

Water-Data Report 2010

02143000 HENRY FORK NEAR HENRY RIVER, NC

Santee Basin
South Fork Catawba Subbasin

LOCATION.--Lat 35°41'04", long 81°24'12" referenced to North American Datum of 1983, Catawba County, NC, Hydrologic Unit 03050102, on left bank 325 ft downstream of bridge on Secondary Road 1124, at site of Old Link Ford, 1.2 mi downstream of Burke-Catawba County line, and 2 mi southeast of Henry River.

DRAINAGE AREA.--83.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1925 to November 1931, December 1941 to current year.

REVISED RECORDS.--WSP 952: 1928, 1930. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 890.99 ft above National Geodetic Vertical Datum of 1929. July 1925 to November 1931, at site 450 ft upstream at same datum. Satellite telemetry at streamgage.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for current water year result of regulation. Minimum discharge for current water year also occurred September 25, 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known: 29.2 ft, August 13, 1940, at former site, from floodmarks; discharge: 31,300 ft³/s. The flood of July 16, 1916, reached a stage of about 23 ft at former site; discharge: 20,700 ft³/s.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	66	212	87	175	209	177	188	117	171	65	53	39
2	62	176	679	166	246	176	180	116	184	62	55	38
3	60	121	1,000	156	318	179	174	131	166	59	55	37
4	57	98	386	150	288	172	169	131	143	57	52	35
5	61	87	207	144	1,120	164	164	116	129	56	53	34
6	62	80	166	138	1,230	160	160	111	113	54	64	34
7	58	75	143	134	486	158	157	108	108	52	53	34
8	53	72	136	133	415	158	168	106	97	50	48	34
9	52	69	604	e125	378	154	180	101	94	50	47	37
10	57	95	490	e123	332	157	154	101	94	55	47	35
11	55	2,280	257	e121	282	161	148	105	89	51	49	34
12	54	754	180	120	257	189	145	108	87	57	45	39
13	58	395	184	115	250	304	143	103	85	64	43	37
14	61	199	180	114	230	302	140	100	84	59	43	33
15	75	156	165	113	228	269	138	116	82	53	123	32
16	66	134	149	112	220	251	137	108	95	57	71	31
17	73	120	137	587	209	223	136	168	96	80	56	30
18	66	114	145	504	201	194	132	167	80	73	59	29
19	59	122	171	253	194	179	130	126	77	64	63	30
20	57	110	149	202	191	166	130	111	84	57	75	30
21	55	102	141	197	190	173	135	110	76	71	57	29
22	53	100	139	225	211	533	129	118	72	55	57	30
23	53	129	141	203	237	398	125	108	71	50	50	30
24	67	123	144	479	234	332	124	107	68	48	47	29
25	69	115	1,350	3,550	222	230	173	105	69	46	48	28
26	59	108	824	561	201	218	149	100	73	46	49	34
27	65	100	455	409	193	191	135	95	70	54	46	68
28	178	94	272	338	185	194	128	98	76	80	48	54
29	124	91	224	257	---	250	121	106	66	63	45	45
30	94	89	192	262	---	228	119	94	67	51	43	54
31	88	---	184	225	---	203	---	172	---	49	41	---
Total	2,117	6,520	9,681	10,391	8,957	6,843	4,411	3,563	2,866	1,788	1,685	1,083
Mean	68.3	217	312	335	320	221	147	115	95.5	57.7	54.4	36.1
Max	178	2,280	1,350	3,550	1,230	533	188	172	184	80	123	68
Min	52	69	87	112	185	154	119	94	66	46	41	28
Cfsm	0.82	2.61	3.75	4.03	3.84	2.65	1.77	1.38	1.15	0.69	0.65	0.43
In.	0.95	2.92	4.33	4.65	4.00	3.06	1.97	1.59	1.28	0.80	0.75	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2010^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	103	103	128	152	180	199	180	134	113	86.5	95.0	93.2
Max	562	392	312	380	473	583	470	322	392	203	554	594
(WY)	(1930)	(1978)	(2010)	(1996)	(1960)	(1975)	(1983)	(1984)	(1947)	(1949)	(1928)	(1945)
Min	24.5	32.7	31.1	32.3	49.0	69.7	56.8	35.8	20.8	14.5	12.5	25.0
(WY)	(2001)	(2008)	(1956)	(1956)	(2001)	(1985)	(2002)	(2002)	(2002)	(2002)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1926 - 2010 ^a	
Annual total	48,168		59,905			
Annual mean	132		164		131	
Highest annual mean					221	1993
Lowest annual mean					45.5	2002
Highest daily mean	2,280	Nov 11	3,550	Jan 25	10,100	Oct 2, 1929
Lowest daily mean	35	Aug 11	28	Sep 25	4.0	Nov 15, 1942
Annual seven-day minimum	39	Aug 10	29	Sep 19	5.8	Aug 8, 2002
Maximum peak flow			7,870	Jan 25	15,300	Oct 2, 1929
Maximum peak stage			14.47	Jan 25	18.71	Oct 12, 1990
Instantaneous low flow			^b 28	Sep 21	3.0	Dec 20, 1942
Annual runoff (cfs)	1.59		1.97		1.57	
Annual runoff (inches)	21.54		26.78		21.36	
10 percent exceeds	207		257		215	
50 percent exceeds	84		113		91	
90 percent exceeds	48		47		40	

^a See Period of Record.

^b See Remarks.

