Water-Data Report 2011

01053500 ANDROSCOGGIN RIVER AT ERROL, NH

Androscoggin Basin
Upper Androscoggin Subbasin

LOCATION.--Lat 44°46′57″, long 71°07′43″ referenced to North American Datum of 1983, Coos County, NH, Hydrologic Unit 01040001, on right bank 0.4 mi downstream from Errol Dam, 0.4 mi northeast of Errol, and 0.6 mi upstream from Clear Stream.

DRAINAGE AREA.--1,046 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: January 1905 to current year. November and December 1912, monthly discharges only, published in WSP 1301. Prior to 1922, published as "at Errol Dam." Records for water years 1923-44 have not been published but are available in the files of the U.S. Geological Survey.

REVISED RECORDS.--WDR ME-81-1: Drainage area. WDR ME-97-1: 1906-43(M) 1978-84(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,227.30 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes, combined usable capacity about 28.1 billion ft^3, with final regulation at Errol Dam, 0.4 mi upstream. Telephone and satellite telemeters at station. Gage is operated in conjunction with a co-located precipitation gage (station 444657071074401).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s, May 22, 1969, gage height 9.40 ft; minimum daily discharge, leakage only at various times when gates in dam were closed in water years 1918, 1919, 1923, 1924, 1928, and 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,000 ft^3/s, May 30, gage height, 8.04 ft; minimum daily discharge, 1,190 ft^3/s, Aug. 22, 23.

01053500 ANDROSCOGGIN RIVER AT ERROL, NH—Continued

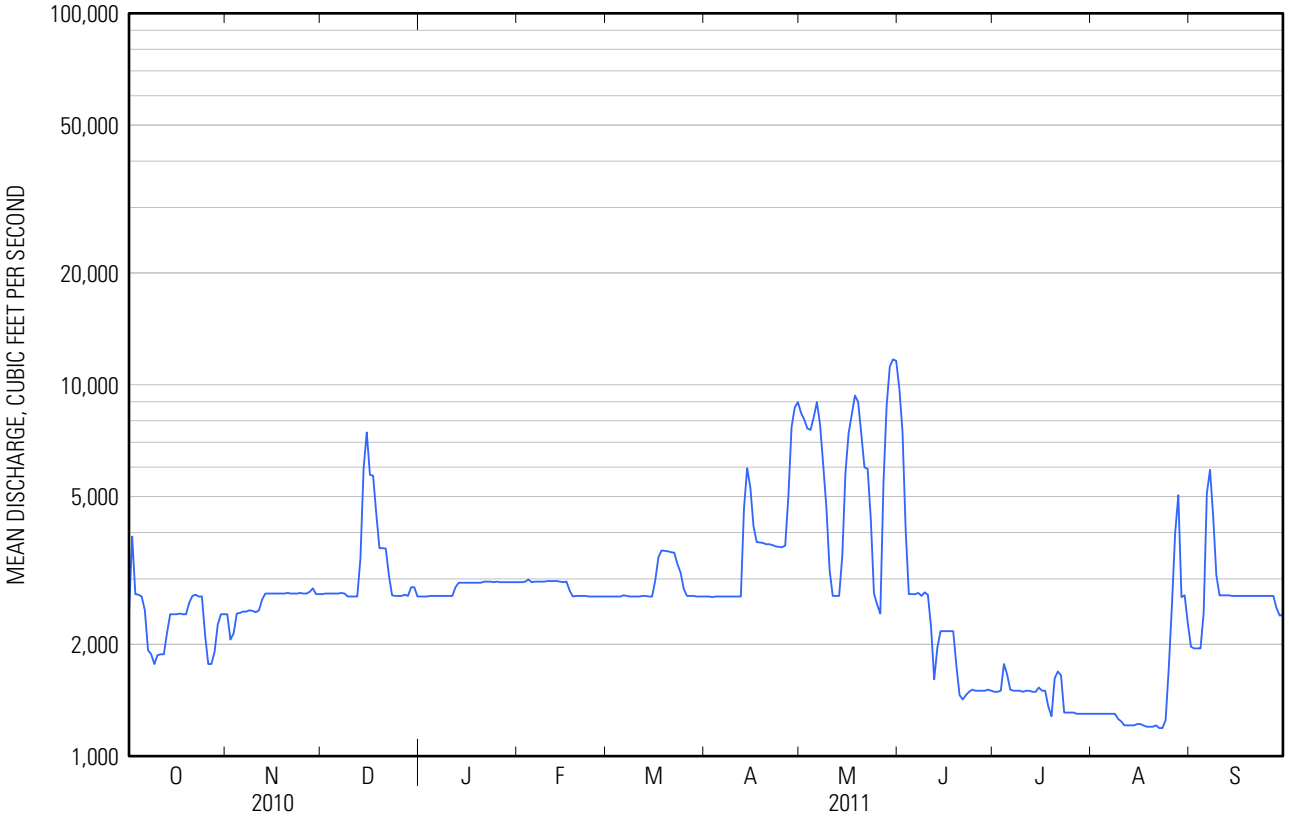
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,420	2,410	2,730	2,690	2,940	2,690	2,690	8,400	9,780	1,490	1,300	1,970
2	3,900	2,060	2,740	2,690	2,940	2,690	2,690	8,060	7,470	1,490	1,300	1,950
3	2,730	2,140	2,740	2,690	2,950	2,690	2,680	7,620	4,060	1,500	1,300	1,950
4	2,720	2,420	2,740	2,700	2,990	2,690	2,690	7,560	2,730	1,770	1,300	1,950
5	2,690	2,430	2,740	2,700	2,940	2,690	2,690	8,180	2,730	1,660	1,300	2,430
6	2,470	2,450	2,740	2,700	2,950	2,710	2,690	8,980	2,730	1,510	1,300	5,090
7	1,930	2,450	2,750	2,700	2,950	2,700	2,690	7,810	2,750	1,500	1,300	5,900
8	1,880	2,470	2,740	2,700	2,950	2,690	2,690	6,060	2,700	1,500	1,300	4,420
9	1,770	2,460	2,690	2,700	2,950	2,690	2,690	4,660	2,760	1,500	1,260	3,070
10	1,870	2,440	2,690	2,700	2,960	2,690	2,690	3,170	2,720	1,490	1,240	2,710
11	1,880	2,470	2,690	2,700	2,960	2,690	2,690	2,700	2,230	1,500	1,210	2,710
12	1,880	2,640	2,690	2,850	2,960	2,700	2,690	2,700	1,610	1,500	1,210	2,710
13	2,150	2,740	3,400	2,930	2,960	2,700	4,650	2,700	1,960	1,490	1,210	2,710
14	2,410	2,740	5,940	2,930	2,950	2,690	5,960	3,450	2,170	1,490	1,210	2,700
15	2,410	2,740	7,440	2,930	2,940	2,690	5,290	5,790	2,170	1,530	1,220	2,700
16	2,410	2,740	5,720	2,930	2,950	2,970	4,160	7,410	2,170	1,500	1,220	2,700
17	2,420	2,740	5,690	2,930	2,790	3,430	3,770	8,310	2,170	1,500	1,210	2,700
18	2,410	2,740	4,500	2,930	2,690	3,580	3,760	9,350	2,170	1,360	1,200	2,700
19	2,410	2,740	3,630	2,930	2,700	3,570	3,750	8,990	1,750	1,280	1,200	2,700
20	2,590	2,750	3,630	2,930	2,700	3,560	3,720	7,370	1,460	1,620	1,200	2,700
21	2,700	2,740	3,620	2,950	2,700	3,540	3,720	5,990	1,420	1,690	1,210	2,700
22	2,720	2,740	3,060	2,950	2,700	3,530	3,700	5,940	1,460	1,650	1,190	2,700
23	2,690	2,740	2,710	2,950	2,690	3,290	3,670	4,350	1,490	1,310	1,190	2,700
24	2,690	2,750	2,700	2,940	2,690	3,120	3,660	2,740	1,510	1,310	1,250	2,700
25	2,120	2,740	2,700	2,950	2,690	2,820	3,650	2,560	1,500	1,310	1,730	2,700
26	1,770	2,740	2,700	2,940	2,690	2,700	3,690	2,420	1,500	1,310	2,560	2,700
27	1,770	2,770	2,720	2,940	2,690	2,700	5,000	5,450	1,500	1,300	3,980	2,700
28	1,910	2,830	2,700	2,940	2,690	2,700	7,680	8,790	1,500	1,300	5,040	2,500
29	2,260	2,730	2,850	2,940	---	2,690	8,680	11,200	1,510	1,300	2,680	2,390
30	2,410	2,730	2,850	2,940	---	2,690	8,970	11,700	1,500	1,300	2,710	2,400
31	2,410	---	2,690	2,940	---	2,690	---	11,600	---	1,300	2,280	---
Total	72,800	78,280	103,930	88,340	79,660	89,980	119,750	202,010	75,180	45,260	50,810	84,660
Mean	2,348	2,609	3,353	2,850	2,845	2,903	3,992	6,516	2,506	1,460	1,639	2,822
Max	3,900	2,830	7,440	2,950	2,990	3,580	8,970	11,700	9,780	1,770	5,040	5,900
Min	1,770	2,060	2,690	2,690	2,690	2,690	2,680	2,420	1,420	1,280	1,190	1,950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,630	1,631	1,778	1,843	1,921	1,917	2,249	3,102	2,298	1,794	1,701	1,700
Max	3,949	4,559	4,784	3,589	3,656	5,454	4,736	8,192	7,129	4,621	4,030	4,738
(WY)	(1955)	(2006)	(2004)	(1970)	(2006)	(1936)	(1913)	(1974)	(1917)	(1996)	(2008)	(1954)
Min	921	759	844	760	718	592	770	1,027	763	808	840	902
(WY)	(1922)	(1922)	(1909)	(1909)	(1911)	(1948)	(1940)	(1941)	(1911)	(1915)	(1915)	(1911)

01053500 ANDROSCOGGIN RIVER AT ERROL, NH—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1905 - 2011	
Annual total	826,830		1,090,660			
Annual mean	2,265		2,988		1,963	
Highest annual mean					3,117	1996
Lowest annual mean					1,046	1911
Highest daily mean	7,440	Dec 15	11,700	May 30	16,100	May 22, 1969
Lowest daily mean	1,260	Aug 10	1,190	Aug 22	0.00	Oct 31, 1917
Annual seven-day minimum	1,330	Aug 24	1,200	Aug 17	152	Mar 21, 1948
Maximum peak flow			12,000	May 30	16,500	May 22, 1969
Maximum peak stage			8.04	May 30	9.40	May 22, 1969
10 percent exceeds	3,470		4,800		2,770	
50 percent exceeds	2,180		2,700		1,710	
90 percent exceeds	1,360		1,440		1,150