Water-Data Report 2011

01046500 KENNEBEC RIVER AT BINGHAM, ME

Kennebec Basin
Lower Kennebec Subbasin

LOCATION.--Lat 45°03′07″, long 69°53′08″ referenced to North American Datum of 1983, Somerset County, ME, Hydrologic Unit 01030003, on right bank at Bingham, 50 ft downstream from State Route 16 highway bridge, 0.4 mi downstream from Austin Stream, and 1.6 mi downstream from Wyman Dam.

DRAINAGE AREA.--2,715 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--
DISCHARGE: June 1907 to June 1910, October 1930 to current year. Monthly discharge only for some periods prior to June 1910 published in WSP 1301.

REVISED RECORDS.--WSP 1271: 1951(M). WSP 1301: 1936(M). WDR 81-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 330.20 ft above National Geodetic Vertical Datum of 1929. June 1907 to June 1910, nonrecording gage on highway bridge at different datum.

REMARKS.--Records good, including periods of ice effect, Jan. 23-25, Feb. 6, 8-9, 15-16 and 19-24. Flow regulated by Moosehead Lake, Indian Pond, and Brassua, Flagstaff, and Wyman Lakes, combined capacity about 47.8 billion ft^3. Considerable diurnal fluctuation caused by power plant above station. Satellite telemeter at station. Gage is operated in conjunction with a co-located precipitation gage (station 450306069531101).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,200 ft^3/s, June 1, 1984, gage height, 15.61 ft; minimum daily discharge, 110 ft^3/s, Dec. 25, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,700 ft^3/s, Apr. 28, gage height, 13.06 ft; minimum daily discharge, 1,890 ft^3/s, July 28.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01046500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01046500.2011.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,540	5,320	5,320	6,080	6,420	5,190	4,610	29,200	12,900	3,010	2,150	3,170
2	12,000	5,090	6,830	6,070	6,360	5,240	4,690	26,300	14,100	2,910	2,300	3,510
3	5,990	5,290	8,140	6,140	6,350	5,360	4,560	22,600	11,900	2,790	2,430	3,880
4	3,180	5,530	6,970	5,940	6,370	5,250	4,740	22,800	5,960	2,720	2,190	3,890
5	3,190	9,330	6,700	6,090	6,210	4,800	4,260	24,900	6,040	2,910	2,310	10,100
6	3,520	9,770	5,890	6,270	e5,720	6,110	3,810	26,000	6,000	3,070	2,180	23,500
7	4,200	8,400	5,850	6,150	5,870	6,030	4,490	22,300	5,680	2,810	2,360	23,300
8	4,230	13,000	5,050	6,080	e5,710	5,290	4,380	20,100	5,320	2,890	2,440	14,200
9	4,380	20,500	5,520	4,680	e5,760	4,860	4,630	17,400	5,730	3,040	2,360	11,900
10	4,250	20,500	5,900	4,050	5,910	4,840	6,670	14,700	5,190	3,000	2,150	8,260
11	4,310	15,900	6,040	4,490	5,940	4,610	6,770	10,700	5,360	3,140	2,230	8,800
12	4,550	17,000	6,540	5,640	5,960	4,630	11,000	7,870	5,360	2,900	2,280	7,810
13	4,520	11,300	22,300	6,100	5,960	4,480	14,100	5,990	5,260	2,890	2,420	7,020
14	4,730	10,900	31,000	6,570	5,920	4,370	12,200	8,050	5,390	3,040	2,090	7,310
15	5,830	9,980	23,800	6,730	e5,950	3,980	11,000	15,400	5,070	3,150	2,170	8,130
16	15,600	9,370	16,400	5,890	e6,030	3,790	9,780	25,400	5,240	2,900	2,290	7,370
17	17,400	10,000	14,500	5,750	5,600	3,750	9,400	27,700	5,510	3,400	2,150	7,300
18	4,720	11,600	11,800	6,140	5,830	4,790	11,600	24,500	5,560	2,840	2,030	6,560
19	3,890	13,700	10,700	6,170	e5,790	3,600	9,110	18,800	4,180	3,070	2,090	6,040
20	3,900	9,970	10,300	6,200	e5,890	5,700	8,100	16,200	4,460	2,220	2,570	6,790
21	4,490	9,600	8,540	6,220	e5,920	4,680	7,530	14,200	4,480	2,420	2,320	7,320
22	4,950	7,210	8,210	6,250	e6,020	4,070	6,710	15,600	3,270	2,320	2,180	7,320
23	4,610	5,580	7,120	e6,480	e5,890	4,710	6,380	11,900	3,640	2,320	2,170	7,310
24	4,810	5,530	7,070	e6,480	e5,870	5,010	6,700	8,320	3,390	2,330	2,080	7,330
25	4,530	5,730	6,990	e6,260	5,720	5,240	7,380	6,690	3,370	2,330	3,060	7,510
26	4,390	5,830	6,970	6,310	4,760	4,660	10,400	5,470	3,340	2,140	3,840	7,320
27	4,480	5,310	7,350	6,310	4,640	5,210	20,800	8,430	3,510	1,900	5,770	7,060
28	4,440	5,190	7,000	6,340	4,980	4,950	29,000	28,000	3,140	1,890	10,400	7,070
29	4,930	4,790	6,650	6,390	---	4,960	32,700	31,200	3,290	2,170	22,300	7,440
30	6,030	5,580	6,930	6,250	---	4,950	32,700	22,600	3,140	2,160	4,490	7,460
31	5,950	---	6,930	6,420	---	4,910	---	15,000	---	2,310	4,230	---
Total	174,540	282,800	295,310	186,940	163,350	150,020	310,200	554,320	164,780	82,990	108,030	251,980
Mean	5,630	9,427	9,526	6,030	5,834	4,839	10,340	17,880	5,493	2,677	3,485	8,399
Max	17,400	20,500	31,000	6,730	6,420	6,110	32,700	31,200	14,100	3,400	22,300	23,500
Min	3,180	4,790	5,050	4,050	4,640	3,600	3,810	5,470	3,140	1,890	2,030	3,170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,507	3,845	3,824	3,813	4,072	4,388	7,410	8,842	4,933	3,679	3,318	3,348
Max	9,319	12,380	12,510	7,684	8,898	15,070	16,080	22,160	13,600	11,540	8,296	10,140
(WY)	(1955)	(2006)	(1974)	(1970)	(1996)	(1936)	(1983)	(1974)	(1984)	(1996)	(2008)	(1954)
Min	1,122	744	749	1,070	1,540	1,525	2,627	2,192	1,638	1,954	1,809	1,829
(WY)	(1909)	(1909)	(1909)	(1909)	(2002)	(1985)	(1981)	(1980)	(1988)	(1988)	(2010)	(1987)

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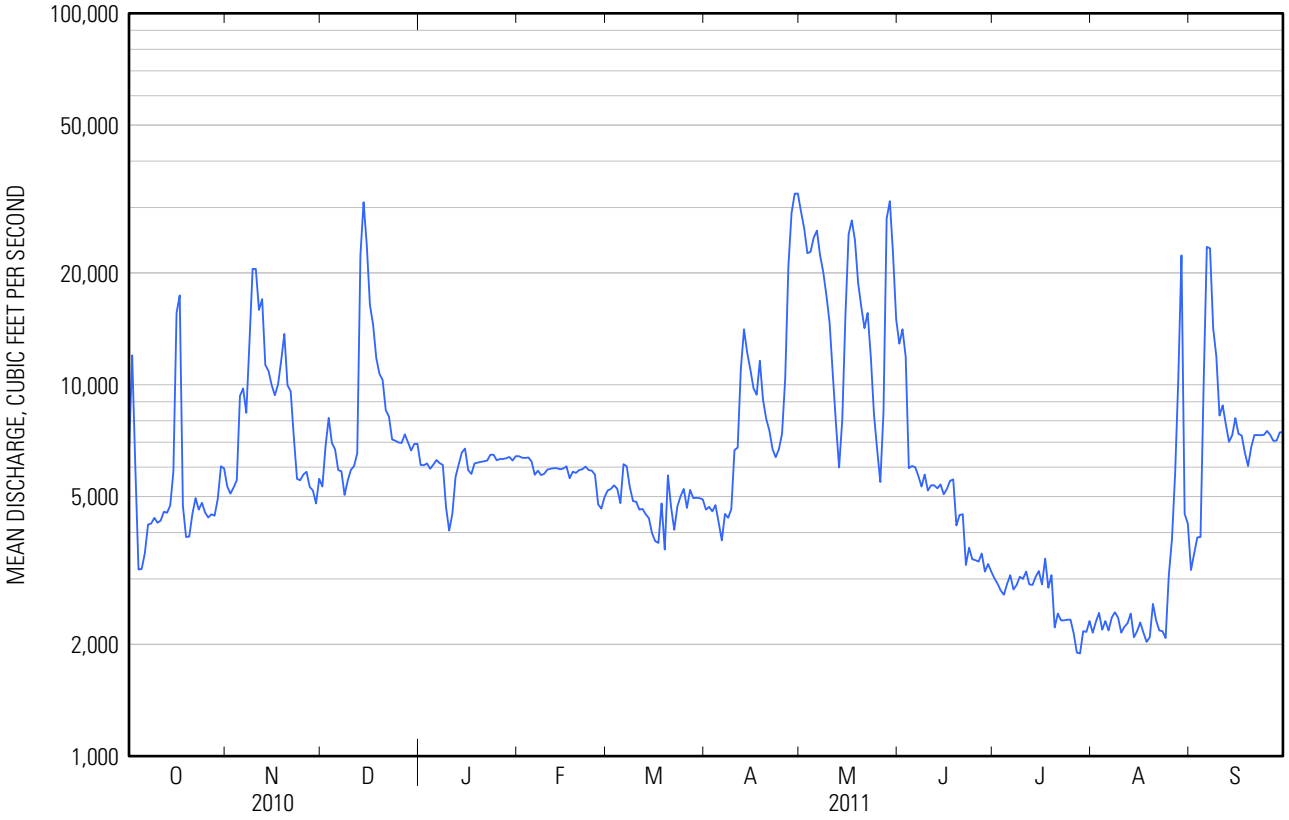
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1908 - 2011	
Annual total	2,071,610		2,725,260			
Annual mean	5,676		7,466		4,582	
Highest annual mean					7,881	1996
Lowest annual mean					2,613	1980
Highest daily mean	31,000	Dec 14	32,700	Apr 29	62,000	Jun 1, 1984
Lowest daily mean	1,540	Aug 5	1,890	Jul 28	110	Dec 25, 1947
Annual seven-day minimum	1,670	Sep 7	2,100	Jul 26	587	Nov 18, 1908
Maximum peak flow			35,700	Apr 28	65,200	Jun 1, 1984
Maximum peak stage			13.06	Apr 28	15.61	Jun 1, 1984
10 percent exceeds	10,500		15,200		7,970	
50 percent exceeds	4,810		5,870		3,510	
90 percent exceeds	1,920		2,660		2,170