

MARITIME CANADA CLIMATE SUMMARY

June 2021

Warmest June on Record for Halifax, Greenwood, St John – Many Daily Records Set

Two very warm and humid periods early and late in the month resulted in June 2021 being in the top five warmest on record for several locations across the Maritimes. It was the warmest June on record in the Halifax area, Greenwood and St John. Mean daily temperatures ranged from 1.5 to 3 C above normal across almost all of the region. Except for NW NB, it was also a dry month. Precipitation totals were well below normal especially in the agricultural regions of SE NB, the Northumberland Shore of NS, Cape Breton and Central PEI. In Moncton it was the 3rd driest June on record. Sea surface temperatures continued their above normal trend with anomalies exceeding +5 C along most of the coast of all 3 Provinces. Despite the lack of rainfall, the Forest Fire Weather Index remained low for most of the region.

The Warmest (°C)

New Brunswick	
Kouchibouguac	35.2
Nova Scotia	
Kejimikujik	33.5
Prince Edward Island	
Summerside	32.7

The Coldest (°C)

New Brunswick	
Edmundston	-1.2
Nova Scotia	
Collegetown	-1.9
Prince Edward Island	
Maple Plains .	-1.6

The Wettest (Total mm)

New Brunswick	
Kouchibouguac	100.2
Nova Scotia	
Cheticamp Highlands	121.1
Prince Edward Island	
Harrington	83.2

The Capital Stats

Station Name	Mean Temperature (°C)			Extremes	
	Monthly Mean	Normal Mean	Diff from Normal	Max (Date)	Min (Date)
Charlottetown Airport	17.4	14.5	2.9	30.6 (8)	3.4 (13/10)
Halifax Stanfield Airport.	17.9	15.1	2.8	32.5 (8)	4.3 (10)
Fredericton	18.5	16.4	2.9	34.6 (7)	2.0 (11)

Station Name	Total Precipitation			Snowfall	
	Monthly Total (mm)	Normal Total (mm)	Percent Normal	Total (cm)	Max SOG (Date)
Charlottetown Airport	66.8	98.8	68	NA	NA
Halifax Stanfield Airport	72.4	96.2	75	NA	NA
Fredericton	56.6	86.3	68	NA	NA

Daily Temperature Records

June began and ended with periods of record-breaking heat. In the period 1st-8th 101 daily high records were set across the region. On 7/8th June, 84 records were set - many by several degrees. The end of the month from 28-30th was not quite so prolific with 11 new records set in the 3 Provinces. In total NS set 68 new daily maximums, NB 55 and PEI 13. However, of concern to gardeners, the nights of 10/11th saw 14 record low minimum records with the temperature dipping below freezing in parts of all three Provinces.

Other Significant Events (information provided by Climate Services, ECCC)

June 5-11: As already mentioned in the Daily Record above, a warm and humid southwesterly flow developed from June 5-8 bringing unusually warm temperatures across the Maritimes. Dozens of new daily temperature records were set with maximum temperatures reaching the 30-35C range. Thunderstorms developed over the Maritimes June 8 to 9. A cold front brought much cooler air to the region resulting in frost and below zero temperatures on the 10th and 11th.

[School closures continue as weather forecast to stay hot and humid | CBC News](#)
[Heat records broken on P.E.I. Monday | CBC News](#)

June 15-16: A low-pressure system brought some heavy rain to parts of the region as Tropical Storm Bill passed by well to the south of NS. The heaviest rain affected PEI and NS, where totals at some locations reached the 40 to 50 mm range.

June 19: A cold front associated with a low moved into NB from Quebec. It triggered some severe thunderstorms with heavy rain with localized flooding and large hail (up to 25 mm) across northwest NB.

June 26-30: A southwesterly flow brought a warm and humid air mass, which persisted across most of the Maritimes. Dozens of new daily temperature records were set, especially record high minimums. Overnight lows remained in the 17-22C range with highs reaching the 30 to 34C range.

June 30: Some severe thunderstorms giving high winds and heavy downpours developed across the southern Maritimes as a low-pressure system formed in the area. In Stewiacke NS, a barn was destroyed and trees uprooted due to high winds. Several thousand NS Power customers lost power. In NB the roof of a school in Florenceville-Bristol was damaged by high winds along with snapped trees. Snapped trees due to these storms were also reported in the Fredericton Junction/Tracy area. These events are likely due to straight-line wind damage from the severe storms.

[Severe thunderstorm leaves path of destruction in the Maritimes | CTV News](#)

Compiled by Peter J. Lewis with data and information provided by Client Service Operations Atlantic, Meteorological Service of Canada Environment and Climate Change Canada / Government of Canada

Other CMOS News

Webinar Series: Climate Literacy and Energy Awareness Network (CLEAN) has an ongoing webinar series that is great for all ages. You can register for these webinars, and watch past ones, [here](#).

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