01130000 UPPER AMMONOOSUC RIVER NEAR GROVETON, NH

Upper Connecticut Basin
Upper Connecticut Subbasin

LOCATION.--Lat 44°37′30″, long 71°28′10″ referenced to North American Datum of 1927, Coos County, NH, Hydrologic Unit 01080101, on left bank, 75 ft upstream from Emerson Road bridge, 0.2 mi downstream from Nash Stream, 2.8 mi northeast of Groveton, and 3.4 mi Northwest of Stark.

DRAINAGE AREA.--232 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge records: August 1940 to November 1980. October 1982-September 2004. July 2009 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 920 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for periods of estimated record, which are poor. Prior to May 21, 1969, some regulation by pond 9 mi upstream on Nash Stream. Small diversion upstream for municipal supply of Berlin.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 1	1845	4,640	6.40
Oct 16	1315	2,940	5.32
Apr 12	2330	6,560	7.33
Apr 28	2330	*6,940	*7.52
May 16	1915	3,430	5.56
May 30	0600	5,080	6.52
Aug 29	1645	4,830	6.37

Minimum discharge, 72 ft^3/s, Aug. 14, 15, gage height, 1.75 ft.

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 01130000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01130000.2011.pdf

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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	3,540	614	419	e353	e179	e182	353	2,420	1,420	257	102	451
2	3,640	517	1,280	e536	e185	e175	358	1,850	1,210	257	95	342
3	1,710	459	1,070	e580	e193	e171	379	1,750	948	228	107	307
4	863	453	705	e431	e195	e170	381	2,010	767	343	103	312
5	619	933	556	e349	e195	e174	545	2,380	649	260	95	629
6	492	1,340	433	e310	e196	e455	798	1,870	566	211	86	1,800
7	527	884	e360	e292	e198	e1,540	658	1,420	485	304	83	1,370
8	704	817	e360	e286	e194	e1,320	596	1,210	442	257	88	937
9	750	1,240	e343	e281	e186	e943	642	1,070	409	253	90	710
10	561	1,070	e314	e263	e182	e715	867	953	511	282	86	515
11	439	834	e305	e255	e180	e773	2,200	862	425	200	95	397
12	376	686	e340	e248	e180	e1,240	5,030	798	442	402	93	340
13	336	610	e919	e248	e177	e1,070	5,080	758	589	517	81	299
14	307	566	1,790	e243	e173	e807	3,530	740	562	312	74	283
15	1,290	513	e1,080	e235	e170	e668	2,590	1,360	470	229	88	274
16	2,680	479	e743	e231	e165	e590	1,850	3,170	508	190	242	303
17	1,640	602	e644	e226	e178	e572	1,600	2,650	418	165	296	277
18	950	1,050	e603	e219	e198	870	1,910	1,720	401	150	176	236
19	707	740	e577	e237	e304	1,100	1,560	1,340	423	142	124	211
20	587	572	e525	e238	e266	992	1,680	1,150	317	132	102	203
21	539	489	e495	e222	e231	815	2,150	1,010	272	122	93	208
22	586	439	e463	e207	e202	670	1,800	914	239	117	138	198
23	495	543	e436	e201	e194	569	1,550	783	236	111	172	211
24	427	664	e392	e195	e184	508	1,520	700	297	101	121	220
25	414	470	e353	e190	e188	461	2,130	613	412	96	103	220
26	499	448	e335	e202	e184	424	e3,330	554	398	103	169	191
27	877	425	e345	e199	e178	395	e5,100	3,320	360	120	143	169
28	1,170	376	e357	e202	e176	374	e6,050	4,510	292	131	1,480	156
29	780	372	e370	e195	---	349	5,920	3,040	248	108	4,080	164
30	643	339	e370	e190	---	335	3,700	3,440	242	127	2,160	396
31	665	---	e349	e185	---	338	---	2,510	---	121	736	---
Total	29,813	19,544	17,631	8,249	5,431	19,765	65,857	52,875	14,958	6,348	11,701	12,329
Mean	962	651	569	266	194	638	2,195	1,706	499	205	377	411
Max	3,640	1,340	1,790	580	304	1,540	6,050	4,510	1,420	517	4,080	1,800
Min	307	339	305	185	165	170	353	554	236	96	74	156
Cfsm	4.15	2.81	2.45	1.15	0.84	2.75	9.46	7.35	2.15	0.88	1.63	1.77
In.	4.78	3.13	2.83	1.32	0.87	3.17	10.56	8.48	2.40	1.02	1.88	1.98
(†)	1.87	1.59	1.64	1.74	1.93	2.00	1.81	1.64	1.51	1.26	1.15	1.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	332	457	363	262	214	473	1,445	1,112	453	248	207	205
Max	1,057	1,128	994	748	851	1,374	2,416	2,695	1,119	840	572	1,427
(WY)	(1991)	(1970)	(1974)	(1978)	(1970)	(1945)	(1954)	(1972)	(2002)	(1996)	(1969)	(1954)
Min	69.7	118	68.6	53.3	56.6	74.4	532	402	179	94.0	57.2	51.0
(WY)	(1949)	(1948)	(1948)	(1948)	(1980)	(1941)	(1995)	(1941)	(1953)	(1991)	(2001)	(1948)

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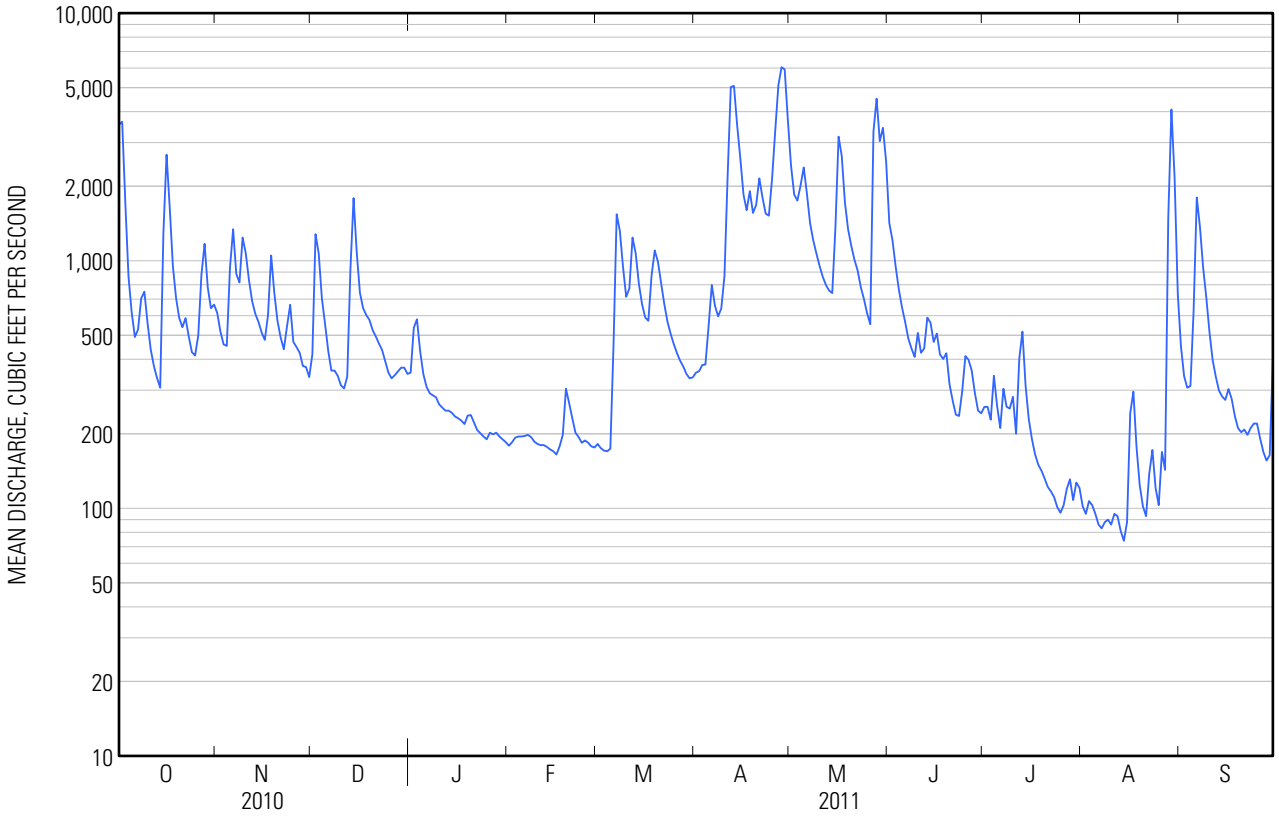
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1940 - 2011	
Annual total	213,701		264,501			
Annual mean	585		725		480	
Highest annual mean					725	2011
Lowest annual mean					297	1980
Highest daily mean	3,970	Apr 4	[e]6,050	Apr 28	8,350	Apr 23, 1954
Lowest daily mean	70	Aug 2	74	Aug 14	27	Sep 10, 2002
Annual seven-day minimum	84	Jul 27	87	Aug 8	30	Sep 5, 2002
Maximum peak flow			6,790	Apr 28	[a]24,100	May 20, 1969
Maximum peak stage			7.52	Apr 28	[b]12.01	May 20, 1969
Instantaneous low flow			72	Aug 14[c]	26	Sep 11, 2002
Annual runoff (cfsm)	2.52		3.12		2.07	
Annual runoff (inches)	34.27		42.41		28.12	
10 percent exceeds	1,240		1,710		1,120	
50 percent exceeds	343		412		250	
90 percent exceeds	125		154		96	

(†) Diversion in cubic feet per second for municipal supply of Berlin: records furnished by City of Berlin.
[a] From rating extended above 8,700 ft³/s on basis of contracted-opening measurement of peak flow.
[b] From floodmarks. Caused by failure of dam on Nash Stream.
[c] Also on August 15.