

Weather Innovations Incorporated PO Box 23005, Chatham, ON NTL 0B1 Ph: 519-352-5334

Niagara - June 2011:

The month of June was characterized by warmer and drier conditions; a drastic change following an extremely wet spring. Accumulated growing degree days surpassed normal values (Fig 1), as average temperatures changed from near normal in April and May to above normal in June. In fact, both daytime and nighttime June temperatures were above normal (Fig 2-5). Average daily maximum temperatures were approximately 1.5 ℃ above normal, while average daily minimum temperatures were nearly 1 ℃ above normal. This resulted in a steady increase in growing degree days throughout the month. Accumulated growing degree days also continue to surpass totals in comparison to the same point in time during the 2009 growing season.

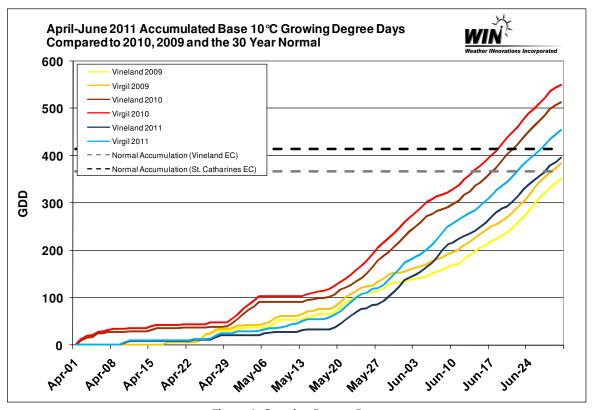


Figure 1: Growing Degree Days

Significantly wet conditions throughout April and May changed to dry conditions throughout June. Rainfall totals for the month were below normal (Fig 6 and 7). All stations received between 57% and 91% of normal rainfall for the month. The number of days with rain was also below normal for the month. The below normal precipitation combined with above normal temperatures is quickly depleting soil moisture at the 10-30cm soil depths. The extremely wet spring is quickly fading from memory and should be replaced by thoughts of potential irrigation requirements for grape and tender fruit crops as the beginning of July continues to be hot and dry.



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	Apr	May	June	July	Aug	Sept	Oct
Normal (Vineland EC)	11.1	17.8	23.1	26.5	25.1	20.9	14.1
Winona	10.8	17.4	24.7				
Grimsby	10.7	17.5	24.8				
West Lincoln	10.8	17.8	24.3				
Lincoln Fly Road	10.8	17.7	24.6				
Beamsville	11.4	17.8	24.6				
Lincoln Hwy 8	11.0	17.3	24.6				
Lincoln Lakeshore	11.0	17.1	24.7				
Vineland Cherry Ave.	11.4	17.7	24.5				
Vineland Escarpment	11.4	18.0	24.5				
Jordan Escarpment	11.5	18.3	24.7				
Jordan Hwy 8	12.1	18.6	25.1				
Jordan Harbour	11.2	17.3	24.2				
Rockway	11.9	18.5	24.8				

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	12.0	18.5	25.4				
St. Catharines Third Ave	12.0	18.2	25.8				
St. Catharines Fifth St	12.2	18.9	25.4				
West St. Catharines	12.6	19.4	26.0				
Niagara College	12.6	19.3	26.2				
St. David's Bench	12.6	19.4	25.9				
Niagara Airport	12.3	19.2	25.9				
Virgil	12.6	19.2	25.5				
Virgil East	12.5	18.7	25.1				
NOTL Irvine Road	11.7	18.2	25.1				
Lakeshore	11.3	17.5	24.8				
Parkway	12.4	18.8	25.4				
Queenston	13.4	20.0	26.1				

Figure 3: Niagara East - Maximum Temperatures



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	Apr	May	June	July	Aug	Sept	Oct
Normal (Vineland EC)	2.3	7.5	13.1	16.9	16.3	12.5	6.4
Winona	2.0	8.0	13.6				
Grimsby	1.4	8.0	12.6				
West Lincoln	1.8	8.3	13.4				
Lincoln Fly Road	2.1	8.3	13.6				
Beamsville	2.5	8.8	14.4				
Lincoln Hwy 8	2.1	8.3	14.0				
Lincoln Lakeshore	2.3	8.2	14.0				
Vineland Cherry Ave.	1.9	8.1	13.6				
Vineland Escarpment	2.2	8.6	14.1				
Jordan Escarpment	2.1	8.8	13.7				
Jordan Hwy 8	2.4	8.8	14.2				
Jordan Harbour	2.0	8.1	13.8				
Rockway	2.0	8.5	13.7				

Figure 4: Niagara West - Minimum Temperatures

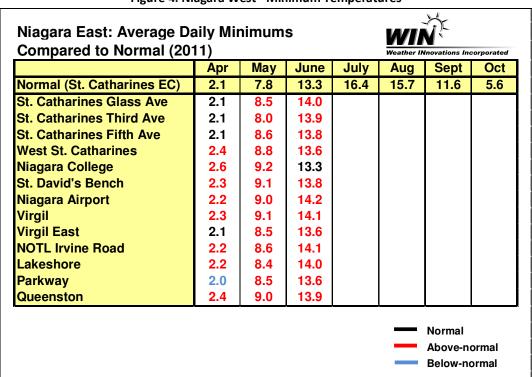


Figure 5: Niagara East - Minimum Temperatures



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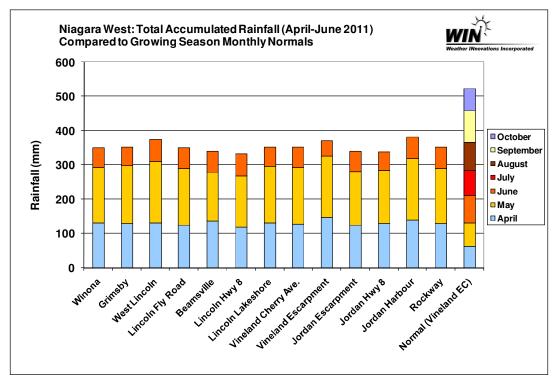


Figure 6: Niagara West - Monthly Rainfall

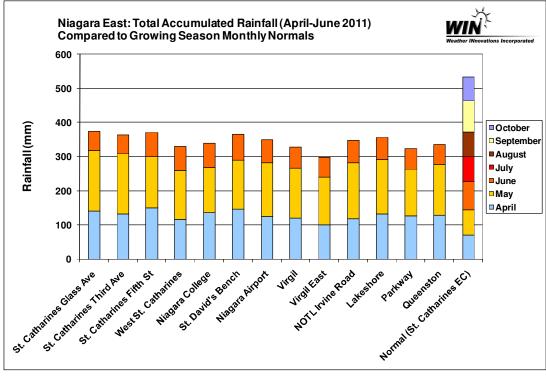


Figure 7: Niagara East - Monthly Rainfall