

July 2014:

Daytime highs and overnight lows fell below normal temperatures in July. As a result, the accumulated base 10 °C growing degree days fell below normal. The season accumulation of growing degree days continues to fall behind the 2012 and 2013 seasons and normal accumulation for the appellation. July rainfall was well above normal across Niagara West and Niagara East. Niagara West averaged 187 % of normal rainfall for July and Niagara East averaged 186 % of normal rainfall for July.

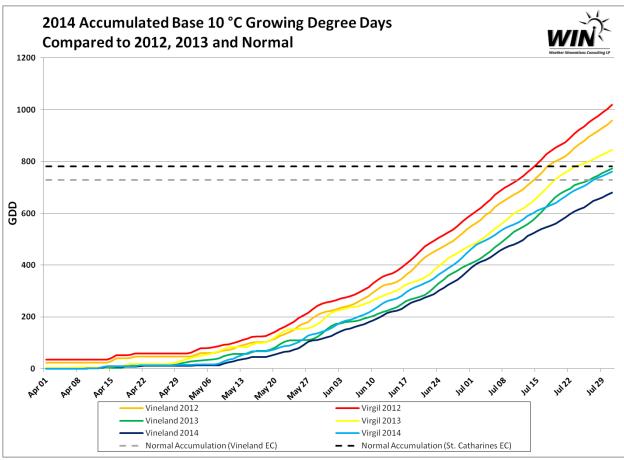


Figure 1: Growing Degree Days



Winona 11.3 19.0 25.4 26.4		Apr	May	June	July	Aug				
Grimsby 11.3 18.8 24.9 24.7 West Lincoln 11.6 18.7 24.9 24.9 Lincoln Fly Road 11.6 18.8 24.8 25.0 Beamsville 12.0 19.2 25.1 25.5 Lincoln Hwy 8 11.3 18.9 24.8 25.9 Lincoln Lakeshore 11.3 18.7 24.7 26.8 Vineland Cherry Ave. 12.1 19.0 24.5 25.3 Vineland Escarpment 12.1 19.1 25.2 25.2 Jordan Escarpment 12.5 19.0 25.0 24.6 Jordan Hwy 8 12.7 19.6 25.7 25.5 Jordan Harbour 11.8 18.6 24.3 25.4	Normal (Vineland EC)	11.1	17.8	23.1	26.5	25.1	1 20.9 14.			
West Lincoln 11.6 18.7 24.9 24.9 Lincoln Fly Road 11.6 18.8 24.8 25.0 Beamsville 12.0 19.2 25.1 25.5 Lincoln Hwy 8 11.3 18.9 24.8 25.9 Lincoln Lakeshore 11.3 18.7 24.7 26.8 Vineland Cherry Ave. 12.1 19.0 24.5 25.3 Vineland Escarpment 12.1 19.1 25.2 25.2 Jordan Escarpment 12.5 19.0 25.0 24.6 Jordan Hwy 8 12.7 19.6 25.7 25.5 Jordan Harbour 11.8 18.6 24.3 25.4	Winona	11.3	19.0	25.4	26.4					
Lincoln Fly Road 11.6 18.8 24.8 25.0 Beamsville 12.0 19.2 25.1 25.5 Lincoln Hwy 8 11.3 18.9 24.8 25.9 Lincoln Lakeshore 11.3 18.7 24.7 26.8 Vineland Cherry Ave. 12.1 19.0 24.5 25.3 Vineland Escarpment 12.1 19.1 25.2 25.2 Jordan Escarpment 12.5 19.0 25.0 24.6 Jordan Hwy 8 12.7 19.6 25.7 25.5 Jordan Harbour 11.8 18.6 24.3 25.4	Grimsby	11.3	18.8	24.9	24.7					
Beamsville 12.0 19.2 25.1 25.5 Lincoln Hwy 8 11.3 18.9 24.8 25.9 Lincoln Lakeshore 11.3 18.7 24.7 26.8 Vineland Cherry Ave. 12.1 19.0 24.5 25.3 Vineland Escarpment 12.1 19.1 25.2 25.2 Jordan Escarpment 12.5 19.0 25.0 24.6 Jordan Hwy 8 12.7 19.6 25.7 25.5 Jordan Harbour 11.8 18.6 24.3 25.4	West Lincoln	11.6	18.7	24.9	24.9					
Lincoln Hwy 8 11.3 18.9 24.8 25.9 Lincoln Lakeshore 11.3 18.7 24.7 26.8 Vineland Cherry Ave. 12.1 19.0 24.5 25.3 Vineland Escarpment 12.1 19.1 25.2 25.2 Jordan Escarpment 12.5 19.0 25.0 24.6 Jordan Hwy 8 12.7 19.6 25.7 25.5 Jordan Harbour 11.8 18.6 24.3 25.4	Lincoln Fly Road	11.6	18.8	24.8	25.0					
Lincoln Lakeshore 11.3 18.7 24.7 26.8 Vineland Cherry Ave. 12.1 19.0 24.5 25.3 Vineland Escarpment 12.1 19.1 25.2 25.2 Jordan Escarpment 12.5 19.0 25.0 24.6 Jordan Hwy 8 12.7 19.6 25.7 25.5 Jordan Harbour 11.8 18.6 24.3 25.4	Beamsville	12.0	19.2	25.1	25.5					
Vineland Cherry Ave. 12.1 19.0 24.5 25.3 Vineland Escarpment 12.1 19.1 25.2 25.2 Jordan Escarpment 12.5 19.0 25.0 24.6 Jordan Hwy 8 12.7 19.6 25.7 25.5 Jordan Harbour 11.8 18.6 24.3 25.4	Lincoln Hwy 8	11.3	18.9	24.8	25.9					
Vineland Escarpment 12.1 19.1 25.2 25.2 Jordan Escarpment 12.5 19.0 25.0 24.6 Jordan Hwy 8 12.7 19.6 25.7 25.5 Jordan Harbour 11.8 18.6 24.3 25.4	Lincoln Lakeshore	11.3	18.7	24.7	26.8					
Jordan Escarpment 12.5 19.0 25.0 24.6 Jordan Hwy 8 12.7 19.6 25.7 25.5 Jordan Harbour 11.8 18.6 24.3 25.4	Vineland Cherry Ave.	12.1	19.0	24.5	25.3					
Jordan Hwy 8 12.7 19.6 25.7 25.5 Jordan Harbour 11.8 18.6 24.3 25.4	Vineland Escarpment	12.1	19.1	25.2	25.2					
Jordan Harbour 11.8 18.6 24.3 25.4	Jordan Escarpment	12.5	19.0	25.0	24.6					
	Jordan Hwy 8	12.7	19.6	25.7	25.5					
	Jordan Harbour	11.8	18.6	24.3	25.4					
Rockway 12.7 19.3 25.5 25.0	Rockway	12.7	19.3	25.5	25.0					

Figure 2: Niagara West - Maximum Temperatures

	Apr	May	June	July	Aug	Sept	Oct
Normal (St. Catharines EC)	12.2	19.4	24.3	27.1	25.9	21.5	14.9
St. Catharines Glass Ave	12.7	19.4	25.7	25.8			
St. Catharines Third Ave	13.0	19.8	25.8	25.6			
St. Catharines Fifth St	13.0	19.5	25.9	25.7			
West St. Catharines	13.4	20.2	26.4	26.0			
Niagara College	13.1	19.6	26.1	25.4			
St. David's Bench	13.3	20.0	26.5	26.5			
Niagara Airport	13.1	20.2	26.3	26.2			
Virgil	13.2	20.2	25.9	25.6			
Virgil East	13.1	19.9	25.8	25.5			
NOTL Irvine Road	12.4	19.4	26.0	25.8			
Lakeshore	11.9	19.1	24.9	25.5			
Parkway	12.7	19.9	25.5	25.2			
Queenston	14.1	21.0	27.0	25.7			

Figure 3: Niagara East - Maximum Temperatures



Normal (Vineland EC) 2.3 7.5 13.1 16.9 16.3 12.5 6.4 Winona 0.4 7.7 12.4 14.3 Grimsby -0.2 6.7 11.8 13.0 West Lincoln 0.7 7.5 13.1 13.2 Lincoln Fly Road 1.0 7.7 13.8 13.4 <t< th=""><th></th><th>Apr</th><th>May</th><th>June</th><th>July</th><th>Aug</th><th colspan="4">- ·</th></t<>		Apr	May	June	July	Aug	- ·			
Grimsby -0.2 6.7 11.8 13.0 West Lincoln 0.7 7.5 13.1 13.2 Lincoln Fly Road 1.0 7.7 13.8 13.4 Beamsville 1.2 8.2 13.6 14.7 Lincoln Hwy 8 0.8 7.7 13.2 14.7 Lincoln Lakeshore 1.2 7.7 13.2 14.7 Vineland Cherry Ave. 0.3 7.1 12.4 14.4 Vineland Escarpment 1.2 7.9 13.9 14.8 Jordan Escarpment 1.2 7.6 13.7 14.2 Jordan Hwy 8 1.0 8.1 13.5 14.8 Jordan Harbour 0.9 7.6 13.0 14.6	Normal (Vineland EC)	2.3	7.5	13.1	16.9	16.3	12.5 6.4			
West Lincoln 0.7 7.5 13.1 13.2 Lincoln Fly Road 1.0 7.7 13.8 13.4 Beamsville 1.2 8.2 13.6 14.7 Lincoln Hwy 8 0.8 7.7 13.2 14.7 Lincoln Lakeshore 1.2 7.7 13.2 14.7 Vineland Cherry Ave. 0.3 7.1 12.4 14.4 Vineland Escarpment 1.2 7.9 13.9 14.8 Jordan Escarpment 1.2 7.6 13.7 14.2 Jordan Hwy 8 1.0 8.1 13.5 14.8 Jordan Harbour 0.9 7.6 13.0 14.6	Winona	0.4	7.7	12.4	14.3					
Lincoln Fly Road 1.0 7.7 13.8 13.4 Beamsville 1.2 8.2 13.6 14.7 Lincoln Hwy 8 0.8 7.7 13.2 14.7 Lincoln Lakeshore 1.2 7.7 13.2 14.7 Vineland Cherry Ave. 0.3 7.1 12.4 14.4 Vineland Escarpment 1.2 7.9 13.9 14.8 Jordan Escarpment 1.2 7.6 13.7 14.2 Jordan Hwy 8 1.0 8.1 13.5 14.8 Jordan Harbour 0.9 7.6 13.0 14.6	Grimsby	-0.2	6.7	11.8	13.0					
Beamsville 1.2 8.2 13.6 14.7 Lincoln Hwy 8 0.8 7.7 13.2 14.7 Lincoln Lakeshore 1.2 7.7 13.2 14.7 Vineland Cherry Ave. 0.3 7.1 12.4 14.4 Vineland Escarpment 1.2 7.9 13.9 14.8 Jordan Escarpment 1.2 7.6 13.7 14.2 Jordan Hwy 8 1.0 8.1 13.5 14.8 Jordan Harbour 0.9 7.6 13.0 14.6	West Lincoln	0.7	7.5	13.1	13.2					
Lincoln Hwy 8 0.8 7.7 13.2 14.7 Lincoln Lakeshore 1.2 7.7 13.2 14.7 Vineland Cherry Ave. 0.3 7.1 12.4 14.4 Vineland Escarpment 1.2 7.9 13.9 14.8 Jordan Escarpment 1.2 7.6 13.7 14.2 Jordan Hwy 8 1.0 8.1 13.5 14.8 Jordan Harbour 0.9 7.6 13.0 14.6	Lincoln Fly Road	1.0	7.7	13.8	13.4					
Lincoln Lakeshore 1.2 7.7 13.2 14.7 Vineland Cherry Ave. 0.3 7.1 12.4 14.4 Vineland Escarpment 1.2 7.9 13.9 14.8 Jordan Escarpment 1.2 7.6 13.7 14.2 Jordan Hwy 8 1.0 8.1 13.5 14.8 Jordan Harbour 0.9 7.6 13.0 14.6	Beamsville	1.2	8.2	13.6	14.7					
Vineland Cherry Ave. 0.3 7.1 12.4 14.4 Vineland Escarpment 1.2 7.9 13.9 14.8 Jordan Escarpment 1.2 7.6 13.7 14.2 Jordan Hwy 8 1.0 8.1 13.5 14.8 Jordan Harbour 0.9 7.6 13.0 14.6	Lincoln Hwy 8	0.8	7.7	13.2	14.7					
Vineland Escarpment 1.2 7.9 13.9 14.8 Jordan Escarpment 1.2 7.6 13.7 14.2 Jordan Hwy 8 1.0 8.1 13.5 14.8 Jordan Harbour 0.9 7.6 13.0 14.6	Lincoln Lakeshore	1.2	7.7	13.2	14.7					
Jordan Escarpment 1.2 7.6 13.7 14.2 Jordan Hwy 8 1.0 8.1 13.5 14.8 Jordan Harbour 0.9 7.6 13.0 14.6	Vineland Cherry Ave.	0.3	7.1	12.4	14.4					
Jordan Hwy 8 1.0 8.1 13.5 14.8 Jordan Harbour 0.9 7.6 13.0 14.6	Vineland Escarpment	1.2	7.9	13.9	14.8					
Jordan Harbour 0.9 7.6 13.0 14.6	Jordan Escarpment	1.2	7.6	13.7	14.2					
	Jordan Hwy 8	1.0	8.1	13.5	14.8					
Rockway 0.2 7.2 12.6 13.8	Jordan Harbour	0.9	7.6	13.0	14.6					
	Rockway	0.2	7.2	12.6	13.8					

Figure 4: Niagara West - Minimum Temperatures

Niagara East: Average Daily Minimums Compared to Normal (2014) Apr May June July Aug Sept Oct Normal (St. Catharines EC) 16.4 15.7 11.6 2.1 7.8 13.3 5.6 St. Catharines Glass Ave 0.9 7.4 13.0 14.5 St. Catharines Third Ave 14.6 0.3 7.0 13.0 St. Catharines Fifth St 0.5 7.5 13.2 14.0 West St. Catharines 0.9 7.7 13.2 13.7 Niagara College 1.5 8.6 14.2 14.9 1.0 St. David's Bench 8.4 14.2 13.7 Niagara Airport 1.0 8.1 13.8 14.9 Virgil 0.9 14.0 14.8 8.0 Virgil East 0.9 7.9 13.2 14.0 **NOTL Irvine Road** 1.3 8.0 13.6 15.3 1.3 7.8 13.3 14.9 Lakeshore 14.9 Parkway 1.3 8.2 13.7 Queenston 1.1 8.5 13.7 14.7 Normal Above-normal Below-normal

Figure 5: Niagara East - Minimum Temperatures



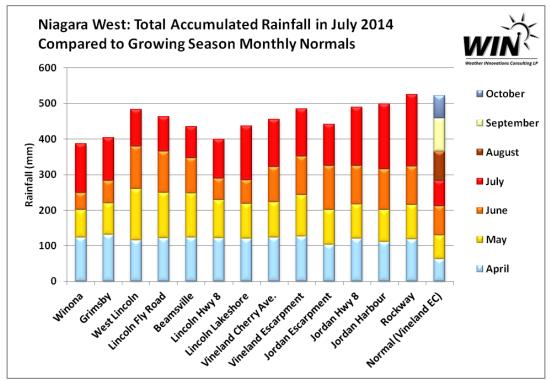


Figure 6: Niagara West – Rainfall

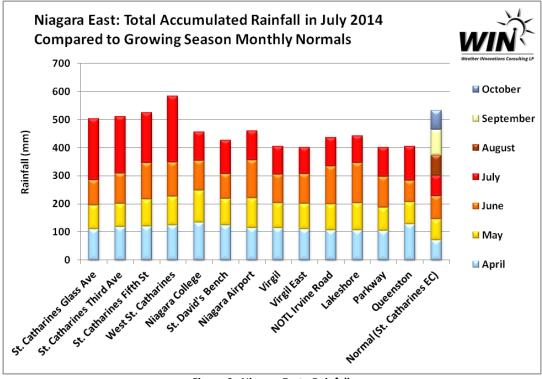


Figure 6: Niagara East - Rainfall