

Water-Data Report 2010

02134500 LUMBER RIVER AT BOARDMAN, NC

Lower Pee Dee Basin
Lumber Subbasin

LOCATION.--Lat 34°26'33", long 78°57'37" referenced to North American Datum of 1983, Robeson County, NC, Hydrologic Unit 03040203, on right bank 150 ft downstream of bridge on U.S. Highway 74, 1 mi downstream of Seaboard Coast Line Railroad bridge at Boardman, 1.5 mi downstream of Big Swamp, and 40.5 mi upstream from mouth.

DRAINAGE AREA.--1,228 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1929 to current year.

REVISED RECORDS.--WSP 1303: 1932(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 72.05 ft above National Geodetic Vertical Datum of 1929. Prior to September 30, 1936, nonrecording gage at site 100 ft downstream at same datum. September 30, 1936, to June 8, 1943, nonrecording gage at present site and datum. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record also occurred September 19, 1999. Minimum discharge for period of record also occurred August 15, 2002. Minimum discharge for current water year also occurred September 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1928 reached a stage of 11.8 ft, from floodmark witnessed by local resident; discharge, 25,000 ft³/s. Flood of July 22, 1901, the highest during the period 1896-1913, reached a stage of 10.8 ft, from observations by Butters Lumber Co.; discharge, 14,800 ft³/s.

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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	307	242	1,010	2,300	2,800	1,910	1,630	399	672	654	1,130	428
2	309	248	1,010	2,160	2,780	1,860	1,640	390	817	722	1,160	394
3	295	252	1,070	2,050	2,800	1,870	1,550	377	941	674	1,080	359
4	272	255	1,110	1,970	2,780	1,850	1,470	367	1,350	620	992	293
5	264	254	1,230	1,890	2,820	1,850	1,400	359	1,670	583	897	265
6	283	247	1,280	1,790	3,100	1,860	1,380	346	1,820	536	822	236
7	288	243	1,300	1,680	3,350	1,840	1,400	331	1,780	482	721	215
8	273	243	1,330	1,560	3,650	1,790	1,420	318	1,700	434	607	199
9	262	242	1,440	1,440	3,890	1,730	1,400	301	1,590	413	513	187
10	256	245	1,610	1,370	4,100	1,680	1,330	288	1,460	379	460	179
11	252	468	1,970	1,300	4,170	1,680	1,240	277	1,350	334	382	168
12	254	648	2,240	1,240	4,350	1,720	1,140	269	1,260	297	357	162
13	255	1,000	2,380	1,190	4,550	1,790	1,050	258	1,130	289	341	155
14	250	1,260	2,440	1,140	4,520	1,830	970	245	985	297	319	148
15	254	1,410	2,440	1,100	4,320	1,890	902	231	846	324	289	140
16	262	1,410	2,360	1,060	3,970	1,910	849	219	748	346	256	131
17	263	1,360	2,230	1,140	3,580	1,910	809	215	684	339	230	125
18	264	1,320	2,140	1,190	3,240	1,870	771	246	620	330	220	120
19	263	1,320	2,250	1,260	2,950	1,830	726	335	620	346	220	118
20	267	1,360	2,230	1,400	2,700	1,810	665	386	654	359	216	115
21	268	1,440	2,220	1,480	2,490	1,820	607	426	674	365	225	112
22	263	1,490	2,120	1,600	2,360	1,850	560	439	610	332	277	110
23	255	1,550	1,990	1,680	2,330	1,840	519	452	472	291	313	108
24	245	1,510	1,840	1,800	2,240	1,790	489	482	391	269	344	105
25	233	1,460	1,840	2,150	2,200	1,710	471	515	349	254	379	101
26	222	1,370	2,220	2,470	2,120	1,620	455	589	337	248	411	101
27	217	1,260	2,540	2,780	2,050	1,500	438	738	352	434	439	177
28	215	1,170	2,710	2,900	1,980	1,400	429	833	409	674	461	338
29	217	1,100	2,660	2,940	---	1,380	420	809	486	862	474	452
30	225	1,050	2,550	2,940	---	1,390	409	717	544	943	477	687
31	236	---	2,430	2,880	---	1,480	---	635	---	1,000	461	---
Total	7,989	27,427	60,190	55,850	88,190	54,260	28,539	12,792	27,321	14,430	15,473	6,428
Mean	258	914	1,942	1,802	3,150	1,750	951	413	911	465	499	214
Max	309	1,550	2,710	2,940	4,550	1,910	1,640	833	1,820	1,000	1,160	687
Min	215	242	1,010	1,060	1,980	1,380	409	215	337	248	216	101
Cfsm	0.21	0.74	1.58	1.47	2.56	1.43	0.77	0.34	0.74	0.38	0.41	0.17
In.	0.24	0.83	1.82	1.69	2.67	1.64	0.86	0.39	0.83	0.44	0.47	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	868	902	1,313	1,821	2,163	2,276	1,805	968	759	784	897	1,073
Max	5,496	4,142	3,977	4,575	5,944	5,259	5,688	3,430	2,587	2,897	3,741	4,930
(WY)	(2000)	(1948)	(1949)	(1993)	(1998)	(1983)	(1936)	(1978)	(1969)	(2003)	(1974)	(1999)
Min	123	211	237	262	429	611	420	249	110	80.8	84.5	92.2
(WY)	(2008)	(1934)	(1934)	(1934)	(1934)	(1934)	(1981)	(2002)	(2002)	(2002)	(2002)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1930 - 2010	
Annual total	339,238		398,889			
Annual mean	929		1,093		1,298	
Highest annual mean					2,391	1965
Lowest annual mean					405	2002
Highest daily mean	3,000	Mar 10	4,550	Feb 13	13,400	Sep 24, 1945
Lowest daily mean	165	Sep 22	101	Sep 25	42	Aug 14, 2002
Annual seven-day minimum	175	Sep 19	107	Sep 20	48	Aug 18, 2002
Maximum peak flow			4,600	Feb 13	^a 13,400	Sep 24, 1945
Maximum peak stage			8.34	Feb 13	10.70	Sep 19, 1999
Instantaneous low flow			^a 99	Sep 25	^a 40	Aug 14, 2002
Annual runoff (cfsm)	0.757		0.890		1.06	
Annual runoff (inches)	10.28		12.08		14.36	
10 percent exceeds	1,840		2,360		2,770	
50 percent exceeds	823		748		946	
90 percent exceeds	216		236		284	

^a See Remarks.

