

Flathead Lake Inflow and Outflow Analysis 5/1/2023-7/08/2023

Date	Swan River near Bigfork (cfs) a	Flathead River Near Kalispell (cfs) b	Inflow (cfs) a + b c	Outflow Flathead River nr Polson (cfs) d	Net inflow minus outflow (cfs) c - d e	Release Guidelines FERC License (cfs) f	Outflow Compared to FERC Max (cfs) d - 12,700 g	Net Outflow converted to Acre Feet of Water (acf) g x 2 h	Flathead Lake Elevation Level at Kerr i
05/01/23	1,740	18,800	20,540	5,900	14,640	5000-12700	(6,800)	(13,600)	2,886.04
05/02/23	2,160	25,000	27,160	6,940	20,220	5000-12700	(5,760)	(11,520)	2,886.29
05/03/23	2,810	29,800	32,610	7,800	24,810	5000-12700	(4,900)	(9,800)	2,886.63
05/04/23	3,450	32,300	35,750	8,810	26,940	5000-12700	(3,890)	(7,780)	2,887.03
05/05/23	3,980	34,600	38,580	9,910	28,670	5000-12700	(2,790)	(5,580)	2,887.46
05/06/23	4,470	35,500	39,970	10,900	29,070	5000-12700	(1,800)	(3,600)	2,887.97
05/07/23	4,990	33,800	38,790	13,300	25,490	5000-12700	600	1,200	2,888.50
05/08/23	5,160	29,400	34,560	15,000	19,560	5000-12700	2,300	4,600	2,888.90
05/09/23	4,800	26,300	31,100	18,000	13,100	5000-12700	5,300	10,600	2,889.17
05/10/23	4,300	24,100	28,400	20,400	8,000	5000-12700	7,700	15,400	2,889.41
05/11/23	3,790	22,800	26,590	24,400	2,190	5000-12700	11,700	23,400	2,889.51
05/12/23	3,420	22,600	26,020	24,800	1,220	5000-12700	12,100	24,200	2,889.56
05/13/23	3,190	22,900	26,090	24,900	1,190	5000-12700	12,200	24,400	2,889.61
05/14/23	3,110	24,000	27,110	24,800	2,310	5000-12700	12,100	24,200	2,889.65
05/15/23	3,150	25,700	28,850	22,300	6,550	5000-12700	9,600	19,200	2,889.70
05/16/23	3,380	28,700	32,080	20,300	11,780	12700	7,600	15,200	2,889.85
05/17/23	3,790	30,500	34,290	20,400	13,890	12700	7,700	15,400	2,890.07
05/18/23	4,200	28,600	32,800	20,800	12,000	12700	8,100	16,200	2,890.28
05/19/23	4,440	26,900	31,340	20,500	10,840	12700	7,800	15,600	2,890.47
05/20/23	4,420	27,100	31,520	20,300	11,220	12700	7,600	15,200	2,890.65
05/21/23	4,420	27,700	32,120	20,100	12,020	12700	7,400	14,800	2,890.83
05/22/23	4,490	27,800	32,290	19,300	12,990	12700	6,600	13,200	2,890.99
05/23/23	4,560	27,000	31,560	16,200	15,360	12700	3,500	7,000	2,891.25
05/24/23	4,490	24,000	28,490	14,700	13,790	12700	2,000	4,000	2,891.50
05/25/23	4,190	21,600	25,790	14,500	11,290	12700	1,800	3,600	2,891.72
05/26/23	3,860	20,200	24,060	15,500	8,560	12700	2,800	5,600	2,891.90
05/27/23	3,590	18,500	22,090	16,600	5,490	12700	3,900	7,800	2,892.02
05/28/23	3,390	16,900	20,290	16,600	3,690	12700	3,900	7,800	2,892.11
05/29/23	3,280	15,600	18,880	16,600	2,280	12700	3,900	7,800	2,892.18
05/30/23	3,190	15,300	18,490	15,600	2,890	12700	2,900	5,800	2,892.25
05/31/23	3,100	14,600	17,700	14,200	3,500	12700	1,500	3,000	2,892.32
06/01/23	3,030	13,500	16,530	13,500	3,030	12700	800	1,600	2,892.39
06/02/23	2,910	12,600	15,510	13,500	2,010	12700	800	1,600	2,892.46
06/03/23	2,780	11,700	14,480	12,700	1,780	12700	0	0	2,892.51
06/04/23	2,660	11,000	13,660	12,700	960	12700	0	0	2,892.55
06/05/23	2,530	10,700	13,230	12,700	530	12700	0	0	2,892.57
06/06/23	2,430	10,400	12,830	12,700	130	12700	0	0	2,892.59
06/07/23	2,400	10,100	12,500	12,700	(200)	12700	0	0	2,892.60
06/08/23	2,390	9,820	12,210	12,800	(590)	12700	100	200	2,892.62

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06/09/23	2,490	10,100	12,590	12,700	(110)	12700	0	0	2,892.66
06/10/23	2,590	11,000	13,590	12,700	890	12700	0	0	2,892.67
06/11/23	2,580	10,700	13,280	12,700	580	12700	0	0	2,892.69
06/12/23	2,500	10,100	12,600	12,800	(200)	12700	100	200	2,892.70
06/13/23	2,430	9,550	11,980	12,700	(720)	12700	0	0	2,892.71
06/14/23	2,320	9,250	11,570	12,800	(1,230)	12700	100	200	2,892.64
06/15/23	2,230	9,570	11,800	12,700	(900)	12700	0	0	2,892.69
06/16/23	2,130	9,100	11,230	12,800	(1,570)	12700	100	200	2,892.66
06/17/23	2,010	8,640	10,650	12,700	(2,050)	12700	0	0	2,892.65
06/18/23	1,930	8,770	10,700	12,700	(2,000)	12700	0	0	2,892.61
06/19/23	1,930	8,590	10,520	12,700	(2,180)	12700	0	0	2,892.59
06/20/23	1,890	8,180	10,070	12,800	(2,730)	12700	100	200	2,892.56
06/21/23	1,790	7,750	9,540	12,700	(3,160)	12700	0	0	2,892.56
06/22/23	1,680	7,380	9,060	12,600	(3,540)	12700	(100)	(200)	2,892.52
06/23/23	1,580	7,020	8,600	12,600	(4,000)	12700	(100)	(200)	2,892.46
06/24/23	1,500	6,690	8,190	12,700	(4,510)	12700	0	0	2,892.40
06/25/23	1,410	6,510	7,920	12,800	(4,880)	12700	100	200	2,892.33
06/26/23	1,320	6,310	7,630	12,700	(5,070)	12700	0	0	2,892.25
06/27/23	1,270	6,130	7,400	12,700	(5,300)	12700	0	0	2,892.18
06/28/23	1,220	6,030	7,250	12,700	(5,450)	12700	0	0	2,892.11
06/29/23	1,180	5,980	7,160	12,700	(5,540)	12700	0	0	2,892.03
06/30/23	1,150	5,820	6,970	12,700	(5,730)	12700	0	0	2,891.94
07/01/23	1,110	5,660	6,770	12,300	(5,530)	12700-6400	(400)	(800)	2,891.83
07/02/23	1,060	5,540	6,600	11,800	(5,200)	12700-6400	(900)	(1,800)	2,891.74
07/03/23	1,030	5,420	6,450	11,500	(5,050)	12700-6400	(1,200)	(2,400)	2,891.70
07/04/23	993	5,290	6,283	11,100	(4,817)	12700-6400	(1,600)	(3,200)	2,891.65
07/05/23	955	5,160	6,115	10,700	(4,585)	12700-6400	(2,000)	(4,000)	2,891.55
07/06/23	934	5,060	5,994	10,300	(4,306)	12700-6400	(2,400)	(4,800)	2,891.47
07/07/23	904	4,950	5,854	9,870	(4,016)	12700-6400	(2,830)	(5,660)	2,891.41
07/08/23	864	4,840	5,704	9,400	(3,696)	12700-6400	(3,300)	(6,600)	2,891.34

Water Released Above Kerr license guidelines (5/1/2023-07/08/2023)

Measure

114,030
cfs

228,060
acre feet

Approximate Number of Acre Feet of water in 1 foot of Flathead Lake

120,000

Reduction in Lake Level Related to Releases from Kerr Dam above FERC release guidelines (228,060 divided by 120,000)

1.90

Note the 228,000 acre feet is the equivalent of the amount of Flathead System Compact Water awarded to the CSKT in the compact