Water-Data Report 2011

02131500 LYNCHES RIVER NEAR BISHOPVILLE, SC

Lower Pee Dee Basin
Lynches Subbasin

LOCATION.--Lat 34°15′00″, long 80°12′50″ referenced to North American Datum of 1927, Lee County, SC, Hydrologic Unit 03040202, near center of span on downstream side of bridge on U.S. Highway 15, 1.0 mi upsteam from Seaboard Coast Line Railroad bridge, 2.9 mi northeast of Bishopville, 3.0 mi downstream from Bells Branch, and at river mile 89.5.

DRAINAGE AREA.--675 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1942 to current year.

GAGE.--Data collection platform. Datum of gage is 155.59 ft above NGVD of 1929. Prior to June 11, 1948, nonrecording gage at site 100 ft upstream at same datum. June 11, 1948 to December 15, 1954, nonrecording gage at present site and datum. September 1971 to February 2002, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor.

REVISIONS.--The maximum discharge for the water year 2002 has been revised to 1,220 ft cfs, Feb. 10, 2002, gage height, 9.69 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 02131500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/02131500.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	783	238	250	273	246	329	1,180	347	301	184	144	125
2	824	221	274	272	256	636	1,120	287	242	145	197	115
3	492	209	300	297	333	745	738	256	208	121	253	115
4	327	e208	291	331	443	486	550	235	184	109	173	115
5	268	235	275	303	746	378	481	228	164	95	146	111
6	236	324	267	280	1,160	333	617	295	151	93	141	106
7	215	323	256	277	1,420	345	993	294	141	111	130	107
8	201	280	244	269	1,470	477	659	285	135	133	136	110
9	190	255	238	261	938	475	509	260	e133	123	131	106
10	184	231	237	263	593	475	664	228	128	112	119	102
11	178	214	234	286	487	900	1,220	215	123	215	110	98
12	174	208	245	326	434	1,170	1,520	496	118	182	108	95
13	170	208	267	344	396	738	1,770	737	115	136	154	91
14	167	204	289	326	369	531	1,440	393	145	118	223	90
15	166	205	279	308	351	449	606	324	137	108	205	87
16	165	208	270	307	325	380	497	304	118	116	193	85
17	177	241	261	322	313	361	494	274	111	114	165	84
18	202	260	263	352	308	364	495	246	e106	108	142	86
19	191	269	273	405	306	349	446	242	103	101	127	90
20	171	244	315	437	298	331	389	234	99	96	122	91
21	159	236	319	408	286	315	355	219	94	91	116	97
22	158	243	298	364	286	299	335	203	93	88	114	108
23	159	233	280	324	277	292	331	191	94	87	139	121
24	157	226	265	298	284	289	326	180	93	90	184	153
25	157	225	259	284	296	290	322	170	92	94	154	216
26	166	232	258	278	270	283	314	156	90	111	135	191
27	186	250	281	281	267	298	294	151	87	401	120	308
28	226	255	314	282	260	561	291	291	86	374	111	360
29	277	254	303	269	---	846	313	944	86	225	105	269
30	294	248	296	259	---	688	402	1,040	152	172	106	210
31	265	---	282	252	---	792	---	450	---	147	113	---
Total	7,685	7,187	8,483	9,538	13,418	15,205	19,671	10,175	3,929	4,400	4,516	4,042
Mean	248	240	274	308	479	490	656	328	131	142	146	135
Max	824	324	319	437	1,470	1,170	1,770	1,040	301	401	253	360
Min	157	204	234	252	246	283	291	151	86	87	105	84
Cfsm	0.37	0.35	0.41	0.46	0.71	0.73	0.97	0.49	0.19	0.21	0.22	0.20
In.	0.42	0.40	0.47	0.53	0.74	0.84	1.08	0.56	0.22	0.24	0.25	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	471	563	697	942	1,139	1,262	984	575	435	440	502	523
Max	2,242	1,751	2,005	2,169	2,738	2,385	2,199	1,518	1,229	997	2,004	3,498
(WY)	(1965)	(1949)	(1949)	(1968)	(1960)	(2003)	(1960)	(1949)	(1969)	(1943)	(1971)	(1945)
Min	143	154	274	308	408	368	259	196	105	91.2	88.3	104
(WY)	(2008)	(2008)	(2011)	(2011)	(2009)	(2006)	(2006)	(2002)	(2002)	(2002)	(2002)	(2009)

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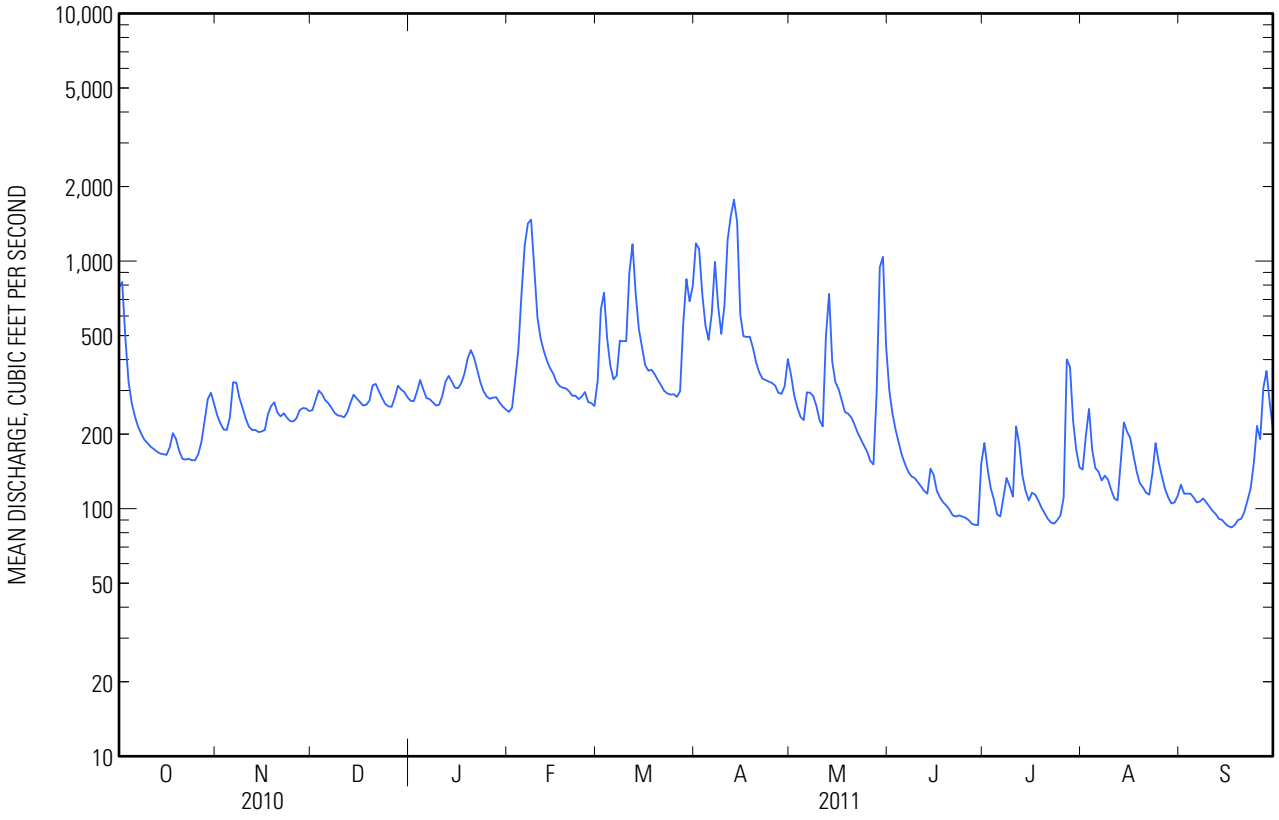
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1943 - 2011	
Annual total	189,029		108,249			
Annual mean	518		297		716	
Highest annual mean					1,215	1965
Lowest annual mean					297	2011
Highest daily mean	4,560	Feb 9	1,770	Apr 13	27,300	Sep 19, 1945
Lowest daily mean	120	Jul 9	84	Sep 17	33	Aug 13, 2002
Annual seven-day minimum	135	Jul 5	88	Sep 13	40	Aug 8, 2002
Maximum peak flow			1,870	Apr 13[a]	[b]29,400	Sep 19, 1945
Maximum peak stage			11.55	Apr 13[a]	[c]22.35	Sep 19, 1945
Annual runoff (cfsm)	0.767		0.439		1.06	
Annual runoff (inches)	10.42		5.97		14.41	
10 percent exceeds	1,150		496		1,420	
50 percent exceeds	298		253		476	
90 percent exceeds	163		106		202	

[a] Also occurred Apr. 14.
[b] From rating curve extended above 12,000 cfs by velocity-area studies.
[c] From floodmarks.



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CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--September 2004 to current year.

INSTRUMENTATION.--Tipping bucket raingage and data collection platform.

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

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.16	0.14	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.01	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.07
3	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	---	0.03	0.00	1.97	0.00	0.00	0.13	0.00	0.00	0.00	0.00
5	0.00	0.01	0.01	0.02	0.65	0.00	0.50	0.00	0.00	0.08	3.02	0.07
6	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.24	0.00	0.11	0.01	0.03
7	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.79	1.96	0.00	0.00	0.97	0.00	0.00
10	0.00	0.00	0.00	0.00	0.01	0.11	0.01	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.14	0.01	0.00	0.00	0.00	0.75	0.19	0.00	0.64	0.00
12	0.00	0.00	0.27	0.15	0.00	0.00	0.01	0.00	0.08	0.00	0.26	0.00
13	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.07	0.00	0.12	0.90	0.00
14	0.06	0.00	0.00	0.09	0.00	0.00	0.00	0.28	0.00	0.00	0.04	0.00
15	0.01	0.00	0.00	0.17	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.00
16	0.00	0.15	0.00	0.00	0.00	0.01	1.19	0.00	0.01	0.00	0.00	0.00
17	0.00	0.17	0.00	0.15	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
18	0.00	0.00	0.27	0.04	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
19	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01
21	0.00	0.00	0.00	0.00	0.04	0.00	0.05	0.00	0.05	0.00	0.00	0.44
22	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.42	0.00	0.00	0.07
23	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.78
24	0.00	0.19	0.00	0.00	0.00	0.10	0.00	0.00	0.00	1.23	0.00	0.57
25	0.12	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.64	0.00	0.63
26	0.01	0.14	0.15	0.01	0.00	0.53	0.27	0.00	0.00	0.14	0.00	0.30
27	0.55	0.00	0.15	0.00	0.00	0.25	0.00	1.83	0.00	0.00	0.00	0.00
28	0.46	0.00	0.01	0.00	1.21	0.56	0.28	0.69	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.82	0.00
30	0.00	0.08	0.00	0.00	---	0.86	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.37	---	0.00	---	3.42	0.00	---
Total	1.21	---	1.19	1.04	4.48	3.72	4.78	4.03	0.82	6.72	5.74	2.97
Mean	0.04	---	0.04	0.03	0.16	0.12	0.16	0.13	0.03	0.22	0.19	0.10
Max	0.55	---	0.27	0.17	1.97	0.86	1.96	1.83	0.42	3.42	3.02	0.78
Min	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00