
Mar 14	626.5	-	62.0	0.0	0.0	6850.4	3425.2	3425.2	3425.2	12239.3
Mar 15	1764.7	-	51.5	0.0	0.0	5871.8	2935.9	2935.9	2935.9	15175.2
15 day Total	3129.0	0.0	317.2	0.0	0.0	30349.8	15174.6	15175.2	15175.2	#N/A
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Mar 16	1250.3	-	38.7	0.0	0.0	4893.2	2446.6	2446.6	2446.6	2446.6
Mar 17	1083.4	-	26.2	0.0	0.0	3914.5	1957.2	1957.3	1957.3	4403.9
Mar 18	1097.9	-	16.5	0.0	0.0	3156.1	1578.0	1578.1	1578.1	5982.0
Mar 19	1011.8	-	11.0	0.0	0.0	2691.2	1345.6	1345.6	1345.6	7327.6
Mar 20	789.4	-	10.0	0.0	0.0	2412.3	1206.2	1206.1	1206.1	8533.7
Mar 21	731.7	-	6.0	0.0	0.0	1705.3	852.6	852.7	852.7	9386.4
Mar 22	709.3	-	1.0	0.0	0.0	809.8	404.9	404.9	404.9	9791.3
Mar 23	567.6	-	0.6	0.0	0.0	614.1	307.0	307.1	307.1	10098.4
Mar 24	377.2	-	5.8	0.0	0.0	893.0	446.5	446.5	446.5	10544.9
Mar 25	240.4	-	4.2	0.0	0.0	474.6	237.3	237.3	237.3	10782.2
Mar 26	130.9	-	5.1	0.0	0.0	411.0	205.5	205.5	205.5	10987.7
Mar 27	136.3	-	4.7	0.0	0.0	389.0	194.5	194.5	194.5	11182.2
Mar 28	199.8	-	4.2	0.0	0.0	423.3	211.6	211.7	211.7	11393.9
Mar 29	218.1	-	2.3	0.0	0.0	337.6	168.8	168.8	168.8	11562.7
Mar 30	173.6	-	5.7	0.0	0.0	482.0	241.0	241.0	241.0	11803.7
Mar 31	177.9	-	11.0	0.0	0.0	802.5	401.2	401.3	401.3	12205.0
16 day Total	8895.6	0.0	153.0	0.0	0.0	24409.5	12204.5	12205.0	12205.0	#N/A
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Mar Totals	12024.6	0.0	470.2	0.0	0.0	54759.3	27379.1	27380.2	27380.2	

All figures in cubic decametres.

Five day lag period is applied between west and east to determine natural flow at Eastern Crossing.

Grey areas indicate natural flow equal to the recorded flow at the gauge (11AA031) Milk River at Eastern Crossing plus United States and Canadian consumptive use.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

Table 8 (Continued)

**Summary of Daily
Net Change, Natural Flow, Evaporative and Net Consumptive Uses of
Milk River at Eastern Crossing of International Boundary
April, 2014**

Date at Eastern Crossing	Natural Flow at Western Crossing	East to West Net Change	Incremental Evaporative Trans. Loss	Total Consumptive Use		Natural Flow at Eastern Crossing	Share		Excess / Deficit to U.S. (9-6)	Cumulative Excess / Deficit to U.S.
				U.S.	Canada		U.S.	Canada		
				C9,T2	C10,T2	C8,T4	C3,T3	C8,T3		
1	2	3	4	5	6	7	8	9	10	11
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Apr 01	171.1	-	9.4	0.0	0.0	636.1	477.1	159.0	159.0	159.0
Apr 02	251.5	-	6.7	0.0	0.0	689.9	517.4	172.5	172.5	331.5
Apr 03	160.2	-	9.6	0.0	0.0	780.5	585.4	195.1	195.1	526.6
Apr 04	158.2	-	9.4	0.0	0.0	966.4	724.8	241.6	241.6	768.2
Apr 05	241.2	-	15.5	0.0	0.0	1105.9	829.4	276.5	276.5	1044.7
Apr 06	214.3	-	12.4	0.0	0.0	1061.8	796.3	265.5	265.5	1310.2
Apr 07	212.5	-	20.7	0.0	0.0	1037.3	778.0	259.3	259.3	1569.5
Apr 08	221.8	-	23.1	0.0	0.0	976.2	732.2	244.0	244.0	1813.5
Apr 09	302.9	-	18.5	0.0	0.0	1189.0	891.8	297.2	297.2	2110.7
Apr 10	448.4	-	12.2	0.0	0.0	1328.5	996.4	332.1	332.1	2442.8
Apr 11	544.9	-	6.9	0.0	0.0	1460.6	1095.4	365.2	365.2	2808.0
Apr 12	693.5	-	3.8	0.0	0.0	1619.6	1214.7	404.9	404.9	3212.9
Apr 13	985.2	-	2.5	0.0	0.0	1277.1	957.8	319.3	319.3	3532.2
Apr 14	1140.8	-	-1.2	0.0	0.0	1083.8	812.8	271.0	271.0	3803.2
Apr 15	1285.0	-	-2.5	0.0	0.0	959.1	719.3	239.8	239.8	4043.0
15 day Total	7031.5	0.0	147.0	0.0	0.0	16171.8	12128.8	4043.0	4043.0	#N/A
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Apr 16	1020.1	-	-0.3	0.0	0.0	907.7	680.8	226.9	226.9	226.9
Apr 17	830.0	-	-0.2	0.0	0.0	814.7	611.0	203.7	203.7	430.6
Apr 18	681.3	-	0.1	0.0	0.0	682.6	512.0	170.6	170.6	601.2
Apr 19	515.8	-	2.1	0.0	0.0	665.5	499.1	166.4	166.4	767.6
Apr 20	483.7	-	2.4	0.0	0.0	601.9	451.4	150.5	150.5	918.1
Apr 21	478.9	-	1.3	0.0	0.0	545.6	409.2	136.4	136.4	1054.5
Apr 22	447.3	-	3.7	0.0	0.0	523.6	392.7	130.9	130.9	1185.4
Apr 23	447.7	-	5.0	0.0	0.0	614.1	460.6	153.5	153.5	1338.9
Apr 24	459.6	-	2.8	0.0	0.0	611.6	458.7	152.9	152.9	1491.8
Apr 25	437.0	-	4.1	0.0	0.0	535.8	401.8	134.0	134.0	1625.8
Apr 26	420.5	-	0.9	0.0	0.0	584.7	438.5	146.2	146.2	1772.0
Apr 27	450.8	-	5.6	0.0	0.0	689.9	517.4	172.5	172.5	1944.5
Apr 28	473.1	-	3.9	0.0	0.0	682.6	512.0	170.6	170.6	2115.1
Apr 29	495.4	-	3.7	0.0	0.0	741.3	556.0	185.3	185.3	2300.4
Apr 30	489.6	-	3.4	0.0	0.0	702.2	526.7	175.5	175.5	2475.9
15 day Total	8130.8	0.0	38.5	0.0	0.0	9903.8	7427.9	2475.9	2475.9	#N/A
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Apr Totals	15162.3	0.0	185.5	0.0	0.0	26075.6	19556.7	6518.9	6518.9	

All figures in cubic decametres.

Five day lag period is applied between west and east to determine natural flow at Eastern Crossing.

Grey areas indicate natural flow equal to the recorded flow at the gauge (11AA031) Milk River at Eastern Crossing plus United States and Canadian consumptive use.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

Table 8 (Continued)

**Summary of Daily
Net Change, Natural Flow, Evaporative and Net Consumptive Uses of
Milk River at Eastern Crossing of International Boundary**
May, 2014

Date at Eastern Crossing	Natural Flow at Western Crossing	East to West Net Change	Incremental Evaporative Trans. Loss	Total Consumptive Use		Natural Flow at Eastern Crossing	Share		Excess / Deficit to U.S.	Cumulative Excess / Deficit to U.S.			
				U.S.	Canada		U.S.	Canada					
				C9,T2	C10,T2	C8,T4	C3,T3	C8,T3	7	8	9	(9-6)	10
1	2	3	4	5	6								
Accumulated deficit including carry over from previous division period											#N/A		
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).													
May 01	471.6	-	4.8	0.0	0.0	685.0	513.8	171.2	171.2	171.2			
May 02	500.2	-	0.8	0.0	0.0	719.3	539.5	179.8	179.8	351.0			
May 03	531.2	-	1.1	0.0	0.0	795.1	596.3	198.8	198.8	549.8			
May 04	511.6	-	1.3	0.0	0.0	780.5	585.4	195.1	195.1	744.9			
May 05	469.2	-	2.1	0.0	0.0	675.3	506.5	168.8	168.8	913.7			
May 06	444.3	-	2.5	0.0	0.0	709.5	532.1	177.4	177.4	1091.1			
May 07	492.5	-	4.1	0.0	0.0	844.1	633.1	211.0	211.0	1302.1			
May 08	643.2	-	5.6	0.0	0.0	1042.2	781.7	260.5	260.5	1562.6			
May 09	708.6	-	2.6	0.0	0.0	1025.1	768.8	256.3	256.3	1818.9			
May 10	687.9	-	1.3	0.0	0.0	946.8	710.1	236.7	236.7	2055.6			
May 11	632.3	-	2.5	0.0	0.0	880.8	660.6	220.2	220.2	2275.8			
May 12	580.1	-	2.8	0.0	0.0	765.8	574.3	191.5	191.5	2467.3			
May 13	512.6	-	1.6	0.0	0.0	611.6	458.7	152.9	152.9	2620.2			
May 14	444.9	-	5.2	0.0	0.0	599.4	449.6	149.8	149.8	2770.0			
May 15	441.1	-	3.8	0.0	0.0	601.9	451.4	150.5	150.5	2920.5			
15 day Total	8071.3	0.0	42.1	0.0	0.0	11682.4	8761.9	2920.5	2920.5				
Accumulated deficit including carry over from previous division period											#N/A		
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).													
May 16	487.8	-	1.1	100.2	61.3	731.6	548.7	182.9	121.6	121.6			
May 17	508.9	-	1.9	100.2	61.3	770.7	578.0	192.7	131.4	253.0			
May 18	513.6	-	1.0	100.2	61.3	726.7	545.0	181.7	120.4	373.4			
May 19	448.5	-	2.7	100.2	61.3	702.2	526.7	175.5	114.2	487.6			
May 20	441.8	167.2	9.4	100.2	61.3	779.9	584.9	195.0	133.7	621.3			
May 21	481.2	448.2	28.2	100.2	61.3	1119.1	839.3	279.8	218.5	839.8			
May 22	579.6	187.9	32.7	100.2	61.3	961.7	721.3	240.4	179.1	1018.9			
May 23	566.0	143.4	46.0	100.2	61.3	916.9	687.7	229.2	167.9	1186.8			
May 24	511.8	-26.0	32.9	100.2	61.3	680.2	510.2	170.0	108.7	1295.5			
May 25	498.7	-97.1	33.8	100.2	61.3	596.9	447.7	149.2	87.9	1383.4			
May 26	489.7	36.3	45.9	100.2	61.3	733.4	550.0	183.4	122.1	1505.5			
May 27	478.4	44.9	52.7	100.2	61.3	737.5	553.1	184.4	123.1	1628.6			
May 28	460.4	-138.7	47.0	100.2	61.3	530.2	397.7	132.5	71.2	1699.8			
May 29	455.4	-191.7	55.5	100.2	61.3	480.7	360.5	120.2	58.9	1758.7			
May 30	449.3	-255.9	55.8	100.2	61.3	410.7	308.0	102.7	41.4	1800.1			
May 31	435.0	-272.5	24.7	100.2	61.3	348.7	261.5	87.2	25.9	1826.0			
16 day Total	7806.1	46.0	471.3	1603.2	980.8	11227.1	8420.3	2806.8	1826.0				
Accumulated deficit including carry over from previous division period											#N/A		
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).													
May Totals	15877.4	46.0	513.4	1603.2	980.8	22909.5	17182.2	5727.3	4746.5				

All figures in cubic decametres.

Five day lag period is applied between west and east to determine natural flow at Eastern Crossing.

Grey areas indicate natural flow equal to the recorded flow at the gauge (11AA031) Milk River at Eastern Crossing plus United States and Canadian consumptive use.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

Table 8 (Continued)

**Summary of Daily
Net Change, Natural Flow, Evaporative and Net Consumptive Uses of
Milk River at Eastern Crossing of International Boundary
June, 2014**

Date at Eastern Crossing	Natural Flow at Western Crossing	East to West Net Change	Incremental Evaporative Trans. Loss	Total Consumptive Use		Natural Flow at Eastern Crossing	Share		Excess / Deficit to U.S.	Cumulative Excess / Deficit to U.S.
				U.S.	Canada		U.S.	Canada		
				C9,T2	C10,T2	C8,T4	C3,T3	C8,T3	(9-6)	
1	2	3	4	5	6	7	8	9	10	11
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Jun 01	407.6	-266.1	41.2	100.2	63.9	346.8	260.1	86.7	22.8	22.8
Jun 02	406.0	-334.7	48.3	100.2	63.9	283.7	212.8	70.9	7.0	29.8
Jun 03	401.9	-323.0	36.4	100.2	63.9	279.4	209.6	69.8	5.9	35.7
Jun 04	424.1	-398.6	37.2	100.2	63.9	226.8	170.1	56.7	-7.2	28.5
Jun 05	374.0	-336.6	32.9	100.2	63.9	234.4	175.8	58.6	-5.3	23.2
Jun 06	334.6	-273.9	33.7	100.2	63.9	258.5	193.9	64.6	0.7	23.9
Jun 07	326.2	-242.0	44.2	100.2	63.9	292.5	219.4	73.1	9.2	33.1
Jun 08	328.7	-286.8	47.7	100.2	63.9	253.7	190.3	63.4	-0.5	32.6
Jun 09	336.8	-309.3	47.9	100.2	63.9	239.5	179.6	59.9	-4.0	28.6
Jun 10	338.8	-298.9	35.9	100.2	63.9	239.9	179.9	60.0	-3.9	24.7
Jun 11	328.7	-309.5	37.3	100.2	63.9	220.6	165.4	55.2	-8.7	16.0
Jun 12	304.7	-322.1	50.7	100.2	63.9	197.4	148.0	49.4	-14.5	1.5
Jun 13	283.7	-303.1	22.0	100.2	63.9	166.7	125.0	41.7	-22.2	-20.7
Jun 14	268.8	-141.7	22.8	100.2	63.9	314.0	235.5	78.5	14.6	-6.1
Jun 15	256.1	-25.4	54.6	100.2	63.9	449.4	337.0	112.4	48.5	42.4
15 day Total	5120.7	-4171.7	592.8	1503.0	958.5	4003.3	3002.4	1000.9	42.4	
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Jun 16	259.2	-13.1	16.7	14.7	24.2	301.7	226.3	75.4	51.2	51.2
Jun 17	260.2	770.0	18.2	14.7	24.2	1087.3	815.5	271.8	247.6	298.8
Jun 18	281.9	420.1	30.4	14.7	24.2	771.3	578.5	192.8	168.6	467.4
Jun 19	317.6	865.6	51.4	14.7	24.2	1273.5	955.1	318.4	294.2	761.6
Jun 20	398.0	4316.7	242.3	14.7	24.2	4995.9	2905.7	2090.2	2066.0	2827.6
Jun 21	414.8	8512.0	400.8	14.7	24.2	9366.5	5091.0	4275.5	4251.3	7078.9
Jun 22	856.5	5320.8	315.7	14.7	24.2	6531.9	3673.7	2858.2	2834.0	9912.9
Jun 23	2679.4	972.3	205.6	14.7	24.2	3896.2	2355.9	1540.3	1516.1	11429.0
Jun 24	7764.0	-5294.3	-72.5	14.7	24.2	2436.1	1625.8	810.3	786.1	12215.1
Jun 25	6942.9	-4501.1	-93.5	14.7	24.2	2387.2	1601.4	785.8	761.6	12976.7
Jun 26	3226.1	-1095.5	8.9	14.7	24.2	2178.4	1497.0	681.4	657.2	13633.9
Jun 27	1363.2	516.0	69.3	14.7	24.2	1987.4	1401.5	585.9	561.7	14195.6
Jun 28	1085.3	984.9	85.2	14.7	24.2	2194.3	1504.9	689.4	665.2	14860.8
Jun 29	989.9	1108.1	89.1	14.7	24.2	2226.0	1520.8	705.2	681.0	15541.8
Jun 30	868.7	778.5	62.5	14.7	24.2	1748.6	1282.1	466.5	442.3	15984.1
15 day Total	27707.7	13661.0	1430.1	220.5	363.0	43382.3	27035.2	16347.1	15984.1	
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Jun Totals	32828.4	9489.3	2022.9	1723.5	1321.5	47385.6	30037.6	17348.0	16026.5	

All figures in cubic decametres.

Five day lag period is applied between west and east to determine natural flow at Eastern Crossing.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

Table 8 (Continued)**Summary of Daily**
**Net Change, Natural Flow, Evaporative and Net Consumptive Uses of
Milk River at Eastern Crossing of International Boundary**
July, 2014

Date at Eastern Crossing	Natural Flow at Western Crossing	East to West Net Change	Incremental Evaporative Trans. Loss	Total Consumptive Use		Natural Flow at Eastern Crossing	Share		Excess / Deficit to U.S.	Cumulative Excess / Deficit to U.S.
				U.S.	Canada		U.S.	Canada		
	C9,T2	C10,T2	C8,T4	C3,T3	C8,T3	7	8	9	(9-6)	11
1	2	3	4	5	6	7	8	9	10	11
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Jul 01	978.6	519.1	89.3	26.8	44.1	1657.9	1236.7	421.2	377.1	377.1
Jul 02	921.2	377.9	94.6	26.8	44.1	1464.6	1098.4	366.2	322.1	699.2
Jul 03	1047.3	243.5	91.2	26.8	44.1	1452.9	1089.7	363.2	319.1	1018.3
Jul 04	837.6	451.9	76.4	26.8	44.1	1436.8	1077.6	359.2	315.1	1333.4
Jul 05	684.0	496.7	88.5	26.8	44.1	1340.1	1005.1	335.0	290.9	1624.3
Jul 06	607.7	408.2	74.4	26.8	44.1	1161.2	870.9	290.3	246.2	1870.5
Jul 07	555.9	319.4	62.1	26.8	44.1	1008.3	756.2	252.1	208.0	2078.5
Jul 08	512.6	388.8	70.9	26.8	44.1	1043.2	782.4	260.8	216.7	2295.2
Jul 09	476.7	377.5	72.7	26.8	44.1	997.8	748.3	249.5	205.4	2500.6
Jul 10	437.5	329.4	72.0	26.8	44.1	909.8	682.3	227.5	183.4	2684.0
Jul 11	405.7	260.0	61.9	26.8	44.1	798.5	598.9	199.6	155.5	2839.5
Jul 12	381.7	263.4	67.7	26.8	44.1	783.7	587.8	195.9	151.8	2991.3
Jul 13	364.7	143.8	73.8	26.8	44.1	653.2	489.9	163.3	119.2	3110.5
Jul 14	351.0	44.5	69.3	26.8	44.1	535.7	401.8	133.9	89.8	3200.3
Jul 15	334.9	-34.4	47.3	26.8	44.1	418.7	314.0	104.7	60.6	3260.9
15 day Total	8897.1	4589.7	1112.1	402.0	661.5	15662.4	11740.0	3922.4	3260.9	#N/A
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Jul 16	338.1	-138.9	53.0	26.8	44.1	323.1	242.3	80.8	36.7	36.7
Jul 17	313.1	-143.6	62.1	26.8	44.1	302.5	226.9	75.6	31.5	68.2
Jul 18	288.1	-138.5	48.5	26.8	44.1	269.0	201.8	67.2	23.1	91.3
Jul 19	266.6	-109.4	57.6	26.8	44.1	285.7	214.3	71.4	27.3	118.6
Jul 20	254.6	-60.3	47.1	26.8	44.1	312.3	234.2	78.1	34.0	152.6
Jul 21	267.9	-37.5	47.4	26.8	44.1	348.7	261.5	87.2	43.1	195.7
Jul 22	326.7	-97.7	44.5	26.8	44.1	344.4	258.3	86.1	42.0	237.7
Jul 23	286.1	-51.9	47.0	26.8	44.1	352.1	264.1	88.0	43.9	281.6
Jul 24	243.4	-6.7	51.8	26.8	44.1	359.4	269.5	89.9	45.8	327.4
Jul 25	217.6	3.0	73.2	26.8	44.1	364.7	273.5	91.2	47.1	374.5
Jul 26	197.6	-6.7	68.4	26.8	44.1	330.2	247.6	82.6	38.5	413.0
Jul 27	187.9	-108.7	64.0	26.8	44.1	214.1	160.6	53.5	9.4	422.4
Jul 28	189.7	-110.8	66.2	26.8	44.1	216.0	162.0	54.0	9.9	432.3
Jul 29	185.1	-180.0	72.7	26.8	44.1	148.7	111.5	37.2	-6.9	425.4
Jul 30	175.6	-155.1	69.6	26.8	44.1	161.0	120.8	40.2	-3.9	421.5
Jul 31	162.9	-181.4	73.9	26.8	44.1	126.3	94.7	31.6	-12.5	409.0
16 day Total	3901.0	-1524.2	947.0	428.8	705.6	4458.2	3343.6	1114.6	409.0	#N/A
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Jul Totals	12798.1	3065.5	2059.1	830.8	1367.1	20120.6	15083.6	5037.0	3669.9	

All figures in cubic decametres.

Five day lag period is applied between west and east to determine natural flow at Eastern Crossing.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

Table 8 (Continued)

**Summary of Daily
Net Change, Natural Flow, Evaporative and Net Consumptive Uses of
Milk River at Eastern Crossing of International Boundary
August, 2014**

Date at Eastern Crossing	Natural Flow at Western Crossing	East to West Net Change	Incremental Evaporative Trans. Loss	Total Consumptive Use		Natural Flow at Eastern Crossing	Share		Excess / Deficit to U.S.	Cumulative Excess / Deficit to U.S.
				U.S.	Canada		U.S.	Canada		
				C9,T2	C10,T2	C8,T4	C3,T3	C8,T3	(9-6)	
1	2	3	4	5	6	7	8	9	10	11
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Aug 01	139.0	-169.9	61.5	21.6	36.3	88.5	66.4	22.1	-14.2	-14.2
Aug 02	128.7	-171.6	46.7	21.6	36.3	61.7	46.3	15.4	-20.9	-35.1
Aug 03	116.2	-140.3	34.1	21.6	36.3	67.9	50.9	17.0	-19.3	-54.4
Aug 04	112.1	-26.7	65.4	21.6	36.3	208.7	156.5	52.2	15.9	-38.5
Aug 05	106.3	5.6	64.0	21.6	36.3	233.8	175.4	58.4	22.1	-16.4
Aug 06	101.3	26.0	74.1	21.6	36.3	259.3	194.5	64.8	28.5	12.1
Aug 07	103.4	60.7	70.2	21.6	36.3	292.2	219.2	73.0	36.7	48.8
Aug 08	106.0	293.3	60.9	21.6	36.3	518.1	388.6	129.5	93.2	142.0
Aug 09	123.5	55.9	68.6	21.6	36.3	305.9	229.4	76.5	40.2	182.2
Aug 10	236.6	-186.2	52.2	21.6	36.3	160.5	120.4	40.1	3.8	186.0
Aug 11	124.2	-82.5	66.5	21.6	36.3	166.1	124.6	41.5	5.2	191.2
Aug 12	112.5	-71.5	74.5	21.6	36.3	173.4	130.0	43.4	7.1	198.3
Aug 13	106.1	-104.8	67.0	21.6	36.3	126.2	94.6	31.6	-4.7	193.6
Aug 14	101.0	-130.1	32.6	21.6	36.3	61.4	46.0	15.4	-20.9	172.7
Aug 15	95.0	-95.3	48.3	21.6	36.3	105.9	79.4	26.5	-9.8	162.9
15 day Total	1811.9	-737.4	886.6	324.0	544.5	2829.6	2122.2	707.4	162.9	#N/A
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Aug 16	86.1	-60.6	55.6	21.6	36.3	139.0	104.2	34.8	-1.5	-1.5
Aug 17	82.4	313.5	44.5	21.6	36.3	498.3	373.7	124.6	88.3	86.8
Aug 18	82.9	65.3	61.4	21.6	36.3	267.5	200.6	66.9	30.6	117.4
Aug 19	83.5	102.2	66.2	21.6	36.3	309.8	232.4	77.4	41.1	158.5
Aug 20	98.9	14.9	37.6	21.6	36.3	209.3	157.0	52.3	16.0	174.5
Aug 21	104.9	36.5	14.5	21.6	36.3	213.8	160.4	53.4	17.1	191.6
Aug 22	129.6	436.9	12.1	21.6	36.3	636.5	477.4	159.1	122.8	314.4
Aug 23	164.3	516.9	14.3	21.6	36.3	753.4	565.0	188.4	152.1	466.5
Aug 24	135.9	38.9	21.8	21.6	36.3	254.5	190.9	63.6	27.3	493.8
Aug 25	123.6	175.0	52.2	21.6	36.3	408.7	306.5	102.2	65.9	559.7
Aug 26	144.8	74.7	59.7	21.6	36.3	337.1	252.8	84.3	48.0	607.7
Aug 27	134.8	120.7	64.0	21.6	36.3	377.4	283.0	94.4	58.1	665.8
Aug 28	193.0	155.5	52.1	21.6	36.3	458.5	343.9	114.6	78.3	744.1
Aug 29	269.6	237.6	50.7	21.6	36.3	615.8	461.8	154.0	117.7	861.8
Aug 30	284.6	194.3	35.4	21.6	36.3	572.2	429.2	143.0	106.7	968.5
Aug 31	224.0	177.5	52.0	21.6	36.3	511.4	383.5	127.9	91.6	1060.1
16 day Total	2342.9	2599.8	694.1	345.6	580.8	6563.2	4922.3	1640.9	1060.1	#N/A
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Aug Totals	4154.8	1862.4	1580.7	669.6	1125.3	9392.8	7044.5	2348.3	1223.0	

All figures in cubic decametres.

Five day lag period is applied between west and east to determine natural flow at Eastern Crossing.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

Table 8 (Continued)

**Summary of Daily
Net Change, Natural Flow, Evaporative and Net Consumptive Uses of
Milk River at Eastern Crossing of International Boundary
September, 2014**

Date at Eastern Crossing	Natural Flow at Western Crossing	East to West Net Change	Incremental Evaporative Trans. Loss	Total Consumptive Use		Natural Flow at Eastern Crossing	Share		Excess / Deficit to U.S.	Cumulative Excess / Deficit to U.S.
				U.S.	Canada		U.S.	Canada		
	C9,T2	C10,T2	C8,T4	C3,T3	C8,T3				(9-6)	
1	2	3	4	5	6	7	8	9	10	11
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Sep 01	182.1	206.6	47.1	14.7	24.2	474.7	356.0	118.7	94.5	94.5
Sep 02	153.1	144.3	53.7	14.7	24.2	390.0	292.5	97.5	73.3	167.8
Sep 03	138.2	103.4	18.0	14.7	24.2	298.5	223.9	74.6	50.4	218.2
Sep 04	126.0	620.0	53.0	14.7	24.2	837.9	628.4	209.5	185.3	403.5
Sep 05	119.5	-52.3	46.7	14.7	24.2	152.8	114.6	38.2	14.0	417.5
Sep 06	115.6	-145.9	46.8	14.7	24.2	55.4	41.6	13.8	-10.4	407.1
Sep 07	106.6	-126.0	49.2	14.7	24.2	68.7	51.5	17.2	-7.0	400.1
Sep 08	106.0	-32.4	26.5	14.7	24.2	139.0	104.2	34.8	10.6	410.7
Sep 09	107.8	36.6	7.7	14.7	24.2	191.0	143.2	47.8	23.6	434.3
Sep 10	101.5	112.2	8.9	14.7	24.2	261.5	196.1	65.4	41.2	475.5
Sep 11	100.7	370.8	19.2	14.7	24.2	529.6	397.2	132.4	108.2	583.7
Sep 12	99.4	495.4	23.1	14.7	24.2	656.8	492.6	164.2	140.0	723.7
Sep 13	95.9	355.4	22.7	14.7	24.2	512.9	384.7	128.2	104.0	827.7
Sep 14	100.6	252.3	25.6	14.7	24.2	417.4	313.0	104.4	80.2	907.9
Sep 15	117.1	201.6	27.1	14.7	24.2	384.7	288.5	96.2	72.0	979.9
15 day Total	1770.1	2542.0	475.3	220.5	363.0	5370.9	4028.0	1342.9	979.9	#N/A
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Sep 16	126.3	144.7	23.7	0.0	0.0	294.7	221.0	73.7	73.7	73.7
Sep 17	134.3	197.3	20.6	0.0	0.0	352.2	264.2	88.0	88.0	161.7
Sep 18	153.7	258.5	6.3	0.0	0.0	418.5	313.9	104.6	104.6	266.3
Sep 19	171.4	203.4	10.5	0.0	0.0	385.3	289.0	96.3	96.3	362.6
Sep 20	174.2	171.8	7.2	0.0	0.0	353.2	264.9	88.3	88.3	450.9
Sep 21	161.2	154.6	5.8	0.0	0.0	321.6	241.2	80.4	80.4	531.3
Sep 22	141.0	-	5.6	0.0	0.0	313.2	234.9	78.3	78.3	609.6
Sep 23	126.1	-	5.3	0.0	0.0	293.6	220.2	73.4	73.4	683.0
Sep 24	117.2	-	5.4	0.0	0.0	281.4	211.0	70.4	70.4	753.4
Sep 25	110.5	-	5.4	0.0	0.0	266.7	200.0	66.7	66.7	820.1
Sep 26	105.1	-	5.0	0.0	0.0	249.6	187.2	62.4	62.4	882.5
Sep 27	100.8	-	2.0	0.0	0.0	232.4	174.3	58.1	58.1	940.6
Sep 28	97.4	-	2.8	0.0	0.0	227.5	170.6	56.9	56.9	997.5
Sep 29	95.8	-	2.6	0.0	0.0	220.2	165.1	55.1	55.1	1052.6
Sep 30	97.6	-	2.6	0.0	0.0	217.7	163.3	54.4	54.4	1107.0
15 day Total	1912.6	1130.3	110.8	0.0	0.0	4427.8	3320.8	1107.0	1107.0	#N/A
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Sep Totals	3682.7	3672.3	586.1	220.5	363.0	9798.7	7348.8	2449.9	2086.9	

All figures in cubic decametres.

Five day lag period is applied between west and east to determine natural flow at Eastern Crossing.

Grey areas indicate natural flow equal to the recorded flow at the gauge (11AA031) Milk River at Eastern Crossing plus United States and Canadian consumptive use.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

Table 8 (Continued)

**Summary of Daily
Net Change, Natural Flow, Evaporative and Net Consumptive Uses of
Milk River at Eastern Crossing of International Boundary
October, 2014**

Date at Eastern Crossing	Natural Flow at Western Crossing	East to West Net Change	Incremental Evaporative Trans. Loss	Total Consumptive Use		Natural Flow at Eastern Crossing	Share		Excess / Deficit to U.S.	Cumulative Excess / Deficit to U.S.
				U.S.	Canada		U.S.	Canada		
				C9,T2	C10,T2	C8,T4	C3,T3	C8,T3		
1	2	3	4	5	6	7	8	9	10	11
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Oct 01	97.4	-	3.4	0.0	0.0	212.9	159.7	53.2	53.2	53.2
Oct 02	93.7	-	1.9	0.0	0.0	215.3	161.5	53.8	53.8	107.0
Oct 03	98.0	-	2.6	0.0	0.0	212.9	159.7	53.2	53.2	160.2
Oct 04	99.0	-	3.1	0.0	0.0	205.5	154.1	51.4	51.4	211.6
Oct 05	107.2	-	2.3	0.0	0.0	198.2	148.6	49.6	49.6	261.2
Oct 06	139.0	-	1.1	0.0	0.0	205.5	154.1	51.4	51.4	312.6
Oct 07	152.0	-	1.4	0.0	0.0	210.4	157.8	52.6	52.6	365.2
Oct 08	160.6	-	1.5	0.0	0.0	239.8	179.9	59.9	59.9	425.1
Oct 09	168.9	-	1.3	0.0	0.0	244.7	183.5	61.2	61.2	486.3
Oct 10	169.1	-	1.4	0.0	0.0	239.8	179.9	59.9	59.9	546.2
Oct 11	181.3	-	1.4	0.0	0.0	249.6	187.2	62.4	62.4	608.6
Oct 12	169.6	-	1.3	0.0	0.0	256.9	192.7	64.2	64.2	672.8
Oct 13	146.4	-	1.3	0.0	0.0	242.2	181.6	60.6	60.6	733.4
Oct 14	138.1	-	2.7	0.0	0.0	222.6	167.0	55.6	55.6	789.0
Oct 15	129.9	-	1.3	0.0	0.0	205.5	154.1	51.4	51.4	840.4
15 day Total	2050.2	0.0	28.0	0.0	0.0	3361.8	2521.4	840.4	840.4	#N/A
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Oct 16	126.7	-	1.2	0.0	0.0	210.4	157.8	52.6	52.6	52.6
Oct 17	126.6	-	1.2	0.0	0.0	220.2	165.1	55.1	55.1	107.7
Oct 18	120.4	-	1.9	0.0	0.0	212.9	159.7	53.2	53.2	160.9
Oct 19	121.5	-	1.2	0.0	0.0	198.2	148.6	49.6	49.6	210.5
Oct 20	118.1	-	1.3	0.0	0.0	193.3	145.0	48.3	48.3	258.8
Oct 21	119.6	-	0.4	0.0	0.0	185.9	139.4	46.5	46.5	305.3
Oct 22	116.4	-	1.5	0.0	0.0	185.9	139.4	46.5	46.5	351.8
Oct 23	115.2	-	1.1	0.0	0.0	183.5	137.6	45.9	45.9	397.7
Oct 24	115.1	-	1.5	0.0	0.0	176.2	132.1	44.1	44.1	441.8
Oct 25	115.8	-	0.7	0.0	0.0	171.3	128.5	42.8	42.8	484.6
Oct 26	120.4	-	0.8	0.0	0.0	168.8	126.6	42.2	42.2	526.8
Oct 27	124.4	-	0.5	0.0	0.0	185.9	139.4	46.5	46.5	573.3
Oct 28	123.8	-	0.5	0.0	0.0	198.2	148.6	49.6	49.6	622.9
Oct 29	131.0	-	1.0	0.0	0.0	193.3	145.0	48.3	48.3	671.2
Oct 30	138.1	-	0.3	0.0	0.0	183.5	137.6	45.9	45.9	717.1
Oct 31	170.7	-	0.1	0.0	0.0	188.4	141.3	47.1	47.1	764.2
16 day Total	2003.8	0.0	15.2	0.0	0.0	3055.9	2291.7	764.2	764.2	0.0
Accumulated deficit including carry over from previous division period										
Note: Eligible June 01 to September 15 accumulated carry over is 4900 dam ³ (2000 cfs-days).										
Oct Totals	4054.0	0.0	43.2	0.0	0.0	6417.7	4813.1	1604.6	1604.6	

All figures in cubic decametres.

Five day lag period is applied between west and east to determine natural flow at Eastern Crossing.

Grey areas indicate natural flow equal to the recorded flow at the gauge (11AA031) Milk River at Eastern Crossing plus United States and Canadian consumptive use.

Approved by:

For Canada

For The United States

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**Table 9: HISTORICAL SUMMARY OF MARCH – OCTOBER COMPUTED NATURAL FLOW
MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY
(VALUES IN CUBIC DECAMETRES)**

YEAR	COMPUTED NATURAL FLOW	UNITED STATES SHARE	CANADIAN SHARE	YEAR	COMPUTED NATURAL FLOW	UNITED STATES SHARE	CANADIAN SHARE
1912	140,600	93,500	47,060	1941	31,230	21,500	9,730
1913	156,000	109,700	46,310	1942	105,500	75,880	29,610
1914	85,080	59,420	25,650	1943	143,500	98,570	44,880
1915	172,100	121,300	50,770	1944	27,940	19,940	8,000
1916	279,900	187,800	92,050	1945	53,840	36,160	17,680
1917	270,300	174,300	96,000	1946	51,470	35,060	16,410
1918	79,710	55,670	24,040	1947	203,600	128,600	75,020
1919	33,800	24,100	9,700	1948	253,700	167,800	85,970
1920	212,700	135,200	77,520	1949	69,920	49,710	20,200
1921	70,180	50,360	19,820	1950	149,100	106,100	42,960
1922	107,500	76,500	31,040	1951	342,400	226,300	116,000
1923	101,400	72,610	28,800	1952	249,000	154,300	94,720
1924	89,170	63,320	25,850	1953	316,700	200,200	116,600
1925	148,900	100,700	48,240	1954	181,800*	127,200	54,610
1926	30,240	21,220	9,020	1955	197,300	133,700*	63,580
1927	449,200	280,800	168,400	1956	138,900	97,270	41,600
1928	273,000	177,700	95,300	1957	129,300	88,470	40,810
1929	183,400	122,800	60,570	1958	139,200	89,690	49,550
1930	131,000	87,900	43,070	1959	159,600	105,100	54,490
1931	36,720	25,050	11,670	1960	121,300	76,290	45,010
1932	94,350	64,710	29,650	1961	46,770	32,760	14,010
1933	117,200	80,590	36,580	1962	72,190	48,500	23,690
1934	116,700	79,580	37,080	1963	34,260	23,630	10,630
1935	97,570	64,590	32,980	1964	154,100	104,300	49,750
1936	79,920	50,220	29,700	1965	283,600	181,200	102,500*
1937	111,600	78,980	32,660	1966	146,500	98,500	48,020
1938	133,200	89,640	43,520	1967	309,000	193,200	115,800
1939	50,110	33,540	16,560	1968	139,200	96,540	42,690
1940	69,710	46,390	23,320	1969	236,000	147,000	88,930
				1970	121,300	84,790	36,460

Continued...

* Revised

Note: The totals of the United States and Canadian shares may not agree with the computed natural flows as all figures have been rounded for this summary. The table is a direct conversion from English to SI units. Totals prior to 1985 may not concur in some cases.

**Table 9 (continued): HISTORICAL SUMMARY OF MARCH – OCTOBER COMPUTED
NATURAL FLOW MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY**
(VALUES IN CUBIC DECAMETRES)

YEAR	COMPUTED NATURAL FLOW	UNITED STATES SHARE	CANADIAN SHARE	YEAR	COMPUTED NATURAL FLOW	UNITED STATES SHARE	CANADIAN SHARE
1971	127,900	91,280	36,650	1996	200,300	124,800	75,500
1972	228,700	148,500	80,260	1997	173,800	113,500	60,280
1973	44,490	29,600	14,890	1998	75,030*	53,920*	21,100*
1974	116,700	82,190	34,530	1999	76,810	54,810	22,000
1975	324,200	206,100	118,100	2000	35,390	24,320	11,070
1976	117,800	80,360	37,400	2001	21,730	15,100	6,630
1977	37,180	25,800	11,380	2002	235,400	145,600	89,820*
1978	273,900	173,200	100,700	2003	97,260	63,670	33,600
1979	248,200	152,600	95,570	2004	61,960	42,350	19,620
1980	99,420	69,480	29,940	2005	73,300	51,190	22,110
1981	113,300	79,170	34,170	2006	83,750	58,480	25,270
1982	164,500	109,300	55,150	2007	75,980	48,600	27,380
1983	46,550	32,650	13,910	2008	108,700	77,000	31,660
1984	26,550	17,490	9,060	2009	79,840	56,010	23,830
1985	58,800	41,680	17,110*	2010	278,100	186,800	91,290
1986	88,070	58,850	29,220	2011	358,700	227,400	131,200
1987	58,300	40,890	17,410	2012	111,700	78,570	33,100
1988	35,930	25,010	10,920	2013	97,590	67,340	30,250
				2014	196,900	128,400	68,410
1989	116,800*	78,520	38,320	AVERAGE			
1990	121,000	82,250	38,730	1912 – 2013	137,100	91,210	45,920
1991	148,100	105,200	42,840				
1992	38,900	26,910	11,990				
1993	160,300	109,500	50,770				
1994	188,000	115,400	72,590				
1995	229,300	155,200	74,110				

* Revised

Note: The totals of the United States and Canadian shares may not agree with the computed natural flows as all figures have been rounded for this summary. The table is a direct conversion from English to SI units. Totals prior to 1985 may not concur in some cases.

Table 10: NATURAL FLOW OF LODGE CREEK AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period Upper Lodge Area	1	2	3	4	5	6	7	8	9	10
Michel Reservoir Depletion	Observed	Observed	Observed	Reported	1+2+3+4	7.34 dam ³ /day +% of remainder	5 - 6	Observed	7.34 dam ³ /day +% of remainder	
Greasewood Reservoir Depletion					Total Depletion Upper Lodge Reservoirs	Channel Loss to International Boundary	Net Depletion Upper Lodge	Bare Creek Reservoir Depletion	Channel Loss to International Boundary	Net Depletion Bare Creek
(Upper Lodge Incl. Bare Cr.)										
Feb 26-Mar 11	7	5	28	0	40	6	40	0	19	6
Mar 12 - 27	51	74	108	0	233	6	124	109	553	6
Mar 28-Apr 11	30	4	3	54	91	9	91	0	236	9
Apr 12 - 26	-14	2	4	4	-4	9	-4	0	140	9
Apr 27-May 11	-2	-3	-1	0	-6	15	-6	0	14	15
May 12 - 27	11	2	8	0	21	15	21	0	35	15
May 28-Jun 11	9	-24	11	0	-4	24	-4	0	11	11
Jun 12 - 26	10	-26	0	447	431	24	187	244	27	27
Jun 27-Jul 11	8	-6	-12	0	-10	24	-10	0	37	24
Jul 12 - 27	0	-34	2	0	-32	24	-32	0	-169	24
Jul 28-Aug 11	-2	1	-35	0	-36	24	-36	0	-229	24
Aug 12 - 27	3	7	-59	0	-49	24	-49	0	24	24
Aug 28-Sep 11	13	13	37	0	63	15	63	0	24	15
Sep 12 - 26	5	3	0	0	8	15	8	0	9	15
Sep 27-Oct 11	-2	3	0	0	1	9	1	0	-8	-8
Oct 12 - 27	3	4	1	0	8	9	8	0	1	1
Total	130	25	95	505	755			402	352	724

All values are derived from data as published in Appendix B.
All quantities in cubic decimetres. Totals may not add or subtract exactly as a result of rounding.

Table 10 (continued): NATURAL FLOW OF LODGE CREEK AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period Cressday and Mitchell Reservoir Area	11	12	13	14	15	16	17	18	19	20	21							
Observed	Observed remainder	11 - 12	Observed	Reported	14 + 15	16 - 17	Observed	Period Jaydot Reservoir Area	Jaydot Reservoir Depletion	Channel Loss to Inter- national Boundary	Net Depletion Cressday	Total Depletion Mitchell Reservoir Boundary	Channel Loss to Inter- national Boundary	Net Depletion Mitchell Reservoir Area	Period Jaydot Reservoir Area	Jaydot Reservoir Depletion	Channel Loss to Inter- national Boundary	Net Depletion Jaydot
Feb 27-Mar 12	0	4	0	0	-2	0	-2	4	-2	0 Feb 27-Mar 13	0	2	0	0	0	0	0	0
Mar 13 - 28	111	4	80	31	136	0	136	4	81	55 Mar 14 - 29	0	2	0	0	0	0	0	0
Mar 29-Apr 12	-10	6	-10	0	192	0	192	6	81	111 Mar 30-Apr 13	0	3	0	0	0	0	0	0
Apr 13 - 27	-2	6	-2	0	92	0	92	6	75	17 Apr 14 - 28	0	3	0	0	0	0	0	0
Apr 28-May 12	14	10	14	0	27	0	27	10	27	0 Apr 29-May 13	0	5	0	0	0	0	0	0
May 13 - 28	17	10	17	0	-181	0	-181	10	-89	-92 May 14 - 29	0	5	0	0	0	0	0	0
May 29-Jun 12	-7	16	-7	0	2	0	2	16	2	0 May 30-Jun 13	0	8	0	0	0	0	0	0
Jun 13 - 27	46	16	46	0	2	0	2	16	2	0 Jun 14 - 28	0	8	0	0	0	0	0	0
Jun 28-Jul 12	9	16	9	0	8	0	8	16	8	0 Jun 29-Jul 13	0	8	0	0	0	0	0	0
Jul 13 - 28	5	16	5	0	-4	0	-4	16	-4	0 Jul 14 - 29	0	8	0	0	0	0	0	0
Jul 29-Aug 12	5	16	5	0	-6	0	-6	16	-6	0 Jul 30-Aug 13	0	8	0	0	0	0	0	0
Aug 13 - 28	48	16	48	0	5	0	5	16	5	0 Aug 14 - 29	0	8	0	0	0	0	0	0
Aug 29-Sep 12	-4	10	-4	0	5	0	5	10	5	0 Aug 30-Sep 13	0	5	0	0	0	0	0	0
Sep 13 - 27	-8	10	-8	0	1	0	1	10	1	0 Sep 14 - 28	0	5	0	0	0	0	0	0
Sep 28-Oct 12	10	6	10	0	-3	0	-3	6	-3	0 Sep 29-Oct 13	0	3	0	0	0	0	0	0
Oct 13 - 28	5	6	5	0	-19	0	-19	6	-19	0 Oct 14 - 29	0	3	0	0	0	0	0	0
Total	239	208	31	255	0	255	164	91	0	---	---	---	---	---	---	---	0	0

All values are derived from data as published in Appendix B.
All quantities in cubic decametres. Totals may not add or subtract exactly as a result of rounding.

Table 10 (continued): NATURAL FLOW OF LODGE CREEK AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period	Middle Creek Reservoir Area	Middle Creek Reservoir Inflow	Bedford Outlet	Flood Spillway	Irrigation Return Middle Creek Below Middle Creek Reservoir	Minor Diversions (Middle Cr.)	Gross Depletion	Channel Loss to International Boundary	Net Depletion Middle Creek
	Observed	Observed	Observed	Observed	Observed	Reported	22-23-24-25+26	4.92 dam ³ /day +% of remainder	27 - 28
Feb 27-Mar 12		61	0	0	0	0	0	61	4
Mar 13 - 28		997	0	0	0	8	1005	4	116
Mar 29-Apr 12		663	0	0	0	0	663	6	109
Apr 13 - 27		323	0	0	0	0	323	6	89
Apr 28-May 12		149	0	0	0	92	241	10	91
May 13 - 28		78	0	0	435	31	-326	10	-103
May 29-Jun 12		56	0	0	57	0	-1	16	-1
Jun 13 - 27		112	0	0	7	0	105	16	79
Jun 28-Jul 12		30	0	0	0	0	30	16	30
Jul 13 - 28		24	0	0	0	0	24	16	24
Jul 29-Aug 12		17	0	0	0	0	17	16	17
Aug 13 - 28		21	0	0	0	0	21	16	21
Aug 29-Sep 12		20	0	0	0	0	20	10	20
Sep 13 - 27		19	0	0	0	0	19	10	19
Sep 28-Oct 12		19	0	0	0	0	19	6	19
Oct 13 - 28		19	0	0	0	0	19	6	19
Total		2608	0	0	499	131	2240	609	1632

All values are derived from data as published in Appendix B.
All quantities in cubic decimetres. Totals may not add or subtract exactly as a result of rounding.

Table 10 (continued): NATURAL FLOW OF LODGE CREEK AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period	Middle Creek Near	Middle Creek Near	Channel Loss to Middle Cr Above Lodge Creek	Period To Middle Creek Above Lodge Creek	Apparent Flow At Middle Creek Above Lodge Creek	Measured Flow At Middle Creek Above Lodge Creek	Water Use Stokke - Buchanan Projects	Channel Loss to International Boundary	Net Depletion Stokke - Buchanan
	Govenlock	Govenlock	1.21 dam ³ /day					1.21 dam ³ /day	
		Observed	+% of remainder		30 - 31	Observed	32 - 33	+% of remainder	34 - 35
Feb 28-Mar 13		82	1	19	Feb 28-Mar 14	63	130	-67	1
Mar 14 - 29		107	1	20	Mar 15 – 30	87	152	-65	1
Mar 30-Apr 13		43	2	19	Mar 31-Apr 14	24	8	16	2
Apr 14 - 28		104	2	20	Apr 15 – 29	84	8	76	2
Apr 29-May 13		110	3	21	Apr 30-May 14	89	7	82	3
May 14 - 29		296	3	28	May 15 – 30	268	35	233	3
May 30-Jun 13		97	4	21	May 31-Jun 14	76	12	64	4
Jun 14 - 28		83	4	21	Jun 15 – 29	62	55	7	7
Jun 29-Jul 13		18	4	18	Jun 30-Jul 14	0	38	-38	4
Jul 14 - 29		0	4	0	Jul 15 – 30	0	1	-1	4
Jul 30-Aug 13		3	4	3	Jul 31-Aug 14	0	0	0	0
Aug 14 - 29		49	4	21	Aug 15 – 30	28	116	-88	4
Aug 30-Sep 13		49	3	19	Aug 31-Sep 14	30	32	-2	3
Sep 14 - 28		27	3	18	Sep 15 – 29	9	6	3	3
Sep 29-Oct 13		25	2	18	Sep 30-Oct 14	7	7	0	0
Oct 14 - 29		41	2	20	Oct 15 – 30	21	21	0	0
Total		1134	285			849	628	221	29
									192

All values are derived from data as published in Appendix B.
All quantities in cubic decimetres. Totals may not add or subtract exactly as a result of rounding.

Table 10 (continued): NATURAL FLOW OF LODGE CREEK AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period Altawan Reservoir Area	Altawan Reservoir Depletion	Spangler Ditch	-Squaw Coulee	Return Flow From Spangler Ditch	Return Flow From Bedford -Walburger Coulee	Minor Diversions	Gross Depletion	Channel Loss to International Boundary	Net Depletion Altawan
Observed	Observed	Observed	Observed	Reported	37+38-39-40+41	2.42 dam ³ /day +% of remainder	42 - 43	44	
Feb 28-Mar 13	233	0	0	0	0	0	233	2	40
Mar 14 - 29	1234	0	0	0	0	0	1234	2	63
Mar 30-Apr 13	181	0	0	0	0	26	207	3	41
Apr 14 - 28	-59	0	0	0	0	161	102	3	38
Apr 29-May 13	-79	59	0	0	0	20	-1	5	-1
May 14 - 29	-1045	1292	0	0	0	0	247	5	49
May 30-Jun 13	-514	645	52	0	0	0	79	8	40
Jun 14 - 28	460	0	0	0	0	0	460	8	70
Jun 29-Jul 13	45	0	0	0	0	0	45	8	37
Jul 14 - 29	-305	0	0	0	0	0	-305	8	-60
Jul 30-Aug 13	7	0	0	0	0	0	7	8	7
Aug 14 - 29	405	0	128	0	0	0	277	8	58
Aug 30-Sep 13	7	0	3	0	0	0	4	5	4
Sep 14 - 28	35	0	0	0	0	0	35	5	35
Sep 29-Oct 13	-9	0	0	0	0	0	-9	3	-9
Oct 14 - 29	-19	0	0	0	0	0	-19	3	-19
Total	577	1996	183	0	207	2597	394	2203	

All values are derived from data as published in Appendix B.
All quantities in cubic decimetres. Totals may not add or subtract exactly as a result of rounding.
Flows at Squaw Coulee considered "natural" are entered as zero.

Table 10 (continued): NATURAL FLOW OF LODGE CREEK AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period At International Boundary	Net Depletion In Canada	Lodge Creek At International Boundary	Natural Flow Of Lodge Creek	U.S.A. Share Of Natural Flow	Excess Flow To U.S.A.	Deficit (-) To Date
		7 + 10 + 13 + 18 +21 + 29 + 36 + 44	Observed	45 + 46	50% of 47	46 - 48
Mar 1 - 15	145	278	423	211	67	0
Mar 16 - 31	2619	4268	6887	3444	824	0
Apr 1 - 15	945	2418	3363	1682	736	0
Apr 16 - 30	399	1282	1681	840	442	0
May 1 - 15	213	775	988	494	281	0
May 16 - 31	91	123	214	107	16	0
Jun 1 - 15	83	81	164	82	-1	-1
Jun 16 - 30	660	33	693	346	-313	-314
Jul 1 - 15	-11	37	26	13	24	-290
Jul 16 - 31	-284	118	0	0	118	-172
Aug 1 - 15	-90	12	0	0	12	-160
Aug 16 - 31	154	428	582	291	137	-23
Sep 1 - 15	0	101	101	51	50	0
Sep 16 - 30	0	19	19	10	9	0
Oct 1 - 15	0	3	3	2	1	0
Oct 16 - 31	0	5	5	3	2	0
Total	4923	9981	15148	7576	2405	0

All values are derived from data as published in Appendix B.
 All quantities in cubic decimetres.
 Totals may not add or subtract exactly as a result of rounding.

Approved by:
 For Canada

 For the United States

**Table 11: HISTORICAL SUMMARY OF MARCH TO OCTOBER COMPUTED NATURAL AND RECORDED FLOW
LODGE CREEK AT THE INTERNATIONAL BOUNDARY
(VALUES IN CUBIC DECAMETRES)**

YEAR	COMPUTED NATURAL FLOW	CANADIAN & U.S.A. SHARES	RECORDED FLOW	YEAR	COMPUTED NATURAL FLOW	CANADIAN & U.S.A. SHARES	RECORDED FLOW
1950	17,900	8,950	14,410	1986	93,870	46,935	75,060
1951	62,950	31,475	48,760	1987	31,280	15,640	20,670
1952	161,600	80,800	147,200	1988	2,990	1,495	1,370
1953	38,240	19,120	27,240	1989	4,160	2,080	1,920
1954	13,050	6,525	7,620	1990	29,750	14,875	16,030
1955	97,070	48,535	75,390	1991	13,870	6,935	7,670
1956	21,180	10,590	15,770	1992	398	199	0
1957	32,770	16,385	24,500	1993	46,180	23,090	26,690
1958	48,180	24,090	42,090	1994	28,150	14,075	18,190
1959	21,220	10,610	14,300	1995	3,760	1,880	2,360
1960	39,590	19,795	29,510	1996	68,440	34,220	53,370
1961	2,200	1,100	1,030	1997	45,860	22,930	33,500
1962	25,640	12,820	18,840	1998	3,390	1,695	1,620
1963	14,080	7,040	7,500	1999	6,910	3,455	3,720
1964	9,790	4,895	5,130	2000	174	87	0
1965	95,340	47,670	68,060	2001	139	70	0
1966	44,230	22,115	30,180	2002	12,590	6,295	6,100
1967	90,360	45,180	73,260	2003	21,330	10,665	12,660
1968	4,910	2,455	2,650	2004	9,630	4,815	5,440
1969	36,900	18,450	20,850	2005	6,860	3,430	3,310
1970	29,050	14,525	16,160	2006	11,010	5,505	5,140
1971	26,290	13,145	13,080	2007	6,930	3,465	3,930
1972	27,380	13,690	13,580	2008	2,230	1,115	1,100
1973	2,080	1,040	1,060	2009	4,640	2,320	2,210
1974	26,980	13,490	14,560	2010	41,620	20,810	22,980
1975	48,000	24,000	34,540	2011	89,490	44,745	79,850
1976	29,480	14,740	22,320	2012	4,000	2,000	1,930
1977	1,240	620	891	2013	17,050	8,525	9,750
1978	37,240	18,620	22,350	2014	15,150	7,575	9,980
1979	47,020	23,510	30,390	AVERAGE			
1980	2,140	1,070	712	1950-2013	28,560	14,280	20,260
1981	1,260	630	407				
1982	38,800	19,400	22,420				
1983	4,660	2,330	2,480				
1984	937	469	600				
1985	21,270	10,635	9,960				

Table 12: NATURAL FLOW OF BATTLE CREEK AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

	1	2	3	4	5	6	7	8	9	10	11
Period Reesor Lake Area	Reesor Lake	Reesor Lake	Gross Depletion Minor use	Channel Loss International Boundary	Net Depletion Upper Battle Creek	Period Gaff Ditch Area	Gaff Ditch	Gross Depletion Minor Use	Channel Loss To Gaff Ditch	Depletion International Boundary	Net Gaff Ditch
Observed	Reported	Reported	1 + 2	14.7 dam ³ /day	3 - 4	Measured	35% of 6	Reported	(6 - 7) + 8	9.76 dam ³ /day	9 - 10
Feb 24-Mar 19	41	59	100	0	Feb 25-Mar 21	0	0	244	244	244	0
Mar 20-Apr 3	18	-11	7	0	Mar 22-Apr 5	96	34	0	62	62	0
Apr 4 - 18	-5	28	23	0	Apr 6 - 20	280	98	322	504	146	357
Apr 19-May 3	27	12	39	0	Apr 21-May 5	597	209	373	761	146	615
May 4 - 19	12	-1	11	0	May 6 - 21	335	117	318	536	156	380
May 20-Jun 3	29	-15	14	0	May 22-Jun 5	31	11	97	117	117	0
Jun 4 - 18	31	85	116	0	Jun 6 - 20	14	5	14	23	23	0
Jun 19-Jul 3	14	-16	-2	0	Jun 21-Jul 5	9	3	7	13	13	0
Jul 4-19	29	-33	-4	0	Jul 6 - 21	5	2	13	16	16	0
Jul 20-Aug 3	71	-31	40	0	Jul 22-Aug 5	6	2	7	10	10	0
Aug 4 - 19	10	-13	-3	0	Aug 6 - 21	8	3	2	7	7	0
Aug 20-Sep 3	-17	174	157	0	Aug 22-Sep 5	7	2	6	10	10	0
Sep 4 - 18	-9	35	26	0	Sep 6 - 20	5	2	6	9	9	0
Sep 19-Oct 3	7	-16	-9	0	Sep 21-Oct 5	5	2	6	9	9	0
Oct 4-Oct 19	-3	-1	-4	0	Oct 6 - 21	5	2	5	8	8	0
Oct 20 - 25	-2	6	4	0	Oct 22-27	5	2	2	5	5	0
Total	253	262	515	0		1 408	493	1 420	2 336	983	1 352

All values are derived from data as published in Appendix B.
All quantities in cubic decimetres. Totals may not add or subtract exactly as a result of rounding.

Table 12 (continued): NATURAL FLOW OF BATTLE CREEK AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period	Cypress Lake Area	West Inflow Canal	West Outflow Canal	West Inflow Canal Drain	Cypress Lake Area	Net Diversion To Cypress Lake Area	Return Flow Ditch	Total Cypress Lake	Gross Depletion Cypress Lake	Channel Loss To International Boundary	Net Depletion Cypress Lake
	Measured	Measured	Measured	Measured	13 + 14	12-15	Measured (4 day lag)	16+17-18	Reported	19+20	7.34 dam ³ /day
Feb 27-Mar 22	969	0	4	4	965	0	0	965	10	975	184
Mar 23-Apr 6	3	15	3	18	-15	0	0	-15	0	-15	0
Apr 7 - 21	829	105	1	106	723	0	0	723	0	723	110
Apr 22-May 6	514	215	0	215	299	0	0	299	13	312	110
May 7 - 22	1151	4788	0	4788	-3637	1726	432	-2343	27	-2316	-117
May 23-Jun 6	368	1435	0	1435	-1067	865	216	-418	34	-385	-110
Jun 7 - 21	1239	45	0	45	1194	0	0	1194	4	1198	110
Jun 22-Jul 6	1518	203	0	203	1315	0	0	1315	0	1315	110
Jul 7 - 22	193	0	0	0	193	0	0	193	0	193	117
Jul 23-Aug 6	0	0	0	0	0	0	0	0	0	0	0
Aug 7 - 22	0	0	0	0	0	0	0	0	0	0	0
Aug 23-Sep 6	715	0	0	0	715	0	0	715	0	715	110
Sep 7 - 21	558	0	0	0	558	0	0	558	0	558	110
Sep 22-Oct 6	204	0	0	0	204	0	0	204	0	204	110
Oct 7 - 22	0	0	0	0	0	0	0	0	0	0	0
Oct 23 - 28	0	0	0	0	0	0	0	0	0	0	0
Total	8 261	6 806	8	6 814	1 447	2 591	648	3 390	88	3 479	829
											2 650

All values are derived from data as published in Appendix B.
All quantities in cubic decametres. Totals may not add or subtract exactly as a result of rounding.

Table 12 (continued): NATURAL FLOW OF BATTLE CREEK AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period Consul Area	Richardson Ditch	McKinnon Ditch	Measured	Return Flow (2 day lag)	Gross Canal Diversion 24+25-26	Consul Area Minor Use Reported	Gross Depletion at Consul 27+28	Channel Loss To International Boundary 4.92 dam ³ /day	Net Depletion At Consul 29-30
Feb 28-Mar 23	0	0	0	0	0	98	98	98	0
Mar 24-Apr 7	0	0	0	0	0	69	69	69	0
Apr 8 – 22	0	0	0	0	0	62	62	62	0
Apr 23-May 7	0	0	0	0	0	0	0	0	0
May 8 – 23	1673	1353	757	2270	0	2270	0	79	2191
May 24-Jun 7	97	90	47	140	0	140	0	74	66
Jun 8 – 22	0	0	0	0	0	0	0	0	0
Jun 23-Jul 7	0	0	0	0	0	0	0	0	0
Jul 8 – 23	0	0	0	0	0	0	0	0	0
Jul 24-Aug 7	0	0	0	0	0	0	0	0	0
Aug 8 – 23	0	0	0	0	0	0	0	0	0
Aug 24-Sep 7	0	0	0	0	0	0	0	0	0
Sep 8 – 22	0	0	0	0	0	0	0	0	0
Sep 23-Oct 7	0	0	0	0	0	0	0	0	0
Oct 8 – 23	0	0	0	0	0	0	0	0	0
Oct 24-29	0	0	0	0	0	0	0	0	0
Total	1 770	1 443	803	2 410	229	2 639	382	2 257	

All values are derived from data as published in Appendix B.
All quantities in cubic decimetres. Totals may not add or subtract exactly as a result of rounding.

Table 12 (continued): NATURAL FLOW OF BATTLE CREEK AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period Nashlyn Area	Battle Creek Near Consul	Battle Creek Below Nashlyn Project	Nashlyn Canal	Return Flow	Gross Canal Diversion	Nashlyn Area Minor Use	Gross Depletion At Nashlyn	Channel Loss To International Boundary	Net Depletion At Nashlyn
	Measured	Measured	Measured	33-(32-34)	34-35	Reported	36+37	2.42 dam ³ /day	38-39
Feb 28-Mar 24	1436	1355	839	210	629	24	653	61	592
Mar 25-Apr 8	3284	729	917	229	688	38	726	36	689
Apr 9 - 23	1625	1361	990	248	743	29	772	36	736
Apr 24-May 8	1335	1175	363	203	160	7	167	36	131
May 9 - 24	1636	1600	0	0	0	0	0	0	0
May 25-Jun 8	1360	1411	138	35	104	11	115	36	78
Jun 9 - 23	703	855	0	0	0	0	0	0	0
Jun 24-Jul 8	497	548	0	0	0	0	0	0	0
Jul 9 - 24	427	410	0	0	0	0	0	0	0
Jul 25-Aug 8	517	557	0	0	0	0	0	0	0
Aug 9 - 24	738	608	0	0	0	0	0	0	0
Aug 25-Sep 8	627	689	0	0	0	0	0	0	0
Sep 9 - 23	581	643	0	0	0	0	0	0	0
Sep 24-Oct 8	531	486	0	0	0	0	0	0	0
Oct 9 - 24	1015	1102	0	0	0	0	0	0	0
Oct 25 - 30	364	322	0	0	0	0	0	0	0
Total	16 676	13 851	3 247	924	2 323	109	2 432	206	2 226

A factor of 25% was used to estimate Nashlyn Canal return flow.

All values are derived from data as published in Appendix B.

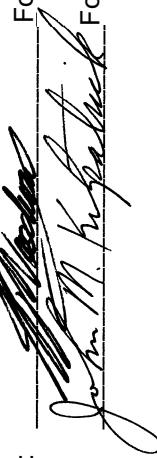
All quantities in cubic decametres. Totals may not add or subtract exactly as a result of rounding.

Table 12 (continued): NATURAL FLOW OF BATTLE CREEK AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period At International Boundary	41 Net Depletion In Canada	42 Battle Creek At International Boundary	43 Natural Flow Of Battle Creek	44 U.S.A. Share Of Natural Flow	45 Excess Flow To The U.S.A.	46 Deficit(-) To Date
	5+11+23+31+40	Measured	41+42	50% of 43	42+44	Sum of 45
Mar 1 - 25	1384	1429	2813	1407	22	0
Mar 26-Apr 9	689	521	1210	605	-84	-84
Apr 10 - 24	1706	1172	2878	1439	-267	-351
Apr 25-May 9	948	1098	2046	1023	75	-276
May 10 - 25	373	1584	1957	979	605	0
May 26-Jun 9	-131	1413	1282	641	772	0
Jun 10 - 24	1088	832	1920	960	-128	-128
Jun 25-Jul 9	1205	456	1661	831	-375	-503
Jul 10 - 25	76	255	331	166	89	-414
Jul 26-Aug 9	0	368	368	184	184	-230
Aug 10 - 25	0	611	611	306	305	0
Aug 26-Sep 9	605	798	1403	702	96	0
Sep 10 - 24	448	543	991	496	47	0
Sep 25-Oct 9	94	418	512	256	162	0
Oct 10 - 25	0	961	961	481	480	0
Oct 26 - 31	0	297	297	149	148	0
Total	8 485	12 756	21 241	10 625	2 131	0

All values are derived from data as published in Appendix B.
 All quantities in cubic decametres.
 Totals may not add or subtract exactly as a result of rounding.

Approved by:


 John M. Kipfner For the United States

For Canada

**Table 13: HISTORICAL SUMMARY OF MARCH TO OCTOBER COMPUTED NATURAL AND RECORDED FLOW
BATTLE CREEK AT INTERNATIONAL BOUNDARY
(VALUES IN CUBIC DECAMETRES)**

YEAR	COMPUTED NATURAL FLOW	CANADIAN & U.S.A. SHARES	RECORDED FLOW	YEAR	COMPUTED NATURAL FLOW	CANADIAN & U.S.A. SHARES	RECORDED FLOW
1940	45,030	22,515	32,100	1980	9,960	4,980	5,860
1941	31,280	15,640	20,860	1981	8,900	4,450	5,610
1942	27,500	13,750	13,490	1982	36,120	18,060	21,940
1943	40,710	20,355	27,960	1983	18,560	9,280	9,660
1944	12,990	6,495	9,470	1984	5,490	2,745	2,820
1945	11,010	5,505	9,970	1985	20,790	10,395	10,530
1946	12,820	6,410	8,590	1986	75,180	37,590	49,540
1947	13,900	6,950	8,540	1987	36,420	18,210	18,460
1948	23,100	11,550	9,670	1988	9,940	4,970	4,650
1949	1,650	825	2,160	1989	8,590	4,295	5,080
1950	23,800	11,900	12,730	1990	19,360	9,680	10,720
1951	35,910	17,955	20,440	1991	19,380 *	9,690	9,930
1952	138,400	69,200	127,800	** 1992	7,490	3,745	4,820
1953	46,580	23,290	34,760	** 1993	34,490	17,245	17,840
1954	40,930	20,465	31,520	** 1994	34,430	17,215	18,260
1955	110,700	55,350	117,600	1995	17,730	8,865	9,310
1956	31,590	15,795	24,890	1996	79,430	39,715	38,140
1957	33,910	16,955	22,990	1997	62,990	31,495	43,580
1958	34,290	17,145	25,040	1998	12,110	6,055	6,300
1959	22,340	11,170	14,680	1999	11,380	5,690	6,890
1960	34,520	17,260	19,350	*** 2000	5,670	2,835	2,950
1961	6,970	3,485	5,510	2001	4,480	2,240	1,720
1962	9,090	4,545	6,010	2002	23,660	11,830	12,620
1963	9,920	4,960	5,790	2003	27,280	13,640	15,640
1964	13,100	6,550	6,670	2004	25,790	12,895	17,180
1965	67,350	33,675	33,950	** 2005	17,800	8,900	9,480
1966	45,850	22,925	24,860	2006	11,710	5,855	4,980
1967	80,440	40,220	67,670	2007	15,830	7,915	9,640
1968	20,090	10,045	12,830	2008	14,400	7,200	7,820
1969	35,440	17,720	21,590	2009	11,720	5,860	5,840
1970	38,260	19,130	22,570	** 2010	66,300	33,150	27,320
1971	23,770	11,885	15,420	2011	103,000	51,500	85,700
1972	27,440	13,720	17,210	2012	19,320	9,660	13,630
1973	11,810	5,905	6,170	2013	25,430	12,715	23,050
1974	23,720	11,860	15,300	2014	21,240	10,620	12,760
1975	54,440	27,220	32,440	AVERAGE			
1976	34,520	17,260	21,210	1940-2013	30,520	15,260	20,200
1977	5,840	2,920	3,330				
1978	28,520	14,260	16,690				
1979	47,520	23,760	27,640				

* Revised.

** For comparison purposes, totals for Mar 1 to Oct 31 are shown. Additional periods are not included.

*** Between 2000 and 2002, the values for 2000 were reported as 5 700, 2 850, and 2 990 and in 2003 the values were erroneously reported as 5 670, 2 830, and 2 950. The values for the year 2000 currently shown in the above table are correct.

Table 14: NATURAL FLOW OF FRENCHMAN RIVER AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period For Cypress Lake Area	1	2	3	4	5	6
	Cypress Lake East Outflow Canal	Cypress Area Minor Use	Gross Depletion At Cypress Lake	Channel Loss To Inter - National Boundary	Net Depletion At Cypress Lake	
	Measured	Measured	1 - 2 + 3	Computed	4 - 5	
Feb 21-Mar 6	0	19	-19	-19	0	
Mar 7 - 22	3 230	268	340	3 302	603	2 699
Mar 23-Apr 6	907	524	10	393	245	148
Apr 7 - 21	1 821	214	84	1 691	485	1 206
Apr 22-May 6	723	285	82	520	274	246
May 7 - 22	439	320	82	201	201	0
May 23-Jun 6	691	82	79	688	389	299
Jun 7 -21	234	191	143	186	186	0
Jun 22-Jul 6	90	153	54	-9	-9	0
Jul 7 - 22	0	75	0	-75	-75	0
Jul 23-Aug 6	0	62	0	-62	-62	0
Aug 7 - 22	0	86	0	-86	-86	0
Aug 23-Sep 6	812	154	0	658	404	254
Sep 7 - 21	0	136	0	-136	-136	0
Sep 22-Oct 6	0	85	0	-85	-85	0
Oct 7 - 22	0	133	0	-133	-133	0
Total	8 947	2 787	874	7 034	2 183	4851

All values are derived from data as published in Appendix B.
All quantities in cubic decametres.

Table 14 (continued): NATURAL FLOW OF FRENCHMAN RIVER AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period For Eastend Area	7	8	9	10	11	12	13
Eastend Reservoir Depletion	Measured	Eastend Canal	Return Flow	Eastend Area	Gross Depletion At	Channel Loss At inter - National Boundary	Net Depletion At Eastend
Observed	Measured	Computed	Minor Use	Eastend	Computed	Computed	11-12
Feb 23-Mar 8	81	0	0	18	99	99	0
Mar 9 - 24	1 898	0	0	112	2 010	378	1 632
Mar 25-Apr 8	308	0	0	83	391	209	182
Apr 9 - 23	371	0	0	9	380	214	166
Apr 24-May 8	-61	0	0	271	210	189	21
May 9 - 24	-784	2 331	583	104	1 068	415	653
May 25-Jun 8	-274	1 429	357	24	822	376	446
Jun 9 - 23	299	0	0	0	299	230	69
Jun 24-Jul 8	283	0	0	0	283	224	59
Jul 9 - 24	303	0	0	0	303	239	64
Jul 25-Aug 8	-358	624	156	0	110	110	0
Aug 9 - 24	-58	0	0	0	-58	-58	0
Aug 25-Sep 8	-189	0	0	0	-189	-186	-3
Sep 9 - 23	743	0	0	0	743	324	419
Sep 24-Oct 8	81	0	0	0	81	81	0
Oct 9 - 24	-2 029	0	0	0	-2 029	-472	-1 557
Total	614	4 384	1 096	621	4 523	2 373	2 150

All values are derived from data as published in Appendix B.
All quantities in cubic decametres.

Table 14 (continued): NATURAL FLOW OF FRENCHMAN RIVER AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

	14	15	16	17	18	19	20	21	22	23	24	25
Period For Val Marie Area	Huff Lake Net Depletion	Newton Lake Net Depletion	Total Change In Reservoir Contents	Huff Lake Gravity Canal	Huff Lake Pumping Canal	Newton Lake Main Canal	Total Canal Diversion	Return Flow	Val Marie Minor Use	Gross Depletion At Val Marie	Channel Loss To Boundary	Net Depletion At Val Marie
	Observed	Observed	14+15	Measured	Measured	Measured	17+18+19	Computed	Reported	16+20-21+22	Computed	23 - 24
Feb 27-Mar 12	928	3 011	3 939	0	0	0	0	0	19	3 958	229	3 729
Mar 13 - 28	-57	-583	-640	0	0	0	0	0	127	-513	-96	-417
Mar 29-Apr 12	230	279	509	0	0	0	0	0	72	581	104	477
Apr 13 - 27	22	-719	-697	0	0	0	0	0	0	-697	-111	-586
Apr 28-May 12	459	302	761	0	0	0	0	0	15	776	144	632
May 13 - 28	-481	695	214	989	255	0	1 244	311	307	1 454	216	1 238
May 29-Jun 12	-583	-3 095	-3 678	955	783	4 433	6 171	1 543	123	1 073	234	839
Jun 13 - 27	747	2 194	2 941	0	102	804	906	227	0	3 620	641	2 979
Jun 28-Jul 12	153	411	564	0	0	0	0	0	0	564	152	412
Jul 13 - 28	67	444	511	0	0	0	0	0	0	511	148	363
Jul 29-Aug 12	100	259	359	0	0	0	0	0	0	359	119	240
Aug 13 - 28	-375	-434	-809	0	0	0	0	0	142	-667	-173	-494
Aug 29-Sep 12	10	-80	-70	0	0	0	0	0	0	-70	-70	0
Sep 13 - 27	-2 445	881	-1 564	0	0	0	0	0	0	-1 564	-223	-1 341
Sep 28-Oct 12	464	-922	-458	0	0	0	0	0	0	-458	-97	-361
Oct 13 - 28	2 152	18	2 170	0	0	0	0	0	0	2 170	204	1 966
Total	1 391	2 661	4 052	1 944	1 140	5 237	8 321	2 081	805	11 097	1 422	9 675

All values are derived from data as published in Appendix B.
All quantities in cubic decimetres.

Table 14 (continued): NATURAL FLOW OF FRENCHMAN RIVER AT THE INTERNATIONAL BOUNDARY FOR THE YEAR 2014

Period At International Boundary	Near International Boundary Minor Use	Net Depletion In Canada	Frenchman River at International Boundary	Natural Flow Of Frenchman River	U.S.A. Share Of Natural Flow	Excess Flow To The U.S.A.	Deficit(-) To Date	Sum of 31
	Reported	6+13+25+26	Measured	27+28	50% of 29	28+30		
Mar 1 - 15	0	3 729	21 711	25 440	12 720	8 991	0	
Mar 16 - 31	0	3 914	26 851	30 765	15 382	11 469	0	
Apr 1 - 15	0	807	7 443	8 250	4 125	3 318	0	
Apr 16 - 30	0	786	5 808	6 594	3 297	2 511	0	
May 1 - 15	0	898	3 395	4 293	2 147	1 248	0	
May 16 - 31	0	1 891	1 307	3 198	1 599	-292	-292	
Jun 1 - 15	0	1 585	2 511	4 096	2 048	463	0	
Jun 16 - 30	0	3 048	26 968	30 016	15 008	11 960	0	
Jul 1 - 15	0	471	2 391	2 862	1 431	960	0	
Jul 16 - 31	0	427	4 881	5 308	2 654	2 227	0	
Aug 1 - 15	0	240	959	1 199	599	360	0	
Aug 16 - 31	0	-494	4 563	4 069	2 034	2 529	0	
Sep 1 - 15	0	251	3 190	3 441	1 720	1 470	0	
Sep 16 - 30	0	-922	2 743	1 821	910	1 833	0	
Oct 1 - 15	0	-361	1 259	898	449	810	0	
Oct 16 - 31	0	408	1 217	1 625	813	404	0	
Total	0	16 676	117 197	133 873	66 936	50 261	0	

All values are derived from data as published in Appendix B.
All quantities in cubic decameters

Approved by:


John M. Kiphauck For Canada

John M. Kiphauck For the United States

**Table 15: HISTORICAL SUMMARY OF MARCH TO OCTOBER COMPUTED NATURAL AND RECORDED FLOW
FRENCHMAN RIVER AT INTERNATIONAL BOUNDARY
(VALUES IN CUBIC DECAMETRES)**

YEAR	COMPUTED NATURAL FLOW	CANADIAN & U.S.A. SHARES	RECORDED FLOW	YEAR	COMPUTED NATURAL FLOW	CANADIAN & U.S.A. SHARES	RECORDED FLOW
1940	101,400	50,700	84,120	1980	33,440	16,720	17,780
1941	71,120	35,560	57,560	1981	18,140	9,070	8,310
1942	72,190	36,095	52,210	1982	114,700	57,350	82,530
1943	164,700	82,350	147,000	1983	44,230	22,115	22,990
1944	69,630	34,815	50,560	1984	11,920	5,960	5,640
1945	42,630	21,315	28,440	1985	42,500	21,250	22,180
1946	39,800	19,900	26,460	1986	107,000	53,500	74,060
1947	65,090	32,545	43,190	1987	79,590	39,795	59,520
1948	48,950	24,475	31,000	1988	13,510	6,755	6,050
1949	17,680	8,840	8,000	1989	22,760	11,380	12,020
1950	93,280	46,640	73,590	1990	34,430	17,215	19,950
1951	137,500	68,750	110,900	1991	101,500	50,750	72,100
1952	445,200	222,600	433,500	1992	11,100	5,550	5,980
1953	92,360	46,180	71,990	1993	77,310	38,655	49,220
1954	109,700	54,850	92,480	1994	97,860	48,930	76,410
1955	230,300	115,150	210,300	1995	25,130	12,565	12,340
1956	59,650	29,825	41,950	1996	168,900	84,450	134,200
1957	48,050	24,025	32,710	1997	192,000	96,000	166,700
1958	79,380	39,690	64,280	1998	19,530	9,765	9,500
1959	64,040	32,020	41,230	1999	83,560	41,780	59,260
1960	94,050	47,025	75,440	2000	29,260	14,630	14,950
1961	23,060	11,530	11,490	2001	11,810	5,905	6,380
1962	78,090	39,045	48,240	2002	59,740	29,870	37,940
1963	57,730	28,865	41,790	*	2003	65,540	32,770
1964	25,050	12,525	13,300		2004	71,660	35,830
1965	132,100	66,050	95,070	*	2005	38,840	19,420
1966	91,180	45,590	66,470		2006	40,040	20,020
1967	130,900	65,450	107,600		2007	58,470	29,235
1968	49,720	24,860	27,010	*	2008	26,050	13,025
1969	97,920	48,960	71,540		2009	33,850	16,925
1970	133,400	66,700	102,500	**	2010	71,020	35,510
1971	57,120	28,560	39,360		2011	241,800	120,900
1972	45,900	22,950	24,990		2012	47,800	23,900
1973	27,470	13,735	14,720		2013	96,990	48,495
1974	104,100	52,050	75,610		2014	133,900	66,950
1975	92,000	46,000	60,720		AVERAGE		
1976	90,690	45,345	73,980		1940-2013	77,900	38,950
1977	12,730	6,365	8,270				58,840
1978	67,920	33,960	41,310				
1979	108,500	54,250	77,360				

* Period 16 extended to include Nov. 1-5 data.

** For comparison purposes, totals for Mar 1 to Oct 31 are shown. Additional periods are not included.

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International Gauging Stations Joint Review and Approval of Records

Pursuant to Article V of the International Joint Commission Order of October 4, 1921, the International Gauging Stations listed below have been operated and maintained by the Water Survey of Canada and the United States Geological Survey on a joint basis.

It is hereby certified that the annexed records have been computed in accordance with standard procedures of each country and jointly reviewed and approved on this 19th day of February, 2015.

St. Mary River at International Boundary	05AE027
Lake Sherburne at Sherburne, Montana	05AE036
St. Mary Canal at St. Mary Crossing	05AE029
Milk River at Eastern Crossing of International Boundary	11AA031
Milk River at Western Crossing of International Boundary	11AA025
North Fork Milk River above St. Mary Canal, near Browning, Montana	11AA032
North Milk River near International Boundary	11AA001
Milk River at Milk River, Alberta	11AA005


John M. Kilpatrick
Field Representative for the United States


Michael J. MacLean
Field Representative for Canada

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

DISCHARGE IN CUBIC METERS PER SECOND, CALENDAR YEAR JANUARY TO DECEMBER 2014
ST MARY RIVER AT INTERNATIONAL BOUNDARY
DAILY MEAN VALUES

05020500

05AB027

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	e2.97	e2.41	e2.26	6.00	31.7	81.2	99.0	e17.5	14.2	8.38	10.4	e14.2
2	e2.97	e2.41	e2.26	5.77	34.2	77.0	93.7	e17.9	14.7	8.83	11.0	e14.7
3	e2.83	e2.41	e2.41	5.77	37.1	75.3	89.4	e18.3	16.5	8.66	11.2	e14.7
4	e2.97	e2.41	e2.41	5.86	39.6	74.1	85.2	e18.3	18.1	8.94	11.3	e14.2
5	e3.11	e2.26	e2.55	6.06	41.6	75.0	82.9	e18.4	18.3	8.43	11.9	e13.6
6	e3.11	e2.26	e2.83	6.11	42.2	74.7	80.4	e18.2	18.5	8.18	12.0	e12.7
7	e3.11	e2.26	e3.11	6.42	42.7	71.9	78.7	e17.2	17.1	7.87	12.9	e12.2
8	e3.11	e2.26	e3.40	7.36	41.9	68.2	75.8	e17.0	16.5	14.2	12.1	
9	e3.11	e2.12	e3.68	10.3	41.3	64.8	71.9	e17.0	16.7	7.53	14.8	11.7
10	e2.83	e1.98	e3.96	10.8	41.0	65.7	69.1	e16.1	17.1	7.50	15.4	11.9
11	e2.97	e2.12	e4.25	11.1	42.2	67.1	67.1	e15.5	19.2	7.44	e15.8	11.9
12	e3.11	e2.26	e4.53	11.9	42.2	65.4	64.5	e15.5	20.7	7.47	e15.8	12.2
13	e3.25	e2.26	e5.09	11.6	40.8	65.9	61.7	e15.8	19.7	7.47	e15.3	12.2
14	e3.25	e2.26	e5.66	12.0	37.9	66.5	58.6	16.2	18.7	7.41	e14.7	12.3
15	e3.25	e2.12	e6.51	12.3	36.2	65.7	57.7	17.5	18.0	7.05	e14.2	12.0
16	e3.25	e2.26	e7.36	13.0	39.3	63.7	55.2	18.4	16.7	6.85	e13.0	e12.2
17	e3.25	e2.26	e8.49	13.0	43.3	104	52.1	18.3	15.1	6.74	12.3	e12.2
18	e3.11	e2.41	e9.06	13.5	44.7	185	49.8	18.5	13.6	6.45	11.8	12.3
19	e3.11	e2.55	e9.34	13.2	48.4	241	48.4	18.3	12.4	6.68	11.0	12.2
20	e3.11	e2.55	e9.62	13.2	52.6	e224	45.8	17.6	11.3	6.45	10.9	12.2
21	e2.97	e2.41	e9.90	14.0	56.0	e197	44.4	19.0	10.6	6.31	10.9	12.0
22	e2.83	e2.41	e9.62	15.7	60.9	e183	42.2	19.8	9.99	6.45	10.2	11.5
23	e2.69	e2.41	e9.06	17.5	69.3	e169	38.8	20.2	9.42	6.54	9.62	10.8
24	e2.69	e2.41	e8.49	19.1	80.9	151	35.1	19.5	9.00	7.50	9.14	10.9
25	e2.55	e2.55	e7.36	21.5	91.4	135	32.3	18.8	8.72	8.01	8.32	10.4
26	e2.55	e2.55	6.62	26.3	94.5	128	28.6	17.2	8.49	9.23	8.21	e9.90
27	e2.69	e2.55	6.45	29.1	97.4	122	25.5	15.8	8.41	9.68	8.38	e9.34
28	e2.69	e2.41	6.28	30.8	99.3	113	23.0	14.3	8.53	10.4	e9.90	e8.49
29	e2.55	--	6.51	30.8	99.6	108	21.2	14.5	8.52	11.0	11.3	e7.92
30	e2.55	--	6.65	30.8	94.5	104	e19.6	14.8	8.60	10.9	e12.6	e7.36
31	e2.55	--	6.34	--	88.0	--	e17.8	14.6	--	10.7	--	e6.79
TOTAL	91.09	65.53	182.06	430.85	1751.8	3286.2	1715.5	536.0	423.48	248.66	358.47	359.10
MEAN	2.938	2.340	5.873	14.36	56.51	109.5	55.34	17.29	14.12	8.021	11.95	11.58
MAX	3.25	2.55	9.90	30.8	99.6	241	99.0	20.2	20.7	11.0	15.8	14.7
MIN	2.55	1.98	2.26	5.77	31.7	63.7	14.7	14.3	8.41	6.31	8.21	6.79
DAM3	7870	5660	15730	37220	145310	283300	148200	46310	36590	21480	30970	31030

FOR THE SEASON, MARCH TO OCTOBER:
 TOTAL DISCHARGE: 740 800 DAM3
 MAX INST DISCHARGE: 26.9 M3/S AT 0730 HRS ON JUNE 19 (G.H. 2.743 M)
 MIN DAILY DISCHARGE: 1.98 M3/S ON FEB 10

FOR THE YEAR 2014:
 TOTAL DISCHARGE: 816 400 DAM3
 MAX DAILY DISCHARGE: 1.98 M3/S ON FEB 10

APPROVED BY FIELD REPRESENTATIVES OF THE UNITED STATES AND CANADA

e-Estimated

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - WRD

05015500 LAKE SHERBURNE AT SHERBURNE, MT 05AE036

Month-end gage heights and contents at 2400 hours

Date	Gage height (metres)	Contents (cubic decametres)	Change in Contents (cubic decametres)
Sept. 30, 2013	1448.029	21 660	
Oct. 31, 2013	1450.199	30 440	+8 780
Nov. 30, 2013	1451.241	35 030	+4 590
Dec. 31, 2013	1451.790	37 540	+2 510
		<i>Total 2013 calendar year</i>	-29 400
Jan. 31, 2014	1452.308	39 970	+2 430
Feb. 28, 2014	1452.665	41 670	+1 700
Mar. 31, 2014	1453.680	46 680	+5 010
Apr. 30, 2014	1453.975	48 190	+1 510
May 31, 2014	1456.380	61 890	+13 700
June 30, 2014	1459.029	79 140	+17 250
July 31, 2014	1458.806	77 620	-1 520
Aug. 31, 2014	1454.094	48 800	-28 820
Sept. 30, 2014	1451.967	38 360	-10 440
		<i>Total 2014 water year</i>	+16 700
Oct. 31, 2014	1453.390	45 220	+6 860
Nov. 30, 2014	1455.588	57 140	+11 920
Dec. 31, 2014	1456.978	65 610	+8 470
		<i>Total 2014 calendar year</i>	+28 070

Maximum total contents: 81 290 dam³ at 1415 hrs on June 21 (gage height 1459.340 m).Minimum total contents: 36 630 dam³ at 1930 hrs on September 19 (gage height 1451.592 m).

APPROVED BY FIELD REPRESENTATIVES OF THE UNITED STATES AND CANADA

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Calgary, AB
November 10, 2015 13:00

ST. MARY CANAL AT ST. MARY CROSSING
Station No.: 05AE029

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Discharge Units: Cubic Metres Per Second	
													Total Units:	Cubic Decametres
1	---	---	0	0	16.6	16.4	16.7	15.6	0	---	---	---	1	---
2	---	---	0	0	16.4	16.7	16.7	14.8	0	---	---	---	2	---
3	---	---	0	0	16.3	16.6	16.7	12.8	0	---	---	---	3	---
4	---	---	0	0	16.2	16.5	16.7	10.6	0	---	---	---	4	---
5	---	---	0	0	16.2	16.5	16.7	8.59	0	---	---	---	5	---
6	---	---	0	0	16.5	16.4	16.7	6.50	0	---	---	---	6	---
7	---	---	0	0	16.9	16.5	16.6	6.37	0	---	---	---	7	---
8	---	---	0	0	16.8	16.8	16.6	5.86	0	---	---	---	8	---
9	---	---	0	0	16.7	16.8	16.6	4.79	0	---	---	---	9	---
10	---	---	0	0	16.8	16.7	16.6	4.63	0	---	---	---	10	---
11	---	---	0	0	16.8	16.7	16.6	2.41	0	---	---	---	11	---
12	---	---	0	0	16.8	16.6	16.9	0.356	0	---	---	---	12	---
13	---	---	0	0	16.9	16.6	16.8	0.174	0	---	---	---	13	---
14	---	---	0	0	3.60	16.8	16.5	0.144	0	---	---	---	14	---
15	---	---	0	0	6.59	16.8	16.5	16.9	0.047	0	---	---	15	---
16	---	---	0	0	9.63	16.7	16.5	16.9	0	---	---	---	16	---
17	---	---	0	0	12.1	16.3	16.5	16.8	0	0	0	0	17	---
18	---	---	0	0	14.1	13.1	16.6	16.8	0	0	0	0	18	---
19	---	---	0	0	14.9	12.6	16.6	16.9	0	0	0	0	19	---
20	---	---	0	0	14.5	11.5	16.5	16.9	0	0	0	0	20	---
21	---	---	0	0	14.7	14.3	16.4	16.8	0	0	0	0	21	---
22	---	---	0	0	16.4	14.1	16.5	16.5	0	0	0	0	22	---
23	---	---	0	0	16.8	14.4	16.6	16.5	0	0	0	0	23	---
24	---	---	0	0	17.3	15.6	16.4	16.4	0	0	0	0	24	---
25	---	---	0	0	17.5	17.3	16.5	16.4	0	0	0	0	25	---
26	---	---	0	0	17.6	17.1	16.7	16.5	0	0	0	0	26	---
27	---	---	0	0	17.3	16.8	16.6	16.7	0	0	0	0	27	---
28	---	---	0	0	17.3	16.6	16.5	16.6	0	0	0	0	28	---
29	---	---	0	0	17.4	16.5	16.4	16.3	0	0	0	0	29	---
30	---	---	0	0	17.2	16.4	16.4	15.8	0	0	0	0	30	---
31	---	---	0	0	16.8	16.7	16.7	15.8	0	0	0	0	31	---
Mean	---	---	0	0	8.46	16.0	16.6	16.6	3.13	0	0	0	---	---
Total	---	---	0	0	22700	41400	44500	8100	0	0	0	0	---	---
Max (day)	---	0	0	17.9	17.6	16.9	17.0	15.8	0	0	0	0	---	---
Min (day)	---	1 00:00	1 00:00	26 10:15	25 09:15	8 02:00	15 06:00	1 07:30	1 00:00	1 00:00	0	0	0	0
A - Manual Gauge	B - Ice Conditions	C - Estimated	D - Dry											

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY FIELD REPRESENTATIVES OF THE UNITED STATES AND CANADA

06135000

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

11AAA031

EASTERN CROSSING MILK RIVER AT INTERNATIONAL BOUNDARY

DISCHARGE IN CUBIC METERS PER SECOND, CALENDAR YEAR JANUARY TO DECEMBER 2014

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	e1.70	e7.36	7.92	19.3	34.2	16.0	20.1	2.46	---	---
2	---	---	e1.84	e7.98	8.32	18.7	32.0	15.7	19.1	2.49	---	---
3	---	---	e1.98	e9.03	9.20	e18.7	31.4	15.9	18.5	2.46	---	---
4	---	---	e1.98	e11.2	9.03	17.8	31.1	17.1	23.8	2.38	---	---
5	---	---	e2.26	e12.8	7.81	e17.6	29.7	17.5	15.5	2.29	---	---
6	---	---	e2.26	e12.3	8.21	e17.6	27.9	17.9	14.3	2.38	---	---
7	---	---	e2.55	e12.0	9.76	e17.7	26.3	18.3	14.2	2.43	---	---
8	---	---	e2.55	e11.3	12.1	17.1	26.1	21.1	14.3	2.77	---	---
9	---	---	e2.83	e13.8	11.9	16.8	26.1	18.7	13.2	2.83	---	---
10	---	---	e5.66	e15.4	11.0	16.6	25.0	16.8	12.2	2.77	---	---
11	---	---	e22.6	16.9	10.2	16.5	23.8	16.4	13.4	2.89	---	---
12	---	---	e84.9	18.7	8.86	16.4	23.5	16.2	13.4	2.97	---	---
13	---	---	e70.8	14.8	7.08	16.6	22.2	15.7	11.4	2.80	---	---
14	---	---	e79.2	12.5	6.93	18.4	21.1	15.3	9.74	2.58	---	---
15	---	---	e67.9	11.1	6.96	e19.4	19.9	15.7	8.60	2.38	---	---
16	---	---	e56.6	10.5	6.59	19.8	18.9	16.0	7.78	2.43	---	---
17	---	---	e45.3	9.42	7.05	28.9	18.4	20.3	6.65	2.55	---	---
18	---	---	36.5	7.90	6.54	25.3	18.1	17.7	5.74	2.46	---	---
19	---	---	31.1	7.70	6.25	30.8	18.2	18.1	4.78	2.29	---	---
20	---	---	27.9	6.96	9.54	71.6	18.7	17.5	4.27	2.24	---	---
21	---	---	19.7	6.31	17.7	120	19.0	17.7	3.91	e2.15	---	---
22	---	---	9.37	6.06	19.0	92.0	e18.9	22.4	3.62	e2.12	---	---
23	---	---	7.10	e20.4	64.2	e18.9	23.8	3.40	3.25	2.04	---	---
24	---	---	10.3	7.08	e10.7	e50.1	e19.1	18.0	3.08	1.98	---	---
25	---	---	5.49	6.20	e19.3	e41.6	e18.8	19.5	---	---	---	---
26	---	---	4.75	6.76	e20.5	e37.1	e18.4	18.8	2.89	1.95	---	---
27	---	---	4.50	7.98	e21.2	e35.7	e17.1	18.9	2.69	2.15	---	---
28	---	---	4.90	7.90	e20.3	e37.6	e17.2	20.1	2.63	2.29	---	---
29	---	---	3.91	8.57	20.1	38.5	e16.4	21.5	2.55	2.24	---	---
30	---	---	5.58	8.12	19.8	34.8	16.2	21.0	2.52	2.12	---	---
31	---	---	e9.28	---	19.8	---	15.9	20.0	---	2.18	---	---
TOTAL	---	---	633.29	301.73	389.05	993.2	689.1	565.6	281.50	74.22	---	---
MEAN	---	---	20.43	10.06	12.55	33.11	22.23	18.25	9.383	2.394	---	---
MAX	---	---	84.9	18.7	21.2	120	34.2	23.8	2.97	---	---	---
MIN	---	---	1.70	6.06	6.25	16.4	15.9	15.3	2.52	1.95	---	---
DAM3	---	---	54720	26070	33610	85810	59540	48870	24320	6410	---	---

FOR THE SEASON, MARCH TO OCTOBER:

TOTAL DISCHARGE: 339 400 DAM3

MAX INST DISCHARGE: 132 M3/S AT 0700 HRS ON JUN 21 (G.H. 2.045 M)

MIN DAILY DISCHARGE: 1.70 M3/S ON MAR 1

e--Estimated

APPROVED BY FIELD REPRESENTATIVES OF THE UNITED STATES AND CANADA

06133500

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

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

11AA032

DISCHARGE, IN CUBIC METERS PER SECOND, CALENDAR YEAR JANUARY TO DECEMBER 2014
DAILY MEAN VALUES

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	e0.283	e0.708	0.736	0.509	0.906	0.481	0.594	0.708	---	---
2	---	---	e0.340	0.821	0.849	0.509	0.877	0.509	0.566	0.623	---	---
3	---	---	e0.396	0.849	0.906	0.509	0.849	0.538	0.594	0.623	---	---
4	---	---	e0.509	1.05	0.906	0.538	0.821	0.509	0.623	0.679	---	---
5	---	---	e0.566	1.90	0.821	0.509	0.764	0.509	0.594	0.594	---	---
6	---	---	e0.566	2.15	0.792	0.481	0.764	0.509	0.594	0.594	---	---
7	---	---	e0.679	2.75	0.736	0.453	0.764	0.481	0.566	0.566	---	---
8	---	---	e0.991	3.99	0.651	0.453	0.736	0.509	0.566	0.566	---	---
9	---	---	e1.98	2.94	0.679	0.453	0.708	0.509	0.623	0.594	---	---
10	---	---	e2.83	1.36	0.708	0.453	0.708	0.509	0.708	0.566	---	---
11	---	---	e2.12	1.10	0.792	0.481	0.906	0.481	0.708	0.566	---	---
12	---	---	e1.70	1.08	0.821	0.481	0.736	0.481	0.708	0.594	---	---
13	---	---	e1.56	0.849	0.679	0.509	0.679	0.509	0.679	0.566	---	---
14	---	---	e1.42	0.821	0.679	0.594	0.651	0.509	0.651	0.594	---	---
15	---	---	e1.13	0.792	0.708	0.566	0.679	0.651	0.623	0.566	---	---
16	---	---	e1.27	0.821	0.764	0.481	0.679	0.594	0.594	0.594	---	---
17	---	---	e1.56	0.764	0.679	3.25	0.623	0.538	0.594	0.594	---	---
18	---	---	e1.13	0.877	0.679	6.03	0.623	0.566	0.566	0.594	---	---
19	---	---	e0.708	0.792	0.679	5.91	0.594	0.538	0.566	0.594	---	---
20	---	---	e0.566	0.764	0.679	2.29	0.594	0.566	0.566	0.594	---	---
21	---	---	e0.396	0.792	0.651	1.64	0.566	0.679	0.566	0.594	---	---
22	---	---	e0.368	0.764	0.623	1.39	0.566	0.736	0.566	0.623	---	---
23	---	---	e0.424	0.877	0.623	1.27	0.594	0.962	0.566	0.594	---	---
24	---	---	e0.453	0.792	0.623	1.16	0.566	0.792	0.566	0.623	---	---
25	---	---	e0.453	0.736	0.594	1.10	0.538	0.679	0.566	0.623	---	---
26	---	---	e0.453	0.821	0.566	1.13	0.509	0.623	0.566	0.623	---	---
27	---	---	e0.453	0.821	0.566	1.25	0.509	0.594	0.538	0.594	---	---
28	---	---	e0.424	0.877	0.651	1.02	0.509	0.594	0.594	0.594	---	---
29	---	---	e0.509	0.736	0.594	0.962	0.481	0.623	0.594	0.594	---	---
30	---	---	e0.566	0.708	0.538	0.906	0.481	0.594	0.623	0.594	---	---
31	---	---	e0.623	---	0.509	---	0.481	0.594	---	0.594	---	---
TOTAL	---	---	27.426	35.102	21.481	37.287	20.461	17.966	18.028	18.619	---	---
MEAN	---	---	0.885	1.170	0.693	1.243	0.660	0.580	0.601	0.601	---	---
MAX	---	---	2.83	3.99	0.906	6.03	0.906	0.962	0.708	0.708	---	---
MIN	---	---	0.283	0.708	0.509	0.453	0.481	0.481	0.538	0.566	---	---
DAM3	---	---	2370	3030	1860	3220	1770	1550	1560	1610	---	---

FOR THE SEASON, MARCH TO OCTOBER:

TOTAL DISCHARGE: 16 970 DAM3

MAX INST DISCHARGE: 8.92 M3/S AT 0100 HRS ON JUN 18 (G.H. 2.225 M)

MIN DAILY DISCHARGE: 0.283 M3/S ON MAR 1

e--Estimated.

APPROVED BY FIELD REPRESENTATIVES OF THE UNITED STATES AND CANADA

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International Gauging Stations Joint Review and Approval of Records

Pursuant to Article V of the International Joint Commission Order of October 4, 1921, the International Gauging Stations listed below have been operated and maintained by the Water Survey of Canada and the United States Geological Survey on a joint basis.

It is hereby certified that the annexed records have been computed in accordance with standard procedures of each country and jointly reviewed and approved on this 19th day of February, 2015.

Lodge Creek Below McRae Creek at International Boundary	11AB083
Middle Creek near Saskatchewan Boundary	11AB009
Middle Creek below Middle Creek Reservoir	11AB001
Middle Creek above Lodge Creek	11AB008
Middle Creek near Govenlock	11AB108
Altawan Reservoir near Govenlock	11AB089
Spangler Ditch near Govenlock	11AB060
Battle Creek at International Boundary	11AB027
Gaff Ditch near Merryflat	11AB102
Cypress Lake West Inflow Canal	11AB078
Cypress Lake West Inflow Canal Drain	11AB085
Cypress Lake West Outflow Canal	11AB077
Vidora Ditch near Consul	11AB084
Richardson Ditch near Consul	11AB058
McKinnon Ditch near Consul	11AB044
Nashlyn Canal near Consul	11AB018
Frenchman River at International Boundary	11AC041
Belanger Creek Diversion to Cypress Lake	11AC064
Cypress Lake	11AC037
Cypress Lake East Outflow Canal	11AC060
Eastend Reservoir	11AC055
Eastend Canal near Eastend	11AC052
Huff Lake	11AC063
Huff Lake Gravity Canal	11AC065
Huff Lake Pumping Canal	11AC066
Newton Lake	11AC056
Newton Lake Main Canal	11AC054


John M. Kibbithuk
Field Representative for the United States


Michael J. Anderson
Field Representative for Canada

WATER SURVEY CANADA
 Daily Mean Discharge Report for 2014
 Regina, SK
 June 4, 2015 13:06

LOGGE CREEK BELOW MCRAE CREEK AT INTERNATIONAL BOUNDARY
 Station No.: 11AB083

Day	DISCHARGE UNITS:						CUBIC METRES PER SECOND					
	Total Units:	Cubic Decametres										
1	---	0 E	0.563	0.872	0.086	0.085	0.025	0.200	0.004	---	---	1
2	---	0 E	0.474	0.764	0.074	0.070	0.021	0.159	0.004	---	---	2
3	---	0 E	0.443	0.745	0.064	0.048	0.017	0.135	0.003	---	---	3
4	---	0 E	0.584	0.713	0.053	0.035	0.014	0.112	0.003	---	---	4
5	---	0 E	0.639	0.628	0.041	0.026	0.013	0.092	0.002	---	---	5
6	---	0 E	0.569	0.574	0.078	0.022	0.011	0.075	0.002	---	---	6
7	---	0 E	0.504	0.590	0.125	0.024	0.009	0.065	0.002	---	---	7
8	---	0 E	0.570	0.699	0.120	0.020	0.007	0.056	0.002	---	---	8
9	0.045	E	2.601	0.593	0.098	0.015	0.005	0.045	0.002	---	---	9
10	---	0.309	E	3.838	0.551	0.077	0.011	0.004	0.034	0.002	---	10
11	---	0.539	E	4.808	0.543	0.048	0.008	0.003	0.041	0.002	---	11
12	---	0.478	E	4.571	0.522	0.029	0.012	0.003	0.044	0.002	---	12
13	---	0.696	3.294	0.478	0.20	0.025	0.002	0.041	0.002	---	---	13
14	---	0.393	2.501	0.400	0.015	0.019	0.002	0.037	0.002	---	---	14
15	---	0.759	2.026	0.303	0.011	0.013	0.002	0.032	0.002	---	---	15
16	---	0.613	1.122	0.235	0.008	0.009	0.002	0.027	0.003	---	---	16
17	---	0.319	1.243	0.191	0.013	0.006	0.002	0.023	0.003	---	---	17
18	---	3.970	1.025	0.129	0.021	0.004	0.002	0.020	0.003	---	---	18
19	---	11.735	0.870	0.138	0.017	0.003	0.002	0.020	0.003	---	---	19
20	---	9.196	0.801	0.135	0.012	0.002	0.002	0.020	0.003	---	---	20
21	---	5.899	0.650	0.105	0.009	0.002	0.002	0.018	0.002	---	---	21
22	---	4.403	0.629	0.078	0.007	0.001	0.007	0.021	0.004	---	---	22
23	---	3.008	0.554	0.060	0.007	0.001	0.085	0.018	0.005	---	---	23
24	0 E	2.360	0.719	0.047	0.039	0.039	0.0562	0.014	0.004	---	---	24
25	0 E	1.878	0.826	0.036	0.044	0.622	1.084	0.011	0.003	---	---	25
26	0 E	1.576	0.893	0.030	0.033	0.276	1.160	0.009	0.002	---	---	26
27	0 E	1.230	1.412	0.024	0.031	0.153	0.754	0.006	0.002	---	---	27
28	0 E	1.020	1.405	0.020	0.028	0.101	0.473	0.005	0.001	---	---	28
29	0.887	1.185	0.017	0.044	0.068	0.332	0.005	0.002	0.002	---	---	29
30	---	0.723	1.009	0.078	0.073	0.045	0.249	0.005	0.005	---	---	30
31	---	0.584	0.95	0.095	0.030	0.231	0.10	0.010	0.003	---	---	31
Mean	---	1.697	1.427	0.335	0.044	0.058	0.164	0.046	0.003	---	---	
Total	---	4546.412	3700.023	897.933	114.592	155.105	439.305	119.903	7.99	---	---	
Max	(day)	15.36	5.364	1.007	0.135	0.878	1.431	0.228	0.011	---	---	
Min	(day)	24 03:40	19 17:40	11 19:40	1 00:00	7 15:45	25 01:40	25 04:25	1 00:00	31 15:15	---	
		0	0	0.429	0.015	0.007	0.001	0.002	0.004	0	---	
		24 03:40	1 00:00	3 08:05	29 20:25	21 21:00	20 22:45	12 16:45	29 06:15	28 19:50		
		A - Manual Gauge	B - Ice Conditions	E - Estimated	D - Dry							

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

STORAGE FACTORS AND EVAPORATION LOSSES
2014

MICHEL RESERVOIR

11AB091

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman Evap. Adjusted for Elevation (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	1102.275	2410	0.000	0	859	866	7
2	1102.482	2440	0.000	0	866	917	51
3	1102.608	2490	0.000	0	917	947	30
4	1102.526	2497	0.023	6	947	927	-14
5	1102.475	2471	0.039	10	927	915	-2
6	1102.458	2460	0.066	16	915	910	11
7	1102.447	2460	0.050	12	910	907	9
8	1102.460	2460	0.020	5	907	912	10
9	1102.415	2450	0.083	20	912	900	8
10	1102.340	2440	0.071	17	900	883	0
11	1102.279	2420	0.061	15	883	866	-2
12	1102.289	2410	0.006	1	866	868	3
13	1102.307	2418	0.034	8	868	873	13
14	1102.271	2410	0.051	12	873	866	5
15	1102.236	2404	0.034	8	866	856	-2
16	1102.221	2399	0.020	5	856	854	3

Stage-capacity curve # 2.00 and stage-area curve # 2.01 were used in 2014 computations.

STORAGE FACTORS AND EVAPORATION LOSSES
2014

GREASEWOOD RESERVOIR

11AB092

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman Evap. Adjusted for Elevation (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	29.017	369	0.000	0	66	71	5
2	30.213	499	0.000	0	71	145	74
3	30.240	622	0.000	0	145	149	4
4	30.247	626	0.023	1	149	150	2
5	30.211	622	0.039	2	150	145	-3
6	30.194	617	0.066	4	145	143	2
7	29.941	588	0.050	3	143	116	-24
8	29.442	513	0.020	1	116	89	-26
9	29.209	451	0.083	4	89	79	-6
10	28.156	334	0.071	2	79	43	-34
11	28.122	275	0.061	2	43	42	1
12	28.365	285	0.006	0	42	49	7
13	28.755	320	0.034	1	49	61	13
14	28.782	345	0.051	2	61	62	3
15	28.817	349	0.034	1	62	64	3
16	28.910	357	0.020	1	64	67	4

STORAGE FACTORS AND EVAPORATION LOSSES
2014

MASSY RESERVOIR

11AB104

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman Evap. Adjusted for Elevation (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	27.776	786	0.000	0	91	119	28
2	28.939	911	0.000	0	119	227	108
3	28.969	1331	0.000	0	227	230	3
4	28.983	1356	0.023	3	230	231	4
5	28.916	1325	0.039	5	231	225	-1
6	28.923	1291	0.066	8	225	225	8
7	28.963	1318	0.050	7	225	229	11
8	28.929	1322	0.020	3	229	226	0
9	28.715	1190	0.083	10	226	204	-12
10	28.663	1076	0.071	8	204	198	2
11	28.219	952	0.061	6	198	157	-35
12	27.505	825	0.006	1	157	97	-59
13	27.926	805	0.034	3	97	131	37
14	27.884	831	0.051	4	131	127	0
15	27.841	825	0.034	3	127	124	0
16	27.821	821	0.020	2	124	123	1

The zero capacity WL is set on the current use table (No. 1) at 23.774 m.

Based on observations on July 11, 2001, it is estimated that the zero capacity WL is approx. 24.300 m.
All periods below 24.300 m will be treated as zero capacity.

Stage-capacity Table No. 1 was extended from 29.260 m (262 dam³) to 29.300 m (270 dam³).

Stage-area Table No. 1 was extended from 28.950 m (1326 dam²) to 29.300m (1711 dam²).

STORAGE FACTORS AND EVAPORATION LOSSES
2014

BARE CREEK RESERVOIR

11AB094

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman Evap. Adjusted for Elevation (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	1135.168	3300	0.000	0	1143	1162	19
2	1136.628	3835	0.000	0	1162	1715	553
3	1137.144	4692	0.000	0	1715	1951	236
4	1137.390	5096	0.023	12	1951	2079	140
5	1137.380	5235	0.039	20	2079	2073	14
6	1137.382	5230	0.066	34	2073	2074	35
7	1137.352	5213	0.050	26	2074	2059	11
8	1137.383	5214	0.020	11	2059	2075	27
9	1137.372	5226	0.083	43	2075	2069	37
10	1136.965	4980	0.071	35	2069	1865	-169
11	1136.388	4499	0.061	27	1865	1609	-229
12	1136.436	4255	0.006	3	1609	1630	24
13	1136.458	4288	0.034	14	1630	1640	24
14	1136.428	4284	0.051	22	1640	1627	9
15	1136.378	4247	0.034	14	1627	1605	-8
16	1136.363	4217	0.020	8	1605	1598	1

STORAGE FACTORS AND EVAPORATION LOSSES
2014

CRESSDAY RESERVOIR

11AB097

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	963.869	5176	0.000	0	561	561	0
2	964.074	5474	0.000	0	561	672	111
3	964.056	5755	0.000	0	672	662	-10
4	964.021	5676	0.031	18	662	642	-2
5	963.996	5585	0.048	27	642	629	14
6	963.949	5477	0.079	43	629	603	17
7	963.870	5289	0.064	34	603	562	-7
8	963.927	5256	0.030	16	562	592	46
9	963.845	5222	0.101	53	592	548	9
10	963.772	4996	0.083	42	548	511	5
11	963.708	4700	0.072	34	511	482	5
12	963.799	4758	0.012	6	482	524	48
13	963.747	4845	0.044	21	524	499	-4
14	963.672	4557	0.058	26	499	465	-8
15	963.656	4350	0.040	17	465	458	10
16	963.646	4294	0.024	10	458	453	5

Stage-capacity table # 4 and stage-area table # 5 used in 2014 computations.

STORAGE FACTORS AND EVAPORATION LOSSES
2014

MITCHELL RESERVOIR

11AB099

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman Evap. Adjusted for Elevation (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	33.962	3648	0.000	0	456	454	-2
2	34.297	3931	0.000	0	454	590	136
3	34.683	5050	0.000	0	590	782	192
4	34.811	5868	0.027	16	782	858	92
5	34.816	6089	0.040	24	858	861	27
6	34.424	5464	0.065	35	861	645	-181
7	34.371	4758	0.053	25	645	622	2
8	34.354	4648	0.019	9	622	615	2
9	34.284	4512	0.085	38	615	585	8
10	34.211	4288	0.070	30	585	551	-4
11	34.140	4063	0.060	25	551	520	-6
12	34.149	3966	0.002	1	520	524	5
13	34.127	3948	0.036	14	524	515	5
14	34.079	3885	0.049	19	515	497	1
15	34.037	3808	0.034	13	497	481	-3
16	33.965	3710	0.020	7	481	455	-19

STORAGE FACTORS AND EVAPORATION LOSSES
2014

JAYDOT RESERVOIR

11AB098

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	915.920	0	0.000	0	0	0	0
2	915.920	0	0.000	0	0	0	0
3	915.920	0	0.000	0	0	0	0
4	915.920	0	0.037	0	0	0	0
5	915.920	0	0.048	0	0	0	0
6	915.920	0	0.082	0	0	0	0
7	915.920	0	0.055	0	0	0	0
8	915.920	0	0.038	0	0	0	0
9	915.920	0	0.100	0	0	0	0
10	915.920	0	0.083	0	0	0	0
11	915.920	0	0.071	0	0	0	0
12	915.920	0	0.012	0	0	0	0
13	915.920	0	0.041	0	0	0	0
14	915.920	0	0.059	0	0	0	0
15	915.920	0	0.039	0	0	0	0
16	915.920	0	0.023	0	0	0	0

In 2014, reservoir levels were estimated to be 915.920 m to reflect the near empty condition during the entire season.

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK
June 4, 2015 11:53

MIDDLE CREEK NEAR THE SASKATCHEWAN BOUNDARY
Station No.: 11AB009
Total units:
Cubic Metres Per Second
Cubic Decimetres

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	---	---	0.007	0.028	0.067	0.044	0.026	0.013	0.014	0.015	---	---	1
2	---	---	0.007	0.026	0.057	0.045	0.024	0.013	0.014	0.015	---	---	2
3	---	---	0.009	0.024	0.053	0.047	0.023	0.013	0.015	0.014	---	---	3
4	---	---	0.008	0.033	0.062	0.047	0.021	0.013	0.017	0.015	---	---	4
5	---	---	0.009	0.029	0.216	0.045	0.021	0.016	0.016	0.015	---	---	5
6	---	---	0.008	0.026	0.149	0.043	0.021	0.015	0.015	0.015	---	---	6
7	---	---	0.009	0.207	0.094	0.042	0.023	0.014	0.015	0.014	---	---	7
8	---	---	0.009	1.034	0.072	0.041	0.022	0.013	0.015	0.014	---	---	8
9	---	---	0.031	1.645	0.061	0.039	0.021	0.012	0.015	0.014	---	---	9
10	---	---	0.080	2.616	0.053	0.038	0.021	0.012	0.016	0.014	---	---	10
11	---	---	0.211	1.155	0.052	0.040	0.021	0.012	0.017	0.015	---	---	11
12	---	---	0.317	0.731	0.048	0.039	0.020	0.012	0.015	0.015	---	---	12
13	---	---	0.283	0.403	0.048	0.039	0.019	0.011	0.015	0.014	---	---	13
14	---	---	0.080	0.284	0.049	0.039	0.018	0.012	0.015	0.014	---	---	14
15	---	---	0.069	0.223	0.050	0.036	0.017	0.013	0.014	0.014	---	---	15
16	---	---	0.530	0.068	0.051	0.032	0.018	0.013	0.014	0.014	---	---	16
17	---	---	2.815	0.056	0.062	0.045	0.018	0.013	0.015	0.014	---	---	17
18	---	---	3.447	0.051	0.071	0.055	0.017	0.013	0.014	0.014	---	---	18
19	---	---	1.611	0.043	0.080	0.049	0.016	0.012	0.014	0.013	---	---	19
20	---	---	0.389	0.041	0.073	0.145	0.016	0.013	0.014	0.013	---	---	20
21	---	---	0.559	0.094	0.058	0.356	0.020	0.016	0.014	0.013	---	---	21
22	---	---	0.323	0.202	0.053	0.214	0.020	0.020	0.015	0.014	---	---	22
23	---	---	0.299	0.249	0.050	0.103	0.021	0.021	0.015	0.013	---	---	23
24	---	---	0.148	0.557	0.054	0.064	0.019	0.021	0.015	0.014	---	---	24
25	---	---	0.103	0.856	0.055	0.047	0.016	0.020	0.014	0.014	---	---	25
26	---	---	0.075	0.396	0.052	0.039	0.015	0.016	0.015	0.014	---	---	26
27	---	---	0.059	0.216	0.050	0.033	0.015	0.014	0.014	0.014	---	---	27
28	---	---	0.047	0.329	0.048	0.031	0.014	0.015	0.014	0.013	---	---	28
29	---	---	0.042	0.301	0.048	0.027	0.013	0.015	0.015	0.014 E	---	---	29
30	---	---	0.041	0.107	0.045	0.027	0.013	0.014	0.015	0.014 E	---	---	30
31	---	---	0.036	0.043	0.043	0.013	0.014	0.015	0.015 E	0.015 E	---	---	31
Mean	---	---	0.399	0.401	0.065	0.063	0.019	0.014	0.015	0.014	---	---	---
Total	---	---	1067.879	1039.248	175.058	163.178	50.08	38.229	31.283	37.517	---	---	---
Max (day)	---	---	4.560	3.295	0.242	0.419	0.031	0.025	0.019	0.017	---	---	---
Min (day)	---	---	18 05:00	10 07:40	5 12:25	20 23:10	21 15:25	22 22:00	31 23:20	22 13:25	---	---	---
A - Manual Gauge B - Ice Conditions E - Estimated D - Dry													

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK

MIDDLE CREEK RESERVOIR BEDFORD OUTLET
station No.: 11AB114
November 3, 2015 08:45

Day	Discharge Units: Total Units:											Cubic Metres Per Second Cubic Decimetres	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	---	---	0	0	0	0	0	0	0	0	0	---	1
2	---	---	0	0	0	0	0	0	0	0	0	---	2
3	---	---	0	0	0	0	0	0	0	0	0	---	3
4	---	---	0	0	0	0	0	0	0	0	0	---	4
5	---	---	0	0	0	0	0	0	0	0	0	---	5
6	---	---	0	0	0	0	0	0	0	0	0	---	6
7	---	---	0	0	0	0	0	0	0	0	0	---	7
8	---	---	0	0	0	0	0	0	0	0	0	---	8
9	---	---	0	0	0	0	0	0	0	0	0	---	9
10	---	---	0	0	0	0	0	0	0	0	0	---	10
11	---	---	0	0	0	0	0	0	0	0	0	---	11
12	---	---	0	0	0	0	0	0	0	0	0	---	12
13	---	---	0	0	0	0	0	0	0	0	0	---	13
14	---	---	0	0	0	0	0	0	0	0	0	---	14
15	---	---	0	0	0	0	0	0	0	0	0	---	15
16	---	---	0	0	0	0	0	0	0	0	0	---	16
17	---	---	0	0	0	0	0	0	0	0	0	---	17
18	---	---	0	0	0	0	0	0	0	0	0	---	18
19	---	---	0	0	0	0	0	0	0	0	0	---	19
20	---	---	0	0	0	0	0	0	0	0	0	---	20
21	---	---	0	0	0	0	0	0	0	0	0	---	21
22	---	---	0	0	0	0	0	0	0	0	0	---	22
23	---	---	0	0	0	0	0	0	0	0	0	---	23
24	---	---	0	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	0	---	29
30	---	---	0	0	0	0	0	0	0	0	0	---	30
31	---	---	0	0	0	0	0	0	0	0	0	---	31
Mean	---	---	0	0	0	0	0	0	0	0	0	---	---
Max (day)	---	---	0	0	0	0	0	0	0	0	0	---	---
Min (day)	---	---	1 01:20	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---

A - Manual Gauge B - Ice Conditions E - Estimated D - Dry

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES FOR CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK

MIDDLE CREEK RESERVOIR FLOOD SPILLWAY
November 3, 2015 08:48

Day	Station No.: 11AB115											Discharge Units: Cubic Metres Per Second Cubic Decimetres	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	1
2	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	2
3	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	3
4	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	4
5	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	5
6	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	6
7	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	7
8	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	8
9	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	9
10	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	10
11	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	11
12	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	12
13	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	13
14	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	14
15	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	15
16	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	16
17	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	17
18	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	18
19	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	19
20	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	20
21	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	21
22	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	22
23	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	23
24	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	24
25	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	25
26	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	26
27	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	27
28	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	28
29	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	29
30	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	30
31	---	---	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	0 A	---	31
Mean	---	---	0	0	0	0	0	0	0	0	0	---	---
Max	---	---	0	0	0	0	0	0	0	0	0	---	---
(day)	---	---	1 20:30	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---	---
Min	---	---	0	0	0	0	0	0	0	0	0	---	---
(day)	---	---	1 20:30	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---	---
			A - Manual Gauge	B - Ice Conditions	C - Estimated	D - Dry							

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES FOR CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK

June 4, 2015 13:00

MIDDLE CREEK BELOW MIDDLE CREEK RESERVOIR
Station No.: 11AB001

Day	Discharge Units:											Cubic Metres Per Second Cubic Decimetres	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	---	---	0 E	0	0	0.024	0	0	0	0	0	---	1
2	---	---	0 E	0	0	0.030	0	0	0	0	0	---	2
3	---	---	0 E	0	0	0.047	0	0	0	0	0	---	3
4	---	---	0 E	0	0	0.065	0	0	0	0	0	---	4
5	---	---	0 E	0	0	0.046	0	0	0	0	0	---	5
6	---	---	0 E	0	0	0.040	0	0	0	0	0	---	6
7	---	---	0 E	0	0	0.037	0	0	0	0	0	---	7
8	---	---	0 E	0	0	0.034	0	0	0	0	0	---	8
9	---	---	0 E	0	0	0.031	0	0	0	0	0	---	9
10	---	---	0.018 E	0	0	0.023	0	0	0	0	0	---	10
11	---	---	0.130	0	0	0.018	0	0	0	0	0	---	11
12	---	---	0.132	0	0	0.026	0	0	0	0	0	---	12
13	---	---	0.084	0	0	0.042	0	0	0	0	0	---	13
14	---	---	0.031	0	0	0.011	0	0	0	0	0	---	14
15	---	---	0.019	0	0	0.004	0	0	0	0	0	---	15
16	---	---	0.027	0	0	0.001	0	0	0	0	0	---	16
17	---	---	0.028	0	0	0.184	0.001	0	0	0	0	---	17
18	---	---	0.004	0	1.497	0.009	0	0	0	0	0	---	18
19	---	---	0.002	0	1.343	0.010	0	0	0	0	0	---	19
20	---	---	0	0	0.810	0.005	0	0	0	0	0	---	20
21	---	---	0	0	0.172	0.002	0	0	0	0	0	---	21
22	---	---	0	0	0.167	0	0	0	0	0	0	---	22
23	---	---	0	0	0.135	0	0	0	0	0	0	---	23
24	---	---	0	0	0.102	0	0	0	0	0	0	---	24
25	---	---	0	0	0.126	0	0	0	0	0	0	---	25
26	---	---	0	0	0.200	0	0	0	0	0	0	---	26
27	---	---	0	0	0.181	0	0	0	0	0	0	---	27
28	---	---	0	0	0.123	0	0	0	0	0	0	---	28
29	---	---	0	0	0.139	0	0	0	0	0	0	---	29
30	---	---	0	0	0.066	0	0	0	0	0	0	---	30
31	---	---	0	0	0.029	0	0	0	0	0	0	---	31
Mean	---	---	0.015	0	0.170	0.017	0	0	0	0	0	---	---
Total	---	---	41.048	0	455.765	43.608	0	0	0	0	0	---	---
Max (day)	---	---	0.253	0	1.552	0.077	0	0	0	0	0	---	---
Min (day)	---	---	0	12 21:04	1 00:00	18 03:19	4 01:34	1 00:00	1 00:00	1 00:00	1 00:00	0	0

A - Manual Gauge B - Ice Conditions E - Estimated D - Dry

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014

Regina, SK

June 4, 2015 13:02

MIDDLE CREEK ABOVE LODGE CREEK
Station No.: 11AB008

Day	Discharge Units: Cubic Metres Per Second								Total Units: Cubic Decametres				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	---	---	0 E	0.009	0.005	0.032	0.049	0	0.039	0.004	---	---	1
2	---	---	0 E	0.009	0.006	0.025	0.044	0	0.026	0.004	---	---	2
3	---	---	0 E	0.010	0.006	0.011	0.030	0	0.039	0.003	---	---	3
4	---	---	0 E	0.009	0.006	0.004	0.024	0	0.034	0.003	---	---	4
5	---	---	0 E	0.008	0.007	0.002	0.027	0	0.035	0.004	---	---	5
6	---	---	0 E	0.008	0.007	0.001	0.026	0	0.026	0.005	---	---	6
7	---	---	0.016 E	0.006	0.005	0.001	0.074	0	0.023	0.005	---	---	7
8	---	---	0.045 E	0.005	0.005	0	0.046	0	0.017	0.005	---	---	8
9	---	---	0.088 E	0.006	0.004	0	0.027	0	0.015	0.005	---	---	9
10	---	---	0.128 E	0.004	0.004	0.003	0.018	0	0.013	0.006	---	---	10
11	---	---	0.127	0.004	0.004	0.005	0.013	0	0.011	0.009	---	---	11
12	---	---	0.146	0.004	0.004	0.003	0.010	0	0.012	0.007	---	---	12
13	---	---	0.249	0.003	0.004	0.004	0.007	0	0.009	0.006	---	---	13
14	---	---	0.600	0.003	0.004	0.003	0.005	0	0.008	0.006	---	---	14
15	---	---	0.300	0.002	0.003	0.002	0.004	0	0.008	0.006	---	---	15
16	---	---	0.104	0.002	0.003	0.001	0.003	0	0.006	0.006	---	---	16
17	---	---	0.190	0.002	0.002	0.002	0.002	0	0.005	0.007	---	---	17
18	---	---	0.334	0.002	0.002	0.004	0.001	0	0.005	0.010	---	---	18
19	---	---	0.409	0.002	0.003	0.051	0.001	0	0.005	0.014	---	---	19
20	---	---	0.162	0.005	0.003	0.070	0	0	0.005	0.015	---	---	20
21	---	---	0.093	0.004	0.003	0.046	0	0	0.005	0.018	---	---	21
22	---	---	0.043	0.010	0.003	0.034	0	0	0.005	0.021	---	---	22
23	---	0 E	0.008	0.013	0.003	0.034	0	0.002	0.005	0.019	---	---	23
24	---	0 E	0.028	0.009	0.003	0.042	0	0.151	0.004	0.017	---	---	24
25	---	0 E	0.018	0.008	0.002	0.054	0	0.383	0.004	0.013	---	---	25
26	---	0 E	0.019	0.007	0.062	0.069	0	0.258	0.004	0.017	---	---	26
27	---	0 E	0.015	0.010	0.098	0.066	0	0.167	0.003	0.027	---	---	27
28	---	0 E	0.013	0.009	0.089	0.094	0	0.113	0.003	0.018	---	---	28
29	---	0 E	0.013	0.006	0.074	0.050	0	0.154	0.003	0.019 E	---	---	29
30	---	0 E	0.013	0.005	0.053	0.036	0	0.112	0.005	0.020 E	---	---	30
31	---	0 E	0.008	0.008	0.040	0	0.064	0	0.020 E	0.020 E	---	---	31
Mean	---	---	0.106	0.006	0.017	0.026	0.013	0.045	0.013	0.011	---	---	
Total	---	---	282.650	15.572	44.724	65.517	35.259	121.341	33.095	29.092	---	---	
Max	---	0	0.845	0.019	0.102	0.170	0.090	0.450	0.058	0.031	---	---	
(day)	23 04:30	13 16:40	23 01:25	27 13:25	28 01:55	7 02:40	25 12:05	3 09:50	27 02:40	0.002	---	---	
Min	---	0	0	0.001	0.001	0	0	0	0.002	0.002	---	---	
(day)	23 04:30	21 00:00	16 23:30	17 17:00	7 13:05	19 15:05	1 00:00	29 04:45	3 21:10				
A - Manual Gauge	B - Ice Conditions	E - Estimated	D - Dry										

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK
June 4, 2015 13:01

MIDDLE CREEK NEAR GOVERNMENT
Station No.: 11AB108

Day	Discharge Units: Cubic Metres Per Second											Discharge Units: Cubic Decametres		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	
1	---	---	0	0.021	0.099	0.109	0.026	0	0.058	0.018	---	---	1	
2	---	---	0	0.021	0.090	0.100	0.021	0	0.052	0.020	---	---	2	
3	---	---	0	0.025	0.090	0.090	0.018	0	0.046	0.018	---	---	3	
4	---	---	0	0.028	0.087	0.080	0.015	0	0.038	0.019	---	---	4	
5	---	---	0	0.031	0.085	0.081	0.013	0.009	0.034	0.019	---	---	5	
6	---	---	0	0.034	0.081	0.076	0.009	0.016	0.031	0.020	---	---	6	
7	---	---	0	0.035	0.076	0.075	0.011	0.005	0.027	0.019	---	---	7	
8	---	---	0	0.047	0.073	0.069	0.006	0.001	0.023	0.019	---	---	8	
9	---	---	0	0.049	0.068	0.066	0.004	0.001	0.020	0.018	---	---	9	
10	---	---	0.082	0.030	0.067	0.064	0.004	0.001	0.019	0.019	---	---	10	
11	---	---	0.240	0.025	0.068	0.056	0.003	0	0.021	0.021	---	---	11	
12	---	---	0.296	0.024	0.061	0.045	0.003	0	0.024	0.022	---	---	12	
13	---	---	0.336	0.019	0.055	0.045	0.002	0	0.025	0.023	---	---	13	
14	---	---	0.190	0.014	0.050	0.046	0.001	0	0.024	0.024	---	---	14	
15	---	---	0.172	0.015	0.047	0.047	0.001	0	0.022	0.026	---	---	15	
16	---	---	0.254	0.065	0.045	0.044	0.001	0	0.022	0.028	---	---	16	
17	---	---	0.169	0.152	0.041	0.060	0.001	0	0.021	0.027	---	---	17	
18	---	---	0.060	0.069	0.046	0.077	0	0	0.021	0.029	---	---	18	
19	---	---	0.059	0.026	0.045	0.094	0	0	0.021	0.029	---	---	19	
20	---	---	0.058	0.020	0.184	0.095	0	0	0.020	0.030	---	---	20	
21	---	---	0.031	0.067	1.049	0.083	0	0	0.021	0.030	---	---	21	
22	---	---	0.011	0.153	0.720	0.071	0	0.023	0.022	0.032	---	---	22	
23	---	---	0.021	0.117	0.364	0.063	0	0.098	0.021	0.034	---	---	23	
24	---	---	0.042	0.143	0.213	0.068	0	0.076	0.021	0.033	---	---	24	
25	---	---	0.025	0.083	0.158	0.065	0	0.115	0.020	0.032	---	---	25	
26	---	---	0.027	0.087	0.135	0.058	0	0.083	0.019	0.032	---	---	26	
27	---	---	0.024	0.098	0.122	0.051	0	0.068	0.018	0.032	---	---	27	
28	---	---	0.024	0.096	0.110	0.043	0	0.055	0.017	0.030	---	---	28	
29	---	---	0.072	0.156	0.098	0.037	0.001	0.048	0.016	0.031 E	---	---	29	
30	---	---	0.077	0.122	0.083	0.031	0.001	0.080	0.019	0.031 E	---	---	30	
31	---	---	0.026	0.082	0.082	0.001	0.072	0	0.031 E	---	---	31		
Mean	---	---	0.074	0.062	0.148	0.066	0.005	0.024	0.025	0.026	---	---	---	
Total	---	---	198.469	161.799	336.474	171.723	12.285	65.331	65.385	68.818	---	---	---	
Max (day)	---	---	0.560	0.194	1.115	0.114	0.028	0.137	0.065	0.035	---	---	---	
Min (day)	---	---	13 10:20	22 15:50	21 05:40	1 08:25	1 05:05	22 21:05	1 00:00	23 10:10	0.017	---	---	
			1 00:00	13 21:20	18 01:10	30 22:05	18 10:00	1 00:00	29 10:35	9 12:30				

A - Manual Gauge B - Ice Conditions E - Estimated D - Dry

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

ALTAWAN EVAPORATION STATION NO. 11EV089
Station Elevation: 925 m
2014

Date	Permanent Evaporation Pe mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Net Lake Evap Elev. Adj 0.789 Pe-TB ppt	Net Upper Reservoir Evaporation Elev Adj 0.853 Pe-TB ppt	Period Summations M	Date	Penman Evaporation Pe mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Net Lake Evap Elev. Adj 0.789 Pe-TB ppt	Net Upper Reservoir Evaporation Elev Adj 0.853 Pe-TB ppt	Period Summations M
March 1	no evap data	0	no evap data	no evap data	no evap data		April 1	no evap data	0	no evap data	no evap data	no evap data	
2	no evap data	0	no evap data	no evap data	no evap data		2	no evap data	0	no evap data	no evap data	no evap data	
3	no evap data	0	no evap data	no evap data	no evap data		3	no evap data	0	no evap data	no evap data	no evap data	
4	no evap data	0	no evap data	no evap data	no evap data		4	no evap data	0	no evap data	no evap data	no evap data	
5	no evap data	0	no evap data	no evap data	no evap data		5	no evap data	0	no evap data	no evap data	no evap data	
6	no evap data	0	no evap data	no evap data	no evap data		6	no evap data	0	no evap data	no evap data	no evap data	
7	no evap data	0	no evap data	no evap data	no evap data		7	no evap data	0	no evap data	no evap data	no evap data	
8	no evap data	0	no evap data	no evap data	no evap data		8	no evap data	0	no evap data	no evap data	no evap data	
9	no evap data	0	no evap data	no evap data	no evap data		9	no evap data	0	no evap data	no evap data	no evap data	
10	no evap data	0	no evap data	no evap data	no evap data		10	no evap data	0	no evap data	no evap data	no evap data	
11	no evap data	0	no evap data	no evap data	no evap data		11	no evap data	0	no evap data	no evap data	no evap data	
12	no evap data	0	no evap data	no evap data	no evap data		12	no evap data	0	no evap data	no evap data	no evap data	
13	no evap data	0	no evap data	no evap data	no evap data		13	no evap data	0	no evap data	no evap data	no evap data	
14	no evap data	0	no evap data	no evap data	no evap data		14	no evap data	0	no evap data	no evap data	no evap data	
15	no evap data	0	no evap data	no evap data	no evap data		15	no evap data	0	no evap data	no evap data	no evap data	
16	no evap data	0	no evap data	no evap data	no evap data		16	no evap data	0	no evap data	no evap data	no evap data	
17	no evap data	0	no evap data	no evap data	no evap data		17	no evap data	0	no evap data	no evap data	no evap data	
18	no evap data	0	no evap data	no evap data	no evap data		18	1.56	0	1.56	0	1.56	
19	no evap data	0	no evap data	no evap data	no evap data		19	2.31	0	2.31	0	2.31	
20	no evap data	0	no evap data	no evap data	no evap data		20	1.70	0	1.70	0	1.70	
21	no evap data	0	no evap data	no evap data	no evap data		21	3.12	0	3.12	0	3.12	
22	no evap data	0	no evap data	no evap data	no evap data		22	2.80	0	2.80	0	2.80	
23	no evap data	0	no evap data	no evap data	no evap data		23	4.33	0	4.33	0	4.33	
24	no evap data	0	no evap data	no evap data	no evap data		24	5.36	0	5.36	0	5.36	
25	no evap data	0	no evap data	no evap data	no evap data		25	3.81	0	3.81	0	3.81	
26	no evap data	0	no evap data	no evap data	no evap data		26	2.09	0	2.09	0	2.09	
27	no evap data	0	no evap data	no evap data	no evap data		27	4.04	0	4.04	0	4.04	
28	no evap data	0	no evap data	no evap data	no evap data		28	5.40	0	5.40	0	5.40	
29	no evap data	0	no evap data	no evap data	no evap data		29	4.77	0	4.77	0	4.77	
30	no evap data	0	no evap data	no evap data	no evap data		30	6.46	0	6.46	0	6.46	
31	no evap data	0	no evap data	no evap data	no evap data		Total	47.74	0	47.74	0	47.74	40.72

Notes:

Division Period Evaporation Summations:

* Upper Reservoirs (Michel, Greasewood, Massy, Bare)

** Mitchell Reservoir

*** Cressday Reservoir

Total shown for April is for a partial month.

Division Period Evaporation Summations:

*** Altawan Reservoir

**** Resor and Adams Reservoirs

..... Continued

ALTAWAN EVAPORATION STATION NO. 11EV089
 Station Elevation: 925 m
 2014

Date May	Penman Evaporation Pe mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Elev. Adj 0.789 Pe-TB ppt	Net Lake Evap Elev. Adj 0.853 Pe-TB ppt	Period Evaporation Summations M	Date June	Penman Evaporation Pe mm	Tipping Bucket ppt mm	Net Upper Reservoir Evaporation Elev. Adj 0.789 Pe-TB ppt		Net Reservoir Evaporation Elev. Adj 0.853 Pe-TB ppt		Period Evaporation Summations M	
									Net Reservoir Evaporation Elev. Adj 0.789 Pe-TB ppt	Penman Evaporation Pe mm	Net Reservoir Evaporation Elev. Adj 0.853 Pe-TB ppt	Penman Evaporation Elev. Adj 0.789 Pe-TB ppt	Net Reservoir Evaporation Elev. Adj 0.853 Pe-TB ppt	Period Evaporation Summations M
1	4.01	0	4.01	3.16	3.42	1	5.01	0	5.01	0	5.01	3.95	4.27	
2	1.56	2	-0.44	-0.77	-0.67	2	6.05	0	6.05	0	6.05	4.78	5.16	
3	2.31	5	-2.69	-3.18	-3.03 *****	3	3.89	9	-5.11	-5.93	-5.68	0.055 *****		
4	1.70	0	1.70	1.34	1.45	4	5.30	0	5.30	0	5.30	4.18	4.52	
5	3.12	0	3.12	2.46	2.66	5	4.25	0	4.25	0	4.25	3.36	3.63	
6	2.80	0	2.80	2.21	2.39	6	3.54	0	3.54	0	3.54	2.80	3.02	
7	4.33	0	4.33	3.41	3.69	7	4.64	1	3.64	1	3.64	2.66	2.96	
8	5.36	0	5.36	4.23	4.57	8	6.26	0	6.26	0	6.26	4.94	5.34	
9	3.81	0	3.81	3.01	3.25	9	5.38	5	0.38	-0.75	-0.75	-0.41		
10	2.09	2	0.09	-0.35	-0.22	10	4.79	0	4.79	0	4.79	3.78	4.08	
11	4.04	0	4.04	3.19	3.45	11	4.53	0	4.53	0	4.53	3.57	3.86	
12	5.40	0	5.40	4.26	4.61	12	7.40	0	7.40	0	7.40	5.84	6.31	
13	4.77	0	4.77	3.76	4.07 ****	13	2.26	4	-1.74	-2.22	-2.22	-0.27	0.055 ****	
14	6.46	0	6.46	5.10	5.51	14	2.63	1	1.63	1.08	1.08	-1.25		
15	4.01	0	4.01	3.16	3.42	15	5.89	0	5.89	0	5.89	4.65	5.03	
16	4.08	0	4.08	3.22	3.48	16	2.75	2	0.75	0.17	0.17	0.34		
17	6.29	0	6.29	4.96	5.37	17	1.06	26	-24.94	-25.16	-25.16	-25.09		
18	6.25	7	-0.75	-2.07	-1.67	18	2.91	3	-0.09	-0.70	-0.70	-0.52	0.008 ****	
19	4.20	1	3.20	2.31	2.58 0.044 *****	19	4.23	7	-2.77	-3.66	-3.66	-3.39		
20	3.45	3	0.45	-0.28	-0.06	20	7.93	0	7.93	0	7.93	6.76	6.76	
21	7.26	0	7.26	5.73	6.19	21	6.50	0	6.50	0	6.50	5.13	5.55	
22	7.09	0	7.09	5.59	6.05	22	8.36	0	8.36	0	8.36	6.59	7.13	
23	8.10	0	8.10	6.39	6.91	23	6.74	0	6.74	0	6.74	5.31	5.75	
24	5.50	0	5.50	4.34	4.69	24	8.00	0	8.00	0	8.00	6.31	6.82	
25	6.01	0	6.01	4.74	5.13	25	7.71	0	7.71	0	7.71	6.08	6.58	
26	6.81	3	3.81	2.38	2.81	26	2.19	2	0.19	-0.27	-0.27	-0.13	0.020 *	
27	7.53	0	7.53	5.94	6.42 0.066 *	27	5.62	0	5.62	0	5.62	4.43	4.79	
28	6.84	2	4.84	3.40	3.84 0.065 ** 0.079 ***	28	6.87	0	6.87	0	6.87	5.42	5.86	
29	7.71	0	7.71	6.08	6.57 0.082 ***	29	6.68	0	6.68	0	6.68	5.27	5.70	
30	7.54	0	7.54	5.95	6.43	30	6.04	0	6.04	0	6.04	4.77	5.15	
31	2.90	0	2.90	2.29	2.48	31								
Total	153.32	25	128.32	95.97	105.78	Total	155.40	60	95.40	62.61	95.40	62.61	72.56	

Notes:

Division Period Evaporation Summations:

* Upper Reservoirs (Michel, Geasewood, Massy, Bare)

** Michel Reservoir

*** Cressday Reservoir

**** Altawan Reservoir

***** Reesor and Adams Reservoirs

* * * * Continued

ALTAWAN EVAPORATION STATION NO. 11EV098
Station Elevation: 925 m
2014

Date	Permanent Evaporation P _e mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Net Upper Reservoir Evaporation Elev. Adj 0.789 Pe-TB ppt	Net Upper Reservoir Evaporation Elev. Adj 0.853 Pe-TB ppt	Period Evaporations Summations M	Date	Permanent Evaporation P _e mm	Net Reservoir Evaporation Pe - TB ppt	Net Reservoir Evaporation Elev. Adj 0.789 Pe-TB ppt	Period Evaporations Summations M
July	6.85	0	6.85	5.40	5.44		August	5.50	0	5.50	4.34
1	6.85	0	6.85	5.40	5.44		1	5.50	0	5.50	4.69
2	8.79	0	8.79	6.93	7.49		2	3.26	0	3.26	2.57
3	7.06	0	7.06	5.57	6.03	0.070 *****	3	2.86	0	2.86	2.26
4	6.66	0	6.66	5.25	5.66		4	5.64	0	5.64	4.45
5	7.35	0	7.35	5.80	6.27	Upper Reservoirs *	5	4.96	7	-2.04	-3.09
6	7.42	0	7.42	5.85	6.33	Mitchell ** Cresday ***	6	5.83	0	5.83	4.60
7	7.43	7	0.43	-1.13	-0.66	Altawan **** Reesor / Adams *****	7	5.35	0	5.35	4.22
8	7.29	0	7.29	5.75	6.21		8	4.33	0	4.33	3.41
9	7.06	0	7.06	5.57	6.03		9	6.06	0	6.06	5.17
10	7.47	0	7.47	5.90	6.37		10	5.27	0	5.27	4.16
11	8.12	1	7.12	5.41	5.93	0.083 *	11	5.77	0	5.77	4.93
12	7.53	0	7.53	5.94	6.43	0.085 ** 0.101 ***	12	5.85	0	5.85	4.62
13	6.67	0	6.67	5.26	5.69	0.100 ***	13	5.24	0	5.24	4.13
14	6.99	0	6.99	5.52	5.96		14	5.36	0	5.36	4.23
15	4.96	0	4.96	3.92	4.23		15	1.92	10	-8.08	-8.36
16	5.62	0	5.62	4.43	4.79		16	5.20	2	3.20	2.43
17	5.44	1	4.44	3.29	3.64		17	3.52	0	3.52	2.77
18	5.20	0	5.20	4.11	4.44		18	5.66	0	5.66	4.47
19	5.98	0	5.98	4.72	5.10	0.076 *****	19	6.70	0	6.70	5.72
20	4.85	0	4.85	3.83	4.14		20	3.80	5	-1.20	-2.00
21	4.68	7	-2.32	-3.31	-3.01		21	0.90	3	-2.10	-2.23
22	6.12	0	6.12	4.83	5.22		22	0.95	23	-22.05	-22.25
23	4.55	0	4.55	3.59	3.88		23	0.81	0	0.81	0.64
24	5.41	1	4.41	3.27	3.61		24	1.45	6	-4.55	-4.77
25	6.11	0	6.11	4.82	5.21		25	4.77	0	4.77	4.07
26	6.44	0	6.44	5.08	5.49		26	6.00	0	6.00	4.73
27	6.77	0	6.77	5.34	5.77	0.071 *	27	6.49	0	6.49	5.12
28	6.62	0	6.62	5.22	5.64	0.070 ** 0.083 ***	28	5.79	4	1.79	0.57
29	6.15	0	6.15	4.85	5.25	0.083 ***	29	5.42	0	5.42	4.27
30	5.85	0	5.85	4.61	4.99		30	4.21	0	4.21	3.59
31	6.34	0	6.34	5.00	5.41		31	4.76	0	4.76	3.76
Total	199.77	17	182.77	140.62	153.40		Total	139.64	60	79.64	59.12

Notes:

Division Period Evaporation Summations:

* Upper Reservoirs (Mitchel, Greasewood, Massy, Bare)

** Mitchell Reservoir

*** Altawan Reservoir

**** Resor and Adams Reservoirs

**** Cresday Reservoir

..... Continued

ALTAWAN EVAPORATION STATION NO. 11EV089
Station Elevation: 925 m
2014

Date	Penman Evaporation Pe mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe-TB ppt	Net Reservoir Lake Evap Elev. Adj 0.789 Pe-TB.ppt	Net Upper Reservoir Evaporation Elev. Adj 0.853 Pe-TB.ppt	Period Evaporation Summations M	Date	Penman Evaporation Pe mm	Net Tipping Bucket ppt mm	Net Reservoir Evaporation Elev. Adj 0.789 Pe-TB.ppt	Net Reservoir Lake Evap Elev. Adj 0.853 Pe-TB.ppt	Period Evaporation Summations M
September							October					
1	5.34	0	5.34	4.21	4.55		1	3.49	0	3.49	0	2.76
2	5.05	0	5.05	3.98	4.30		2	1.34	0	1.34	0	1.14
3	1.24	7	-5.76	-6.02	-5.94	-0.003 ****	3	2.91	0	2.91	0	2.48 ***
4	4.79	0	4.79	3.78	4.08		4	3.48	0	3.48	0	2.97
5	5.24	0	5.24	4.14	4.47	Upper Reservoirs *	5	3.10	0	3.10	0	2.64
6	5.37	0	5.37	4.23	4.58	Mitchell ** Cressday ***	6	2.90	0	2.90	0	2.47
7	5.62	0	5.62	4.43	4.79	Altawan ***	7	3.05	0	3.05	0	2.60
8	2.96	0	2.96	2.34	2.53	Resor / Adams ****	8	2.41	0	2.41	0	2.06
9	1.18	1	0.18	-0.07	0.00		9	2.62	0	2.62	0	2.23
10	1.00	6	-5.00	-5.21	-5.14		10	2.66	0	2.66	2.10	2.27
11	2.55	0	2.55	2.01	2.18	0.034 *	11	2.43	0	2.43	0	2.07
12	3.44	0	3.44	2.71	2.94	0.036 ** 0.044 ***	12	1.51	0	1.51	0	1.29
13	1.86	0	1.86	1.47	1.59	0.041 ***	13	2.67	0	2.67	0	2.28
14	3.96	0	3.96	3.12	3.38		14	2.18	0	2.18	0	1.86
15	4.21	0	4.21	3.32	3.59		15	2.02	2	2.02	-0.41	-0.28
16	4.16	0	4.16	3.29	3.55		16	1.93	1	1.93	0.52	0.64
17	4.58	0	4.58	3.62	3.91		17	1.75	0	1.75	0	1.49
18	2.09	0	2.09	1.65	1.78	0.036 *****	18	2.00	0	2.00	0	1.71
19	4.86	0	4.86	3.83	4.14		19	2.40	0	2.40	0	2.05
20	4.18	0	4.18	3.30	3.57		20	2.45	0	2.45	0	2.09
21	4.30	0	4.30	3.39	3.67		21	1.14	1	1.14	-0.10	-0.03
22	4.26	0	4.26	3.36	3.63		22	2.35	1	1.35	0.85	1.00
23	4.08	0	4.08	3.22	3.48		23	0.93	0	0.93	0.73	0.79
24	4.41	0	4.41	3.48	3.76		24	1.83	0	1.83	1.44	1.56
25	4.89	0	4.89	3.86	4.17		25	1.51	0	1.51	1.19	1.28 ****
26	4.51	0	4.51	3.56	3.85	0.051 *	26	1.75	0	1.75	1.38	1.50
27	1.64	0	1.64	1.29	1.40	0.049 ** 0.058 ***	27	0.66	0	0.66	0.52	0.57
28	3.05	0	3.05	2.41	2.60	0.059 ***	28	1.45	0	1.45	1.14	1.23
29	2.22	0	2.22	1.75	1.89		29	1.58	0	1.58	1.25	1.36
30	2.65	0	2.65	2.09	2.26		30	0.59	0	0.59	0.47	0.50
31							31	0.95	0	0.95	0.75	0.81
Total	109.67	14	95.67	72.53	79.55		Total	64.00	5	59.00	45.50	49.60

Notes:

Division Period Evaporation Summations:

- * Upper Reservoirs (Michel, Greasewood, Massy, Bare)
- ** Mitchell Reservoir
- *** Altawian Reservoir
- **** Resor and Adams Reservoirs
- *** Cressday Reservoir

STORAGE FACTORS AND EVAPORATION LOSSES
2014

ALTAWAN RESERVOIR

11AB089

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	899.232	16715	0.000	0	5549	5782	233
2	899.942	17359	0.000	0	5782	7016	1234
3	900.043	17959	0.000	0	7016	7197	181
4	899.974	17981	0.037	66	7197	7072	-59
5	899.882	17862	0.048	85	7072	6908	-79
6	899.196	17282	0.082	141	6908	5722	-1045
7	898.828	16434	0.055	90	5722	5118	-514
8	899.071	16304	0.038	63	5118	5515	460
9	898.999	16480	0.100	165	5515	5395	45
10	898.726	16114	0.083	134	5395	4956	-305
11	898.660	15745	0.071	112	4956	4851	7
12	898.902	15930	0.012	19	4851	5237	405
13	898.865	16162	0.041	66	5237	5178	7
14	898.828	16077	0.059	95	5178	5118	35
15	898.783	15983	0.039	63	5118	5046	-9
16	898.748	15898	0.023	36	5046	4991	-19

WATER SURVEY CANADA
 Daily Mean Discharge Report for 2014
 Regina, SK
 June 4, 2015 13:04

	SPANGLER DITCH NEAR GOVENLOCK												
	Station No.: 11AB060												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	---	---	0	0	0	1.105	0	0	0	0	0	0	1
2	---	---	0	0	0	1.090	0	0	0	0	0	0	2
3	---	---	0	0	0	0.956	0	0	0	0	0	0	3
4	---	---	0	0	0	0.924	0	0	0	0	0	0	4
5	---	---	0	0	0	0.822	0	0	0	0	0	0	5
6	---	---	0	0	0	0.385	0	0	0	0	0	0	6
7	---	---	0	0	0	0.006	0	0	0	0	0	0	7
8	---	---	0	0	0	0.001	0	0	0	0	0	0	8
9	---	---	0	0	0	0	0	0	0	0	0	0	9
10	---	---	0	0	0	0	0	0	0	0	0	0	10
11	---	---	0	0	0.033	0	0	0	0	0	0	0	11
12	---	---	0	0	0.651	0	0	0	0	0	0	0	12
13	---	---	0	0	0	0.724	0	0	0	0	0	0	13
14	---	---	0	0	0	0.742	0	0	0	0	0	0	14
15	---	---	0	0	0	0	0.766	0	0	0	0	0	15
16	---	---	0	0	0	0	0.811	0	0	0	0	0	16
17	---	---	0	0	0	0.894	0	0	0	0	0	0	17
18	---	---	0	0	0	0.917	0	0	0	0	0	0	18
19	---	---	0	0	0	0.927	0	0	0	0	0	0	19
20	---	---	0	0	0	0	0.930	0	0	0	0	0	20
21	---	---	0	0	0	0	0	0	0	0	0	0	21
22	---	---	0	0	0	0.986	0	0	0	0	0	0	22
23	---	---	0	0	0	1.022	0	0	0	0	0	0	23
24	---	---	0	0	0	1.016	0	0	0	0	0	0	24
25	---	---	0	0	0	1.026	0	0	0	0	0	0	25
26	---	---	0	0	1.032	0	0	0	0	0	0	0	26
27	---	---	0	0	1.042	0	0	0	0	0	0	0	27
28	---	---	0	0	1.056	0	0	0	0	0	0	0	28
29	---	---	0	0	1.061	0	0	0	0	0	0	0	29
30	---	---	0	0	1.079	0	0	0	0	0	0	0	30
31	---	---	0	0	1.092	0	0	0	0	0	0	0	31
Mean	---	---	0	0	0.574	0.176	0	0	0	0	0	0	---
Total	---	---	0	0	1538.719	456.887	0	0	0	0	0	0	---
Max	(day)	---	0	0	1.297	1.130	0	0	0	0	0	0	---
Min	(day)	---	1 00:00	1 00:00	22 23:15	2 15:45	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---
		---	0	0	0	0	0	0	0	0	0	0	---
		---	1 00:00	1 00:00	1 00:00	8 13:50	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---

A - Manual Gauge B - Ice Conditions E - Estimated D - Dry

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA

Daily Mean Discharge Report for 2014
Regina, SK

June 4, 2015 13:05

SQUAW COULEE NEAR WILLOW CREEK
Station No.: 11AB103

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Discharge Units:		Cubic Metres Per Second		
														Total Units:	Cubic Decimetres	Total Units:	Cubic Metres Per Second	
1	---	---	0	E	0	0	0.002	0	0	0.006	0	0	0	---	---	---	1	
2	---	---	0	E	0	0	0.050	0	0	0.003	0	0	0	---	---	---	2	
3	---	---	0	E	0	0	0.073	0	0	0.002	0	0	0	---	---	---	3	
4	---	---	0	E	0	0	0.090	0	0	0	0	0	0	---	---	---	4	
5	---	---	0	E	0	0	0.084	0	0	0	0	0	0	---	---	---	5	
6	---	---	0	E	0	0	0.094	0	0	0	0	0	0	---	---	---	6	
7	---	---	0	E	0	0	0.082	0	0	0	0	0	0	---	---	---	7	
8	---	---	0	E	0	0	0.053	0	0	0	0	0	0	---	---	---	8	
9	---	---	0	E	0	0	0.032	0	0	0	0	0	0	---	---	---	9	
10	---	---	0	E	0	0	0.013	0	0	0	0	0	0	---	---	---	10	
11	---	---	0	E	0	0	0.007	0	0	0	0	0	0	---	---	---	11	
12	---	---	0	E	0	0	0.004	0	0	0	0	0	0	---	---	---	12	
13	---	---	0	E	0	0	0.002	0	0	0	0	0	0	---	---	---	13	
14	---	---	0	E	0	0	0.001	0	0	0	0	0	0	---	---	---	14	
15	---	---	0	E	0	0	0	0	0	0	0	0	0	---	---	---	15	
16	---	---	0	E	0	0	0	0	0	0	0	0	0	---	---	---	16	
17	---	---	0	E	0	0	0.001	0	0	0	0	0	0	---	---	---	17	
18	---	---	0	E	0	0	0.001	0	0	0	0	0	0	---	---	---	18	
19	---	---	0	E	0	0	0.001	0	0	0	0	0	0	---	---	---	19	
20	---	---	0	E	0	0	0	0	0	0	0	0	0	---	---	---	20	
21	---	---	0	E	0	0	0	0	0	0	0	0	0	---	---	---	21	
22	---	---	0	E	0	0	0	0	0	0	0	0	0	---	---	---	22	
23	---	---	0	E	0	0	0	0	0	0	0	0	0	---	---	---	23	
24	---	---	0	E	0	0	0	0	0	0	0	0	0	---	---	---	24	
25	---	---	0	E	0	0	0	0	0	0.674	0	0	0	---	---	---	25	
26	---	---	0	E	0	0	0	0	0	0.535	0	0	0	---	---	---	26	
27	---	---	0	E	0	0	0	0	0	0.173	0	0	0	---	---	---	27	
28	---	---	0	E	0	0	0	0	0	0.066	0	0	0	---	---	---	28	
29	---	---	0	E	0	0	0	0	0	0.030	0	0	0	---	---	---	29	
30	---	---	0	E	0	0	0	0	0	0.016	0	0	0	---	---	---	30	
31	---	---	0	E	0	0	0	0	0	0.009	0	0	0	---	---	---	31	
Mean	---	---	0	E	0	0	0.020	0	0	0.048	0	0	0	---	---	---	---	
Total	---	---	0	E	0	0	52.766	0	129.871	0.928	0	0	0	---	---	---	---	
Max (day)	---	---	0	E	0	0	0.098	0	0.893	0.007	0	0	0	---	---	---	---	
Min (day)	---	---	1 00:00	1 00:00	1 00:00	4 16:15	1 00:00	25 19:55	1 00:00	1 00:00	1 00:00	0	0	0	---	---	---	---
A - Manual Gauge	B - Ice Conditions	C - Estimated	D - Dry															

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

LOGE CREEK BASIN - SASKATCHEWAN
SURFACE WATER USE (MINOR DIVERSIONS) FOR 2014
(VOLUME IN CUBIC DECAMETERS)

Projects associated with the Middle Creek Reservoir Area														
File Number	March		April		May		June		July		August		Sept	
	1-15	16-31	1-15	16-30	1- 15	16- 31	1-15	15-30	1-15	16-31	1-15	16-31	1-15	Total
205					65.2									65
8250						20.6								21
11727														0
11746														0
11768		8.2												8
15028					27.2	10.2								37
Projects Associated with the Altawan Reservoir Area														
File Number	March		April		May		June		July		August		Sept	
	1-15	16-31	1-15	16-30	1-15	16- 31	1-15	15-30	1-15	16-31	1-15	16-31	1-15	Total
410														0
787														0
788														0
831			90.7	13.0										104
832														0
1582														0
1583														0
4446		6.6												7
8299														0
10136														0
10600			12.8	16.0										29
10663														0
10789														0
10877														0
12478			2.2	2.7										5
12479			1.6	2.1										4
12480			1.1	1.4										3
12481			2.0	2.5										5
12482				45.3	6.5									52
Total Saskatchewan Middle	0	8	0	0	92	31	0	131						
Total Saskatchewan Altawan	0	0	26	161	20	0	0	0	0	0	0	0	0	207
Total Minor Diversion Saskatchewan	0	8	26	161	112	31	0	338						

Continued ...

LODGE CREEK BASIN - ALBERTA
SURFACE WATER USE (MINOR DIVERSIONS) FOR 2014
(VOLUME IN CUBIC DECAMETERS)

Projects Associated with the Upper Lodge Creek Basin															
File Number	March		April		May		June		July		August		Sept		
	1-15	16-31	1-15	16-30	1-15	16-31	1-15	15-30	1-15	16-31	1-15	16-31	1-15	Total	
370															0
397									138.2						138
412			18.5					18.5							37
415															0
2935															0
3787															0
8097								80.2							80
9654															0
12719									37						37
13803															0
14535			35.8					22.2							58
14562															0
15617								150.5							151
16878				3.7											4
Projects Associated with the Altawan Reservoir Area															
File Number	March		April		May		June		July		August		Sept		
	1-15	16-31	1-15	16-30	1-15	16-31	1-15	15-30	1-15	16-31	1-15	16-31	1-15	Total	
2130															0
16378															0
Projects Associated with the Middle Creek Reservoir Area															
File Number	March		April		May		June		July		August		Sept		
	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-31	1-15	Total	
20452M															0
Projects Associated with the Mitchell Reservoir Area															
File Number	March		April		May		June		July		August		Sept		
	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-31	1-15	Total	
303M															0
365M															0
920M															0
1830M															0
Upper Lodge Total	0	0	54	4	0	0	0	447	0	0	0	0	0		505
Mitchell Total (AB)	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Altawan Total (AB & SK)	0	0	26	161	20	0	0	0	0	0	0	0	0		207
Middle Total (AB & SK)	0	8	0	0	92	31	0	0	0	0	0	0	0		131
Total Alberta	0	0	54	4	0	0	0	447	0	0	0	0	0		505
Total Saskatchewan	0	8	26	161	112	31	0	0	0	0	0	0	0		338
Total Lodge Creek Basin	0	8	81	164	112	31	0	447	0	0	0	0	0		842

Water Rights Data supplied by Saskatchewan Water Security Agency and Alberta Environment and Sustainable Resource Development.

WATER SURVEY CANADA

Daily Mean Discharge Report for 2014
Regina, SKBATTLE CREEK AT INTERNATIONAL BOUNDARY
Station No.: 11AB027

June 4, 2015 15:16

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Units:	
1	---	---	0.143 B	0.212 B	0.458	1.552	0.327	0.233	0.353	0.293	---	---	1	
2	---	---	0.145 B	0.292 B	0.592	0.923	0.580	0.223	0.295	0.291	---	---	2	
3	---	---	0.146 B	0.538 B	1.904	0.835	0.551	0.214	0.279	0.281	---	---	3	
4	---	---	0.147 B	0.475 B	1.363	0.750	0.492	0.212	0.400	0.300	---	---	4	
5	---	---	0.151 B	0.440 B	0.751	0.673	0.443	0.212	0.359	0.299	---	---	5	
6	---	---	0.160 B	0.612 B	0.543	0.641	0.439	0.244	0.328	0.294	---	---	6	
7	---	---	0.176 B	0.893 B	0.491	0.604	0.325	0.208	0.321	0.492	---	---	7	
8	---	---	0.207 B	0.725 B	0.733	0.738	0.276	0.204	0.309	0.562	---	---	8	
9	---	---	0.241 B	0.929 B	0.631	0.713	0.198	0.274	0.280	0.558	---	---	9	
10	---	---	0.365 B	0.838 B	0.577	0.670	0.173	0.269	0.537	0.222	---	---	10	
11	---	---	1.525 B	1.623 B	0.490	0.635	0.174	0.258	0.595	0.705	---	---	11	
12	---	---	2.872 B	1.477	0.515	0.548	0.166	0.271	0.503	0.717	---	---	12	
13	---	---	2.490 B	1.839	0.468	0.488	0.133	0.306	0.449	0.740	---	---	13	
14	---	---	1.568 B	0.579	1.277	0.425	0.099	0.274	0.402	0.752	---	---	14	
15	---	---	1.473 B	0.510	0.754	0.378	0.082	0.247	0.380	0.772	---	---	15	
16	---	---	0.874 B	0.932	0.565	0.513	0.070	0.270	0.390	0.783	---	---	16	
17	---	---	0.842 B	0.709	0.669	0.604	0.060	0.231	0.411	0.775	---	---	17	
18	---	---	0.485 B	0.917	0.991	0.663	0.233	0.232	0.425	0.767	---	---	18	
19	---	---	0.536 B	0.889	1.115	0.749	0.260	0.182	0.435	0.790	---	---	19	
20	---	---	0.481 B	0.792	1.428	0.922	0.248	0.231	0.425	0.678	---	---	20	
21	---	---	0.255 B	0.610	1.538	1.006	0.257	0.225	0.390	0.618	---	---	21	
22	---	---	0.242 B	0.542	1.948	0.944	0.265	0.381	0.351	0.604	---	---	22	
23	---	---	0.383 B	0.663	1.686	0.666	0.238	0.627	0.317	0.599	---	---	23	
24	---	---	0.381 B	0.648	1.783	0.417	0.236	1.008	0.283	0.998	---	---	24	
25	---	---	0.258 B	0.575	2.521	0.338	0.256	2.050	0.257	0.608	---	---	25	
26	---	---	0.171 B	0.637	1.498	0.289	0.362	1.716	0.227	0.585	---	---	26	
27	---	---	0.131 B	0.133 B	0.871	0.887	0.282	0.464	1.005	0.195	0.572	---	---	27
28	---	---	0.138 B	0.149 B	1.310	0.825	0.270	0.452	0.789	0.196	0.568	---	---	28
29	---	---	0.166 B	1.070	1.751	0.239	0.386	1.766	0.299	0.571	---	---	29	
30	---	---	0.149 B	0.782	1.909	0.224	0.309	0.632	0.296	0.577	---	---	30	
31	---	---	0.151 B		2.061		0.268	0.392	0.564		---	31		
Mean	---	---	0.563	0.797	1.120	0.623	0.285	0.497	0.356	0.579	---	---	---	
Total	---	---	1509.084	2066.625	2999.394	1615.612	762.182	1330.084	923.204	1549.655	---	---	---	
Max	---	0.141	4.157	3.678	2.561	1.938	0.591	2.581	0.744	0.816	---	---	---	
(day)	28 21:54	12 18:04	13 00:14	25 15:54	1 00:00	1 21:29	29 06:34	10 12:14	19 04:39	19 04:39	---	---	---	
Min	---	0.128	0.117	0.168	0.290	0.209	0.053	0.150	0.173	0.273	---	---	---	
(day)	27 13:09	28 05:49	1 00:09	2 14:09	29 22:44	17 23:44	19 13:14	28 13:49	3 06:14	3 06:14	---	---	---	

A - Manual Gauge B - Ice Conditions E - Estimated D - Dry

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

STORAGE FACTORS AND EVAPORATION LOSSES
2014

REESOR RESERVOIR

11AB090

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman Evap. Adjusted for Elevation (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	1226.443	5162	0.000	0	1600	1641	41
2	1226.478	5192	0.000	0	1641	1659	18
3	1226.466	5198	0.001	1	1659	1653	-5
4	1226.482	5199	0.036	19	1653	1661	27
5	1226.461	5198	0.044	23	1661	1650	12
6	1226.460	5192	0.055	29	1650	1650	29
7	1226.513	5206	0.008	4	1650	1677	31
8	1226.483	5212	0.057	30	1677	1661	14
9	1226.481	5203	0.057	30	1661	1660	29
10	1226.559	5224	0.056	29	1660	1702	71
11	1226.534	5237	0.046	24	1702	1688	10
12	1226.505	5224	-0.003	-2	1688	1673	-17
13	1226.453	5202	0.035	18	1673	1646	-9
14	1226.424	5180	0.042	22	1646	1631	7
15	1226.391	5164	0.028	14	1631	1614	-3
16	1226.379	5152	0.006	3	1614	1609	-2

WATER SURVEY CANADA Daily Mean Discharge Report for 2014							GAFF DITCH NEAR MERRYFLAT				Discharge Units: Cubic Metres Per Second		
							Station No.: 11AB102				Total Units: Cubic Decimetres		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	---	Day
1	---	---	0 E	0.222 E	0.461 E	0.027 E	0.005	0.005	0.006	0.005	0.005	---	1
2	---	---	0 E	0.222 E	0.461 E	0.024 E	0.005	0.005	0.006	0.005	0.005	---	2
3	---	---	0 E	0.222 E	0.461 E	0.021 E	0.004	0.006	0.005	0.005	0.005	---	3
4	---	---	0 E	0.222 E	0.461 E	0.018 E	0.004	0.006	0.005	0.005	0.005	---	4
5	---	---	0 E	0.222 E	0.461 E	0.016 E	0.004	0.007	0.006	0.005	0.005	---	5
6	---	---	0 E	0.216 E	0.523 E	0.014 E	0.003	0.007	0.005	0.005	0.005	---	6
7	---	---	0 E	0.216 E	0.532 E	0.013 E	0.003	0.008	0.004	0.005	0.005	---	7
8	---	---	0 E	0.216 E	0.535 E	0.012 E	0.003	0.008	0.004	0.005	0.005	---	8
9	---	---	0 E	0.216 E	0.534 E	0.012 E	0.003	0.007	0.004	0.005	0.005	---	9
10	---	---	0 E	0.216 E	0.518 E	0.011 E	0.004	0.007	0.004	0.005	0.005	---	10
11	---	---	0 E	0.216 E	0.508 E	0.011	0.003	0.007	0.004	0.006	0.006	---	11
12	---	---	0 E	0.216 E	0.486 E	0.010	0.004	0.005	0.004	0.005	0.005	---	12
13	---	---	0 E	0.216 E	0.026 E	0.009	0.004	0.005	0.004	0.004	0.004	---	13
14	---	---	0 E	0.216 E	0.026 E	0.009	0.004	0.005	0.004	0.004	0.004	---	14
15	---	---	0 E	0.216 E	0.025 A	0.009	0.004	0.005	0.004	0.004	0.004	---	15
16	---	---	0 E	0.216 E	0.022 E	0.010	0.004	0.005	0.004	0.004	0.004	---	16
17	---	---	0 E	0.216 E	0.020 E	0.009	0.004	0.006	0.004	0.004	0.004	---	17
18	---	---	0 E	0.216 E	0.023 E	0.012	0.004	0.006	0.004	0.004	0.004	---	18
19	---	---	0 E	0.216 E	0.028 E	0.012	0.004	0.006	0.004	0.004	0.004	---	19
20	---	---	0 E	0.216 E	0.033	0.012	0.004	0.005	0.004	0.004	0.004	---	20
21	---	---	0 E	0.461 E	0.033	0.012	0.004	0.004	0.004	0.004	0.004	---	21
22	---	---	0 E	0.461 E	0.032	0.011	0.004	0.004	0.004	0.003	0.003	---	22
23	---	---	0 E	0.461 E	0.030	0.010	0.004	0.005	0.004	0.003	0.003	---	23
24	---	---	0 E	0.461 E	0.027 E	0.009	0.004	0.005	0.004	0.003	0.003	---	24
25	---	---	0 E	0.461 E	0.024 E	0.007	0.004	0.005	0.004	0.003	0.003	---	25
26	---	---	0 E	0.461 E	0.021 E	0.009	0.004	0.006	0.004	0.003	0.003	---	26
27	---	---	0 E	0.461 E	0.020 E	0.008	0.005	0.006	0.004	0.003	0.003	---	27
28	---	---	0 E	0.461 E	0.019 E	0.007	0.005	0.006	0.005	0.003	0.003	---	28
29	---	---	0 E	0.461 E	0.020 E	0.006	0.005	0.006	0.005	0.003	0.003	---	29
30	---	---	0 E	0.461 E	0.028	0.004	0.005	0.006	0.005	0.003	0.003	---	30
31	---	---	0.013 E	0.029	0.005	0.005	0.005	0.005	0.005	0.003 E	0.003 E	---	31
Mean	---	---	0	0.299	0.207	0.012	0.004	0.006	0.004	0.004	0.004	---	---
Total	---	---	1.166	774.179	555.399	30.811	10.783	15.696	11.514	10.743	---	---	---
Max	---	---	0.210	0.461	0.535	0.028	0.009	0.008	0.006	0.006	0.038	---	---
(day)	---	---	31 23:55	21 00:00	8 00:00	1 00:00	21 14:55	6 18:25	1 02:45	11 11:15	11 11:15	---	---
Min	---	---	0	0.216	0.019	0.004	0.003	0.004	0.004	0.003	0.003	---	---
(day)	---	---	1 00:00	1 00:00	28 02:40	29 15:55	5 15:50	21 02:50	6 06:15	12 05:20	12 05:20	---	---

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
 Daily Mean Discharge Report for 2014
 Regina, SK
 June 4, 2015 14:23

CYPRESS LAKE WEST INFLOW CANAL
 Station No.: 11AB078

Day	Discharge Units: Cubic Metres Per Second											Day
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
1	---	---	0	0.002	0.607	0.205	0.521	0	0.366	0.132	---	1
2	---	---	0	0.002	0.862	0.206	0.839	0	0.359	0.099	---	2
3	---	---	0	0.002	0.788	0.209	1.025	0	0.365	0.050	---	3
4	---	---	0	0.002	0.800	0.217	0.518	0	0.429	0.040	---	4
5	---	---	0	0.002	0.796	0.218	0.480	0	0.522	0.011	---	5
6	---	---	0	0.002	0.834	0.219	0.458	0	0.446	0.002	---	6
7	---	---	0	0.002	0.879	0.216	0.457	0	0.438	0	---	7
8	---	---	0	0.006	0.875	0.236	0.431	0	0.427	0	---	8
9	---	---	0.212	0.031	0.884	0.287	0.449	0	0.418	0	---	9
10	---	---	1.521	2.899	0.922	0.332	0.456	0	0.403	0	---	10
11	---	---	1.586	4.372	0.922	0.338	0.392	0	0.392	0	---	11
12	---	---	1.123	1.193	0.920	0.345	0.052	0	0.382	0	---	12
13	---	---	0.680	0.626	0.918	0.340	0	0	0.379	0	---	13
14	---	---	0.649	0.437	0.916	0.347	0	0	0.370	0	---	14
15	---	---	0.664	0.024	0.909	0.367	0	0	0.365	0	---	15
16	---	---	0.730	0.004	0.892	0.378	0	0	0.364	0	---	16
17	---	---	0.797	0.002	0.872	0.395	0	0	0.361	0	---	17
18	---	---	1.034	0.001	0.771	0.450	0	0	0.352	0	---	18
19	---	---	0.973	0.001	0.644	2.640	0	0	0.335	0	---	19
20	---	---	0.664	0	0.671	4.205	0	0	0.322	0	---	20
21	---	---	0.408	0	0.664	3.435	0	0	0.310	0	---	21
22	---	---	0.184	0	0.660	3.211	0	0.004	0.277	0	---	22
23	---	---	0.002	0.001	0.659	2.792	0	0.016	0.137	0	---	23
24	---	---	0.002	0	0.660	2.301	0	0.057	0.130	0	---	24
25	---	---	0.002	0	0.427	2.034	0	1.159	0.125	0	---	25
26	---	---	0.002	0.001	0.228	1.285	0	0.950	0.123	0	---	26
27	---	---	0.002	0.151	0.208	0.530	0	0.687	0.115	0	---	27
28	---	---	0.002	0.343	0.211	0.535	0	0.677	0.116	0 E	---	28
29	---	---	0.002	0.361	0.205	0.530	0	0.575	0.131	0 E	---	29
30	---	---	0.002	0.405	0.196	0.522	0	0.384	0.129	0 E	---	30
31	---	---	0.002	0	0.197	0	0	0.373	0	0 E	---	31
Mean	---	---	0.363	0.362	0.677	0.978	0.196	0.177	0.313	0.011	---	---
Total	---	---	971.362	939.476	1814.245	2533.846	525.094	473.689	810.738	28.892	---	---
Max	---	---	2.128	6.307	0.931	4.18	1.195	1.184	0.544	0.162	---	---
(day)	---	---	11 19:34	11 07:19	10 11:14	19 16:49	2 23:19	25 03:29	4 22:19	2 03:49	---	---
Min	---	---	0	0	0.171	0.175	0	0	0.106	0	---	---
(day)	---	---	1 00:04	20 06:19	31 14:39	5 08:19	12 22:09	1 00:00	27 15:19	6 20:24	---	---

A - Manual Gauge B - Ice Conditions E - Estimated D - Dry

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
 Daily Mean Discharge Report for 2014
 Regina, SK
 June 4, 2015 14:25

CYPRESS LAKE WEST OUTFLOW CANAL
 Station No.: 11AB077

Day	Discharge Units: Cubic Metres Per Second												Day
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	---	---	0 B	0.012 B	0.352	0.135	0.186	0	0	0	0	---	1
2	---	---	0 B	0.025 B	0.251	0.003	0.178	0	0	0	0	---	2
3	---	---	0 B	0.013 B	0.078	0	0.110	0	0	0	0	---	3
4	---	---	0 B	0.013 B	0.079	0	0.018	0	0	0	0	---	4
5	---	---	0 B	0.017 B	0.090	0	0.035	0	0	0	0	---	5
6	---	---	0 B	0.019 B	0.120	0	0.060	0	0	0	0	---	6
7	---	---	0 B	0.014 B	0.130	0	0.005	0	0	0	0	---	7
8	---	---	0 B	0.080 B	0.152	0	0	0	0	0	0	---	8
9	---	---	0 B	0.127 B	0.162	0	0	0	0	0	0	---	9
10	---	---	0 B	0.003	0.157	0	0	0	0	0	0	---	10
11	---	---	0 B	0.002	2.401	0	0	0	0	0	0	---	11
12	---	---	0 B	0	4.524	0	0	0	0	0	0	---	12
13	---	---	0 B	0	4.695	0	0	0	0	0	0	---	13
14	---	---	0 B	0	4.728	0	0	0	0	0	0	---	14
15	---	---	0 B	0.106	4.843	0	0	0	0	0	0	---	15
16	---	---	0 B	0.272	4.964	0	0	0	0	0	0	---	16
17	---	---	0 B	0.138	5.031	0	0	0	0	0	0	---	17
18	---	---	0 B	0.131	5.036	0	0	0	0	0	0	---	18
19	---	---	0 B	0.121	4.977	0.066	0	0	0	0	0	---	19
20	---	---	0 B	0.111	4.742	0.247	0	0	0	0	0	---	20
21	---	---	0 B	0.105	4.393	0.212	0	0	0	0	0	---	21
22	---	---	0 B	0.103	4.433	0.200	0	0	0	0	0	---	22
23	---	---	0 B	0.105	3.787	0.197	0	0	0	0	0	---	23
24	---	---	0 B	0.105	2.879	0.197	0	0	0	0	0	---	24
25	---	---	0.001 B	0.106	2.050	0.195	0	0	0	0	0	---	25
26	---	---	0.022 B	0.104	2.086	0.197	0	0	0	0	0	---	26
27	---	---	0.014 B	0.147	2.105	0.198	0	0	0	0	0	---	27
28	---	---	0.004 B	0.189	2.128	0.192	0	0	0	0	0	---	28
29	---	---	0.006 B	0.270	1.097	0.191	0	0	0	0	0	---	29
30	---	---	0.021 B	0.386	0.170	0.193	0	0	0	0	0	---	30
31	---	---	0.011 B	0	0.163	0	0	0	0	0	0	---	31
Mean	---	---	0.003	0.094	2.350	0.081	0.019	0	0	0	0	---	
Total	---	---	6.922	243.933	629.538	209.337	51.166	0	0	0	0	---	
Max (day)	---	---	0.028	0.420	5.151	0.264	0.197	0	0	0	0	---	
Min (day)	---	---	26 15:04	29 18:09	16 14:29	20 16:39	1 00:29	1 00:00	1 00:00	1 00:00	1 00:00	---	
A - Manual Gauge	B - Ice Conditions	E - Estimated	D - Dry										

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
 Daily Mean Discharge Report for 2014
 Regina, SK
 June 4, 2015 14:26

CYPRESS LAKE WEST INFLOW CANAL DRAIN
 Station No.: 11AB085
 Discharge Units: Cubic Metres Per Second
 Total Units: Cubic Decimetres

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	1
2	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	2
3	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	3
4	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	4
5	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	5
6	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	6
7	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	7
8	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	8
9	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	9
10	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	10
11	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	11
12	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	12
13	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	13
14	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	14
15	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	15
16	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	16
17	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	17
18	---	---	0.002	0.002	0	0	0	0	0	0	0	---	18
19	---	---	0.002	0.002	0	0	0	0	0	0	0	---	19
20	---	---	0.002	0.002	0	0	0	0	0	0	0	---	20
21	---	---	0.002	0.002	0	0	0	0	0	0	0	---	21
22	---	---	0.002	0.002	0	0	0	0	0	0	0	---	22
23	---	---	0.002	0.002	0	0	0	0	0	0	0	---	23
24	---	---	0.002	0.002	0	0	0	0	0	0	0	---	24
25	---	---	0.002	0.002	0	0	0	0	0	0	0	---	25
26	---	---	0.002	0.001	0	0	0	0	0	0	0	---	26
27	---	---	0.002	0.001	0	0	0	0	0	0	0	---	27
28	---	---	0.002	0.001	0	0	0	0	0	0	0	---	28
29	---	---	0.002	0.001	0	0	0	0	0	0	0	---	29
30	---	---	0.002	0.001	0	0	0	0	0	0	0	---	30
31	---	---	0.002	0	0	0	0	0	0	0	0	---	31
Mean	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	---
Total	---	---	5.357	4.707	1.551	0	0	0	0	0	0	---	---
Max (day)	---	---	0.002	0.002	0.001	0	0	0	0	0	0	---	---
Min (day)	---	---	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---	---
A - Manual Gauge	B - Ice Conditions	C - Estimated	D - Dry										

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK
June 4, 2015 14:27

VIDORA DITCH NEAR CONSUL
Station No.: 11AB084

Day	Discharge Units: Cubic Metres Per Second											Day
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
1	---	---	0	0	0	0	0	0	0	0	0	---
2	---	---	0	0	0	0	0	0	0	0	0	2
3	---	---	0	0	0	0	0	0	0	0	0	3
4	---	---	0	0	0	0	0	0	0	0	0	4
5	---	---	0	0	0	0	0	0	0	0	0	5
6	---	---	0	0	0	0	0	0	0	0	0	6
7	---	---	0	0	0	0	0	0	0	0	0	7
8	---	---	0	0	0	0	0	0	0	0	0	8
9	---	---	0	0	0	0	0	0	0	0	0	9
10	---	---	0	0	0	0	0	0	0	0	0	10
11	---	---	0	0	0	0	0	0	0	0	0	11
12	---	---	0	0	0	0	0	0	0	0	0	12
13	---	---	0	0	0	0	0	0	0	0	0	13
14	---	---	0	0	0	0	0	0	0	0	0	14
15	---	---	0	0	0	0	0	0	0	0	0	15
16	---	---	0	0	0	0	0	0	0	0	0	16
17	---	---	0	0	0	0	0	0	0	0	0	17
18	---	---	0	0	0	0	0	0	0	0	0	18
19	---	---	0	0	0	0	0	0	0	0	0	19
20	---	---	0	0	0	0	0	0	0	0	0	20
21	---	---	0	0	0	0	0	0	0	0	0	21
22	---	---	0	0	0	0	0	0	0	0	0	22
23	---	---	0	0	0	0	0	0	0	0	0	23
24	---	---	0	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	0	29
30	---	---	0	0	0	0	0	0	0	0	0	30
31	---	---	0	0	0	0	0	0	0	0	0	31
Mean	---	---	0	0	0	0	0.968	0	0	0	0	---
Total	---	---	0	0	2592.798	0	0	0	0	0	0	---
Max	---	---	0	0	2.158	0	0	0	0	0	0	---
(day)	---	---	1 00:00	1 00:00	12 12:45	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---
Min	---	---	0	0	0	0	0	0	0	0	0	---
(day)	---	---	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---
A - Manual Gauge	B - Ice Conditions	C - Estimated	D - Dry	E - Estimated	F - Estimated	G - Estimated	H - Estimated	I - Estimated	J - Estimated	K - Estimated	L - Estimated	M - Estimated

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK
June 4, 2015 14:28

RICHARDSON DITCH NEAR CONSUL
Station No.: 11AB058

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Discharge Units:	Cubic Metres Per Second
													Total Units:	Cubic Decametres
1	---	---	0	0	0	0	0	0	0	0	0	0	---	---
2	---	---	0	0	0	0	0	0	0	0	0	0	---	2
3	---	---	0	0	0	0	0	0	0	0	0	0	---	3
4	---	---	0	0	0	0	0	0	0	0	0	0	---	4
5	---	---	0	0	0	0	0	0	0	0	0	0	---	5
6	---	---	0	0	0	0	0	0	0	0	0	0	---	6
7	---	---	0	0	0	0	0	0	0	0	0	0	---	7
8	---	---	0	0	0	0	0	0	0	0	0	0	---	8
9	---	---	0	0	0	0	0	0	0	0	0	0	---	9
10	---	---	0	0	0	0	0	0	0	0	0	0	---	10
11	---	---	0	0	0	0	0	0	0	0	0	0	---	11
12	---	---	0	0	0	0	0	0	0	0	0	0	---	12
13	---	---	0	0	0	0	0	0	0	0	0	0	---	13
14	---	---	0	0	0	0	0	0	0	0	0	0	---	14
15	---	---	0	0	0	0	0	0	0	0	0	0	---	15
16	---	---	0	0	0	0	0	0	0	0	0	0	---	16
17	---	---	0	0	0	0	0	0	0	0	0	0	---	17
18	---	---	0	0	0	0	0	0	0	0	0	0	---	18
19	---	---	0	0	0	0	0	0	0	0	0	0	---	19
20	---	---	0	0	0	0	0	0	0	0	0	0	---	20
21	---	---	0	0	0	0	0	0	0	0	0	0	---	21
22	---	---	0	0	0	0	0	0	0	0	0	0	---	22
23	---	---	0	0	0	0	0	0	0	0	0	0	---	23
24	---	---	0	0	0	0	0	0	0	0	0	0	---	24
25	---	---	0	0	0	0	0	0	0	0	0	0	---	25
26	---	---	0	0	0	0	0	0	0	0	0	0	---	26
27	---	---	0	0	0	0	0	0	0	0	0	0	---	27
28	---	---	0	0	0	0	0	0	0	0	0	0	---	28
29	---	---	0	0	0	0	0	0	0	0	0	0	---	29
30	---	---	0	0	0	0	0	0	0	0	0	0	---	30
31	---	---	0	0	0	0	0	0	0	0	0	0	---	31
Mean	---	---	0	0	0	0.661	0	0	0	0	0	0	---	---
Total	---	---	0	0	0	1770.289	0	0	0	0	0	0	---	---
Max	---	---	0	0	2.010	0	0	0	0	0	0	0	---	---
(day)	---	---	1 00:00	1 00:00	23 15:25	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---	---
Min	---	---	0	0	0	0	0	0	0	0	0	0	---	---
(day)	---	---	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---	---

A - Manual Gauge B - Ice Conditions E - Estimated D - Dry

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK

MCKINNON DITCH NEAR CONSUL
June 4, 2015 14:29

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Discharge Units:		Cubic Metres Per Second
													Total Units:	Cubic Decametres	
1	---	---	0	0	0	0.004	0	0	0	0	0	0	---	---	1
2	---	---	0	0	0	0.002	0	0	0	0	0	0	---	---	2
3	---	---	0	0	0	0.006	0	0	0	0	0	0	---	---	3
4	---	---	0	0	0	0.008	0	0	0	0	0	0	---	---	4
5	---	---	0	0	0	0.006	0	0	0	0	0	0	---	---	5
6	---	---	0	0	0	0.002	0	0	0	0	0	0	---	---	6
7	---	---	0	0	0	0	0	0	0	0	0	0	---	---	7
8	---	---	0	0	0	0	0	0	0	0	0	0	---	---	8
9	---	---	0	0	0	0	0	0	0	0	0	0	---	---	9
10	---	---	0	0	0	0	0	0	0	0	0	0	---	---	10
11	---	---	0	0	0	0	0	0	0	0	0	0	---	---	11
12	---	---	0	0	0	0	0	0	0	0	0	0	---	---	12
13	---	---	0	0	0.989	0	0	0	0	0	0	0	---	---	13
14	---	---	0	0	1.637	0	0	0	0	0	0	0	---	---	14
15	---	---	0	0	1.551	0	0	0	0	0	0	0	---	---	15
16	---	---	0	0	1.649	0	0	0	0	0	0	0	---	---	16
17	---	---	0	0	1.657	0	0	0	0	0	0	0	---	---	17
18	---	---	0	0	1.508	0	0	0	0	0	A	0	---	---	18
19	---	---	0	0	1.743	0	0	0	0	0	E	0	---	---	19
20	---	---	0	0	1.640	0	0	0	0	0	E	0	---	---	20
21	---	---	0	0	1.387	0	0	0	0	0	E	0	---	---	21
22	---	---	0	0	1.195	0	0	0	0	0	E	0	---	---	22
23	---	---	0	0	0.706	0	0	0	0	0	E	0	---	---	23
24	---	---	0	0	0.546	0	0	0	0	0	E	0	---	---	24
25	---	---	0	0	0.313	0	0	0	0	0	E	0	---	---	25
26	---	---	0	0	0.047	0	0	0	0	0	E	0	---	---	26
27	---	---	0	0	0.036	0	0	0	0	0	E	0	---	---	27
28	---	---	0	0	0.026	0	0	0	0	0	E	0	---	---	28
29	---	---	0	0	0.021	0	0	0	0	0	E	0	---	---	29
30	---	---	0	0	0.012	0	0	0	0	0	E	0	---	---	30
31	---	---	0	0	0.008	0	0	0	0	0	E	0	---	---	31
Mean	---	---	0	0	0.538	0.001	0	0	0	0	0	0	---	---	---
Total	---	---	0	0	1440.394	2.566	0	0	0	0	0	0	---	---	---
Max	---	---	0	0	1.917	0.009	0	0	0	0	0	0	---	---	---
(day)	---	1 00:04	1 00:00	19 23:04	3 15:19	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---	---	---
Min	---	0	0	0	0	0	0	0	0	0	0	0	---	---	---
(day)	---	1 00:04	1 00:00	1 00:00	7 10:39	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---	---	---

A - Manual Gauge B - Ice Conditions E - Estimated D - Dry

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK

NASHLYN CANAL NEAR CONSUL,
Station No.: 11AB018

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Discharge Units:	
													Total	Units:
1	---	---	---	0 E	0.779 E	0.011	0	0	0	0	0	0	---	---
2	---	---	---	0 E	0.780 E	0	0	0	0	0	0	0	---	2
3	---	---	---	0 E	0.781 A	0	0	0	0	0	0	0	---	3
4	---	---	---	0 E	0.784	0	0	0	0	0	0	0	---	4
5	---	---	---	0 E	0.786	0	0	0	0	0	0	0	---	5
6	---	---	---	0 E	0.787	0	0	0	0	0	0	0	---	6
7	---	---	---	0 E	0.786	0	0	0	0	0	0	0	---	7
8	---	---	---	0 E	0.782	0	0	0	0	0	0	0	---	8
9	---	---	---	0 E	0.789	0	0	0	0	0	0	0	---	9
10	---	---	0.021 B	0.790	0	0	0	0	0	0	0	0	---	10
11	---	---	0.631 B	0.792	0	0	0	0	0	0	0	0	---	11
12	---	---	0.821 B	0.760	0	0	0	0	0	0	0	0	---	12
13	---	---	0.792 B	0.731	0	0	0	0	0	0	0	0	---	13
14	---	---	0.693 B	0.792	0	0	0	0	0	0	0	0	---	14
15	---	---	0.670 B	0.788	0	0	0	0	0	0	0	0	---	15
16	---	---	0.704 B	0.780	0	0	0	0	0	0	0	0	---	16
17	---	---	0.757 B	0.786	0	0	0	0	0	0	0	0	---	17
18	---	---	0.756	0.783	0	0	0	0	0	0	0	0	---	18
19	---	---	0.801	0.767	0	0	0	0	0	0	0	0	---	19
20	---	---	0.799	0.746	0	0	0	0	0	0	0	0	---	20
21	---	---	0.775	0.733	0	0	0	0	0	0	0	0	---	21
22	---	---	0.482	0.726	0	0	0	0	0	0	0	0	---	22
23	---	---	0.531	0.698	0	0	0	0	0	0	0	0	---	23
24	---	---	0.479 E	0.697	0	0	0	0	0	0	0	0	---	24
25	---	---	0.429 E	0.642	0.563	0	0	0	0	0	0	0	---	25
26	---	---	0.401 A	0.613	0.547	0	0	0	0	0	0	0	---	26
27	---	---	0.465	0.616	0.473	0	0	0	0	0	0	0	---	27
28	---	---	0.754	0.600	0.018	0	0	0	0	0	0	0	---	28
29	---	---	0.754	0.588	0	0	0	0	0	0	0	0	---	29
30	---	---	0.770 A	0.444	0	0	0	0	0	0	0	0	---	30
31	---	---	0.776 E	0	0	0	0	0	0	0	0	0	---	31
Mean	---	---	0.454	0.731	0.052	0	0	0	0	0	0	0	---	---
Total	---	---	1214.958	1894.347	139.392	0	0	0	0	0	0	0	---	---
Max (day)	---	---	1.082	0.843	0.657	0	0	0	0	0	0	0	---	---
Min (day)	---	---	0	0.047	1 14:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---	---
A - Manual Gauge B - Ice Conditions E - Estimated D - Dry														

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

BATTLE CREEK BASIN
SURFACE WATER USE (MINOR DIVERSIONS) FOR 2014
(VOLUME IN CUBIC DECAMETERS)

File Number	March		April		May		June		July		August		September		October		Total
	1-25	26-9	10-24	25-9	10-25	26-9	10-24	25-9	10-25	26-9	10-25	26-9	10-24	25-9	10-25	26-31	
323																	0
338																	0
622																	0
710																	0
900																	0
985																	0
1247																	0
1499		3.6	8.7														12
2841																	0
2954																	0
3855																	0
3930																	0
3931																	0
4851																	0
5293																	0
5442	11.6	3.9															15
5512						9.0											9
5528		4.1															4
5529		4.1															4
5784																	0
5940																	0
6139			6.9	1.4													8
6150																	0
6714																	0
6719			5.2	3.0													8
6795																	0
7144	7.5	7.5															15
8056		7.4															7
8225																	0
8228																	0
8314			2.1	1.2													3
8336																	0
8559																	0
8575																	0
8646																	0
8647																	0
8648																	0
8649																	0
8998																	0
9344																	0
9679			0.8														1
10138																	0
Sub-Total	19.1	30.6	23.7	5.6	0	9.0	0	0	0	0	88						
Dom. Uses	4.6	7.3	5.7	1.3	0	2.2	0	0	0	0	21						
Sub-Total	24	38	29	7	0	11	0	0	0	0	109						

Continued ...

BATTLE CREEK BASIN (continued)
SURFACE WATER USE (MINOR DIVERSIONS) FOR 2014
(VOLUME IN CUBIC DECAMETERS)

File Number		Minor Diversions Associated with Richardson Diversion (Consul) Area																	
		March		April		May		June		July		August		September		October			
1-23	24-7	8-22	23-7	8-23	24-7	8-22	23-7	8-23	24-7	8-23	24-7	8-22	23-7	8-23	24-31	Total			
606																		0	
765																		0	
1753	16.9	16.9																34	
1754	13.2	11.5																25	
1786	2.5																	3	
2124																		0	
2159	4.9																	5	
2282																		0	
2283																		0	
2500		1.6																2	
2655																		0	
2755	28.8																	29	
3586		13.2																13	
5263		20.6																21	
5292																		0	
5420																		0	
5421																		0	
5422																		0	
5453		16.4																16	
5455		4.1																4	
5539																		0	
5540																		0	
5557																		0	
5874																		0	
6308																		0	
7241																		0	
8107		4.1																4	
8192		16.4																16	
9759																		0	
9760																		0	
9811	8.9	1.0																10	
11191																		0	
11192																		0	
11805		4.1																4	
Sub-Total	79.2	55.6	50.2	0	0	0	0	185											
Dom. Uses	19.0	13.3	12.0	0	0	0	0	44											
Sub-Total	98	69	62	0	0	0	0	229											

Continued

BATTLE CREEK BASIN (continued)
SURFACE WATER (MINOR DIVERSIONS) FOR 2014
(VOLUME IN CUBIC DECAMETERS)

File	Minor Diversions Associated with Cypress Lake Area																
	March		April		May		June		July		August		September		October		
1-25	26-9	10-24	25-9	10-25	26-9	10-24	25-9	10-25	26-9	10-25	26-9	10-24	25-9	10-25	26-31	Total	
86 (sprinkler)																	0
	Not included as it is accounted for with Shepherd Ditch																
181	8.2																8
219																	0
237																	0
358			10.8	3.6													14
5609																	0
10340																	0
13756																	0
14422																	0
15610				18.0	27.1	3.6											49
Sub-Total	8.2	0	0	10.8	21.6	27.1	3.6	0	0	0	0	0	0	0	0	0	71
Dom. Uses	2.0	0	0	2.6	5.2	6.5	0.9	0	0	0	0	0	0	0	0	0	17
Sub-Total	10	0	0	13	27	34	4	0	0	0	0	0	0	0	0	0	88

Minor Diversions Associated with Gaff Ditch Area																		
File																		
	30.8	6.6	19.1	4.1	148.5	4.3	9.1	3.0	189.8	43.8	15.2	20.6	98.03	12.3	93.0	343.0	270.0	
52A																		37
52B																		23
59																		149
71																		16
73																		0
77																		0
190																		234
5193																		15
5527																		21
9803																		0
9917																		12
14994																		0
Shepherd Ditch (includes 86, 110)																		851
			93.0	343.0	270.0	78.0	11.0	8.0	14.0	7.0	2.0	6.0	6.0	6.0	5.0	2.0	638	
	0.0	0.0	69.8	257.3	202.5	58.5	8.3	6.0	10.5	5.3	1.5	4.5	4.5	4.5	3.8	1.5		
Sub-Total	196.6	0	259.6	301.1	256.7	78.3	11.3	6.0	10.5	5.3	1.5	4.5	4.5	4.5	3.8	1.5	1146	
Dom. Uses	47.2	0	62.3	72.3	61.6	18.8	2.7	1.4	2.5	1.3	0.4	1.1	1.1	1.1	0.9	0.4	275	
Sub-Total	244	0	322	373	318	97	14	7	13	7	2	6	6	6	5	2	1420	

25% return flow factor applied to Shepherd Ditch as per Section 6.6.1 of the Procedures Manual

Continued

BATTLE CREEK BASIN (continued)
SURFACE WATER USE (MINOR DIVERSIONS) FOR 2014
(VOLUME IN CUBIC DECAMETERS)

Minor Diversions Associated with Upper Battle Creek (Reesor Lake) Area																		
File Number	March		April		May		June		July		August		September		October			
	1-25	26-9	10-24	25-9	10-25	26-9	10-24	25-9	10-25	26-9	10-25	26-9	10-24	25-9	10-25	26-31	Total	
Adams Lake	59.0	-11.0	28.0	12.0	-1.0	-15.0	85.0	-16.0	-33.0	-31.0	-13.0	174.0	35.0	-16.0	-1.0	6.0	262	
Alberta Use																	0	
Sub-Total	59	-11	28	12	-1	-15	85	-16	-33	-31	-13	174	35	-16	-1	6	262	
Dom. Uses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	59	-11	28	12	-1	-15	85	-16	-33	-31	-13	174	35	-16	-1	6	262	

Total Minor Diversions from Battle Creek (Less Adams Lake)

Nashlyn Area	19.1	30.6	23.7	5.6		9.0												88
Consul Area	79.2	55.6	50.2															185
Cypress Lake																		71
Gaff Ditch	8.2			10.8	21.6	27.1	3.6											
Reesor Lake	196.6		259.6	301.1	256.7	78.3	11.3	6.0	10.5	5.3	1.5	4.5	4.5	4.5	3.8	1.5	1146	
Total	303	86	333	317	278	114	15	6	11	5	2	5	5	5	4	2	1490	

Percent Domestic Use (From Table)

0.240

Total Diversions (minor and domestic) from Battle Creek including Adams Lake

Nashlyn Area	23.6	38.0	29.4	6.9		11.2												109
Consul Area	98.3	69.0	62.2															229
Cypress Lake																		89
Gaff Ditch	10.2			13.4	26.8	33.6	4.5											
Reesor Lake	243.7		321.9	373.3	318.3	97.1	14.0	7.4	13.0	6.5	1.9	5.6	5.6	5.6	4.7	1.9	1420	
Total	435	96	441	406	344	127	103	-9	-20	-24	-11	180	41	-10	4	8	2109	

Water Rights Data supplied by Saskatchewan Water Security Agency and Alberta Environment and Sustainable Resource Development .

Totals of columns and rows may not add exactly due to rounding.

A 25 percent return flow factor is applied to Shepherd Ditch.

See Upper Battle Creek Depletion computations for Adams Lake.

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK
June 4, 2015 15:31

FRENCHMAN RIVER AT INTERNATIONAL BOUNDARY

Station No.: 11AC041

	Discharge Units: Cubic Metres Per Second											
	Total Units: Cubic Decametres											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	---	---	1.934	4.456	4.217	1.164	4.941	0.177	3.104	2.030	2.515	1.524
2	---	---	2.425	3.742	3.755	2.557	3.850	0.166	2.941	1.739	2.537	1.950
3	---	---	1.631	3.447	3.734	2.364	3.284	0.184	2.891	1.635	2.529	1.924
4	---	---	1.479	3.761	3.712	2.167	2.523	0.185	3.081	1.607	2.511	1.842
5	---	---	1.681	4.215	3.701	1.761	1.797	0.203	3.093	1.410	2.516	1.902
6	---	---	2.329	4.212	3.665	1.898	1.441	0.215	2.789	0.829	2.515	1.871
7	---	---	2.997	4.278	3.385	1.970	1.192	0.326	2.716	0.627	2.510	1.840
8	---	---	2.907	4.396	3.226	1.967	0.974	1.268	2.578	0.606	2.513	1.660
9	---	---	7.060	5.324	3.186	2.375	0.889	1.470	2.054	0.595	2.561	1.575
10	---	---	22.308	7.241	2.333	1.880	1.368	1.467	2.309	0.585	2.508	1.548
11	---	---	34.300	7.794	1.118	1.624	1.454	1.411	2.274	0.592	1.623	1.435
12	---	---	34.796	8.220	0.847	1.748	1.152	1.376	1.877	0.593	2.065	1.335
13	---	---	39.485	8.454	0.810	1.648	1.006	1.258	1.798	0.568	2.893	1.105
14	---	---	47.532	8.362	0.781	1.640	0.943	0.773	1.735	0.572	2.582	0.919
15	---	---	48.415	8.245	0.823	2.301	0.863	0.617	1.686	0.578	1.800	0.855
16	---	---	47.184	8.078	1.302	2.170	0.835	0.594	1.656	0.624	2.000	0.791
17	---	---	46.821	7.897	1.090	4.018	0.872	0.514	1.626	0.623	1.755	0.718
18	---	---	45.559	7.777	1.056	29.901	0.884	0.620	1.608	0.626	1.799	0.701
19	---	---	29.218	4.817	1.138	38.729	0.884	0.490	1.656	0.629	1.692	0.640
20	---	---	23.232	3.371	1.802	45.165	0.885	0.429	1.699	0.610	1.665	0.585
21	---	---	21.168	3.224	1.883	42.050	0.873	0.489	1.647	0.611	1.598	0.549
22	---	---	16.402	3.134	1.050	39.841	0.851	0.465	1.635	0.609	1.461	0.527
23	---	---	13.619	2.825	0.903	32.655	0.839	0.501	1.634	0.607	1.376	0.525
24	---	---	0.824	13.789	2.730	0.788	19.457	29.442	5.256	1.629	1.313	0.533
25	---	---	0.991	12.755	3.573	0.650	11.496	6.505	9.617	1.612	0.581	0.580
26	---	---	1.529	9.930	3.819	0.579	8.764	5.418	8.245	1.602	0.614	0.597
27	---	---	1.945	6.793	3.767	0.543	8.956	5.052	6.020	1.649	0.660	0.935
28	---	---	2.186	6.519	3.836	0.512	9.352	2.497	5.434	1.724	0.661	0.926
29	---	---	6.291	3.805	0.593	10.704	0.239	5.419	5.486	1.036	0.868	0.871
30	---	---	6.104	4.573	0.604	8.870	0.216	4.906	4.889	2.494	0.952	1.045
31	---	---	5.391	0.640	0.640	0.196	0.196	3.817	2.499	0.718		31
Mean	---	---	18.131	5.112	1.756	11.373	2.715	2.062	2.289	0.924	1.894	1.091
Total	---	---	48561	13251	4702	29479	7272	5522	5334	2476	4908	2923
Max (day)	---	2.401	51.718	8.459	4.744	45.827	79.551	10.297	7.222	2.541	3.219	2.627
Min (day)	---	28 21:10	17 19:20	13 00:20	1 00:00	20 10:30	24 03:55	25 21:15	29 23:55	1 00:00	13 13:30	3 09:10
A	-	Manual Gauge	B	-	Ice Conditions	E	-	Estimated	D	-	Dry	

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK
June 4, 2015 15:24

BELANGER CREEK DIVERSION TO CYPRESS LAKE

Station No.: 11AC064

Discharge Units: Total Units: Cubic Metres Per Second
Cubic Decametres

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	---	---	0 B	0.976	0.349	0.537	0	0	0	0	0	---	1
2	---	---	0 B	0.615	0.292	0.546	0	0	0	0	0	---	2
3	---	---	0 B	0.640	0.333	0.596	0	0	0	0	0	---	3
4	---	---	0 B	0.597	0.450	0.700	0	0	0	0	0	---	4
5	---	---	0 B	0.778	0.359	0.674	0	0	0	0	0	---	5
6	---	---	0 B	1.434	0.305	0.623	0	0	0	0	0	---	6
7	---	---	0 B	2.887	0.268	0.615	0	0	0	0	0	---	7
8	---	---	0 B	2.981	0.096	0.193	0	0	0	0	0	---	8
9	---	---	0 B	4.213	0.021	0	0	0	0	0	0	---	9
10	---	---	0.014 B	2.873	0.352	0	0	0	0	0	0	---	10
11	---	---	0.468 B	1.958	0.381	0	0	0	0	0	0	---	11
12	---	---	2.646 B	1.310	0.367	0	0	0	0	0	0	---	12
13	---	---	3.151	0.918	0.332	0	0	0	0	0	0	---	13
14	---	---	2.851	0.631	0.318	0	0	0	0	0	0	---	14
15	---	---	3.773	0.538	0.310	0	0	0	0	0	0	---	15
16	---	---	4.305	0.404	0.307	0	0	0	0	0	0	---	16
17	---	---	5.845	0.363	0.335	0	0	0	0	0	0	---	17
18	---	---	5.040	0.420	0.361	0.147	0	0	0	0	0	---	18
19	---	---	3.332	0.469	0.376	0.628	0	0	0	0	0	---	19
20	---	---	2.620	0.572	0.398	0.574	0	0	0	0	0	---	20
21	---	---	2.078	0.543	0.410	0.557	0	0	0	0	0	---	21
22	---	---	1.261	0.498	0.407	0.576	0	0	0	0	0	---	22
23	---	---	1.283	0.764	0.405	0.322	0	0.705	0	0	0	---	23
24	---	---	0.775	1.350	0.400	0.073	0	3.531	0	0	0	---	24
25	---	---	0.558	0.964	0.450	0.056	0	2.344	0	0	0	---	25
26	---	---	0.441	0.677	0.504	0.016	0	1.310	0	0	0	---	26
27	---	---	0.440	0.638	0.501	0	0	0.934	0	0	0	---	27
28	---	---	0.360	0.565	0.503	0	0	0.446	0	0	0	---	28
29	---	---	0.363	0.461	0.512	0	0	0.123	0	0	0	---	29
30	---	---	0.525	0.356	0.514	0	0	0	0	0	0	---	30
31	---	---	0.728	0.529	0	0	0	0	0	0	0	---	31
Mean	---	---	1.382	1.080	0.371	0.248	0	0.303	0	0	0	---	---
Total	---	---	3701.146	2798.624	933.068	642.173	0	811.490	0	0	0	---	---
Max (day)	---	---	7.519	4.720	0.553	0.759	0	3.972	0	0	0	---	---
Min (day)	---	---	18 04:15	9 21:00	31 14:15	3 23:10	1 00:00	24 14:20	1 00:00	1 00:00	1 00:00	0	---
A - Manual Gauge	B - Ice Conditions	C - Estimated	D - Dry	E - Estimated	F - Estimated	G - Estimated	H - Estimated	I - Estimated	J - Estimated	K - Estimated	L - Estimated	M - Estimated	N - Estimated
Note:	Report data from Aquarius 3.1.591 displayed in a modified format.												

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014

Regina, SK

October 30, 2015 09:11

CYPRESS LAKE
Station No.: 11AC037
Stage Units: Metres

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	---	---	974.966	975.244	975.436	975.214	975.277	975.198	975.252	975.233	---	---	1
2	---	---	974.966	975.248	975.443	975.212	975.278	975.196	975.249	975.232	---	---	2
3	---	---	974.970	975.251	975.448	975.220	975.278	975.193	975.255	975.221	---	---	3
4	---	---	974.970	975.255	975.451	975.234	975.277	975.193	975.253	975.220	---	---	4
5	---	---	974.970	975.258	975.455	975.230	975.275	975.206	975.250	975.217	---	---	5
6	---	---	974.974	975.262	975.464	975.222	975.273	975.208	975.250	975.217	---	---	6
7	---	---	974.974	975.271	975.456	975.222	975.280	975.209	975.248	975.211	---	---	7
8	---	---	974.974	975.285	975.457	975.220	975.279	975.207	975.250	975.208	---	---	8
9	---	---	974.974	975.304	975.459	975.219	975.278	975.204	975.267	975.204	---	---	9
10	---	---	974.977	975.325	975.462	975.216	975.278	975.198	975.262	975.202	---	---	10
11	---	---	974.983	975.356	975.460	975.215	975.277	975.196	975.254	975.200	---	---	11
12	---	---	974.985	975.378	975.466	975.212	975.277	975.190	975.252	975.201	---	---	12
13	---	---	975.020	975.384	975.431	975.208	975.292	975.183	975.250	975.196	---	---	13
14	---	---	975.038	975.387	975.414	975.211	975.285	975.175	975.248	975.195	---	---	14
15	---	---	975.057	975.390	975.401	975.211	975.269	975.184	975.247	975.194	---	---	15
16	---	---	975.082	975.389	975.385	975.210	975.270	975.177	975.248	975.195	---	---	16
17	---	---	975.120	975.390	975.387	975.219	975.281	975.173	975.249	975.192	---	---	17
18	---	---	975.158	975.393	975.351	975.228	975.253	975.175	975.250	975.190	---	---	18
19	---	---	975.185	975.395	975.334	975.237	975.235	975.179	975.250	975.189	---	---	19
20	---	---	975.205	975.394	975.318	975.249	975.231	975.180	975.251	975.188	---	---	20
21	---	---	975.218	975.394	975.304	975.261	975.229	975.198	975.248	975.187	---	---	21
22	---	---	975.233	975.395	975.290	975.271	975.229	975.225	975.248	975.191	---	---	22
23	---	---	975.228	975.403	975.276	975.279	975.229	975.240	975.248	975.190	---	---	23
24	---	---	975.232	975.410	975.266	975.288	975.230	975.240	975.248	975.186	---	---	24
25	---	---	975.233	975.415	975.258	975.294	975.222	975.235	975.248	975.186	---	---	25
26	---	---	975.234	975.426	975.254	975.296	975.215	975.242	975.245	975.180	---	---	26
27	---	---	975.235	975.430	975.244	975.291	975.213	975.246	975.246	975.180	---	---	27
28	---	---	975.238	975.435	975.236	975.284	975.210	975.251	975.241	975.177	---	---	28
29	---	---	975.239	975.436	975.220	975.278	975.207	975.252	975.238	975.173	---	---	29
30	---	---	975.241	975.434	975.217	975.277	975.202	975.259	975.237	975.173	---	---	30
31	---	---	975.242	975.236	975.236	975.197	975.258	975.171	975.171	975.171	---	---	31
Mean	---	---	975.101	975.358	975.362	975.241	975.252	975.209	975.249	975.197	---	---	
Max (day)	---	---	975.248	975.452	975.479	975.305	975.305	975.324	975.287	975.279	---	---	
Min (day)	---	---	30 05:25	26 07:30	6 11:45	26 18:25	13 19:10	29 23:10	3 22:25	2 01:15	---	---	
			974.961	975.242	975.201	975.192	975.159	975.231	975.164	975.165	23 21:15	---	
			2 13:15	1 02:35	29 14:45	13 06:00	31 15:00	18 05:45	26 16:45	23 16:45	23 21:15		

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA

Daily Mean Discharge Report for 2014
Regina, SK

June 4, 2015 15:25

CYPRESS LAKE EAST OUTFLOW CANAL
Station No.: 11AC060

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Discharge Units:		Cubic Metres Per Second		
														Total	Units:	Total	Units:	
1	---	---	0.017 B	0.584 B	0.166	0.073 E	0.117	0.045	0.139	0.029	---	---	---	1				
2	---	---	0.016 B	0.642 B	0.156	0.077 E	0.106	0.058	0.125	0.026	---	---	---	2				
3	---	---	0.014 B	0.601	0.144	0.079 E	0.124	0.053	0.123	0.033	---	---	---	3				
4	---	---	0.012 B	0.532	0.145	0.081 E	0.165	0.049	0.135	0.046	---	---	---	4				
5	---	---	0.011 B	0.473	0.172	0.064 E	0.118	0.058	0.123	0.057	---	---	---	5				
6	---	---	0.011 B	0.406	0.222	0.058 E	0.098	0.065	0.109	0.128	---	---	---	6				
7	---	---	0.019 B	0.322	0.180	0.060 E	0.101	0.054	0.104	0.112	---	---	---	7				
8	---	---	0.045 B	0.251	0.175	0.060 E	0.092	0.049	0.102	0.111	---	---	---	8				
9	---	---	0.114 B	0.270 B	0.238	0.088 E	0.081	0.046	0.123	0.105	---	---	---	9				
10	---	---	0.229 B	0.214	0.213	0.247 E	0.067	0.042	0.134	0.102	---	---	---	10				
11	---	---	0.218 B	0.192	0.231	0.164 E	0.056	0.040	0.128	0.101	---	---	---	11				
12	---	---	0.250 B	0.161	0.309	0.150	0.056	0.035	0.116	0.090	---	---	---	12				
13	---	---	0.307 B	0.141	0.264	0.221	0.050	0.039	0.112	0.071	---	---	---	13				
14	---	---	0.253 B	0.107	0.324	0.178	0.045	0.040	0.107	0.103	---	---	---	14				
15	---	---	0.234 B	0.106	0.405	0.165	0.043	0.062	0.101	0.094	---	---	---	15				
16	---	---	0.305 B	0.108	0.370	0.174	0.041	0.068	0.097	0.089	---	---	---	16				
17	---	---	0.250 B	0.116	0.199	0.254	0.041	0.043	0.094	0.095	---	---	---	17				
18	---	---	0.236 B	0.126	0.179	0.238	0.040	0.041	0.097	0.095	---	---	---	18				
19	---	---	0.183 B	0.121	0.180 E	0.110	0.039	0.078	0.091	0.081	---	---	---	19				
20	---	---	0.203 B	0.123	0.181 E	0.057	0.034	0.067	0.088	0.097	---	---	---	20				
21	---	---	0.192 B	0.123	0.155 E	0.046	0.039	0.106	0.084	0.095	---	---	---	21				
22	---	---	0.069 B	0.126	0.101 E	0.041	0.040	0.188	0.091	0.099	---	---	---	22				
23	---	---	0.098 B	0.159	0.081 E	0.038	0.041	0.197	0.091	0.099	---	---	---	23				
24	---	---	0.126 B	0.128	0.053 E	0.039	0.050	0.102	0.095	0.082	---	---	---	24				
25	---	---	0.145 B	0.385	0.042 E	0.041	0.049	0.079	0.085	0.073	---	---	---	25				
26	---	---	0.180 B	0.540	0.023 E	0.096	0.031	0.064	0.080	0.117	---	---	---	26				
27	---	---	0.222 B	0.437	0.058 E	0.263	0.055	0.059	0.167	0.094	---	---	---	27				
28	---	---	0.356 B	0.193	0.067 E	0.202	0.049	0.056	0.065	0.092	---	---	---	28				
29	---	---	0.560 B	0.163	0.070 E	0.174	0.043	0.092	0.056	0.099	---	---	---	29				
30	---	---	0.642 B	0.168	0.059 E	0.153	0.038	0.225	0.040	0.134	---	---	---	30				
31	---	---	0.503 B	0.062	0.2 E	0.036	0.036	0.155	0.09	0.109	---	---	---	31				
Mean	---	---	0.194	0.267	0.169	0.123	0.064	0.076	0.100	0.089	---	---	---					
Total	---	---	520.209	692.741	451.459	318.926	171.67	203.635	259.457	238.622	---	---	---					
Max	---	---	0.669	0.661	0.471	0.320	0.226	0.291	0.153	0.256	---	---	---					
(day)	30 14:10	2 00:15	15 18:50	10 03:40	4 02:15	30 03:35	1 02:55	30 15:20	0.027	0.033	0.020	---	---					
Min	---	---	0.010	0.095	0.014	0.033	0.022	0.040	0.175	0.182	0.185	---	---	---				
(day)	5 14:20	15 18:45	25 19:30	22 19:40	26 19:35	12 17:50	30 18:25	2 02:05	2 02:05	2 02:05	2 02:05	---	---	---				

A - Manual Gauge B - Ice Conditions E - Estimated D - Dry

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

STORAGE FACTORS AND EVAPORATION LOSSES
2014

EASTEND RESERVOIR

11AC055

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	916.845	7688	-0.003	-2	609	691	81
2	918.362	12318	0.025	31	691	2559	1898
3	918.507	17628	0.030	54	2559	2813	308
4	918.671	19282	0.027	52	2813	3132	371
5	918.618	19828	0.023	45	3132	3026	-61
6	918.092	16809	0.062	104	3026	2138	-784
7	917.865	14047	0.035	50	2138	1814	-274
8	918.139	14162	-0.067	-95	1814	2209	299
9	918.288	15539	0.032	50	2209	2441	283
10	918.414	16770	0.059	98	2441	2645	303
11	918.136	16058	0.052	83	2645	2204	-358
12	918.092	14844	0.006	8	2204	2138	-58
13	917.943	14258	0.020	29	2138	1920	-189
14	918.400	15232	0.028	43	1920	2620	743
15	918.416	17336	0.030	52	2620	2649	81
16	916.735	12187	0.010	13	2649	607	-2029

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK
June 4, 2015 15:27

EASTEND CANAL NEAR EASTEND												Discharge Units: Total Units:				Cubic Metres Per Second Cubic Decimetres	
Station No.: 11AC052																	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day				
1	---	---	0	0	0	1.331	0	0	0	0	0	---	1				
2	---	---	0	0	0	0.534	0	0	0	0	0	---	2				
3	---	---	0	0	0	0	0	0	0	0	0	---	3				
4	---	---	0	0	0	0	0	0	0	0	0	---	4				
5	---	---	0	0	0	0	0	0	0	0	0	---	5				
6	---	---	0	0	0	0	0	0	0	0	0	---	6				
7	---	---	0	0	0	0	0	0	0	0	0	---	7				
8	---	---	0	0	0	0	0	0	0	0	0	---	8				
9	---	---	0	0	0	0	0	0	0	0	0	---	9				
10	---	---	0	0	0	0	0	0	0	0	0	---	10				
11	---	---	0	0	1.221	0	0	0	0	0	0	---	11				
12	---	---	0	0	1.853	0	0	0	0	0	0	---	12				
13	---	---	0	0	1.874	0	0	0	0	0	0	---	13				
14	---	---	0	0	1.970	0	0	0	0	0	0	---	14				
15	---	---	0	0	2.196	0	0	0	0	0	0	---	15				
16	---	---	0	0	2.191	0	0	0	0	0	0	---	16				
17	---	---	0	0	2.179	0	0	0	0	0	0	---	17				
18	---	---	0	0	2.202	0	0	0	0	0	0	---	18				
19	---	---	0	0	2.198	0	0	0	0	0	0	---	19				
20	---	---	0	0	2.217	0	0	0	0	0	0	---	20				
21	---	---	0	0	2.248	0	0	0	0	0	0	---	21				
22	---	---	0	0	2.296	0	0	0	0	0	0	---	22				
23	---	---	0	0	2.326	0	0	0	0	0	0	---	23				
24	---	---	0	0	2.415	0	0	0	0	0	0	---	24				
25	---	---	0	0	2.336	0	0	0	0	0	0	---	25				
26	---	---	0	0	2.200	0	0	0	0	0	0	---	26				
27	---	---	0	0	2.095	0	1.745	0	0	0	0	---	27				
28	---	---	0	0	1.930	0	2.701	0	0	0	0	---	28				
29	---	---	0	0	1.908	0	1.961	0	0	0	0	---	29				
30	---	---	0	0	1.795	0	0.821	0	0	0	0	---	30				
31	---	---	0	0	3599.059	161.075	624.472	0	0	0	0	---	31				
Mean	---	---	0	0	1.344	0.062	0.233	0	0	0	0	---					
Total	---	---	0	0	2.475	1.677	2.741	0	0	0	0	---					
Max	---	---	0	0	25 17:25	1 00:10	29 15:25	1 00:00	1 00:00	1 00:00	1 00:00	---					
(day)																	
Min	---	---	0	0	0	0	0	0	0	0	0	---					
(day)																	

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

VAL MARIE EVAPORATION STATION NO. 11EV063
Station Elevation: 600 m
2014

Date March	Penman Evaporation mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Period Evaporation Summations M	Penman Evaporation Date April mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Period Evaporation Summations M	Penman Evaporation Date May mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Period Evaporation Summations M	Penman Evaporation Date June mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Period Evaporation Summations M	Penman Evaporation Date July mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Period Evaporation Summations M
1	0.14	0	0.14	Eastend *	1	1.71	0	1.71	1	4.10	0	4.10	1	2.18	0	2.18	1	2.18	0	
2	0.19	0	0.19	Huff / Newton **	2	1.77	0	1.77	2	2.00	1.992	0.01	2	4.88	0	4.88	2	4.88	0	
3	-0.07	3	-3.07		3	2.35	0	2.35	3	2.64	0	2.64	3	5.38	1	4.37				
4	-0.10	0	-0.10		4	1.99	0	1.99	4	0.75	1.008	-0.26	4	4.32	0	4.32				
5	0.21	0	0.21		5	3.18	0	3.18	5	2.65	4.008	-1.36	5	2.72	0	2.72				
6	0.12	0	0.12		6	2.90	0	2.90	6	1.77	0	1.77	6	3.10	0	3.10				
7	0.14	0	0.14		7	3.34	0	3.34	7	3.87	0	3.87	7	3.98	1	2.97				
8	0.36	1.008	-0.64	-0.003 *	8	3.78	0	3.78	8	4.31	0	0.023 *	8	4.55	0	0.035 *				
9	1.75	0	1.75		9	2.86	0	2.86	9	3.87	0	3.87	9	4.39	4	0.39				
10	1.76	0	1.76		10	3.08	0	3.08	10	2.30	0	2.30	10	4.68	4	0.68				
11	2.00	0	2.00		11	1.32	0	1.32	11	4.11	0	4.11	11	2.87	0	2.87				
12	2.35	0	2.35	0.005 **	12	1.09	0	1.09	12	3.80	0	0.038 **	12	5.74	0	0.037 **				
13	1.42	0	1.42		13	2.01	0	2.01	13	4.28	0	4.28	13	2.08	32	-29.92				
14	2.20	0	2.20		14	2.43	0	2.43	14	4.39	0	4.39	14	1.74	1	0.73				
15	1.86	0	1.86		15	2.79	0	2.79	15	3.07	0	3.07	15	3.13	0	3.13				
16	2.92	0	2.92		16	0.97	0	0.97	16	2.11	0	2.11	16	2.24	0	2.24				
17	1.80	0	1.80		17	2.56	0	2.56	17	3.63	0	3.63	17	0.61	63	-62.39				
18	1.51	1.992	-0.48		18	2.07	1	2.07	18	2.85	1.992	0.86	18	3.03	15	-11.97				
19	2.09	0	2.09		19	3.31	0	3.31	19	3.26	1.992	1.26	19	3.66	4	-0.34				
20	1.29	0	1.29		20	3.88	0	3.88	20	3.55	0	3.55	20	6.10	0	6.10				
21	1.18	0	1.18		21	4.04	0	4.04	21	5.87	0	5.87	21	5.87	0	5.87				
22	0.79	0	0.79		22	4.78	0	4.78	22	5.26	0	5.26	22	6.76	0	6.76				
23	0.73	0	0.73		23	2.79	12	-9.21	23	6.91	0	6.91	23	4.13	1	3.13	-0.067 *			
24	1.22	0	1.22	0.025 *	24	3.92	0	3.92	24	6.81	0	6.81	24	3.71	0	3.71				
25	1.22	0	1.22		25	3.92	0	3.92	25	4.78	0	4.78	25	5.17	15	-9.83				
26	2.00	0	2.00		26	0.52	2	-1.47	26	5.62	7.008	-1.39	26	1.77	16	-14.23				
27	0.86	0	0.86		27	1.29	9	-7.71	27	6.66	0	6.66	27	3.36	0	3.36	-0.094 **			
28	1.67	0	1.67	0.023 **	28	1.86	0	1.86	28	6.20	7.982	-1.79	28	4.91	0	4.91				
29	1.40	0	1.40		29	2.31	0	2.31	29	5.28	7.008	-1.73	29	5.16	1	4.15				
30	0.47	0	0.47		30	4.71	0	4.71	30	5.92	1.008	4.91	30	3.15	7	-3.86				
31	1.81	0	1.81		31	1.81	0	1.81	31	1.81	7.008	-5.19	31	83.41	Total	115.37	165.1	Total	-49.70	
Total	37.29	6	31.29		Total	79.50	24	55.50	Total	124.43	41.016	83.41	Total	115.37						

Notes:
Division Period Evaporation Summations
* Eastend Reservoir
** Huff and Newton Reservoirs

..... Continued

VAL MARIE EVAPORATION STATION NO. 11EV063
 Station Elevation: 600 m
 2014

Date	Permanent Evaporation Pe mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe-TB ppt	Period Summations M	Permanent Evaporation Pe mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Period Summations M	Permanent Evaporation Pe mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Period Summations M	Penman Evaporation Pe mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Period Summations M	Penman Evaporation Pe mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Period Summations M	Penman Evaporation Pe mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Period Summations M	Penman Evaporation Pe mm	Tipping Bucket ppt mm	Net Reservoir Evaporation Pe - TB ppt	Period Summations M																																																																																																																													
1	5.01	0	6.49	Huff / Newton **	2	3.00	0	3.00	2	3.76	0	3.76	0	3	0.78	19.992	-19.21	3	3.70	4.992	-1.29	4	3.74	0	3.74	5	2.10	0	2.10	6	1.75	0	1.75	7	1.98	0	1.98	8	1.80	0	1.80	9	1.86	0	1.86	10	2.10	0	2.10	11	2.18	0	2.18	12	1.92	0	1.92	13	1.70	0	1.70	14	0.94	0	0.94	15	1.15	3	-1.85	16	0.61	6	-5.39	17	1.60	0	1.60	18	1.59	0	1.59	19	1.49	0	1.49	20	1.72	0	1.72	21	1.79	0	1.79	22	1.47	5	-3.53	23	0.69	0	0.69	24	1.56	0	1.56	25	1.22	0	1.22	26	1.28	0	1.28	27	0.31	1	-0.70	28	1.14	0	1.14	29	1.25	0	1.25	30	0.38	0	0.38	31	1.09	0	1.09	Total	170.57	30	140.57	Total	121.75	81	40.75	Total	77.07	33.984	Total	43.08	0	Total	45.40	15	Total	30.40	0

Notes:

Division Period Evaporation Summations

* Eastend Reservoir

** Huff and Newton Reservoirs

STORAGE FACTORS AND EVAPORATION LOSSES
2014

HUFF LAKE

11AC063

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	815.718	18665	0.005	9	2649	3568	928
2	815.668	19665	0.023	45	3568	3466	-57
3	815.748	19740	0.033	65	3466	3631	230
4	815.742	19925	0.017	34	3631	3618	22
5	815.925	20336	0.038	77	3618	4000	459
6	815.638	20110	0.056	113	4000	3406	-481
7	815.286	18610	0.037	68	3406	2755	-583
8	815.771	18916	-0.094	-177	2755	3679	747
9	815.775	20065	0.072	145	3679	3687	153
10	815.754	20025	0.055	111	3687	3643	67
11	815.753	19970	0.051	102	3643	3641	100
12	815.562	19490	0.004	8	3641	3258	-375
13	815.568	19060	0.000	-1	3258	3269	10
14	813.734	14357	0.042	60	3269	764	-2445
15	814.224	8717	0.028	24	764	1204	464
16	815.609	15985	0.005	8	1204	3348	2152

STORAGE FACTORS AND EVAPORATION LOSSES
2014

NEWTON LAKE

11AC056

PERIOD	ELEVATION At End of Period (m)	MEAN RESERVOIR SURFACE AREA (dam ²)	EVAPORATION		STORAGE AT		TOTAL CHANGE IN STORAGE (dam ³)
			Penman (m)	Reservoir (dam ³)	Beginning of Period (dam ³)	End of Period (dam ³)	
1	803.541	58278	0.005	28	10896	13880	3011
2	803.426	63132	0.023	144	13880	13153	-583
3	803.438	61936	0.033	205	13153	13228	279
4	803.302	60420	0.017	104	13228	12404	-719
5	803.315	58834	0.038	224	12404	12482	302
6	803.375	59770	0.056	336	12482	12841	695
7	802.765	53730	0.037	197	12841	9549	-3095
8	803.273	52761	-0.094	-494	9549	12237	2194
9	803.230	56990	0.072	411	11990	11990	411
10	803.252	57243	0.055	317	11990	12116	444
11	803.246	57427	0.051	294	12116	12082	259
12	803.165	56438	0.004	23	12082	11625	-434
13	803.151	55460	0.000	-3	11625	11547	-80
14	803.265	56484	0.042	238	11547	12191	881
15	803.072	55680	0.028	154	12191	11116	-922
16	803.070	53749	0.005	28	11116	11105	18

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK
June 4, 2015 15:28

HUFF LAKE GRAVITY CANAL
Station No.: 11AC065

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Discharge Units:		Cubic Metres Per Second Cubic Decametres
													Total Units:	11AC065	
1	---	---	0	0	0	1.062	0	0	0	0	0	0	---	---	1
2	---	---	0	0	0	1.010	0	0	0	0	0	0	---	---	2
3	---	---	0	0	0	1.041	0	0	0	0	0	0	---	---	3
4	---	---	0	0	0	1.058	0	0	0	0	0	0	---	---	4
5	---	---	0	0	0	0.989	0	0	0	0	0	0	---	---	5
6	---	---	0	0	0	0.641	0	0	0	0	0	0	---	---	6
7	---	---	0	0	0	0.624	0	0	0	0	0	0	---	---	7
8	---	---	0	0	0	0.593	0	0	0	0	0	0	---	---	8
9	---	---	0	0	0	0.340	0	0	0	0	0	0	---	---	9
10	---	---	0	0	0	0.310	0	0	0	0	0	0	---	---	10
11	---	---	0	0	0	0.033	0	0	0	0	0	0	---	---	11
12	---	---	0	0	0	0	0	0	0	0	0	0	---	---	12
13	---	---	0	0	0	0	0	0	0	0	0	0	---	---	13
14	---	---	0	0	0	0	0	0	0	0	0	0	---	---	14
15	---	---	0	0	0	0	0	0	0	0	0	0	---	---	15
16	---	---	0	0	0	0	0	0	0	0	0	0	---	---	16
17	---	---	0	0	0	0	0	0	0	0	0	0	---	---	17
18	---	---	0	0	0	0.040	0	0	0	0	0	0	---	---	18
19	---	---	0	0	0	1.011	0	0	0	0	0	0	---	---	19
20	---	---	0	0	0	1.109	0	0	0	0	0	0	---	---	20
21	---	---	0	0	0	1.118	0	0	0	0	0	0	---	---	21
22	---	---	0	0	0	1.118	0	0	0	0	0	0	---	---	22
23	---	---	0	0	0	1.136	0	0	0	0	0	0	---	---	23
24	---	---	0	0	0	1.088	0	0	0	0	0	0	---	---	24
25	---	---	0	0	0	1.092	0	0	0	0	0	0	---	---	25
26	---	---	0	0	0	1.173	0	0	0	0	0	0	---	---	26
27	---	---	0	0	0	1.287	0	0	0	0	0	0	---	---	27
28	---	---	0	0	0	1.270	0	0	0	0	0	0	---	---	28
29	---	---	0	0	0	1.179	0	0	0	0	0	0	---	---	29
30	---	---	0	0	0	1.096	0	0	0	0	0	0	---	---	30
31	---	---	0	0	0	1.081	0	0	0	0	0	0	---	---	31
Mean	---	---	0	0	0	0.477	0.257	0	0	0	0	0	---	---	---
Total	---	---	0	0	0	1278.551	665.374	0	0	0	0	0	---	---	---
Max (day)	---	---	0	0	0	1.364	1.247	0	0	0	0	0	---	---	---
Min (day)	---	---	1 00:00	1 00:00	26 18:15	5 09:45	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	0	---	---	---
A - Manual Gauge	B - Ice Conditions	C - Estimated	D - Dry												

Note: Report data computed manually and displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK
June 4, 2015 15:29

HUFF LAKE PUMPING CANAL
Station No.: 11Ac066

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Discharge Units: Total Units:	Cubic Metres Per Second Cubic Decimetres	Day
1	---	---	---	---	0	0.615	0	0	0	0	0	0	---	---	1
2	---	---	---	---	0	0.616	0	0	0	0	0	0	---	---	2
3	---	---	---	---	0	0.627	0	0	0	0	0	0	---	---	3
4	---	---	---	---	0	0.424	0	0	0	0	0	0	---	---	4
5	---	---	---	0	0.412	0	0	0	0	0	0	0	---	---	5
6	---	---	---	0	0	0.714	0	0	0	0	0	0	---	---	6
7	---	---	0	0	0	0.723	0	0	0	0	0	0	---	---	7
8	---	---	0	0	0	0.742	0	0	0	0	0	0	---	---	8
9	0	0	0	0	0	0.674	0	0	0	0	0	0	---	---	9
10	0	0	0	0	0	0.576	0	0	0	0	0	0	---	---	10
11	0	0	0	0	0	0.619	0	0	0	0	0	0	---	---	11
12	0	0	0	0	0	0.640	0	0	0	0	0	0	---	---	12
13	0	0	0	0	0	0.630	0	0	0	0	0	0	---	---	13
14	0	0	0	0	0	0.552	0	0	0	0	0	0	---	---	14
15	0	0	0	0	0	0	0	0	0	0	0	0	---	---	15
16	0	0	0	0	0	0	0	0	0	0	0	0	---	---	16
17	0	0	0	0	0	0	0	0	0	0	0	0	---	---	17
18	0	0	0	0	0	0	0	0	0	0	0	0	---	---	18
19	0	0	0	0	0	0	0	0	0	0	0	0	---	---	19
20	0	0	0.059	0	0	0	0	0	0	0	0	0	---	---	20
21	0	0	0.369	0	0	0	0	0	0	0	0	0	---	---	21
22	0	0	0.348	0	0	0	0	0	0	0	0	0	---	---	22
23	0	0	0.405	0	0	0	0	0	0	0	0	0	---	---	23
24	0	0	0.236	0	0	0	0	0	0	0	0	0	---	---	24
25	0	0	0.302	0	0	0	0	0	0	0	0	0	---	---	25
26	0	0	0.379	0	0	0	0	0	0	0	0	0	---	---	26
27	0	0	0.351	0	0	0	0	0	0	0	0	0	---	---	27
28	0	0	0.497	0	0	0	0	0	0	0	0	0	---	---	28
29	0	0	0.544	0	0	0	0	0	0	0	0	0	---	---	29
30	0	0	0.597	0	0	0	0	0	0	0	0	0	---	---	30
31	0	0	0.543	0	0	0	0	0	0	0	0	0	---	---	31
Mean	---	---	0.149	0.285	0	0	0	0	0	0	0	0	---	---	---
Total	---	---	400.032	739.894	0	0	0	0	0	0	0	0	---	---	---
Max	---	---	0.740	0.842	0	0	0	0	0	0	0	0	---	---	---
(day)			28 14:00	8 13:54	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---	---	---
Min	---	---	0	0	0	0	0	0	0	0	0	0	---	---	---
(day)			19 14:14	14 21:40	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---	---	---

A - Manual Gauge

B - Ice Conditions

E - Estimated

D - Dry

Note: Report data computed manually and displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK
June 4, 2015 15:30

Newton Lake Main Canal
Station No.: 11AC054

Discharge Units: Cubic Metres Per Second
Total Units: Cubic Decimetres

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	---	---	0	0	0	3.655	0	0	0	0	0	---	1
2	---	---	0	0	0	3.506	0	0	0	0	0	---	2
3	---	---	0	0	0	3.670	0	0	0	0	0	---	3
4	---	---	0	0	0	3.480	0	0	0	0	0	---	4
5	---	---	0	0	0	3.432	0	0	0	0	0	---	5
6	---	---	0	0	0	3.434	0	0	0	0	0	---	6
7	---	---	0	0	0	3.403	0	0	0	0	0	---	7
8	---	---	0	0	0	3.371	0	0	0	0	0	---	8
9	---	---	0	0	0	3.212	0	0	0	0	0	---	9
10	---	---	0	0	0	3.159	0	0	0	0	0	---	10
11	---	---	0	0	0	3.129	0	0	0	0	0	---	11
12	---	---	0	0	0	3.107	0	0	0	0	0	---	12
13	---	---	0	0	0	2.935	0	0	0	0	0	---	13
14	---	---	0	0	0	2.155	0	0	0	0	0	---	14
15	---	---	0	0	0	2.144	0	0	0	0	0	---	15
16	---	---	0	0	0	1.582	0	0	0	0	0	---	16
17	---	---	0	0	0	0.485	0	0	0	0	0	---	17
18	---	---	0	0	0	0	0	0	0	0	0	---	18
19	---	---	0	0	0	0	0	0	0	0	0	---	19
20	---	---	0	0	0	0	0	0	0	0	0	---	20
21	---	---	0	0	0	0	0	0	0	0	0	---	21
22	---	---	0	0	0	0	0	0	0	0	0	---	22
23	---	---	0	0	0	0	0	0	0	0	0	---	23
24	---	---	0	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	3.429	0	0	0	0	0	---	29
30	---	---	0	0	0	3.652	0	0	0	0	0	---	30
31	---	---	0	0	0	3.667	0	0	0	0	0	---	31
Mean	---	---	0	0	0	0.347	1.662	0	0	0	0	---	---
Total	---	---	0	0	0	928.659	4307.619	0	0	0	0	---	---
Max (day)	---	---	0	0	0	3.998	3.886	0	0	0	0	---	---
Min (day)	---	---	0	0	0	29 08:29	3 18:44	1 00:00	1 00:00	1 00:00	1 00:00	---	---
A - Manual Gauge	B - Ice Conditions	C - Estimated	D - Dry										

Note: Report data computed manually and displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES

FRENCHMAN RIVER BASIN
SURFACE WATER USE (MINOR DIVERSIONS) FOR 2014
(VOLUME IN CUBIC DECAMETERS)

File Number	March		April		May		June		July		August		September		
	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-31	1-15	16-30	Total
Minor Diversions Associated with Cypress Area															
65							54.3	62.6	37.6						154
70A			1.8	13.2	3.5										19
70B															0
80	28.8														29
93	28.8														29
121					10.3										10
122						4.1									0
123						24.7									4
124															25
129			17.0	5.7											23
334	47.3														47
335	9.0														9
369			6.2												6
379		0.8	2.1	1.2											4
411	34.9														35
989				4.9											5
1014															0
1589															0
2235			1.5	4.6											6
2236			1.0	3.1											4
2851			2.9	8.6											12
3635			4.9												5
3964		2.7	2.2												5
5525															0
5729															0
6339		1.6	2.5												4
7331			2.1												2
8201															0
9138			1.6												2
9139															0
9140			8.2												8
9450															0
9951			2.9												3
10156															0
10411	12.3														12
10804				16.4											16
10805				1.6											2
10836															0
10864															0
11974	53.0														53
11975	20.6														21
12232			13.0	1.4											14
14420							36.3								36
15596															0
15760															0
Sub-Total	0	234.8	6.9	57.9	56.8	56.8	54.3	98.9	37.6	0	0	0	0	0	604
Domestic Uses	0	105.6	3.1	26.1	25.5	25.6	24.4	44.5	16.9	0	0	0	0	0	272
Total	0	340	10	84	82	82	79	143	54	0	0	0	0	0	876

Domestic uses: 45% of Sub-Total

Continued ...

FRENCHMAN RIVER BASIN (continued)
SURFACE WATER USE (MINOR DIVERSIONS) FOR 2014
(VOLUME IN CUBIC DECAMETERS)

File Number	March		April		May		June		July		August		September		Total
	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-31	1-15	16-30	
Minor Diversions Associated with Eastend															
55					36.4										36
60															0
74															0
118							15.4								15
154															0
461															0
1289															0
2305															0
4579															0
4665															0
4848			3.0	3.3	3.5	1.3									11
4912		8.2													8
5235		33.3	9.5												43
5250				32.8	7.3										40
5278															0
5298			17.3												17
5493															0
6064		5.8	0.8												7
6432		6.2													6
7312															0
7682															0
8131															0
8632															0
8756			2.5												3
8901		12.3													12
9137															0
9490				18.9											19
9552			27.0	3.4											30
9592															0
9691		8.2													8
9957															0
10425															0
11409				6.7	5.2										12
11455				8.6	6.7										15
11864				2.3	1.8										4
12082				2.3	1.8										4
12207				0.5	0.4										1
12213				2.3	1.8										4
12400		12.3													12
12591															0
13524															0
15341				7.6	5.9										14
15342				13.3	10.3										24
15343				31.3	24.4										56
15535															0
15604				3.1	2.4										6
16625				17.3											17
16447															0
16666															0
16667			3.3												3
Sub-Total	12.3	77.3	57.1	6.4	186.6	71.4	16.7	0	0	0	0	0	0	0	428
Domestic Uses	5.6	34.8	25.7	2.9	84.0	32.1	7.5	0	0	0	0	0	0	0	193
Total	18	112	83	9	271	104	24	0	0	0	0	0	0	0	621

Domestic uses: 45% of Sub-Total

Continued ...

FRENCHMAN RIVER BASIN (continued)
SURFACE WATER USE (MINOR DIVERSIONS) FOR 2014
(VOLUME IN CUBIC DECAMETERS)

File Number	March		April		May		June		July		August		September		Total
	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-31	1-15	16-30	
Minor Diversions Associated with Val Marie Area															
479															0
507															0
657															0
992															0
1603															0
3929															0
4865															0
5002															0
5084															0
5085															0
5086															0
5871															0
7332															0
7645															0
7754															0
7778															0
7935															0
8322															0
8345															0
9481															0
9571															0
9596															0
10064															0
10962															0
11617															0
11618	6.2	6.2													12
15061		41.1													41
15388															0
15399															0
15400		49.3													49
15408															0
15413					10.0										10
15450															0
15487															0
15639	7.2	21.6													29
15706															0
15714															0
16545		18.9													19
V.M. Pump 1	0	0	0	0	0	195.0	68.0	0	0	0	98.0	0	0		361
V.M. Pump 2	0	0	0	0	0	17.0	17.0	0	0	0	0	0	0		34
Sub-Total	13.4	87.8	49.3	0	10.0	212.0	85.0	0	0	0	98.0	0	0		556
Domestic Uses	6.0	39.5	22.2	0	4.5	95.4	38.3	0	0	0	44.1	0	0		250
Total	19	127	72	0	15	307	123	0	0	0	142	0	0		805

Domestic uses: 45% of Sub-Total

Continued ...

FRENCHMAN RIVER BASIN (continued)
SURFACE WATER USE (MINOR DIVERSIONS) FOR 2014
(VOLUME IN CUBIC DECAMETRES)

File Number	March		April		May		June		July		August		September		Total
	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-30	1-15	16-31	1-15	16-31	1-15	16-30	
3694															0
4992															0
8855															0
8856															0
11447															0
11448															0
11449															0
11450															0
11451															0
11452															0
12253															0
12545															0
12546															0
12547															0
12599															0
12600															0
12670															0
Sub-Total	0	0	0												
Domestic Uses	0	0	0												
Total	0	0	0												

Domestic uses: 45% of Sub-Total

Minor Diversions Associated with Cypress Area															
	0	340	10	84	82	82	79	143	54	0	0	0	0	0	876
Minor Diversions Associated with Eastend Area															
	18	112	83	9	271	104	24	0	0	0	0	0	0	0	621
Minor Diversions Associated with Val Marie Area															
	19	127	72	0	15	307	123	0	0	0	0	0	142	0	805
Minor Diversions Associated with International Boundary Area															
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	37	579	165	93	368	493	226	143	54	0	0	142	0	0	2302

Water Rights Data supplied by Saskatchewan Water Security Agency.

There was no usage reported for periods 13 to 16 (September – October).

A 25 percent return flow factor was applied to Val Marie Pumps 1 and 2.

In 2005, the following licences in the Frenchman River basin were determined to be either abandoned, never active, located in Grasslands National Park, or located on non-contributing or back flood operation areas: 690, 943, 1691, 1992, 2154, 3057, 3284, 8696, 9076, 9219, 10659, 10853, 11142, 11237, 11372, 11431, 11608, 11835, 12647, 15402, 15406, 15416, and 15587.

TABLE 16
MONTH-END CONTENTS OF MAJOR RESERVOIRS IN LODGE CREEK, BATTLE CREEK AND FRENCHMAN RIVER BASINS FOR 2014
(QUANTITIES IN CUBIC DECAMETRES)

		Cypress Lake	Eastend Reservoir	Huff Lake	Newton Lake	(a) Combined Usable Storage	(a) Percent of Live Storage (a/b*100)
	Altawan Reservoir						
FEBRUARY	5,552	105,303	609	2,670	10,849	94,927	77
MARCH	6,994	111,603	2,591	3,470	12,769	107,371	87
APRIL	7,052	116,078	3,026	3,662	12,386	112,148	91
MAY	5,548	110,910	1,394	3,180	12,139	103,115	84
JUNE	5,499	112,365	2,334	3,496	11,921	105,559	86
JULY	4,944	110,633	2,189	3,774	12,231	103,715	84
AUGUST	5,231	111,926	1,798	3,284	11,547	103,730	84
SEPTEMBER	5,092	111,395	2,640	533	12,036	101,640	83
OCTOBER	4,978	109,917	615	3,087	11,110	99,651	81
Full Supply Level (FSL)	6,710	128,100	2,090	3,700	12,270		
Dead Storage	0	30,031	0	25	0		
Percentage of FSL on October 31	74	86	29	83	91		

Total storage at FSL: 152,870

Total dead storage: 30,056

Total available live storage with Cypress Lake included:
 Total available live storage without Cypress Lake included:

122,812 (b)
 24,743

Note: Cypress Lake was above the dead storage elevation and total lake contents were included in the calculations.

WATER SURVEY CANADA
Daily Mean Discharge Report for 2014
Regina, SK

October 30, 2015 09:16

LYONS CREEK AT INTERNATIONAL BOUNDARY
Station No.: 11AB075

Day	Discharge Units: Cubic Decametres											Day
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
1	---	---	0 B	0.006 B	0.001	0.001	0	0	0	0	0	---
2	---	---	0 B	0.005 B	0.002	0.001	0	0	0	0	0	2
3	---	---	0 B	0.005 B	0.002	0.001	0	0	0	0	0	3
4	---	---	0 B	0.004 E	0.002	0	0	0	0	0	0	4
5	---	---	0 B	0.004 E	0.002	0	0	0	0	0	0	5
6	---	---	0 B	0.004 E	0.002	0	0	0	0	0	0	6
7	---	---	0 B	0.003 E	0.002	0	0	0	0	0	0	7
8	---	---	0 B	0.003 E	0.002	0	0	0	0	0	0	8
9	---	---	0.526 B	0.003 E	0.002	0	0	0	0	0	0	9
10	---	---	0.958 B	0.003 E	0.001	0	0	0	0	0	0	10
11	---	---	0.550 B	0.003 E	0.002	0	0	0	0	0	0	11
12	---	---	0.872 B	0.003 E	0.002	0	0	0	0	0	0	12
13	---	---	0.654 B	0.003 E	0.001	0	0	0	0	0	0	13
14	---	---	0.670 B	0.003 E	0.001	0	0	0	0	0	0	14
15	---	---	0.452 B	0.003 E	0.001	0	0	0	0	0	0	15
16	---	---	0.377 B	0.002 E	0.001	0	0	0	0	0	0	16
17	---	---	0.255 B	0.002 E	0.001	0.001	0	0	0	0	0	17
18	---	---	0.166 B	0.002 E	0.001	0.001	0	0	0	0	0	18
19	---	---	0.102 B	0.002 E	0.001	0.001	0	0	0	0	0	19
20	---	---	0.048 B	0.002 E	0.002	0.001	0	0	0	0	0	20
21	---	---	0.027 B	0.002 E	0.002	0	0	0	0	0	0	21
22	---	---	0.020 B	0.002 E	0.001	0	0	0	0	0	0	22
23	---	---	0.016 B	0.002	0.001	0	0	0	0	0	0	23
24	---	---	0.013 B	0.002	0.001	0	0	0	0	0	0	24
25	---	---	0.011 B	0.001	0.001	0	0	0	0	0	0	25
26	---	---	0.010 B	0.002	0.001	0	0	0	0	0	0	26
27	---	---	0.009 B	0.002	0.001	0	0	0	0	0	0	27
28	---	---	0.008 B	0.002	0.001	0	0	0	0	0	0	28
29	---	---	0.007 B	0.001	0.001	0	0	0	0	0	0	29
30	---	---	0.007 B	0.001	0.001	0	0	0	0	0	0	30
31	---	---	0.006 B	0	0	0	0	0	0	0	0	31
Mean	---	---	0.186	0.003	0.001	0	0	0	0	0	0	---
Total	---	---	498.874	7.085	3.629	0.605	0	0	0	0	0	---
Max	---	---	2.040	0.006	0.004	0.002	0	0	0	0	0	---
(day)	---	---	9 19:05	1 00:00	24 09:05	17 12:45	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---
Min	---	---	0	0.001	0	0	0	0	0	0	0	---
(day)	---	---	1 00:00	24 22:10	27 19:30	2 16:45	1 00:00	1 00:00	1 00:00	1 00:00	1 00:00	---
A - Manual Gauge	B - Ice Conditions	C - Estimated	D - Dry									

Note: Report data from Aquarius 3.1.591 displayed in a modified format.

APPROVED BY THE FIELD REPRESENTATIVES OF CANADA AND THE UNITED STATES