



Water-Data Report 2007

**01054300 ELLIS RIVER AT SOUTH ANDOVER, ME**

Androscoggin Basin  
Lower Androscoggin Subbasin

LOCATION.--Lat 44°35'36", long 70°43'59" referenced to North American Datum of 1983, Oxford County, ME, Hydrologic Unit 01040002, on left bank 100 ft upstream from covered bridge at South Andover.

DRAINAGE AREA.--130 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--

DISCHARGE: February 1963 to September 1982, October 2000 to current year.

REVISED RECORDS.--WDR ME-81-1: Drainage area. WDR ME-05-1: 1967-69(M), 1970(P), 1971(M), 1973(M), 1974(P), 1976-78(M), 1979(P), 1980-82(M).

GAGE.--Water-stage recorder. Datum of gage is 620.00 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good, except for periods of ice effect, Dec. 29 to Jan. 5, and Jan. 11 to Mar. 27, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,830 ft<sup>3</sup>/s, Dec. 18, 2003, gage height, 19.26 ft; minimum discharge, 8.4 ft<sup>3</sup>/s, Sept. 11, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Oct 21	0715	3,240	15.84
Oct 29	0215	*5,570	*17.96
Nov 17	1800	2,930	15.46
Apr 24	0215	3,540	16.19

Minimum discharge, 23 ft<sup>3</sup>/s, Sept. 7-9, gage height, 4.41 ft.

## 01054300 ELLIS RIVER AT SOUTH ANDOVER, ME—Continued

**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	55	741	297	e172	e73	e46	463	1,610	183	42	47	36
2	48	653	646	e181	e74	e47	550	1,190	186	41	42	34
3	46	585	506	e167	e77	e52	512	990	257	40	40	31
4	44	483	391	e157	e78	e57	436	826	298	39	44	29
5	50	411	313	e154	e75	e55	380	747	1,260	40	42	27
6	57	365	268	326	e71	e53	357	666	874	44	48	25
7	50	328	257	566	e68	e51	305	589	519	45	155	24
8	47	304	241	390	e65	e49	268	585	378	43	98	24
9	45	746	247	378	e63	e48	248	618	304	46	118	25
10	43	705	221	295	e60	e49	228	594	327	90	85	40
11	42	509	213	e229	e57	e57	213	547	253	72	68	46
12	385	423	207	e212	e55	e68	230	486	206	871	58	56
13	387	496	195	e195	e53	e79	231	390	174	404	52	53
14	200	851	212	e179	e55	e118	232	319	152	243	47	41
15	146	1,000	221	e168	e57	e203	262	283	134	178	43	47
16	118	654	223	e159	e58	e346	522	748	117	169	42	98
17	102	1,770	233	e148	e59	e311	1,160	1,540	107	124	44	64
18	530	1,550	233	e138	e56	e314	1,270	817	112	97	61	51
19	542	835	218	e130	e53	e289	1,440	650	95	123	52	44
20	447	639	189	e122	e51	e265	1,680	726	86	199	44	40
21	2,300	522	176	e115	e51	e238	1,850	1,490	86	208	41	37
22	1,080	442	164	e109	e50	e232	2,090	838	82	131	38	34
23	714	389	302	e102	e50	e449	2,310	611	94	97	36	33
24	814	351	546	e98	e48	e654	3,260	504	79	81	36	30
25	715	311	403	e94	e48	e597	2,190	427	65	71	41	28
26	593	281	337	e90	e47	e602	1,420	358	58	63	55	27
27	472	266	327	e87	e46	e643	1,270	297	53	57	54	27
28	825	258	264	e84	e46	e947	1,220	268	50	63	43	34
29	3,810	254	e211	e80	---	745	1,500	235	48	81	38	40
30	1,560	250	e179	e78	---	531	1,600	201	45	64	36	33
31	942	---	e175	e76	---	494	---	191	---	53	36	---
<b>Total</b>	17,209	17,372	8,615	5,479	1,644	8,689	29,697	20,341	6,682	3,919	1,684	1,158
<b>Mean</b>	555	579	278	177	58.7	280	990	656	223	126	54.3	38.6
<b>Max</b>	3,810	1,770	646	566	78	947	3,260	1,610	1,260	871	155	98
<b>Min</b>	42	250	164	76	46	46	213	191	45	39	36	24
<b>Cfsm</b>	4.27	4.45	2.14	1.36	0.45	2.16	7.61	5.05	1.71	0.97	0.42	0.30
<b>In.</b>	4.92	4.97	2.47	1.57	0.47	2.49	8.50	5.82	1.91	1.12	0.48	0.33

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	205	275	286	151	139	229	771	556	227	112	78.2	72.5
<b>Max</b>	840	703	1,455	579	620	579	1,429	1,190	540	467	279	283
<b>(WY)</b>	(2006)	(1970)	(2004)	(2006)	(1981)	(1979)	(2005)	(1969)	(2006)	(1973)	(1976)	(1981)
<b>Min</b>	26.4	33.8	34.1	45.0	31.1	30.6	369	224	60.1	33.0	15.3	15.6
<b>(WY)</b>	(2002)	(1979)	(1979)	(2003)	(1980)	(1967)	(1981)	(1977)	(1964)	(1965)	(2002)	(2002)

01054300 ELLIS RIVER AT SOUTH ANDOVER, ME—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1963 - 2007	
<b>Annual total</b>	133,899		122,489			
<b>Annual mean</b>	367		336		262	
<b>Highest annual mean</b>					404	2006
<b>Lowest annual mean</b>					132	1965
<b>Highest daily mean</b>	3,810	Oct 29	3,810	Oct 29	5,420	Dec 18, 2003
<b>Lowest daily mean</b>	39	Sep 28	24	Sep 7	8.8	Sep 11, 2002
<b>Annual seven-day minimum</b>	42	Sep 23	26	Sep 3	9.3	Sep 8, 2002
<b>Maximum peak flow</b>			5,570	Oct 29	7,830	Dec 18, 2003
<b>Maximum peak stage</b>			17.96	Oct 29	19.26	Dec 18, 2003
<b>Instantaneous low flow</b>			23	Sep 7	8.4	Sep 11, 2002
<b>Annual runoff (cfsm)</b>	2.82		2.58		2.01	
<b>Annual runoff (inches)</b>	38.32		35.05		27.37	
<b>10 percent exceeds</b>	816		820		628	
<b>50 percent exceeds</b>	242		175		120	
<b>90 percent exceeds</b>	56		42		34	

