

Missouri River Basin
Calendar Year 2022

Runoff Forecast
*1898-2020 Averages

3-Jan-22

Incremental Runoff in Reaches

	Fort Peck	Garrison	Oahe	Fort Randall	Gavins Point	Sioux City	Summation above Gavins Point	Summation above Sioux City	End-of-Month Accumulated Runoff above Sioux City
	Values in 1000 Acre Feet								
	(Forecast)								
JAN 2022	270	210	30	15	130	90	655	745	745
AVERAGE*	313	263	13	32	102	61	723	784	784
DEPARTURE	-43	-53	17	-17	28	29	-68	-39	-39
% OF AVG	86%	80%	231%	47%	127%	148%	91%	95%	95%
FEB 2022	330	320	140	40	170	140	1,000	1,140	1,885
AVERAGE*	365	363	102	61	135	109	1,026	1,135	1,919
DEPARTURE	-35	-43	38	-21	35	31	-26	5	-34
% OF AVG	90%	88%	137%	66%	126%	128%	97%	100%	98%
MAR 2022	400	750	500	130	190	320	1,970	2,290	4,175
AVERAGE*	602	1,017	595	225	221	351	2,660	3,011	4,930
DEPARTURE	-202	-267	-95	-95	-31	-31	-690	-721	-755
% OF AVG	66%	74%	84%	58%	86%	91%	74%	76%	85%
APR 2022	450	900	400	80	150	350	1,980	2,330	6,505
AVERAGE*	649	1,088	507	149	183	407	2,576	2,983	7,913
DEPARTURE	-199	-188	-107	-69	-33	-57	-596	-653	-1,408
% OF AVG	69%	83%	79%	54%	82%	86%	77%	78%	82%
MAY 2022	800	1,040	300	100	200	310	2,440	2,750	9,255
AVERAGE*	1,093	1,286	336	160	192	349	3,067	3,416	11,329
DEPARTURE	-293	-246	-36	-60	8	-39	-627	-666	-2,074
% OF AVG	73%	81%	89%	63%	104%	89%	80%	81%	82%
JUN 2022	1,200	2,250	400	120	190	320	4,160	4,480	13,735
AVERAGE*	1,637	2,752	447	163	189	346	5,188	5,534	16,863
DEPARTURE	-437	-502	-47	-43	1	-26	-1,028	-1,054	-3,128
% OF AVG	73%	82%	89%	74%	101%	92%	80%	81%	81%
JUL 2022	650	1,500	180	60	145	265	2,535	2,800	16,535
AVERAGE*	830	1,829	200	63	142	265	3,064	3,329	20,192
DEPARTURE	-180	-329	-20	-3	3	0	-529	-529	-3,657
% OF AVG	78%	82%	90%	95%	102%	100%	83%	84%	82%
AUG 2022	300	540	80	50	120	160	1,090	1,250	17,785
AVERAGE*	360	614	85	47	119	162	1,225	1,387	21,579
DEPARTURE	-60	-74	-5	3	1	-2	-135	-137	-3,794
% OF AVG	83%	88%	94%	106%	101%	99%	89%	90%	82%
SEP 2022	300	410	115	40	115	130	980	1,110	18,895
AVERAGE*	328	453	114	41	115	133	1,051	1,184	22,763
DEPARTURE	-28	-43	1	-1	0	-3	-71	-74	-3,868
% OF AVG	91%	91%	101%	98%	100%	98%	93%	94%	83%
OCT 2022	340	480	75	2	120	110	1,017	1,127	20,022
AVERAGE*	381	534	74	2	122	109	1,113	1,222	23,985
DEPARTURE	-41	-54	1	0	-2	1	-96	-95	-3,963
% OF AVG	89%	90%	101%	100%	98%	101%	91%	92%	83%
NOV 2022	340	350	70	2	120	90	882	972	20,994
AVERAGE*	382	390	68	2	120	92	962	1,054	25,039
DEPARTURE	-42	-40	2	0	0	-2	-80	-82	-4,045
% OF AVG	89%	90%	103%	100%	100%	98%	92%	92%	84%
DEC 2022	300	230	9	15	100	70	654	724	21,718
AVERAGE*	329	256	9	15	102	71	711	782	25,821
DEPARTURE	-29	-26	0	0	-2	-1	-57	-58	-4,103
% OF AVG	91%	90%	100%	100%	98%	99%	92%	93%	84%
	Calendar Year Totals								
AVERAGE*	5,680	8,980	2,299	654	1,750	2,355	19,363	21,718	
DEPARTURE	7,269	10,845	2,550	960	1,742	2,455	23,366	25,821	
% OF NORM	-1,589	-1,865	-251	-306	8	-100	-4,003	-4,103	
	78%	83%	90%	68%	100%	96%	83%	84%	

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Values in 1000 Acre Feet									
JAN 2021	288	243	31	133	206	124	900	1,024	1,024
AVERAGE*	313	263	13	32	102	61	723	784	784
DEPARTURE	-25	-20	18	101	104	63	177	240	240
% OF AVG	92%	92%	235%	417%	202%	203%	125%	131%	131%
FEB 2021	241	145	34	61	178	107	660	767	1,791
AVERAGE*	365	363	102	61	135	109	1,026	1,135	1,919
DEPARTURE	-124	-218	-68	0	43	-2	-366	-368	-128
% OF AVG	66%	40%	33%	100%	132%	98%	64%	68%	93%
MAR 2021	528	682	164	129	383	184	1,886	2,070	3,861
AVERAGE*	602	1,017	595	225	221	351	2,660	3,011	4,930
DEPARTURE	-74	-335	-431	-97	162	-167	-774	-942	-1,069
% OF AVG	88%	67%	28%	57%	173%	52%	71%	69%	78%
APR 2021	368	442	19	31	260	175	1,120	1,296	5,157
AVERAGE*	649	1,088	507	149	183	407	2,576	2,983	7,913
DEPARTURE	-281	-646	-488	-118	77	-232	-1,456	-1,687	-2,756
% OF AVG	57%	41%	4%	21%	142%	43%	43%	43%	65%
MAY 2021	654	875	122	65	230	141	1,945	2,086	7,242
AVERAGE*	1,093	1,286	336	160	192	349	3,067	3,416	11,329
DEPARTURE	-439	-411	-214	-95	38	-208	-1,122	-1,330	-4,087
% OF AVG	60%	68%	36%	41%	120%	40%	63%	61%	64%
JUN 2021	781	1,670	137	-19	181	143	2,750	2,893	10,136
AVERAGE*	1,637	2,752	447	163	189	346	5,188	5,534	16,863
DEPARTURE	-856	-1,082	-310	-182	-9	-203	-2,438	-2,641	-6,727
% OF AVG	48%	61%	31%	-11%	96%	41%	53%	52%	60%
JUL 2021	196	444	34	74	202	187	950	1,137	11,272
AVERAGE*	830	1,829	200	63	142	265	3,064	3,329	20,192
DEPARTURE	-634	-1,385	-166	11	60	-78	-2,114	-2,192	-8,920
% OF AVG	24%	24%	17%	117%	142%	70%	31%	34%	56%
AUG 2021	231	210	11	55	117	128	622	750	12,023
AVERAGE*	360	614	85	47	119	162	1,225	1,387	21,579
DEPARTURE	-130	-404	-74	8	-2	-34	-603	-637	-9,556
% OF AVG	64%	34%	13%	116%	98%	79%	51%	54%	56%
SEP 2021	169	272	15	101	133	108	689	798	12,820
AVERAGE*	328	453	114	41	115	133	1,051	1,184	22,763
DEPARTURE	-159	-181	-99	60	18	-25	-362	-387	-9,943
% OF AVG	51%	60%	13%	246%	116%	81%	66%	67%	56%
OCT 2021	234	326	143	1	141	75	844	920	13,740
AVERAGE*	381	534	74	2	122	109	1,113	1,222	23,985
DEPARTURE	-148	-208	69	-1	19	-34	-269	-302	-10,245
% OF AVG	61%	61%	193%	60%	116%	69%	76%	75%	57%
NOV 2021	302	194	49	-117	163	101	591	692	14,432
AVERAGE*	382	390	68	2	120	92	962	1,054	25,039
DEPARTURE	-80	-196	-19	-119	43	9	-371	-362	-10,607
% OF AVG	79%	50%	72%	-5835%	136%	109%	61%	66%	58%
DEC 2021	238	186	67	-2	155	111	644	755	15,187
AVERAGE*	329	256	9	15	102	71	711	782	25,821
DEPARTURE	-91	-71	58	-17	53	40	-67	-27	-10,634
% OF AVG	72%	72%	748%	-15%	152%	156%	91%	97%	59%
Calendar Year Totals									
AVERAGE*	4,229	5,689	825	512	2,348	1,583	13,604	15,187	
DEPARTURE	7,269	10,845	2,550	960	1,742	2,455	23,366	25,821	
DEPARTURE	-3,040	-5,156	-1,725	-448	606	-872	-9,762	-10,634	
% OF NORM	58%	52%	32%	53%	135%	64%	58%	59%	