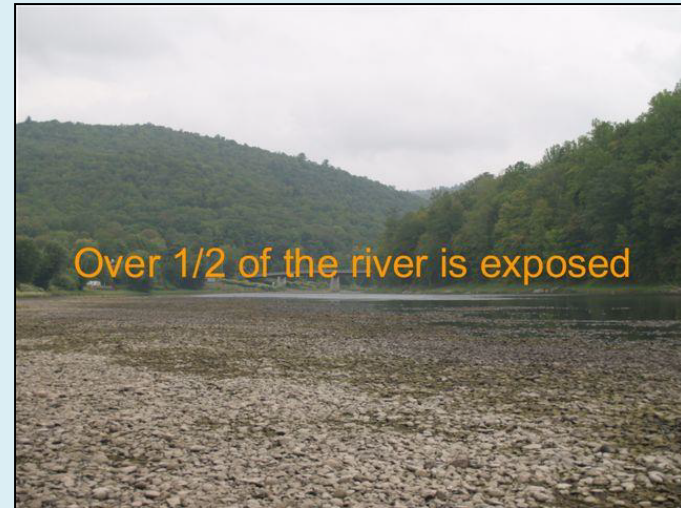


Dewatering Events



September 4, 2008



September 5, 2008

Garth Pettinger - NYSTU Delaware Committee

Presented to an advisory subcommittee of the DRBC. Contents should not be published or re-posted in whole or in part without the permission of the author(s) or the subcommittee.

Dewatering Events

There are three primary causes of sudden low flow (dewatering) events:

1. Rivermaster induced rapid flow reductions in anticipation of storms (usually in Sept & Oct)
2. Low inflow during cold winters (usually in Feb)
3. Lake Wallenpaupack operations, and balancing the Montague flow target

Delaware River Basin

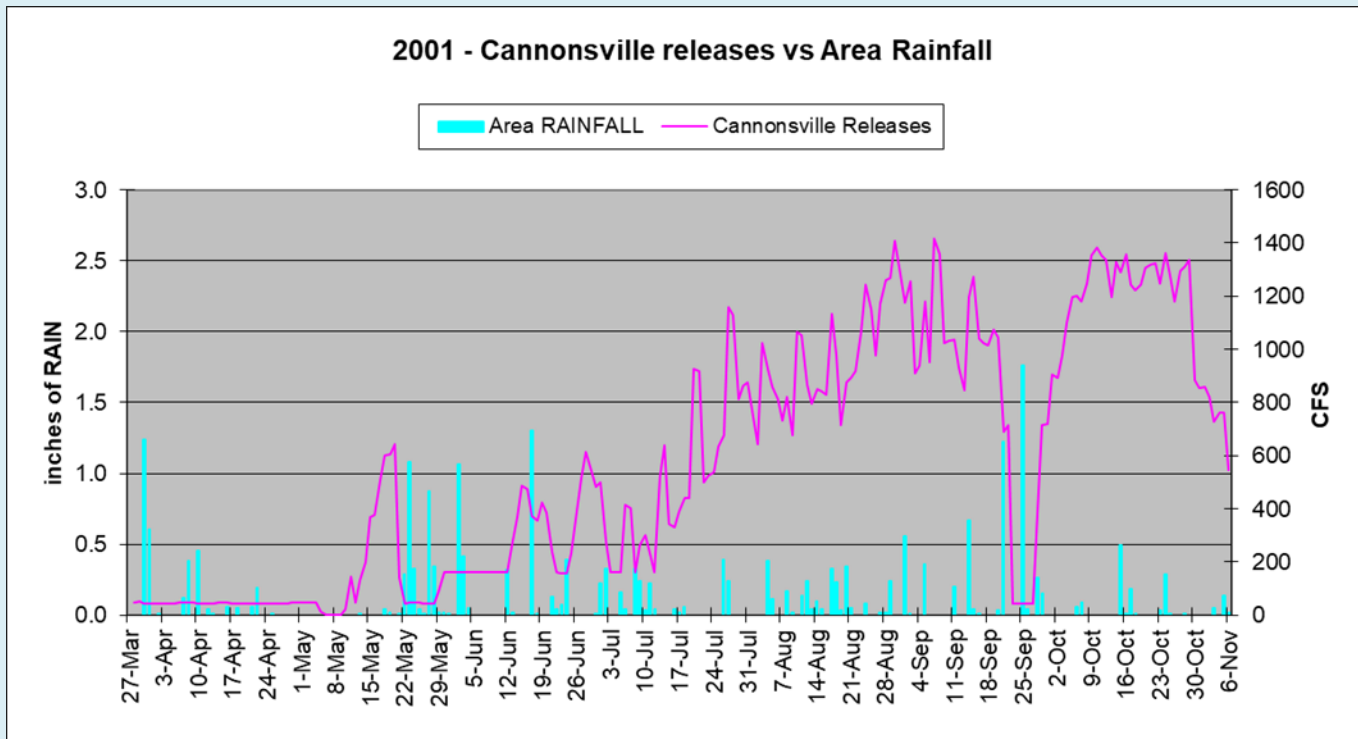


It takes 48hrs for releases from Cannonsville to reach Montague NJ. In dry conditions, to balance the flow at Montague, the RiverMaster typically calls for Cannonsville releases to be reduced 48hrs before an impending storm hits. This practice can expose the upper river to a sudden reduction in flow for 48hrs before the rain arrives.

Montague target: 1,750cfs

Dewatering Events

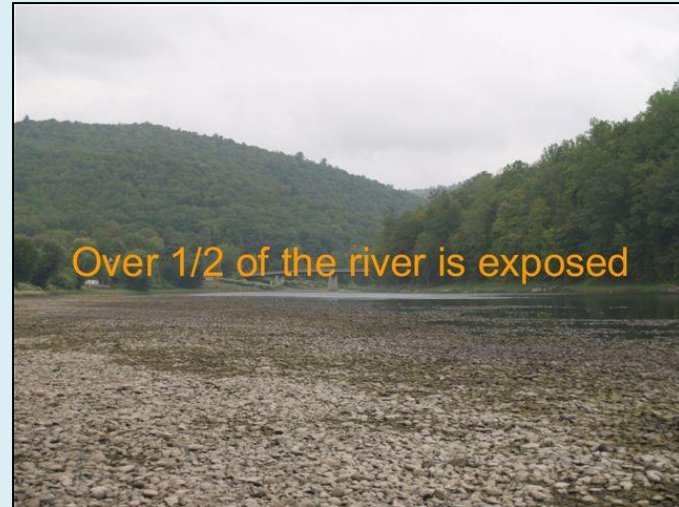
Rivermaster induced rapid flow reductions in anticipation of storms (usually in Sept & Oct)



Dewatering Events



September 4, 2008



September 5, 2008

Photos
by
Lee Hartman



September 28, 2015



September 29, 2015

Photos
by
Dee Pinto

Dewatering Events

How often do they occur?
How severe are the results?

LORDVILLE FLOWS 2007 to DATE							USGS gage 01427207 - 9 miles below Hancock						<900	<700	<560				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
1-Jan								2,650	4,560	5,710	2,630	1,330	4,660	1,820	2,420	2,060	4,260	1,380	861
2-Jan								3,440	4,470	4,970	2,500	1,570	4,570	1,660	2,050	1,970	3,660	1,280	877
3-Jan								3,060	3,910	4,580	2,180	1,620	4,270	1,650	1,860	1,840	3,060	1,270	893
4-Jan								2,880	3,880	4,030	2,220	1,420	3,720	1,600	1,780	2,290	2,180	2,880	930
5-Jan								2,920	3,880	3,940	2,260	1,440	3,410	1,520	1,910	3,270	1,760	3,030	954
6-Jan								7,300	3,850	3,700	2,230	1,170	3,080	1,450	3,960	2,610	1,680	2,420	973
7-Jan								7,590	3,940	3,770	2,120	1,040	2,950	1,410	3,530	1,850	1,630	2,020	980
8-Jan								9,240	5,110	3,790	2,200	933	2,860	1,270	3,310	1,610	1,830	1,560	995
9-Jan								9,000	9,020	3,510	2,350	955	2,560	1,230	3,110	1,420	2,220	1,200	1,010
10-Jan								6,760	10,200	3,180	2,620	944	2,170	1,240	3,160	1,250	5,100	1,230	1,010
11-Jan								5,380	11,700	3,300	2,950	937	2,070	1,260	4,700	1,160	6,080	1,620	1,010
12-Jan								4,720	11,800	3,240	2,880	890	2,410	1,390	11,500	1,120	3,620	2,640	1,600
13-Jan								4,640	8,500	3,150	2,850	845	3,120	1,840	7,240	1,110	2,920	7,130	11,000
14-Jan								4,870	7,280	3,110	2,580	832	2,770	3,120	6,780	1,170	2,460	5,010	5,860
15-Jan								6,690	6,470	3,150	2,340	984	2,260	4,120	7,220	1,250	2,270	3,680	3,710
16-Jan								9,940	5,680	3,400	2,330	982	1,750	3,540	6,090	1,140	2,430	2,840	3,290
17-Jan								8,380	4,960	2,990	2,290	963	2,120	3,060	5,300	1,490	2,520	2,480	2,690
18-Jan								7,420	4,620	3,010	2,680	1,020	2,240	2,610	4,750	1,620	2,100	2,750	1,980
19-Jan								6,980	4,140	3,130	2,300	1,320	2,090	2,190	4,400	1,500	1,630	2,730	1,790
20-Jan								6,140	3,710	3,000	1,920	1,240	1,870	1,900	4,110	1,320	1,520	2,510	1,890
21-Jan								5,060	3,360	2,910	1,740	1,070	1,730	1,680	3,660	1,120	1,460	2,330	1,790
22-Jan								4,510	3,340	2,890	1,640	1,010	1,580	1,420	3,260	997	1,410	2,460	1,650
23-Jan								4,010	3,320	2,870	2,090	976	1,850	1,270	2,990	886	1,370	2,850	5,170
24-Jan								3,590	3,230	2,830	2,780	978	2,720	1,250	3,150	793	1,350	5,160	8,030
25-Jan								3,260	3,140	2,740	11,200	946	2,710	1,260	3,250	691	1,300	4,380	4,480
26-Jan								2,770	3,020	2,720	18,700	928	2,420	1,250	3,260	615	1,270	3,610	3,410
27-Jan								2,860	3,020	2,700	8,760	906	5,080	1,210	3,240	596	1,260	3,360	2,900
28-Jan								2,880	3,010	2,810	6,570	901	7,120	1,250	3,380	615	1,210	2,840	2,550
29-Jan								2,730	2,980	2,840	5,010	879	5,430	1,330	3,590	604	1,150	2,450	2,310
30-Jan								2,570	3,240	2,800	4,360	865	4,560	2,050	3,480	609	1,100	2,130	2,040
31-Jan								2,570	3,180	2,760	4,100	850	4,800	8,450	2,960	591	1,070	1,790	1,760
1-Feb								2,490	3,170	2,730	3,760	845	4,750	5,920	2,290	582	1,070	1,660	1,460
2-Feb								2,510	4,160	2,730	3,120	885	4,720	3,850	1,820	567	1,070	1,470	1,280
3-Feb								2,460	3,770	2,720	2,640	875	4,340	3,120	1,700	574	1,260	1,320	1,020
4-Feb								2,280	3,570	2,670	2,370	927	4,130	2,670	1,570	608	2,400	1,100	1,190
5-Feb								2,180	3,740	2,550	2,210	960	3,960	2,460	1,240	608	1,930	1,100	1,280
6-Feb								1,960	8,890	1,700	2,100	1,050	3,800	2,270	1,090	620	1,650	1,180	1,260
7-Feb								2,370	13,700	900	1,980	1,060	3,010	2,110	970	613	1,550	1,280	1,170

LORDVILLE FLOWS 2007 to DATE							USGS gage 01427207 - 9 miles below Hancock						<900	<700	<560				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
8-Feb								2,430	9,890	800	1,940	974	2,810	2,010	910	584	1,500	1,450	1,110
9-Feb								1,900	8,000	850	1,920	888	2,270	1,860	880	559	1,480	1,760	1,140
10-Feb								1,430	6,970	850	1,880	873	2,110	1,770	880	563	1,450	1,350	1,280
11-Feb								1,040	5,530	1,130	1,870	869	2,070	1,950	900	560	1,340	1,230	1,880
12-Feb								904	4,780	2,770	1,800	888	1,940	2,010	930	583	836	1,120	3,110
13-Feb								848	5,440	4,930	1,750	908	1,910	1,970	980	595	600	1,090	3,140
14-Feb								717	8,430	2,810	1,740	991	1,880	1,900	1,040	588	643	1,140	2,510
15-Feb								957	7,280	2,090	1,740	1,100	1,700	1,850	1,180	568	1,190	1,130	2,300
16-Feb								1,340	6,440	1,750	1,750	987	1,610	1,840	1,310	552	3,760	1,090	4,180
17-Feb								2,080	5,600	1,500	1,710	1,070	1,640	1,550	1,510	530	7,560	1,030	4,690
18-Feb								2,040	10,200	1,400	1,570	1,260	1,640	950	1,820	518	4,200	1,060	3,720
19-Feb								1,830	15,200	1,500	1,340	2,560	1,560	983	1,940	513	3,100	1,270	3,060
20-Feb								1,770	11,900	1,420	1,180	2,430	1,500	988	1,960	505	2,830	1,900	4,660
21-Feb								1,780	9,160	1,250	1,150	2,220	1,430	955	2,010	510	2,620	1,920	7,280
22-Feb								1,760	7,730	1,210	1,130	2,020	1,220	969	2,000	519	2,280	1,840	7,440
23-Feb								1,740	6,760	1,080	1,150	1,830	1,150	973	1,870	518	2,010	2,500	5,700
24-Feb								1,710	5,470	987	1,170	1,770	1,220	955	1,690	511	2,230	4,690	6,070
25-Feb								1,700	4,830	898	1,420	1,910	1,230	932	1,490	517	15,100	9,920	10,200
26-Feb								1,680	4,390	976	1,810	2,670	1,120	932	1,340	521	9,540	17,700	10,100
27-Feb								1,420	4,200	966	2,560	2,260	1,070	1,110	1,290	526	6,710	7,760	7,730
28-Feb								1,140	3,760	2,730	2,780	2,670	1,120	1,580	1,390	539	5,720	5,110	6,390
1-Mar								1,040	3,650	2,200	2,700	3,490	1,180	1,520	1,510	541	4,800	4,210	5,680
2-Mar								1,210	3,520	1,720	2,680	2,730	1,200	1,310	1,520	549	4,470	3,790	6,690
3-Mar								2,230	3,450	1,520	2,730	2,420	1,390	1,200	1,530	539	4,140	3,160	5,960
4-Mar								1,910	3,770	1,450	2,720	3,250	1,900	1,140	1,550	530	3,940	2,620	5,220
5-Mar								1,610	20,600	1,380	2,700	3,540	1,620	1,100	1,570	528	3,760	2,100	4,780
6-Mar								1,350	24,900	1,360	2,690	10,300	1,380	1,090	1,590	513	3,560	2,010	4,490
7-Mar								1,860	16,900	1,960	2,730	21,300	1,420	1,060	1,530	509	3,360	2,180	4,470
8-Mar								1,950	23,300	4,880	2,900	10,000	1,710	1,090	1,560	502	3,130	2,540	4,250
9-Mar								1,860	36,600	16,600	3,200	7,490	4,310	1,070	1,580	502	2,870	2,510	4,020
10-Mar								1,760	22,900	13,100	3,580	6,270	3,800	1,160	1,540	513	2,600	2,140	3,830
11-Mar								1,680	15,100	12,300	4,050	29,000	3,030	1,330	1,340	529	3,090	1,840	3,660
12-Mar								1,450	11,200	10,700	6,600	20,600	2,690	4,710	1,630	595	2,800	1,430	3,520
13-Mar								1,630	8,890	8,240	8,670	16,700	2,650	12,200	2,200	752	2,490	1,250	2,630
14-Mar								2,630	7,450	6,790	12,500	13,400	2,930	6,160	1,770	1,010	2,460	1,080	1,900
15-Mar								11,700	7,490	5,860	10,800	10,800	2,650	4,170	1,640	1,280	2,410	836	1,790
16-Mar								10,200	7,060	5,370	8,620	10,500	2,420	3,410	1,540	1,450	2,360	1,290	1,710
17-Mar								6,400	6,070	4,960	7,150	10,600	2,330	2,970	1,310	1,650	2,410	1,520	1,590

CALLICOON FLOWS 2000 to DATE						USGS gage 01427510 - 27 miles below Hancock						<930	<700	<560					
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
8-Feb	1,100	1,500	1,710	1,700	747	2,060	8,690	2,600	11,700	1,240	2,360	1,040	3,030	2,380	1,050	753	1,710	1,700	1,050
9-Feb	1,000	1,400	1,570	1,600	760	2,180	7,510	2,260	9,160	1,260	2,320	955	2,580	2,130	1,070	741	1,670	2,270	1,100
10-Feb	1,000	1,500	1,490	1,600	750	3,740	6,690	1,740	7,900	1,260	2,260	937	2,290	1,940	1,150	718	1,730	1,790	1,230
11-Feb	980	1,600	6,140	1,700	760	3,400	5,820	1,340	6,040	1,330	2,220	922	2,230	2,260	1,110	715	1,360	1,590	1,610
12-Feb	960	1,500	5,490	1,700	750	2,800	5,190	1,050	5,260	2,910	2,190	946	2,100	2,240	1,040	713	1,050	1,500	2,760
13-Feb	1,100	1,400	4,080	1,600	740	2,200	4,490	979	6,200	5,980	2,170	955	2,060	2,180	1,060	700	741	1,480	3,080
14-Feb	1,200	1,600	2,900	1,400	750	2,000	4,130	920	9,880	3,860	2,150	1,050	2,000	2,140	1,310	698	663	1,470	2,360
15-Feb	2,200	1,700	2,600	1,200	750	3,620	3,760	1,300	8,290	2,760	2,120	1,150	1,850	2,070	1,550	694	928	1,430	2,300
16-Feb	2,600	1,700	2,290	1,100	740	5,310	3,570	1,800	7,200	2,210	2,140	1,050	1,710	2,050	1,780	685	3,170	1,370	5,200
17-Feb	3,300	1,600	2,100	1,100	740	6,050	3,640	2,420	6,270	1,980	2,100	1,150	1,750	1,890	1,990	679	8,760	1,300	6,530
18-Feb	2,800	1,500	1,830	1,200	750	4,700	3,700	2,300	11,100	1,840	2,010	1,400	1,780	1,340	2,240	681	4,920	1,250	4,570
19-Feb	2,600	1,400	1,600	1,200	760	4,400	2,650	2,050	16,600	1,840	1,780	2,760	1,680	1,220	2,330	674	3,700	1,570	3,710
20-Feb	2,200	1,500	1,480	1,300	750	4,000	2,200	1,940	12,900	1,710	1,560	2,650	1,610	1,460	2,340	683	3,280	2,410	6,160
21-Feb	2,100	1,400	1,680	1,300	740	3,730	2,200	1,970	9,990	1,510	1,500	2,430	1,520	1,200	2,440	699	3,080	2,520	9,650
22-Feb	1,900	1,300	2,070	1,500	740	3,260	2,200	1,930	8,420	1,460	1,460	2,270	1,400	1,180	2,510	699	2,780	2,390	10,200
23-Feb	2,000	1,300	1,890	1,700	730	2,880	2,290	1,900	7,410	1,310	1,480	2,070	1,290	1,280	2,660	699	2,410	3,150	7,750
24-Feb	2,100	1,400	1,640	2,100	720	2,300	2,310	1,860	6,230	1,180	1,560	2,030	1,370	1,220	2,210	699	2,750	5,660	8,050
25-Feb	4,000	1,400	1,500	2,700	710	2,300	2,120	1,850	5,470	1,070	1,700	2,190	1,420	1,160	1,860	711	17,400	11,600	14,400
26-Feb	6,600	1,500	1,430	2,800	700	2,200	2,030	1,870	5,070	1,120	2,070	3,010	1,290	1,110	1,530	702	11,400	24,100	14,200
27-Feb	9,030	1,400	1,460	2,600	710	2,200	1,890	1,570	4,880	1,540	2,740	2,590	1,210	1,280	1,430	732	7,830	10,800	10,300
28-Feb	20,100	1,300	1,440	2,300	730	2,100	1,740	1,280	4,260	3,320	3,050	3,130	1,260	1,900	1,310	755	6,710	6,350	8,000
1-Mar	8,390	1,200	1,280	2,100	780	2,150	1,440	1,230	4,120	3,410	2,990	3,990	1,380	1,920	1,610	735	5,590	4,820	6,890
2-Mar	7,780	1,300	1,170	2,100	860	2,090	1,310	1,370	3,960	2,470	2,960	3,100	1,400	1,580	2,290	728	5,150	4,240	8,790
3-Mar	6,950	1,300	1,400	2,000	1,700	1,900	1,190	2,530	3,860	1,870	3,030	2,740	1,840	1,400	1,920	718	4,500	3,430	7,740
4-Mar	6,040	1,100	1,910	1,900	3,000	1,850	1,210	2,180	4,200	1,810	3,060	3,620	2,460	1,300	1,730	728	4,230	2,810	6,440
5-Mar	5,480	1,100	1,600	1,800	4,700	1,780	1,290	1,840	24,000	1,780	3,030	5,710	2,060	1,260	1,630	728	3,980	2,210	5,760
6-Mar	4,930	1,200	1,450	1,800	8,700	1,750	1,380	1,640	28,400	1,780	3,010	14,100	1,690	1,210	1,630	718	3,770	2,080	5,310
7-Mar	4,550	1,300	1,400	1,700	14,100	1,760	1,350	2,170	19,100	2,650	3,080	29,000	1,670	1,190	1,600	722	3,620	2,250	5,310
8-Mar	5,350	1,200	1,320	1,700	10,300	2,420	1,240	2,200	26,600	5,850	3,370	12,700	2,070	1,220	1,640	738	3,450	2,610	5,030
9-Mar	7,040	1,100	1,250	1,600	8,410	2,200	1,200	2,210	39,700	19,900	3,860	8,840	4,750	1,210	1,620	732	3,170	2,700	4,680
10-Mar	10,100	1,000	1,400	1,600	6,830	2,000	1,260	2,140	24,900	16,700	4,340	8,190	4,600	1,320	1,650	715	2,940	2,280	4,430
11-Mar	9,760	1,080	1,680	1,500	5,820	1,900	1,410	2,100	16,600	15,300	5,130	38,200	3,640	1,540	1,750	725	3,420	2,020	4,180
12-Mar	17,400	1,140	1,450	1,500	5,260	2,090	1,400	1,960	12,500	13,000	7,920	25,000	3,230	4,290	2,450	837	3,240	1,650	4,020
13-Mar	13,800	1,430	1,410	1,400	4,540	2,000	1,420	2,180	9,910	9,670	10,400	18,900	3,120	13,600	2,930	1,180	2,810	1,460	3,310
14-Mar	10,200	1,680	1,390	1,400	3,840	1,820	2,170	3,120	8,350	7,810	15,000	15,000	3,320	7,500	2,350	1,540	2,700	1,230	2,390
15-Mar	7,860	1,510	1,390	1,500	4,120	1,710	2,750	12,200	8,560	6,690	13,000	12,100	3,110	5,140	2,310	1,860	2,720	926	2,160
16-Mar	6,330	1,360	1,450	1,900	3,620	1,730	2,660	11,900	8,340	6,130	10,000	11,600	2,810	4,170	2,120	2,090	2,700	2,190	2,060
17-Mar	8,340	1,600	1,590	3,900	3,070	1,530	2,650	7,250	7,170	5,670	8,120	11,800	2,670	3,550	1,740	2,240	2,730	1,920	1,890

Main Stem FLOWS near BARRYVILLE										USGS gage 01428500 - 51 miles below Hancock										<930	<700	<560
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018			
8-Feb	1,200	1,600	2,050	2,200	1,000	2,380	9,050	2,190	14,800	1,400	2,400	1,200	3,410	2,650	1,150	867	1,920	1,780	1,310			
9-Feb	1,100	1,400	1,890	2,000	1,000	2,440	7,800	2,100	11,000	1,400	2,500	1,100	3,070	2,440	1,130	864	1,860	2,460	1,470			
10-Feb	1,000	1,600	1,740	1,900	1,000	3,510	6,950	1,950	9,270	1,400	2,600	1,100	2,590	2,070	1,110	854	1,850	1,700	1,570			
11-Feb	980	1,700	4,960	1,900	1,000	4,700	6,150	1,470	7,530	1,500	2,500	1,100	2,490	2,440	1,070	849	1,730	1,530	1,740			
12-Feb	1,000	1,600	6,690	2,000	1,000	3,800	5,500	1,320	6,270	2,600	2,400	1,100	2,390	2,470	1,050	844	1,280	1,500	2,950			
13-Feb	1,100	1,600	4,900	2,000	1,000	2,910	4,830	1,170	6,500	6,700	2,260	1,200	2,230	2,410	1,040	830	1,050	1,480	3,810			
14-Feb	1,300	1,700	3,580	2,000	1,000	2,520	4,430	1,200	11,000	4,200	2,230	1,200	2,200	2,320	1,530	817	1,010	1,480	3,150			
15-Feb	2,000	1,900	2,990	1,900	1,000	3,320	4,080	1,560	9,790	3,000	2,170	1,200	2,100	2,210	1,780	815	1,110	1,470	2,900			
16-Feb	2,800	1,900	2,740	1,900	1,000	6,020	3,870	1,800	8,390	2,400	2,160	1,200	2,020	2,240	1,950	809	2,170	1,450	5,530			
17-Feb	3,500	1,700	2,470	1,800	1,000	7,200	3,870	2,700	7,260	2,000	2,190	1,300	2,030	2,080	2,220	794	10,100	1,420	7,730			
18-Feb	3,000	1,600	2,220	1,700	1,000	6,340	4,000	2,550	9,500	2,100	2,070	1,800	2,100	1,700	2,520	801	6,580	1,430	5,880			
19-Feb	2,700	1,500	1,920	1,700	1,060	5,000	3,120	2,430	16,000	2,000	1,860	2,900	2,010	1,230	2,600	801	4,440	1,740	4,810			
20-Feb	2,300	1,700	1,740	1,800	1,030	4,900	2,400	2,280	14,700	1,900	1,630	2,800	1,920	1,500	2,600	801	4,070	2,750	6,760			
21-Feb	2,200	1,700	1,790	1,800	980	4,470	2,400	2,280	11,300	1,700	1,510	2,600	1,810	1,310	2,610	813	4,000	3,210	10,300			
22-Feb	2,000	1,600	2,280	1,900	1,000	3,980	2,400	2,250	9,520	1,600	1,470	2,500	1,750	1,170	2,740	803	3,800	2,900	11,200			
23-Feb	2,100	1,400	2,270	2,100	1,180	3,620	2,400	2,190	8,390	1,500	1,480	2,200	1,590	1,430	3,100	798	2,900	3,590	9,160			
24-Feb	2,200	1,500	1,960	2,600	1,180	3,020	2,500	2,190	7,170	1,300	1,580	2,200	1,670	1,370	3,000	798	2,760	6,150	8,980			
25-Feb	4,400	1,500	1,760	3,400	1,220	2,690	2,400	2,190	6,280	1,200	1,650	2,800	1,780	1,320	2,640	782	19,700	9,630	15,100			
26-Feb	6,200	1,600	1,660	3,400	1,110	2,520	2,300	2,100	5,780	1,200	2,000	3,200	1,680	1,240	2,360	801	15,200	25,700	16,100			
27-Feb	9,550	1,600	1,650	3,200	1,010	2,440	2,000	1,920	5,560	1,700	2,580	2,800	1,530	1,310	2,090	822	9,520	12,500	11,200			
28-Feb	23,700	1,500	1,670	2,800	1,020	2,300	1,900	1,710	5,030	3,000	3,150	3,300	1,570	2,020	1,890	859	7,680	7,920	8,870			
1-Mar	10,800	1,300	1,530	2,500	1,100	2,170	1,800	1,750	4,570	3,700	3,120	4,200	1,730	2,260	1,920	840	6,190	6,150	7,700			
2-Mar	9,480	1,400	1,380	2,400	1,280	2,260	1,500	1,730	4,490	2,600	3,070	3,400	1,820	1,880	2,260	826	5,700	5,470	9,480			
3-Mar	8,580	1,400	1,480	2,400	2,660	2,170	1,300	2,880	4,290	2,100	3,160	3,000	2,190	1,630	2,190	817	5,210	4,640	8,960			
4-Mar	7,480	1,300	2,070	2,400	5,070	1,980	1,300	2,790	4,540	2,000	3,240	4,090	3,330	1,490	1,880	806	4,840	3,850	7,420			
5-Mar	6,840	1,200	2,020	2,300	6,560	2,050	1,400	2,190	23,600	2,000	3,210	4,660	2,780	1,400	1,790	795	4,580	2,750	6,620			
6-Mar	6,270	1,300	1,680	2,300	10,400	2,060	1,500	2,070	34,600	2,000	3,170	12,700	2,250	1,380	1,780	798	4,310	2,500	6,100			
7-Mar	5,810	1,300	1,630	2,200	16,500	2,150	1,500	1,740	21,900	2,980	3,240	37,800	2,080	1,350	1,730	793	4,050	2,810	6,100			
8-Mar	6,300	1,300	1,550	2,200	12,600	2,810	1,400	1,800	27,500	5,940	3,610	17,000	2,350	1,390	1,770	809	3,840	3,320	5,820			
9-Mar	7,840	1,200	1,470	2,100	9,730	2,710	1,450	2,430	43,700	21,100	4,300	11,100	4,700	1,390	1,750	787	3,530	3,630	5,400			
10-Mar	10,700	1,200	1,560	2,100	7,970	2,070	1,510	2,400	28,700	20,700	5,040	9,800	5,780	1,470	1,800	771	3,230	3,070	5,080			
11-Mar	10,900	1,100	1,890	2,000	6,810	2,100	1,630	2,250	19,000	16,200	5,770	43,300	4,430	1,650	1,920	946	3,610	2,650	4,780			
12-Mar	19,200	1,100	1,760	1,910	6,150	2,400	1,660	2,310	14,200	14,500	8,880	32,100	3,820	3,360	2,460	1,250	3,880	2,040	4,590			
13-Mar	16,800	1,200	1,660	1,910	5,390	2,300	1,680	2,640	11,300	10,900	11,400	22,000	3,580	15,100	3,780	1,630	3,160	1,480	4,170			
14-Mar	12,100	1,500	1,630	1,860	4,570	2,240	2,400	3,690	9,600	8,950	16,400	17,400	3,710	8,910	3,130	1,990	3,020	1,130	3,060			
15-Mar	9,400	1,700	1,630	1,840	4,530	2,050	3,160	11,800	9,630	7,730	15,100	13,800	3,640	6,000	2,770	2,310	3,010	1,020	2,570			
16-Mar	7,720	1,600	1,640	2,270	4,400	2,040	2,940	16,700	9,890	7,080	11,600	12,900	3,240	4,760	2,520	2,590	2,900	1,330	2,450			
17-Mar	9,590	1,700	1,850	4,090	3,720	1,900	2,900	9,340	8,640	6,530	9,430	13,200	3,060	4,060	2,380	2,710	2,950	1,780	2,230			

LORDVILLE FLOWS 2007 to DATE							USGS gage 01427207 - 9 miles below Hancock						<900	<700	<560				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
18-Mar								5,120	5,420	4,850	6,240	12,300	2,150	2,780	1,250	1,710	2,310	1,480	1,550
19-Mar								4,120	6,320	5,440	5,610	15,100	2,000	2,700	1,230	1,700	2,220	1,410	1,520
20-Mar								4,010	19,300	5,180	5,210	12,200	2,330	2,520	1,350	1,580	2,110	1,400	1,440
21-Mar								3,690	14,600	4,390	4,880	10,600	2,200	2,280	1,620	1,520	2,040	1,460	1,500
22-Mar								3,830	11,200	3,620	4,720	9,700	1,900	2,180	1,570	1,430	1,980	2,480	1,460
23-Mar								6,940	9,010	3,110	16,800	8,570	1,740	2,060	1,700	1,330	1,950	2,740	1,450
24-Mar								7,310	7,770	2,350	16,800	7,290	1,600	1,970	1,480	1,240	1,820	2,830	1,610
25-Mar								12,100	6,470	1,920	13,800	6,070	1,490	1,960	1,310	1,140	1,660	2,950	1,700
26-Mar								12,200	5,650	1,820	11,900	5,120	1,400	1,940	1,270	1,050	1,620	3,460	1,710
27-Mar								16,600	5,260	2,200	9,810	4,510	1,280	1,940	1,110	1,180	1,550	4,430	1,810
28-Mar								20,200	7,040	2,620	8,050	4,160	1,240	1,960	1,450	1,220	1,640	6,470	2,600
29-Mar								17,500	7,150	2,890	9,800	3,960	1,240	1,920	2,260	1,220	1,740	10,900	3,180
30-Mar								13,700	6,000	3,920	10,600	3,830	1,160	1,810	1,810	1,240	1,410	10,500	5,840
31-Mar								11,400	6,550	3,270	17,600	3,900	1,290	1,740	8,950	1,280	1,180	9,830	6,430
1-Apr								9,850	9,830	2,510	14,700	3,990	1,350	2,050	6,220	1,440	1,130	10,200	5,260
2-Apr								8,500	13,500	2,280	11,800	4,120	1,600	2,320	5,710	1,710	1,150	8,460	4,620
3-Apr								7,200	11,100	2,810	9,810	4,110	1,420	1,950	5,640	4,790	1,180	7,720	4,570
4-Apr								6,580	10,500	5,360	8,340	4,510	1,270	1,720	5,290	11,100	1,210	10,600	6,260
5-Apr								6,770	12,900	5,110	7,100	7,020	1,180	1,660	5,250	8,470	1,160	10,900	6,890
6-Apr								5,900	11,500	4,640	5,930	8,080	1,120	1,620	4,440	5,550	1,130	11,200	6,150
7-Apr								5,130	10,100	4,560	5,080	6,970	1,060	1,560	3,960	6,960	2,220	19,300	6,060
8-Apr								4,510	8,820	4,080	4,420	6,350	1,020	1,540	5,420	11,000	6,990	15,400	5,440
9-Apr								4,010	7,820	3,700	4,340	5,840	985	1,640	5,940	10,500	4,830	12,600	4,750
10-Apr								3,650	7,000	2,980	3,990	5,750	970	2,280	5,020	13,300	3,590	10,100	4,290
11-Apr								3,370	6,370	2,430	3,560	5,510	959	3,810	4,760	11,800	3,060	8,970	3,810
12-Apr								3,540	6,370	1,930	2,930	6,090	961	3,730	5,230	7,470	3,510	7,590	3,470
13-Apr								4,040	5,970	2,080	2,480	6,060	914	4,160	4,730	6,210	3,340	6,190	3,480
14-Apr								3,750	5,320	2,400	2,190	5,840	881	3,270	4,520	6,270	2,890	5,210	3,840
15-Apr								4,920	4,600	2,680	1,920	5,140	862	2,760	9,110	5,110	2,630	4,500	4,460
16-Apr								21,600	4,030	2,710	1,800	4,930	846	2,480	13,900	3,930	2,400	4,050	4,970
17-Apr								21,200	3,400	2,570	2,160	10,500	805	2,800	11,000	3,410	2,210	3,260	9,340
18-Apr								18,700	2,510	2,050	1,770	9,740	730	2,360	10,000	3,100	2,050	3,360	8,240
19-Apr								17,600	1,900	1,460	1,490	8,550	698	2,270	8,530	2,570	1,920	3,200	7,010
20-Apr								17,200	1,660	1,140	1,300	8,830	739	4,570	7,130	2,280	1,800	3,470	6,280
21-Apr								15,100	1,570	1,380	1,260	7,750	848	3,900	6,010	4,580	1,700	7,070	6,040
22-Apr								12,300	1,870	1,520	1,210	6,770	864	3,150	5,120	4,450	1,630	7,130	5,520
23-Apr								10,400	2,370	1,420	1,130	7,900	3,280	2,920	4,590	3,840	1,570	6,020	4,730
24-Apr								8,840	2,220	1,310	1,080	8,820	3,590	2,670	4,130	3,230	1,490	5,270	4,200

LORDVILLE FLOWS 2007 to DATE							USGS gage 01427207 - 9 miles below Hancock					<900	<700	<560					
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
25-Apr								7,760	1,790	1,230	1,220	8,430	2,880	2,360	3,740	2,720	1,420	4,770	4,740
26-Apr								7,400	1,330	1,170	1,580	11,100	2,360	2,250	3,390	2,350	1,480	4,610	6,290
27-Apr								6,120	1,230	1,120	2,660	15,300	2,110	2,050	2,930	2,120	1,610	4,360	5,950
28-Apr								5,440	1,230	1,060	2,290	20,800	1,840	1,880	2,600	1,960	1,440	3,860	6,290
29-Apr								4,950	1,430	981	2,120	20,200	1,600	1,810	2,480	1,770	1,370	3,400	5,950
30-Apr								4,400	1,260	920	2,010	15,000	1,430	1,830	2,640	1,630	1,530	2,960	5,720
1-May								3,870	1,070	927	1,900	11,200	1,400	1,710	4,440	1,520	1,660	2,450	5,570
2-May								3,640	1,190	1,070	1,800	8,840	1,500	1,560	4,100	1,380	2,110	12,000	5,140
3-May								3,070	1,240	1,050	1,690	7,260	1,720	1,290	3,410	1,250	2,810	11,500	4,600
4-May								2,360	1,610	995	1,700	10,400	2,930	1,220	3,040	1,160	2,890	8,820	4,470
5-May								1,900	1,580	991	1,540	11,400	2,780	1,170	2,830	1,090	2,750	8,070	4,270
6-May								1,510	1,420	1,040	1,360	9,480	2,280	1,110	2,500	1,040	2,860	9,300	4,080
7-May								1,310	1,330	1,160	1,230	7,830	1,990	1,010	2,290	1,010	3,750	9,090	4,550
8-May								1,170	1,330	1,270	1,460	6,580	2,580	1,050	2,220	948	3,230	7,730	4,050
9-May								1,080	1,380	1,520	1,650	5,450	6,010	1,930	2,560	897	2,810	6,410	3,490
10-May								1,130	1,520	1,710	1,390	4,540	4,390	1,590	2,850	854	2,430	5,420	3,250
11-May								1,980	1,370	1,400	1,270	3,830	3,430	1,780	3,070	805	2,180	4,610	3,640
12-May								1,850	1,260	1,250	1,640	3,270	2,730	2,910	2,670	796	2,050	3,980	3,400
13-May								1,490	1,190	1,160	1,770	2,720	2,300	2,290	2,390	776	2,250	3,900	3,350
14-May								1,320	1,110	1,210	1,610	2,280	2,170	1,970	2,210	747	2,880	4,960	3,200
15-May								1,210	1,080	1,880	1,560	2,140	10,500	1,770	2,020	718	2,800	4,700	3,280
16-May								1,240	1,160	1,690	1,420	2,950	13,200	1,630	7,500	867	2,580	4,300	4,540
17-May								1,450	1,670	8,470	1,320	2,760	6,540	1,450	20,100	1,420	2,420	3,990	3,830
18-May								1,220	1,580	6,110	1,250	3,290	4,520	1,330	12,900	1,180	2,310	3,590	3,420
19-May								1,140	1,450	4,090	1,340	7,670	3,530	1,250	9,220	1,170	2,070	3,020	4,100
20-May								1,200	1,340	3,290	1,250	11,500	3,020	1,230	7,200	1,120	1,830	2,520	6,080
21-May								1,160	1,270	3,150	1,120	12,500	2,760	1,170	5,590	958	1,630	2,210	5,060
22-May								1,060	1,340	2,910	1,080	9,440	2,870	1,220	4,510	951	1,480	1,960	5,430
23-May								996	1,330	2,340	1,030	7,690	3,200	1,950	4,080	885	1,360	1,800	6,290
24-May								947	1,230	3,070	978	7,230	3,050	2,080	3,500	811	1,250	1,650	4,940
25-May								964	1,130	2,550	912	6,120	2,790	2,460	3,100	781	1,160	1,500	4,050
26-May								966	1,060	2,060	867	4,970	2,480	2,680	2,680	770	1,100	1,510	3,440
27-May								899	1,020	3,090	835	5,050	2,130	2,350	2,270	787	1,060	1,490	2,950
28-May								936	957	3,350	844	4,620	1,860	2,360	1,960	1,330	1,180	1,310	2,590
29-May								893	901	7,280	873	3,920	1,690	3,120	1,660	1,160	1,160	1,350	2,180
30-May								841	856	9,010	792	5,920	2,380	4,890	1,420	909	1,110	1,670	1,930
31-May								797	862	6,580	740	5,440	2,040	7,450	1,240	877	1,080	2,090	1,710
1-Jun								871	937	5,310	775	4,220	1,730	7,080	1,170	1,020	1,030	2,410	1,870

LORDVILLE FLOWS 2007 to DATE							USGS gage 01427207 - 9 miles below Hancock						<900	<700	<560				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
2-Jun								947	936	4,640	876	3,560	2,090	5,250	1,180	1,350	1,090	2,110	2,270
3-Jun								1,130	878	4,020	839	2,910	2,090	4,140	1,190	1,170	1,080	1,840	1,850
4-Jun								1,010	889	3,500	783	2,410	2,040	3,690	1,890	1,000	1,110	1,730	1,740
5-Jun								1,010	882	2,860	767	2,050	2,280	3,100	1,630	941	1,360	2,140	1,660
6-Jun								897	845	2,390	963	1,880	1,910	2,740	1,530	1,020	2,760	11,200	1,550
7-Jun								796	840	2,100	1,030	1,730	1,800	2,660	1,290	935	1,830	11,300	1,440
8-Jun								970	869	1,800	870	1,610	1,700	2,890	1,150	908	1,660	8,410	1,360
9-Jun								1,080	947	2,070	868	1,580	1,600	2,580	1,180	1,730	1,500	6,900	1,290
10-Jun								948	1,010	2,170	1,280	1,700	1,570	2,170	1,260	2,020	1,340	5,520	1,230
11-Jun								895	1,160	1,870	1,100	1,610	1,480	4,010	1,210	1,500	1,240	4,810	1,190
12-Jun								885	803	2,250	1,120	3,370	1,470	5,260	1,220	1,260	1,200	3,790	1,130
13-Jun								897	771	2,190	3,360	2,680	2,540	6,470	3,100	1,320	1,160	3,190	1,130
14-Jun								840	959	2,680	2,270	2,080	2,070	16,400	7,090	1,290	1,120	2,190	1,180
15-Jun								1,020	1,050	2,710	1,630	1,990	1,700	13,500	3,930	3,720	1,090	1,400	1,130
16-Jun								1,100	827	3,100	1,410	1,750	1,550	10,600	2,780	3,700	1,060	1,290	1,010
17-Jun								948	920	3,330	1,420	1,790	1,460	8,780	2,250	2,970	1,030	1,400	971
18-Jun								844	878	5,450	1,320	2,110	1,400	7,190	2,320	2,350	1,000	1,400	1,150
19-Jun								975	816	8,090	1,200	1,830	1,360	5,910	2,210	2,180	990	2,280	1,030
20-Jun								3,830	841	7,720	1,130	1,620	1,330	4,510	1,880	1,940	957	3,560	948
21-Jun								1,660	948	15,000	1,060	1,500	1,530	3,760	1,690	3,380	970	2,240	916
22-Jun								1,090	850	13,400	1,020	1,680	1,240	2,860	1,500	4,950	940	1,760	887
23-Jun								1,000	756	10,800	1,040	2,160	1,180	2,150	1,430	3,520	914	1,560	928
24-Jun								899	852	8,450	1,010	4,410	1,130	1,960	1,360	3,110	930	1,510	987
25-Jun								898	767	7,090	966	5,920	1,130	1,650	1,890	2,540	963	1,410	1,200
26-Jun								1,060	712	6,360	919	3,740	1,120	1,560	11,500	2,200	927	1,300	1,030
27-Jun								1,230	733	5,850	895	2,820	1,070	1,490	6,860	2,040	898	1,240	960
28-Jun								1,340	755	5,130	884	2,370	1,030	11,700	4,570	2,950	1,130	1,240	1,860
29-Jun								1,120	666	4,490	877	5,770	1,020	5,610	3,240	3,290	1,920	1,310	2,040
30-Jun								1,070	747	4,100	835	4,120	1,150	3,710	2,590	3,480	1,250	1,370	1,380
1-Jul								1,140	727	4,120	708	3,060	1,180	2,960	2,300	8,480	1,070	1,480	1,420
2-Jul								1,120	660	3,800	853	2,550	1,080	4,140	2,050	8,520	1,030	1,710	1,350
3-Jul								915	634	3,840	998	4,550	1,020	4,440	3,110	7,180	982	1,370	1,400
4-Jul								758	853	3,080	778	9,380	1,030	3,520	6,570	6,420	943	1,230	1,260
5-Jul								1,050	1,070	2,670	651	6,520	1,000	3,090	4,230	5,520	927	1,300	1,090
6-Jul								1,080	826	2,440	765	5,460	1,050	2,650	2,910	4,400	906	1,180	1,070
7-Jul								956	630	1,700	837	4,540	1,120	2,280	2,290	3,880	915	1,160	1,070
8-Jul								977	647	1,920	835	3,670	1,140	2,160	2,370	3,590	930	1,150	969
9-Jul								986	582	1,580	1,120	3,180	1,120	2,030	2,990	3,080	1,740	1,160	914

LORDVILLE FLOWS 2007 to DATE							USGS gage 01427207 - 9 miles below Hancock						<900	<700	<560				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
10-Jul								1,010	586	1,400	994	2,690	1,080	1,690	2,650	3,080	2,970	1,210	884
11-Jul								1,050	810	1,320	866	2,420	1,020	1,600	2,390	2,510	1,880	978	864
12-Jul								976	1,240	1,730	725	2,290	939	1,490	2,220	2,230	1,410	926	838
13-Jul								998	1,050	1,570	675	2,010	909	1,460	2,200	2,110	1,240	965	816
14-Jul								1,020	1,950	1,330	692	1,900	938	1,420	8,010	2,010	1,190	1,660	803
15-Jul								958	1,200	1,230	709	1,820	1,020	1,370	5,130	2,660	1,250	2,540	944
16-Jul								824	908	1,220	737	1,560	1,470	1,310	6,520	2,800	1,200	1,740	1,030
17-Jul								776	810	1,280	886	1,370	1,100	1,410	4,460	2,680	1,300	1,410	901
18-Jul								812	1,020	1,570	867	1,340	942	1,540	3,350	2,680	1,290	1,470	776
19-Jul								795	1,300	1,500	861	1,330	888	1,430	2,820	2,860	1,180	1,440	739
20-Jul								720	1,110	1,270	818	1,290	964	1,180	2,530	2,960	1,110	1,340	712
21-Jul								845	1,050	1,180	884	1,250	942	1,160	2,330	2,730	1,040	1,300	698
22-Jul								918	987	1,130	1,040	1,220	883	1,160	2,200	2,670	997	1,230	715
23-Jul								693	2,800	1,090	947	1,520	857	1,450	2,140	2,530	967	1,060	1010
24-Jul								1,040	14,300	1,050	1,100	1,560	961	1,480	2,700	2,440	1,150	4,040	3,450
25-Jul								865	6,530	1,070	995	1,310	897	1,260	2,170	2,410	1,300	5,030	5,130
26-Jul								776	3,220	1,030	859	2,010	936	1,180	1,910	2,390	1,300	3,820	10,400
27-Jul								871	2,540	1,020	747	1,600	1,370	1,140	1,830	2,730	1,060	2,950	4,640
28-Jul								1,330	3,270	979	686	1,280	1,200	1,230	1,850	2,420	978	2,430	3,170
29-Jul								1,220	2,120	1,060	655	1,250	2,290	1,550	1,810	2,170	1,020	2,020	2,410
30-Jul								1,140	1,680	7,060	745	1,310	2,010	1,220	1,720	2,040	1,070	1,740	1,990
31-Jul								1,160	1,440	6,870	950	1,180	1,370	1,090	1,670	2,020	1,520	1,550	1,740
1-Aug								1,030	1,270	11,100	1,060	1,100	1,140	1,090	1,510	1,960	1,550	1,420	1,640
2-Aug								946	1,170	7,660	1,060	1,130	1,030	1,280	1,310	1,900	1,380	1,460	2,550
3-Aug								972	1,220	7,700	1,210	1,120	945	1,260	1,200	1,560	1,550	1,620	3,630
4-Aug								1,130	1,140	5,470	1,190	1,390	865	1,140	1,180	1,270	1,270	1,590	13,200
5-Aug								1,030	1,020	4,500	1,190	1,250	836	1,060	1,150	1,030	1,150	1,770	6,920
6-Aug								864	1,080	4,040	1,200	1,280	944	1,020	1,210	877	1,090	1,500	4,560
7-Aug								859	1,100	3,600	1,250	2,300	923	1,000	1,190	868	1,040	1,360	3,910
8-Aug								1,320	999	3,310	1,300	2,940	820	1,010	1,100	875	995	1,480	4,820
9-Aug								1,130	1,060	3,300	1,350	2,070	777	4,020	1,070	842	960	1,370	15,500
10-Aug								1,200	1,090	16,100	1,370	2,750	810	5,720	1,030	815	1,110	1,220	8,290
11-Aug								1,430	1,360	13,100	1,420	2,320	845	2,750	1,000	1,160	1,440	1,170	7,190
12-Aug								1,130	1,270	7,660	1,450	1,810	792	2,050	1,050	1,480	1,410	1,430	7,730
13-Aug								1,060	1,110	6,490	1,340	1,570	806	2,110	1,160	1,110	2,670	1,650	6,370
14-Aug								998	1,030	5,230	1,400	1,490	746	2,150	1,210	969	2,550	1,380	8,910
15-Aug								922	1,200	4,440	1,450	1,500	1,070	1,780	1,090	902	2,650	1,260	11,800
16-Aug								854	1,320	3,980	1,390	4,910	1,130	1,590	1,040	865	2,050	1,330	9,060

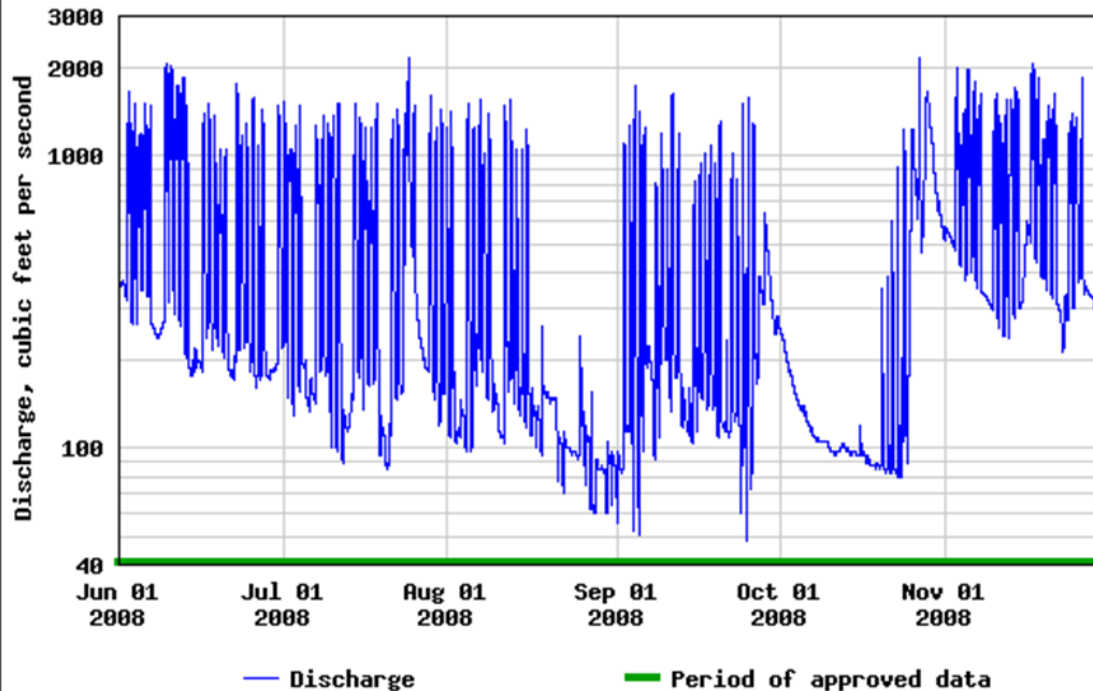
LORDVILLE FLOWS 2007 to DATE							USGS gage 01427207 - 9 miles below Hancock						<900	<700	<560				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
17-Aug								1,030	1,270	3,660	1,380	3,550	920	1,560	1,010	848	1,850	1,240	7,560
18-Aug								1,220	1,250	3,300	1,240	2,500	837	1,480	1,020	853	1,640	1,370	13,100
19-Aug								984	1,310	3,130	1,140	2,470	794	1,420	1,040	863	1,480	1,840	15,200
20-Aug								893	1,360	2,880	1,150	2,340	773	1,380	1,010	880	1,350	1,850	11,700
21-Aug								910	1,330	2,920	1,200	1,950	819	1,320	1,350	1,680	1,400	1,600	8,820
22-Aug								869	1,340	3,810	1,450	2,210	842	1,280	1,530	1,560	1,940	1,450	7,740
23-Aug								764	1,350	3,600	2,970	2,210	815	1,300	1,240	1,150	1,480	1,970	6,600
24-Aug								797	1,350	2,840	2,850	2,170	786	1,150	1,080	1,030	1,300	1,650	5,110
25-Aug								978	1,340	2,100	1,790	2,200	769	1,080	1,020	1,050	1,220	1,410	4,140
26-Aug								972	1,260	1,760	1,630	2,460	755	1,090	976	989	1,180	1,290	3,600
27-Aug								908	1,160	1,640	1,320	2,310	757	1,960	946	931	1,130	1,220	3,390
28-Aug								847	1,110	1,430	1,150	26,100	1,090	1,960	925	897	1,080	1,170	3,250
29-Aug								835	1,160	1,820	1,030	28,400	1,040	2,010	905	877	1,040	1,130	3,120
30-Aug								847	1,170	2,330	953	15,300	861	2,050	956	861	1,000	1,110	3,040
31-Aug								1,060	1,170	1,850	892	8,950	846	1,710	1,120	903	973	1,080	2,950
1-Sep								1,260	1,050	2,110	891	6,970	911	1,920	1,030	942	953	1,030	2,940
2-Sep								1,210	893	2,190	957	5,870	831	1,890	865	901	1,020	916	2,740
3-Sep								1,040	895	2,070	1,200	4,890	667	4,250	1,150	887	1,210	998	2,540
4-Sep								849	896	1,830	1,460	4,310	674	2,960	982	933	1,180	1,110	2,340
5-Sep								870	725	1,560	1,420	6,350	859	2,250	767	985	1,290	999	2,270
6-Sep								905	400	1,390	1,250	9,380	1,110	1,890	731	1,020	1,440	947	2,450
7-Sep								939	567	1,290	1,070	35,700	1,000	1,680	700	1,070	1,540	1,330	2,620
8-Sep								1,020	622	1,270	1,070	58,300	861	1,540	726	1,180	1,540	1,290	2,360
9-Sep								1,050	634	1,230	1,120	40,000	927	1,420	860	1,130	1,590	1,110	2,260
10-Sep								808	867	1,190	1,280	21,900	996	1,360	989	752	1,550	1,010	4,390
11-Sep								1,100	649	1,180	1,450	14,300	1,050	1,370	1,140	770	1,530	940	6,800
12-Sep								1,440	629	1,200	1,390	11,000	960	2,110	1,260	749	1,600	884	4,360
13-Sep								1,010	805	1,200	1,300	9,050	872	2,270	1,390	853	1,480	841	4,080
14-Sep								894	729	1,140	1,300	6,950	888	2,060	1,490	945	1,560	834	5,070
15-Sep								1,400	728	1,110	1,160	5,760	980	1,790	1,420	792	1,730	910	4,550
16-Sep								1,300	613	1,080	988	5,050	905	1,630	1,440	723	1,800	964	4,070
17-Sep								933	531	984	973	4,300	937	1,430	1,420	680	1,420	1,020	3,750
18-Sep								900	498	991	1,160	3,790	941	1,330	1,270	1,040	837	804	6,170
19-Sep								881	626	931	1,140	3,500	12,600	1,250	1,040	1,290	1,530	690	6,200
20-Sep								889	1,020	890	1,040	3,420	3,700	1,210	1,440	1,250	1,430	849	4,470
21-Sep								941	1,170	865	1,040	3,370	2,350	1,160	1,400	1,290	1,650	787	3,750
22-Sep								1,120	973	820	1,150	3,320	1,850	1,240	1,320	1,340	1,540	1,110	5,470
23-Sep								1,090	1,130	790	1,270	3,650	1,890	1,210	1,310	1,310	1,350	1,260	4,590

CALLICOON FLOWS 2000 to DATE								USGS gage 01427510 - 27 miles below Hancock					<930	<700	<560				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
17-Aug	1,140	1,090	1,380	3,200	9,230	1,280	998	1,040	1,510	4,000	1,590	4,560	1,000	1,650	1,110	910	2,000	1,350	8,050
18-Aug	1,030	1,310	1,310	3,000	6,790	1,270	1,040	1,470	1,510	3,670	1,430	3,070	885	1,560	1,090	904	1,820	1,360	14,200
19-Aug	950	1,100	1,280	2,450	5,480	1,310	1,180	1,220	1,510	3,460	1,250	2,780	818	1,510	1,110	922	1,680	2,070	17,200
20-Aug	883	922	1,280	1,950	4,430	1,310	2,450	1,020	1,620	3,250	1,230	2,910	803	1,460	1,110	914	1,540	2,030	13,300
21-Aug	815	1,070	1,310	1,640	4,610	1,350	2,350	1,100	1,560	3,800	1,260	2,270	834	1,390	1,320	1,920	1,540	1,820	9,640
22-Aug	797	1,040	1,260	1,410	5,010	1,470	1,290	1,060	1,560	5,170	1,870	2,340	841	1,350	1,870	1,900	2,090	1,570	8,380
23-Aug	893	1,060	1,190	1,260	4,360	1,520	1,130	938	1,560	5,460	4,300	2,400	822	1,330	1,440	1,260	1,670	1,980	7,030
24-Aug	1,050	1,210	1,250	1,070	3,650	1,450	1,050	855	1,570	3,900	4,290	2,300	795	1,220	1,190	1,100	1,440	1,850	5,210
25-Aug	1,180	1,310	1,320	1,030	3,530	1,200	1,280	1,110	1,570	2,880	2,580	2,310	772	1,090	1,110	1,070	1,340	1,530	4,100
26-Aug	1,020	1,200	688	1,000	3,160	1,310	1,520	1,130	1,520	2,400	2,230	2,640	758	1,100	1,070	991	1,340	1,370	3,450
27-Aug	930	1,110	866	970	2,780	1,560	1,530	1,070	1,380	2,190	1,710	2,500	757	1,940	1,030	909	1,270	1,260	3,180
28-Aug	778	1,280	876	1,070	2,450	1,580	2,250	972	1,310	1,960	1,400	27,500	921	2,210	998	866	1,220	1,200	3,010
29-Aug	740	1,360	979	1,090	2,400	1,480	3,620	951	1,350	2,420	1,210	34,200	1,130	2,390	955	849	1,190	1,160	2,850
30-Aug	719	1,370	838	1,240	2,300	1,700	9,750	938	1,390	3,000	1,080	17,500	888	2,410	950	860	1,110	1,130	2,760
31-Aug	713	1,460	1,030	1,190	3,670	1,430	4,800	1,040	1,370	2,470	989	10,100	816	2,020	1,140	880	1,080	1,100	2,660
1-Sep	804	1,490	1,140	1,060	3,310	1,200	3,200	1,450	1,340	2,440	919	7,610	875	2,050	1,210	942	1,100	1,040	2,660
2-Sep	1,100	1,390	818	11,700	2,420	1,230	2,760	1,380	1,050	2,610	976	6,360	907	2,350	944	906	1,000	930	2,470
3-Sep	1,230	1,350	822	11,500	2,000	1,170	2,650	1,320	1,060	2,490	1,070	5,310	660	4,330	1,200	877	1,260	980	2,280
4-Sep	972	1,070	871	26,300	1,700	1,360	2,510	966	1,060	2,290	1,500	4,670	660	3,480	1,110	874	1,220	1,150	2,050
5-Sep	835	1,200	983	18,200	1,420	1,370	2,260	964	1,040	2,010	1,460	6,690	938	2,520	891	940	1,270	1,060	1,980
6-Sep	734	1,270	981	12,200	1,320	1,110	2,060	1,010	611	1,780	1,370	10,600	1,070	2,040	835	936	1,480	1,020	2,000
7-Sep	651	1,120	1,270	8,990	1,230	1,150	1,870	1,040	696	1,650	1,080	42,000	1,080	1,790	770	1,010	1,570	1,410	2,470
8-Sep	622	1,530	1,200	6,890	1,260	1,160	1,660	1,120	844	1,610	1,080	67,500	966	1,660	714	1,090	1,720	1,480	2,120
9-Sep	837	1,370	827	5,220	4,910	1,230	1,500	1,300	815	1,560	1,100	46,500	974	1,490	818	1,200	1,610	1,230	1,980
10-Sep	1,010	1,120	763	4,450	6,650	1,370	1,410	953	1,110	1,500	1,190	24,700	982	1,420	975	824	1,750	1,090	4,820
11-Sep	802	1,130	797	3,800	4,980	1,520	1,290	1,090	943	1,480	1,410	15,800	1,040	1,470	1,100	766	1,530	986	9,540
12-Sep	759	1,120	864	2,600	3,630	1,340	1,150	1,800	745	1,540	1,460	12,200	978	2,220	1,240	768	1,620	916	5,480
13-Sep	2,960	1,020	901	1,960	2,790	1,360	1,060	1,380	1,090	1,530	1,290	9,900	869	2,440	1,260	905	1,480	852	4,960
14-Sep	3,120	1,080	992	1,750	2,380	1,340	1,360	980	977	1,450	1,310	7,640	840	2,260	1,490	936	1,560	846	5,740
15-Sep	2,110	1,460	836	4,050	2,050	1,230	7,270	1,520	997	1,400	1,230	6,270	927	1,890	1,360	819	1,600	928	5,160
16-Sep	2,110	1,370	613	5,640	1,830	797	6,870	1,720	844	1,360	1,010	5,530	940	1,720	1,400	762	1,730	904	4,570
17-Sep	1,610	1,170	565	4,080	2,480	1,170	4,740	1,150	703	1,300	918	4,710	959	1,480	1,390	687	1,620	1,150	4,140
18-Sep	1,360	1,120	658	3,340	75,200	1,320	3,680	1,110	620	1,300	1,090	4,140	3,180	1,360	1,320	909	1,020	842	6,940
19-Sep	1,260	1,120	621	3,210	50,200	1,300	3,050	1,070	640	1,210	1,210	3,750	13,100	1,280	1,010	1,320	1,420	721	8,000
20-Sep	1,350	1,190	609	2,990	23,800	1,310	2,730	1,060	952	1,140	1,010	3,640	4,880	1,240	1,270	1,280	1,500	803	5,290
21-Sep	1,180	1,360	867	2,180	13,800	1,310	2,360	1,080	1,510	1,100	1,020	3,590	2,910	1,210	1,460	1,240	1,710	775	4,320
22-Sep	1,060	1,130	554	1,780	9,340	1,340	2,030	1,210	1,110	1,060	1,040	3,550	2,240	1,280	1,310	1,330	1,590	996	5,890
23-Sep	1,030	1,010	1,220	10,300	7,030	1,350	2,360	1,400	1,240	1,020	1,250	3,800	2,200	1,240	1,260	1,320	1,490	1,200	5,320

Main Stem FLOWS near BARRYVILLE										USGS gage 01428500 - 51 miles below Hancock										<930	<700	<560
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018			
17-Aug	1,480	1,120	1,480	3,240	9,880	1,290	1,280	1,020	1,490	4,500	1,760	5,630	1,260	1,640	1,090	1,020	2,310	1,480	8,720			
18-Aug	1,290	1,450	1,410	3,000	7,700	1,300	1,270	1,260	1,460	4,100	1,540	3,750	1,080	1,580	1,060	989	2,070	1,400	12,600			
19-Aug	1,160	1,340	1,360	2,520	6,040	1,330	1,390	1,300	1,420	3,790	1,330	3,030	981	1,510	1,060	998	1,800	2,050	16,700			
20-Aug	1,070	1,120	1,370	2,230	5,000	1,350	1,720	1,090	1,520	3,600	1,260	3,760	949	1,440	1,070	1,040	1,600	2,100	13,600			
21-Aug	973	1,160	1,370	1,910	5,020	1,340	3,050	1,090	1,510	4,560	1,260	2,720	967	1,390	1,500	1,890	1,490	2,040	10,400			
22-Aug	906	1,180	1,360	1,590	5,730	1,460	1,810	1,120	1,490	6,520	1,500	2,420	977	1,330	2,350	2,390	2,080	1,710	9,140			
23-Aug	953	1,180	1,270	1,420	4,860	1,510	1,410	1,050	1,490	9,390	4,060	2,650	975	1,290	1,760	1,640	1,980	1,860	8,210			
24-Aug	1,100	1,270	1,280	1,230	4,120	1,540	1,330	928	1,500	5,620	5,600	2,470	939	1,280	1,340	1,310	1,570	2,100	6,470			
25-Aug	1,260	1,430	1,480	1,090	3,760	1,300	1,410	966	1,510	3,910	3,240	2,460	908	1,130	1,210	1,200	1,400	1,680	5,280			
26-Aug	1,180	1,390	1,020	1,040	3,530	1,230	1,720	1,110	1,500	3,080	2,840	2,690	886	1,100	1,110	1,190	1,330	1,480	4,490			
27-Aug	1,050	1,250	703	999	3,090	1,510	1,820	1,090	1,380	2,610	2,050	2,780	872	1,440	1,050	1,110	1,280	1,350	4,110			
28-Aug	937	1,360	954	1,090	2,760	1,630	2,310	1,020	1,280	2,340	1,590	25,200	902	2,280	1,010	1,050	1,210	1,270	3,920			
29-Aug	834	1,480	994	1,110	2,610	1,560	2,400	954	1,260	2,740	1,370	41,700	1,250	2,200	985	1,020	1,170	1,230	3,730			
30-Aug	806	1,490	1,060	1,470	2,540	1,630	9,730	941	1,330	3,490	1,200	21,400	1,110	2,430	966	998	1,120	1,200	3,590			
31-Aug	783	1,590	878	1,310	3,130	1,600	5,600	954	1,310	3,020	1,080	12,200	960	2,120	1,040	984	1,070	1,170	3,490			
1-Sep	817	1,650	1,190	1,240	4,050	1,390	3,640	1,220	1,310	2,560	996	8,860	956	1,890	1,190	1,030	1,060	1,120	3,470			
2-Sep	1,090	1,520	988	10,900	2,790	1,260	3,040	1,330	1,130	2,810	987	7,350	1,030	2,120	1,010	1,040	1,020	1,050	3,280			
3-Sep	1,250	1,540	806	15,300	2,280	1,200	2,930	1,300	1,020	2,700	1,030	6,180	912	3,780	1,020	989	1,140	1,030	3,030			
4-Sep	1,180	1,280	894	26,300	1,970	1,270	2,780	1,090	1,020	2,530	1,340	5,370	789	4,130	1,170	964	1,250	1,180	2,770			
5-Sep	979	1,240	980	22,000	1,650	1,410	2,570	942	1,020	2,210	1,470	6,830	936	2,760	987	1,020	1,230	1,190	2,560			
6-Sep	845	1,400	978	13,800	1,490	1,220	2,360	961	918	1,940	1,430	11,400	1,160	2,180	842	1,060	1,390	1,180	2,530			
7-Sep	745	1,250	1,210	9,900	1,420	1,160	2,200	992	733	1,770	1,200	43,600	1,260	1,860	819	1,090	1,500	1,420	3,110			
8-Sep	688	1,510	1,310	7,610	1,370	1,160	1,990	1,030	776	1,690	1,090	67,200	1,130	1,670	777	1,150	1,650	1,670	2,850			
9-Sep	733	1,560	996	6,030	4,390	1,200	1,820	1,160	882	1,650	1,090	51,900	1,150	1,530	796	1,270	1,520	1,400	2,610			
10-Sep	960	1,330	789	5,080	7,410	1,310	1,710	1,120	1,030	1,580	1,130	28,900	1,140	1,430	918	1,120	1,730	1,220	3,890			
11-Sep	980	1,230	807	4,230	5,740	1,470	1,600	955	1,080	1,550	1,320	18,000	1,160	1,390	1,030	868	1,520	1,100	10,600			
12-Sep	803	1,230	826	3,270	4,240	1,400	1,480	1,510	856	1,600	1,480	13,800	1,160	1,910	1,200	915	1,680	1,020	6,510			
13-Sep	2,090	1,180	885	2,530	3,300	1,340	1,370	1,530	923	1,650	1,350	11,100	1,060	2,450	1,280	1,090	1,570	962	5,700			
14-Sep	4,440	1,160	968	2,240	2,710	1,340	1,420	1,110	1,050	1,560	1,320	8,860	988	2,460	1,540	1,070	1,550	933	6,110			
15-Sep	2,620	1,410	938	3,340	2,350	1,330	6,090	1,150	1,010	1,480	1,290	7,180	1,020	2,020	1,460	1,040	1,620	983	5,730			
16-Sep	2,520	1,570	934	7,090	2,100	1,040	7,880	1,680	927	1,440	1,110	6,350	1,100	1,780	1,440	914	1,860	1,030	5,150			
17-Sep	1,940	1,340	635	5,050	2,030	836	5,390	1,330	791	1,420	996	5,410	1,050	1,600	1,460	859	1,810	1,130	4,670			
18-Sep	1,520	1,260	609	4,180	76,400	1,430	4,190	1,080	693	1,410	1,000	4,720	1,870	1,430	1,410	838	1,280	1,040	6,400			
19-Sep	1,310	1,220	665	3,950	60,600	1,300	3,480	1,060	638	1,330	1,190	4,220	15,400	1,330	1,200	1,190	1,000	876	8,870			
20-Sep	1,470	1,300	606	3,910	28,800	1,300	3,110	1,030	750	1,240	1,100	4,050	6,310	1,270	1,130	1,340	1,780	774	6,130			
21-Sep	1,290	1,430	746	2,980	16,900	1,300	2,740	1,030	1,260	1,180	1,030	4,010	3,430	1,220	1,480	1,310	1,640	908	5,020			
22-Sep	1,130	1,520	725	2,320	11,500	1,320	2,410	1,080	1,210	1,150	1,030	3,950	2,440	1,260	1,360	1,400	1,680	901	5,630			
23-Sep	1,030	1,110	841	9,190	8,560	1,330	2,370	1,290	1,110	1,100	1,190	4,190	2,240	1,300	1,320	1,410	1,570	1,170	6,090			



USGS 01432110 Lackawaxen River at Rowland, PA



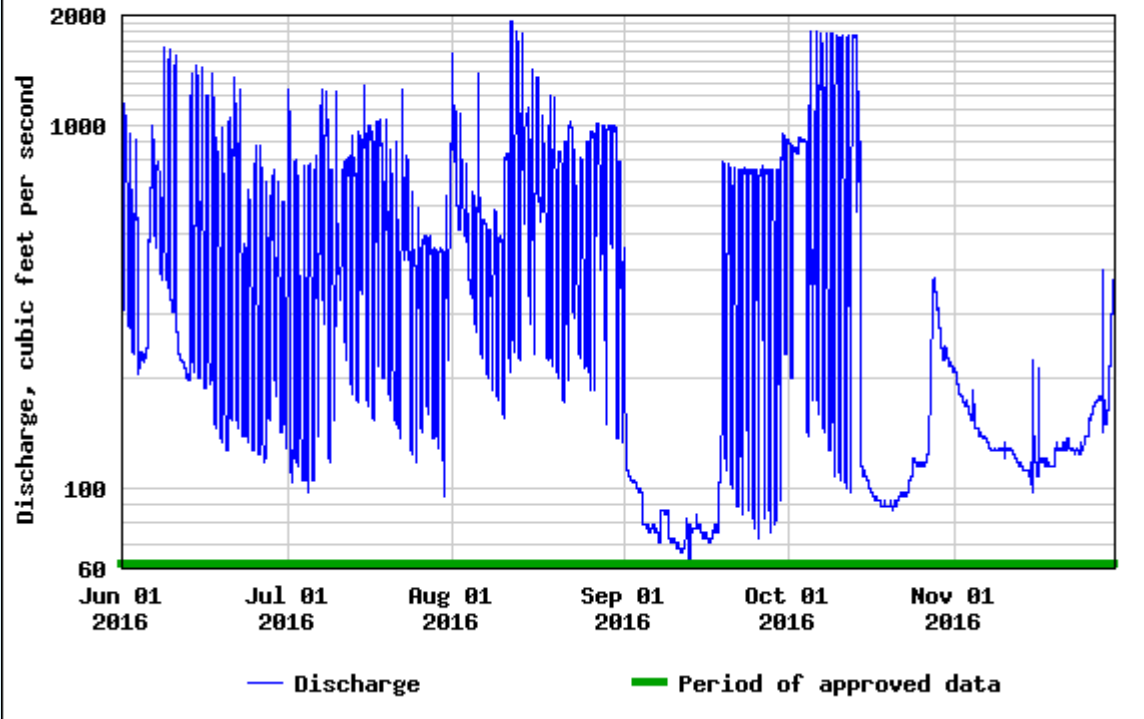
Lake Wallenpaupack's PP&L's power generation during the summer of 2008 was halted in mid Aug, and then recommenced through Sept; leading to dewatering of the Main Stem for a period of 12 days, to balance the Montague flow target.

LORDVILLE FLOWS 2007 to DATE							USGS gage 01427207 - 9 miles below Hancock						<900	<700	<560				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
24-Sep								879	1,220	846	1,250	7,460	1,650	1,110	1,280	1,390	1,040	1,310	3,920
25-Sep								886	1,060	883	1,370	5,520	1,410	1,060	1,160	1,460	908	1,380	8,120
26-Sep								1,040	873	817	1,290	4,620	1,290	1,020	952	1,460	839	1,370	12,300
27-Sep								1,170	847	982	765	5,490	1,240	1,030	1,110	1,420	869	1,410	12,600
28-Sep								1,270	705	1,430	391	13,900	2,160	1,180	1,260	1,390	884	1,420	11,800
29-Sep								1,350	938	1,160	550	14,800	3,280	1,380	1,370	749	766	1,420	9,360
30-Sep								1,320	789	1,000	3,690	15,000	2,330	1,470	1,470	1,540	736	1,470	7,050
1-Oct								1,360	786	911	37,400	9,600	1,940	1,550	1,330	1,940	954	1,520	5,820
2-Oct								1,340	819	840	11,300	9,010	1,580	1,450	1,140	1,040	1,010	1,540	5,990
3-Oct								1,360	780	845	5,140	7,880	1,580	1,310	1,030	796	1,120	1,530	7,890
4-Oct								1,360	915	884	3,530	6,670	1,580	1,360	944	754	1,010	1,450	6,190
5-Oct								1,420	961	836	6,100	5,810	1,840	1,420	934	768	592	1,350	5,910
6-Oct								1,470	959	803	5,710	5,090	1,640	1,650	1,180	1,280	513	1,330	5,340
7-Oct								1,500	991	788	4,460	4,470	1,490	1,400	1,240	1,400	593	1,330	5,020
8-Oct								1,500	1,060	927	3,530	4,010	1,400	1,650	1,270	1,460	574	1,090	4,590
9-Oct								1,380	1,140	983	2,800	3,760	1,310	1,260	1,320	1,360	497	734	4,250
10-Oct								1,610	1,260	851	2,310	3,590	1,240	1,090	1,370	1,160	441	1,310	3,950
11-Oct								1,510	1,210	949	2,010	3,470	1,240	945	1,360	1,110	447	1,360	4,560
12-Oct								2,230	1,090	978	2,060	3,370	1,170	892	1,260	1,080	504	1,120	6,640
13-Oct								1,410	1,090	929	1,800	3,440	1,090	887	1,240	1,090	577	806	5,550
14-Oct								1,100	1,090	1,030	1,620	4,560	1,070	985	1,280	1,110	580	842	5,200
15-Oct								931	1,040	1,000	1,910	5,990	1,090	1,080	1,520	1,210	1,410	1,160	4,800
16-Oct								815	1,070	906	3,830	4,770	1,090	1,100	6,440	1,350	1,320	1,230	4,920
17-Oct								727	1,220	868	3,440	4,640	1,070	1,160	2,990	1,370	1,320	1,260	4,530
18-Oct								759	1,250	850	2,830	3,720	1,010	1,120	1,720	1,430	1,330	1,270	4,220
19-Oct								623	1,160	871	2,430	2,960	6,450	991	1,280	1,440	1,250	1,280	3,980
20-Oct								1,730	1,080	920	2,140	3,680	7,910	990	1,040	1,370	1,140	1,280	3,860
21-Oct								1,740	1,080	921	1,930	3,350	4,520	857	900	1,240	684	1,270	3,910
22-Oct								1,180	1,080	990	1,790	2,990	3,230	906	1,020	1,230	1,050	1,200	3,690
23-Oct								1,020	1,110	929	1,630	2,780	2,730	990	1,170	1,220	1,400	973	3,570
24-Oct								1,590	881	2,790	1,520	2,600	3,880	1,180	1,370	1,210	1,630	664	3,580
25-Oct								1,800	521	7,030	1,450	2,440	3,510	1,140	1,250	1,300	1,750	1,550	3,460
26-Oct								1,520	5,740	3,810	1,540	2,310	3,110	1,220	1,160	1,350	1,370	1,440	3,410
27-Oct								4,770	3,000	2,830	2,710	2,390	2,790	1,180	1,120	845	829	1,210	3,820
28-Oct								8,420	3,310	5,370	3,040	2,850	2,520	1,130	1,020	708	1,960	800	5,640
29-Oct								4,420	3,900	8,150	2,400	2,580	2,310	1,150	971	6,520	1,780	673	5,480
30-Oct								3,110	2,630	5,200	2,130	2,610	4,070	1,130	999	4,190	1,830	11,900	5,350
31-Oct								2,440	2,150	4,340	1,940	2,650	5,860	999	907	2,570	1,750	5,720	4,890

CALLICOON FLOWS 2000 to DATE							USGS gage 01427510 - 27 miles below Hancock						<930	<700	<560				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
24-Sep	966	453	1,060	12,200	6,470	1,340	2,550	1,030	1,410	1,020	1,230	8,660	1,920	1,140	1,220	1,360	1,170	1,310	4,530
25-Sep	930	951	741	8,060	5,410	1,550	2,320	1,040	1,350	1,110	1,270	6,390	1,620	1,070	1,210	1,490	958	1,350	9,310
26-Sep	905	1,960	813	6,160	4,600	1,220	2,090	1,060	1,160	1,050	1,390	5,190	1,500	1,030	940	1,450	896	1,410	15,800
27-Sep	905	1,060	788	5,190	4,090	1,080	1,950	1,410	1,110	1,370	983	6,270	1,440	1,010	1,030	1,440	929	1,360	16,000
28-Sep	873	723	1,780	9,090	6,060	1,480	2,000	1,380	986	1,940	585	19,000	2,350	1,070	1,260	1,450	935	1,480	15,600
29-Sep	813	847	1,590	11,200	9,850	1,500	6,800	1,590	1,230	1,650	543	19,700	3,940	1,340	1,310	1,140	898	1,390	12,600
30-Sep	771	1,120	958	8,590	8,850	1,480	6,160	1,530	1,140	1,380	3,180	18,300	2,810	1,420	1,480	1,650	707	1,480	8,940
1-Oct	754	1,080	756	6,850	8,180	1,590	4,750	1,510	1,080	1,240	48,000	11,400	2,290	1,530	1,340	2,450	1,000	1,510	7,040
2-Oct	733	1,180	673	5,670	7,060	1,610	4,930	1,530	1,080	1,160	15,200	10,500	1,950	1,530	1,100	1,210	953	1,560	7,040
3-Oct	699	1,140	1,200	4,800	6,310	1,620	4,120	1,540	992	1,160	6,450	9,110	1,950	1,330	998	809	1,190	1,550	8,160
4-Oct	680	1,170	1,100	4,310	5,560	1,630	3,660	1,550	1,060	1,190	4,270	7,530	1,960	1,350	949	740	1,090	1,510	11,100
5-Oct	749	1,320	1,000	5,740	4,790	1,630	3,440	1,570	1,170	1,150	7,420	6,500	2,240	1,490	809	682	750	1,370	8,100
6-Oct	1,890	1,370	1,200	4,910	4,120	1,590	3,150	1,650	1,140	1,090	7,360	5,660	2,020	1,900	1,020	1,100	503	1,360	7,600
7-Oct	2,230	1,350	1,100	4,210	3,720	1,540	2,820	1,690	1,150	1,070	5,470	4,960	1,780	1,950	1,170	1,380	1,380	6,430	6,430
8-Oct	1,520	1,340	1,200	3,610	3,290	2,790	2,590	1,710	1,210	1,090	4,260	4,430	1,650	1,930	1,210	1,480	609	1,360	5,950
9-Oct	1,270	1,400	1,300	3,200	2,330	8,450	2,450	1,660	1,310	1,360	3,300	4,090	1,530	1,500	1,210	1,490	522	819	5,340
10-Oct	1,150	1,500	1,200	2,880	1,720	3,960	2,320	1,880	1,400	1,170	2,690	3,870	1,460	1,230	1,240	1,250	418	1,320	4,880
11-Oct	1,110	1,460	1,200	2,580	1,670	2,440	2,210	1,800	1,490	1,170	2,340	3,710	1,410	1,060	1,250	1,220	378	1,540	4,480
12-Oct	1,070	1,460	5,000	2,290	1,710	5,840	2,160	2,760	1,270	1,330	2,480	3,560	1,340	992	1,160	1,180	429	1,330	6,020
13-Oct	1,030	1,400	4,000	2,060	1,650	14,200	1,850	1,900	1,260	1,170	2,180	3,690	1,220	939	1,060	1,210	517	939	8,910
14-Oct	1,110	1,340	3,300	1,830	1,630	10,500	2,150	1,440	1,270	1,290	1,890	5,390	1,200	982	1,220	1,180	555	720	6,900
15-Oct	1,060	1,510	3,000	4,950	1,630	9,280	2,040	1,210	1,240	1,350	2,170	7,240	1,230	1,130	1,370	1,200	1,070	1,200	6,260
16-Oct	1,050	1,490	3,400	5,520	2,690	6,530	1,960	1,060	1,190	1,220	4,120	5,450	1,220	1,130	6,750	1,380	1,330	1,260	5,660
17-Oct	1,120	1,570	13,000	4,420	2,450	4,520	2,220	930	1,360	1,160	4,000	5,130	1,180	1,210	4,150	1,360	1,380	1,320	5,730
18-Oct	2,350	1,460	4,000	3,820	2,110	3,440	4,250	920	1,460	1,130	3,210	4,340	1,090	1,290	2,200	1,400	1,420	1,320	5,250
19-Oct	3,880	1,440	4,000	3,590	3,790	2,750	3,840	880	1,370	1,100	2,730	3,390	7,390	1,000	1,490	1,400	1,390	1,340	4,790
20-Oct	2,740	1,430	3,000	3,810	4,910	2,290	7,600	1,850	1,260	1,190	2,410	4,160	10,100	1,070	1,180	1,450	1,290	1,330	4,440
21-Oct	2,190	1,450	2,500	3,390	3,870	2,010	11,700	2,400	1,240	1,160	2,170	4,000	6,100	895	1,030	1,300	988	1,320	4,270
22-Oct	1,870	1,470	2,200	3,140	3,630	2,090	7,900	1,580	1,260	1,230	1,990	3,420	4,250	922	1,150	1,310	911	1,270	4,300
23-Oct	1,630	1,450	1,800	2,870	3,270	7,960	6,170	1,320	1,260	1,270	1,800	3,120	3,480	940	1,250	1,230	1,280	1,140	4,050
24-Oct	1,480	1,520	1,500	2,630	3,020	6,950	5,110	1,740	1,250	2,960	1,660	2,900	4,670	1,160	1,420	1,200	1,600	785	3,870
25-Oct	1,400	1,650	1,400	2,410	2,820	8,710	4,430	2,350	1,020	8,410	1,580	2,710	4,560	1,100	1,400	1,310	1,770	1,310	3,880
26-Oct	1,320	1,550	1,900	2,220	2,660	11,700	3,950	1,970	6,200	4,730	1,590	2,530	4,020	1,190	1,260	1,340	1,560	1,600	3,730
27-Oct	1,230	1,470	2,100	6,310	2,510	7,780	3,580	5,310	3,990	3,530	2,890	2,640	3,540	1,180	1,210	1,060	969	1,420	3,640
28-Oct	1,200	1,520	1,900	20,600	2,360	5,610	14,300	10,300	4,230	5,760	3,600	3,200	3,160	1,090	1,130	837	1,750	928	4,420
29-Oct	1,140	1,500	1,700	24,300	2,220	4,390	16,100	5,510	5,380	10,300	2,750	2,900	2,900	1,070	1,080	7,000	1,820	760	7,010
30-Oct	1,060	1,500	1,500	28,300	2,230	3,610	10,200	3,910	3,580	6,620	2,390	2,930	4,540	1,140	1,070	5,350	1,950	13,600	6,610
31-Oct	1,020	1,330	1,300	18,900	2,170	3,050	8,330	3,110	2,870	5,230	2,190	2,980	7,100	1,040	990	3,040	1,870	8,110	6,410

	Main Stem FLOWS near BARRYVILLE										USGS gage 01428500 - 51 miles below Hancock										<930	<700	<560
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018				
24-Sep	1,040	870	1,270	15,300	7,400	1,310	2,800	1,140	1,290	1,080	1,240	9,280	2,130	1,210	1,300	1,400	1,310	1,320	5,000				
25-Sep	956	772	851	9,580	6,470	1,500	2,610	1,000	1,340	1,120	1,230	7,790	1,760	1,120	1,290	1,510	1,070	1,350	7,670				
26-Sep	956	2,040	767	7,480	5,320	1,350	2,380	1,000	1,230	1,130	1,390	6,070	1,600	1,070	1,110	1,540	952	1,450	16,300				
27-Sep	961	1,520	889	6,220	4,680	1,180	2,210	1,210	1,130	1,280	1,200	5,610	1,510	1,040	996	1,540	914	1,380	16,000				
28-Sep	936	1,000	2,070	8,770	6,770	1,270	2,170	1,310	1,150	2,150	857	21,700	1,940	1,050	1,170	1,500	936	1,500	15,600				
29-Sep	878	800	2,060	13,200	12,200	1,490	6,360	1,460	1,220	1,990	726	23,900	4,250	1,220	1,270	1,440	956	1,410	13,700				
30-Sep	823	1,200	1,240	9,880	10,900	1,480	6,420	1,470	1,280	1,580	939	23,400	3,230	1,370	1,420	1,730	884	1,480	9,690				
1-Oct	795	1,200	884	8,010	9,180	1,500	5,010	1,430	1,110	1,370	48,500	13,900	2,480	1,480	1,440	2,760	997	1,510	7,810				
2-Oct	779	1,260	734	6,730	7,700	1,560	5,150	1,480	1,100	1,280	22,000	12,000	2,150	1,540	1,270	1,690	1,080	1,570	8,090				
3-Oct	754	1,250	662	5,790	6,830	1,560	4,490	1,450	1,060	1,230	8,150	10,900	2,140	1,380	1,140	1,120	1,170	1,570	12,800				
4-Oct	720	1,270	932	5,060	6,020	1,580	3,970	1,470	1,000	1,260	5,160	8,860	2,100	1,290	1,090	934	1,210	1,560	9,040				
5-Oct	730	1,330	1,010	6,290	5,210	1,580	3,700	1,470	1,110	1,240	7,550	7,610	2,370	1,430	1,020	854	1,060	1,430	8,540				
6-Oct	1,390	1,480	913	5,880	4,470	1,560	3,470	1,550	1,130	1,160	8,960	6,580	2,280	1,720	1,050	901	698	1,370	7,220				
7-Oct	2,800	1,460	972	5,050	4,010	1,530	3,110	1,590	1,120	1,120	6,450	5,770	1,990	1,960	1,230	1,320	620	1,370	6,690				
8-Oct	1,870	1,430	946	4,430	3,590	2,310	2,860	1,610	1,140	1,110	5,100	5,090	1,830	2,070	1,260	1,430	670	1,400	6,080				
9-Oct	1,400	1,460	888	3,970	2,900	7,650	2,700	1,670	1,230	1,300	3,920	4,670	1,720	1,840	1,290	1,450	670	1,140	5,580				
10-Oct	1,230	1,550	974	3,600	1,940	4,790	2,570	1,770	1,290	1,300	3,120	4,400	1,610	1,390	1,340	1,300	588	1,120	5,150				
11-Oct	1,150	1,590	1,170	3,230	1,750	2,780	2,450	1,810	1,430	1,220	2,610	4,180	1,570	1,190	1,390	1,160	533	1,540	7,340				
12-Oct	1,120	1,560	5,190	2,890	1,800	4,790	2,440	2,750	1,290	1,300	2,690	4,020	1,520	1,070	1,340	1,090	521	1,440	10,700				
13-Oct	1,070	1,540	7,030	2,600	1,750	14,900	2,090	2,280	1,230	1,250	2,530	4,160	1,410	1,000	1,240	1,090	573	1,130	8,180				
14-Oct	1,090	1,420	4,370	2,330	1,690	12,100	2,400	1,590	1,220	1,250	2,110	5,530	1,320	997	1,280	1,080	650	878	7,330				
15-Oct	1,100	1,570	3,120	5,040	1,700	10,100	2,300	1,290	1,210	1,350	2,210	8,540	1,340	1,080	1,330	1,090	707	997	6,540				
16-Oct	1,070	1,570	3,680	6,900	2,330	7,450	2,220	1,120	1,150	1,310	3,730	6,510	1,350	1,140	5,800	1,250	1,490	1,250	6,480				
17-Oct	1,110	1,680	14,600	5,460	2,680	5,110	2,250	1,000	1,230	1,240	4,640	5,780	1,320	1,160	5,240	1,310	1,380	1,310	6,080				
18-Oct	1,960	1,580	8,980	4,740	2,250	3,880	4,270	907	1,380	1,200	3,640	5,230	1,260	2,520	1,380	1,390	1,390	1,320	5,520				
19-Oct	4,980	1,520	5,800	4,310	3,530	3,080	4,400	928	1,360	1,150	3,040	4,130	6,390	1,160	1,660	1,390	1,370	1,340	5,110				
20-Oct	3,640	1,520	4,430	4,580	5,790	2,520	5,850	1,310	1,260	1,190	2,620	4,560	12,900	1,080	1,320	1,420	1,320	1,330	4,880				
21-Oct	2,790	1,540	3,520	4,190	4,400	2,180	12,200	2,620	1,200	1,210	2,330	5,020	7,340	1,040	1,120	1,280	1,150	1,330	4,890				
22-Oct	2,290	1,560	2,810	3,900	3,920	2,140	8,370	1,810	1,200	1,220	2,130	4,110	5,010	944	1,090	1,220	803	1,320	4,670				
23-Oct	1,920	1,560	2,340	3,590	3,600	7,130	6,510	1,400	1,200	1,310	1,940	3,710	3,930	983	1,270	1,180	1,240	1,220	4,420				
24-Oct	1,690	1,560	2,010	3,300	3,250	8,000	5,430	1,430	1,250	2,310	1,780	3,420	4,760	1,090	1,330	1,180	1,580	1,020	4,390				
25-Oct	1,560	1,730	1,760	3,030	3,030	8,530	4,730	2,400	1,000	9,220	1,680	3,180	5,050	1,210	1,440	1,220	1,810	898	4,260				
26-Oct	1,450	1,690	2,500	2,800	2,820	13,300	4,260	2,130	6,000	5,970	1,630	2,940	4,540	1,210	1,280	1,330	1,800	1,790	4,130				
27-Oct	1,330	1,550	3,650	5,680	2,660	8,730	3,890	4,240	3,800	4,270	2,690	2,980	3,930	1,240	1,230	1,280	1,330	1,510	4,760				
28-Oct	1,260	1,610	2,930	22,000	2,510	6,290	11,900	11,500	4,410	6,190	4,080	3,860	3,520	1,190	1,160	880	1,510	1,180	7,800				
29-Oct	1,210	1,570	2,440	24,700	2,350	4,900	19,700	6,680	6,600	12,400	3,140	3,550	3,160	1,150	1,100	6,050	2,120	897	7,270				
30-Oct	1,130	1,620	2,160	32,400	2,330	4,040	12,200	4,580	4,440	8,030	2,620	3,480	4,360	1,180	1,100	7,260	2,040	10,100	7,180				
31-Oct	1,080	1,470	1,960	21,700	2,330	3,410	9,890	3,560	3,360	6,230	2,350	3,610	7,500	1,140	1,080	3,850	2,020	9,810	6,340				

USGS 01432110 Lackawaxen River at Rowland, PA



The drawdown of Lake Wallenpaupack during Sept & Oct 2016 for maintenance, led to dewatering of 51 miles of the Main Stem from Hancock to the Lacawaxen for a period of 10 days; to save water and balance the Montague flow target.

LORDVILLE FLOWS 2007 to DATE							USGS gage 01427207 - 9 miles below Hancock						<900	<700	<560				
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
1-Nov								2,030	2,260	4,320	1,760	2,610	4,510	1,200	934	2,000	1,330	3,270	
2-Nov								1,730	2,770	3,980	1,610	2,480	3,850	1,800	1,030	1,680	936	2,460	
3-Nov								1,500	2,510	3,630	1,500	2,540	3,270	1,660	1,030	1,460	836	2,020	
4-Nov								1,350	2,300	3,350	1,660	2,480	2,870	1,380	1,090	1,300	1,260	1,730	
5-Nov								1,230	2,190	3,150	2,770	2,360	2,540	966	953	1,200	1,450	1,510	
6-Nov								1,380	2,040	3,050	2,410	2,270	2,360	893	713	1,140	1,460	1,420	
7-Nov								1,720	1,850	2,890	2,070	2,210	2,160	996	1,180	1,090	1,570	1,610	
8-Nov								1,370	1,690	2,780	1,940	2,170	1,980	1,530	1,290	1,020	1,680	1,450	
9-Nov								1,240	1,600	2,670	2,000	2,090	1,820	1,570	1,370	958	1,770	1,320	
10-Nov								1,210	1,460	2,560	1,960	2,040	1,690	1,540	1,390	940	1,790	1,270	
11-Nov								1,190	1,330	2,210	1,890	2,120	1,590	1,370	1,450	5,590	1,740	1,200	
12-Nov								1,110	1,220	1,940	1,750	2,010	1,500	1,150	1,490	4,680	1,760	1,110	
13-Nov								1,430	1,180	1,690	1,660	1,920	1,960	1,090	1,510	3,760	1,810	1,060	
14-Nov								1,820	1,290	1,440	1,590	1,900	2,370	1,050	1,310	3,000	1,800	1,020	
15-Nov								5,830	1,380	1,390	1,520	2,120	1,980	1,130	1,120	2,470	1,730	976	
16-Nov								8,440	2,550	1,330	1,490	2,210	1,860	1,150	1,100	2,090	1,930	953	
17-Nov								5,000	2,370	1,270	2,920	2,590	1,750	974	1,280	1,850	1,900	974	
18-Nov								3,570	2,050	1,210	3,540	2,410	1,650	1,150	1,930	1,670	1,600	943	
19-Nov								2,860	1,830	1,170	2,850	2,300	1,580	1,560	1,800	1,680	1,220	1,380	
20-Nov								2,820	1,680	2,380	2,530	2,240	1,520	1,290	1,560	4,830	1,240	1,870	
21-Nov								3,310	1,550	2,710	2,280	2,170	1,470	1,180	1,210	3,590	1,330	1,480	
22-Nov								2,840	1,400	2,120	2,070	2,110	1,410	1,200	1,190	2,730	1,320	1,360	
23-Nov								2,490	1,200	1,910	1,970	6,880	1,360	1,370	1,260	2,260	1,150	1,300	
24-Nov								2,200	1,100	1,800	1,880	6,170	1,340	1,410	1,410	1,990	1,090	1,230	
25-Nov								2,010	1,440	1,730	1,710	4,710	1,270	1,460	2,070	1,830	1,190	1,170	
26-Nov								2,540	1,580	1,710	2,260	3,970	1,220	1,420	1,630	1,660	1,450	1,130	
27-Nov								7,320	1,480	1,640	2,570	3,490	1,190	5,040	1,490	1,530	1,620	1,070	
28-Nov								5,470	1,380	1,610	2,150	3,170	1,170	5,970	1,350	1,450	1,170	1,010	
29-Nov								4,030	1,330	1,580	1,960	3,180	1,120	3,770	1,210	1,360	1,030	958	
30-Nov								3,220	1,290	1,530	1,890	7,800	1,090	2,860	1,160	1,260	2,210	929	
1-Dec								2,640	1,820	1,520	6,620	6,120	1,070	2,480	1,160	1,280	4,770	960	
2-Dec								2,240	2,720	1,390	14,300	5,010	1,060	2,210	1,440	1,620	4,000	961	
3-Dec								2,450	2,190	3,310	6,760	4,370	1,160	2,040	1,520	2,260	2,890	901	
4-Dec								2,500	1,990	4,050	4,870	3,940	1,170	1,920	1,720	1,980	2,250	866	
5-Dec								2,090	2,060	2,930	3,880	3,660	1,200	1,880	1,560	1,730	1,890	844	
6-Dec								1,830	1,800	2,810	3,310	3,680	1,100	2,770	1,900	1,610	1,680	979	
7-Dec								1,680	1,660	2,520	2,950	5,330	1,030	2,960	3,260	1,540	1,590	1,080	
8-Dec								1,570	1,400	2,310	2,870	12,100	1,260	2,550	2,530	1,470	1,570	951	

LORDVILLE FLOWS 2007 to DATE							USGS gage 01427207 - 9 miles below Hancock					<900	<700	<560						
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
9-Dec								1,480	1,300	2,360	2,900	8,470	1,510	2,310	2,340	1,400	1,380	911		
10-Dec								1,420	2,750	2,360	3,050	7,430	1,540	2,230	3,090	1,340	1,210	898		
11-Dec								1,430	6,110	2,060	3,260	6,700	2,320	2,050	2,560	1,290	1,120	879		
12-Dec								2,340	17,800	1,880	3,490	6,020	2,280	1,870	2,140	1,220	1,110	868		
13-Dec								2,940	9,400	1,790	6,160	5,380	2,040	1,740	1,880	1,160	1,080	793		
14-Dec								2,640	5,660	2,960	5,120	4,860	1,890	1,700	1,720	1,130	975	686		
15-Dec								2,330	4,810	2,840	4,400	4,620	1,760	1,380	1,620	1,730	839	714		
16-Dec								2,240	5,360	2,950	4,040	4,760	1,660	1,780	1,520	1,790	606	727		
17-Dec								2,170	4,690	2,590	3,520	4,410	1,630	1,370	1,720	1,570	726	742		
18-Dec								2,030	4,500	2,260	3,390	4,100	2,960	1,380	2,130	2,070	2,920	756		
19-Dec								2,710	4,470	2,650	3,260	3,630	3,520	1,810	1,900	1,930	5,330	768		
20-Dec								2,930	4,640	2,800	3,090	3,290	2,840	1,740	1,720	1,730	3,270	795		
21-Dec								2,820	4,350	2,930	3,050	3,230	9,620	1,900	1,590	1,610	3,100	848		
22-Dec								2,740	3,970	3,130	2,980	4,340	10,500	7,240	1,470	1,790	3,090	799		
23-Dec								3,210	3,770	3,140	2,910	5,310	5,950	8,910	1,510	3,120	1,910	904		
24-Dec								12,300	4,000	3,190	2,800	5,130	4,330	6,610	2,490	5,390	1,630	1,890		
25-Dec								7,660	7,340	3,170	2,750	4,490	3,470	4,400	6,410	4,990	1,610	1,620		
26-Dec								5,700	6,060	3,270	2,260	4,150	2,910	3,350	5,280	4,120	1,490	1,400		
27-Dec								4,830	5,780	4,430	1,660	4,020	2,770	2,710	3,890	3,880	1,500	954		
28-Dec								4,350	7,050	4,770	1,310	6,440	2,440	2,410	3,440	3,680	1,950	735		
29-Dec								4,820	8,890	3,640	1,270	5,600	2,200	2,330	3,210	3,300	1,740	695		
30-Dec								5,000	7,420	2,780	1,240	5,200	2,100	5,570	2,610	3,370	1,650	744		
31-Dec								4,560	6,800	2,710	1,310	4,920	1,970	2,990	2,220	3,970	1,500	825		
INTIF <900								49	65	31	47	18	48	5	15	96	32	40	18	
SUMIF <900								40,761	49,412	26,935	37,379	15,854	39,810	4,435	12,569	66,594	23,243	32,423	15,022	
COUNT x 900								44,100	60,450	28,830	43,710	16,740	44,640	4,650	13,950	89,280	29,760	37,200	16,740	
DELTA								3,339	11,038	1,895	6,331	886	4,830	215	1,381	22,686	6,517	4,777	1,718	
INTIF <560								0	4	0	2	0	0	0	0	25	5	0	0	
SUMIF <560								0	1,950	0	941	0	0	0	0	13,093	2,402	0	0	
COUNT x 560								0	2,240	0	1,120	0	0	0	0	14,000	2,800	0	0	
DELTA								0	290	0	179	0	0	0	0	907	398	0	0	

Dewatering Events Considerations

- In 2016, TU/FUDR recommended that the Decree Parties adopt our “**Wait for the Rain**” rapid flow reduction mitigation procedure.
- The procedure requires that reductions in releases should be stopped/paused at 500cfs until rain arrives in the upper Delaware River region, to help offset the effects of further reductions.

Dewatering Events

DR's at or above 700cfs

2017 FFMP

Table	Release 9/16 -9/30	RFCM per event	Release 10/1- 3/31	RFCM per event
	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>
4g	400	100	150	500
4f	350	150	135	530
4e	295	210	120	560
4d	245	310	105	590
4c	190	420	90	620
4b	140	520	75	650
4a	85	630	60	680

Maintain 500cfs the first day; 300cfs the second day

WAIT for the RAIN

Table	Release 9/16 -9/30	RFCM per event	Release 10/1- 3/31	RFCM per event
	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>
4g	400	200	150	700
4f	350	300	135	730
4e	295	410	120	760
4d	245	510	105	790
4c	190	620	90	820
4b	140	720	75	850
4a	85	830	60	880

Maintain 500cfs both days, then reduce once the rain arrives

DR's below 700cfs

2017 FFMP

Table	Release 9/16 -9/30	RFCM per event	Release 10/1- 3/31	RFCM per event
	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>
4g	400	100	150	150
4f	350	150	135	165
4e	295	5	120	180
4d	245	55	105	195
4c	190	110	90	210
4b	140	160	75	225
4a	85	215	60	240

Maintain 300cfs the first day; normal operations the second day

WAIT for the RAIN

Table	Release 9/16 -9/30	RFCM per event	Release 10/1- 3/31	RFCM per event
	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>
4g	400	200	150	700
4f	350	300	135	730
4e	295	410	120	760
4d	245	510	105	790
4c	190	620	90	820
4b	140	720	75	850
4a	85	830	60	880

Maintain 500cfs both days, then reduce once the rain arrives

Dewatering Events

DR's at or above 700cfs

2017 FFMP

Table	Release 9/16 -9/30	RFCM per event	Release 10/1- 3/31	RFCM per event
	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>
4g	400	100	150	500
4f	350	150	135	530
4e	295	210	120	560
4d	245	310	105	590
4c	190	420	90	620
4b	140	520	75	650
4a	85	630	60	680

Maintain 500cfs the first day; 300cfs the second day

DR's below 700cfs

2017 FFMP

Table	Release 9/16 -9/30	RFCM per event	Release 10/1- 3/31	RFCM per event
	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>
4g	400	100	150	150
4f	350	150	135	165
4e	295	5	120	180
4d	245	55	105	195
4c	190	110	90	210
4b	140	160	75	225
4a	85	215	60	240

Maintain 300cfs the first day; normal operations the second day

WAIT for the RAIN

Table	Release 9/16 -9/30	RFCM per event	Release 10/1- 3/31	RFCM per event
	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>
4g	400	200	150	700
4f	350	300	135	730
4e	295	410	120	760
4d	245	510	105	790
4c	190	620	90	820
4b	140	720	75	850
4a	85	830	60	880

Maintain 500cfs both days, then reduce once the rain arrives

WAIT for the RAIN

Table	Release 9/16 -9/30	RFCM per event	Release 10/1- 3/31	RFCM per event
	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>	<i>cfs</i>
4g	400	200	150	700
4f	350	300	135	730
4e	295	410	120	760
4d	245	510	105	790
4c	190	620	90	820
4b	140	720	75	850
4a	85	830	60	880

Maintain 500cfs both days, then reduce once the rain arrives

Dewatering Events

DMW Considerations

The 2008 Cole Report* recommends the following:

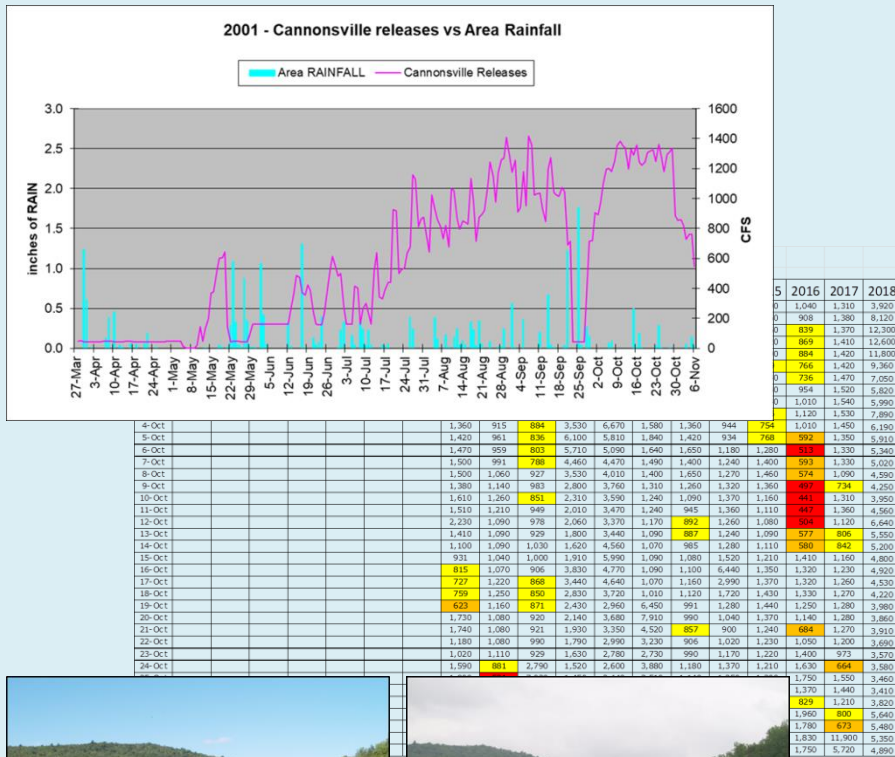
- A flow of 930cfs should be maintained at Callicoon to fully protect the DWM populations in the Main Stem, and allow for some recovery/expansion.
- A minimum flow of 560cfs at Callicoon would be required to just protect the existing beds.

Cole, J. C., P. A. Townsend, and K. N. Eshleman. 2008. Predicting Flow and Temperature Regimes at Three *Alasmidonta heterodon* Locations in the Delaware River. Technical Report NPS/NER/NRTR—2008/109. National Park Service. Philadelphia, PA.

Dewatering Events Recommendations

- End the practice of reducing UDR flows in anticipation of storms.
- In extreme cases: adopt TU/FUDR “Wait for the Rain” procedure.
- Assign minimum flow requirements for Lordville and Callicoon to provide year-round DWM protection.
- Anticipate and mitigate potential impacts of Lake Wallenpaupack operations on the UDR system.

Dewatering Events Questions



Date	Area RAINFALL (inches)	Cannonsville Releases (CFS)
4-Oct	0.0	1,360
5-Oct	0.0	915
6-Oct	0.0	884
7-Oct	0.0	3,530
8-Oct	0.0	6,670
9-Oct	0.0	1,580
10-Oct	0.0	1,360
11-Oct	0.0	944
12-Oct	0.0	754
13-Oct	0.0	1,010
14-Oct	0.0	1,450
15-Oct	0.0	1,350
16-Oct	0.0	1,350
17-Oct	0.0	1,350
18-Oct	0.0	1,350
19-Oct	0.0	1,350
20-Oct	0.0	1,350
21-Oct	0.0	1,350
22-Oct	0.0	1,350
23-Oct	0.0	1,350
24-Oct	0.0	1,350



- End the practice of reducing UDR flows in anticipation of storms.
- In extreme cases: adopt the TU/FUDR “Wait for the Rain” procedure.
- Assign minimum flow requirements for Lordville and Callicoon to provide year-round DWM protection.
- Anticipate and mitigate potential impacts of Lake Wallenpaupack operations on the UDR system.