

Water-Data Report 2008

02115360 YADKIN RIVER AT ENON, NC

Upper Pee Dee Basin
Upper Yadkin Subbasin

LOCATION.--Lat 36°07'54", long 80°26'38" referenced to North American Datum of 1983, Yadkin County, NC, Hydrologic Unit 03040101, on left bank 70 ft upstream from bridge on Secondary Road 1525, 1.5 mi east of Enon, 4 mi upstream from Forbush Creek, and 324 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--1,694 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1964 to current year.

REVISED RECORDS.--WDR NC-72-1: 1970 (M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 701.71 ft above NGVD of 1929. Prior to November 6, 1968, nonrecording gage on downstream side of bridge at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Some regulation by W. Kerr Scott Reservoir (station 02111391).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 15, 1940, reached a stage of 737.5 ft (35.8 ft above gage datum), from information by U.S. Army Corps of Engineers.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	529	985	643	2,290	1,480	1,150	1,590	1,940	772	749	620	e1,910
2	527	907	635	1,790	2,820	1,150	1,490	1,750	750	573	572	e1,420
3	518	813	662	1,520	1,750	1,130	1,390	1,510	699	466	528	e1,260
4	524	773	635	1,350	1,520	1,200	1,890	1,460	738	439	538	645
5	538	755	624	1,320	1,850	1,970	2,210	1,420	702	510	407	583
6	540	723	628	1,310	1,690	2,450	5,360	1,360	642	855	352	460
7	544	699	625	1,260	1,650	2,670	4,250	1,280	599	908	332	397
8	554	676	614	1,220	1,660	3,070	3,320	1,250	572	823	329	378
9	528	665	623	1,200	1,420	2,520	3,040	3,320	604	809	323	411
10	508	673	641	1,170	1,300	2,560	2,130	1,950	556	1,030	332	1,220
11	498	662	634	1,240	1,190	2,550	1,810	1,370	662	866	299	1,170
12	457	671	628	1,230	1,130	1,940	1,730	1,490	582	738	290	982
13	430	673	620	1,130	1,230	1,850	1,730	1,320	603	605	282	898
14	440	694	630	1,080	1,420	1,780	1,580	1,150	582	926	262	922
15	482	742	629	1,040	2,530	1,750	1,530	1,120	762	989	442	837
16	471	705	840	986	1,460	1,790	1,480	1,170	790	647	398	928
17	477	682	1,080	1,000	1,300	1,550	1,430	1,210	623	539	492	1,330
18	476	646	826	1,150	1,350	1,470	1,400	1,100	512	485	388	1,070
19	512	654	715	1,140	1,420	1,600	1,360	1,080	466	429	317	939
20	525	647	695	1,090	1,310	2,270	1,610	1,030	453	414	280	660
21	515	660	719	998	1,300	2,340	1,830	995	429	437	266	599
22	510	665	785	920	1,270	1,960	1,640	953	451	414	232	590
23	496	652	817	1,010	1,210	1,820	1,510	923	540	398	221	560
24	537	620	1,700	989	1,200	1,730	1,430	900	660	597	229	481
25	1,230	610	1,370	940	1,210	1,660	1,380	873	513	544	240	446
26	11,000	659	1,170	894	1,220	1,600	1,330	849	443	416	249	482
27	8,210	750	1,320	943	1,340	1,580	1,510	808	462	384	3,570	2,680
28	2,640	814	1,110	916	1,270	1,540	1,890	825	489	375	5,250	2,950
29	1,610	704	2,500	910	1,170	1,420	2,770	884	577	377	2,300	1,600
30	1,260	663	2,760	919	---	1,430	2,060	893	761	444	2,310	1,240
31	1,090	---	3,930	920	---	1,470	---	810	---	430	e2,130	---
Total	39,176	21,242	31,808	35,875	42,670	56,970	59,680	38,993	17,994	18,616	24,780	30,048
Mean	1,264	708	1,026	1,157	1,471	1,838	1,989	1,258	600	601	799	1,002
Max	11,000	985	3,930	2,290	2,820	3,070	5,360	3,320	790	1,030	5,250	2,950
Min	430	610	614	894	1,130	1,130	1,330	808	429	375	221	378

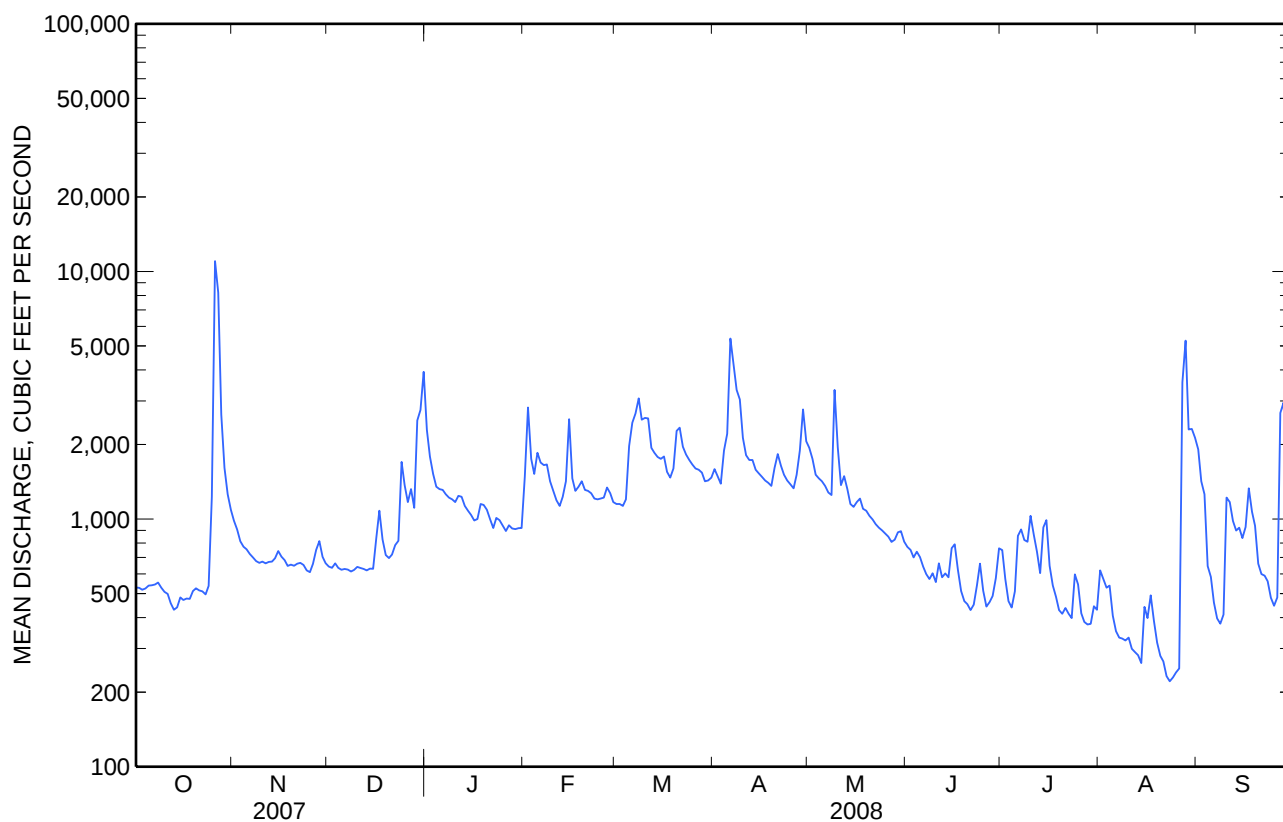
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,944	2,004	2,272	2,716	2,820	3,383	3,208	2,623	2,374	1,903	1,900	1,788
Max	5,371	5,128	4,814	5,725	5,645	7,862	7,337	4,989	5,435	4,419	5,611	5,810
(WY)	(1991)	(1978)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(1972)	(2003)	(1970)	(1979)
Min	635	620	841	1,051	1,023	1,443	1,350	925	540	601	405	815
(WY)	(2002)	(2002)	(2001)	(1981)	(2001)	(1981)	(2002)	(2002)	(2002)	(2008)	(2002)	(1988)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1964 - 2008	
Annual total	615,211		417,852			
Annual mean	1,686		1,142		2,407	
Highest annual mean					3,605	1973
Lowest annual mean					952	2002
Highest daily mean	18,900	Jan 1	11,000	Oct 26	48,400	Sep 22, 1979
Lowest daily mean	368	Sep 12	221	Aug 23	221	Aug 23, 2008
Annual seven-day minimum	384	Sep 7	245	Aug 20	245	Aug 20, 2008
Maximum peak flow			15,300	Oct 26	73,300	Jun 21, 1972
Maximum peak stage			14.44	Oct 26	29.52	Sep 22, 1979
Instantaneous low flow			197	Aug 22	197	Aug 22, 2008
10 percent exceeds	2,770		1,940		4,080	
50 percent exceeds	1,260		909		1,860	
90 percent exceeds	524		440		951	



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PERIOD OF RECORD.--October 2000 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record may be poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	1.43	0.00	0.19	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00
3	0.00	0.00	0.00	0.00	0.24	0.00	0.84	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.83	1.10	0.99	0.00	0.00	0.07	0.00	0.00
5	0.00	0.00	0.00	0.00	0.01	0.00	0.27	0.02	0.00	0.01	0.00	0.05
6	0.00	0.02	0.00	0.00	0.12	0.00	0.49	0.00	0.00	0.56	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.20	0.00	1.86	0.00	0.01	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.34	0.00	0.24
10	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.17
11	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.47	0.26	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.08	0.00	0.27	0.00	0.00	0.00	0.00	0.00
13	0.00	0.03	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.04	0.29	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.03	0.00	0.00
15	0.00	0.40	0.60	0.00	0.00	0.49	0.00	0.03	0.01	0.00	0.00	0.00
16	0.00	0.00	0.18	0.00	0.00	0.01	0.00	0.12	0.00	0.00	0.00	1.95
17	0.00	0.00	0.00	0.30	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.23	0.07	0.00	0.00	0.36	0.00	0.00	0.00	0.00
19	0.66	0.00	0.01	0.03	0.00	0.95	0.32	0.01	0.00	0.00	0.00	0.00
20	0.01	0.00	0.03	0.00	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.26	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00
22	0.00	0.22	0.00	0.01	0.01	0.00	0.02	0.00	0.38	0.09	0.00	0.00
23	0.00	0.00	0.54	0.00	0.00	0.01	0.00	0.00	0.01	0.50	0.00	0.00
24	0.38	0.00	0.00	0.00	0.12	0.00	0.00	0.07	0.00	0.01	0.00	0.00
25	1.88	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
26	2.19	0.14	0.67	0.00	0.37	0.00	0.11	0.00	0.04	0.00	0.71	1.31
27	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.03	0.93	0.14	6.52	0.58
28	0.00	0.00	0.86	0.00	0.00	0.00	0.43	0.10	0.28	0.00	0.04	0.00
29	0.00	0.00	0.17	0.02	0.00	0.41	0.00	0.00	0.17	0.00	0.00	0.00
30	0.00	0.00	1.09	0.18	---	0.00	0.00	0.00	0.04	0.00	0.00	0.11
31	0.00	---	0.01	0.00	---	0.48	---	0.00	---	0.90	0.00	---
Total	5.12	1.06	4.42	1.06	3.93	4.45	4.96	3.10	2.49	2.74	8.34	4.41

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