

Water-Data Report 2010

## 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 mi<sup>2</sup>.

### **SURFACE-WATER RECORDS**

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

REVISED RECORDS.--WDR NC-71-1: 1970 (annual 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 streamgage.

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 1.10 ft<sup>3</sup>/s was diverted during the year, and a daily average of 0.76 ft<sup>3</sup>/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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peak discharge of flood in October 1929 was 9,920 ft<sup>3</sup>/s; flood in July 1916, 7,840 ft<sup>3</sup>/s; flood in August 1940, 6,000 ft<sup>3</sup>/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 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	19	127	48	93	106	80	110	54	101	29	21	15
2	19	83	277	83	158	82	101	55	103	23	23	14
3	19	53	582	76	266	85	94	74	67	21	23	14
4	18	42	161	72	233	78	89	79	55	21	21	13
5	24	37	114	70	1,100	74	84	58	51	20	21	11
6	25	35	89	67	1,740	72	82	55	48	18	32	11
7	21	33	77	65	318	70	75	52	49	17	23	11
8	19	33	75	65	211	69	77	48	42	16	18	12
9	17	32	590	60	173	69	523	44	41	15	17	12
10	23	39	213	58	151	68	161	43	44	16	16	11
11	24	1,110	128	66	131	71	116	49	42	16	14	10
12	22	1,010	99	59	120	144	99	52	38	30	15	14
13	28	196	101	56	121	386	88	48	36	26	15	13
14	28	128	97	56	111	168	81	45	38	49	13	11
15	40	93	85	56	116	125	79	60	35	24	46	9.7
16	34	76	76	55	110	103	76	60	34	27	28	9.3
17	34	67	70	623	100	94	71	243	32	48	20	8.4
18	29	62	77	213	95	90	66	442	31	40	21	8.3
19	26	61	117	136	91	85	64	186	29	29	178	8.6
20	25	56	116	109	88	80	63	112	35	33	65	8.9
21	24	51	110	113	86	92	71	83	32	38	35	8.1
22	24	49	96	123	108	462	65	81	27	22	30	7.9
23	24	79	90	100	103	183	62	71	25	20	24	8.2
24	24	64	86	308	103	130	61	67	24	17	21	9.2
25	23	57	948	2,560	100	111	115	64	32	17	22	7.9
26	22	55	919	469	91	109	76	60	27	16	21	10
27	26	56	210	198	90	96	65	55	23	16	21	81
28	73	49	153	153	85	147	64	51	23	24	21	37
29	40	47	119	127	---	433	57	61	30	38	19	20
30	32	47	103	138	---	177	55	51	38	22	18	21
31	30	---	102	117	---	132	---	99	---	16	17	---
<b>Total</b>	836	3,927	6,128	6,544	6,305	4,165	2,890	2,602	1,232	764	879	435.5
<b>Mean</b>	27.0	131	198	211	225	134	96.3	83.9	41.1	24.6	28.4	14.5
<b>Max</b>	73	1,110	948	2,560	1,740	462	523	442	103	49	178	81
<b>Min</b>	17	32	48	55	85	68	55	43	23	15	13	7.9
<b>Cfsm</b>	0.39	1.89	2.86	3.05	3.25	1.94	1.39	1.21	0.59	0.36	0.41	0.21
<b>In.</b>	0.45	2.11	3.29	3.52	3.39	2.24	1.55	1.40	0.66	0.41	0.47	0.23

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	62.8	64.3	90.3	116	130	148	114	84.1	71.2	50.8	52.7	43.5
<b>Max</b>	324	272	236	313	309	424	358	256	280	220	275	205
<b>(WY)</b>	(1965)	(1958)	(1968)	(1978)	(1960)	(1952)	(2003)	(2003)	(2003)	(2003)	(1970)	(2004)
<b>Min</b>	4.08	8.84	17.6	22.3	31.4	41.2	31.5	19.2	6.97	4.40	1.90	2.04
<b>(WY)</b>	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2002)	(2002)	(2002)	(2002)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1951 - 2010	
<b>Annual total</b>	27,514		36,707.5			
<b>Annual mean</b>	75.4		101		85.4	
<b>Highest annual mean</b>					171	2003
<b>Lowest annual mean</b>					21.8	2002
<b>Highest daily mean</b>	1,110	Apr 11	2,560	Jan 25	4,350	Aug 10, 1970
<b>Lowest daily mean</b>	10	Sep 7	7.9	Sep 22	0.32	Aug 12, 2002
<b>Annual seven-day minimum</b>	13	Sep 2	8.3	Sep 17	0.45	Aug 9, 2002
<b>Maximum peak flow</b>			3,350	Jan 25	8,450	Aug 10, 1970
<b>Maximum peak stage</b>			6.70	Jan 25	10.61	Aug 10, 1970
<b>Instantaneous low flow</b>			<sup>a</sup> 6.1	Sep 26	<sup>a</sup> 0.25	Aug 12, 2002
<b>Annual runoff (cfsm)</b>	1.09		1.45		1.23	
<b>Annual runoff (inches)</b>	14.79		19.73		16.77	
<b>10 percent exceeds</b>	122		159		143	
<b>50 percent exceeds</b>	37		57		54	
<b>90 percent exceeds</b>	18		16		20	

<sup>a</sup> See Remarks.

