04292500 LAMOILLE RIVER AT EAST GEORGIA, VT

Richelieu Basin
Lamoille Subbasin

LOCATION.--Lat 44°40′45″, long 73°04′23″ referenced to North American Datum of 1927, Franklin County, Hydrologic Unit 02010005, on right bank, 0.5 mi upstream from New England Central Railroad bridge at East Georgia, 0.9 mi downstream from Beaver Meadow Brook and 3.3 mi northeast of Main Street and US 7 intersection in Milton.

DRAINAGE AREA.--686. mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge records: August 1929 to current year. Prior to October 1937, published as "near Milton."

REVISED RECORDS.--WSP 894: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 285 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to December 1, 1937, at site 3.5 mi downstream at different datum.

COOPERATION.--Vermont Department of Environmental Conservation.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Low flow regulated by power plants upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,400 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 17	1645	14,300	10.14
Jan 19	1230	Ice jam	*12.24
May 20	1730	*21,900	11.99
Jun 11	1400	11,700	9.44

Minimum daily discharge, 263 ft^3/s, Aug 19.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	672	3,180	6,280	e1,880	1,660	e779	3,040	962	1,750	3,180	508	411
2	534	3,440	3,420	e1,560	1,370	e756	6,020	828	1,620	3,800	1,440	361
3	486	2,520	2,540	e1,370	1,550	e758	3,650	1,130	1,410	3,750	3,470	358
4	390	1,870	1,910	e1,220	2,990	e704	3,510	1,540	2,540	1,940	2,090	402
5	332	1,590	1,660	e1,130	4,380	e712	5,060	1,220	2,590	2,760	1,160	485
6	306	1,410	1,420	e1,130	6,400	e736	3,220	1,040	1,950	2,190	805	506
7	291	1,970	1,300	e1,030	3,280	e734	2,470	1,130	1,340	1,390	649	437
8	2,020	1,890	970	e965	2,170	e721	3,320	997	1,210	1,110	671	376
9	3,430	1,490	908	e984	e1,820	e688	2,470	856	1,340	906	641	356
10	1,970	2,240	1,060	e1,090	e1,480	e693	1,820	773	3,780	807	501	422
11	1,210	2,480	e1,100	e1,180	e1,220	e1,220	1,630	686	11,000	666	460	384
12	955	1,640	e1,070	e1,850	e1,180	e1,700	1,600	710	6,780	598	456	336
13	868	1,350	e1,000	e2,450	e1,210	e2,040	1,870	699	3,520	1,430	398	319
14	797	1,230	e961	e3,740	e1,210	e4,110	1,870	1,190	2,110	1,470	360	382
15	2,070	1,250	e1,010	e5,500	e1,240	e4,270	1,690	1,280	1,640	900	339	447
16	6,300	3,960	e1,090	e3,320	1,280	2,670	2,020	1,070	1,330	715	323	393
17	12,700	7,930	e1,180	e2,230	1,320	1,720	1,600	2,180	1,130	618	311	377
18	8,500	5,200	e1,170	e4,740	e1,720	e1,350	1,320	4,220	1,010	549	298	345
19	5,640	2,650	e1,020	e9,160	e1,360	e1,200	1,230	7,190	1,010	601	263	310
20	3,820	1,980	e984	e5,700	e1,150	e1,070	1,140	19,300	1,320	475	536	320
21	2,320	1,670	e913	e4,570	e1,080	e1,100	1,040	15,300	2,030	391	2,460	383
22	1,700	1,690	e869	e4,300	e1,000	e1,030	958	8,450	1,240	400	1,520	427
23	2,840	2,520	e904	2,890	e981	e970	1,150	5,720	1,190	651	879	380
24	4,580	1,900	e894	2,340	e957	e1,100	1,790	3,890	1,040	694	628	363
25	3,940	1,570	e925	1,990	e909	1,250	2,730	2,750	806	566	505	356
26	7,180	1,400	e1,420	e1,680	e848	1,330	2,020	2,000	1,180	566	434	343
27	6,250	1,290	e2,320	e1,540	e790	1,250	1,490	1,730	7,670	518	412	330
28	3,980	1,620	e2,180	e1,530	e808	1,240	1,260	1,520	4,930	471	457	306
29	2,880	3,300	e1,760	e1,480	---	1,320	1,090	1,250	3,390	512	511	767
30	2,430	6,930	e2,380	1,600	---	1,470	1,030	1,090	3,880	515	468	2,590
31	2,750	---	e2,270	1,810	---	1,750	---	1,040	---	464	433	---
Total	94,141	75,160	48,888	77,959	47,363	42,441	65,108	93,741	77,736	35,603	24,386	13,972
Mean	3,037	2,505	1,577	2,515	1,692	1,369	2,170	3,024	2,591	1,148	787	466
Max	12,700	7,930	6,280	9,160	6,400	4,270	6,020	19,300	11,000	3,800	3,470	2,590
Min	291	1,230	869	965	790	688	958	686	806	391	263	306
Cfsm	4.43	3.65	2.30	3.67	2.47	2.00	3.16	4.41	3.78	1.67	1.15	0.68
In.	5.11	4.08	2.65	4.23	2.57	2.30	3.53	5.08	4.22	1.93	1.32	0.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,017	1,324	1,133	924	812	1,649	3,618	1,847	1,006	657	618	638
Max	3,330	2,744	3,076	2,515	4,101	5,622	6,211	4,022	3,246	2,609	2,261	1,987
(WY)	(1946)	(2004)	(1974)	(2006)	(1981)	(1936)	(1933)	(1940)	(2002)	(1998)	(2004)	(1938)
Min	237	306	405	224	293	399	1,253	638	293	223	171	218
(WY)	(1954)	(1954)	(1948)	(1948)	(1962)	(1940)	(1995)	(1987)	(1988)	(1991)	(2001)	(1978)

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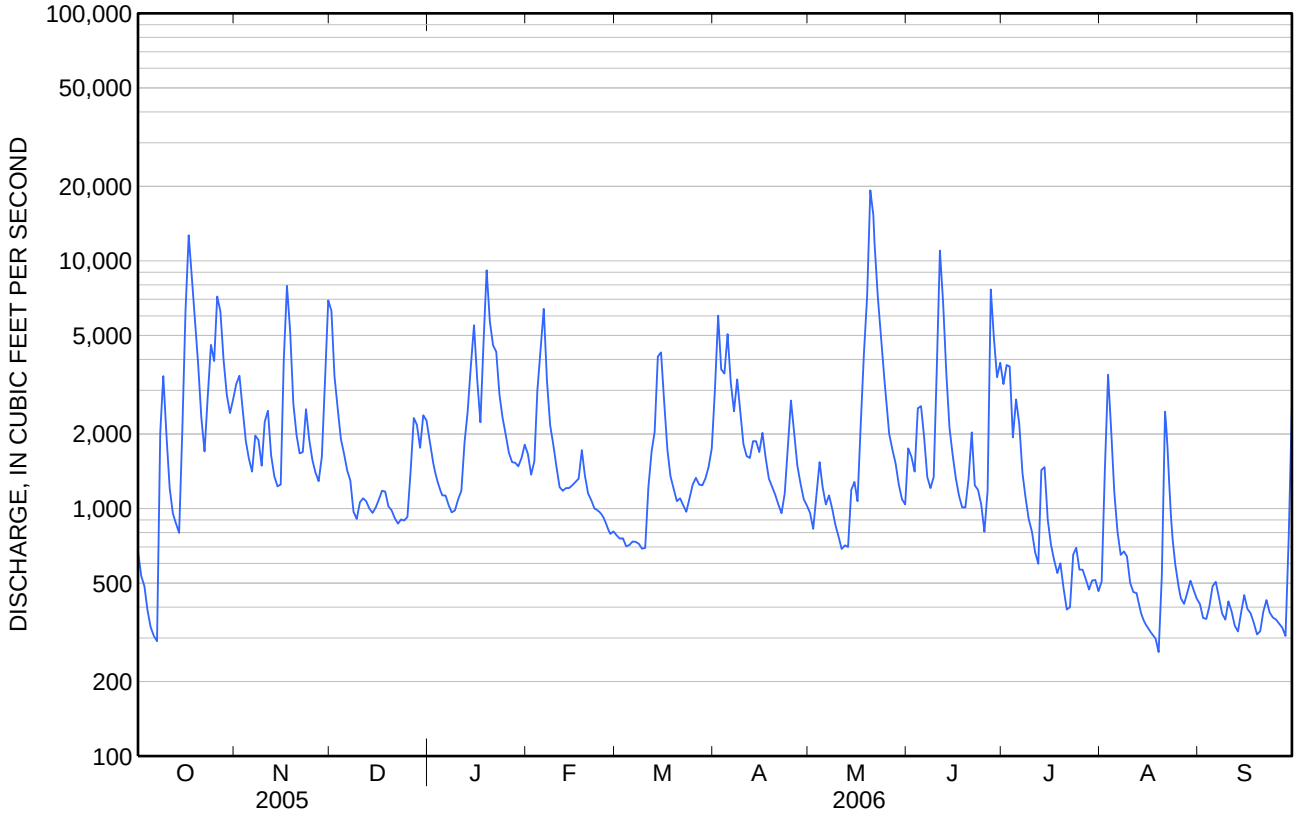
SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1929 - 2006	
Annual total	539,618		696,498			
Annual mean	1,478		1,908		1,270	
Highest annual mean					1,908	2006
Lowest annual mean					791	1965
Highest daily mean	14,100	Apr 4	19,300	May 20	21,700	Mar 19, 1936
Lowest daily mean	156	Sep 12	263	Aug 19	74	Sep 26, 1964
Annual seven-day minimum	223	Sep 10	327	Aug 13	122	Aug 30, 1934
Maximum peak flow			21,900	May 20	23,700	Apr 18, 1982
Maximum peak stage			[a]12.24	Jan 19	[a]21.64	Mar 6, 1979
Annual runoff (cfsm)	2.16		2.78		1.85	
Annual runoff (inches)	29.26		37.77		25.15	
10 percent exceeds	3,430		3,910		2,810	
50 percent exceeds	868		1,250		727	
90 percent exceeds	326		418		300	

[a] Ice jam.