10313400 Marys River Below Orange Bridge Near Charleston, NV

Humboldt Basin
Upper Humboldt Subbasin

LOCATION.--Lat 41°33′00″, long 115°18′21″ referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.9, T.42 N., R.59 E., Elko County, NV, Hydrologic Unit 16040101, on right bank, 5 mi below Orange Bridge, and approximately 14 mi southeast of Charleston.

DRAINAGE AREA.--72 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,860 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,340 ft^3/s, May 16, 2005, gage height, 6.31 ft; no flow some days, some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 17	1045	309	4.08
Apr 2	0015	228	3.69
Apr 18	0115	605	5.33
May 14	2315	*1,000	*6.12
Jun 16	0000	549	4.90

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 10313400, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/10313400.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated; &, affected value]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.12	11	e13	e11	26	18	167	117	207	222	14	0.40
2	0.11	11	17	e11	25	18	193	123	234	197	12	0.56
3	0.12	11	18	e11	34	17	164	143	216	195	12	0.83
4	0.35	11	17	e11	41	16	142	169	215	191	10	0.94
5	0.56	11	17	e11	32	16	134	218	257	176	9.0	0.76
6	1.1	11	17	e11	28	18	129	304	339	158	8.4	0.76
7	1.3	12	17	e11	27	18	126	437	364	143	7.6	0.89
8	1.4	15	17	e11	24	17	115	546	366	134	6.7	0.85
9	1.8	12	18	e12	20	18	105	456	371	117	5.9	0.81
10	1.8	13	20	e13	21	20	98	354	375	102	5.2	0.79
11	1.7	11	19	e14	22	25	101	341	371	90	4.6	0.94
12	1.7	11	21	e16	22	27	107	407	379	81	4.1	1.3
13	1.8	12	24	e18	21	29	118	515	443	73	4.0	1.7
14	1.8	13	24	20	22	38	111	712	467	69	3.6	2.0
15	1.8	19	23	19	22	46	109	823	493	63	3.2	2.4
16	1.9	21	18	24	23	79	135	564	491	56	3.0	3.6
17	1.9	19	24	214	25	74	351	414	391	50	2.9	5.6
18	2.0	17	33	145	24	66	506	308	338	44	2.4	4.5
19	2.0	16	31	101	23	61	370	276	352	40	2.1	3.6
20	2.1	17	24	74	23	57	278	284	293	37	1.7	2.8
21	2.1	12	22	75	21	56	230	306	295	33	1.6	2.3
22	2.2	15	21	62	19	52	188	334	339	30	1.3	2.1
23	2.6	13	20	46	20	47	169	395	404	27	1.1	1.9
24	20	11	16	50	18	49	167	350	423	24	1.1	1.8
25	72	e11	17	44	19	47	159	317	380	21	0.94	1.5
26	22	e11	21	38	19	45	145	352	324	18	0.90	1.3
27	16	e11	18	36	21	43	133	311	287	17	0.65	1.4
28	14	e11	18	36	20	42	134	267	287	16	0.62	1.4
29	13	e12	15	37	---	39	128	233	284	13	0.72	1.4
30	12	e12	&11	36	---	49	119	219	252	12	0.64	1.3
31	11	---	e11	33	---	110	---	198	---	14	0.52	---
Total	214.26	393	602	1,251	662	1,257	5,131	10,793	10,237	2,463	132.49	52.43
Mean	6.91	13.1	19.4	40.4	23.6	40.5	171	348	341	79.5	4.27	1.75
Max	72	21	33	214	41	110	506	823	493	222	14	5.6
Min	0.11	11	11	11	18	16	98	117	207	12	0.52	0.40
Ac-ft	425	780	1,190	2,480	1,310	2,490	10,180	21,410	20,310	4,890	263	104

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.87	6.88	7.98	11.6	14.2	47.2	123	219	128	18.3	1.36	1.23
Max	7.65	13.1	19.4	40.4	51.3	139	328	540	341	79.5	5.66	4.62
(WY)	(1999)	(2011)	(2011)	(2011)	(1996)	(1996)	(2006)	(2006)	(2011)	(2011)	(1993)	(1998)
Min	1.02	2.10	1.61	3.73	4.48	14.0	47.5	47.1	7.04	1.04	0.00	0.00
(WY)	(1996)	(2004)	(2004)	(1994)	(2001)	(2010)	(1994)	(1992)	(1992)	(2007)	(2001)	(2007)

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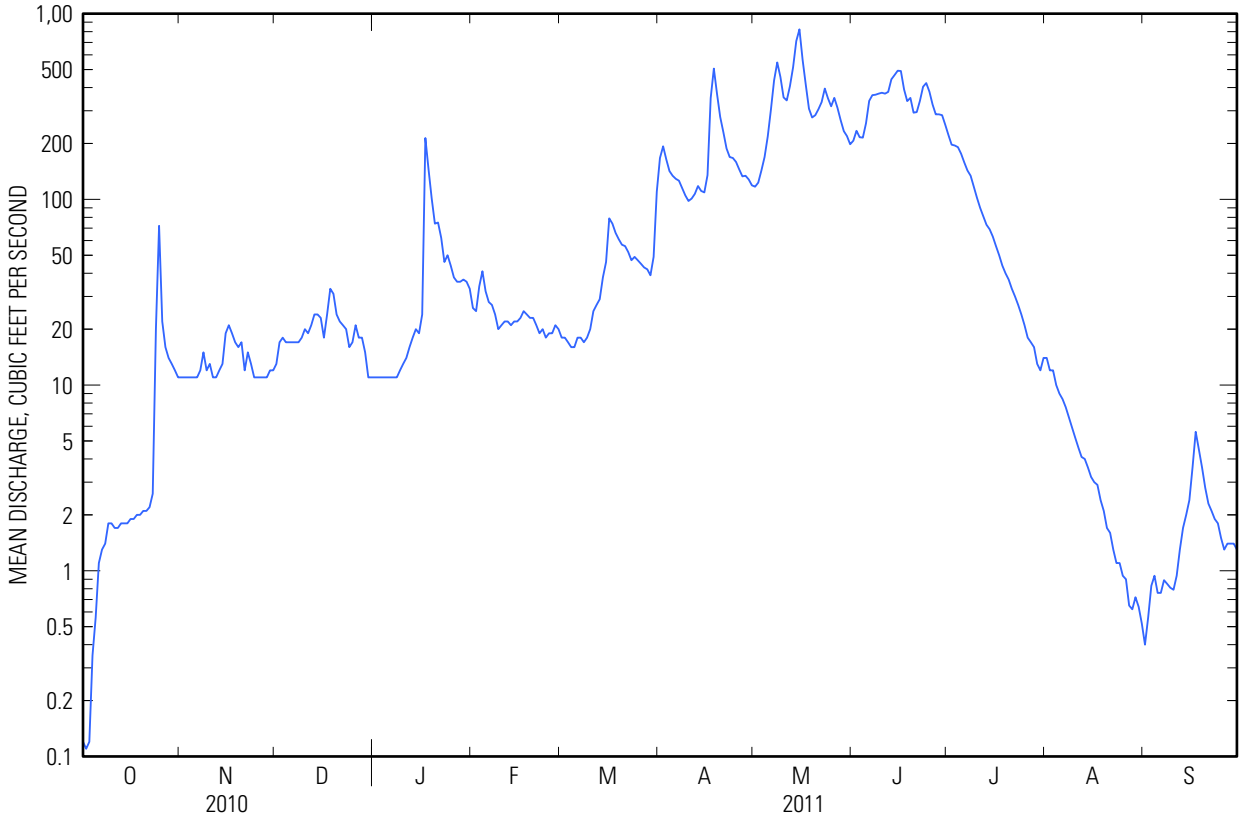
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1992 - 2011	
Annual total	16,076.67		33,188.18			
Annual mean	44.0		90.9		48.6	
Highest annual mean					96.8	2006
Lowest annual mean					15.8	1992
Highest daily mean	526	Jun 7	823	May 15	907	May 19, 2006
Lowest daily mean	0.00	Sep 4	0.11	Oct 2	0.00	Aug 17, 1994
Annual seven-day minimum	0.00	Sep 4	0.52	Oct 1	0.00	Aug 17, 1994
Maximum peak flow			1,000	May 14	1,340	May 16, 2005
Maximum peak stage			6.12	May 14	6.31	May 16, 2005
Annual runoff (ac-ft)	31,890		65,830		35,190	
10 percent exceeds	142		328		160	
50 percent exceeds	11		21		8.5	
90 percent exceeds	0.14		1.6		0.39	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Nov. 1991 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Nov. 1991 to current year.

INSTRUMENTATION.--Water temperature monitor since Nov. 1991, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to periods of little to no flow (see Water-Discharge Records).

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 32.0°C, Aug. 12, 1992; minimum, 0.0°C, on many days during winter months, most years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 19.5°C, Aug. 1; minimum, 0.0°C, many days during winter months.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	16.0	11.0	13.5	7.0	3.5	5.5	0.5	0.5	0.5	0.5	0.5	0.5
2	16.5	11.5	14.0	7.5	4.0	6.0	0.5	0.5	0.5	0.5	0.5	0.5
3	16.0	12.0	14.0	8.0	4.5	6.5	0.5	0.5	0.5	0.5	0.5	0.5
4	14.5	12.5	13.5	8.5	5.0	7.0	0.5	0.5	0.5	0.5	0.5	0.5
5	14.0	12.5	13.0	8.0	5.0	7.0	0.5	0.5	0.5	0.5	0.5	0.5
6	14.0	11.0	12.5	8.0	5.0	6.5	0.5	0.5	0.5	0.5	0.5	0.5
7	12.0	10.5	11.5	6.5	4.5	5.5	1.0	0.5	0.5	0.5	0.5	0.5
8	12.0	10.0	11.0	6.0	1.5	4.0	0.5	0.5	0.5	0.5	0.5	0.5
9	12.5	10.0	11.5	3.5	1.0	2.5	1.0	0.5	1.0	0.5	0.5	0.5
10	14.0	11.0	13.0	4.5	0.5	3.0	1.5	0.5	1.0	0.5	0.5	0.5
11	13.5	9.0	12.0	3.0	0.5	2.0	2.0	0.5	1.5	0.5	0.5	0.5
12	11.0	8.0	10.0	4.0	0.5	2.5	2.5	0.5	1.5	0.5	0.5	0.5
13	10.5	7.5	9.0	3.0	1.0	2.0	2.5	0.5	1.5	0.5	0.5	0.5
14	10.5	7.5	9.0	4.0	2.5	3.5	2.0	0.5	1.0	0.5	0.5	0.5
15	10.5	8.0	9.5	5.0	3.0	4.5	0.5	0.5	0.5	0.5	0.5	0.5
16	10.0	8.0	9.0	5.0	1.5	3.5	0.5	0.5	0.5	0.5	0.5	0.5
17	10.0	8.0	9.5	3.5	1.0	2.5	0.5	0.5	0.5	0.5	0.5	0.5
18	11.0	8.0	10.0	3.5	1.0	2.0	0.5	0.5	0.5	0.5	0.5	0.5
19	10.0	6.5	8.5	3.5	1.0	3.0	0.5	0.5	0.5	0.5	0.5	0.5
20	9.0	6.5	8.0	3.0	0.0	2.0	0.5	0.5	0.5	0.5	0.5	0.5
21	8.5	6.0	8.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
22	9.5	7.5	8.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	0.5
23	8.0	7.0	8.0	0.5	0.0	0.5	1.5	0.5	1.0	0.5	0.5	0.5
24	8.5	4.5	7.5	0.5	0.0	0.0	1.0	0.5	0.5	0.5	0.5	0.5
25	6.5	3.0	5.0	0.5	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
26	4.5	1.0	3.0	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
27	5.0	1.0	3.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	0.5
28	6.0	2.5	4.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
29	6.5	2.0	4.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30	6.0	3.5	5.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
31	7.0	3.5	5.5	---	---	---	0.5	0.5	0.5	0.5	0.0	0.5
Month	16.5	1.0	9.2	8.5	0.0	2.8	2.5	0.5	0.7	0.5	0.0	0.5

10313400 Marys River Below Orange Bridge Near Charleston, NV—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	0.5	0.0	0.0	0.5	0.0	0.0	10.0	2.0	5.5	10.5	2.5	6.5
2	0.5	0.0	0.0	1.0	0.0	0.5	6.0	1.0	4.0	10.5	3.0	7.5
3	0.5	0.0	0.0	4.0	0.0	1.5	7.0	1.0	3.5	10.5	3.5	7.0
4	0.5	0.5	0.5	3.5	0.0	1.5	7.0	1.0	4.5	11.0	3.5	7.5
5	0.5	0.0	0.5	5.0	0.0	2.5	6.5	1.5	4.5	10.5	4.0	7.5
6	0.5	0.5	0.5	4.0	1.0	2.5	7.0	1.5	4.5	9.5	5.0	7.5
7	0.5	0.0	0.0	3.5	0.0	1.0	6.0	2.0	4.0	9.0	6.5	7.5
8	0.0	0.0	0.0	4.0	0.0	2.0	6.0	2.0	3.5	7.5	5.5	6.5
9	0.5	0.0	0.0	6.5	0.5	3.5	8.0	1.5	4.5	7.5	5.0	6.0
10	0.5	0.0	0.0	6.5	1.0	4.0	8.5	2.0	5.5	7.5	5.5	6.5
11	0.5	0.0	0.0	7.0	1.0	4.0	8.0	2.5	5.5	9.5	6.0	7.5
12	0.5	0.0	0.0	5.0	0.5	3.0	8.5	2.5	5.5	9.5	6.0	7.5
13	1.0	0.0	0.5	6.5	0.5	4.0	6.5	2.0	4.0	9.5	6.0	8.0
14	1.5	0.0	0.5	7.5	2.5	4.5	8.5	2.0	5.0	9.5	6.5	8.0
15	3.5	0.0	1.5	7.0	2.5	4.5	8.0	2.5	5.5	7.5	5.0	6.5
16	1.0	0.0	0.5	4.0	0.0	2.0	10.5	4.5	7.5	6.5	4.5	5.5
17	1.0	0.0	0.5	6.0	0.0	2.5	7.5	4.0	5.5	8.0	4.5	6.0
18	2.0	0.0	0.5	5.5	0.5	3.0	8.0	2.5	5.0	8.5	4.5	6.5
19	3.0	0.0	1.0	6.0	1.0	3.0	9.0	2.5	5.5	10.5	5.5	8.0
20	3.0	0.0	1.0	4.5	1.0	3.0	7.0	3.5	5.0	10.5	6.0	8.0
21	3.0	0.0	1.0	3.5	0.0	1.5	7.0	1.5	4.5	9.5	6.0	7.5
22	1.0	0.0	0.5	5.5	0.0	2.5	8.5	1.5	5.0	10.0	6.0	8.0
23	3.0	0.0	1.0	5.5	0.0	3.0	9.0	2.5	6.0	7.0	5.0	6.0
24	0.0	0.0	0.0	7.5	1.5	4.0	7.0	3.5	5.0	9.0	5.0	7.0
25	0.0	0.0	0.0	6.5	1.5	3.5	6.5	2.0	4.5	9.5	5.0	7.0
26	0.0	0.0	0.0	4.5	0.5	2.5	8.5	2.0	5.0	7.5	4.5	6.0
27	0.0	0.0	0.0	5.5	0.5	3.0	9.5	2.0	6.0	6.5	4.5	5.5
28	0.0	0.0	0.0	6.5	0.5	3.5	8.5	2.5	5.5	8.0	4.5	6.0
29	---	---	---	6.5	0.5	4.0	7.0	2.0	4.5	10.5	4.5	6.5
30	---	---	---	9.5	3.5	6.5	8.0	2.0	5.0	8.5	4.5	6.5
31	---	---	---	10.5	2.0	6.0	---	---	---	12.5	4.5	8.5
Month	3.5	0.0	0.4	10.5	0.0	3.0	10.5	1.0	5.0	12.5	2.5	7.0

10313400 Marys River Below Orange Bridge Near Charleston, NV—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	10.5	4.0	8.0	12.0	8.0	10.5	19.5	17.0	18.0	17.0	15.5	16.5
2	8.0	3.0	5.5	13.0	9.0	11.0	18.5	16.5	17.5	16.5	15.0	15.5
3	12.0	3.0	8.0	13.5	10.0	12.0	19.0	16.0	17.5	16.5	14.5	15.5
4	12.0	5.5	8.5	14.0	10.0	12.0	19.0	16.5	18.0	16.5	15.0	16.0
5	12.5	5.5	9.0	13.5	10.5	12.0	19.0	17.0	18.0	16.5	15.5	16.0
6	9.0	6.5	7.5	13.5	11.0	12.5	19.0	16.5	18.0	16.5	15.0	15.5
7	8.5	6.0	7.5	13.0	11.0	12.0	19.0	17.0	18.0	16.0	15.0	15.5
8	9.5	5.5	7.5	14.0	11.0	12.5	19.0	16.5	18.0	16.0	15.0	15.5
9	11.0	5.0	8.0	13.5	11.0	12.5	18.5	16.5	17.5	15.5	14.5	15.0
10	11.0	5.0	8.0	14.0	10.5	12.5	18.5	16.0	17.5	15.5	14.0	15.0
11	9.5	6.0	8.0	15.0	11.5	13.5	18.5	16.0	17.5	15.5	14.5	15.0
12	11.0	7.0	9.0	14.5	12.0	13.5	18.5	16.0	17.5	15.5	14.0	15.0
13	11.0	6.5	9.0	15.5	12.0	14.0	18.5	16.5	17.5	15.5	14.0	15.0
14	11.5	6.5	9.0	14.5	12.5	13.5	18.0	16.0	17.0	15.0	13.5	14.5
15	11.5	6.5	9.0	15.0	12.0	13.5	18.0	16.5	17.0	15.5	14.0	15.0
16	10.0	6.0	8.0	15.5	12.5	14.0	18.0	15.5	17.0	15.5	13.5	14.5
17	10.5	5.5	8.0	16.0	12.5	14.0	18.5	16.0	17.0	14.5	13.0	14.0
18	9.0	6.5	8.0	16.0	12.5	14.5	18.0	16.0	17.0	14.5	13.0	13.5
19	9.5	6.5	8.0	16.5	13.5	15.0	17.5	16.0	17.0	14.5	13.0	14.0
20	11.0	6.5	9.0	16.5	13.0	15.0	18.5	16.0	17.5	15.0	13.0	14.0
21	12.0	7.0	9.5	17.0	13.5	15.0	18.5	16.5	17.5	15.0	13.0	14.0
22	12.0	7.5	10.0	17.0	14.0	15.5	18.0	16.0	17.5	14.5	13.0	14.0
23	12.5	8.0	10.0	17.5	14.0	16.0	18.0	16.0	17.0	14.5	13.0	14.0
24	11.5	7.5	9.5	18.0	15.0	16.5	19.0	16.5	18.0	14.5	13.0	14.0
25	11.5	7.0	9.5	18.5	15.5	17.0	19.0	17.5	18.5	14.0	13.5	14.0
26	11.0	7.5	9.5	18.0	15.0	16.5	19.0	17.5	18.5	14.5	13.0	14.0
27	12.0	7.5	10.0	18.0	14.5	16.5	18.5	17.5	18.0	14.5	13.0	14.0
28	12.5	8.5	10.5	18.0	15.0	16.0	19.0	17.5	18.5	14.5	13.5	14.0
29	11.5	8.5	10.0	18.5	15.5	17.5	19.0	17.5	18.0	14.5	13.5	14.0
30	11.5	8.5	10.0	19.0	16.5	18.0	18.5	16.5	17.5	14.5	13.5	14.0
31	---	---	---	18.5	17.0	18.0	18.0	16.0	17.0	---	---	---
Month	12.5	3.0	8.7	19.0	8.0	14.3	19.5	15.5	17.6	17.0	13.0	14.7

	Max	Min	Mean
Year	19.5	0.0	7.0