

Water-Data Report 2010

03185400 NEW RIVER AT THURMOND, WV

Kanawha Basin
Lower New Subbasin

LOCATION.--Lat 37°57'18", long 81°04'36" referenced to North American Datum of 1927, Fayette County, WV, Hydrologic Unit 05050004, on right bank at Thurmond, at Chessie System pump house, 0.1 mi upstream from Dunloup Creek, 0.3 mi upstream from railroad/highway bridge, at New River mile 25.8 and Kanawha River mile 122.4.

DRAINAGE AREA.--6,687 mi², excluding that of Dunloup Creek.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1981 to current year (daily discharge and annual maxima).

REVISED RECORDS.--WDR WV-97-1: 1981-92(M). WDR-US-2008: 1982, 1983.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,030.13 ft above NAVD 88 (1,030.71 ft above NGVD 29).

REMARKS.--Records good except for periods of occasional pressure leaks (May 27-Sept. 30), which are fair, and for periods of estimated daily discharges (no gage-height record), which are poor. Flow regulated by Claytor Lake and Bluestone Lake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 98,500 ft³/s, Mar. 14, gage height, 20.21 ft; minimum discharge, 1,030 ft³/s, Sept. 11, 12, gage height, 1.62 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5,350	8,400	5,280	13,400	15,800	12,000	16,700	6,690	6,020	2,530	2,490	1,610
2	4,470	9,870	6,040	12,400	12,600	11,300	14,400	6,830	6,180	2,490	1,690	1,510
3	3,330	10,600	8,950	12,000	12,600	9,800	12,100	7,870	5,780	2,280	2,110	1,510
4	2,940	10,600	23,100	9,980	12,700	9,790	10,100	9,360	5,430	2,200	2,840	1,760
5	3,050	7,200	21,200	7,550	12,600	9,570	8,970	8,520	5,090	2,170	3,010	1,660
6	3,120	6,440	17,000	8,200	13,100	9,020	10,500	7,170	5,150	1,960	1,850	1,630
7	3,040	5,610	13,700	7,140	13,300	9,290	10,700	6,270	5,160	1,920	2,060	1,600
8	2,720	4,490	9,730	e7,500	12,400	9,910	8,690	5,620	4,360	1,780	2,110	1,400
9	2,690	4,150	31,000	e6,500	11,400	14,500	8,660	5,470	4,150	1,700	2,140	1,370
10	2,750	3,930	62,900	e8,600	10,800	24,800	11,100	5,320	3,730	1,780	2,080	1,360
11	2,670	4,860	49,300	e5,000	10,400	35,100	11,800	5,200	3,460	1,680	2,010	1,170
12	2,410	20,400	35,900	e6,100	10,200	44,900	8,540	5,120	3,520	1,740	2,140	1,340
13	2,640	39,000	25,300	e5,300	9,480	86,000	8,330	6,310	6,120	2,120	2,370	1,300
14	2,630	31,300	23,300	e6,800	8,600	90,500	8,100	13,600	8,630	2,740	2,120	1,490
15	2,570	20,300	26,800	6,020	8,670	67,900	7,590	9,460	6,860	3,110	1,970	1,400
16	3,280	15,000	25,000	7,100	8,580	53,800	6,700	8,390	6,820	3,240	1,760	1,530
17	3,700	9,030	19,500	12,600	8,440	43,100	6,910	14,200	5,760	2,710	1,680	1,550
18	4,550	8,720	15,700	32,500	8,200	31,800	6,800	31,400	4,540	2,620	2,140	1,410
19	4,910	8,410	15,300	44,900	7,730	20,600	6,340	26,600	4,310	2,210	3,700	1,250
20	3,780	8,360	14,000	41,100	7,290	17,000	6,420	19,400	3,540	2,700	5,360	1,220
21	3,360	8,230	11,000	39,100	8,050	14,200	6,480	13,500	3,430	3,880	6,740	1,230
22	3,300	7,550	9,700	36,000	9,880	15,500	6,280	11,200	3,410	3,370	5,750	1,380
23	3,230	6,370	9,120	29,900	17,500	25,600	6,140	9,150	3,420	2,660	3,680	1,730
24	3,760	7,300	9,190	27,700	24,100	31,500	5,990	8,190	3,310	2,140	2,850	1,740
25	3,580	6,680	9,590	45,800	24,300	24,900	6,580	7,500	2,740	2,100	2,430	1,790
26	8,940	6,130	20,700	92,100	20,200	20,000	7,100	6,770	2,960	2,160	3,450	1,400
27	8,090	6,430	33,700	61,900	17,300	18,500	7,770	6,490	2,520	2,070	3,170	1,360
28	8,350	6,520	32,700	45,800	14,600	17,600	7,710	6,300	2,770	1,550	3,020	1,510
29	9,480	6,520	25,400	35,300	---	18,200	7,280	6,900	2,430	1,950	2,690	2,690
30	12,400	5,740	18,700	25,500	---	23,000	6,700	7,900	2,540	2,150	2,130	5,400
31	8,880	---	15,700	19,000	---	21,100	---	6,630	---	2,550	1,990	---
Total	139,970	304,140	644,500	718,790	350,820	840,780	257,480	299,330	134,140	72,260	85,530	49,300
Mean	4,515	10,140	20,790	23,190	12,530	27,120	8,583	9,656	4,471	2,331	2,759	1,643
Max	12,400	39,000	62,900	92,100	24,300	90,500	16,700	31,400	8,630	3,880	6,740	5,400
Min	2,410	3,930	5,280	5,000	7,290	9,020	5,990	5,120	2,430	1,550	1,680	1,170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,915	6,528	8,970	11,570	13,700	15,940	13,580	11,390	7,318	4,415	3,822	3,579
Max	16,510	21,590	20,790	27,470	28,590	34,950	40,500	19,650	20,840	11,990	10,160	15,000
(WY)	(1990)	(2004)	(2010)	(1996)	(1994)	(1993)	(1987)	(1989)	(2003)	(2003)	(2003)	(2004)
Min	1,388	1,499	2,366	3,517	3,631	4,154	3,958	5,033	2,010	1,532	1,393	1,499
(WY)	(1992)	(2002)	(2002)	(2000)	(2002)	(1988)	(1986)	(2000)	(1988)	(1988)	(1988)	(2007)

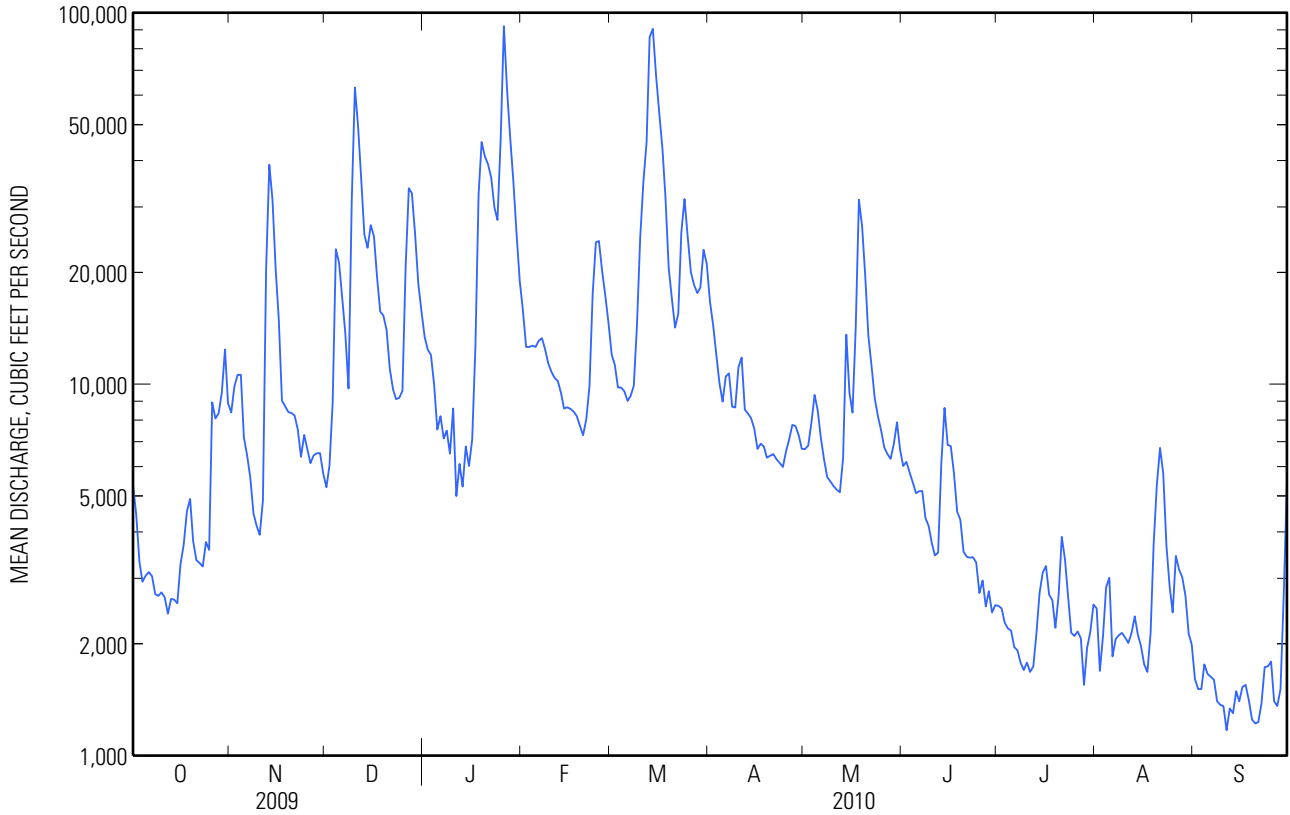
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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1981 - 2010	
Annual total	3,538,010		3,897,040			
Annual mean	9,693		10,680		8,730	
Highest annual mean					14,600	2003
Lowest annual mean					4,336	1988
Highest daily mean	62,900	Dec 10	92,100	Jan 26	92,500	Jan 20, 1996
Lowest daily mean	2,120	Sep 16	1,170	Sep 11	808	Jul 11, 1988
Annual seven-day minimum	2,170	Sep 1	1,350	Sep 8	852	Jul 6, 1988
Maximum peak flow			98,500	Mar 14	^a 100,000	Jan 20, 1996
Maximum peak stage			20.21	Mar 14	20.35	Jan 20, 1996
Instantaneous low flow			1,030	Sep 11 ^b	589	Oct 20, 1994
10 percent exceeds	20,800		25,100		18,800	
50 percent exceeds	6,730		6,700		5,500	
90 percent exceeds	2,950		1,790		1,800	

^a From rating curve extended above 59,000 ft³/s.

^b Also Sept. 12.



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WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1990 to September 1993.

pH: October 1990 to September 1993.

WATER TEMPERATURE: October 1990 to September 1993.

DISSOLVED OXYGEN: October 1990 to September 1993.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily mean: 207 microsiemens, Nov. 26, 1991; minimum daily mean, 87 microsiemens, Mar. 25, 1993.

pH: Maximum daily median, 8.8 units, June 10, 11, 1991, minimum daily median, 7.3 units, May 11, 1993.

WATER TEMPERATURE: Maximum daily mean, 29.2°C, July 29, 1993; minimum daily mean, 0.7°C, Jan. 20, 1992.

DISSOLVED OXYGEN: Maximum daily mean, 13.4 mg/L, Dec. 20, 1991; minimum daily mean, 6.1 mg/L, June 3, 4, 1991.