

Water-Data Report 2009

13132500 BIG LOST RIVER NEAR ARCO, ID

Upper Snake Basin
Big Lost Subbasin

LOCATION.--Lat 43°34'55", long 113°16'15" referenced to North American Datum of 1983, in SW ¼ SE ¼ SW ¼ sec.17, T.3 N., R.27 E., Butte County, ID, Hydrologic Unit 17040218, Arco South quad., on right bank 0.4 mi downstream from slough entering from left bank, and 4 mi southeast of Arco.

DRAINAGE AREA.--1,410 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1946 to September 1961, May 1966 to September 1980, March to September 1981, May 1982 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,240 ft above NGVD of 1929, by barometer. Prior to Oct. 14, 1952, at site 800 ft upstream at datum 3.08 ft higher.

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow regulated by Mackay Reservoir (see station 13126000). Station is below all large diversions for irrigation in Big Lost River valley. About 57,500 acres of land irrigated by diversions from river and tributaries and by groundwater withdrawals above station. About 10,200 acres irrigated by sub-irrigation above Mackay Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft³/s July 5, 1967, gage height, 7.68 ft; no flow for long periods many years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1965, reached a stage of 8.03 ft, from flood marks, discharge, 2,500 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 388 ft³/s June 23, gage height 4.73 ft; no flow on many days

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54	e14	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112	e3.0	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	133	e0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109	e0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91	e0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107	e0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	137	e0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145	e0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	155	e0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	173	e0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	169	e0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	180	e0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	237	e0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	323	e0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	368	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	358	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	271	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	221	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	237	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	239	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	210	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	139	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,168.00	506.00	0.00	0.00
Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	139	16.3	0.00	0.00
Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	368	129	0.00	0.00
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ac-ft	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,270	1,000	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	69.6	74.7	63.8	52.0	54.2	72.7	84.9	118	228	124	42.8	61.7
Max	371	759	614	347	314	390	653	841	1,118	918	502	395
(WY)	(1985)	(1984)	(1984)	(1984)	(1984)	(1984)	(1969)	(1984)	(1983)	(1967)	(1984)	(1984)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1961)	(1961)	(1989)	(1961)	(1961)	(1989)	(1961)	(1961)	(1960)	(1961)	(1960)	(1960)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1946 - 2009	
Annual total	0.00		4,674.00			
Annual mean	0.00		12.8		86.3	
Highest annual mean					546	1984
Lowest annual mean					0.00	1989
Highest daily mean	0.00	Jan 1	368	Jun 23	1,840	Jul 5, 1967
Lowest daily mean	0.00	Jan 1	0.00	Oct 1	0.00	May 14, 1960
Annual seven-day minimum	0.00	Jan 1	0.00	Oct 1	0.00	May 14, 1960
Annual runoff (ac-ft)	0.00		9,270		62,510	
10 percent exceeds	0.00		0.00		224	
50 percent exceeds	0.00		0.00		24	
90 percent exceeds	0.00		0.00		0.00	

