

Water-Data Report 2007

02143500 INDIAN CREEK NEAR LABORATORY, NC

Santee Basin
South Fork Catawba Subbasin

LOCATION.--Lat 35°25'14", long 81°15'55" referenced to North American Datum of 1983, Lincoln County, NC, Hydrologic Unit 03050102, on left bank 250 ft upstream from remains of Rudisill Mill dam, 0.5 mi upstream from bridge on Secondary Road 1252, 1.5 mi south of Laboratory, 1.5 mi upstream from mouth, and 3.5 mi south of Lincoln.

DRAINAGE AREA.--69.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WDR NC-71-1: 1970(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 741.62 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. The City of Cherryville diverts water from Indian Creek for water supply upstream from gaging station and returns treated effluent to Indian Creek upstream of gaging station; a daily average of 1.3 ft³/s was diverted during the year, and a daily average of 0.77 ft³/s of treated effluent was returned to the creek during the year. Minimum discharge for current year affected by regulation. Minimum discharge for period of record also occurred September 14, 2002. Minimum discharge for current water year also occurred September 29, 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peak discharge of flood in October 1929 was 9,920 ft³/s; flood in July 1916, 7,840 ft³/s; flood in August 1940, 6,000 ft³/s. Discharge based on computation of peak flow over dam 1 mi downstream, using floodmarks and information by local resident.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	24	47	58	906	66	229	64	44	20	24	9.8	2.9
2	23	44	54	421	76	1,580	68	42	20	19	8.2	2.8
3	23	41	51	157	64	330	62	40	27	17	7.3	2.5
4	22	39	50	120	60	167	61	46	29	14	6.7	2.2
5	21	38	48	153	58	128	56	47	23	13	6.6	1.8
6	20	39	49	148	57	110	56	47	20	12	6.0	1.5
7	20	50	48	125	58	99	56	41	19	17	5.7	1.7
8	23	104	45	787	56	90	53	39	19	14	5.2	1.6
9	24	75	44	247	55	84	52	39	21	13	4.7	1.3
10	23	58	47	151	55	80	53	39	17	30	4.9	1.2
11	22	53	46	119	53	77	56	38	17	26	4.2	1.3
12	58	54	45	104	53	73	89	67	26	15	3.6	1.2
13	26	48	45	95	57	70	59	62	24	13	2.8	1.4
14	22	47	44	88	114	72	55	40	50	12	2.7	2.2
15	22	46	45	83	72	72	119	37	50	13	2.5	3.7
16	21	394	42	80	64	135	79	36	32	12	2.4	4.5
17	135	165	42	73	61	125	64	36	24	12	2.6	3.0
18	179	101	42	74	61	93	59	33	21	11	3.1	2.4
19	66	79	43	77	56	83	61	31	19	11	3.2	2.5
20	64	70	42	70	57	80	90	31	22	9.8	2.6	2.5
21	51	63	42	71	59	78	65	30	18	11	2.4	2.0
22	45	151	65	116	58	75	59	29	17	9.9	1.9	2.4
23	43	116	82	86	54	74	57	28	17	8.9	3.4	2.6
24	37	84	57	77	52	72	54	28	18	8.5	4.1	2.2
25	35	72	298	72	107	70	53	27	43	12	3.5	1.6
26	35	66	236	66	115	69	51	25	23	10	3.4	1.6
27	41	63	118	65	76	68	54	24	18	10	3.2	1.4
28	160	60	87	65	67	66	50	23	16	12	3.2	1.2
29	82	57	75	60	---	66	48	23	15	8.5	3.4	0.96
30	57	57	69	60	---	64	46	22	28	15	3.2	1.1
31	51	---	69	59	---	64	---	21	---	14	2.9	---
Total	1,475	2,381	2,128	4,875	1,841	4,543	1,849	1,115	713	427.6	129.4	61.26
Mean	47.6	79.4	68.6	157	65.8	147	61.6	36.0	23.8	13.8	4.17	2.04
Max	179	394	298	906	115	1,580	119	67	50	30	9.8	4.5
Min	20	38	42	59	52	64	46	21	15	8.5	1.9	0.96
Cfsm	0.69	1.15	0.99	2.27	0.95	2.12	0.89	0.52	0.34	0.20	0.06	0.03
In.	0.79	1.28	1.14	2.62	0.99	2.44	0.99	0.60	0.38	0.23	0.07	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	65.3	64.9	90.2	116	131	150	116	85.7	72.7	52.6	53.6	44.8
Max	324	272	236	313	309	424	358	256	280	220	275	205
(WY)	(1965)	(1958)	(1968)	(1978)	(1960)	(1952)	(2003)	(2003)	(2003)	(2003)	(1970)	(2004)
Min	7.35	13.7	19.9	25.8	44.0	53.4	31.5	19.2	6.97	4.40	1.90	2.04
(WY)	(2002)	(2002)	(2002)	(1956)	(1986)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1951 - 2007	
Annual total	22,283		21,538.26			
Annual mean	61.0		59.0		86.8	
Highest annual mean					171	2003
Lowest annual mean					21.8	2002
Highest daily mean	838	Aug 12	1,580	Mar 2	4,350	Aug 10, 1970
Lowest daily mean	11	Aug 2	0.96	Sep 29	0.32	Aug 12, 2002
Annual seven-day minimum	13	Jul 29	1.4	Sep 7	0.45	Aug 9, 2002
Maximum peak flow			1,870	Mar 2	8,450	Aug 10, 1970
Maximum peak stage			5.21	Mar 2	10.61	Aug 10, 1970
Instantaneous low flow			^a 0.89	Sep 28	^a 0.25	Aug 12, 2002
Annual runoff (cfsm)	0.882		0.853		1.25	
Annual runoff (inches)	11.98		11.58		17.05	
10 percent exceeds	101		102		145	
50 percent exceeds	48		45		55	
90 percent exceeds	21		3.0		22	

^a See Remarks.

