

Water-Data Report 2010

07054502 WHITE RIVER BELOW BULL SHOALS DAM AT BULL SHOALS, AR

Upper White Basin
Bull Shoals Lake Subbasin

LOCATION.--Lat 36°21'44", long 92°35'11" referenced to North American Datum of 1983, in SE ¼ NW ¼ SE ¼ sec.20, T.20 N., R.15 W., Marion County, AR, Hydrologic Unit 11010003, and 3 mi southeast of Bull Shoals.

DRAINAGE AREA.--6,050 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1994 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May 1994 to current year.

DISSOLVED OXYGEN: May 1994 to current year.

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Dissolved oxygen and water temperature are collected continuously Jun through Dec. Water-quality records are good. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 19.8°C, Aug. 26; minimum, 6.7°C, Dec. 26.

DISSOLVED OXYGEN: Maximum, 21.2 mg/L, Aug. 25, 26; minimum, 4.2 mg/L, Oct. 6, 7.

07054502 WHITE RIVER BELOW BULL SHOALS DAM AT BULL SHOALS, AR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	17.0	13.2	13.8	14.8	13.8	14.1	13.8	13.7	13.8	---	---	---
2	14.9	13.2	13.7	14.8	13.8	14.1	13.8	13.7	13.8	---	---	---
3	14.7	13.0	13.8	14.7	13.8	14.1	14.3	13.2	13.9	---	---	---
4	13.8	13.3	13.5	14.7	13.6	14.0	13.9	13.6	13.8	---	---	---
5	13.9	13.5	13.6	14.6	13.6	14.0	13.7	13.5	13.6	---	---	---
6	14.0	13.5	13.7	14.7	13.6	14.1	13.5	13.3	13.4	---	---	---
7	14.0	13.8	13.9	14.8	13.6	14.1	13.5	13.3	13.4	---	---	---
8	17.6	13.8	14.1	14.8	13.8	14.2	13.4	13.3	13.4	---	---	---
9	17.8	14.0	15.4	14.5	14.0	14.1	13.3	12.8	13.0	---	---	---
10	14.6	13.6	14.0	15.0	13.9	14.3	12.8	12.6	12.7	---	---	---
11	14.0	13.6	13.8	14.7	13.8	14.2	12.7	12.4	12.5	---	---	---
12	14.0	13.6	13.8	14.5	13.7	14.0	12.4	12.3	12.4	---	---	---
13	14.0	13.8	13.9	14.6	13.6	13.9	12.3	12.1	12.3	---	---	---
14	14.2	13.9	14.0	14.6	13.8	14.1	12.2	12.0	12.1	---	---	---
15	14.1	13.9	14.0	14.7	14.0	14.2	12.1	11.8	12.0	---	---	---
16	14.5	13.9	14.3	14.3	13.7	14.1	11.9	11.7	11.8	---	---	---
17	14.5	13.5	14.1	14.2	13.7	14.2	11.8	11.5	11.7	---	---	---
18	14.6	13.5	14.0	14.3	14.0	14.2	11.7	11.5	11.6	---	---	---
19	14.6	13.4	13.9	14.7	13.8	14.1	11.5	11.3	11.4	---	---	---
20	14.7	13.6	14.0	14.4	13.8	14.1	11.4	11.2	11.3	---	---	---
21	14.4	13.7	13.9	14.4	14.0	14.2	11.2	11.1	11.2	---	---	---
22	14.2	13.8	14.0	14.6	13.9	14.1	11.1	10.9	11.0	---	---	---
23	14.5	14.1	14.3	14.2	13.9	14.0	11.0	10.9	10.9	---	---	---
24	14.9	13.9	14.3	14.1	13.8	13.9	11.1	10.7	11.0	---	---	---
25	14.5	13.8	14.0	14.6	13.8	14.1	10.7	7.4	9.4	---	---	---
26	14.1	13.8	13.9	14.6	13.6	14.1	10.6	6.7	9.1	---	---	---
27	14.1	13.8	14.0	14.6	13.6	14.0	10.3	9.9	10.1	---	---	---
28	14.5	13.6	14.0	14.6	13.6	14.0	10.5	7.3	9.7	---	---	---
29	16.1	13.5	13.9	14.0	13.6	13.8	11.1	8.0	9.9	---	---	---
30	16.8	13.0	14.8	14.4	13.4	13.8	10.0	8.6	9.8	---	---	---
31	14.6	11.8	13.4	---	---	---	9.9	9.5	9.8	---	---	---
Month	17.8	11.8	14.0	15.0	13.4	14.1	14.3	6.7	11.8	---	---	---

07054502 WHITE RIVER BELOW BULL SHOALS DAM AT BULL SHOALS, AR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

07054502 WHITE RIVER BELOW BULL SHOALS DAM AT BULL SHOALS, AR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	10.9	8.2	9.1	16.0	10.6	12.6	13.3	11.8	12.2	13.5	12.9	13.1
2	9.8	8.3	8.6	16.1	10.8	12.6	12.8	11.7	12.0	18.2	12.8	13.6
3	8.8	8.0	8.4	16.3	11.2	12.3	12.8	11.8	12.1	15.9	12.8	13.9
4	8.6	8.2	8.4	13.0	11.0	11.9	16.8	11.9	12.9	18.4	12.8	14.5
5	8.8	8.2	8.5	16.6	10.5	12.2	15.9	11.9	12.8	14.3	12.5	13.2
6	15.2	8.3	9.5	16.0	10.7	12.2	16.1	11.8	13.1	18.1	12.7	14.5
7	8.8	8.5	8.7	15.5	10.7	12.4	14.4	12.1	13.0	14.8	12.8	13.3
8	8.9	8.6	8.7	13.0	10.3	11.4	19.6	12.2	14.2	15.8	13.0	13.9
9	9.0	8.6	8.8	11.8	10.4	10.7	16.7	12.0	12.9	15.2	12.9	13.6
10	9.1	8.7	9.0	11.0	10.5	10.7	14.4	11.9	12.6	18.0	13.1	14.3
11	9.1	8.7	8.8	19.3	10.7	11.9	13.0	12.0	12.3	17.9	13.3	14.7
12	9.4	8.8	9.0	17.6	10.7	12.8	13.3	12.2	12.4	19.4	13.0	14.6
13	9.5	8.9	9.1	14.9	11.3	12.4	17.5	12.1	13.3	14.3	12.9	13.4
14	9.9	8.9	9.1	18.8	10.9	12.7	13.5	12.4	12.8	14.1	13.1	13.3
15	9.8	8.9	9.4	15.3	11.0	12.9	14.7	12.4	13.1	19.4	13.1	14.5
16	9.8	9.4	9.6	18.1	10.8	12.8	17.7	12.2	13.9	15.0	12.9	13.8
17	9.8	9.4	9.6	13.7	11.0	11.5	18.6	12.0	13.2	14.6	13.0	13.5
18	10.1	9.5	9.8	12.8	10.8	11.4	14.1	12.4	12.8	14.3	13.1	13.5
19	10.3	9.6	9.8	12.4	11.0	11.4	14.5	12.5	12.9	14.4	13.2	13.6
20	10.1	9.6	9.9	11.9	11.0	11.3	13.1	12.4	12.7	15.2	13.3	13.6
21	10.2	9.8	10	11.6	11.1	11.2	14.0	12.5	13.1	19.4	13.3	14.0
22	10.3	9.7	10	11.5	11.0	11.2	13.8	12.5	13.0	14.5	13.3	13.7
23	10.6	9.8	10.1	11.6	11.0	11.4	13.2	12.3	12.5	14.4	13.3	13.6
24	10.2	9.7	9.9	12.4	11.3	11.6	19.1	12.7	13.9	14.6	13.3	13.7
25	10.2	9.8	10	12.5	11.4	11.8	18.3	13.3	14.9	14.7	13.3	13.8
26	10.3	9.8	10.0	12.4	11.2	11.5	19.8	12.6	14.0	15.3	13.2	13.9
27	10.5	10.0	10.3	12.4	11.4	11.7	13.9	12.6	12.9	14.3	12.5	13.5
28	10.6	10.3	10.5	14.9	11.7	12.6	16.2	12.7	13.6	14.4	13.0	13.6
29	10.6	10.1	10.3	12.2	11.6	11.9	13.8	12.8	13.1	14.7	13.3	13.7
30	10.6	10.2	10.4	17.4	11.5	12.6	17.9	12.7	13.9	18.2	13.2	14.5
31	---	---	---	13.2	11.6	12.0	14.5	12.7	13.3	---	---	---
Month	15.2	8.0	9.4	19.3	10.3	11.9	19.8	11.7	13.1	19.4	12.5	13.8

07054502 WHITE RIVER BELOW BULL SHOALS DAM AT BULL SHOALS, AR—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	14.3	4.5	7.5	8.6	5.6	7.0	7.0	6.0	6.5	---	---	---
2	11.4	4.7	6.7	9.7	5.1	7.3	7.0	6.6	6.9	---	---	---
3	11.7	5.2	6.7	9.5	5.8	7.1	11.4	7.0	9.3	---	---	---
4	7.8	5.1	6.9	8.8	6.1	7.5	11.1	10.0	10.4	---	---	---
5	7.8	4.6	5.8	8.8	5.5	7.3	10.4	9.7	10.1	---	---	---
6	7.0	4.2	5.9	9.8	5.2	7.0	10.3	9.8	10.0	---	---	---
7	8.4	4.2	6.6	9.2	5.0	7.0	11.9	9.6	10.8	---	---	---
8	8.9	4.4	5.6	9.9	5.6	7.2	11.8	11.6	11.7	---	---	---
9	9.2	7.2	8.6	9.1	5.4	7.1	11.9	11.1	11.5	---	---	---
10	9.2	5.4	7.7	10.0	5.0	7.0	11.6	11.1	11.4	---	---	---
11	9.9	6.2	7.9	8.5	5.0	6.7	11.3	10.9	11.2	---	---	---
12	10.0	6.2	7.9	9.4	4.8	6.7	11.1	10.6	10.9	---	---	---
13	9.7	6.3	8.2	8.8	4.9	7.2	11.0	10.3	10.7	---	---	---
14	10.1	6.1	8.0	9.2	5.3	7.2	11.1	10.3	10.8	---	---	---
15	9.5	7.2	7.8	8.6	5.1	6.6	11.4	10.7	11.1	---	---	---
16	9.6	6.0	7.7	6.9	5.5	6.2	11.3	10.8	11.1	---	---	---
17	10.4	6.1	7.8	8.1	5.6	6.5	11.3	8.4	10.2	---	---	---
18	11.2	6.1	8.2	8.5	6.0	7.1	11.1	8.3	9.6	---	---	---
19	10.6	7.5	8.6	9.2	6.0	7.4	11.1	10.5	10.9	---	---	---
20	10.4	4.7	8.2	10.4	6.4	8.1	10.9	10.4	10.7	---	---	---
21	9.1	4.7	6.5	9.4	8.0	8.4	10.8	10.1	10.5	---	---	---
22	8.8	5.6	6.9	10.1	6.0	7.9	10.2	9.9	10.0	---	---	---
23	9.0	6.2	7.5	8.2	6.3	7.3	10.3	8.7	9.4	---	---	---
24	10.0	6.6	8.0	8.5	5.3	7.2	9.1	8.6	8.9	---	---	---
25	10.1	6.6	7.8	10.2	7.4	8.4	11.2	8.8	9.7	---	---	---
26	9.0	6.3	7.4	10.7	7.3	8.6	10.7	9.5	9.9	---	---	---
27	8.2	5.6	7.2	9.9	7.4	8.6	10.4	9.9	10.2	---	---	---
28	8.6	5.9	7.5	10.5	7.1	8.6	10.9	8.7	9.9	---	---	---
29	8.4	5.4	7.3	8.7	7.0	7.9	11.4	9.4	10.0	---	---	---
30	12.0	5.1	8.5	10.2	7.0	8.7	10.8	9.5	10.2	---	---	---
31	11.4	5.7	7.7	---	---	---	11.0	9.4	10.3	---	---	---
Month	14.3	4.2	7.4	10.7	4.8	7.4	11.9	6.0	10.2	---	---	---

07054502 WHITE RIVER BELOW BULL SHOALS DAM AT BULL SHOALS, AR—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

07054502 WHITE RIVER BELOW BULL SHOALS DAM AT BULL SHOALS, AR—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	12.3	6.9	9.1	18.6	7.8	11.6	10.5	7.6	8.6	10.6	6.3	8.2
2	10.4	8.5	9.6	17.6	6.7	11.1	10.8	6.6	8.0	20.3	6.7	9.6
3	10.9	9.4	10.0	20.0	6.4	10.8	10.3	6.4	8.2	14.3	8.5	11.0
4	10.4	9.3	9.8	13.7	6.6	9.2	18.8	5.6	8.2	18.7	8.5	11.8
5	10.9	9.9	10.2	18.4	7.0	10.5	16.8	5.8	7.6	10.9	8.5	9.7
6	20.3	9.2	10.9	17.5	6.9	9.3	15.5	6.2	7.5	18.1	6.2	10.2
7	10.2	9.4	9.8	18.7	7.2	9.7	11.5	7.5	9.4	10.7	6.0	9.3
8	10.3	9.3	9.7	14.1	7.1	8.3	15.8	5.1	9.1	15.1	5.3	7.6
9	10.6	9.4	10	9.2	7.4	8.1	16.8	5.7	8.0	9.3	6.8	8.3
10	10.7	9.4	10.2	9.7	7.6	8.5	11.4	6.1	7.8	16.3	5.4	9.3
11	10.7	9.3	10.2	9.8	8.2	9.1	10.1	6.3	8.0	16.1	7.9	9.9
12	11.1	9.6	10.4	15.5	6.6	8.9	10.0	6.1	7.4	16.0	6.7	10.3
13	11.1	10.0	10.5	10.7	7.4	9.2	17.3	5.5	7.2	10.5	6.4	8.7
14	11.4	9.5	10.3	17.9	6.2	8.7	10.1	6.0	7.6	10.7	5.8	8.0
15	10.4	9.2	9.9	18.1	6.2	8.6	12.0	7.1	9.1	17.4	5.6	8.8
16	9.8	9.0	9.3	20.2	6.2	9.1	16.6	5.5	8.5	11.4	6.3	9.2
17	10.0	9.0	9.5	9.4	7.2	8.2	18.5	5.5	7.6	11.7	5.2	8.3
18	10.2	9.0	9.4	10.4	7.2	8.6	10.4	6.9	8.2	9.9	5.6	8.2
19	10.0	9.1	9.4	10.1	7.2	8.8	10.6	6.1	8.1	9.1	5.6	7.9
20	9.6	8.9	9.2	9.5	7.2	8.3	9.3	6.5	7.8	10.8	5.5	8.0
21	10.3	8.9	9.4	8.9	7.0	8.0	9.7	6.6	8.2	17.7	4.8	7.4
22	9.8	8.9	9.4	9.3	7.0	7.9	8.6	5.5	6.9	10.5	5.3	7.5
23	11.1	8.8	9.4	8.9	7.2	7.9	7.5	5.5	6.1	9.5	5.7	7.6
24	10.3	8.7	9.5	10.1	7.3	8.3	19.5	5.3	8.6	9.9	5.5	8.0
25	10.2	8.5	9.1	9.8	7.0	8.2	21.2	4.9	9.9	11.5	7.8	9.2
26	9.9	8.4	9.1	10.0	7.2	8.0	21.2	5.0	9.3	17.7	6.4	10.8
27	9.9	8.5	9.0	11.4	7.5	8.6	10.5	6.2	8.3	8.8	5.3	7.2
28	10.3	8.6	9.3	15.3	5.9	8.9	13.6	7.3	9.7	9.8	5.6	7.8
29	10.3	8.5	9.3	10.0	7.1	8.4	10.6	7.2	8.8	9.5	5.6	7.9
30	10.4	8.5	9.5	19.5	6.2	8.7	19.6	5.1	8.1	18.4	5.9	9.8
31	---	---	---	10.3	7.3	8.5	11.2	6.6	8.7	---	---	---
Month	20.3	6.9	9.7	20.2	5.9	8.9	21.2	4.9	8.2	20.3	4.8	8.8