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Water-Data Report 2008

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 Lincolnton.

DRAINAGE AREA.--69.2 mi^2.

SURFACE-WATER RECORDS

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

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

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

REMARKS.--Records good, except those for etimated daily mean discharges, which are poor. 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 1.25 ft^3/s was diverted during the year, and a daily average of 0.62 ft^3/s of treated effluent was returned to the creek during the year. Minimum discharges, since 1963, affected by regulation. Minimum discharge for period of record also occurred September 14, 2002. Minimum discharge for current water year also occurred October 14-17.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peak discharge of flood in October 1929 was 9,920 ft^3/s; flood in July 1916, 7,840 ft^3/s; flood in August 1940, 6,000 ft^3/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 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.99	8.1	8.3	41	67	25	30	29	16	7.3	14	31
2	1.0	8.1	8.3	27	68	24	28	27	15	4.5	6.6	22
3	0.91	7.8	7.9	23	42	23	26	25	14	3.6	5.5	19
4	0.92	8.0	8.0	e22	35	35	41	25	15	3.5	4.4	17
5	2.2	8.3	7.4	22	32	71	120	24	13	5.1	3.2	15
6	2.7	8.3	7.9	20	31	45	145	27	11	6.1	2.8	14
7	2.3	7.8	7.8	19	30	76	99	23	9.4	10	2.2	13
8	2.1	7.8	7.9	19	28	92	73	22	9.0	8.4	1.7	12
9	1.7	8.6	7.9	20	26	59	62	27	8.4	17	1.6	12
10	2.3	9.0	7.8	19	25	44	57	23	7.9	46	1.7	22
11	1.3	8.5	7.8	21	24	40	50	25	8.6	22	1.6	32
12	0.95	8.3	8.0	20	23	37	47	33	7.1	13	1.4	21
13	0.94	8.4	7.3	18	30	34	43	25	9.5	9.1	57	16
14	0.94	7.8	7.5	18	34	31	41	22	7.6	9.7	21	14
15	1.0	11	7.7	17	26	38	38	23	7.6	8.7	8.0	12
16	0.94	13	30	17	26	61	36	26	7.8	6.1	6.4	17
17	1.00	8.6	21	26	27	39	37	24	6.1	5.3	30	22
18	1.1	8.3	16	31	36	34	38	27	5.2	4.8	14	16
19	1.5	8.1	15	27	30	38	36	33	4.7	4.6	7.2	13
20	1.5	8.2	14	27	26	69	44	24	4.6	4.2	5.8	12
21	1.4	8.1	17	22	25	46	37	23	3.8	3.9	4.9	12
22	1.3	11	17	24	27	41	35	19	5.6	3.2	4.5	12
23	1.9	12	18	24	27	37	34	18	15	4.8	4.3	11
24	6.5	8.7	26	23	25	32	32	17	8.4	6.4	4.0	11
25	24	8.5	19	21	24	29	31	16	6.3	4.0	4.3	e11
26	17	9.0	18	21	32	29	29	16	4.7	3.8	10	e19
27	13	10	20	21	35	29	28	15	10	4.2	1,210	e30
28	9.4	9.3	21	20	26	29	45	21	7.2	3.9	219	e22
29	8.1	8.1	40	20	25	31	42	42	7.9	5.9	77	e20
30	7.9	8.5	48	21	---	30	30	24	9.4	4.4	43	16
31	7.8	---	87	20	---	28	---	18	---	6.5	31	---
Total	126.59	265.2	544.5	691	912	1,276	1,434	743	265.8	250.0	1,808.1	516
Mean	4.08	8.84	17.6	22.3	31.4	41.2	47.8	24.0	8.86	8.06	58.3	17.2
Max	24	13	87	41	68	92	145	42	16	46	1,210	32
Min	0.91	7.8	7.3	17	23	23	26	15	3.8	3.2	1.4	11
Cfsm	0.06	0.13	0.25	0.32	0.45	0.59	0.69	0.35	0.13	0.12	0.84	0.25
In.	0.07	0.14	0.29	0.37	0.49	0.69	0.77	0.40	0.14	0.13	0.97	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	64.3	64.0	88.9	115	130	148	115	84.6	71.6	51.8	53.7	44.3
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	4.08	8.84	17.6	22.3	31.4	41.2	31.5	19.2	6.97	4.40	1.90	2.04
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2002)	(2002)	(2002)	(2002)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1951 - 2008	
Annual total	16,490.55		8,832.19			
Annual mean	45.2		24.1		85.7	
Highest annual mean					171	2003
Lowest annual mean					21.8	2002
Highest daily mean	1,580	Mar 2	1,210	Aug 27	4,350	Aug 10, 1970
Lowest daily mean	0.91	Oct 3	0.91	Oct 3	0.32	Aug 12, 2002
Annual seven-day minimum	0.98	Oct 12	0.98	Oct 12	0.45	Aug 9, 2002
Maximum peak flow			1,620	Aug 27	8,450	Aug 10, 1970
Maximum peak stage			4.89	Aug 27	10.61	Aug 10, 1970
Instantaneous low flow			[a]0.78	Oct 4	[a]0.25	Aug 12, 2002
Annual runoff (cfsm)	0.653		0.349		1.24	
Annual runoff (inches)	8.86		4.75		16.83	
10 percent exceeds	83		41		144	
50 percent exceeds	19		17		54	
90 percent exceeds	2.2		3.9		21	

[a]See Remarks.