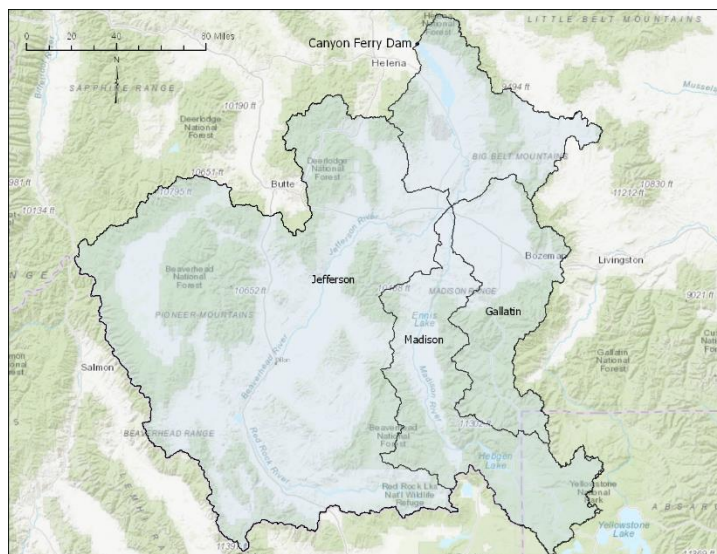


Canyon Ferry Dam Water Supply and Projected Operations *November 2023*



— BUREAU OF —
RECLAMATION



Watershed above Canyon Ferry Dam

Forecast	Minimum	Median	Maximum
Monthly Inflow (kaf)	220	270	305
End of Month Elevation (ft)	3789.6	3791.2	3791.9
Missouri River below Holter Dam Average River Release (cfs)	4,400	4,400	4,700

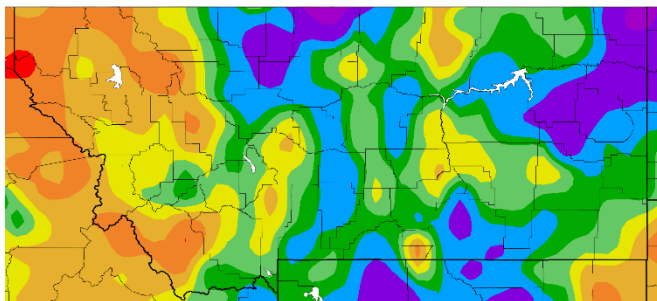


Canyon Ferry Dam

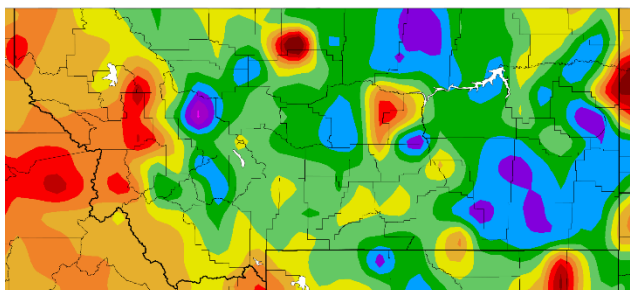
November Inflow Forecast	
November Volume (kaf)	270.0
Percent of Average (%)	114
Water Year	Historic Inflow (kaf)
2023	182.0
2022	184.6
2021	230.4
2020	256.4
30 Year Average	239.9

Western Regional Climate Center October 1-31 Climate

Percent of Normal Precipitation



Departure from Normal Temperature (F)



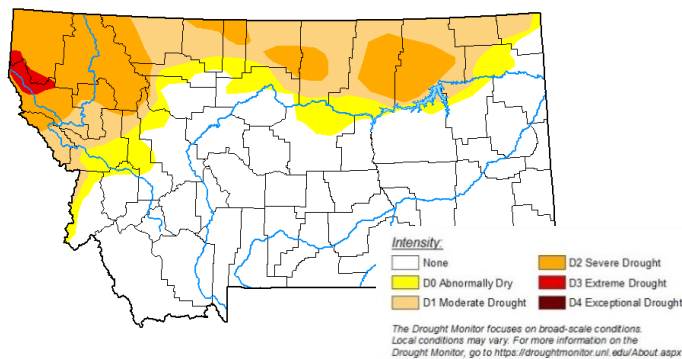
CLIMATE SUMMARY

October temperatures and precipitation were mixed across the basins surrounding Canyon Ferry Reservoir.

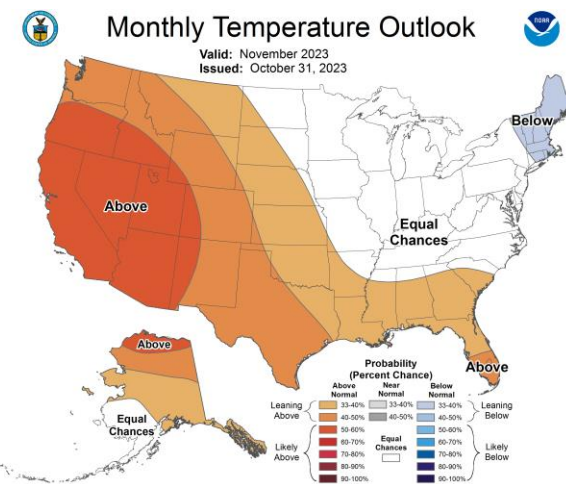
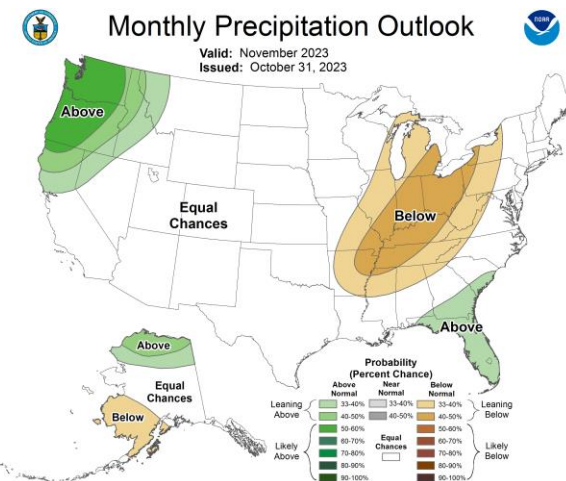
The one-month outlook forecast, dated October 31, is for a 30-40% chance of above normal precipitation and 40-50% chance of warmer temperatures during November.

There are no drought designations in Southwestern Montana.

MT Drought Monitor Map October 31, 2023



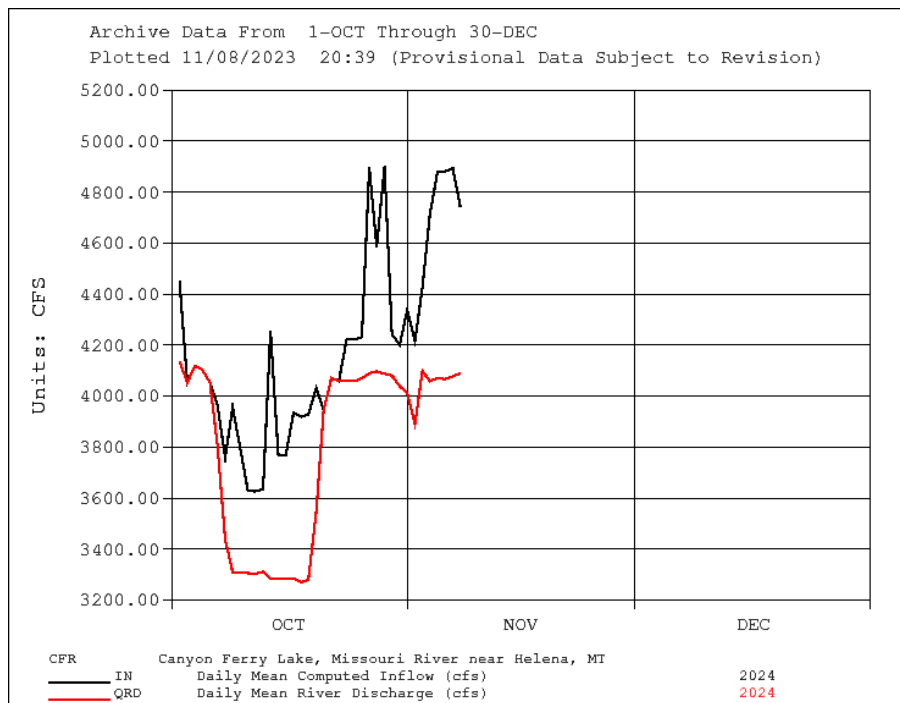
National Weather Service November Weather Outlook



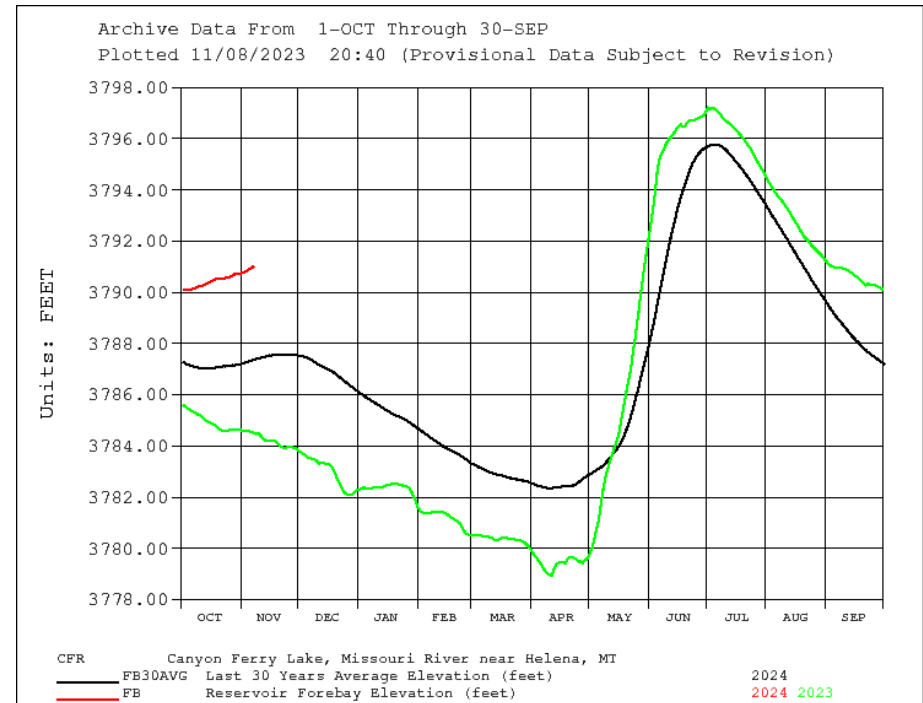
Operations Review

October inflows totaled 251,200 acre-feet or 105 percent of average. Releases from Canyon Ferry were reduced to 3,300 at the beginning of the month due to river outlet work and turbine maintenance, then increased to 4,100 cfs by the 20th . The reservoir elevation was 3790.75 feet by the end of the month.

Canyon Ferry Dam Inflow & Releases (cfs)

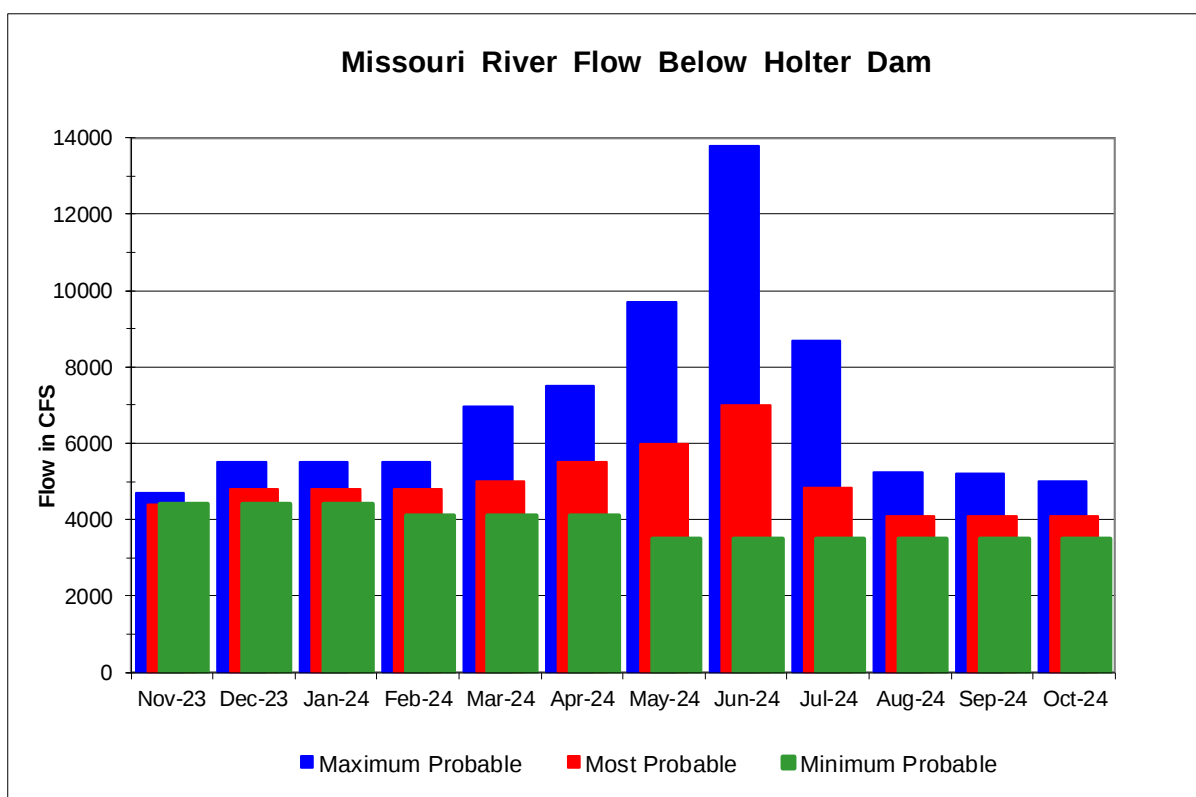
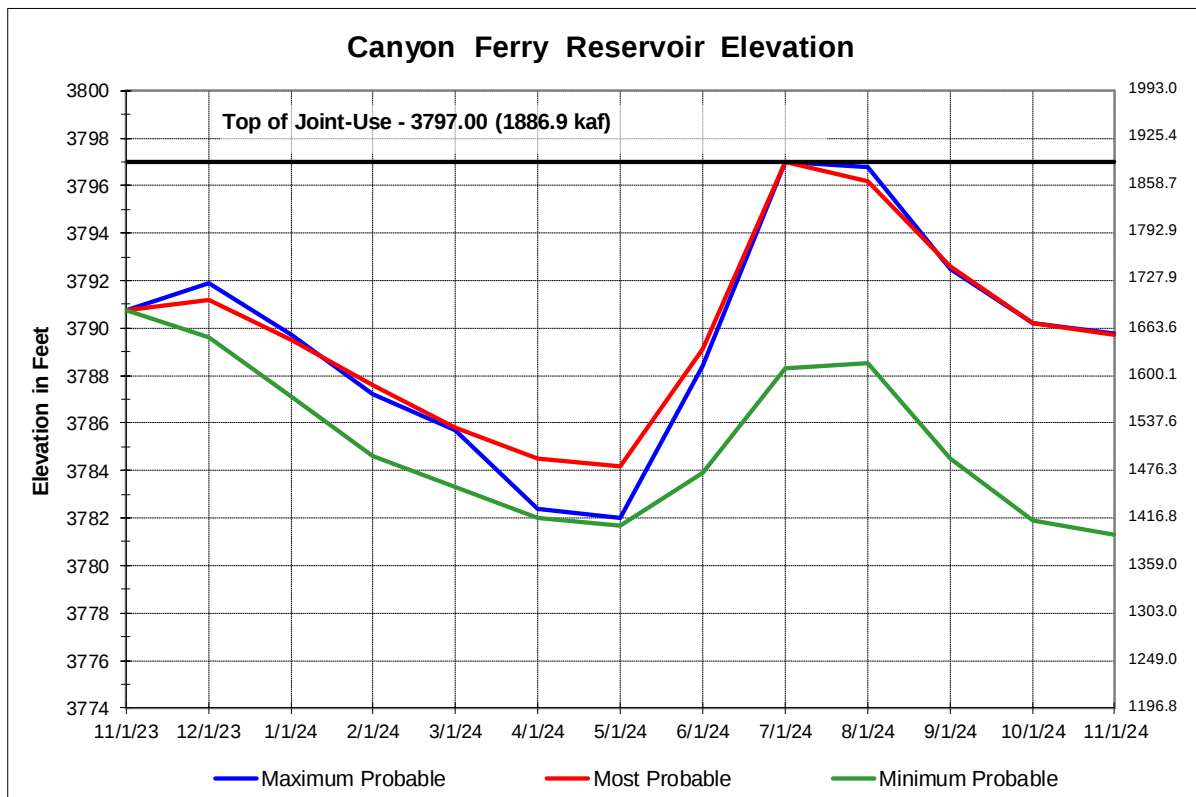


Canyon Ferry Dam Elevation (ft)



Operating Outlook

The graphs below depict a range of possible reservoir elevations and river releases over time. The most probable, maximum, and minimum plans are based upon ranges of possible inflow volumes due to basin variabilities and forecast uncertainties.



Most Probable Inflow Conditions

Most Probable Inflow Conditions						Canyon Ferry Reservoir				Initial	Elev.	3790.75 ft		
	2023	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Reservoir Inflow	kaf	270.0	235.0	225.0	215.0	257.0	313.0	530.0	684.0	283.0	138.0	170.0	230.0	3550.0
HV Canal Diversions	kaf	0.0	0.0	0.0	0.0	0.0	8.0	16.0	17.9	18.0	18.0	11.0	0.0	88.9
HV Pump Turbines	kaf	0.0	0.0	0.0	0.0	0.0	10.2	19.4	19.1	18.0	18.7	12.1	0.0	97.5
Turbine Release	cfs	3045	3060	3106	3157	3205	3235	3163	3002	2927	2969	3033	3068	
Spill	kaf	74.6	99.9	96.5	87.3	99.0	113.3	146.3	204.6	95.0	43.8	43.9	55.9	1160.1
Generation	gwh	23.688	24.478	24.478	22.898	24.478	23.688	24.478	23.688	24.478	24.478	23.688	24.478	288.996
River Release	cfs	4299	4685	4676	4675	4816	5311	5858	6761	4765	3986	3975	3976	
End-Month Content	kaf	1690.0	1636.9	1574.4	1520.5	1481.4	1470.4	1624.2	1888.0	1860.0	1734.9	1657.4	1642.9	
End-Month Elevation	ft	3791.2	3789.5	3787.6	3785.8	3784.5	3784.2	3789.1	3797.0	3796.2	3792.6	3790.2	3789.7	
Holter Dam Release	cfs	4400	4799	4799	4800	4999	5500	6000	6988	4830	4100	4101	4100	

Minimum Probable Inflow Conditions

		2023	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Reservoir Inflow	kaf		220.0	185.0	190.0	190.0	203.0	233.0	296.0	350.0	235.0	105.0	135.0	192.0	2534.0
HV Canal Diversions	kaf		0.0	0.0	0.0	0.0	0.0	7.0	16.0	17.9	18.0	18.0	11.0	0.0	87.9
HV Pump Turbines	kaf		0.0	0.0	0.0	0.0	0.0	9.4	21.1	21.9	21.0	21.9	14.4	0.0	109.7
Turbine Release	cfs		3064	3110	3183	3242	3280	3280	3131	2970	3051	3079	3188	3280	
Spill	kaf		73.4	74.7	70.7	42.2	39.9	30.5	0.0	0.0	0.0	0.0	0.0	8.0	339.4
River Release	cfs		4297	4324	4333	3976	3929	3951	3474	3338	3393	3435	3430	3410	
Generation	gwh		23.688	24.478	24.478	22.898	24.403	23.472	23.585	22.392	24.106	23.957	23.256	24.180	284.893
End-Month Content	kaf		1640.1	1559.2	1482.8	1444.1	1405.5	1396.4	1462.8	1596.3	1604.7	1480.5	1400.4	1382.7	
End-Month Elevation	ft		3789.6	3787.1	3784.6	3783.3	3782.0	3781.7	3783.9	3788.3	3788.5	3784.5	3781.9	3781.3	
Holter Dam Release	cfs		4400	4399	4399	4099	4100	4101	3500	3501	3500	3500	3501	3500	

Maximum Probable Inflow Conditions

		2023	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Reservoir Inflow	kaf		305.0	255.0	250.0	254.0	312.0	432.0	785.0	1077.0	521.0	175.0	230.0	280.0	4876.0
HV Canal Diversions	kaf		0.0	0.0	0.0	0.0	0.0	11.0	18.4	17.0	18.4	18.4	12.0	0.0	95.2
HV Pump Turbines	kaf		0.0	0.0	0.0	0.0	0.0	14.7	23.0	18.2	18.3	19.1	13.2	0.0	106.5
Turbine Release	cfs		3037	3053	3112	3167	3254	3280	3223	3034	2932	2966	3037	3068	
Spill	kaf		87.7	139.1	135.5	119.4	212.1	221.5	351.0	573.3	312.0	102.2	100.0	102.1	2455.9
Generation	gwh		23.688	24.478	24.478	22.898	24.478	23.472	24.478	23.688	24.478	24.478	23.688	24.478	288.780
River Release	cfs		4511	5315	5315	5243	6704	7250	9306	12974	8304	4939	4939	4728	
End-Month Content	kaf		1712.4	1640.6	1563.8	1516.2	1416.0	1405.6	1600.0	1888.0	1880.0	1732.9	1657.0	1646.3	
End-Month Elevation	ft		3791.9	3789.7	3787.2	3785.7	3782.4	3782.0	3788.4	3797.0	3796.8	3792.5	3790.2	3789.8	
Holter Dam Release	cfs		4701	5500	5500	5501	6979	7500	9695	13791	8673	5232	5201	4999	

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http://www.usbr.gov/gp/lakes_reservoir/wareprts/main_menu.html
<https://www.usbr.gov/gp/hydromet/>