Water-Data Report 2013

01169900 SOUTH RIVER NEAR CONWAY, MA

CONNECTICUT RIVER BASIN
DEERFIELD RIVER SUBBASIN

LOCATION.--Lat 42°32′31″, long 72°41′39″ referenced to North American Datum of 1927, Franklin County, MA, Hydrologic Unit 01080203, on left bank at upstream side of Reeds Bridge just off Bardwell Road, 2.2 mi north of Conway, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--24.1 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge: June 1966 to current year. Water-quality records:Water years 1967-69, 1994-95, 2003-05. Intermittent water-quality samples: water years 1967-69, 1994-95, 2003-05.

REVISED RECORDS.--WDR MA-NH-RI-VT-73-1: 1968-70(P), 1971(M), 1972(P). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Elevation of gage is 460 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 23, 2004, stage sensor at downstream side of bridge at same datum.

COOPERATION.--Massachusetts Department of Conservation and Recreation, Office of Water Resources.

REMARKS.--Records fair except those for discharges greater than 3,500 cfs and those for estimated daily discharges, which are poor. Diurnal fluctuation by small powerplant upstream since April 1982.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	25	23	14	e33	80	48	151	49	47	91	21	18
2	20	21	15	e33	e59	44	112	47	42	74	39	22
3	21	20	19	e33	e50	42	91	45	48	62	28	17
4	20	19	16	e33	e44	40	89	44	40	52	22	13
5	22	18	16	e33	e40	41	99	42	36	45	20	11
6	19	18	15	e33	e37	42	99	41	34	40	18	9.8
7	17	17	14	e33	e34	41	94	40	142	36	16	9.3
8	17	18	21	e32	e33	42	113	41	216	34	16	8.5
9	16	17	21	e29	e32	43	149	51	79	33	59	7.8
10	17	17	27	e28	e31	48	155	49	89	35	40	10
11	18	17	22	27	e31	54	180	67	336	34	25	12
12	16	16	19	31	e32	162	142	74	151	30	20	17
13	14	19	e18	36	e30	192	142	50	231	27	19	23
14	16	19	e17	48	e30	96	123	43	377	27	21	14
15	17	17	17	42	e27	80	103	42	127	24	17	11
16	21	17	16	37	e30	72	98	42	90	21	16	10
17	17	16	18	34	e30	68	99	36	77	20	15	9.4
18	15	16	71	e32	e29	e65	87	35	126	18	14	9.0
19	110	16	41	e32	e53	66	82	34	94	16	14	8.7
20	65	16	29	32	e44	66	112	35	66	15	13	8.3
21	29	16	353	e31	e39	64	84	32	58	14	12	8.2
22	25	15	94	e32	e36	62	75	92	52	15	11	27
23	23	15	54	e32	e34	59	70	122	48	300	11	15
24	21	15	48	e32	e33	60	68	125	45	57	10	11
25	20	15	43	e33	e33	61	65	109	52	38	9.8	10
26	20	14	e36	e33	34	60	61	81	40	35	9.8	9.6
27	20	14	e35	e34	45	63	58	60	38	32	13	9.0
28	24	15	e33	e35	56	71	56	52	251	29	12	8.8
29	21	14	e33	e35	---	80	54	67	92	28	18	8.5
30	32	14	e33	e41	---	90	51	88	62	26	13	8.3
31	26	---	e33	329	---	96	---	56	---	22	12	---
Total	764	504	1,241	1,338	1,086	2,118	2,962	1,791	3,186	1,330	584.6	364.2
Mean	24.6	16.8	40.0	43.2	38.8	68.3	98.7	57.8	106	42.9	18.9	12.1
Max	110	23	353	329	80	192	180	125	377	300	59	27
Min	14	14	14	27	27	40	51	32	34	14	9.8	7.8
Cfsm	1.02	0.70	1.66	1.79	1.61	2.83	4.10	2.40	4.41	1.78	0.78	0.50
In.	1.18	0.78	1.92	2.07	1.68	3.27	4.57	2.76	4.92	2.05	0.90	0.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	38.9	52.0	58.1	50.0	51.3	98.2	128	70.2	49.9	23.4	20.9	23.4
Max	308	142	144	141	163	228	263	171	144	80.7	102	166
(WY)	(2006)	(1996)	(2004)	(2006)	(1981)	(2010)	(2001)	(1984)	(1982)	(2000)	(2011)	(2011)
Min	6.22	8.20	12.6	7.27	14.1	31.2	32.6	23.5	12.6	5.92	4.45	4.17
(WY)	(1983)	(2002)	(1999)	(1981)	(1980)	(2006)	(1985)	(1995)	(1985)	(1991)	(1999)	(1995)

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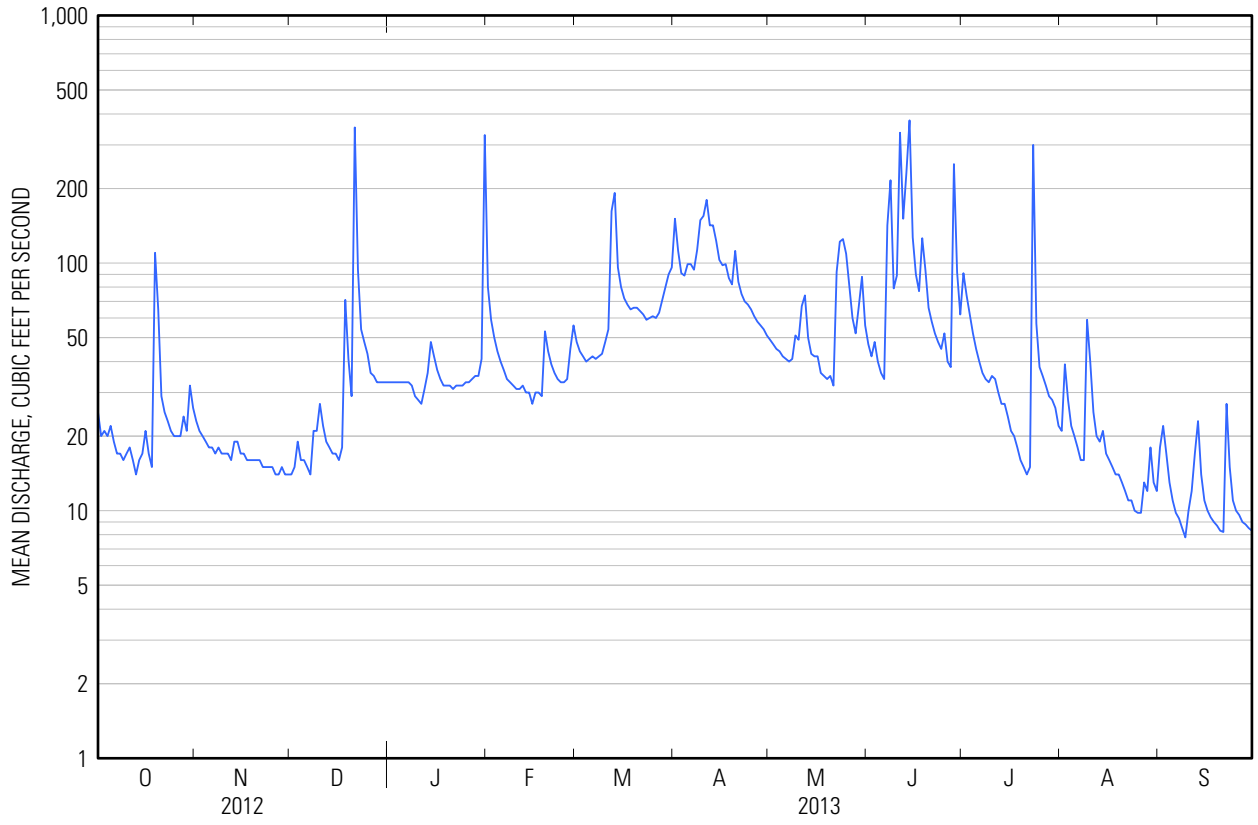
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1966 - 2013	
Annual total	11,865		17,268.8			
Annual mean	32.4		47.3		55.4	
Highest annual mean					89.4	2006
Lowest annual mean					21.5	1985
Highest daily mean	353	Dec 21	377	Jun 14	3,180	Apr 16, 2007
Lowest daily mean	13	Sep 26	7.8	Sep 9	1.6	Aug 8, 1999
Annual seven-day minimum	14	Nov 25	9.2	Sep 15	2.0	Aug 5, 1999
Maximum peak flow			1,420	Jul 23	[e,b]13,000	Aug 28, 2011
Maximum peak stage			7.13	Jul 23	[a]14.27	Aug 28, 2011
Instantaneous low flow			7.6	Sep 9	1.6	Aug 8, 1999
Annual runoff (cfsm)	1.35		1.96		2.30	
Annual runoff (inches)	18.31		26.66		31.22	
10 percent exceeds	49		94		113	
50 percent exceeds	29		33		33	
90 percent exceeds	15		14		8.0	

[e] Estimated.
[b] From rating curve extended above 3,500 ft³/s.
[a] From high-water mark.