

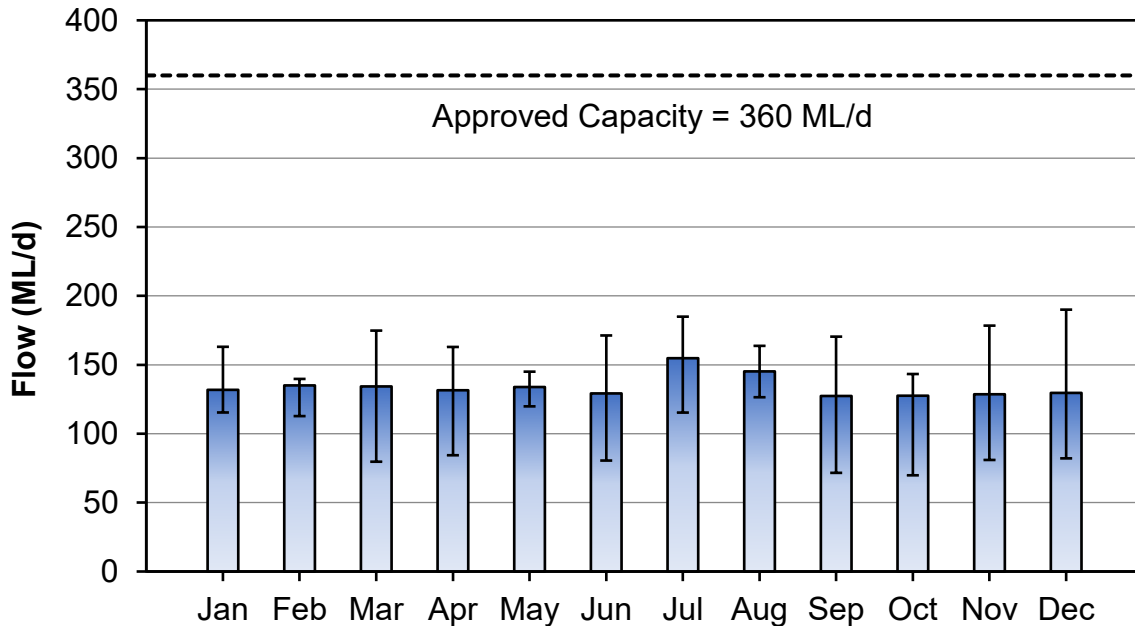
Document 2 - 2019 Water Flowrates in Ottawa's Municipal Water Systems

This supporting document reports on the amount of water supplied during the period of January 1st to December 31st, 2019. The flowrates are shown in the tables and graphs that follow for each of the eight municipal water systems. Average, minimum, and maximum daily flows (by month) are shown in comparison to the rated capacity for each water system. Seasonal water use patterns can be seen in the graphs, with higher usage typically occurring during summer months.

Britannia WPP – Annual Water Flow Rates for 2019

The Britannia Water Purification Plant treated and distributed an average of 134.1 Million Liters per day (ML/d), which represents 37% of the approved plant capacity of 360 ML/d. The daily flow rates ranged from a minimum of 69.8 ML/d to a maximum of 190 ML/d.

The table and graph below summarize the 2019 water production by month, highlighting the minimum, maximum and average daily flows.

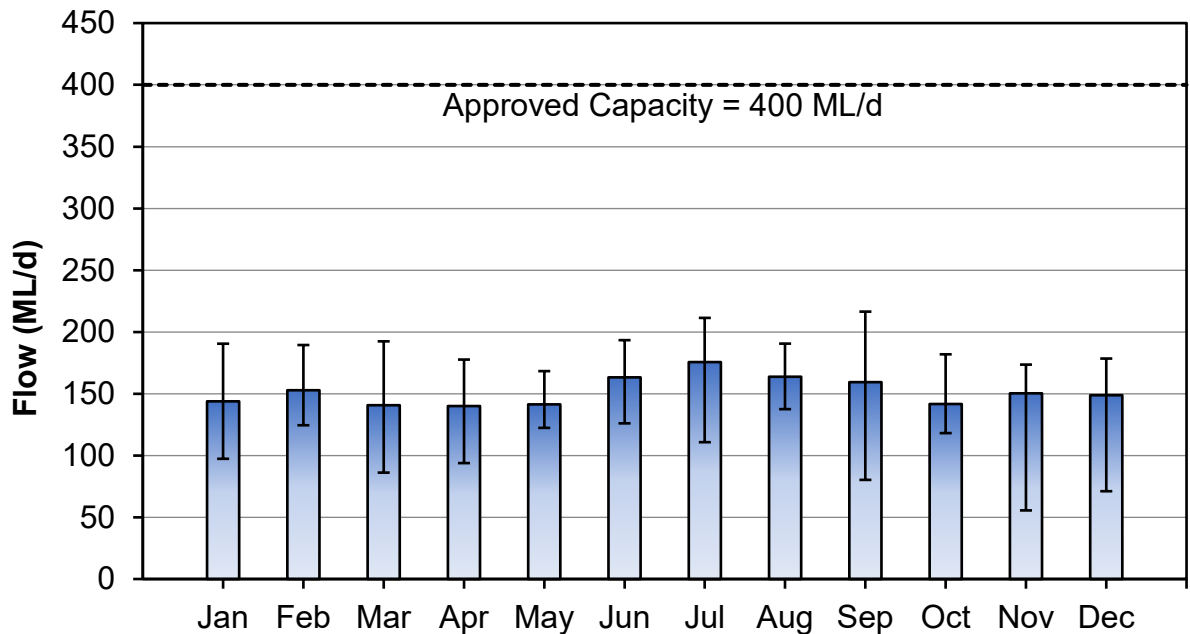


Month	Average Daily Flow Rate (ML/d)	Minimum Daily Flow Rate (ML/d)	Maximum Daily Flow Rate (ML/d)
January	131.8	115.4	163.1
February	135.1	112.8	139.8
March	134.3	79.7	174.8
April	131.5	84.4	163.0
May	133.9	119.9	145.0
June	129.2	80.5	171.3
July	154.8	115.3	185.0
August	145.2	126.5	163.8
September	127.4	71.6	170.4
October	127.6	69.8	143.3
November	128.6	81.0	178.4
December	129.6	82.1	190.0
Year End	134.1 (Average)	69.8 (Min. Day)	190.0 (Max. Day)

Lemieux WPP – Annual Water Flow Rates for 2019

The Lemieux Water Purification Plant treated and distributed an average of 151.8 Million Liters per day (ML/d), which represents 38% of the approved plant capacity of 400 ML/d. The daily flow rates ranged from a minimum of 55.5 ML/d to a maximum of 216.5 ML/d.

The table and graph below summarize the 2019 water production by month, highlighting the minimum, maximum and average daily flows.

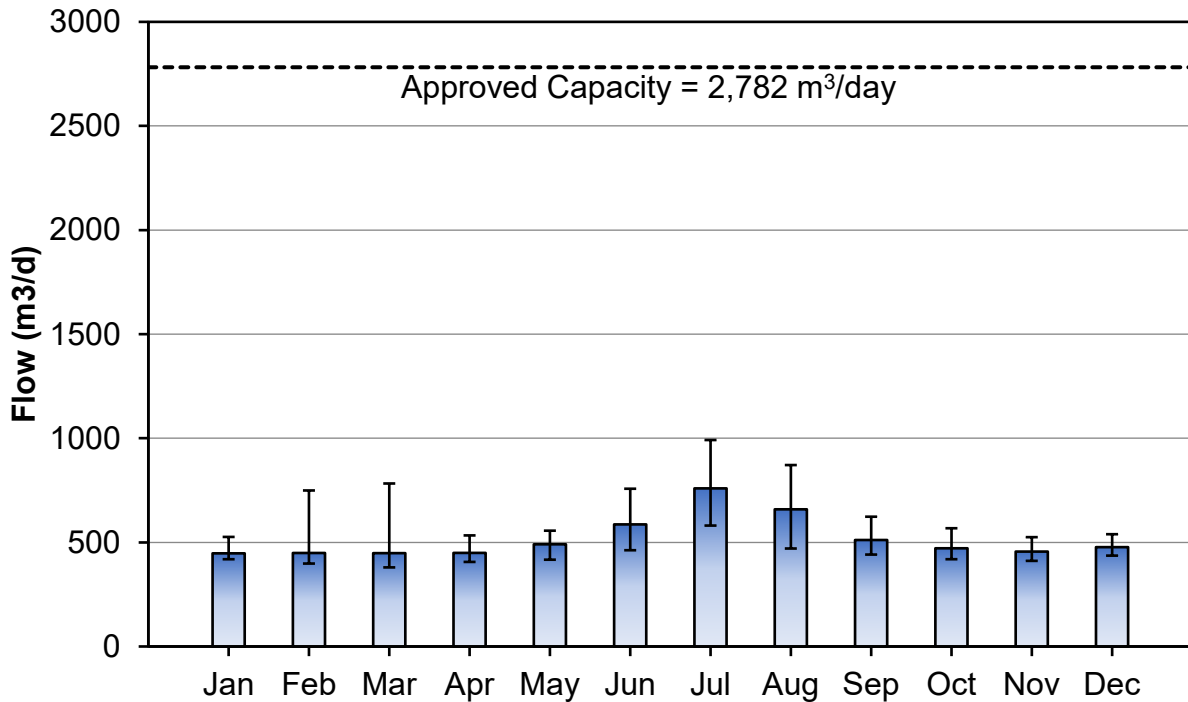


Month	Average Daily Flow Rate (ML/d)	Minimum Daily Flow Rate (ML/d)	Maximum Daily Flow Rate (ML/d)
January	143.8	97.3	190.5
February	152.8	124.5	189.4
March	140.7	86.1	192.4
April	140.0	93.8	177.6
May	141.4	122.4	168.3
June	163.2	126.0	193.4
July	175.6	110.8	211.4
August	163.7	137.5	190.6
September	159.4	80.3	216.5
October	141.7	118.1	181.9
November	150.3	55.5	173.6
December	148.8	71.1	178.5
Year End	151.8 (Average day)	55.5 (Min. day)	216.5 (Max. day)

Carp Well System – Annual Water Flow Rates for 2019

The Carp Well System treated and distributed an average of 518 m³/d, which represents 19% of the approved plant capacity of 2782 m³/d. The daily flow rates ranged from a minimum of 380 m³/d to a maximum of 992 m³/d.

The table and graph below summarize the 2019 water production by month, highlighting the minimum, maximum and average daily flows.

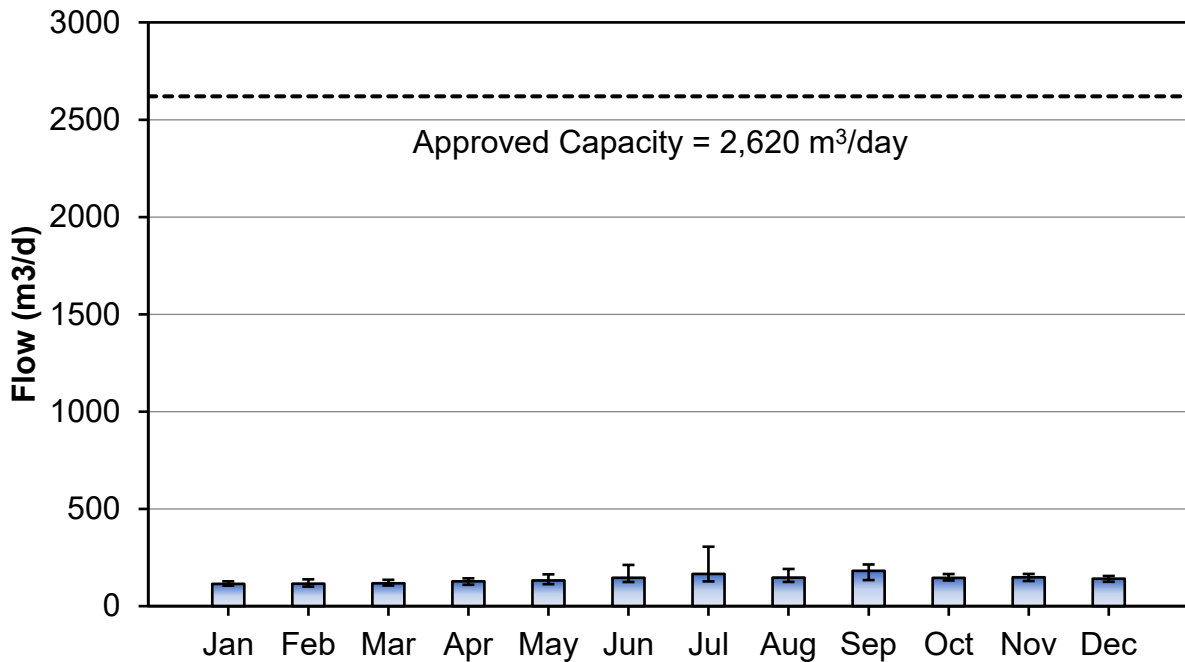


Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	447.4	419.1	526.2
February	449.1	398.3	749.3
March	448.3	379.9	782.9
April	449.5	406.2	533.5
May	490.8	416.9	556.2
June	586.4	462.3	757.7
July	759.4	580.8	991.6
August	658.8	470.6	871.4
September	511.4	441.5	623.3
October	471.7	419.2	567.9
November	455.8	411.3	525.1
December	477.1	436.4	539.2
Year End	517.9 (Average day)	379.9 (Min. day)	991.6 (Max. day)

Kings Park Well System – Annual Water Flow Rates for 2019

The Kings Park Well System (Richmond) treated and distributed an average of 140 m³/d, which represents 5.4% of the approved plant capacity of 2620 m³/d. The daily flow rates ranged from a minimum of 100 m³/d to a maximum of 305 m³/d.

The table and graph below summarize the 2019 water production by month, highlighting the minimum, maximum and average daily flows.

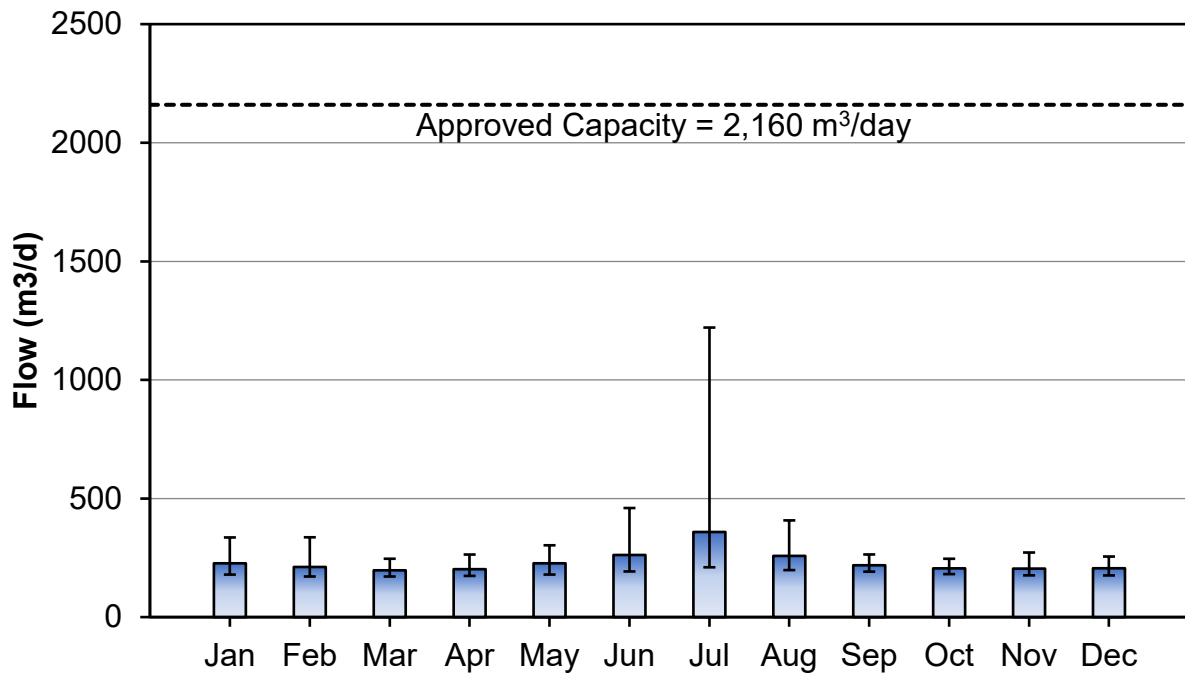


Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	114.4	105.3	127.5
February	115.4	100.6	137.8
March	117.5	106.1	135.3
April	127.5	109.8	142.9
May	132.1	112.9	163.4
June	145.8	124.1	211.7
July	165.6	127.1	305.4
August	146.7	124.5	191.0
September	181.6	134.0	214.1
October	145.3	132.0	164.9
November	148.3	129.2	165.5
December	141.1	125.1	155.0
Year End	140.2 (Average day)	100.6 (Min. day)	305.4 (Max. day)

Munster Well System – Annual Water Flow Rates for 2019

The Munster Well System treated and distributed an average of 232 m³/d, which represents 11% of the approved plant capacity of 2160 m³/d. The daily flow rates ranged from a minimum of 171 m³/d to a maximum of 1221 m³/d.

The table and graph below summarize the 2019 water production by month, highlighting the minimum, maximum and average daily flows.

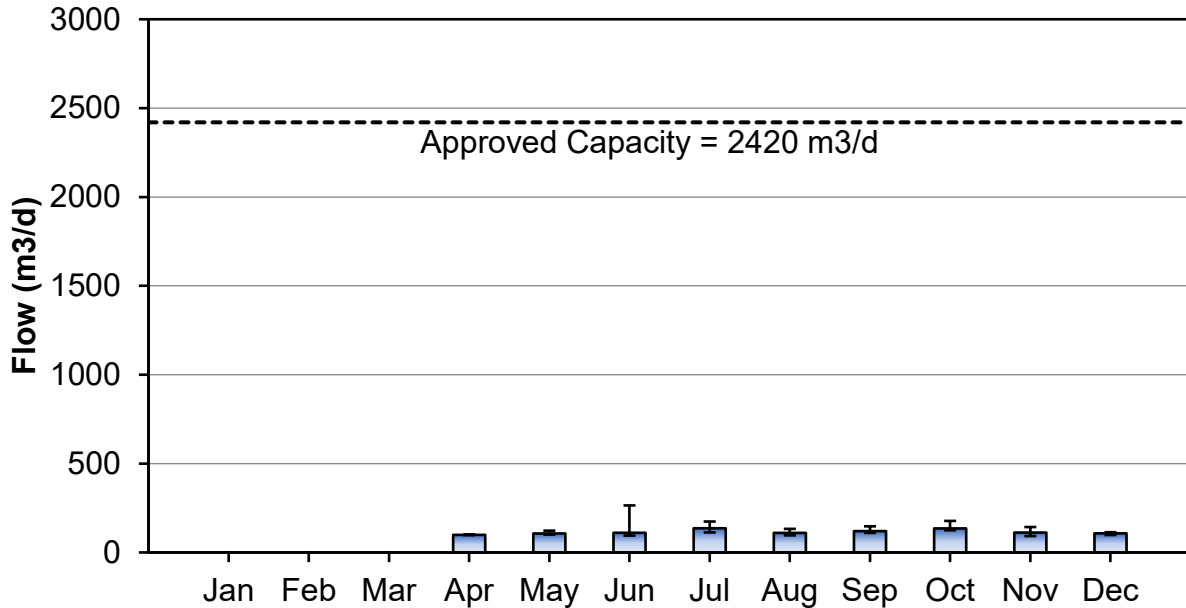


Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	226.9	179.3	335.8
February	211.4	171.2	336.6
March	197.3	171.2	246.1
April	202.1	173.8	263.8
May	226.9	179.4	302.8
June	261.9	192.5	459.9
July	358.9	210.1	1220.8
August	258.1	198.2	407.8
September	218.6	191.8	264.1
October	205.5	181.3	246.0
November	204.5	176.1	272.3
December	206.0	175.7	255.4
Year End	231.8 (Average day)	171.2 (Min. day)	1220.8 (Max. day)

Richmond West Well System – Annual Water Flow Rates for 2019

The Richmond West Well System treated and distributed an average of 115 m³/d, which represents 5% of the approved plant capacity of 2420 m³/d. The daily flow rates ranged from a minimum of 92 m³/d to a maximum of 265 m³/d.

The table and graph below summarize the 2019 water production by month, highlighting the minimum, maximum and average daily flows.

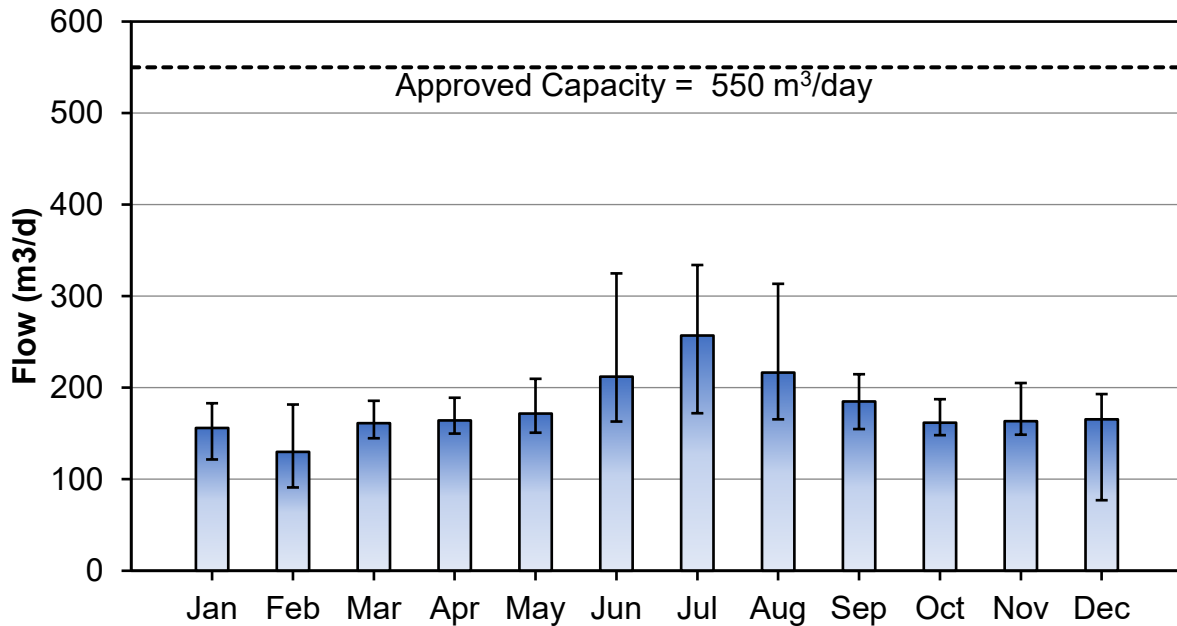


Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	-	-	-
February	-	-	-
March	-	-	-
April	98.9	97.6	100.2
May	106.8	100.6	122.6
June	110.7	94.9	264.5
July	136.1	112.7	174.0
August	110.1	96.3	132.7
September	120.0	110.2	147.2
October	135.2	124.9	177.4
November	111.9	92.3	143.0
December	107.5	98.2	113.8
Year End	115.3 (Average day)	92.3 (Min. day)	264.5 (Max. day)

Shadow Ridge Well System – Annual Water Flow Rates for 2019

The Shadow Ridge Well System treated and distributed an average of 179 m³/d, which represents 33% of the approved plant capacity of 550 m³/d. The daily flow rates ranged from a minimum of 77 m³/d to a maximum of 334 m³/d.

The table and graph below summarize the 2019 water production by month, highlighting the minimum, maximum and average daily flows.

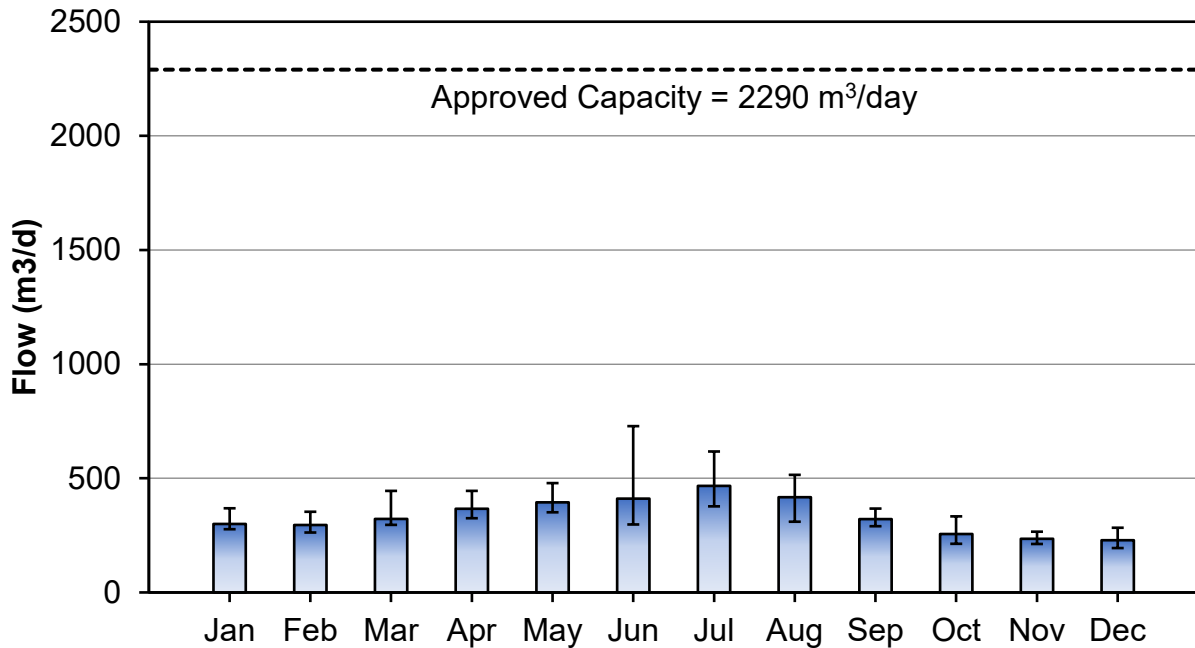


Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	156.0	121.6	183.0
February	129.9	91.0	181.6
March	161.2	144.8	185.7
April	164.2	149.9	189.0
May	171.7	150.8	209.7
June	212.1	163.0	324.9
July	257.0	172.1	334.0
August	216.5	165.4	313.5
September	185.0	154.8	214.7
October	161.8	148.1	187.4
November	163.4	148.6	205.1
December	165.5	77.1	193.0
Year End	179.1 (Average day)	77.1 (Min. day)	334.0 (Max. day)

Vars Well System – Annual Water Flow Rates for 2019

The Vars Well System treated and distributed an average of 335 m³/d, which represents 15% of the approved plant capacity of 2290 m³/d. The daily flow rates ranged from a minimum of 195 m³/d to a maximum of 729 m³/d.

The table and graph below summarize the 2019 water production by month, highlighting the minimum, maximum and average daily flows.



Month	Average Daily Flow Rate (m ³ /d)	Minimum Daily Flow Rate (m ³ /d)	Maximum Daily Flow Rate (m ³ /d)
January	300.0	277.0	368.7
February	295.5	262.5	353.4
March	322.0	296.0	444.8
April	366.5	325.1	444.9
May	394.6	351.1	478.9
June	410.9	297.7	728.5
July	466.8	377.1	617.4
August	417.1	309.8	515.1
September	321.3	290.1	367.3
October	255.9	213.1	333.2
November	235.0	212.3	266.1
December	228.8	194.5	283.4
Year End	334.9 (Average day)	194.5 (Min. day)	728.5 (Max. day)