



Water-Data Report 2011

05357259 TROUT RIVER NEAR BOULDER JUNCTION, WI

Chippewa Basin
Flambeau Subbasin

LOCATION.--Lat 46°03'24", long 89°46'20" referenced to North American Datum of 1927, in SW ¼ S ¼ E ¼ sec.5, T.41 N., R.6 E., Vilas County, WI,
Hydrologic Unit 07050002.

DRAINAGE AREA.--70.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1998 to September 1999, at a location 0.5 miles upstream; November 2009 to October 2011 (discontinued).

GAGE.--Water-stage recorder and velocity meter. Elevation of gage is 1605 ft above NAVD 88, from topographic map. Prior to November 2009 gage was at
a different datum 0.5 miles upstream of current location.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	82	74	65	e58	e61	e50	48	52	65	46	38	30
2	69	76	57	e51	e60	e50	49	50	65	44	44	29
3	73	83	e58	e66	e60	e50	50	59	61	42	53	31
4	77	82	e59	e64	e59	e50	53	56	58	39	57	30
5	72	78	e58	e63	e58	e50	53	63	57	39	55	29
6	73	74	e49	e63	e57	e50	54	62	51	40	53	29
7	69	71	e59	e62	e58	e50	47	63	50	40	53	21
8	67	70	e59	e62	e57	e50	53	59	30	40	53	18
9	65	69	e59	e62	e57	e49	55	59	11	39	52	26
10	76	69	e59	e57	e56	48	63	61	54	38	51	26
11	60	63	e59	e59	e56	43	59	71	56	37	50	26
12	59	61	e61	e61	e55	48	47	79	53	34	48	30
13	58	68	e63	e62	e54	48	43	84	51	34	46	26
14	63	71	e65	e62	e54	48	54	83	42	32	45	22
15	58	72	e64	e62	e54	43	47	82	45	32	44	21
16	60	70	e63	e62	e54	48	40	81	48	31	43	12
17	65	70	e63	e62	e54	51	57	78	47	31	42	12
18	55	70	e62	e62	e54	51	52	77	47	38	42	17
19	46	68	e62	e62	e54	45	48	75	52	42	40	14
20	45	67	e62	e62	e54	54	48	74	52	45	39	9.4
21	51	67	e62	e62	e53	57	53	74	59	41	37	5.2
22	50	63	e61	e62	e53	54	55	80	75	39	38	2.8
23	50	46	e63	e60	e52	41	60	79	76	38	35	16
24	58	25	e64	e59	e52	48	63	77	70	39	35	17
25	69	39	e63	e60	e51	47	59	74	62	27	36	16
26	80	56	e63	e60	e50	46	65	71	60	24	34	16
27	91	75	e63	e60	e50	e48	76	69	58	34	33	17
28	90	69	e63	e60	e50	50	76	69	55	37	34	20
29	84	68	e63	e59	---	49	75	68	51	39	19	27
30	80	71	e63	e59	---	47	58	70	49	38	29	26
31	78	---	e65	e61	---	47	---	68	---	39	31	---
Total	2,073	2,005	1,899	1,886	1,537	1,510	1,660	2,167	1,610	1,158	1,309	621.4
Mean	66.9	66.8	61.3	60.8	54.9	48.7	55.3	69.9	53.7	37.4	42.2	20.7
Max	91	83	65	66	61	57	76	84	76	46	57	31
Min	45	25	49	51	50	41	40	50	11	24	19	2.8
Cfsm	0.94	0.94	0.87	0.86	0.78	0.69	0.78	0.99	0.76	0.53	0.60	0.29
In.	1.09	1.05	1.00	0.99	0.81	0.79	0.87	1.14	0.85	0.61	0.69	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	49.0	47.7	39.9	42.9	47.4	43.0	48.4	54.5	52.3	57.8	56.8	42.6
Max	66.9	66.8	61.3	60.8	54.9	48.7	64.2	69.9	61.2	77.6	67.3	66.4
(WY)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(1999)	(2011)	(1999)	(1999)	(1999)	(2010)
Min	31.2	31.6	25.1	28.6	34.5	32.2	25.7	23.7	41.9	37.4	42.2	20.7
(WY)	(1999)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2011)	(2011)	(2011)

05357259 TROUT RIVER NEAR BOULDER JUNCTION, WI—Continued**SUMMARY STATISTICS**

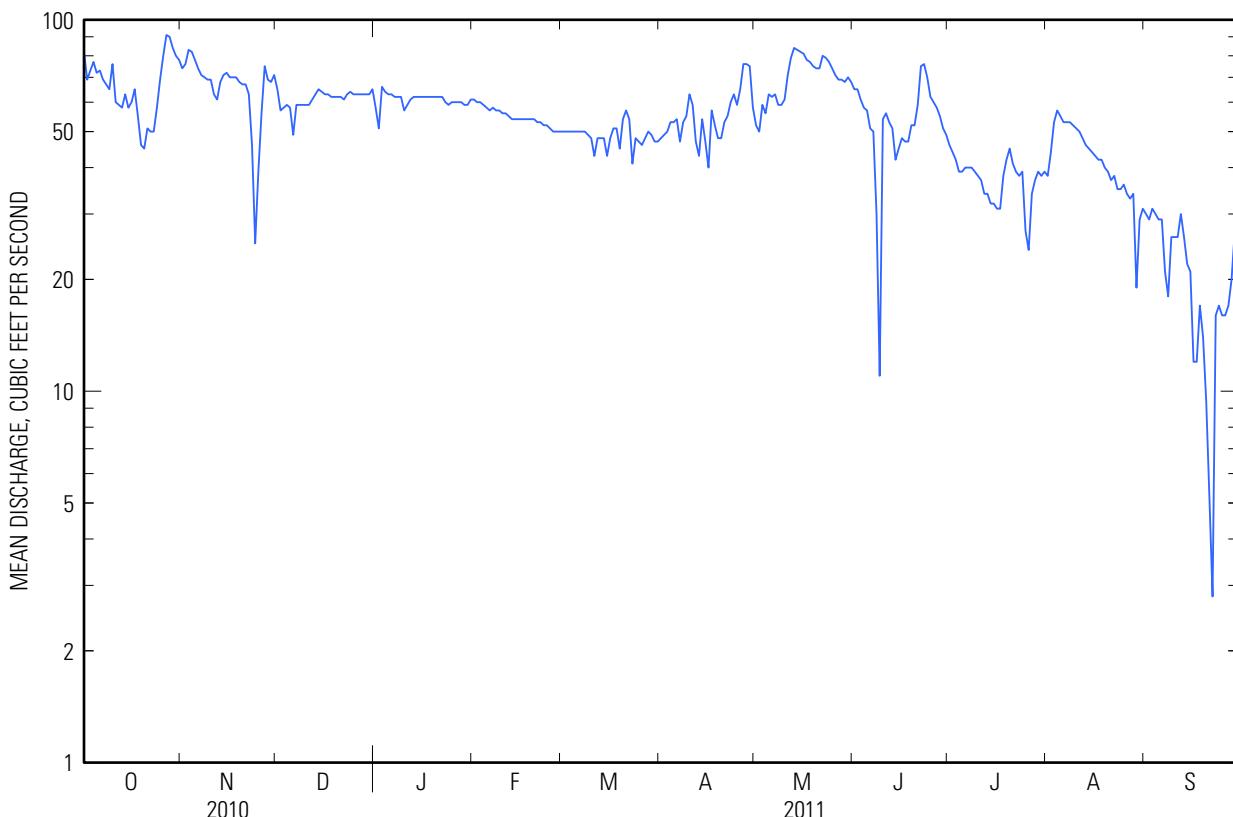
	Calendar Year 2010	Water Year 2011		Water Years 1999 - 2011	
Annual total	17,277.7		19,435.4		
Annual mean	47.3		53.2		48.5
Highest annual mean				53.2	2011
Lowest annual mean				39.1	2010
Highest daily mean	124	Sep 25	91	Oct 27	124 Sep 25, 2010
Lowest daily mean	^a 5.7	Apr 3	^a 2.8	Sep 22	^a 2.8 Sep 22, 2011
Annual seven-day minimum	^a 18	Mar 28	^a 10	Sep 16	^a 10 Sep 16, 2011
Maximum peak flow			^b 98	Oct 27	^c 136 Sep 25, 2010
Maximum peak stage				5.76 Aug 3	^d 7.26 Jul 31, 1999
Annual runoff (cfsm)	0.669		0.752		0.686
Annual runoff (inches)	9.08		10.21		9.31
10 percent exceeds	71		73		73
50 percent exceeds	47		55		49
90 percent exceeds	23		31		26

^a Due to regulation upstream.

^b Gage height, 4.34 ft.

^c Gage height, 5.91 ft.

^d Datum then in use.



05357259 TROUT RIVER NEAR BOULDER JUNCTION, WI—Continued**WATER-QUALITY RECORDS**

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[NTU, nephelometric turbidity unit; ft³/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; <, less than]

Date	Sample start time	Discharge, instantane- ous, ft ³ /s (00061)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detection angle 90 degrees to incident light, NTU (63675)	Sampling method (82398)	Calcium, water, filtered, mg/L (00915)	Magne- sium, water, filtered, mg/L (00925)
09-27-2011	1715	16	< 1.0	Grab sample(dip)	14.4	3.70

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

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Date	Sample start time	Discharge, instantane- ous, ft ³ /s (00061)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detection angle 90 degrees to incident light, NTU (63675)	Sampling method (82398)	Calcium, water, filtered, mg/L (00915)	Magne- sium, water, filtered, mg/L (00925)
11-18-2011	1315	43	< 1.0	Grab sample(dip)	14.3	3.70