

01359133 PATROON CREEK AT NORTHERN BOULEVARD AT ALBANY, NY

Upper Hudson Basin
Middle Hudson Subbasin

LOCATION.--Lat 42°40'17", long 73°45'22" referenced to North American Datum of 1927, Albany County, NY, Hydrologic Unit 02020006, atop culvert 500 ft upstream from Northern Boulevard, 700 ft downstream from railroad bridge, 1,600 ft downstream from Tivoli Lake, and 1.3 mi upstream from mouth, at Albany. Water-quality sampling site at discharge station.

DRAINAGE AREA.--13.1 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Water years 1979-83 (annual maximum only), October 2002 to March 2009 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 124 ft above NGVD of 1929, from topographic map. Prior to 2002, crest-stage gage 480 ft upstream at datum 1.10 ft higher.

REMARKS.--No estimated daily discharges. Records good. River regulated to some extent by several lakes and reservoirs upstream from station. Satellite gage-height, temperature, and specific conductance telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 620 ft³/s, Sept. 21, 1983, gage height, 11.19 ft, site and datum then in use, on basis of flow-through-culvert analysis of peak flow; minimum discharge, 0.70 ft³/s, Feb. 26, 2007, gage height, 0.57 ft, result of upstream culvert construction.

EXTREMES FOR CURRENT PERIOD.--October 2008 to March 2009: Peak discharges greater than base discharge of 300 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 25	2200	*493	*4.11
Oct 28	1515	386	3.45
Dec 12	0415	426	3.69

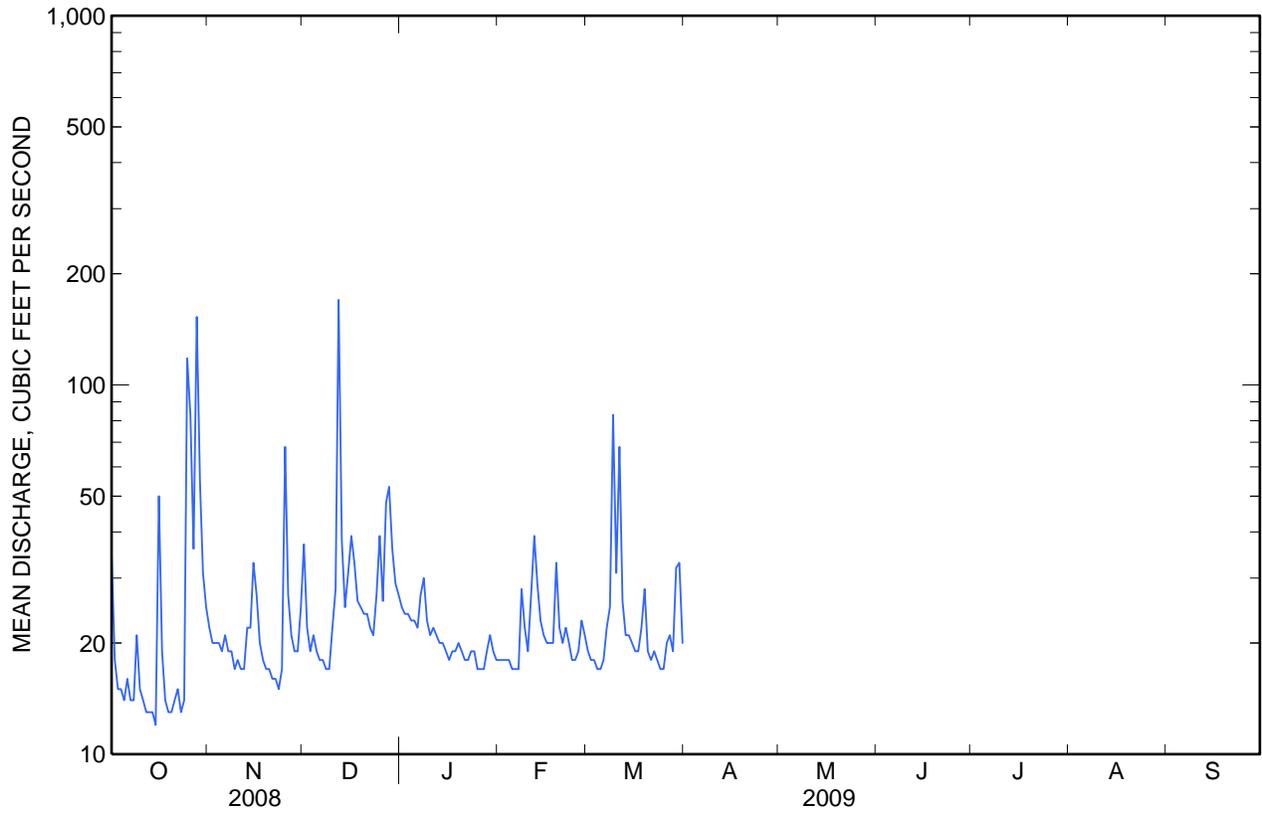
Minimum discharge, 12 ft³/s, on several days in October; minimum gage height, 0.94 ft, Oct. 15, 23, 24.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	35	22	37	25	18	19	---	---	---	---	---	---
2	18	20	22	24	18	18	---	---	---	---	---	---
3	15	20	19	24	18	18	---	---	---	---	---	---
4	15	20	21	23	18	17	---	---	---	---	---	---
5	14	19	19	23	17	17	---	---	---	---	---	---
6	16	21	18	22	17	18	---	---	---	---	---	---
7	14	19	18	27	17	22	---	---	---	---	---	---
8	14	19	17	30	28	25	---	---	---	---	---	---
9	21	17	17	23	22	83	---	---	---	---	---	---
10	15	18	22	21	19	31	---	---	---	---	---	---
11	14	17	28	22	27	68	---	---	---	---	---	---
12	13	17	170	21	39	26	---	---	---	---	---	---
13	13	22	38	20	29	21	---	---	---	---	---	---
14	13	22	25	20	23	21	---	---	---	---	---	---
15	12	33	31	19	21	20	---	---	---	---	---	---
16	50	27	39	18	20	19	---	---	---	---	---	---
17	19	20	33	19	20	19	---	---	---	---	---	---
18	14	18	26	19	20	22	---	---	---	---	---	---
19	13	17	25	20	33	28	---	---	---	---	---	---
20	13	17	24	19	22	19	---	---	---	---	---	---
21	14	16	24	18	20	18	---	---	---	---	---	---
22	15	16	22	18	22	19	---	---	---	---	---	---
23	13	15	21	19	20	18	---	---	---	---	---	---
24	14	17	27	19	18	17	---	---	---	---	---	---
25	118	68	39	17	18	17	---	---	---	---	---	---
26	83	27	26	17	19	20	---	---	---	---	---	---
27	36	21	48	17	23	21	---	---	---	---	---	---
28	153	19	53	19	21	19	---	---	---	---	---	---
29	55	19	36	21	---	32	---	---	---	---	---	---
30	31	25	29	19	---	33	---	---	---	---	---	---
31	25	---	27	18	---	20	---	---	---	---	---	---
Total	908	648	1,001	641	607	765	---	---	---	---	---	---
Mean	29.3	21.6	32.3	20.7	21.7	24.7	---	---	---	---	---	---
Max	153	68	170	30	39	83	---	---	---	---	---	---
Min	12	15	17	17	17	17	---	---	---	---	---	---
Cfsm	2.24	1.65	2.46	1.58	1.65	1.88	---	---	---	---	---	---
In.	2.58	1.84	2.84	1.82	1.72	2.17	---	---	---	---	---	---

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WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 2002 to March 2009 (discontinued).

WATER TEMPERATURE: December 2002 to March 2009 (discontinued).

INSTRUMENTATION.--Water-temperature and specific-conductance satellite telemeter provides 15-minute-interval readings.

REMARKS.--Temperature readings prior to Oct. 1, 2007, rounded to nearest 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 6,560 $\mu\text{S}/\text{cm}$, Feb. 13, 2008; minimum recorded, 97 $\mu\text{S}/\text{cm}$, July 24, 2008.

WATER TEMPERATURE: Prior to Oct. 1, 2007--Maximum, 27.0°C, Aug. 14, 2005; minimum, 0.0°C on many days during winter periods.

WATER TEMPERATURE: After Oct. 1, 2007--Maximum, 25.1°C, July 8, 2008; minimum, -0.3°C, Jan. 16, 17, 2009.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 4,050 $\mu\text{S}/\text{cm}$, Jan. 29; minimum, 251 $\mu\text{S}/\text{cm}$, Oct. 25.

WATER TEMPERATURE: Maximum, 17.3°C, Oct. 1; minimum, -0.3°C, Jan. 16, 17.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	1,120	608	871	1,080	1,060	1,070	1,100	756	940	1,220	1,110	1,160
2	1,080	811	1,010	1,110	1,070	1,090	1,120	1,070	1,090	1,200	1,150	1,170
3	1,200	1,080	1,140	1,160	1,100	1,130	1,140	1,080	1,100	1,410	1,120	1,220
4	1,200	1,040	1,140	1,160	1,150	1,150	1,160	1,020	1,130	1,220	1,150	1,170
5	1,210	1,200	1,200	1,180	1,150	1,160	1,150	1,100	1,130	2,270	1,160	1,580
6	1,270	1,100	1,210	1,200	992	1,140	1,170	1,140	1,150	1,580	1,280	1,390
7	1,280	1,260	1,270	1,140	1,030	1,130	1,190	1,170	1,180	3,440	1,240	1,940
8	1,290	1,220	1,280	1,180	1,120	1,160	1,270	1,160	1,180	3,590	2,560	3,150
9	1,250	784	1,130	1,180	1,170	1,170	1,270	1,210	1,230	2,560	1,470	1,860
10	1,220	1,190	1,200	1,220	1,130	1,180	1,940	1,210	1,360	1,470	1,290	1,360
11	1,250	1,210	1,230	1,220	1,180	1,190	3,820	1,210	1,850	1,670	1,240	1,370
12	1,270	1,250	1,260	1,200	1,180	1,190	2,920	1,120	1,570	1,590	1,400	1,470
13	1,280	1,260	1,270	1,200	1,030	1,150	1,370	1,270	1,300	1,440	1,330	1,370
14	1,280	1,260	1,270	1,170	1,100	1,130	1,300	1,280	1,290	1,380	1,250	1,300
15	1,290	1,280	1,280	1,180	487	1,050	1,510	1,020	1,280	1,260	1,240	1,250
16	1,290	377	967	1,000	633	927	1,250	859	1,030	1,260	1,220	1,240
17	1,140	936	1,070	1,090	1,000	1,050	2,710	840	1,710	1,270	1,160	1,220
18	1,230	1,140	1,170	1,100	1,080	1,090	1,950	1,400	1,620	1,640	1,220	1,350
19	1,270	1,230	1,250	1,140	1,100	1,120	1,400	1,250	1,330	2,300	1,270	1,780
20	1,290	1,260	1,280	1,160	1,140	1,150	1,800	1,250	1,390	2,060	1,450	1,620
21	1,300	1,170	1,250	1,170	1,150	1,160	1,410	1,350	1,380	1,450	1,290	1,350
22	1,260	1,080	1,180	1,170	1,160	1,170	1,500	1,340	1,410	1,290	1,280	1,280
23	1,270	1,250	1,260	1,180	1,150	1,160	1,680	1,460	1,570	1,520	1,270	1,330
24	1,360	1,250	1,270	1,240	1,160	1,180	3,720	1,500	2,560	1,520	1,290	1,380
25	1,360	251	1,030	1,160	435	690	3,440	1,570	2,360	1,320	1,280	1,300
26	1,040	345	788	1,110	854	1,010	1,570	1,360	1,430	1,300	1,260	1,280
27	1,060	820	1,010	1,150	1,070	1,110	1,790	1,230	1,390	1,280	1,210	1,260
28	881	285	568	1,190	1,110	1,150	1,230	1,110	1,150	1,790	1,240	1,310
29	925	555	845	1,180	1,040	1,130	1,130	1,100	1,110	4,050	1,500	2,640
30	992	925	955	1,160	897	1,100	1,130	1,090	1,110	3,760	1,920	2,400
31	1,100	988	1,050	---	---	---	1,120	1,100	1,110	2,210	1,540	1,790
Month	1,360	251	1,120	1,240	435	1,110	3,820	756	1,370	4,050	1,110	1,530

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	2,180	1,550	1,750	1,400	1,340	1,370	---	---	---	---	---	---
2	2,160	1,530	1,690	2,040	1,320	1,490	---	---	---	---	---	---
3	1,640	1,430	1,510	1,970	1,420	1,590	---	---	---	---	---	---
4	1,430	1,360	1,400	1,550	1,440	1,480	---	---	---	---	---	---
5	1,420	1,320	1,370	1,460	1,380	1,410	---	---	---	---	---	---
6	1,360	1,320	1,340	1,400	1,350	1,370	---	---	---	---	---	---
7	1,450	1,320	1,350	2,610	1,310	1,560	---	---	---	---	---	---
8	2,020	1,450	1,690	2,560	1,390	1,730	---	---	---	---	---	---
9	1,840	1,470	1,570	1,470	794	996	---	---	---	---	---	---
10	1,570	1,450	1,490	1,030	968	996	---	---	---	---	---	---
11	1,640	1,480	1,530	968	627	844	---	---	---	---	---	---
12	2,110	1,610	1,730	1,080	939	1,010	---	---	---	---	---	---
13	1,740	1,630	1,680	1,240	1,080	1,160	---	---	---	---	---	---
14	1,690	1,580	1,640	1,360	1,240	1,310	---	---	---	---	---	---
15	1,580	1,520	1,550	1,370	1,360	1,370	---	---	---	---	---	---
16	1,530	1,510	1,520	1,360	1,350	1,360	---	---	---	---	---	---
17	1,510	1,500	1,500	1,390	1,360	1,380	---	---	---	---	---	---
18	1,840	1,500	1,550	1,480	1,370	1,410	---	---	---	---	---	---
19	3,340	1,780	2,540	1,370	1,250	1,320	---	---	---	---	---	---
20	2,090	1,640	1,770	1,360	1,340	1,340	---	---	---	---	---	---
21	1,650	1,520	1,570	1,390	1,340	1,370	---	---	---	---	---	---
22	1,670	1,520	1,570	1,400	1,380	1,400	---	---	---	---	---	---
23	1,850	1,560	1,630	1,400	1,390	1,390	---	---	---	---	---	---
24	1,620	1,540	1,550	1,400	1,390	1,400	---	---	---	---	---	---
25	1,550	1,520	1,530	1,410	1,400	1,410	---	---	---	---	---	---
26	2,090	1,500	1,760	1,410	1,300	1,390	---	---	---	---	---	---
27	1,780	1,520	1,620	1,400	1,300	1,360	---	---	---	---	---	---
28	1,680	1,400	1,500	1,390	1,350	1,370	---	---	---	---	---	---
29	---	---	---	1,400	962	1,300	---	---	---	---	---	---
30	---	---	---	1,240	927	1,110	---	---	---	---	---	---
31	---	---	---	1,320	1,240	1,290	---	---	---	---	---	---
Month	3,340	1,320	1,600	2,610	627	1,330	---	---	---	---	---	---

01359133 PATROON CREEK AT NORTHERN BOULEVARD AT ALBANY, NY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	17.3	16.2	16.7	10.1	8.6	9.5	6.9	4.5	5.7	1.4	0.2	0.9
2	16.5	14.2	15.5	8.6	7.3	8.0	6.4	5.3	5.7	2.9	1.1	1.9
3	14.2	13.1	13.7	9.9	7.4	8.6	5.8	5.0	5.3	3.2	2.2	2.6
4	13.7	12.7	13.3	10.7	8.9	9.8	6.0	5.1	5.5	3.0	1.6	2.3
5	13.9	11.9	12.9	11.6	10.0	10.8	5.5	3.7	4.6	4.1	2.8	3.5
6	13.1	12.1	12.7	12.9	11.1	11.9	4.1	2.9	3.6	3.6	1.9	2.8
7	12.9	10.9	11.9	13.3	12.2	12.7	4.6	2.3	3.9	3.6	2.5	3.1
8	13.3	11.1	12.2	13.0	12.2	12.8	2.3	0.6	1.1	4.3	3.0	3.8
9	15.4	13.3	14.2	12.2	10.9	11.5	4.5	1.3	2.7	3.0	1.6	2.1
10	14.8	13.1	13.9	10.9	8.9	10.2	7.3	4.5	6.2	2.1	0.8	1.5
11	14.3	12.4	13.4	9.2	8.4	8.8	5.5	3.3	4.3	2.7	0.6	1.7
12	14.2	12.5	13.4	8.8	7.7	8.3	3.3	1.0	2.3	2.9	2.0	2.4
13	14.6	13.0	13.8	9.1	7.6	8.3	2.9	2.3	2.6	3.6	1.7	2.6
14	15.4	14.0	14.6	11.5	9.1	10.4	4.4	2.5	3.5	3.3	0.7	1.4
15	15.0	13.6	14.2	15.0	11.3	12.2	7.9	4.3	5.8	1.3	0.3	0.8
16	14.9	13.8	14.2	13.7	8.9	11.2	6.9	3.7	4.8	0.5	-0.3	0.2
17	13.9	12.2	13.1	8.9	7.5	8.3	4.7	3.1	3.9	0.9	-0.3	0.2
18	12.2	10.5	11.1	7.5	6.0	6.8	5.3	4.2	4.7	2.4	0.7	1.5
19	10.9	9.4	10.2	6.0	5.0	5.5	4.2	0.7	2.8	3.3	1.9	2.7
20	10.9	8.6	9.8	5.7	4.5	5.0	2.3	0.7	1.6	2.8	2.0	2.4
21	10.8	10.2	10.4	4.8	3.8	4.3	2.3	1.9	2.1	2.2	0.7	1.5
22	10.3	9.4	9.8	3.8	2.9	3.2	2.2	1.4	1.8	3.3	1.9	2.5
23	10.0	8.9	9.4	4.0	2.3	3.1	2.8	0.9	1.8	4.1	3.0	3.5
24	9.8	7.6	8.7	5.7	3.7	4.5	4.1	2.6	3.3	3.9	0.7	2.7
25	13.7	9.7	11.1	5.7	4.8	5.1	4.0	3.6	3.8	1.5	0.0	0.7
26	12.8	11.3	11.9	5.8	4.9	5.4	4.1	2.8	3.5	1.5	0.0	0.8
27	11.4	10.8	11.1	6.1	5.1	5.6	4.3	3.6	4.0	2.2	0.8	1.5
28	10.8	6.9	8.8	6.5	5.4	6.0	5.8	4.2	4.9	2.1	0.7	1.3
29	8.8	7.4	8.3	6.3	5.4	5.8	4.9	4.1	4.6	2.8	1.6	2.3
30	8.5	7.4	7.9	5.4	4.6	5.0	4.3	3.4	4.0	3.2	1.9	2.5
31	9.5	7.1	8.3	---	---	---	3.4	1.2	2.4	2.7	1.0	1.7
Month	17.3	6.9	12.0	15.0	2.3	8.0	7.9	0.6	3.8	4.3	-0.3	2.0

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	3.4	1.5	2.4	3.6	1.5	2.4	---	---	---	---	---	---
2	4.0	2.4	3.2	2.9	0.8	1.7	---	---	---	---	---	---
3	3.9	2.1	3.2	2.2	-0.1	1.0	---	---	---	---	---	---
4	2.1	0.6	1.3	3.4	0.2	1.7	---	---	---	---	---	---
5	0.8	-0.1	0.3	4.8	1.2	3.0	---	---	---	---	---	---
6	1.8	-0.1	0.8	5.4	3.7	4.5	---	---	---	---	---	---
7	3.3	0.5	1.7	7.2	4.4	5.7	---	---	---	---	---	---
8	3.9	2.7	3.5	8.4	5.6	6.7	---	---	---	---	---	---
9	4.1	2.2	3.1	6.3	3.6	4.4	---	---	---	---	---	---
10	4.3	2.2	3.1	5.7	3.9	4.7	---	---	---	---	---	---
11	4.8	3.7	4.3	5.9	3.5	4.7	---	---	---	---	---	---
12	4.3	3.5	3.9	5.1	2.8	3.8	---	---	---	---	---	---
13	3.8	2.1	3.1	5.8	2.1	3.7	---	---	---	---	---	---
14	3.6	1.6	2.5	7.1	2.9	4.9	---	---	---	---	---	---
15	3.9	1.7	2.7	8.3	3.8	5.9	---	---	---	---	---	---
16	4.3	1.9	2.9	8.2	4.5	6.3	---	---	---	---	---	---
17	4.5	2.5	3.3	9.2	5.4	7.2	---	---	---	---	---	---
18	3.6	1.9	2.9	9.0	6.0	7.5	---	---	---	---	---	---
19	4.3	2.6	3.5	8.8	6.7	7.8	---	---	---	---	---	---
20	2.6	1.7	2.2	7.6	4.8	6.1	---	---	---	---	---	---
21	4.1	1.8	2.8	7.8	3.7	5.7	---	---	---	---	---	---
22	4.0	2.9	3.4	7.1	5.0	5.9	---	---	---	---	---	---
23	3.0	1.8	2.4	6.5	3.4	4.9	---	---	---	---	---	---
24	3.0	0.6	1.7	7.2	2.9	4.9	---	---	---	---	---	---
25	4.2	1.2	2.6	8.2	3.8	6.0	---	---	---	---	---	---
26	5.3	2.9	4.0	7.5	5.5	6.5	---	---	---	---	---	---
27	5.6	3.8	4.7	10.7	6.7	8.5	---	---	---	---	---	---
28	5.2	2.6	3.8	12.1	7.7	9.8	---	---	---	---	---	---
29	---	---	---	10.6	9.3	9.8	---	---	---	---	---	---
30	---	---	---	9.4	7.2	8.5	---	---	---	---	---	---
31	---	---	---	10.5	6.2	8.2	---	---	---	---	---	---
Month	5.6	-0.1	2.8	12.1	-0.1	5.6	---	---	---	---	---	---