

Water-Data Report 2012

13057300 GRAYS LAKE DIVERSION TO BLACKFOOT RIVER BASIN NEAR WAYAN, ID

Upper Snake Basin
Willow Subbasin

LOCATION.--Lat 43°00'20", long 111°29'37" referenced to North American Datum of 1983, in NW ¼ NE ¼ NE ¼ sec.11, T.5 S., R.42 E., Caribou County, ID, Hydrologic Unit 17040205, on the left bank, 0.5 miles downstream from the control head gates, 3 miles upstream from Meadow Creek, and 6.7 miles west of Wayan.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--1927-43, 1945, 1947, 1949-50 (irrigation seasons only), June 1966 to September 1970, March 2000 to September 2004 (irrigation seasons only), November 2010 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,369.34 ft above NVDG of 1929. Prior to Oct. 1999 at datum 3.00 ft lower.

COOPERATION.--Station operated by USGS in cooperation with the U.S. Fish and Wildlife Service.

REMARKS.--Site is a diversion from Grays Lake to supplement irrigation flows in the Blackfoot River drainage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 618 ft³/s June 2, 2011, gage height 8.17 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 605 ft³/s, May 9, gage height 8.11 ft; minimum daily, 0.01 many days in Aug. and Sept.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.09	0.16	e0.25	e1.1	e1.3	e1.2	22	12	375	1.0	e0.15	e0.01
2	0.09	0.16	e0.26	e1.1	e1.4	e1.2	e22	12	301	0.95	e0.15	e0.02
3	0.08	0.17	e0.28	e1.2	e1.4	e1.2	22	12	254	0.79	0.12	e0.02
4	0.09	0.16	e0.30	e1.2	e1.3	e1.2	22	49	191	0.51	0.18	e0.02
5	0.11	0.15	e0.32	e1.2	e1.3	e1.2	22	97	114	e0.20	0.15	e0.02
6	0.12	0.14	e0.38	e1.2	e1.2	e1.2	22	96	141	e0.21	0.11	e0.01
7	0.10	0.14	e0.41	e1.3	e1.2	e1.2	33	148	174	e0.19	0.09	e0.01
8	0.09	0.14	e0.44	e1.2	e1.0	e1.2	42	234	173	e0.19	0.08	e0.01
9	0.08	0.14	e0.47	e1.3	e1.0	e1.2	42	375	173	e0.19	0.07	e0.01
10	0.07	0.15	e0.50	e1.3	e1.1	e1.2	42	581	172	e0.19	0.06	e0.01
11	0.09	0.14	e0.53	e1.4	e1.1	e1.2	31	526	172	e0.19	0.06	e0.01
12	0.07	0.16	e0.56	e1.4	e1.1	e1.2	12	482	170	e0.20	0.05	e0.01
13	0.08	0.17	e0.58	e1.4	e1.2	e1.2	12	479	169	e0.19	0.04	e0.01
14	0.11	e0.16	e0.61	e1.5	e1.3	e1.2	12	430	160	e0.20	0.04	e0.01
15	0.11	e0.18	e0.63	e1.5	e1.2	e1.2	12	313	147	e0.18	0.05	e0.01
16	0.11	e0.20	e0.64	e1.5	e1.2	e1.1	10	273	147	e0.18	0.04	e0.01
17	0.13	e0.21	e0.65	e1.6	e1.1	e1.1	12	274	146	e0.18	0.04	e0.01
18	0.13	e0.22	e0.71	e1.6	e1.1	e1.0	12	274	128	e0.18	0.05	e0.01
19	0.13	e0.21	e0.72	e1.6	e1.2	e0.90	12	355	108	e0.18	0.05	e0.01
20	0.13	e0.22	e0.73	e1.6	e1.1	e0.84	12	412	87	e0.18	0.04	e0.01
21	0.22	e0.23	e0.75	e1.5	e1.2	e0.87	12	337	65	e0.17	e0.02	e0.01
22	0.21	e0.22	e0.75	e1.5	e1.3	e0.90	12	265	65	e0.17	e0.01	e0.01
23	0.18	e0.22	e0.77	e1.5	e1.3	e0.86	12	264	65	e0.17	e0.01	e0.02
24	0.19	e0.22	e0.81	e1.4	e1.2	e2.5	12	264	64	e0.17	e0.01	e0.03
25	0.18	e0.23	e0.83	e1.3	e1.2	e3.6	12	262	39	e0.17	e0.01	e0.03
26	0.18	e0.24	e0.83	e1.3	e1.1	10	12	262	3.2	e0.17	e0.01	e0.03
27	0.17	e0.24	e0.82	e1.2	e1.1	e22	e12	264	2.3	e0.17	e0.01	e0.02
28	0.16	e0.25	e0.84	e1.2	e1.2	e22	e12	265	1.8	e0.17	e0.02	e0.02
29	0.17	e0.25	e1.1	e1.3	e1.2	e22	e12	359	1.4	e0.16	e0.01	e0.02
30	0.17	e0.25	e1.1	e1.3	---	22	e12	414	1.2	e0.15	e0.01	e0.02
31	0.17	---	e1.1	e1.3	---	22	---	382	---	e0.15	e0.01	---
Total	4.01	5.73	19.67	42.0	34.6	151.67	548	8,772	3,809.9	8.10	1.75	0.45
Mean	0.13	0.19	0.63	1.35	1.19	4.89	18.3	283	127	0.26	0.06	0.01
Max	0.22	0.25	1.1	1.6	1.4	22	42	581	375	1.0	0.18	0.03
Min	0.07	0.14	0.25	1.1	1.0	0.84	10	12	1.2	0.15	0.01	0.01
Ac-ft	8.0	11	39	83	69	301	1,090	17,400	7,560	16	3.5	0.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.78	1.56	1.79	1.06	0.85	1.49	14.2	163	159	26.6	0.97	0.34
Max	2.24	3.62	5.48	2.48	1.91	4.89	46.0	494	435	179	6.88	1.51
(WY)	(1968)	(1968)	(1967)	(1968)	(2011)	(2012)	(1967)	(2011)	(2011)	(2011)	(1968)	(1967)
Min	0.00	0.19	0.20	0.20	0.17	0.21	0.30	0.08	0.18	0.09	0.01	0.00
(WY)	(1967)	(2012)	(1970)	(1970)	(1970)	(1970)	(2003)	(2003)	(2003)	(2000)	(1966)	(2000)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1966 - 2012	
Annual total	34,730.03		13,397.88			
Annual mean	95.2		36.6		42.4	
Highest annual mean					52.1	1970
Lowest annual mean					36.6	2012
Highest daily mean	604	Jun 2	581	May 10	604	Jun 2, 2011
Lowest daily mean	0.07	Oct 10	0.01	Aug 22	0.00	Jul 26, 1966
Annual seven-day minimum	0.08	Oct 7	0.01	Sep 6	0.00	Aug 5, 1966
Annual runoff (ac-ft)	68,890		26,570		30,680	
10 percent exceeds	513		152		208	
50 percent exceeds	1.8		0.90		0.70	
90 percent exceeds	0.17		0.02		0.10	

