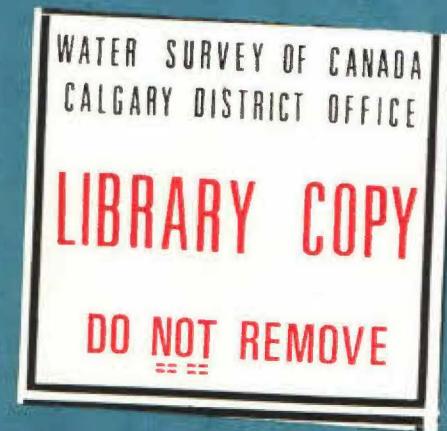


Report on
Division and Use of Water
of
St. Mary and Milk Rivers
1925



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REPORT TO
THE INTERNATIONAL JOINT COMMISSION

- 1925 -

REPORT TO THE INTERNATIONAL JOINT COMMISSION

- ON -

THE DIVISION AND USE MADE OF THE WATERS OF

ST. MARY AND MILK RIVERS.

- by -

J.T. JOHNSTON

representing Canada

-and-

KELWOOD HEAD

representing the United States.

The Honourable, the International Joint Commission,
Washington, D.C. and Ottawa, Canada.

Gentlemen:-

In compliance with the provisions of
Clause 10 of your order of the 4th of October, 1921,
directing the division of the waters of the St. Mary and
Milk rivers between the United States and Canada, we
are transmitting herewith a report on the operations
during the irrigation season 1925.

Respectfully submitted,

Accredited Irrigation Officer of His Majesty.

Accredited Reclamation Officer of the United States.

Date: 6th April, 1926.

INTRODUCTION

The field work in the division and administration of the waters of the St. Mary and Milk rivers in Alberta, Saskatchewan and Montana, during the irrigation season of 1925, was conducted by the same engineers as in previous years. Mr. Elwood Beat, Commissioner of the United States Bureau of Reclamation, as accredited officer for the United States, was represented in the field by members of his staff stationed at Malta, Montana. Mr. J.P. Johnston, Director, Dominion Water Power and Reclamation Service, as accredited officer for His Majesty, was represented by Mr. S.G. Dawson. The water of the two rivers was divided between the two countries in accordance with the order of the Commission dated in Ottawa, Canada, on the 6th day of October, 1921.

The hydrometric data, on which this report is based, were obtained in Montana, by engineers of the United States Geological Survey under the direct personal supervision of Mr. W.A. Lamb, District Engineer, Helena, Montana; while those from streams in Canada and Canadian cities were collected under the supervision of

the Commissioner of Irrigation, Dominion Water Power and Reclamation Service, Calgary, Alberta, International gauging stations were visited frequently by representatives of both countries.

A table showing the daily use made of the waters of St. Mary River was forwarded, weekly, to the manager of the United States Milk River project, to the Superintendent, Lethbridge Section, Canadian Pacific Railway Irrigation System, and to the Director, Dominion Water Power and Reclamation Service. As this table showed a computed natural flow of the St. Mary River at the boundary and the share of this flow to which each country was entitled, the engineers in the field kept constantly in touch with the conditions relative to the flow of the different streams affected by the treaty, the quantity of water stored or released from storage, and the quantity diverted by each country.

DIVISION OF WATER

As the loss between the intake on the United States St. Mary canal and the gauging station at the canal crossing of St. Mary River is assumed to return directly to the river and become available

to Canada, the diversion of canal water being used to the maximum quantity diverted from the river.

The St. Mary Canal then diverted 164,000 acre-feet during the period of its operation from the mouth of the headwater on 24th April to the closing for the season on 1st October.

During the season 60,000 acre-feet of the flow of Willow Creek was diverted in the Burne reservoir and used to augment the flow of St. Mary River during the period of low discharge.

As only 575 acre-feet were diverted from Milk River in Canada, the natural flow was delivered to the United States at Fort Macleod.

From the northern tributaries of Milk River, 27,796 acre-feet of the flow of Dove Creek, 32,119 acre-feet of Battle Creek, 35,325 acre-feet of Frenchman River and 40,017 acre-feet of Rock Creek crossed the international border into Montana.

The Alberta railway and irrigation company's canal, now controlled and maintained by the Canadian Pacific Railway, diverted 161,400 acre-feet from the St. Mary River at Pincher during the period of operation from the 2d to 30th October.

There was an average diversion from

Lodge and Battle creeks and Frenchman river but no diversion from Rock and Whitewater creeks in Canada during the irrigation season of 1925.

The proper share of St. Mary river to each country as defined by your order of the 4th October, 1921 was determined by making current meter measurements of the discharge of the headwaters of St. Mary river, computing the inflow to and measuring the outflow from the Sherburne reservoir, the quantity diverted by the St. Mary Canal, and the amount delivered to Canada at the boundary. From these measurements and calculations the natural flow of St. Mary river was computed and the share to which each country was entitled determined on the following basis:-

- (1) When the natural flow of St. Mary river was less than 666 cubic feet per second, Canada was entitled to three quarters of that flow and the United States to one quarter.
- (2) When the natural flow was greater than 666 cubic feet per second, Canada was entitled to 500 cubic feet per second, plus one-half of the increase over 666 cubic feet per second and the United States entitled to the remainder.

WATER SUPPLY:

The precipitation on the drainage basins of St. Mary and Milk rivers during the winter 1924-25

was considerably above the average indicating that the seasonal runoff of the streams would be above normal.

The annual survey of the water conditions on the headwaters of the St. Mary River, determined that the snow accumulated on the drainage basin was above the average. As a result the seasonal flow of the river was 100% in excess of the average run-off.

The inflow to all river from the northern tributaries was much above the average flow. In the Lodge creek basin the season's flow of 48,541 acre-feet was above the average of the 14 years record. 94% of the flow occurred during April and May. In Battle Creek the seasonal flow of 43,879 acre-feet was 115% of the average while the flow of Frenchman river was 136% of normal.

The winter flow of Swiftcurrent, Canyon and other creeks above Sherburne was impounded in Sherburne Reservoir and storage of these waters continued during different periods until July 26th when 60,300 acre-feet were held. This water was used to augment the flow of St. Mary river during August and September. The reservoir was emptied by October 24th.

All international gauging stations previously used in the determination of the daily flow of the

streams in the St. Mary and Milk River basins were maintained and operated under the joint supervision of the field engineers.

Canada maintained the same stations as in previous years on the international waters and canals in Canada diverting therefrom.

An appendix to this report gives the results of current meter measurements, the daily stage height and discharge at all the ranking stations operated in the two drainage basins during 1926.

DESCRIPTION OF TABLES

The tables following have been prepared to summarize the data on the division and use made of the water of the two basins.

Table No.1 shows the method of determining the natural flow of the St. Mary river during the irrigation season, the water available for use and diverted by the United States and the water available for use and diverted by Canada.

There are four sheets for each month in this table. Sheet No.1, (water stored or released from Thérburne reservoir) shows the daily inflow and outflow of Thérburne reservoir, the difference gives the quantity of water stored

or released from storage. On this sheet the unrecorded inflow is determined by comparison with the recorded flows of Swiftcurrent and Canyon Creeks and by use of the storage curve of Liburne reservoir to give the gain or loss in storage. This estimate is put in the column headed "unrecorded inflow". This sheet is omitted for month of April, and unfinished for October as the records are incomplete during these months.

Sheet No. 2, (determination of natural flow of St. Mary River) shows the quantity of water diverted, stored or released from storage by the United States and the natural flow of St. Mary river which would occur the international boundary if undisturbed. Two days has been estimated as the time for stored water released at Liburne to reach the boundary and this lag has been applied on this sheet.

Sheet No. 3, (water available and used by the United States) shows the water available for use by the United States, the water diverted and the excess or deficiency of this quantity over the amount available.

Sheet No. 4, (water available for use and used by Canada) shows the natural flow of St. Mary river at Kimball, which is near the crossing of the international boundary, Canada's share under the order of the Commission, the actual discharge of the river at Kimball which is the

quantity available for use by Canada, the quantity used by
Russia and the excess or deficiency of the quantity received
by Canada as compared with her share.

In consideration of Table No. 1, it would appear that
except for a short period each country received the share to
which it was entitled.

Table No. 2 is the statement showing the
quantity of water taken in each month by each country and
the quantity thereof applied to the land; the quantity of
water diverted from the St. Lawrence river and stored or held
back by either country; this table also shows the water
available, diverted, stored or applied and the loss in canals
and reservoirs.

Table No. 3, gives the available data on
divertions from the principal northern tributaries of the
river and the streams which cross the boundary into the
United States.

TABLE NO. 1

DIVISION OF AREA OF ST. MARY RIVER

1925

INVESTIGATION OF HATCHED FLOT OF ST. MARY RIVER
April - 1925

	St.Mary River:Diverted by:Stored by:	Total in:	Stored water :	Natural flow
Day:	at Kimball : E.c.f.t. : W.c.f.t.:	Sec.Ft.:	released :	St.Mary River
1	406	0	200	606
2	411		224	635
3	446		240	586
4	501		240	741
5	475		240	716
6	319		240	529
7	458		240	690
8	501		260	761
9	534		260	794
10	570		260	930
11	758		260	1028
12	935		260	1195
13	1040		280	1320
14	1110		280	1390
15	1180		280	1460
16	1270		280	1550
17	1340		280	1670
18	1440		280	1720
19	1430		280	1710
20	1430		282	1712
21	1470		282	1772
22	1500		282	1782
23	1530		282	1812
24	1470		282	1752
25	1550		282	1542
26	1270	10	282	1562
27	1210	30	277	1517
28	1140	50	277	1467
29	1120	70	277	1467
30	1040	90	277	1436
Total Rec.Ft.	29935	259	7966	38160
Mean	998	52	265	1272
Total Ac.Ft.	59385	515	15769	75689

DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR USE AND USED BY U.S.A.
April - 1925

DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR USE AND USED BY CANADA
APRIL - 1925.

Day	of	Natural flow St. Mary R.	Canada's Share	S t. Mary R. at Kimball	Diverted by Canada	Excess of share	Deficiency Delivered
1		606	454	406		48	
2		635	476	411		65	
3		686	510	446		64	
4		741	537	501		36	
5		716	525	476		49	
6		629	472	389		83	
7		698	516	458		58	
8		751	547	501		46	
9		794	564	534		30	
10		930	632	670	38		
11		1028	681	768	87		
12		1195	765	935	170		
13		1320	827	1040	213		
14		1390	862	1110	240		
15		1460	897	1180	283		
16		1550	942	1270	328		
17		1670	1002	1390	388		
18		1720	1027	1440	412		
19		1710	1022	1430	408		
20		1712	1023	1430	407		
21		1772	1053	1490	437		
22		1782	1058	1500	442		
23		1812	1073	1530	457		
24		1752	1043	1470	427		
25		1642	958	1366	372		
26		1562	948	1270	322		
27		1517	926	1210	284		
28		1467	900	1140	240		
29		1467	900	1120	220		
30		1436	885	1060	175		
Total		38160	24055	29935	6359	479	
Mean		1272	802	998	212	16	
Total		75689	47722	59385	12615	952	

DETERMINATION OF NATURAL FLOW OF ST. MARY RIVER
FLOWING OUT OR RELEASED FROM GREENBUSH RESERVOIR
May - 1945

Day	INFLOW INTO GREENBUSH RESERVOIR			Outflow		
	Recorded		Unrecorded	Total	Swiftcurrent	Stored
	Swiftcurrent	Canyon	Inflow	at Sherbourne	Released	
1	183	40	76	299	30	263
2	263	45	95	409	30	379
3	285	50	95	431	30	401
4	281	50	94	425	30	395
5	291	51	96	440	30	410
6	341	24	112	507	256	251
7	396	53	126	577	676	101
8	359	52	117	527	676	151
9	301	47	77	447	674	227
10	265	42	66	375	571	276
11	265	49	90	404	657	263
12	375	53	122	550	485	65
13	559	54	175	786	12	775
14	735	60	227	1022	12	1011
15	778	65	240	1083	12	1071
16	695	69	218	902	34	948
17	597	74	130	851	195	666
18	749	76	250	1075	292	783
19	965	82	459	1506	46	1460
20	975	88	465	1529	55	1474
21	946	89	406	1421	58	1363
22	1030	89	447	1566	396	1170
23	258	95	421	1474	559	615
24	656	97	373	1306	755	541
25	731	89	328	1148	925	223
26	631	78	290	999	920	79
27	598	51	270	949	121	20
28	559	93	290	1042	945	117
29	624	104	261	909	922	60
30	589	98	221	908	936	
31	554	75	170	799	938	139
Total Sec.Ft.	17799	2142	6917	6656	15299	14747
Mean	574	69	223	866	429	476
Total Ac.Ft.	35294	4243	13712	53249	26378	29249
						2362

DETERMINATION OF NATURAL FLOW OF ST. MARY RIVER
May - 1925

	St.Mary River	Diverted by	Stored by	Total in	Stored water	Natural flow
Day:	at Almali	U.S.A.	U.S.A.	Sec.ft.	Relocated	St.Mary River

1	1110	37	277	1404	0	1484
2	1040	106	350	1504		1504
3	1050	193	269	1512		1512
4	1070	240	379	1589		1589
5	1120	246	401	1757		1757
6	1160	262	595	1817		1817
7	1430	297	410	137		2137
8	1700	302	451	2223		2253
9	1750	333	-	1036	101	1985
10	1810	341	-	1151	151	2000
11	1800	341	-	2141	227	1914
12	1810	353	-	2103	47	1887
13	1780	361	-	2161	263	1898
14	1840	387	65	2292		2292
15	2000	392	775	3168		3158
16	2180	390	1011	3561		3551
17	2250	389	10/1	3740		3740
18	2530	390	940	3618		3668
19	2650	392	666	3918		3918
20	3110	394	743	4267		4267
21	3400	394	1460	5254		5254
22	3770	394	1474	5338		5338
23	4440	394	1363	5157		5197
24	4760	397	1170	5349		5349
25	4760	421	615	5294		5295
26	4640	425	541	5606		5606
27	4350	430	223	5003		5003
28	4070	456	79	4612		4612
29	4090	469	20	4599		4599
30	4150	493	117	4750		4750
31	4050	495	60	4585		4585

Total Sec.Ft.	81910	11029	15352	106321	1018	107303
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Mean	2642	356	495	3494	33	3451
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Total Ac.Ft.	162450	21890	30498	214638	2029	212869
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DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR USE AND USED BY U.S.A.
May - 1925

	Natural flow: Available for use by U.S.A.	Used by U.S.A.	Excess:Deficit
Day:	St. Mary R. :U.S. :Stored Water; Total	:Diverted:Stored:Total:	:ency
	: at Kimball :Shares: Released. :	:	: Of Share Used
1	1484	575	575 97 277 374 0 201
2	1504	585	585 106 358 464 121
3	1512	569	569 193 269 462 127
4	1609	677	677 240 370 619 58
5	1767	717	717 246 401 647 70
6	1817	742	742 262 395 657 85
7	2137	902	902 297 410 707 195
8	2253	960	960 302 251 553 407
9	1985	826	826 101 927 336 336 591
10	2000	833	833 151 984 341 341 643
11	1914	790	790 227 1017 341 341 676
12	1807	777	777 276 1053 353 353 700
13	1898	782	782 263 1045 381 381 664
14	2292	979	979 387 65 452 527
15	3168	1417	1417 392 776 1168 249
16	3581	1623	1623 390 1011 1401 222
17	3740	1703	1703 389 1071 1460 243
18	3668	1767	1767 390 948 1338 429
19	3918	1792	1792 392 666 1058 734
20	4287	1976	1976 394 783 1177 799
21	5254	2460	2460 394 1460 1854 606
22	5638	2652	2652 394 1474 1668 784
23	5197	2931	2931 394 1363 1757 1174
24	6349	3007	3007 399 1170 1569 1438
25	5996	2631	2631 421 815 1236 1595
26	5605	2636	2636 425 541 966 1670
27	5003	2335	2335 430 223 653 1682
28	4615	2140	2140 466 79 545 1595
29	4599	2132	2132 489 40 509 1623
30	4760	2213	2213 493 117 610 1603
31	4585	2125	2125 495 60 555 1570
Total Sec.Ft.	107303	48474	1018 49492 11029 15382 26411 0 23081
Mean	3461	1564	33 1597 356 496 852 0 745
Total Ac.Ft.	212809	96167	2029 98196 21390 30498 52388 0 45806

DIVISION OF WATER OF ST. MARY RIVER.
WATER AVAILABLE FOR USE AND USED BY U.S. RADA
MAY - 1925.

Day	Natural flow: St. Mary R. at Kimball	Canada's Share.	St. Mary R.: at Kimball	Diverted: by Canada	Excess: of share delivered	Deficiency: or deficiency of share during day.
1	1484	909	1110	-	201	
2	1504	919	1040	-	121	
3	1512	923	1050	16	127	
4	1689	1012	1070	83	58	
5	1767	1050	1120	117	70	
6	1817	1075	1160	145	85	
7	2137	1235	1430	204	195	
8	2253	1293	1700	269	407	
9	1985	1159	1750	297	591	
10	2000	1167	1810	271	643	
11	1914	1124	1800	312	676	
12	1887	1110	1810	344	700	
13	1896	1116	1780	400	664	
14	2292	1313	1840	388	527	
15	3168	1751	2000	382	249	
16	3581	1958	2180	462	222	
17	3740	2037	2280	529	243	
18	3868	2101	2530	538	429	
19	3918	2126	2860	563	734	
20	4287	2311	3110	561	799	
21	1254	2794	3400	566	606	
22	5638	2986	3770	559	784	
23	6197	3466	4440	563	1174	
24	6349	3342	4780	536	1438	
25	9996	3165	4760	592	1595	
26	5606	2970	4640	645	1670	
27	5003	2668	4350	722	1682	
28	4615	2475	4070	752	1595	
29	4599	2467	4090	840	1623	
30	4760	2547	4150	835	1603	
31	4585	2460	4030	827	1570	
Total						
Sec.ft.	107303	58829	81910	13326	23081	
Mean	3461	1897 ^b	2642	444	745	
Total						
Ac.ft.	212809	116642	162450	26420	45808	

DETERMINATION OF NATURAL FLOW OF ST. MARY RIVER
WATER STORED OR RELEASED FROM SHERBURN RESERVOIR
June - 1925.

Day :	INFLOW INTO SHERBURN RESERVOIR			Outflow			Released
	Recorded		Unrecorded	Total	Swiftcurrent	Stored	
	Swiftcurrent	Canyon	Inflow		at Sherburne	at Sherburne	
1	519	66	129	714	934		220
2	484	62	111	657	934		277
3	450	65	105	620	903		283
4	452	75	104	631	778		147
5	479	62	114	555	719		64
6	396	56	92	544	540	4	
7	399	57	93	549	254	295	
8	436	64	101	601	259	342	
9	479	66	112	657	376	281	
10	522	72	120	714	635	79	
11	549	76	115	740	700	40	
12	570	81	107	758	696	62	
13	611	86	115	812	696	116	
14	614	91	116	821	696	125	
15	597	95	114	805	776	30	
16	597	100	126	823	823		
17	638	104	122	864	831	33	
18	679	110	130	919	873	46	
19	768	121	140	1029	645	161	
20	760	123	140	1023	860	163	
21	782	127	150	1059	964	95	
22	792	127	151	1070	1050	20	
23	760	115	144	1019	1080		61
24	685	104	130	919	1060		141
25	634	97	108	839	942		103
26	624	97	83	804	869		65
27	641	96	80	819	656	163	
28	634	100	75	609	594	215	
29	655	102	72	829	603	226	
30	600	93	50	743	612	131	
Total Sec.Ft.	17306	2692	3349	23847	22561	2647	1361
Mean	594	90	110	769	752	85	44
Total Ac.Ft.	35345	5355	6511	47211	44747	5082	2618

DETERMINATION OF NATURAL FLOW OF ST. MARY RIVER
June - 1925

	Day:	St.Mary River: Diverted by: U.S.R.R.	Stored by: U.S.P.S.: Sec.Ft.:	Total in: Dec.Ft.:	Released : St. Mary River	Natural flow
1		3660	493	4353	31	4322
2		3610	493	4103	139	3964
3		3520	489	3809	220	3569
4		3220	485	3705	277	3428
5		3030	483	3513	283	3230
6		2810	495	3305	147	3158
7		2430	491	2921	64	2857
8		2130	491	2625		2525
9		1990	487	2772		2772
10		2080	489	2911		2911
11		2240	489	3010		3010
12		2380	487	2946		2946
13		2460	491	2991		2991
14		2640	495	3197		3197
15		2640	489	3245		3245
16		2670	491	3286		3286
17		2740	493	3263		3263
18		2810	496	3306		3306
19		2980	488	3511		3511
20		3150	502	3698		3696
21		3320	506	4007		4007
22		3580	506	4249		4249
23		3600	496	4391		4391
24		3820	495	4335		4335
25		3730	493	4223	61	4162
26		3630	493	4123	141	3982
27		3420	498	3912	103	3815
28		3220	500	3720	65	3655
29		3070	500	3733		3733
30		3000	500	3715		3715
	Total Sec.Ft.	69700	14814	2290	106884	105353
	Mean	2993	494	76	3563	3512
	Total Ac.Ft.	178075	29395	4522	212913	208973

DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR USE AND USED BY U.S.A.
June - 1925

	Natural Flow: AVAILABLE FOR USE BY U.S.A.		USED BY U.S.A.		Excess:Deficit				
Day:	St. Mary R.		U.S. Stored Water		Diverted		Total		
	at Kimball	Share	Released				Of Share Used		
1	4322	1994	31	2025	493	493	0	1532	
2	3964	1815	139	1954	493	493	0	1461	
3	3589	1627	220	1847	489	499	0	1358	
4	3428	1547	277	1824	485	485	0	1339	
5	3250	1448	283	1731	483	483	0	1246	
6	3158	1412	147	1559	495	495	0	1064	
7	2857	1262	64	1326	491	491	0	835	
8	2625	1145		1145	491	495	0	650	
9	2772	1219		1219	487	295	782	437	
10	2911	1288		1288	499	342	831	457	
11	3010	1338		1338	489	281	770	563	
12	2946	1305		1305	487	79	566	740	
13	2991	1328		1328	491	40	531	797	
14	3197	1432		1432	495	62	557	875	
15	3245	1455		1455	489	116	605	850	
16	3286	1476		1476	491	125	616	860	
17	3263	1464		1464	493	30	523	941	
18	3306	1486		1486	495		496	990	
19	3511	1588		1588	498	33	531	1057	
20	3698	1682		1682	502	46	548	1134	
21	4007	1836		1836	505	181	687	1149	
22	4249	1950		1950	506	163	669	1289	
23	4391	2028		2028	496	95	591	1437	
24	4335	2030		2000	495	20	515	1485	
25	4162	1914	61	1975	493		493	1482	
26	3982	1824	141	1965	493		493	1472	
27	3815	1740	103	1843	472		472	1345	
28	3652	1651	65	1726	500		500	1226	
29	3733	1690		1699	500	163	663	1036	
30	3719	1670		1690	500	215	715	975	
Total Acc.Ft.	105353	47662	1531	49193	14814	2290	17104	0	32089
Mean	3512	1589	51	1640	494	76	570	0	1070
Total Ac.Ft.	200978	94536	3035	97571	29395	4522	33917	0	63654

DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR USE AND USED BY CANADA
JUNE 1925.

	Natural flow : Canada's	St. Mary R.: Diverted :	Day: St. Mary R. : share : at Kimball :	by Kimball : Excess Canada : Deficiency	of Share Delivered.
1	4322	2326	3860	821	1532
2	3964	2149	3610	835	1461
3	3589	1962	3320	832	1358
4	3428	1881	3220	811	1339
5	3230	1782	3030	840	1248
6	3158	1746	2810	832	1064
7	2957	1595	2430	827	835
8	2625	1480	2130	838	650
9	2772	1553	1990	862	437
10	2911	1623	2080	848	457
11	3010	1672	2240	873	568
12	2946	1640	2380	873	740
13	2991	1663	2460	848	757
14	2197	1765	2640	764	875
15	3245	1790	2640	697	850
16	3286	1810	2670	790	860
17	3263	1799	2740	764	941
18	3306	1820	2810	774	990
19	3511	1923	2980	782	1057
20	3698	2016	3150	782	1134
21	4007	2171	3320	790	1149
22	4249	2291	3580	787	1289
23	4391	2363	3800	761	1429
24	4335	2335	3820	742	1485
25	4162	2248	3730	761	1482
26	3982	2158	3630	759	1472
27	3815	2075	3420	761	1345
28	3655	1994	3220	774	1246
29	3733	2034	3070	752	1076
30	3715	2025	3000	767	975
Total					
sec.ft.	105353	57691	89780	23947	32089
Mean	3512	1923	2993	798	1070
Total					
sec.ft.	208978	114442	178096	47484	63654

No deficiency on day

DETERMINATION OF NATURAL FLOW OF ST. MARY RIVER
WATER STORED OR RELEASED FROM SHERBURNE RESERVOIR
July - 1925

Day :	INLET INTO SHERBURNE RESERVOIR			Outflow :	Swiftcurrent : at Sherburne :	Released
	Recorded	Unrecorded	Total			
	Swiftcurrent	Canyon	Inflow			
1	560	91	30	681	616	65
2	519	64	43	625	519	7
3	439	70	22	531	514	17
4	426	72	25	523	411	112
5	439	73	30	542	304	238
6	413	66	35	514	305	205
7	374	61	34	469	261	208
8	332	52	30	414	192	222
9	326	50	30	406	192	214
10	354	56	32	442	160	282
11	380	60	35	475	2	473
12	374	59	34	467	2	465
13	361	57	33	451	2	449
14	354	56	32	442	2	440
15	342	53	31	426	147	279
16	316	40	29	393	236	157
17	303	49	28	380	235	144
18	316	50	29	395	238	157
19	281	41	25	347	240	107
20	238	35	22	295	277	18
21	204	31	19	254	374	120
22	201	31	18	250	374	124
23	204	31	19	254	386	132
24	192	30	18	240	424	184
25	189	30	17	236	422	186
26	204	32	19	255	422	167
27	207	32	19	258	424	165
28	210	33	19	262	422	160
29	219	33	20	272	474	202
30	210	31	19	260	468	228
31	201	30	21	252	485	233
Total Sec.Ft.	9688	1527	797	12012	9655	4259
Mean	313	49.3	25.7	386	311	138
Total Ac.Ft.	19246	3031	1549	23826	19123	8485
						3751

DETERMINATION OF NATURAL FLOW OF ST. MARY RIVER
July - 1925

	St. Mary River	Diverted by:	Stored by:	Total in:	Stored water:	Natural flow
Day:	at Kimball : U.S.A.	: U.S.A.:	Sec.ft.:	Released	at St. Mary River	
1	2860	498	226	3604	0	3604
2	2770	495	131	3396		3396
3	2620	485	65	3170		3170
4	2400	478	7	2885		2885
5	2130	465	17	2632		2632
6	1940	496	112	2548		2548
7	1810	496	438	2544		2544
8	1670	496	205	2371		2371
9	1490	493	206	2191		2191
10	1350	469	222	2061		2061
11	1430	485	214	1929		1929
12	1120	487	282	1889		1889
13	1050	483	473	2006		2006
14	980	481	445	1926		1926
15	926	463	449	1858		1858
16	971	483	440	1894		1894
17	998	485	279	1762		1762
18	960	481	157	1618		1618
19	962	469	144	1595		1595
20	890	500	157	1547		1547
21	850	508	107	1465		1465
22	850	508	10	1376		1376
23	865	512		1378	120	1258
24	834	513		1350	124	1226
25	803	517		1340	132	1188
26	803	516		1319	184	1135
27	761	517		1270	166	1092
28	747	515		1163	167	1096
29	810	517		1327	166	1161
30	803	514		1317	160	1157
31	782	510		1292	202	1090
Total Sec.Ft.	40076	15419	4616	60111	1441	58670
Mean	1293	497	149	1939	47	1892
Total Ac.Ft.	79504	30559	9162	119225	2859	116386

DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR USE AND USED BY U.S.A.

	Natural Flow: Available for use by U.S.A.		Used by U.S.A.		Excess: Deficit				
Day:	St. Mary R.	U.S.	Stored Water: Total	Diverted	Stored	Total	ency		
	at Kimball	Share	Released				of share used		
1	3604	1635		1635	498	226	724	911	
2	3396	1531		1531	495	131	626	905	
3	3170	1418		1418	485	65	550	568	
4	2835	1275		1275	478	7	485	790	
5	2632	1149		1149	485	17	502	647	
6	2548	1107		1107	496	112	608	499	
7	2544	1105		1105	496	238	734	371	
8	2371	1018		1018	496	205	701	317	
9	2191	928		928	493	206	701	227	
10	2051	863		863	489	222	711	152	
11	1929	797		797	485	214	693	98	
12	1889	777		777	487	282	769	8	
13	2006	636		836	483	473	956	120	
14	1926	796		796	481	465	946	150	
15	1858	762		762	483	449	932	170	
16	1894	750		750	483	440	923	143	
17	1762	714		714	485	279	764	50	
18	1618	642		642	481	157	638	4	
19	1595	630		630	489	144	633	3	
20	1547	606		606	500	157	657	51	
21	1435	585		585	508	107	615	50	
22	1376	581		581	508	16	526	5	
23	1258	462	120	582	512		512	70	
24	1226	446	124	570	516		516	54	
25	1186	427	132	559	517		517	42	
26	1135	400	184	584	516		516	68	
27	1092	379	186	565	517		517	48	
28	1096	381	167	546	516		516	32	
29	1152	413	166	579	517		517	32	
30	1157	411	150	571	514		514	57	
31	1090	378	202	560	510		510	70	
Total Sec.Ft.	58670	24152	1441	25593	15419	4616	20935	742	6300
Mean	1852	779	46	825	497	149	646	24	203
Total Ac.Yd.	116366	47305	2050	50755	30559	9162	39721	1475	12509

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DIVISION OF WATER OF ST MARY RIVER
WATER AVAILABLE FOR USE AND USED BY CANADA
JULY - 1925

Day	: Natural flow : Canada's : St. Mary R.: Diverted by: Excess: Deficiency
	St. Mary R.: Share : at : Canada : : :
	at Kimball : Kimball : : of share delivered
1	3604 1969 2880 744 911
2	3396 1865 2770 739 905
3	3170 1752 2620 739 868
4	2885 1610 2400 746 790
5	2632 1483 2130 749 647
6	2548 1441 1940 729 499
7	2544 1439 1810 712 371
8	2371 1353 1670 729 317
9	2191 1263 1490 719 227
10	2061 1198 1350 702 152
11	1929 1132 1230 696 98
12	1889 1112 1120 722 8
13	2006 1170 1050 744 120
14	1926 1130 980 749 150
15	1858 1096 926 749 170
16	1894 1114 971 782 143
17	1762 1048 998 798 50
18	1618 976 980 798 4
19	1595 965 962 785 3
20	1547 941 890 736 51
21	1465 900 850 714 50
22	1376 855 850 702 5
23	1258 796 866 696 70
24	1226 780 834 682 54
25	1188 761 803 669 42
26	1135 735 803 657 68
27	1092 713 761 633 48
28	1096 715 747 609 32
29	1161 748 810 625 62
30	1157 746 803 563 57
31	1090 712 782 654 70
Total	
Sec.ft.	58670 34518 40076 22071 6300 742
Mean	1892 1113 1293 712 203 24
Total	
Ac.ft.	116366 68461 79504 43779 12509 1475

DETERMINATION OF NATURAL FLOW OF ST. MARY RIVER
WATER STORED OR PALEAGED FROM SHERBURNE RESERVOIR
August - 1925

Day	INFLOW INTO SWIFTCURRENT RESERVOIR			Outflow			No water stored during August
	Recorded		Unrecorded	Total	Swiftcurrent	Stored	
	Swiftcurrent	Canyon	Inflow		at Sherburne	:	:
1	192	30	26	248	480	0	232
2	192	30	26	248	474	0	226
3	195	30	26	251	468	0	217
4	189	28	25	242	463	0	221
5	179	25	25	229	463	0	234
6	163	25	23	211	488	0	277
7	160	24	22	206	503	0	297
8	154	23	22	199	514	0	315
9	146	22	20	188	566	0	378
10	137	21	19	177	559	0	382
11	128	21	18	167	553	0	386
12	114	19	16	149	544	0	395
13	109	19	16	144	556	0	412
14	112	19	16	147	584	0	437
15	186	20	30	244	609	0	365
16	250	33	45	328	590	0	262
17	204	20	41	273	566	0	293
18	169	25	34	228	559	0	331
19	154	24	32	210	557	0	347
20	151	24	30	205	553	0	348
21	160	25	32	217	544	0	327
22	151	24	30	205	541	0	336
23	142	22	28	192	535	0	343
24	133	24	27	184	532	0	348
25	123	22	25	170	526	0	356
26	114	21	20	163	523	0	360
27	106	20	27	153	514	0	361
28	102	19	26	147	535	0	388
29	102	17	26	145	557	0	414
30	102	16	26	144	578	0	434
31	99	15	25	139	572	0	433
Total Sec.Ft.	4618	723	812	6153	16608	0	10455
Mean	149	23.3	26.2	199	536	0	337
Total Ac.Ft.	9152	1432	1611	12205	32957	0	20752

DETERMINATION OF NATURAL FLOW OF ST. MARY RIVER
August - 1925

	St. Mary River: Diverted by: Stored by: Total in: Stored water : Natural flow	Day: at Kimball : U.S.R.S. + U.S.R.S.: Sec.ft.: Released : St. Mary River
1	768	510
2	747	508
3	733	510
4	712	508
5	684	508
6	649	510
7	642	508
8	635	510
9	628	510
10	514	514
11	588	516
12	576	514
13	552	514
14	540	514
15	670	516
16	733	510
17	549	498
18	626	498
19	697	523
20	582	525
21	514	506
22	834	317
23	1050	119
24	1210	45
25	733	359
26	614	457
27	504	502
28	462	521
29	450	521
30	468	514
31	1110	
Total Sec.ft.	20986	14035
Mean	677	454
Total Ac.ft.	41527	27915
	0	0
	35671	10049
	1131	324
	69542	19922
		49620

DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR U.S.A. AND USED BY U.S.A.
Aug 1975

	Natural Flow: Available for Use by U.S.A.	Used by U.S.A.	Excess/Deficit
Day:	St. Mary R. : U.S. : Stored Water: Total	Diverted: Stored: Total	Emergency
	: at Kimball : Share: Released :	:	of Share Used
1	1050	358	228
2	1022	344	233
3	1011	338	232
4	994	330	226
5	975	320	217
6	938	302	221
7	915	291	234
8	868	267	277
9	841	253	297
10	813	232	315
11	726	196	376
12	708	167	362
13	650	173	386
14	659	165	395
15	774	220	412
16	806	236	437
17	782	224	365
18	864	265	262
19	837	251	293
20	776	221	331
21	773	219	347
22	803	234	348
23	842	254	327
24	919	292	335
25	749	207	343
26	723	194	348
27	650	162	356
28	623	156	360
29	610	152	361
30	594	149	388
31	696	161	414
Total Sec.Ft.	25022	7300	10049
Mean	807	238	324
Total Ac.Ft.	49620	14634	19922
			17429
			14085
			0
			14085
			13
			3357
			454
			0
			454
			0.4
			108
			27915
			0
			27915
			26
			6667

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DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR USE AND USED IN CANADA
AUGUST - 1925.

Day	: Natural flow : Canada's share at Kimball	: St. Mary R. : share at Kimball	: Diverted by Kimball	: Excess Canada	: Deficiency of share delivered.
1	1050	692	768	640	76
2	1022	678	747	623	69
3	1011	673	733	604	63
4	994	664	712	582	48
5	975	655	684	556	29
6	938	636	649	524	13
7	916	625	642	504	17
8	868	601	635	507	34
9	841	588	628	500	40
10	813	574	614	494	40
11	726	530	588	500	58
12	703	521	576	524	55
13	640	507	552	500	45
14	659	494	540	492	46
15	774	554	670	544	116
16	806	570	733	500	163
17	782	558	649	498	91
18	864	599	628	547	29
19	837	586	607	538	21
20	776	555	582	520	27
21	773	554	614	507	60
22	803	569	834	543	265
23	842	588	1050	547	462
24	919	627	1210	599	583
25	749	542	733	468	191
26	723	529	614	527	85
27	650	488	504	458	16
28	623	467	462	434	
29	610	458	450	418	
30	594	445	468	392	23
31	696	515	1110	487	595
Total sec.ft.	25022	17642	20986	16077	3357 13
Mean	807	569	677	519	108 0.4
Total Aa.ft.	49620	34986	41627	31912	6667 26

DETERMINATION OF NATURAL FLOW OF ST. MARY RIVER
WATER STORED OR RELEASED FROM SHERBURN RESERVOIR
September - 1925

Day	INFLOW INTO SHERBURN RESERVOIR			OUTFLOW			Released
	Recorded	Unrecorded	Total	Swiftcurrent	Stored	Released	
	Swifcurrent : Canyon	Inflow :		at Sherburne			
1	97	15	29	141	316	0	175
2	90	16	31	137	186	0	49
3	85	16	30	131	185	0	54
4	84	17	29	130	185	0	55
5	85	17	30	132	185	0	53
6	82	18	29	129	185	0	56
7	86	17	36	143	312	0	169
8	93	16	41	150	520	0	370
9	93	17	41	151	517	0	366
10	92	23	43	158	526	0	368
11	93	29	46	165	535	0	367
12	97	25	46	160	541	0	373
13	99	22	45	166	544	0	370
14	102	19	45	165	542	0	375
15	104	18	45	168	538	0	370
16	101	20	45	166	535	0	369
17	95	19	43	157	529	0	372
18	104	18	46	158	532	0	364
19	106	18	47	171	538	0	367
20	109	18	48	175	532	0	357
21	112	18	49	179	529	0	350
22	112	18	49	179	526	0	347
23	112	19	49	180	520	0	340
24	101	20	45	166	517	0	351
25	98	20	44	162	514	0	352
26	96	18	43	157	523	0	366
27	94	17	40	151	535	0	384
28	92	15	40	147	538	0	391
29	91	15	40	146	529	0	383
30	90	14	40	144	526	0	382
Total Sec.Ft.	2897	552	1237	4586	13739	0	9053
Mean	97	18	41	156	456	0	301
Total Ac.Ft.	5772	1095	2443	9310	27253	0	17943

DETERMINATION OF NATURAL FLOW OF ST. MARY RIVER
September - 1925

	St.Mary River	Diverted by	Stored by	Total in	Stored water	Natural flow
Day	at Kimball : U.S.R.C.	: U.S.R.C.	Sec.Ft.	Released	; St.Mary River	
1	1030		0	1030	434	596
2	874		0	874	433	441
3	754		0	754	175	579
4	698		0	698	49	649
5	677		0	677	54	623
6	684		0	684	25	629
7	642		0	642	53	589
8	657	34	0	691	53	635
9	364	312	0	695	169	527
10	291	451	0	742	370	372
11	325	468	0	793	366	427
12	319	504	0	823	368	455
13	325	517	0	842	367	475
14	330	523	0	853	373	480
15	330	525	0	855	376	477
16	356	525	0	881	375	506
17	380	521	0	901	370	531
18	361	523	0	884	369	515
19	426	519	0	945	372	573
20	492	489	0	981	364	617
21	462	479	0	941	367	574
22	450	478	0	926	357	571
23	438	479	0	917	350	567
24	410	491	0	901	347	554
25	370	500	0	870	340	530
26	380	502	0	882	351	531
27	400	512	0	912	352	560
28	415	502	0	917	366	551
29	496	496	0	952	384	568
30	468	478	0	946	371	555
Total Sec.Ft.	14584	10878	0	25412	9155	16257
Mean	486	361	0	847	305	542
Total Ac.Ft.	26919	21481	0	50400	18149	32251

DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR USE AND USED BY U.S.A.

Sept

	Natural flow: AVAILABLE FOR USE BY U.S.A.	USED BY U.S.A.	Excess:Deficit
Day:	St. Mary R. :U.S. :Stored Water: Total	Diverted: Stored: Total:	:ency
	: at Kimball :Share: Released :	:	: or Share Used
1	596	149	434
2	441	110	433
3	579	145	175
4	649	162	49
5	623	156	54
6	629	157	55
7	589	147	53
8	635	159	56
9	527	132	169
10	372	92	170
11	427	107	366
12	455	114	366
13	475	119	387
14	480	120	373
15	477	119	378
16	506	126	375
17	531	133	370
18	525	129	369
19	573	143	372
20	617	154	364
21	574	144	367
22	571	143	357
23	567	142	350
24	554	139	347
25	530	132	340
26	531	132	351
27	560	140	352
28	551	138	366
29	538	142	384
30	555	139	391
Total Sec. ft.	16257	4065	9155
Mean	542	135 ^b	305
Total No. ft.	32251	8062	18149
			13220
			10828
			0
			10828
			265
			2657
			8.8
			88
			525
			5255

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DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR USE AND USED BY CANADA
SEPTEMBER - 1925

Day	Natural flow at Kimball	Canada's Share at Kimball	St. Mary R.: at Kimball	Diverted by Canada	Excess	Deficiency
1	596	447	1930	527	583	
2	441	331	874	527	343	
3	579	434	754	511	330	
4	649	487	696	527	212	
5	623	467	677	513	210	
6	629	472	684	554	212	
7	589	442	642	561	200	
8	635	476	657	536	181	
9	527	395	384	336		11
10	372	279	291	258	12	
11	427	320	325	305	5	
12	455	341	319	295		22
13	475	356	325	300		31
14	480	360	330	308		30
15	477	358	330	310		28
16	506	380	356	327		24
17	532	398	380	351		18
18	515	386	361	329		25
19	573	430	426	380		4
20	617	463	492	432	29	
21	574	430	462	414	32	
22	571	428	450	404	22	
23	567	425	438	392	13	
24	554	415	410	367		5
25	530	398	370	336		28
26	531	399	380	344		19
27	560	420	400	355		20
28	551	413	415	372	2	
29	568	426	456	408	30	
30	555	416	468	370	52	
Total Sec.ft.	16257	12192	14584	12057	2657	265
Mean	542	406	486	402	88	8.8
Total Ac.ft.	32251	24189	28919	23921	5255	525

DETERMINATION OF NATURAL FLOW OF ST. MARY RIVER
WATER STORED OR RELEASED FROM SHERBURN REACHING
October - 1925

Day	INLET INTO SHERBURN REACHING			Outflow			Released
	Recorded	Unrecorded	Total	Swiftcurrent	Stored	Released	
	Swiftcurrent	Canyon	Inflow	at Sherburne	at Sherburne	at Sherburne	
1	0	14	0	139	502	0	363
2		14		129	488		359
3		14		124	480		356
4		14		119	471		352
5		14		114	454		340
6		14		109	435		326
7		14		103	571		468
8		13		97	913		816
9		13		90	1080		990
10		13		84	1080		996
11		13		81	1010		929
12				78	877		799
13				74	769		695
14				71	629		548
15				67	468		401
16				64	307		243
17				61	174		113
18				58	109		51
19				56	87		31
20				54	67		33
21				51	87		
22				53	53		
23							
24							
25							
26							
27							
28							
29							
30							
31							

Total Sec.Ft.

Mean

Total Ac.Ft.

No records available

No records available

No records available

DETERMINATION OF NATURAL FLOW OF ST.MARY RIVER
October - 1925

(St.Mary River:Diverted by:Stored by:Total in: Stored water : Natural flow
Day: at Kimball : U.S.R.B. : U.S.R.S.: Sec.Ft.: Released : St.Mary River

1	432	472	0	904	383	521
2	410	472		882	382	500
3	405	453		858	363	495
4	380	453		833	359	474
5	348	453		801	356	445
6	334	441		775	352	423
7	330	432		762	340	422
8	444	398		842	326	516
9	782	275		1057	468	589
10	939	188		1177	816	361
11	1200	122		1322	990	338
12	1200	115		1315	996	319
13	1250	56		1336	949	407
14	1190	7		1197	799	393
15	1060	-		1060	695	365
16	926			926	546	378
17	768			768	401	367
18	656			656	243	413
19	558			558	113	445
20	486			486	52	435
21	450			450	31	419
22	426			426	33	393
23	405			405	16	389
24	370			370		390
25	380			380		380
26	361			361		361
27	338			338		338
28	345			325		325
29	330			330		330
30	338			338		338
31	325			325		325
Total Sec.Ft.	18246	4337	0	22583	9990	12593
Mean	589	310	0	729	322	406
Total Ac.Ft.	36192	6602	0	44794	19818	24976

DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR USE AND USED BY U.S.A.

	Natural Flow: Available for Use by U.S.A.	Used by U.S.A.	Excess: Deficit
Day:	St. Mary R. : U.S. : Stored Water: Total	: Diverted: Stored: Total	:ency
	: at Kimball : Share: Released :	:	: Of Share Used
1	521	130	383
2	500	125	382
3	495	124	363
4	474	119	359
5	445	111	355
6	423	106	352
7	422	105	340
8	516	129	326
9	509	147	468
10	361	90	816
11	332	63	990
12	319	69	996
13	407	102	929
14	398	99	799
15	365	91	695
16	378	95	548
17	367	92	401
18	413	103	243
19	445	111	113
20	435	109	51
21	419	105	31
22	393	98	33
23	387	97	16
24	390	98	98
25	380	95	95
26	361	90	20
27	338	85	85
28	325	81	81
29	330	82	82
30	338	85	85
31	325	81	81
Total Sec.Ft.	12593	3148	9990
Sec	406	102	322
Total Ac.Ft.	24976	6241	19818
			13138
			4337
			0
			4537
			0
			8861
			310
			0
			310
			0
			284
			8602
			0
			17457

DIVISION OF WATER OF ST. MARY RIVER
WATER AVAILABLE FOR USE AND USED BY U.S.A.
OCTOBER - 1925.

Day	Natural flow at St. Mary R. at Kimball	Canada's share at Kimball	St. Mary R.: at Kimball	Diverted: by Canada	Excess:Deficiency of share delivered
1	521	391	432	331	41
2	500	375	410	308	35
3	495	371	405	308	34
4	474	355	380	295	25
5	445	334	348	298	14
6	423	317	334	305	17
7	422	317	330	303	13
8	516	387	444	370	57
9	589	442	782	285	340
10	361	271	989	223	271
11	332	249	1200	295	951
12	319	239	1200	319	969
13	407	305	1280	165	975
14	398	299	1190	93	899
15	365	274	1060	52	786
16	378	283	926	19	643
17	367	275	768	10	493
18	413	310	656	6	346
19	445	334	558	3	224
20	435	326	486		160
21	419	314	450		136
22	393	295	426		131
23	389	292	405		113
24	390	292	390		95
25	380	285	380		95
26	361	271	361		90
27	338	253	338		85
28	325	244	325		81
29	330	248	330		82
30	338	253	338		85
31	325	244	325		81
Total Sec.ft.	12593	9445	18246	3988	8801
Mean	406	305	589	199	284
Total Ac. ft.	24976	18735	36192	7894	17457

Table 2

DIVISION OF ST. MARY RIVER
CANADA

WATER AVAILABLE IN ACRES FEET

Month	St. Mary River at Kimball	Rolph	Pothole Creek	Combined Flow
April	59385	2106	1642	63127
May	162450	941	117	163500
June	176096	321		176417
July	79504	492		79996
August	41627	437		42064
September	28919	232		29151
October	36216	344		36560
TOTAL	586197	4837 ^a	1756 ^b	592323 ^c

DISPOSITION

Month	Diverted by A.H.C. I.C.O.	Wasted by A.H.C. I.C.O.	Losses A.R.C. I.C.O.	Stored in Chim Res.	St. Mary River at Lethbridge
April		3695			83960
May	26419	4821	2046		153411
June	47434	7611	3602		143164
July	43779	9083	929		46546
August	31911	1721	610		10207
September	23921	1095	532		8569
October	7394	2474	+ 928		32927
TOTAL	181409 ^d	30505 ^e	6991 ^f		478814 ^g

^a - includes seepage losses from U.S.R.S. St. Mary Canal

^b - natural flow

^c - computed

^d - diverted by A.H.C. I.C.O. at Kimball

^e - wasted in Pintspound and Pothole wasteways

^f - losses between Kimball and Magrath

^g - below all points of diversion

DIVISION OF ST. MARY RIVER
UNITED STATES

TABLE 2.

(Rounded to hundreds of acre feet)

AVAILABLE, AcreFt::

D I S P O S I T I O N - Acre Feet

	Diverted:Actual	Diverted:Wasted	Delivery	Evaporation	Stored or MILK River			
	St.Mary : Flow at: MILK River; from MILK:Losses at: Losses Nelson Reser-					Released : Ft		
	to MILK :Chilman :: Canals :River &		Mary Canal:voir & Canals east of:Nelson			Vandalia		
	River :	:	Canals	MILK River:	Dodgeon Dam		Reservoir: Dam	
MONTH:	(aa)	(a)	(b)	(c)	(d)	(e)	(f)	(x)
APRIL:	500	77,400	14,100	2,700		5,800	9,400	429,900
MAY :	21,900	48,800	29,800	3,800	2,900	10,500	9,100	67,600
JUNE :	29,400	51,800	17,100	7,300	5,300	8,300	2,600	114,000
JULY :	30,000	27,000	29,400	2,900	3,700	15,400	4,300	22,000
AUG. :	27,900	29,500	28,700	5,700	3,600	12,200	1,300	20,900
SEPT.:	31,500	24,000	14,200	5,100	3,900	1,700	8,500	36,700
OCT. :	8,600	21,700	31,400	7,100	1,500	2,400	13,200	50,200
TOTAL:	149,400	280,200	154,500	34,600	22,900	56,100	30,800	740,400

(aa) Measured at St.Mary's Crossing. (x) Above Ft.Bellamy diversion dam. Computed.

(b) Ft.Bellamy & Paradise canals near Chinook; Harlem & Agency canals near Harlem; Dodgeon North and South Canals near Dodgeon; & Vandalia canal near Vandalia. Does not include 1800 acre feet diverted by Ft.Bellamy canal in Nov. & delivered to beet sugar factory. (a) From Nelson Reservoir & canals (including Chinook Division canals). Largely available for re-diversion.

(d) Losses occurring between point of measurement of St.Mary Canal at St.Mary's crossing & the diversions in the Milk River Valley measured at the Agency diversion dam near Harlem.

(e) No data available for losses on Chinook Division. (f) Shows difference between inflow and outflow, including waste back to Milk River. (x) Below all points of diversion.

Table 3

DISPOSITION OF THE WATERS OF LODGE CREEK

1925

QUANTITIES IN ACRE FEET

Irrigator	April	May	June	July	August	September	October	Total
J.English	112	52	12					176
R.L.Noth				No diversion				
H.A.Mudie				"				
F.S.Clarke				Estimated diversion				15
J.Kead				"				30
J.S.Hartt				"				30
W.Mitchell				No diversion				
Spangler				"				
D.A.Hammond				"				
A.Strum				"				
Mitchell Bros.				"				
G.A.Legge				Estimated diversion				15
B.A.Jahn				No diversion				
W.B.Gregg				Estimated diversion				50
Total recorded as used by Canada	112	52	12					316
 FLOW AT THE BOUNDARY	24575	806	2338	1	-	42	6	27768

Table 3

DISPOSITION OF THE WATERS OF BATTLE CREEK

1925

QUANTITIES IN ACRES FROST

Irrigator	April	May	June	July	August	September	October	Total
J. Leslie				No diversion				
J.H. Spangler	-	34	83					117
Wood & Anderson	40	11						51
E.J. Parsonage				No diversion				
V.G. Patterson	14							14
J.A. Gaff				97				97
Shepherd Bros.	60							60
F.B. Wilson				No diversion				
Wilkes	-	16	44			2	37	99
Gilchrist Bros.				No diversion				
Richardson				"				
J.McKinnon	-	194	217	11				42
Stirling &								
Mash	119	350	200					669
H.J. Badger				No diversion				
Linder Bros.			43	42				85
 Total recorded as used by Canada	233	605	587	150		2	37	1614
 FLOW AT THE BOUNDARY	26539	3197	1845	221		77	640	32519

DISPOSITION OF THE WATER OF THE NORMAN RIVER

1925

QUANTITIES IN ACRES FEET

Irrigator	April	May	June	July	August	September	October	Total
D.J. Kyle	60	32						152
T.A. Drury				No diversion				
Kearney Bros.				" "				
Armstrong "E"				Estimated diversion				60 ^a
" "				No diversion				
S.J. Bull	13	167		72				252
T. Mekott				No diversion				
J. Gross	17	75						92
Pearce	21	71	11					103
Bolingbroke	6	18	2					26
Clark & Thompson			No diversion					
J.C. Strong			" "					
Morrison Bros.			" "					
" D.M.			" "					
A.M. Date			Estimated diversion					10 ^a
 Total recorded as used by Canada	117	423	85					695
 FLOW AT THE BOUNARY	72595	7993	7795	2072	535	881	1494	93365

Table 4.

Diversions in the United States

From Northern Tributaries

of the

Will River

Season - 1925

Irrigator	Stream	Diversion in acre-in. ^a			
		Lakeview	McCracken	Monroe	Total
Chinook North Canal Co.	Loge Creek	No data available			
Matheson Canal	Battle Creek	230,120			410
Premoison Canal	Premoison L.	No data available but guess	2100		
Rock Creek Canal Co.	Rock Creek	No diversion			

HD
1694
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R424
1925

Report to the International Joint
Commission on the division and use
of the waters of the St. Mary and
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DATE DUE

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