

City of Metropolis Combined Sewer Overflow (CSO) Data

CSO Event Date	Total Approx. Discharge Volume (gallons)	Total Gauged Rainfall (Inches)	Approx. Discharge Event Duration (hr:min)	Approx. Duration of Rain Event (hr:min)
10/7/2008	1,300,000	1.4	6	24
10/16/2008	105,901	0.72	9.1	10
10/23/2008	1,315,000	1.52	8	12
11/12/2008	857,741	1.16	13	22.5
12/8/2008	56,909	0	55 min	0
12/9/2008	1/4 of 48	1.5	8	18
12/14/2008	1/4 of 48	0.5	3.25	6
12/19/2008	1/8 of 48	0.3	1.75	4
12/24/2008	<1/8 of 48	1.9	18	8
12/25/2008	<1/8 of 48	0.9	5	7
12/28/2008	<1/8 of 48	0.9	3	6.5
1/10/2009	<1/8 of 48	0.7	3	6
1/27/2009	<1/8 of 48	1.68	48	48
2/02/2009	<1/8 of 48	snow melt	10	24
2/10/2009	<1/8 of 48	2.3	34	38
2/17/2009	<1/8 of 48	0.2	3	4
2/27/09	<1/8 of 48	0.4	24	48
3/08/09	294,000	0.33	9	1
3/10/09	370,000	0.55	9.75	3.75
3/24/09	721,000	1.64	17	10.25
4/02/09	576,000	0.72	16.9	6.5
04/18/09	500,000	0.65	14	5
4/19/09	550,000	0.65	15	5.4
4/28/09	946,030	.078	11	5.9
4/30/09	4,599,679	1.79	48.5	41.5
05/03/09	2,441,754	0.92	22	14.7
05/28/09	50,000	0.26	3.00	3.10
06/03/09	1,182,253	0.96	8.04	3:50
06/04/09	359,833	0.37	6.44	9:45
06/09/09	526,246	0.55	4.20	1:20
06/11/09	6,993	0.13	0.3	0:05
06/15/09	385,749	0.56	5.10	8:25
06/16/09	1,962,637	1.11	14.50	7:30
7/04/09	341,851	0.68	7.50	6:00
7/11/09	1,656,846	1.38	10.14	3:15
7/15/09	35,183	0.3	3.08	1:30
7/21/09	3,553,807	2.24	29:05:00	15:50

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7/30/09	17,422	0.34	3:00	6:55
8/04/09	1,379,539	1.37	12:43	5:50
8/20/09	465,837	0.55	4:46	3:15
8/28/09	115,404	0.26	1:48	1:26
9/05/09	367,444	0.47	3:36	2:00
09/15/09	9,478	0.16	0:36	0:45
9/19/09	36,947	0.23	1:38	2:20
9/20/09	277,060	0.57	5:16	5:45
09/24/09	2,643,862	2.14	9:54	6:45
10/01/09	107,814	0.33	1:44	0:20
10/06/09	1,109,911	1.19	8:54	7:00
10/08/09	3,754,182	2.34	40:24:00	34:25:00
10/14/09	243,032	0.31	8:02	6:05
10/15/09	2,401,821	1.12	23:20	4:30
10/22/09	1,222,072	0.93	16:26	11:30
10/27/09	1,319,242	1.19	14:14	17:15
10/29/09	3,333,183	1.77	41:50:00	28:30:00
12/02/09	237,393	0.72	10:50	15:15
12/08/09	1,707,982	1.02	17:12	11:55
12/23/09	4,583,834	2.2	40:26:00	28:45:00
01/17/10	5,344	0.28	1:22	12:25
01/24/10	4,525,265	1:88	67:20:00	37:30:00
03/11/10	116,237	0.36	2:50	1:25
03/22/10	3,400,000	2:12	40	30
03/25/10	435,629	0.55	20	9
03/28/10	1,004,671	0.88	22	13
04/03/10	469,313	0.57	8:20	4:10
04/07/10	839,934	0.8	12:48	7:40
04/23/10	1,850,412	1.93	41:20	44:50
05/01/10	4,415,564	2.46	39:30	26:20
5/26/10	2,420,000	1.59	14:00	4:05
5/30/10	154,416	0.08	3:40	1:00
5/31/10	176,396	0.25	5:00	1:00
06/09/10	77,652	0.47	6:00	8:50
6/11/10	349,599	0.54	5:20	0:30
6/13/10	826,267	1	7:30	2:30
6/17/10	940,651	0.81	7:20	0.3

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6/28/10	4,943	0.16	1:26	0:35
7/11/10	352,571	0.46	3:50	2:05
*7/16/10	2,050,000	1.39	7:00	1:20
07/31/10	478,430	0.76	3:00	0:45
**07/31/10	642,037	0	11:28	0:00
08/16/10	240,632	0.47	2:50	0:35
8/21/10	591,481	0.93	9:50	5:40
8/30/10	546,685	0.9	5:50	2:25
09/09/10	7,643,981	4.2	28:00:00	23:00
10/12/10	237,497	0.52	4:20	2:10
11/16/10	21,440	0.66	2:12	0:18
11/22/10	157,908	0.55	5:30	6:30
11/24/10	1,332,335	0.98	10:00	12:20
1/25/10	1,103,687	0.89	13:00	16:45
11/29/10	2,668,044	1.66	23:00	26:45
12/11/10	470,696	0.87	8:50	8:30
12/16/10	304,776	0.38	6:14	6:45
12/31/11	1,655,730	1.02	13:30	7:30
02/01/11	803,732	0.69	9:38	12:50
02/24/10	9,788,376:32	3.32	43:40	22:00
02/28/11	1,380,000	1.09	46:24	8:55
04/04/11	1,535,054	0.78	14:00	8:25
06/18/11	1,420,000	1.11	12	8
06/19/11	2,070,000	2.07	20	6.5
6/25/11	4,760,000	2.75	31	3.5
06/26/11	5,660,000	3.14	18:30	4
6/27/11	200,000	0.41	3	5
07/04/11	240,000	0.43	2.5	5
08/06/11	340,000	0.49	Flow metering system OOS, being repaired	Flow metering system OOS, being repaired
08/07/11	740,000	0.73	Flow metering system OOS, being repaired	Flow Metering system OOS, being repaired
09/22/11	121,000	0.36	Flow Metering system OOS, being repaired	Flow Metering system OOS, being repairede
09/25/11	6,233,000	3.38	Flow Metering system OOS, being repaired	Flow Metering system OOS, being repaired
11/20/11	6,040,000	3.3	48	52.5
11/26/11	4,270,000	2.53	50	73.5

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12/04/11	10,544,000	5.02	48	79
12/26/11	725,000	0.72	48	10
1/10/12	820,566	1.02	16	15
1/22/12	543,472	0.87	9.2	8
2/29/12	546,937	0.62	7:30	1
3/08/12	1,751,000	1.29	20:00	6:00
3/16/12	121,000	0.36	3:00	3:00
3/22/12	2,247,786	1.33	72:00:00	22:00
4/16/12	228,215	0.42	4:00	6:00
5/20/12	972,139	2.09	8:35	27:25
6/04/12	1,097,427	1.86	9:05	0:30
06/11/12	586,892	1.06	9:10	2:45
07/03/12	38,517	0.09	2:00	0:05
07/08/12	247,309	0.42	11:35	5:10
08/13/12	855,535	1.3	18:50	12:12
08/16/12	399,455	0.83	7:00	1:35
09/01/12	1,357,743	2.95	24:35:00	25:35:00
09/06/12	367,389	0.94	5:40	2:05
09/08/12	750,441	1.57	8:45	1:57
09/17/12	1,431	0.21	1:00	1:55
09/26/12	214,760	0.87	3:40	16:15
09/28/12	475,434	0.89	9:20	3:30
10/05/12	128,397	0.52	3:35	5:50
10/14/12	196,615	0.43	4:50	2:20
10/17/12	448,137	0.9	6:40	2:55
10/26/12	409,774	1.11	8:00	10:45
11/11/12	1,056,569	1.5	18:40	11:20
11/26/12	109,365	0.59	6:20	10:00
12/04/12	112,469	0.41	4:45	7:05
12/09/12	321,552	0.79	7:20	16:15
12/20/12	213,993	0.52	7:10	1:45
01/01/2013	240,250	snow melt	9:10	n/a
1/12/13	6,408,415	4.55	45:10:00	34:15:00
1/29/13	2,376,274	1.4	45:10:00	5:50
2/18/13	545,583	0.79	10:20	6:20
2/25/13	541,493	0.55	17:30	7:55
3/10/13	106,340	0.37	6:40	3:40

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3/17/13	2,150,000	1.58	n/a	n/a
3/29/13	182,740	0.41	7:30	6:25
3/30/13	231,653	.0.4	7:40	6:25
4/10/13	1,748,167	1.66	20:15	21:55
4/18/13	2,389,000	2:14	16:00	6:00
4/24/13	350,000***	0.33	No data	No data
4/26/13	450,000***	0.41	No data	No data
04/27/13	560,000***	0.49	No data	No data
05/01/13	1,800,000***	1.4	No data	No data
05/10/13	388,700	0.36	No data	No data
05/21/13	938,625	1.43	26:15	23:40
06/01/13	6,443,347	3.47	21:45	10:50
06/17/13	334,698	0.32	6:40	6:45
07/20/13	203,858	0.53	2:30	1:30
07/30/13	72,024	0.39	4:45	6:40
08/03/13	3,556	0.37	1:45	7:50
08/07/13	383,670	0.42	7:45	10:50
08/09/13	26,271	0.67	1:55	4:20
08/12/13	43,146	0.47	3:05	ND
08/17/13	153,660	0.8	4:40	ND
08/18/13	2,385	0.31	1:05	ND
09/20/13	432,267	1.39	10:30	15:55
09/24/13	41,257	0.51	1:40	4:20
09/29/13	536,243	1.02	7:10	5:20
10/05/13	2,049,535	2.51	17:10	27:15
10/31/13	68,510	.072	2:00	19:25
11/17/13	1,240,573	1.87	20:05	13:50
12/14/13	1,199,222	1.26	21:55	17:10
12/21/13	7,651,767	6.75	44:20	21:20
04/02/14	685,021	0.7	19:50	19:25
04/24/14	66	0.29	11:20	6:40
04/27/14	3,640,326	2.49	27:20	22:35
05/09/14	517,187	1.1	4:20	14:25
05/14/14	1,275,677	1.41	21:35	21:45
06/02/14	2,259,142	0.28	14:14	8:35
06/04/14	3,192,566	2.66	16:25	3:40
06/24/14	369,208	0.66	3:30	4:05

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07/01/14	220,773	0.62	3:30	4:05
07/23/14	682,503	0.5	0:55	2:10
08/07/14	314,080	0.43	4:10	3:15
08/08/14	4,293,462	1.34	5:35	2:15
08/09/14	806,268	0.29	1:25	1:10
08/11/14	2,785,208	0.79	3:50	3:10
08/17/14	3,756,663	0.94	5:30	4:00
08/30/14	4,745,033	1.85	8:30	7:50
09/10/14	4,126,100	1.48	11:45	12:15
10/03/14	124,358	0.69	3:00	3:45
10/09/14	192,672	0.89	5:55	2:40
10/13/14	158,896	1.23	6:16	7:00
11/23/14	2,139	0.9	4:45	6:55
12/05/14	1,604	0.83	5:05	14:15
01/05/15	7,333	0.65	8:55	5:40
01/25/15	8,024	1.01	5:55	8:45
02/21/15	52,763	2.42 snow melt	28:20:00	10:55
03/03/15	49,139	2.96	13:25	18:05
06/17/15	19,667	0.88	17:35	16:55
06/18/15	2,281	0.29	0:30	0:45
6/19/15	71,350	1.01	11:05	2:35
10/27/15	11,884	2.26	14:30	8:35
11/06/15	3,118	0.73	2:05	2:55
11/17/15	9,413	1.78	11:50	8:55
11/18/15	12,552	1.69	15:05	6:10
03/07/16	24,483	0.35	3:05	3:00
04/08/16	49	0.5	1:45	9:50
04/27/16	12,299	0.63	8:20	10:05
04/30/16	25,809	0.92	12:00	4:40
05/09/16	5,687	1.49	13:50	16:00
05/12/16	6,312	0.7	8:25	4:20
05/12/16	38,604	0.46	11:15	2:45
05/17/16	278	0.76	0:30	1:25
05/25/16	4,948	1.03	9:30	5:40
05/27/16	13,139	0.77	13:55	2:15
06/01/16	21	0.17	0:15	0:10
07/01/16	59,312	0.56	2:30	2:00

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07/03/16	10,969	0.25	1:55	1:00
07/04/16	2,738,510	3	21:55	11:35
07/15/16	30,587	1.84	1:25	0:20
07/25/16	66,274	0.33	1:55	1:15
07/27/16	303,375	1.18	11:15	11:10
08/01/16	267,063	0.77	9:30	4:45
08/05/16	1,713,530	1.85	13:20	4:10
08/15/16	642,267	1.29	25:21	16:40
08/17/16	5,152,452	4.29	31:35	8:20
11/28/16	906,687	1.65	10:55	13:15
12/06/16	229,337	0.71	6:40	8:30
12/17/16	1,368,250	1.95	15:55	6:45
12/23/16	423,292	0.86	12:25	9:05
12/26/16	1,065,045	1.02	18:20	17:50
01/13/17	346,385	0.93	11:35	21:65
01/14/17	515,729	0.63	13:35	6:45
01/16/17	78,302	0.33	6:30	9:40
02/07/17	358,507	0.51	12:35	5:20
4/07/2017****	11,233	n/a	31:00	n/a
4/11/2017	1,257	0.51	7:50	1:40
4/21/2017	2,298,857	2.45	37:20	45:00
4/26/30/2017****	7,110,479	4.21	5.24	98.55
6/15/17	500	0.63	2:15	0:32
6/18/17	208,608	1.34	12:05	9:00
6/23/17	1,670,021	2.66	40:40:00	18:55
7/06/17	12,622	0.52	1:15	10:10
7/13/17	228,503	0.94	4:35	1:20
8/31/17	294,872	1.57	8:10	4:00
1/11/18	956,696	0.86	14:05	26:00:00
01/21/18	359,333	0.22	34:20:00	8:10
01/22/18	70,628	0.5	13:35	3:00
01/27/18	149,264	0.51	5:35	11:05
05/19/18	375	0.27	5:04	2:10
05/20/18	375	0.22	8:05	4:15
05/25/18	12,851	0.15	32:50:00	3:45
05/28/18	373,049	1.45	32:50:00	18:45
05/31/18	465,514	1.05	8:25	9:40

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06/12/18	196,128	0.92	5:30	7:15
06/15/18	88,573	0.27	3:15	0:55
06/25/18	975,889	1.52	14:55	14:30
06/26/18	1,022,694	1.34	21:00	11:25
06/28/18	242,187	0.59	8:40	3:50
07/15/18	278	0.7	1:30	9:00
08/05/18	200,712	0.98	5:35	1:00
08/08/18	118	0.42	1:10	7:55
08/09/18	132	0.18	0:55	1:30
09/06/18	214,583	0.34	4:25	5:10
09/08/18	948,632	2	12:15	17:05
09/22/18	839,910	2.4	17:15	6:15
09/24/18	1,055,948	1.75	17:25	12:25
10/31/18	4,204,715	4.9	38:00:00	30:40:00
11/05/18	881,281	1.1	20:20	5:30
12/14/18	2,252,611	2.48	48:05:00	63:05:00

* THIS DISCHARGE VOLUME WAS APPROXIMATED FROM PAST TREND DATA, BASED ON TOTAL RAINFALL, AS RECORDED AT THE METROPOLIS CSO OUTFALL. AN ASSUMED LIGHTNING STRIKE CAUSED POWER AND DATA RECORDING FAILURE AT THE CSO FLOW METER.