12362000 HUNGRY HORSE RESERVOIR NEAR HUNGRY HORSE, MT

Pend Oreille Basin
South Fork Flathead Subbasin

LOCATION.--Lat 48°20′28″, long 114°00′48″ referenced to North American Datum of 1927, in NE ¼ NE ¼ NW ¼ sec.27, T.30 N., R.19 W., Flathead County, MT, Hydrologic Unit 17010209, in block 14 of Hungry Horse Dam on South Fork Flathead River, 3.8 mi southeast of Hungry Horse, and at river mile 5.3.

DRAINAGE AREA.--1,654 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1951 to current year.

GAGE.--Water-stage recorder equipped with remote indicator in power house. Elevation of gage is 3,196 ft, referenced to the National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). During construction and prior to May 1, 1953, various types of nonrecording gages were used.

COOPERATION.--Capacity table and daily elevations furnished by U.S. Bureau of Reclamation.

REMARKS.--Reservoir and flow are completely controlled by concrete arch-gravity dam; construction began in 1948 and was completed in 1952. Storage began Sept. 21, 1951. Usable capacity is 3,451,000 acre-ft, top of 1.0 ft flashboards; 3,427,000 acre-ft between elevations 3,196 ft, lowest outlet, and 3,560 ft, controlled spillway elevation. Dead storage is 39,730 acre-ft below elevation 3,196 ft. Minimum operating level is 445,400 acre-ft, elevation, 3,336 ft for on-site power generation. Water is used for power production, flood control, irrigation and recreation. Controlled spillway is an adjustable ring gate with 1.0 ft flashboards. Figures given herein represent usable contents. Capacity table in use is dated August 1969, with a reduction for dead-storage of 39,730 acre-feet.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 3,461,000 acre-ft, July 3, 4, 1955, Aug. 6, 1956; maximum elevation observed, 3,561.40 ft, July 3, 4, 1955; minimum contents observed after normal low operating level was reached in May 1952, 607,700 acre-ft, Jan. 13, 1953, elevation, 3,362.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 3,413,000 acre-ft, July 10, elevation, 3,559.38 ft; minimum daily, 2,679,000 acre-ft, May 5, elevation, 3,526.03 ft.

CAPACITY TABLE

Elevation, in feet	Contents, in acre-ft
3,500	2,185,000
3,530	2,761,000
3,560	3,427,000

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 12362000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/12362000.2013.pdf

12362000 HUNGRY HORSE RESERVOIR NEAR HUNGRY HORSE, MT—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,549.00	3,547.08	3,549.18	3,548.52	3,539.85	3,536.09	3,536.40	3,526.55	3,545.72	3,558.72	3,557.35	3,553.40
2	3,548.74	3,547.20	3,549.39	3,548.46	3,539.72	3,535.96	3,536.40	3,526.44	3,546.09	3,558.89	3,557.29	3,553.26
3	3,548.73	3,547.35	3,549.57	3,548.27	3,539.52	3,535.94	3,536.48	3,526.27	3,546.51	3,559.01	3,557.16	3,553.15
4	3,548.58	3,547.41	3,549.60	3,548.08	3,539.35	3,535.96	3,536.50	3,526.11	3,546.92	3,559.10	3,557.03	3,553.04
5	3,548.46	3,547.41	3,549.60	3,547.93	3,539.18	3,535.87	3,536.64	3,526.03	3,547.33	3,559.19	3,556.88	3,552.92
6	3,548.31	3,547.33	3,549.73	3,547.76	3,539.04	3,535.79	3,536.87	3,526.06	3,547.89	3,559.27	3,556.82	3,552.78
7	3,548.18	3,547.32	3,549.78	3,547.57	3,538.89	3,535.77	3,536.97	3,526.41	3,548.55	3,559.31	3,556.67	3,552.70
8	3,548.03	3,547.30	3,549.81	3,547.54	3,538.70	3,535.67	3,536.89	3,527.02	3,549.74	3,559.29	3,556.53	3,552.60
9	3,547.92	3,547.27	3,549.76	3,547.40	3,538.55	3,535.58	3,536.66	3,527.99	3,550.77	3,559.37	3,556.42	3,552.48
10	3,547.78	3,547.22	3,549.74	3,547.03	3,538.38	3,535.52	3,536.43	3,529.27	3,551.68	3,559.38	3,556.28	3,552.40
11	3,547.62	3,547.27	3,549.72	3,546.64	3,538.20	3,535.46	3,536.03	3,530.59	3,552.41	3,559.36	3,556.17	3,552.28
12	3,547.51	3,547.34	3,549.67	3,546.14	3,538.09	3,535.41	3,535.59	3,532.21	3,553.10	3,559.35	3,556.01	3,552.15
13	3,547.47	3,547.39	3,549.59	3,545.73	3,537.98	3,535.39	3,535.09	3,534.88	3,553.72	3,559.33	3,555.91	3,552.02
14	3,547.33	3,547.45	3,549.51	3,545.36	3,537.86	3,535.43	3,534.53	3,537.92	3,554.26	3,559.28	3,555.78	3,551.91
15	3,547.27	3,547.51	3,549.43	3,544.92	3,537.72	3,535.51	3,533.91	3,539.96	3,554.61	3,559.21	3,555.62	3,551.80
16	3,547.29	3,547.53	3,549.36	3,544.53	3,537.60	3,535.69	3,533.29	3,540.75	3,554.95	3,559.13	3,555.47	3,551.64
17	3,547.13	3,547.53	3,549.31	3,544.07	3,537.50	3,535.90	3,532.63	3,541.27	3,555.28	3,559.05	3,555.36	3,551.56
18	3,547.07	3,547.58	3,549.17	3,543.61	3,537.39	3,536.05	3,531.97	3,541.68	3,555.60	3,559.00	3,555.24	3,551.56
19	3,546.99	3,547.72	3,549.11	3,543.13	3,537.24	3,536.14	3,531.30	3,542.11	3,556.17	3,558.92	3,555.08	3,551.48
20	3,546.93	3,547.82	3,548.99	3,542.66	3,537.13	3,536.39	3,530.72	3,542.42	3,556.73	3,558.84	3,554.95	3,551.39
21	3,546.92	3,548.06	3,549.04	3,542.27	3,537.01	3,536.43	3,530.19	3,542.81	3,556.91	3,558.76	3,554.84	3,551.30
22	3,546.84	3,548.21	3,548.98	3,541.90	3,536.92	3,536.46	3,529.56	3,543.22	3,557.13	3,558.64	3,554.69	3,551.15
23	3,546.80	3,548.38	3,548.99	3,541.52	3,536.79	3,536.55	3,528.90	3,543.96	3,557.25	3,558.54	3,554.55	3,551.07
24	3,546.73	3,548.51	3,548.92	3,541.22	3,536.69	3,536.60	3,528.23	3,544.34	3,557.33	3,558.43	3,554.43	3,550.95
25	3,546.63	3,548.61	3,548.88	3,540.98	3,536.55	3,536.54	3,527.57	3,544.31	3,557.58	3,558.33	3,554.26	3,550.86
26	3,546.54	3,548.71	3,548.82	3,540.77	3,536.40	3,536.50	3,526.94	3,544.17	3,557.80	3,558.20	3,554.16	3,550.76
27	3,546.49	3,548.76	3,548.80	3,540.54	3,536.27	3,536.46	3,526.42	3,544.04	3,558.01	3,558.05	3,554.04	3,550.62
28	3,546.49	3,548.76	3,548.75	3,540.44	3,536.19	3,536.43	3,526.44	3,544.16	3,558.20	3,557.93	3,553.90	3,550.57
29	3,546.59	3,548.87	3,548.69	3,540.27	---	3,536.43	3,526.54	3,544.52	3,558.40	3,557.78	3,553.83	3,550.49
30	3,546.75	3,548.99	3,548.67	3,540.12	---	3,536.40	3,526.67	3,544.98	3,558.55	3,557.67	3,553.62	3,550.40
31	3,546.94	---	3,548.57	3,539.99	---	3,536.43	---	3,545.34	---	3,557.49	3,553.50	---
Max	3,549.00	3,548.99	3,549.81	3,548.52	3,539.85	3,536.60	3,536.97	3,545.34	3,558.55	3,559.38	3,557.35	3,553.40
Min	3,546.49	3,547.08	3,548.57	3,539.99	3,536.19	3,535.39	3,526.42	3,526.03	3,545.72	3,557.49	3,553.50	3,550.40

USEABLE CONTENTS IN THOUSANDS OF ACRE-FEET, AT END OF MONTH

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
3,126	3,172	3,162	2,972	2,891	2,896	2,694	3,090	3,393	3,368	3,275	3,204

CHANGE IN CONTENTS, IN ACRE-FEET

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-49,000	+46,000	-10,000	-190,000	-81,000	+5,000	-203,000	+397,000	+303,000	-25,000	-93,000	-71,000

Calendar Year 2012……....+159,000

Water Year 2012……...…….+29,000