

Water-Data Report 2007

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME

Androscoggin Basin
Lower Androscoggin Subbasin

LOCATION.--Lat 44°04'20", long 70°12'29" referenced to North American Datum of 1983, Androscoggin County, ME, Hydrologic Unit 01040002, on right bank 1.5 mi downstream from Little Androscoggin River, and 2.1 mi downstream from North Bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,263 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

REVISED RECORDS.--WSP 781: 1930, 1933-34. WSP 1301: 1932-36. WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, including period of no gage-height record, June 3. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, Umbagog, Auburn, and Thompson Lakes and Gulf Island Pond with major regulation at Errol Dam, 136 mi upstream, combined usable capacity about 30,703,860,000 ft³. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft³/s, Mar. 20, 1936, gage height, 27.57 ft, from rating curve extended above 76,000 ft³/s, on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily discharge, 340 ft³/s, Sept. 28, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45,100 ft³/s, Oct. 30, gage height, 13.53 ft; minimum daily discharge, 1,940 ft³/s, Sept. 30.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,430	17,300	6,960	6,150	4,870	3,960	12,700	27,700	5,490	2,670	3,240	2,020
2	3,390	13,100	8,850	5,380	4,990	3,940	12,200	24,800	6,010	2,680	2,110	2,030
3	3,860	12,700	12,800	4,290	2,910	3,950	12,200	21,900	e6,740	2,700	2,070	2,010
4	3,650	10,600	11,300	4,220	2,860	3,960	12,000	18,200	8,400	2,380	2,090	2,560
5	3,800	9,920	10,200	5,320	4,320	3,970	10,500	15,800	13,500	2,440	2,090	2,560
6	3,730	8,920	9,340	6,510	4,470	3,960	8,070	14,500	19,800	2,030	2,170	2,550
7	3,090	8,660	7,220	8,440	4,960	3,980	8,650	12,200	14,500	2,030	2,140	2,520
8	3,050	8,550	6,980	12,800	4,920	3,960	8,540	11,700	11,800	2,050	2,090	2,030
9	3,170	8,320	6,820	13,300	5,010	4,420	7,910	11,800	9,900	2,060	2,980	2,130
10	3,410	14,500	5,990	10,900	2,880	3,620	7,180	12,000	8,380	2,060	3,680	2,160
11	3,660	13,200	5,940	7,510	2,700	3,700	7,120	11,600	7,260	2,670	3,660	2,520
12	5,070	11,700	4,580	6,410	4,460	4,340	6,790	12,700	6,890	4,690	3,640	3,030
13	11,400	11,300	5,090	5,980	4,550	5,030	6,770	11,900	6,330	8,460	3,660	3,240
14	9,480	14,100	5,930	6,960	4,590	5,100	6,970	10,400	5,450	5,220	2,880	2,760
15	6,980	21,200	6,370	6,120	4,570	5,370	8,280	9,460	4,570	4,080	2,790	2,360
16	5,200	17,900	6,380	6,020	4,600	6,100	18,600	10,400	3,980	3,650	2,800	2,370
17	4,720	18,600	5,270	6,420	2,800	6,660	39,500	18,600	3,880	3,600	2,680	2,710
18	5,040	31,900	4,050	5,710	2,690	6,510	41,700	24,600	4,870	3,640	2,060	2,650
19	7,540	22,400	4,830	3,840	4,540	7,310	37,200	22,700	2,900	3,690	2,000	2,780
20	10,900	15,900	6,060	4,100	3,800	7,260	33,800	20,400	3,110	3,810	2,020	3,040
21	19,100	13,100	6,130	4,310	3,790	7,200	32,100	24,700	3,650	2,170	1,990	2,930
22	25,200	11,400	5,900	5,530	4,590	6,980	32,000	24,900	3,520	2,370	2,010	2,270
23	17,900	9,720	5,470	5,780	4,660	6,640	32,000	18,500	3,200	3,650	2,020	2,230
24	16,300	9,260	7,010	5,130	5,630	7,090	36,200	15,500	3,160	3,300	2,010	2,230
25	14,900	8,530	8,210	5,240	4,710	9,350	38,800	12,200	3,000	3,340	2,000	2,230
26	12,800	7,500	8,710	6,300	3,970	10,400	33,100	9,550	3,080	3,350	1,990	2,230
27	11,400	7,090	7,380	5,950	3,950	10,500	26,400	7,730	2,610	3,350	1,990	2,070
28	12,800	7,080	7,470	5,080	3,960	11,600	23,000	6,710	3,170	2,200	1,990	2,050
29	35,300	6,980	6,810	5,280	---	14,300	23,500	6,630	3,010	2,070	1,990	2,610
30	38,600	6,870	6,680	4,970	---	14,000	25,500	6,380	2,350	3,200	2,010	1,940
31	23,400	---	6,540	4,880	---	12,800	---	5,950	---	2,220	2,520	---
Total	332,270	378,300	217,270	194,830	116,750	207,960	609,280	462,110	184,510	97,830	75,370	72,820
Mean	10,720	12,610	7,009	6,285	4,170	6,708	20,310	14,910	6,150	3,156	2,431	2,427
Max	38,600	31,900	12,800	13,300	5,630	14,300	41,700	27,700	19,800	8,460	3,680	3,240
Min	3,050	6,870	4,050	3,840	2,690	3,620	6,770	5,950	2,350	2,030	1,990	1,940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,382	5,811	5,458	4,610	4,448	7,244	15,290	11,580	6,029	3,672	3,091	3,213
Max	14,620	14,600	21,260	10,620	13,570	32,680	26,540	24,940	16,920	12,930	7,185	16,700
(WY)	(2006)	(2006)	(1974)	(2006)	(1970)	(1936)	(2005)	(1937)	(1998)	(1996)	(1976)	(1954)
Min	1,848	1,904	1,845	1,852	1,881	2,384	5,722	3,688	2,518	2,039	1,762	1,439
(WY)	(2002)	(1953)	(1979)	(1948)	(1948)	(1940)	(1995)	(1941)	(1941)	(1965)	(1995)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1929 - 2007	
Annual total	3,074,540		2,949,300			
Annual mean	8,423		8,080		6,236	
Highest annual mean					9,828	1996
Lowest annual mean					3,500	1941
Highest daily mean	38,600	Oct 30	41,700	Apr 18	114,000	Mar 20, 1936
Lowest daily mean	2,110	Sep 29	1,940	Sep 30	340	Sep 28, 1941
Annual seven-day minimum	2,560	Sep 25	2,000	Aug 24	1,320	Aug 29, 1995
Maximum peak flow			45,100	Oct 30	135,000	Mar 20, 1936
Maximum peak stage			13.53	Oct 30	27.57	Mar 20, 1936
10 percent exceeds	15,700		18,000		13,100	
50 percent exceeds	6,760		5,450		4,210	
90 percent exceeds	3,400		2,190		1,990	

