

Hemlock and Canadice Lakes – City of Rochester Watershed Production and Climate Data- 2019

Month	Average Lake Levels (ft)		Total Spill Volumes (MG)			Total Plant Withdrawal (MG)	Precipitation Totals (Inches)			Watershed Yield (MG)	Avg. Air Temp (°F)	
	Hemlock	Canadice	Hemlock Spills at 902.8 ft	Canadice into Hemlock Lake	Canadice into Hemlock Outlet		Hemlock	Canadice	Springwater		Min	Max
Jan	903.04	1098.97	1065.19	1001.18	0.00	1111.46	2.20	1.94	3.25	1920	13.7	29.7
Feb	903.03	1098.89	933.39	704.37	0.00	1086.88	2.03	1.76	2.10	2168	19.7	36.7
Mar	902.99	1098.98	809.66	583.40	0.00	1145.27	1.27	1.06	1.42	1941	21.2	42.3
Apr	903.03	1098.97	929.90	459.72	0.00	1068.04	2.59	1.02	3.09	2070	35.9	55.9
May	903.06	1098.92	1203.58	389.13	192.46	1098.96	4.18	3.96	2.33	2356	46.0	67.2
June	902.75	1098.90	382.28	131.03	282.23	1100.36	6.01	5.06	4.84	1779	53.9	75.0
July	902.16	1098.80	0.00	332.49	2.99	1220.87	3.57	3.88	1.95	296	63.0	82.1
Aug	900.79	1098.79	0.00	39.57	17.69	1064.89	6.46	4.64	4.79	488	58.5	77.5
Sep	899.51	1098.68	0.00	21.46	2.67	1110.63	2.53	2.40	2.04	63	54.1	73.2
Oct	898.33	1098.72	0.00	85.95	0.00	1082.81	3.98	4.03	4.89	581	43.9	63.4

Note: Watershed yield is the amount of precipitation that falls within the watershed that ultimately flows into both lakes. Average air temperature data collected from NOAA weather station located at the filtration plant.



Watershed/Project Updates:

1. Status of Bathymetric Survey on Hemlock Lake: Survey is complete. Data is being compiled in ArcGIS to generate the bathymetric map. We will have a high res map available by end of year. This will include biovolume, bottom hardness and depth survey results.
2. Lake levels are low currently. This works out well for us however because the concrete dike at north end of Hemlock lake is getting a facelift! Old, broken concrete is being removed and then re-poured by CP Ward.
3. Rob and John are currently working on the 2018 State of the Lakes Report to give a comprehensive overview of the Hemlock and Canadice watershed. Report aims to inform public about where our water comes from as well as what the city is doing to monitor and maintain the pristine nature of our watershed.
4. Hoping to get out at least one more time before lake ices over to perform lake profiling and nutrient sampling.