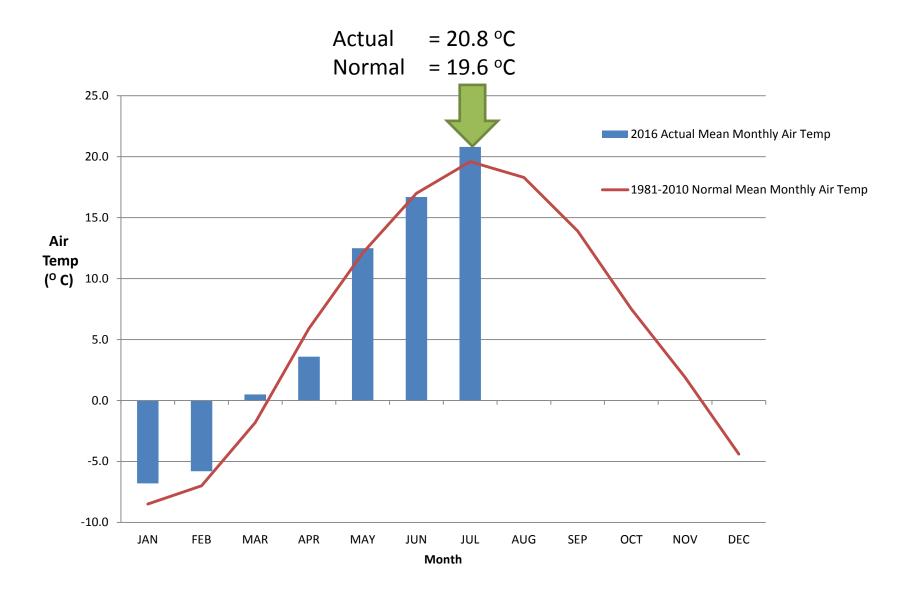


Otonabee Region Conservation Authority

Low Water Conditions Update

Prepared and Presented by: Gordon Earle Water Resources Technologist Date: August 17, 2016

Air Temperature



Days Above 30 ^oC (since 1950)

	MONTH	MAY	JUNE	JULY	AUG	SEPT	
YEAR							TOTAL
2016		1	5	10	9		25
2005		0	8	12	6	0	26
1988		1	6	11	11	0	29
1966		0	5	10	5	0	20
1955		0	3	14	10	1	28

Precipitation Indicators

Level I (Minor Drought)

18 month < 80% of historical average 3 month < 80% of historical average

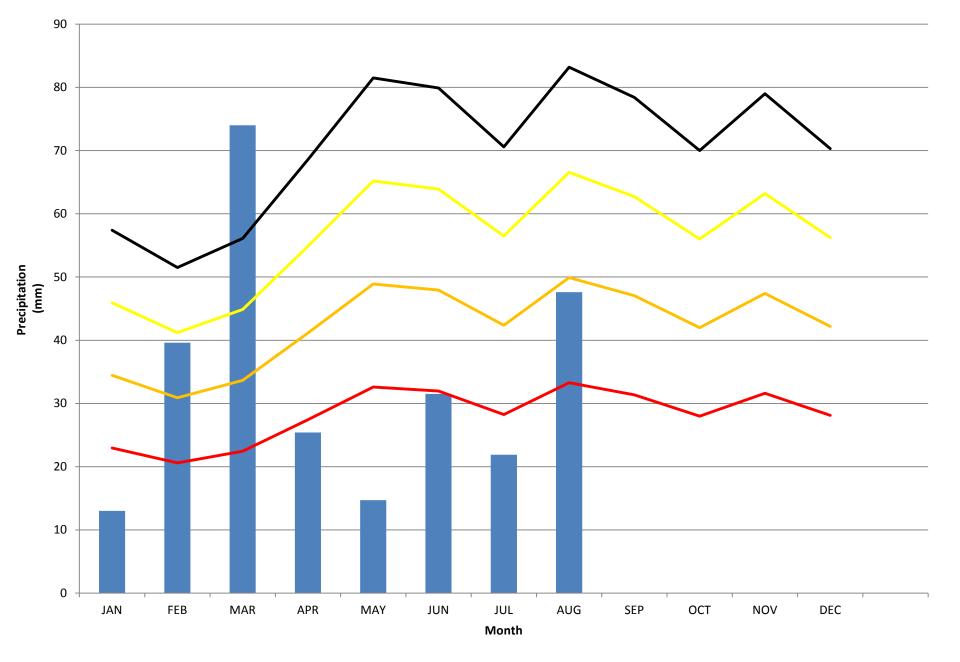
Level II (Moderate Drought)

18 month < 60% of historical average 3 month < 60% of historical average 1 month < 60% of historical average</pre>

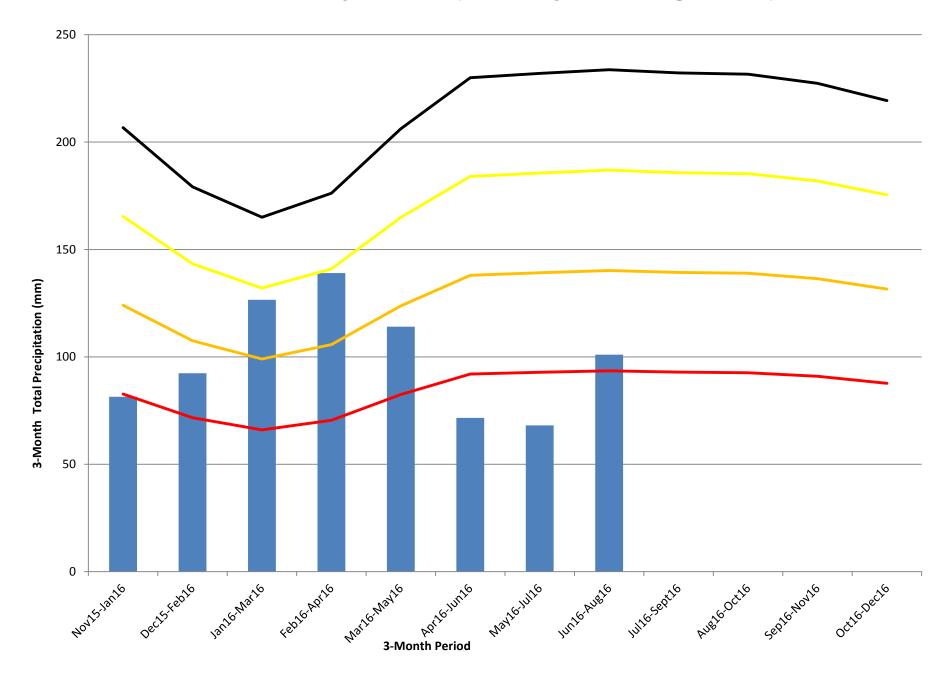
Level III (Severe Drought)

18 month < 40% of historical average 3 month < 40% of historical average 1 month < 40% of historical average</pre>

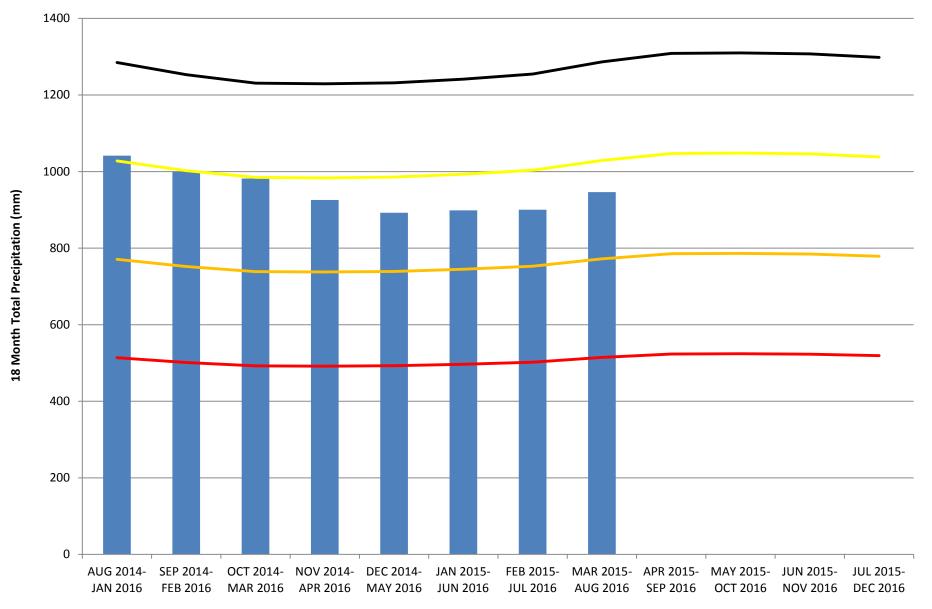
1 Month Precipitation Receipts (January 01 – Aug 16)



3-Month Precipitation (January 01 – August 16)







18 Month Period

Peterborough Precipitation Statistics (Jan 01 – Aug 16)

MONTH	1 Month % of Normal	Drought Level	3 Month % of Normal	Drought Level	18 Month % of Normal	Drought Level
January	23	3	39	3	81	0
February	77	1	52	2	80	0
March	132	0	77	1	80	0
April	37	3	79	1	75	1
May	18	3	55	2	72	1
June	39	3	31	3	72	1
July	31	3	29	3	72	1
August	57	2	43	2	73	1

Streamflow Thresholds

Based on Lowest Average Summer Month (LASM) Flow

Level I

Spring (Mar Apr May) : – monthly flow <100% of LASM flow **Other times:** – monthly flow < 70% of LASM flow

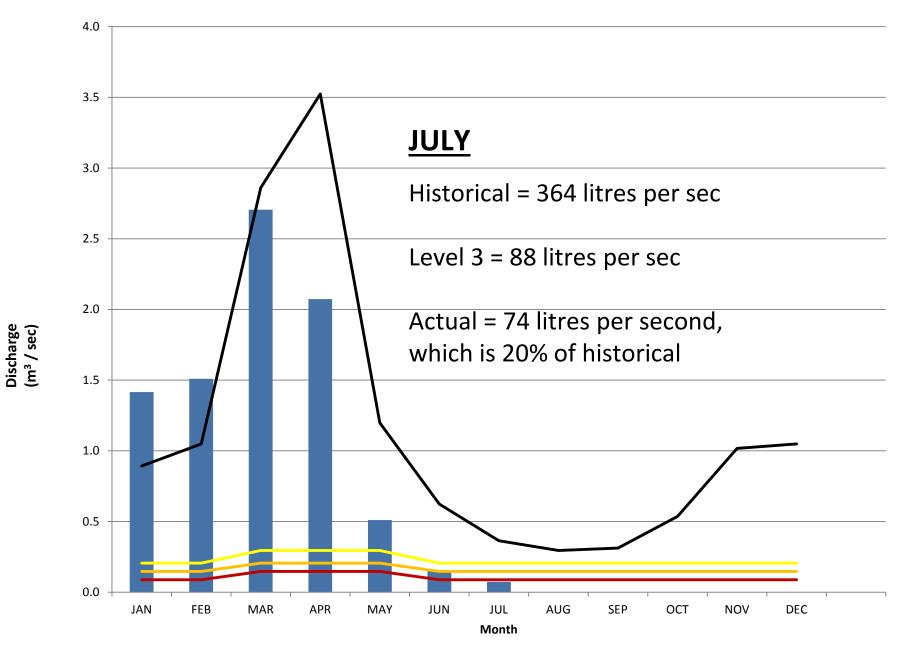
Level II

Spring (Apr May Jun): – monthly flow < 70% of LASM flow **Other times:** – monthly flow < 50% of LASM flow

Level III

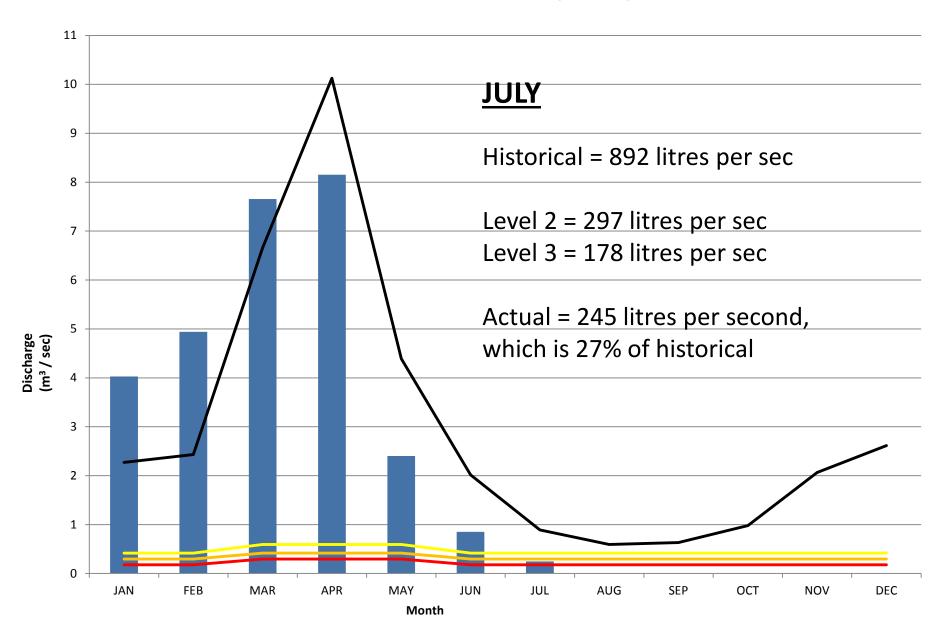
Spring (Apr May Jun):– monthly flow < 50% of LASM flow **Other times:** – monthly flow < 30% of LASM flow

Jackson Creek Flow (January – July)





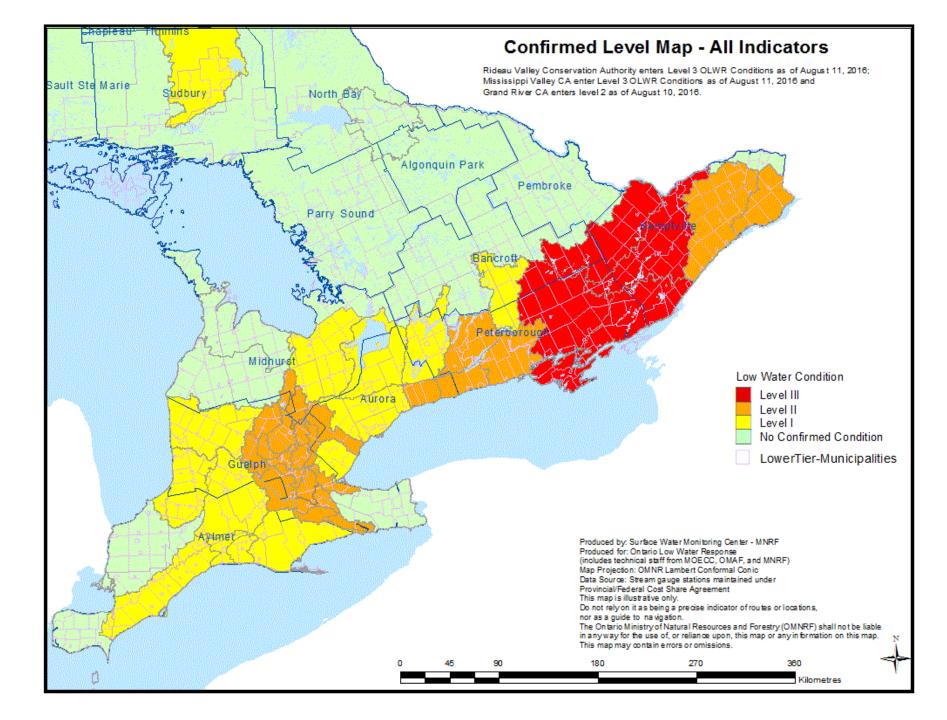
Ouse River Flows (January – July)





Jackson Creek and Ouse River 2016 Flow Statistics

	JACI		< colored and set of the set of t	OUSE RIVER			
MONTH	% HISTORICAL FLOW	% LASM FLOW	DROUGHT LEVEL	% HISTORICAL FLOW	% LASM FLOW	DROUGHT LEVEL	
January	159	480	0	177	679	0	
February	144	512	0	203	833	0	
March	95	917	0	114	1291	0	
April	59	703	0	80	1375	0	
May	43	173	0	55	405	0	
June	24	51	1	42	144	0	
July	21	25	3	27	41	2	



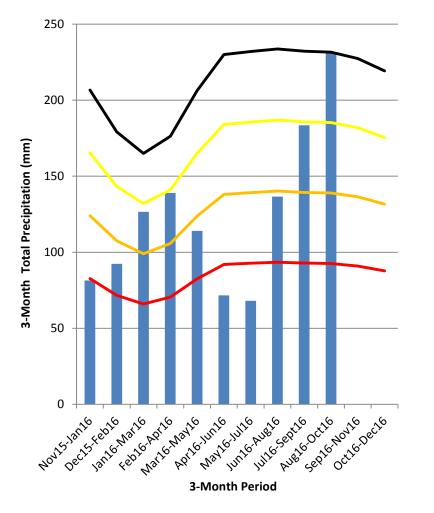
August Forecast

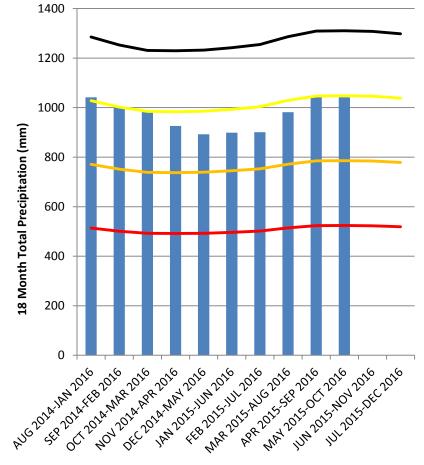
DAY	DATE	HIGH	LOW	RAIN
Wed	17	28	16	0
Thurs	18	28	15	0
Fri	19	30	18	0
Sat	20	30	19	2
Sun	21	25	13	21
Mon	22	23	12	0
Tues	23	25	14	0
Wed	24	27	14	0
Thurs	25	28	15	8
Fri	26	25	11	5
Sat	27	24	7	0
Sun	28	25	8	0
Mon	29	23	9	1
Tues	30	24	11	1
Wed	31	23	9	0

What Happens if Rainfall Receipts are Normal in August, September & October?

3-Month Indicator Chart

18-Month Indicator Chart





18 Month Period

