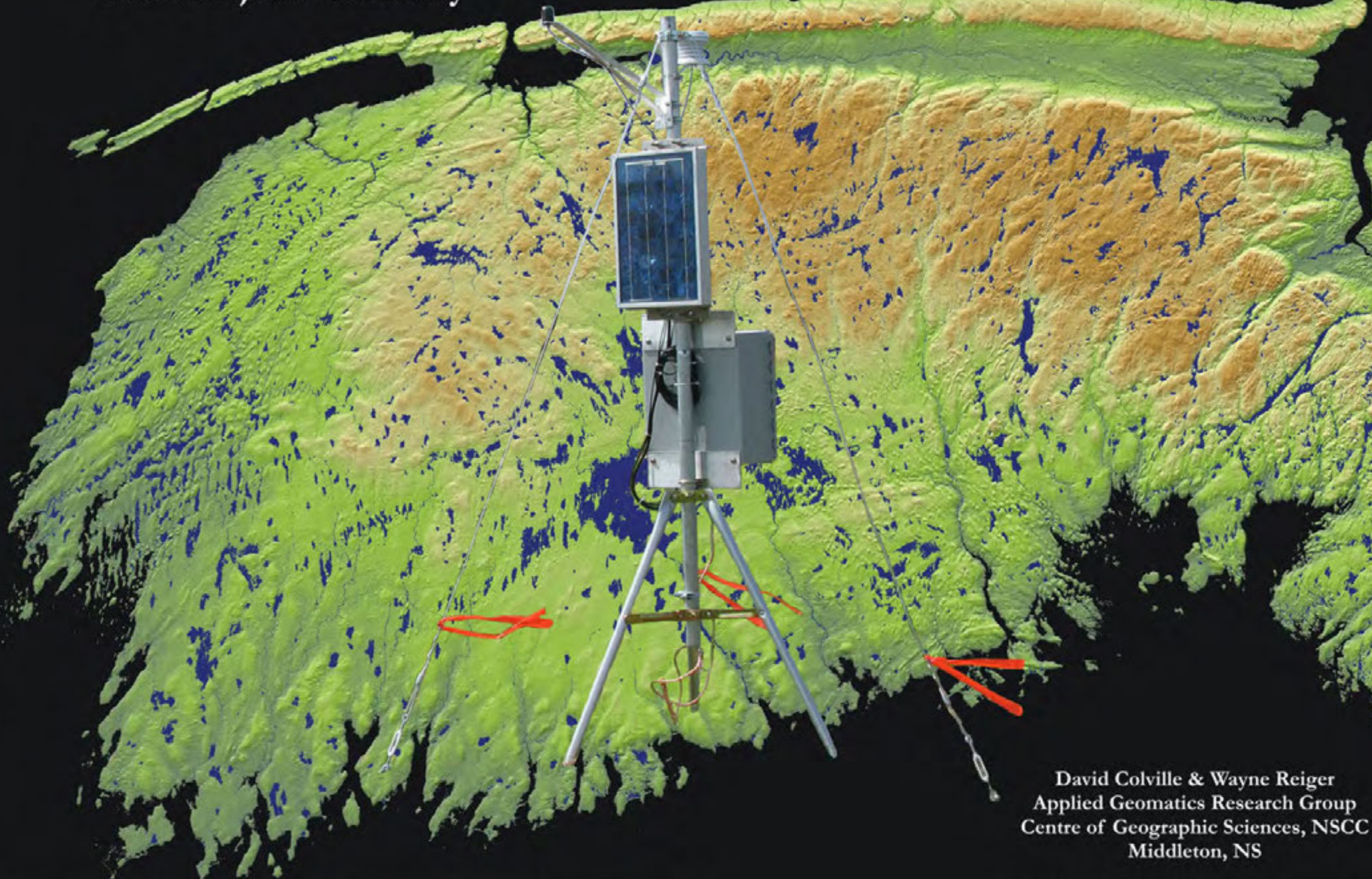


South West Nova Scotia (SWNS) Temperature and Solar Radiation Study

2013 Project Summary



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with an Agricultural Applications Summary
by John Lewis, AgraPoint

South West Nova Scotia Temperature and Solar Radiation Study

2013 Project Summary

Applied Geomatics Research Group



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South West Nova Scotia Temperature and Solar Radiation Study: 2013 Project Overview

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Applied Geomatics Research Group (AGRG), NSCC

Introduction

Early in 2011, the three Community Business Development Corporations (CBDCs) of Yarmouth, Shelburne, and Queens/Lunenburg secured funding from more than a dozen sources to launch a project to assess weather conditions and their influence on agriculture potential. Their area of interest was the counties of Digby, Yarmouth, Shelburne, Queens, and Lunenburg. To implement this three-year project the CBDCs approached Perennia (formerly AgraPoint), for their agricultural consulting experience, and the Applied Geomatics Research Group (AGRG), for their years of experience in similar 'weather mapping' initiatives in the Annapolis Valley. The AGRG took the lead in weather station equipment selection, purchase, deployment, maintenance, data collection and processing. This resulted in the deployment of 42 Onset weather stations to measure both temperature and solar radiation (i.e., sunshine units).

Also in 2011, the AGRG deployed 18 more Onset weather stations (with the same specifications as the other 42) within the Kings and Annapolis counties (as a result of an NSERC ARTI grant). These stations replace previously deployed equipment and complement an additional 14 Campbell Scientific stations that the AGRG has had deployed throughout the Annapolis Valley for almost a decade. These 74 stations allow for coverage of the entire South West Nova Scotia (SWNS) geography, and are the focus of this report. The additional 32 stations do not incur any costs for the CBDC project; however, they are a valuable resource to the project since they allow for an excellent comparison to the weather regimes observed in the agriculturally important Annapolis Valley. Additionally, for all 74 stations the AGRG has collected ground-based, aerial, and satellite imagery which will be very useful for measuring the localized conditions around each weather station. Obstructions such as buildings, trees, etc. can have a definite impact on the temperature and solar radiation recorded at a given site and the AGRG's imagery will allow for a quantification of this impact.

Growing Degree Days (GDD) are common units used to quantify temperatures for agricultural purposes. They are calculated by taking the average of the daily maximum and minimum temperatures compared to a base temperature, T_{base} :

$$GDD = \frac{T_{\text{max}} + T_{\text{min}}}{2} - T_{\text{base}}$$

In this study the GDD are calculated using T_{base} values of both 5°C and 10°C to address the criteria of various crop requirements. The Frost Free (FF) period starts after the last spring frost (i.e., a temperature value less than or equal to 0°C) and extends to the killing frost (which for this study has been defined as temperatures less than or equal to -2°C for a period of at least two hours). The frost free period is thus also referred

to as the growing season. Solar radiation is the other focus of this study. It is a measure of the amount of sunshine that occurs at a site and is agriculturally important due to the relationship between plants and sunshine, as well as the drying properties of sunshine.

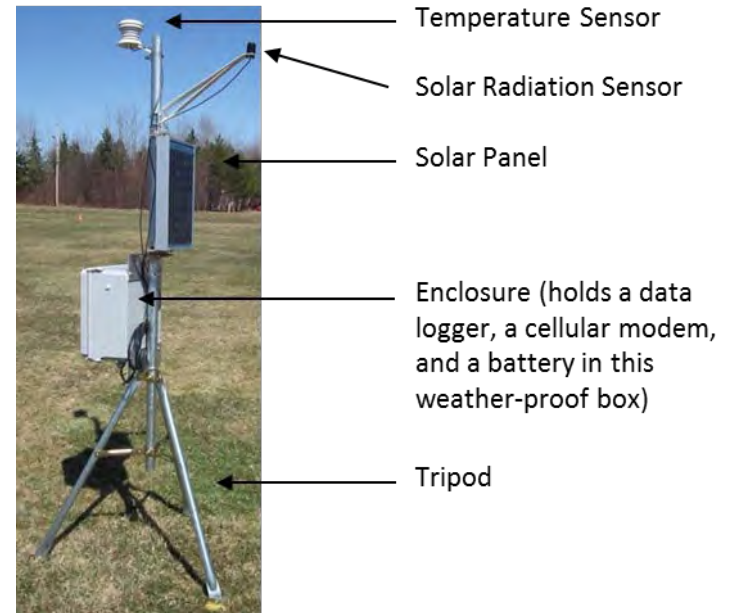
Station Equipment

The Onset stations are the main equipment used in this study; the Campbell Scientific stations have a number of additional sensors (i.e., wind speed and direction, barometric pressure, relative humidity, rainfall, soil temperature, and soil moisture).

The Onset stations, sold in Canada by Hoskin Scientific Limited, are equipped with a HOBO Micro Station data logger, a CDMA cellular modem, and a 20 Ahr. sealed lead acid battery all enclosed within a Hoffman Nema 4 enclosure. Additionally there is a Smart 12-bit temperature sensor within a radiation shield, a silicon pyranometer sensor (for measuring solar radiation), and a 5 watt solar panel to recharge the battery. All of these components are deployed on a 2m tripod.

The stations established on each site location looks similar to the one shown here. Both the temperature and solar radiation sensors are polled every 10 seconds and the data is averaged to produce a data record which is stored on the data logger every five minutes.

The modem is used to automatically transmit the data to the AGRG office through Bell's cellular network and the Internet. A properly operating modem helps to limit the need for site visits to only a couple of times a year for maintenance purposes. The intention is to maintain each station at the same site for the duration of the study (i.e., three years). DataGarrison's website (www.datagarrison.com) provides a means of viewing the data results as they are downloaded via the modem.



Station Deployment and Maintenance

Stations were deployed in transects (agreed on through meetings with the CBDC) which start with a station on the coast and move inland. Seven transects (Weymouth, Yarmouth, Clyde River, Shelburne, Liverpool, Bridgewater, and Chester) were identified with the CBDC, and then the AGRG included three additional transects (Kentville, Middleton, and Annapolis Royal), plus Brier Island and the Campbell Scientific stations throughout the Valley. This resulted in a total of 12 transects and coast to coast coverage between the Bay of Fundy and the Atlantic Ocean on the South Shore.

The stations were deployed in open areas as free from obstructions (i.e., trees, buildings, etc.) as could be achieved, in areas that had some degree of protection (i.e., people's yard and not in abandoned locations), in areas that indicated some potential for agricultural opportunities, and in areas that had cellular coverage on Bell's network. Considerable time was spent scouting the SWNS area for sites that met these criteria and negotiating with land owners for their permission to host the stations for the three-year duration of the project. Station deployment began in mid-April: was complete for the CBDC transects by mid-May; was mostly complete by mid-July for the other transects; however, some were not deployed until late August. This variability made station comparisons a little difficult for the 2011 year, but after that the data is complete.

All of the stations within the CBDC transects have modems that transmit data to the AGRG office, and the data continues to be accessible through the DataGarrison website as it is downloaded (i.e., every six hours). The Campbell Scientific stations also transmit their data, and the other Annapolis Valley stations are currently transmitting their data. Stations that transmit their data not only allow for acquiring recent observations, but also allow the AGRG to identify stations that are not working properly and need maintenance. The 2013 growing season had a number of minor (i.e., very short) data gaps at a few stations, but overall the equipment worked well.

Report Contents

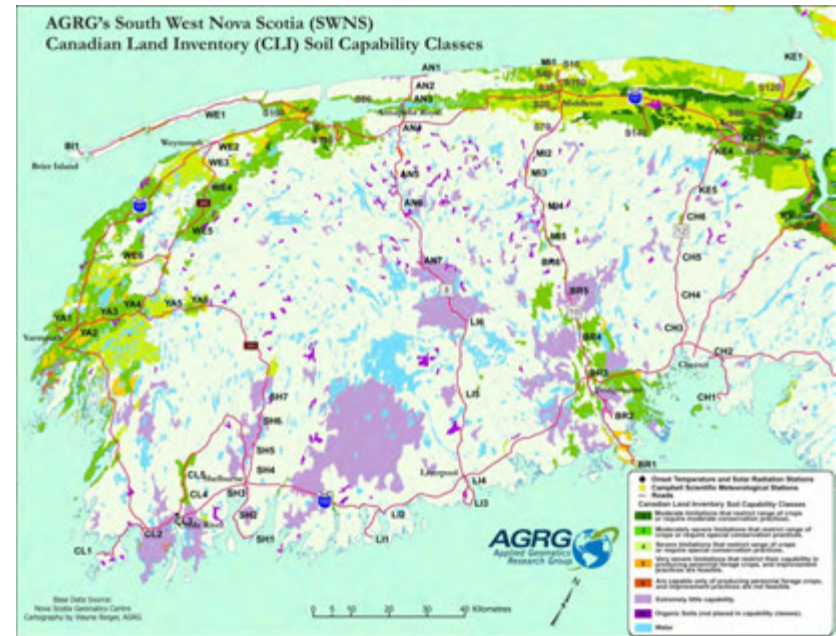
The contents of this 2013 report are made up of a number of components (most of them similar to the two previous reports). This Project Overview is followed by an Agricultural Applications Summary written by John Lewis from Perennia. John's summary provides an interpretation of the data collected as it relates to the agricultural potential of the area. Eight maps of the SWNS geography are provided next (see the next page for a quick description), followed by five tables which summarize the 2013 data from the 74 stations. The remaining content, the largest section of the report, is comprised of a two-page summary for each station (described later in this Overview).

The five data summary tables are:

- Table 1: 2013 Temperature Data Summary
- Table 2: 2013 Base 5°C Heat Unit Accumulation within the April to November Period
- Table 3: 2013 Base 10°C Heat Unit Accumulation within the April to November Period
- Table 4: 2013 Daily Average Solar Radiation within the April to November Period
- Table 5: 2011 - 2013 Annual Temperature Comparison

These tables have been designed to easily allow for comparing results between stations. Each table uses a two-page format to present all stations in this study, and each table has the same first four columns which identify the stations, their locations, and their deployment dates. Table 1 focuses on describing the frost free period, the growing degree days (both Base 5°C and 10°C), and the minimum temperatures recorded at each station. Tables 2 and 3 present the monthly (April to November) growing degree day accumulations using Base 5°C and 10°C respectively. These first three tables list the GGD values and the GDD values that have occurred within the station's frost free period (shown in []). Table 4 focuses on the daily average solar radiation values for the same set of months. Table 5 is new this year and provides a comparison of temperature results from the three years of the study, 2011-2013.

Four sets of SWNS maps have been included in this report; the first set provides station location context while the remaining three sets show the heat accumulation and solar radiation results for 2013, 2012, and 2011. The first two maps show the location and Station IDs of the 74 stations on a colourized Digital Elevation Model (DEM) and with Soils Capability information (see the map on the right). The DEM illustrates the elevation of SWNS and thus conveys a sense of the area's topography. There is an obvious link between temperatures, elevations, and a location's proximity to the coast. Some examples of these relationships can clearly be seen based on the heat accumulation values shown on annual Heat Accumulation maps (see the example below). The Soils Capability mapping has been included to illustrate the locations of the best soils throughout SWNS and the location of the weather stations in relation to them.



For each year of the study, Heat Accumulation results for the growing season (Apr-Nov) are provided on the colourized DEM. These can be compared to the results of Solar Radiation Mapping that the AGRG has conducted in SWNS, which are also provided for the growing season (Apr-Nov). These solar maps illustrate solar radiation (i.e., sunshine) information from two sources: (1) NASA's Geostationary Operational Environmental Satellite (GOES) imagery; and (2) the weather stations throughout SWNS. GOES imagery is freely available for North America and beyond. There is a new, 1km-resolution image available every half hour and these images effectively map the movement of clouds. AGRG has produced software which analyzes these images with a DEM of an area and produces a map of the area's solar radiation. These maps show the results of analyzing more than 6000 images of SWNS for each year (throughout Apr-Nov). Additionally, the summary of corresponding solar radiation data

from the SWNS weather stations has been plotted on the maps. These maps show a good correlation between the two solar radiation sources. This is important in that it illustrates an effective means of mapping solar radiation beyond the locations of where stations have been set up.

The first page of the two-page Station Summary provides a description of the station, while the second page provides a summary of the 2013 temperature and solar radiation data:

Station Description: a listing of stations information. The Station ID also indicates Onset (O) from Campbell Scientific (C) stations.

Station Panorama: a panorama image of the station location. The station is photographed while facing North, South is near the centre of the image, and the far right wraps around back to North.

South West Nova Scotia Stations Map: illustrates the locations of all stations. The current station is outlined in black. Soils Capability is also presented to help illustrate the best soil locations in SWNS

Station Graphs: six graphs depicting the daily temperature and solar radiation values for the months of May to October (the most important months of the agricultural growing season).




Station Deployment and Frost Free Information: if a station was deployed after the Frost Free Start date then the start date will be listed as NA.

South West NS Temperature and Solar Radiation Study

Station Description

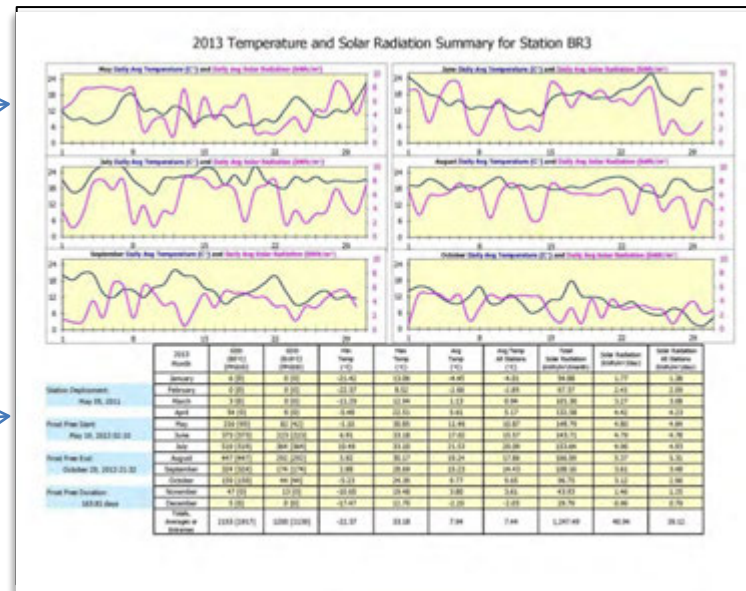
Station ID: BR3 (O) Easting: 378345.598
 Location: Bridgewater Northing: 4916323.686
 County: Lunenburg Height (m): 39.52
 Contact: Kevin Johnson [UTM Zone 20, NAD 83]
 Deployment: 5/5/2011

AGRG COGS Centre of Geomatics Sciences nsc Applied Research

Station Photograph: a picture of the station situated on the site. All photos were recorded in August 2011.

Station Locator Map: a section of a 1:50,000 scale National Topographic System (NTS) map showing the location of the station, as represented by the red dot at the centre of the map. The Soils Capability mapping is blended into this map to show the localized soil detail.



Monthly Summary Table: provides a month-by-month listing of results observed at the station. Results are provided for the months that the station was active; even if data only exists for part of a month (monthly averages are based on available data). Two columns reference data derived from "All Stations". These are again based on all available data. The "All Stations" results are intended to provide a comparison to the average of all stations included in this study.

For further information on any of the details of this study please feel free to contact:

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- and the three Community Business Development Corporations – Yarmouth, Shelburne, and Queens/Lunenburg.

In addition, there are a number of people that we would like to acknowledge for the support they have provided:

- Chris Atwood, Dixie Redmond, and Krista Harding from the three respective CBDCs who recognized the value of this project and worked hard to pull many of the funding agents together to make this project happen;
- John Lewis from Perennia who was instrumental in site scouting and deployment of some of the stations;
- Keegan Colville for his efforts in finding sites, deploying stations, processing all of the photographs, and automating the generation of page one of the Station Summaries component of this report;
- and, of course, the many land owners who have allowed us to setup the stations on their properties for the duration of this project.

Agricultural Applications Summary – 2011-2013 Data Analysis

John Lewis, M.Sc., P.Ag
Horticulture, Perennia

Background

There are numerous challenges facing the rural economies in Southwest Nova Scotia (SWNS), not the least of which are depopulation and undiversified economies based on fisheries or forestry. Historically, many areas throughout the region supported agriculture, usually in the form of small mixed farms, but these have been largely lost in recent decades. While this traditional model may no longer be viable, there are climatic attributes to SWNS that may make alternative agricultural models feasible. One such model is the production of high value perennial fruit crops such as peaches, highbush blueberries, and wine grapes. These relatively new crops to the Province have specific climatic requirements that may best be found in the study region but the climatic variability in this area has only been coarsely defined and a better elaboration is required to attract investors and promote development.

Methods

In a first step toward elaborating the climatic variation in southwest Nova, 42 temperature and solar radiation stations were deployed throughout the South Shore region in the spring of 2011. Located along seven transportation corridors leading from coastal sites inland, these stations were deployed to help define the best opportunity areas for high value agricultural crops within the region. The seven corridors are identified as Chester (CH), Bridgewater (BR), Liverpool (LI), Shelburne (SH), Clyde (CL), Yarmouth (YA), and Weymouth (WE).

During the summer of 2011, the Applied Geomatics Research Group (AGRG) activated three more corridors through the Annapolis Valley encompassing an additional 18 weather stations. With corridors through Annapolis Royal (AN), Middleton (MI), and Kentville (KE), these Valley corridors provide an excellent database from which to compare the seven South Shore corridors as the bulk of current high value fruit crops in the Province are located in the Annapolis Valley. Data for the years 2012 and 2013 are of particular interest as they provide a complete database for all ten corridors in the study.

2011-2013 Results

1. General trends within the study region

a. Trends within corridors

Over the three years of the study, each of the study corridors illustrated the basic trend that as one proceeds from the coast inland, heat accumulation increases while winter minimum temperature decreases. This is illustrated in Table 1 where the average data from the coastal stations is compared to the average data from the farthest inland stations for the two-year period of 2012-2013. Assuming an average distance of 60 kilometers (km) between a coastal station and its most inland companion one can calculate that on average one loses about 5.7 days of frost-free growing time for every 10 kilometers travelled inland, and over a month for the entire 60

kilometer distance. At the same time, the heat unit accumulation (growing degree days) is increasing by about 23 degree days (Base 10°C) for every 10 km distance or approximately 140 degree-days over the 60 km distance from the coast. This represents a 15% increase in heat accumulation from coast to inland sites on average.

Also, winter minimum temperatures are decreasing by about 0.7 degrees Celsius for every 10 km travelled inland so that one can estimate a winter minimum drop of over 4 degrees Celsius over the 60 km distance. Of course these trends are not uniform and substantial station to station variability is observed as influenced by meso- and microclimate variables such as elevation, slope, and proximity to bodies of water; however, the general hypothesis of increasing heat accumulation during the growing season and decreasing frost-free period and winter minima as one proceeds inland is in general substantiated by the data. While increasing heat unit accumulation as one travels inland is desirable for a high value crop such as wine grapes, decreasing frost free period and winter minimums are equally unfavorable. As such, the presence of “sweet spots” or areas within each corridor where there is an equitable balance between the conflicting trends is of great interest. The location and characterization of these sweet spots is one of the fundamental objectives of the study.

Surprisingly, the data suggests that solar radiation changes very little as one travels inland from the coast and in fact coastal sites have been slightly sunnier over the period of 2012-2013.

| Location | Ave. frost-free period (days) | Ave. growing degree days (Base 10°C) | Ave. minimum winter temp. (°C) | Ave. solar radiation (kWh/m²) |
|---------------------------------|--------------------------------------|---|---------------------------------------|---|
| Coastal stations | 194 | 906 | -15.6 | 32.7 |
| Farthest inland stations | 160 | 1045 | -19.9 | 31.5 |
| Difference | 34 | 139 | 4.3 | 1.2 |

As noted above, there are also some deep inland sites that do not follow the usual trends and demonstrate some surprisingly high heat units, long frost free period, and relatively mild winter minima. Examples of these sites include SH6 and SH7 in the Shelburne corridor, YA5 and YA6 in the Yarmouth corridor, WE5 in the Weymouth corridor, and MI5 in the Middleton corridor. These sites exhibit strong positive meso- and microclimate effects that appear to be related to slope, elevation, and proximity to bodies of water (eg. rivers or lakes) and suggest that there are some surprisingly desirable areas for high value crop production deep in the interior of the province.

b. Trends between corridors

In 2012-2013 there were no obvious trends for heat unit accumulation between the ten study corridors (Table 2). However, the Clyde corridor had noticeably reduced GDD's due to its extension into the Atlantic via Cape Sable Island. Despite this, the GDD's for this corridor were still respectable (average of 931) and suggested that some sites in this area may still be suitable for high value crop production. The warmest corridor for the two-year period was Bridgewater (1088), followed closely by Liverpool (1049), Shelburne (1047), Weymouth (1041), Kentville (1040), and Yarmouth (1039), all with essentially equivalent GDD's.

Interestingly, the group of corridors with the lowest GDD's, with the exception of the Clyde corridor, included Chester (1010) and two of the three Valley corridors - Annapolis (1014) and Middleton (1027). Overall, the Valley corridors ranked 5th (Kentville), 7th (Middleton) and 8th (Annapolis) among the 10 study corridors for heat unit accumulation. This again supports the contention that SWNS has sites with at least comparable seasonal heat unit accumulation to that of the highly regarded Annapolis Valley.

Table 2: Average weather data for the ten study corridors examined in 2012 and 2013.

| Corridor | Station Means | | | |
|-----------------------------|--------------------|-------------------|-----------------------------|--|
| | GDD (Base 10°C) | Min. Temp (°C) | Frost-Free Period (days) | Solar Radiation (kWh/m ²) |
| Chester (CH) | 1010 | -20.3 | 165 | 31.8 |
| Bridgewater (BR) | 1088 | -20.1 | 169 | 32.3 |
| Liverpool (LI) ¹ | 1049 | -18.2 | 173 | 32.4 |
| Shelburne (SH) | 1047 | -17.1 | 167 | 31.7 |
| Clyde (CL) | 931 | -16.7 | 170 | 32.2 |
| Yarmouth (YA) | 1039 | -16.1 | 184 | 31.7 |
| Weymouth (WE) | 1041 | -16.4 | 172 | 32.6 |
| Annapolis (AN) | 1014 | -19.3 | 162 | 31.9 |
| Middleton (MI) | 1027 | -20.7 | 167 | 32.3 |
| Kentville (KE) | 1040 | -19.9 | 173 | 31.9 |

¹ Only stations LI3, LI4, LI5, and LI6 were used in the mean calculations.

Examining the 2012-2013 winter minima data in Table 2, an interesting trend of increasingly mild winter minima is illustrated as one proceeds from the Chester corridor westward to Yarmouth and then reversing to gradually colder minima moving eastward, peaking at -20.7°C for the Middleton corridor. In fact the Yarmouth corridor, at an average winter minima of -16.1°C is more than 4°C milder than the Chester and Middleton corridors to the east. This further validates the hypothesis that SWNS is milder than the Annapolis Valley, a great advantage for winter sensitive crops like wine grapes, peaches, and highbush blueberries.

There were no strong trends apparent in the frost free and solar radiation data although it is noteworthy that the Yarmouth corridor had a frost free period 2 to 3 weeks longer than the other corridors. This is very curious and it is thought that the high density of low

elevation lakes south of the corridor creates a unique air drainage accounting for the long frost free period throughout the length of this corridor, presenting a unique attribute for this area.

2. Comparison to minimum climatic standards

Wine grape production is a high value crop for which climatic requirements have been well-defined and as such presents a suitable model for comparison within the study area. Most experts agree that a minimum of 900 growing degree days (GDD) above 10°C are required for wine grape production and ideally above 1300 (Table 3). Additionally, a minimum of 150 frost free days (FFD) are required and ideally up to 180 days. Finally, sites with winter minima below -26°C would be considered to have poor suitability, and would be considered most suitable if their minima were rarely below -21°C and never below -23°C.

| Climate rating | Degree Days above 10°C | Frost-free period (days) | Winter Minimums (°C) |
|-----------------------|-------------------------------|---------------------------------|--|
| Most suitable | >1300 | 180 | -21 3 times or less in 10 yrs. Minimum not less than -23. |
| Good suitability | 1100-1300 | 165 | -21 5 times or less in 10 yrs. Minimum not lower than -26. |
| Fair suitability | 900-1100 | 150 | -21 almost every year. -26 or lower only once in 10 yrs. |
| Poor suitability | <900 | 130 | -23 5 times or more in 10 yrs. -26 3 times or more in 10 yrs. |

Using the standards identified in Table 3, each of the corridors in the study demonstrated some potential for high value perennial crop production, based on the 2011-2013 weather data. For heat unit accumulation, only four coastal stations (CH1, LI3, CL1, and YA1) had mean GDD's below 900 for the 3-year period (Table 4). Taking an even more conservative approach, sites with high GDD variability that would be expected to have years below the 900 threshold would extend the number of unacceptable sites by one additional station located at the coastal site in the Bridgewater corridor (BR1). Perhaps it is not surprising that 5 of the 10 coastal sites are unsuitable for wine grape production but this author finds it remarkable that all were not found to be unsuitable as per this criterion.

Examining the data further, six stations (excluding BR1) had heat unit accumulations between 900 and 1000 degree days, twenty-one were between 1000 and 1100, and nine were between 1100 and 1200. For comparison, the benchmark site at the Kentville Research Station (KSR a.k.a. KE3) had a 3-year average GDD of 1155 but it is noteworthy that station BR3 in the Bridgewater corridor had a higher 3-year average GDD of 1172 and eight other stations in the study area had comparable GDD's above 1100.

Table 4: Base 10°C growing degree days (GDD's) at the South Shore weather stations and the Kentville Research Station (KRS) from 2011 to 2013.

| Corridor/station | GDD's (2011-2013) | | | |
|-----------------------------|-------------------|------|------|-------------|
| | 2011 | 2012 | 2013 | Mean +/- SD |
| Chester (CH): | | | | |
| CH1 | 856 | 924 | 813 | 864 +/- 56 |
| CH2 | 966 | 1078 | 981 | 1008 +/- 61 |
| CH3 | 1028 | 1110 | 1028 | 1055 +/- 47 |
| CH4 | 1026 | 1120 | 1031 | 1059 +/- 53 |
| CH5 | 975 | 1035 | 967 | 992 +/- 37 |
| CH6 | 977 | 1047 | 983 | 1002 +/- 39 |
| Bridgewater (BR): | | | | |
| BR1 | 904 | 986 | 834 | 908 +/- 76 |
| BR2 | 1110 | 1195 | 1141 | 1149 +/- 43 |
| BR3 | 1150 | 1226 | 1139 | 1172 +/- 47 |
| BR4 | 1074 | 1195 | 1114 | 1128 +/- 62 |
| BR5 | 918 | 1110 | 1024 | 1017 +/- 96 |
| BR6 | 1031 | 1070 | 1017 | 1039 +/- 27 |
| Liverpool (LI) ¹ | | | | |
| LI3 | 915 | 940 | 811 | 889 +/- 68 |
| LI4 | 1087 | 1160 | 1102 | 1116 +/- 39 |
| LI5 | 1019 | 1151 | 1094 | 1088 +/- 66 |
| LI6 | 1114 | 1102 | 1034 | 1083 +/- 43 |
| Shelburne (SH): | | | | |
| SH1 | 1026 | 1080 | 951 | 1019 +/- 65 |
| SH2 | 1051 | 1075 | 994 | 1040 +/- 42 |
| SH3 | 1029 | 1108 | 1018 | 1052 +/- 49 |
| SH4 | 995 | 988 | 927 | 970 +/- 37 |
| SH5 | 1090 | 1100 | 1032 | 1074 +/- 37 |
| SH6 | 1033 | 1172 | 1025 | 1077 +/- 83 |
| SH7 | 1134 | 1145 | 1041 | 1107 +/- 57 |
| Clyde (CL): | | | | |
| CL1 | 716 | 842 | 539 | 699 +/- 152 |
| CL2 | 1040 | 1111 | 953 | 1035 +/- 79 |
| CL3 | 991 | 994 | 899 | 961 +/- 54 |
| CL4 | 1003 | 1008 | 949 | 987 +/- 33 |
| CL5 | 1031 | 1047 | 971 | 1016 +/- 40 |

| | | | | |
|----------------|------|------|------|-------------|
| Yarmouth (YA): | | | | |
| YA1 | 835 | 958 | 807 | 867 +/- 80 |
| YA2 | 1034 | 1109 | 995 | 1046 +/- 58 |
| YA3 | 1064 | 1112 | 997 | 1058 +/- 58 |
| YA4 | 992 | 1040 | 961 | 998 +/- 40 |
| YA5 | 1101 | 1166 | 1090 | 1119 +/- 41 |
| YA6 | 1135 | 1161 | 1074 | 1123 +/- 45 |
| Weymouth (WE): | | | | |
| WE1 | 947 | 1039 | 906 | 964 +/- 68 |
| WE2 | 1017 | 1073 | 978 | 1023 +/- 48 |
| WE3 | 1050 | 1065 | 955 | 1023 +/- 60 |
| WE4 | 1080 | 1117 | 1023 | 1073 +/- 47 |
| WE5 | 1121 | 1149 | 1062 | 1111 +/- 44 |
| WE6 | 1067 | 1089 | 1030 | 1062 +/- 30 |
| | | | | |
| KE3 (KRS) | 1143 | 1220 | 1102 | 1155 +/- 60 |

¹ Stations LI1 and LI2 were not included here.

Recalling the winter minimums in the 2012 data, not even the coldest winter minimum, -20.1°C in the Middleton corridor, was below the -23°C benchmark for injury. Based on this data one would conclude that winter injury concerns are minor in SWNS but such is the risk of drawing conclusions from a single winter of data. When we examine the 2013 data (Table 5) we see a much different picture for this important variable. Using the -23°C threshold, a total of 18 stations, including the benchmark site at the Kentville Research Station, reported winter minimums below -23°C. Not surprisingly, the bulk of these stations were located in the colder eastern study corridors or in deep inland sites. In fact, 9 of the 18 were in the Annapolis Valley corridors and an additional five more were in the Chester corridor. **Not a single station in the Shelburne, Clyde, Yarmouth, or Weymouth corridors was below -23°C in 2013, again validating the superiority of the west end of the study region for this critical variable. With all other variables equal, the milder winters of the South Shore suggest that high value winter sensitive crops (eg. wine grapes, highbush blueberries, and peaches) and cultivars (eg. vinifera wine grapes) would be better placed in the South Shore than in the Annapolis Valley.**

| Table 5: Winter minimum temperatures (° C) in 2013 | | | |
|--|-------------|-------------------------|-------------|
| Corridor/station | Min. T (°C) | Corridor/station | Min. T (°C) |
| Chester (CH): | | Yarmouth (YA): | |
| CH1 | -22.2 | YA1 | -15.4 |
| CH2 ¹ | -23.0 | YA2 | -16.2 |
| CH3 | -25.3 | YA3 | -18.0 |
| CH4 | -23.7 | YA4 | -20.4 |
| CH5 | -25.6 | YA5 | -19.2 |
| CH6 | -23.7 | YA6 | -18.7 |
| Bridgewater (BR): | | Weymouth (WE): | |
| BR1 | -17.7 | WE1 | -16.3 |
| BR2 | -22.2 | WE2 | -16.0 |
| BR3 | -22.4 | WE3 | -17.3 |
| BR4 | -24.3 | WE4 | -21.1 |
| BR5 ² | -26.2 | WE5 | -20.3 |
| BR6 | -26.1 | WE6 | -18.9 |
| Liverpool (LI): | | Annapolis (AN): | |
| LI3 | -17.3 | AN1 | -18.1 |
| LI4 | -18.7 | AN2 | -18.1 |
| LI5 | -20.9 | AN3 | -22.4 |
| LI6 | -24.0 | AN4 | -22.2 |
| Shelburne (SH): | | AN5 | -25.3 |
| SH1 | -16.1 | AN6 | -24.8 |
| SH2 | -17.1 | AN7 | -24.8 |
| SH3 | -19.8 | Middleton (MI): | |
| SH4 | -21.2 | MI1 | -19.5 |
| SH5 | -21.1 | S30 | -29.9 |
| SH6 | -19.3 | S70 | -22.4 |
| SH7 | -20.4 | MI2 | -26.7 |
| Clyde (CL): | | MI3 | -21.9 |
| CL1 | -13.9 | MI4 | -23.4 |
| CL2 | -16.7 | MI5 | -22.1 |
| CL3 | -20.3 | Kentville: (KE): | |
| CL4 | -20.5 | KE1 | -18.7 |
| CL5 | -21.1 | KE2 | -21.9 |
| | | KE3 (KRS) | -23.4 |
| | | KE4 | -23.2 |
| | | KE5 | -26.7 |

¹Stations highlighted in yellow have winter minimums below the -23°C risk threshold.

²Stations highlighted in turquoise have winter minimums below the -26°C risk threshold.

Finally, 'frost free period' is a parameter of great importance for successful production of frost sensitive crops such as peaches and wine grapes. Using the criteria illustrated in Table 3, only nine stations had what would be classified as 'poor suitability' of less than 150 frost-free days in the 2012 data; however, much like what we observed for the winter minimum temperature data, 2013 was a very different year and a total of 18 of the 60 stations were below the suitability threshold for this variable (Table 6). Most of these stations were in the most interior locations of the individual corridors but there were notable exceptions, such as in Shelburne and Yarmouth, again suggesting that there are some compelling microclimates in deep inland locations where we would not normally expect to find them.

Not surprisingly, many of the coastal stations had long frost-free periods with more than 180 frost-free days and thus in the 'most suitable' category for this parameter; however, these coastal stations have usually been excluded as desirable sites due to their low heat unit accumulations discussed earlier. Of more interest are high heat unit sites with frost-free periods in the most suitable category and only two sites, YA3 and YA6, both in the Yarmouth corridor, fit this criterion. Coupled with their excellent heat and winter minimum data they are very promising sites indeed for high value crop production.

Table 6: Frost-free period (days) at the Southwest Nova Scotia weather stations from 2012-2013.

| Corridor/station: | 2012 | 2013 | Mean |
|-----------------------------------|-------------|------------------|-------------|
| Chester (CH): | | | |
| CH1 | 160 | 146 ¹ | 153 |
| CH2 | 189 | 164 | 177 |
| CH3 | 170 | 163 | 166 |
| CH4 | 177 | 163 | 170 |
| CH5 | 154 | 160 | 157 |
| CH6 | 177 | 163 | 170 |
| Bridgewater (BR): | | | |
| BR1 | 202 | 205 | 203 |
| BR2 | 177 | 178 | 177 |
| BR3 | 177 | 164 | 170 |
| BR4 | 175 | 163 | 169 |
| BR5 | 154 | 146 | 150 |
| BR6 | 149 | 137 | 143 |
| Liverpool (LI)¹ | | | |
| LI3 | 191 | 191 | 191 |
| LI4 | 190 | 177 | 183 |
| LI5 | 177 | 164 | 170 |
| LI6 | 149 | 147 | 148 |
| Shelburne (SH): | | | |
| SH1 | 211 | 201 | 206 |
| SH2 | 173 | 179 | 176 |
| SH3 | 164 | 160 | 162 |
| SH4 | 147 | 133 | 140 |
| SH5 | 153 | 138 | 145 |
| SH6 | 177 | 163 | 170 |
| SH7 | 170 | 163 | 167 |
| Clyde (CL): | | | |
| CL1 | 237 | 231 | 234 |
| CL2 | 177 | 164 | 170 |
| CL3 | 154 | 148 | 151 |
| CL4 | 148 | 147 | 147 |
| CL5 | 147 | 147 | 147 |

| | | | |
|------------------------|-----|-----|-----|
| Yarmouth (YA): | | | |
| YA1 | 214 | 191 | 202 |
| YA2 | 194 | 177 | 185 |
| YA3 | 190 | 186 | 188 |
| YA4 | 169 | 160 | 165 |
| YA5 | 177 | 176 | 176 |
| YA6 | 191 | 184 | 187 |
| Weymouth (WE): | | | |
| WE1 | 183 | 178 | 180 |
| WE2 | 170 | 177 | 173 |
| WE3 | 170 | 147 | 159 |
| WE4 | 171 | 163 | 167 |
| WE5 | 177 | 177 | 177 |
| WE6 | 177 | 176 | 176 |
| Annapolis (AN): | | | |
| AN1 | 184 | 204 | 194 |
| AN2 | 190 | 179 | 184 |
| AN3 | 165 | 147 | 156 |
| AN4 | 165 | 147 | 156 |
| AN5 | 165 | 147 | 156 |
| AN6 | 149 | 137 | 143 |
| AN7 | 149 | 137 | 143 |
| Middleton (MI): | | | |
| MI1 | 191 | 185 | 188 |
| S30 | 165 | 160 | 162 |
| S70 | 189 | 163 | 176 |
| MI2 | 149 | 137 | 143 |
| MI3 | 177 | 164 | 170 |
| MI4 | 170 | 147 | 158 |
| MI5 | 177 | 164 | 171 |
| Kentville (KE): | | | |
| KE1 | 190 | 184 | 187 |
| KE2 | 190 | 163 | 177 |
| KE3 (KRS) | 177 | 164 | 170 |
| KE4 | 190 | 164 | 177 |
| KE5 | 149 | 146 | 147 |

¹ Station data highlighted in yellow is below the 150-day threshold for frost-free day suitability for sensitive crops like wine grapes and peaches.

3. Best stations from 2011-2013

As there is an incomplete data set for frost-free period, winter minima and solar radiation in 2011 we cannot draw any conclusions for these variables over 2011 to 2013, the three years of the study. However, the data set is complete for heat unit accumulation (GDD's Base 10°C) in the seven South Shore corridors and for the Kentville Research Station (KRS) which has already been noted as an excellent benchmark site for wine grape production. As such, it is interesting to look at the top stations for GGD accumulation relative to the KE3 (KRS) benchmark over the entire 3-year period:

| | |
|--------------|----------|
| 1. BR3 | 1172 GGD |
| 2. KE3 (KRS) | 1155 GDD |
| 3. BR2 | 1149 GDD |
| 4. BR4 | 1128 GDD |
| 5. YA6 | 1123 GDD |
| 6. YA5 | 1119 GDD |
| 7. LI4 | 1116 GDD |
| 8. WE5 | 1111 GDD |
| 9. SH7 | 1107 GDD |
| 10. LI5 | 1088 GDD |

What is noteworthy is that the benchmark site is not at the top of the list as would have been expected although it is second validating its characterization as an excellent site for crops having a high heat requirement for growth and yield. It is also noteworthy that the Bridgewater corridor placed 3 stations on this 'top ten list' and that 5 of the 7 corridors had at least one station on this list, suggesting that it is not just an isolated pocket that has high heat numbers but that high suitability sites can potentially be found throughout the study region, being influenced more by meso- and microclimate influences than any other factor.

Conclusions

Based on the 2011-2013 weather data, Southwest Nova Scotia certainly offers significant potential for high value agricultural crop production. The corridor with the highest heat unit accumulation was Bridgewater, while the Liverpool, Shelburne, Yarmouth, Weymouth, and Kentville corridors were very similar to each other but with slightly less heat than Bridgewater (Table 2). A third group including the Chester, Annapolis, and Middleton corridors had slightly lower heat unit totals again from that of the second group while the Clyde corridor represented a fourth category and was the coolest area in the study. Even so, the Clyde corridor with an average heat unit accumulation of 931 GDD's, was still above the minimum threshold for wine grape production and a number of individual sites are very promising for high value crop production in this area.

Examining winter minimums, the western corridors of Clyde, Yarmouth, and Weymouth were the mildest within the study area and winter minima generally decreased as one progressed east, either through the South Shore corridors or the Annapolis Valley corridors. Similarly, average frost free periods were generally longer in the west, becoming progressively shorter moving easterly. The Yarmouth corridor was especially attractive for this variable, retaining long frost free periods regardless of distance inland. Collectively, the evidence for the 2011-2013 period strongly supports the notion that the South Shore region has comparable, and in many cases superior, climatic suitability for high value crops such as peaches, highbush blueberries and grapes, than the agricultural standard represented by the Annapolis Valley.

Solar radiation data showed surprisingly little evidence of fog depression at coastal sites over the three years of the study, nor was there any noticeable trends travelling between eastern and westerly corridors. It is felt that heavy fog seasons would have a dramatic negative effect on climate variables, but unknown at this time is the periodicity of these events, the extent to which their effects might extend inland, and the degree of their effects on other climate variables. Certainly there is evidence of higher GDD variability at coastal sites (Table 4) which introduces another level of risk which, coupled with the unknown fog periodicity, make coastal sites undesirable for high value crop development at this time.

On a more positive note, the data clearly supports the existence of sweets spots where a desirable balance of all weather variables exists within each study corridor. Clearly, from a weather standpoint each corridor has potential for development in these sweet spots and future efforts need to be directed on other site suitability factors such as soil depth before development work can proceed in vigour. Even more exciting, the data also clearly indicates the existence of some deep inland sites that do not follow the usual trends and demonstrate some surprisingly high heat units, long frost free period, and relatively mild winter minima. Examples of these sites include SH6 and SH7 in the Shelburne corridor, YA5 and YA6 in the Yarmouth corridor, WE5 in the Weymouth corridor, and MI5 in the Middleton corridor. These sites exhibit strong positive meso- and microclimate effects that appear to be related to slope, elevation, and proximity to bodies of water (eg. rivers or lakes) and suggest that there are some surprisingly desirable areas for high value crop production deep in the interior of the province where they would not have been expected to be found by this author. Soil depth data is equally necessary in these areas to fully elaborate the development potential of these areas but from a climate standpoint the data is amazingly positive.

Table 1: 2013 Temperature Data Summary (FF = Frost Free; GDD = Growing Degree Days)

| Station ID | Location | Contact | Deployment Date | Frost Free Start (>0°C) | Frost Free End (<=-2°C >= 2 hours) | Frost Free Days | Total GDD Base 5°C [FFGDD] | Total GDD Base 10°C [FFGDD] | Min Temp (°C) |
|------------|--------------------|---------------------------|-----------------|-------------------------|------------------------------------|-----------------|----------------------------|-----------------------------|---------------|
| AN1 | Parkers Cove | Dennis Kingston | 7/12/2011 | 04/05/13 3:55 | 24/11/13 6:25 | 204.1 | 1859 [1781] | 911 [906] | -18.12 |
| AN2 | Parker Mountain | Stuart Robinson | 7/12/2011 | 04/05/13 3:55 | 29/10/13 23:50 | 178.8 | 1920 [1815] | 1000 [987] | -18.12 |
| AN3 | Granville Ferry | D. Butler & J. Burnell | 7/12/2011 | 18/05/13 22:50 | 13/10/13 5:55 | 147.3 | 1943 [1673] | 1017 [950] | -22.37 |
| AN4 | Annapolis | Susan & Gene Lane | 7/12/2011 | 19/05/13 0:55 | 13/10/13 4:15 | 147.1 | 1987 [1720] | 1072 [1004] | -22.17 |
| AN5 | Milford | Jim Langmire | 7/12/2011 | 19/05/13 1:35 | 13/10/13 6:20 | 147.2 | 1950 [1693] | 1041 [980] | -25.33 |
| AN6 | South Milford | Leslee Fredericks | 7/12/2011 | 29/05/13 6:10 | 13/10/13 3:45 | 136.9 | 1899 [1606] | 1012 [938] | -24.82 |
| AN7 | Maitland Bridge | KNP & NHS | 8/24/2011 | 29/05/13 5:56 | 13/10/13 2:51 | 136.9 | 1948 [1632] | 1042 [962] | -24.77 |
| BI1 | Brier Island | David Pugh | 8/26/2011 | 12/04/13 20:52 | 24/11/13 6:47 | 225.4 | 1764 [1739] | 790 [790] | -14.51 |
| BR1 | Kingsburg | Donna & Scott Fleming | 5/6/2011 | 22/04/13 6:50 | 13/11/13 4:20 | 204.9 | 1769 [1728] | 834 [834] | -17.73 |
| BR2 | Crouse Settlement | Bev Martel | 5/3/2011 | 05/05/13 6:15 | 29/10/13 23:50 | 177.7 | 2102 [1979] | 1159 [1141] | -22.12 |
| BR3 | Bridgewater | Kevin Johnson | 5/5/2011 | 19/05/13 2:10 | 29/10/13 21:32 | 163.8 | 2153 [1917] | 1200 [1139] | -22.37 |
| BR4 | Northfield | Wayne Broom | 5/3/2011 | 19/05/13 2:05 | 29/10/13 7:50 | 163.2 | 2108 [1887] | 1173 [1114] | -24.32 |
| BR5 | New Germany | Bill Woodworth | 6/8/2011 | 20/05/13 3:05 | 13/10/13 6:35 | 146.2 | 2015 [1739] | 1096 [1024] | -26.19 |
| BR6 | Cherryfield | Kevin Munro | 5/5/2011 | 29/05/13 6:20 | 13/10/13 6:30 | 137.0 | 2023 [1690] | 1109 [1017] | -26.08 |
| CH1 | Blanford | Jeff Hogue | 5/17/2011 | 20/05/13 3:50 | 13/10/13 4:45 | 146.0 | 1762 [1525] | 848 [813] | -22.22 |
| CH2 | East Chester | Christopher Field | 5/17/2011 | 19/05/13 2:35 | 30/10/13 2:10 | 164.0 | 1927 [1756] | 1004 [981] | -22.99 |
| CH3 | Chester Grant | Linda & Bruce Brophy | 5/17/2011 | 19/05/13 3:00 | 29/10/13 6:10 | 163.1 | 1974 [1793] | 1067 [1028] | -25.27 |
| CH4 | Seffemsville | Rudy & Donald Seffem | 5/14/2011 | 19/05/13 3:20 | 29/10/13 7:40 | 163.2 | 1972 [1790] | 1068 [1031] | -23.67 |
| CH5 | New Ross | Kelly Munroe | 5/14/2011 | 19/05/13 4:45 | 26/10/13 7:50 | 160.1 | 1897 [1715] | 1007 [967] | -25.61 |
| CH6 | Aldersville | Jackie Russell | 5/14/2011 | 19/05/13 4:50 | 29/10/13 3:20 | 162.9 | 1913 [1733] | 1026 [983] | -23.73 |
| CL1 | Clark's Harbour | Jimmy Newell | 5/11/2011 | 07/04/13 7:30 | 24/11/13 15:35 | 231.3 | 1520 [1497] | 539 [539] | -13.93 |
| CL2 | Bamington | Sid Smith | 4/28/2011 | 19/05/13 4:05 | 30/10/13 0:10 | 163.8 | 1966 [1743] | 985 [953] | -16.66 |
| CL3 | Clyde River | Larry Nickerson | 5/11/2011 | 19/05/13 6:25 | 14/10/13 5:00 | 147.9 | 1886 [1617] | 954 [899] | -20.26 |
| CL4 | Clyde River | Peter Sutherland | 4/28/2011 | 19/05/13 6:45 | 13/10/13 5:45 | 147.0 | 1939 [1668] | 1004 [949] | -20.50 |
| CL5 | Clyde River | Ruth Hemeon | 4/28/2011 | 19/05/13 7:01 | 13/10/13 5:01 | 146.9 | 1973 [1692] | 1033 [971] | -21.08 |
| KE1 | Scotts Bay | Kathleen & Darren Huntley | 7/13/2011 | 29/04/13 5:50 | 30/10/13 2:55 | 183.9 | 1739 [1650] | 815 [803] | -18.74 |
| KE2 | Canning | Simon Rafuse | 7/13/2011 | 19/05/13 2:38 | 29/10/13 6:13 | 163.2 | 2090 [1871] | 1146 [1090] | -21.87 |
| KE3 | Kentville | Jeff Franklin | 7/13/2011 | 19/05/13 3:24 | 29/10/13 23:39 | 163.8 | 2111 [1873] | 1169 [1102] | -23.36 |
| KE4 | South Alton | Dianna & Daniel Niema | 7/13/2011 | 19/05/13 4:00 | 29/10/13 23:50 | 163.8 | 1971 [1777] | 1067 [1017] | -23.15 |
| KE5 | South Forest Home | Kirk Keddy | 7/13/2011 | 20/05/13 4:05 | 13/10/13 1:20 | 145.9 | 1879 [1647] | 1001 [944] | -26.73 |
| LI1 | East Port L'Hebert | Dirk Van Loon | 5/12/2011 | 06/05/13 6:51 | 13/11/13 4:21 | 190.9 | 1901 [1813] | 959 [958] | -18.12 |
| LI2 | Robertson Loop | C. & D. Robertson | 5/12/2011 | 06/05/13 6:25 | 13/11/13 2:31 | 190.8 | 2070 [1965] | 1109 [1109] | -19.24 |
| LI3 | Strawberry Point | Betty Richardson | 5/4/2011 | 22/04/13 6:35 | 30/10/13 7:15 | 191.0 | 1757 [1674] | 820 [811] | -17.34 |
| LI4 | Liverpool | Larry Cochrane | 5/12/2011 | 06/05/13 6:30 | 30/10/13 1:00 | 176.8 | 2065 [1936] | 1117 [1102] | -18.70 |
| LI5 | Middlefield | Hillsview Acres | 5/4/2011 | 19/05/13 2:05 | 29/10/13 23:30 | 163.9 | 2087 [1867] | 1144 [1094] | -20.93 |
| LI6 | South Brookfield | Mel Waterman | 5/4/2011 | 19/05/13 2:15 | 13/10/13 4:50 | 147.1 | 2035 [1752] | 1108 [1034] | -24.00 |

Table 1: 2013 Temperature Data Summary (FF = Frost Free; GDD = Growing Degree Days)

| Station ID | Location | Contact | Deployment Date | Frost Free Start (>0°C) | Frost Free End (<=-2°C >= 2 hours) | Frost Free Days | Total GDD Base 5°C [FFGDD] | Total GDD Base 10°C [FFGDD] | Min Temp (°C) |
|------------|-------------------|--------------------------|-----------------|-------------------------|------------------------------------|-----------------|----------------------------|-----------------------------|---------------|
| MI1 | Moshers Corner | David Colville | 8/13/2011 | 28/04/13 6:10 | 30/10/13 0:10 | 184.8 | 1936 [1840] | 1006 [988] | -19.47 |
| MI2 | Albany | Christine & John Skaling | 7/14/2011 | 29/05/13 6:25 | 13/10/13 0:20 | 136.8 | 1844 [1558] | 974 [899] | -26.67 |
| MI3 | Squirreltown | Don McPherson | 7/14/2011 | 19/05/13 2:03 | 29/10/13 23:33 | 163.9 | 1944 [1750] | 1040 [993] | -21.87 |
| MI4 | Dalhousie | John Blyde | 8/24/2011 | 19/05/13 4:50 | 13/10/13 4:15 | 147.0 | 1952 [1701] | 1049 [989] | -23.41 |
| MI5 | Springfield | Robert Whynot | 7/14/2011 | 19/05/13 0:41 | 30/10/13 1:26 | 164.0 | 1989 [1791] | 1080 [1029] | -22.07 |
| SH1 | Lockes Island | Marilyn & Stewart Moore | 5/12/2011 | 12/04/13 5:55 | 30/10/13 3:45 | 200.9 | 1932 [1855] | 961 [951] | -16.08 |
| SH2 | Sandy Point | Maria Harding | 4/27/2011 | 19/05/13 5:18 | 14/11/13 6:53 | 179.1 | 2001 [1810] | 1016 [994] | -17.13 |
| SH3 | Shelburne | Ivan Spears | 5/12/2011 | 19/05/13 5:45 | 26/10/13 6:15 | 160.0 | 2011 [1788] | 1064 [1018] | -19.75 |
| SH4 | Lower Ohio | Rick Bower | 4/28/2011 | 29/05/13 5:53 | 09/10/13 7:33 | 133.1 | 1911 [1589] | 998 [927] | -21.17 |
| SH5 | Lower Ohio | Rick Bower | 4/27/2011 | 29/05/13 6:45 | 14/10/13 5:25 | 137.9 | 2072 [1715] | 1118 [1032] | -21.08 |
| SH6 | Middle Ohio | Ted Siegel | 4/27/2011 | 19/05/13 5:20 | 29/10/13 7:45 | 163.1 | 2032 [1793] | 1078 [1025] | -19.29 |
| SH7 | Upper Ohio | Leonard Bower | 4/27/2011 | 19/05/13 2:15 | 29/10/13 7:45 | 163.2 | 2050 [1815] | 1093 [1041] | -20.40 |
| WE1 | Sandy Cove | Andre D'Entremont | 5/11/2011 | 05/05/13 6:37 | 29/10/13 20:20 | 177.6 | 1869 [1752] | 915 [906] | -16.33 |
| WE2 | Weymouth North | Paul Weaver | 4/29/2011 | 06/05/13 5:47 | 29/10/13 19:38 | 176.6 | 1936 [1804] | 994 [978] | -16.00 |
| WE3 | Weaver Settlement | Andrew Weaver | 4/21/2011 | 19/05/13 2:06 | 13/10/13 7:11 | 147.2 | 1958 [1677] | 1022 [955] | -17.30 |
| WE4 | Hassett | Nellie & David Russell | 4/29/2011 | 19/05/13 2:50 | 29/10/13 6:10 | 163.1 | 2020 [1793] | 1074 [1023] | -21.08 |
| WE5 | Corberrie | Kevin Gaudet | 4/29/2011 | 06/05/13 7:05 | 30/10/13 2:11 | 176.8 | 2042 [1898] | 1077 [1062] | -20.31 |
| WE6 | Hectanooga | Rudy & Henny Zwaga | 5/11/2011 | 06/05/13 6:51 | 29/10/13 5:31 | 175.9 | 2001 [1862] | 1046 [1030] | -18.92 |
| YA1 | Cheggoggin | Chris Tedford | 4/20/2011 | 28/04/13 6:10 | 04/11/13 23:30 | 190.7 | 1768 [1689] | 809 [807] | -15.43 |
| YA2 | South Ohio | Truman Hurlburt | 4/20/2011 | 06/05/13 5:16 | 29/10/13 22:01 | 176.7 | 1992 [1845] | 1011 [995] | -16.20 |
| YA3 | Deerfield | Neil Nicholl | 4/19/2011 | 27/04/13 6:01 | 29/10/13 22:41 | 185.7 | 1977 [1877] | 1011 [997] | -17.99 |
| YA4 | Pleasant Valley | Leonard Sabine | 4/19/2011 | 19/05/13 4:50 | 26/10/13 5:20 | 160.0 | 1949 [1729] | 1008 [961] | -20.40 |
| YA5 | Kemptville | Kyle Roberts | 4/20/2011 | 06/05/13 6:10 | 29/10/13 6:44 | 176.0 | 2085 [1934] | 1109 [1090] | -19.19 |
| YA6 | East Kemptville | DNR | 4/20/2011 | 04/05/13 6:35 | 04/11/13 5:55 | 184.0 | 2051 [1935] | 1085 [1074] | -18.70 |
| S10 | Moshers Corner | David Colville | 9/3/2002 | 28/04/13 6:10 | 30/10/13 0:15 | 184.8 | 1786 [1707] | 919 [905] | -19.12 |
| S20 | West Nictaux | Ivan Shilliday | 9/9/2003 | 19/05/13 1:45 | 13/10/13 1:40 | 147.0 | 1888 [1664] | 1020 [963] | -26.64 |
| S30 | Middleton | David Colville | 9/9/2003 | 06/05/13 6:30 | 13/10/13 5:25 | 160.0 | 2034 [1844] | 1100 [1071] | -29.92 |
| S40 | South Mountain | Gregory Dixon | 5/12/2004 | 28/04/13 6:15 | 30/10/13 1:45 | 184.8 | 1849 [1775] | 964 [953] | -20.31 |
| S60 | Sheffield Mills | Dale Hebb | 9/19/2003 | 28/05/13 8:40 | 29/10/13 6:30 | 153.9 | 1980 [1813] | 1062 [1038] | -22.13 |
| S70 | Nictaux South | Marian & Gordon Foster | 9/16/2003 | 19/05/13 5:50 | 29/10/13 7:50 | 163.1 | 1826 [1654] | 953 [908] | -22.38 |
| S80 | Port Royal | Allan Sloan | 9/30/2003 | 06/05/13 0:35 | 13/10/13 6:05 | 160.2 | 1792 [1692] | 858 [841] | -19.25 |
| S90 | Gaspereau | Chris Wescott | 9/30/2003 | 19/05/13 3:05 | 29/10/13 7:25 | 163.2 | 2070 [1852] | 1138 [1078] | -23.23 |
| S100 | Marshalltown | Carl Seely | 9/30/2003 | 19/05/13 4:50 | 13/10/13 2:35 | 146.9 | 1649 [1470] | 734 [724] | -21.35 |
| S120 | Ross Creek | Bill Crowson | 5/17/2004 | 19/05/13 3:50 | 29/10/13 23:59 | 163.8 | 1762 [1608] | 888 [857] | -21.15 |
| S130 | Bear River | Phyllis & Robert Wood | 5/13/2004 | 05/05/13 6:55 | 30/10/13 1:25 | 177.8 | 1925 [1820] | 1010 [996] | -17.11 |
| S140 | Morristown | Neil Clem | 6/23/2005 | 19/05/13 6:30 | 29/10/13 5:35 | 163.0 | 1828 [1655] | 953 [911] | -19.48 |
| S160 | Lily Lake | John Briere | 12/15/2006 | 19/05/13 6:25 | 30/10/13 8:20 | 164.1 | 1836 [1669] | 946 [908] | -19.07 |

Table 2: 2013 Base 5°C Heat Unit Accumulation within April to November Period (FFGDD = Frost Free Growing Degree Days; GDD = Growing Degree Days)

| StationID | Location | Contact | Deployment Date | Apr GDD [FFGDD] | May GDD [FFGDD] | Jun GDD [FFGDD] | Jul GDD [FFGDD] | Aug GDD [FFGDD] | Sep GDD [FFGDD] | Oct GDD [FFGDD] | Nov GDD [FFGDD] | Total GDD [FFGDD] |
|-----------|--------------------|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| AN1 | Parkers Cove | Dennis Kingston | 7/12/2011 | 42 [0] | 186 [175] | 300 [300] | 419 [419] | 389 [389] | 291 [291] | 158 [158] | 57 [49] | 1842 [1781] |
| AN2 | Parker Mountain | Stuart Robinson | 7/12/2011 | 42 [0] | 191 [180] | 330 [330] | 454 [454] | 415 [415] | 290 [290] | 146 [146] | 40 [0] | 1908 [1815] |
| AN3 | Granville Ferry | D. Butler & J. Burnell | 7/12/2011 | 49 [0] | 199 [96] | 328 [328] | 468 [468] | 415 [415] | 294 [294] | 131 [72] | 44 [0] | 1928 [1673] |
| AN4 | Annapolis | Susan & Gene Lane | 7/12/2011 | 47 [0] | 208 [95] | 345 [345] | 496 [496] | 420 [420] | 293 [293] | 127 [71] | 38 [0] | 1974 [1720] |
| AN5 | Milford | Jim Langmire | 7/12/2011 | 45 [0] | 202 [87] | 341 [341] | 494 [494] | 414 [414] | 282 [282] | 130 [75] | 33 [0] | 1941 [1693] |
| AN6 | South Milford | Leslee Fredericks | 7/12/2011 | 41 [0] | 191 [27] | 334 [334] | 491 [491] | 405 [405] | 278 [278] | 118 [71] | 32 [0] | 1890 [1606] |
| AN7 | Maitland Bridge | KNP & NHS | 8/24/2011 | 45 [0] | 207 [28] | 344 [344] | 498 [498] | 410 [410] | 278 [278] | 123 [74] | 33 [0] | 1938 [1632] |
| BI1 | Brier Island | David Pugh | 8/26/2011 | 34 [31] | 161 [161] | 264 [264] | 404 [404] | 374 [374] | 275 [275] | 183 [183] | 53 [47] | 1748 [1739] |
| BR1 | Kingsburg | Donna & Scott Fleming | 5/6/2011 | 30 [16] | 135 [135] | 265 [265] | 439 [439] | 356 [356] | 296 [296] | 192 [192] | 46 [29] | 1759 [1728] |
| BR2 | Crouse Settlement | Bev Martel | 5/3/2011 | 50 [0] | 190 [172] | 356 [356] | 511 [511] | 446 [446] | 326 [326] | 168 [168] | 44 [0] | 2091 [1979] |
| BR3 | Bridgewater | Kevin Johnson | 5/5/2011 | 54 [0] | 216 [95] | 373 [373] | 519 [519] | 447 [447] | 324 [324] | 159 [159] | 47 [0] | 2139 [1917] |
| BR4 | Northfield | Wayne Broom | 5/3/2011 | 51 [0] | 212 [95] | 363 [363] | 519 [519] | 447 [447] | 314 [314] | 149 [149] | 41 [0] | 2096 [1887] |
| BR5 | New Germany | Bill Woodworth | 6/8/2011 | 51 [0] | 209 [90] | 355 [355] | 503 [503] | 422 [422] | 293 [293] | 131 [76] | 37 [0] | 2001 [1739] |
| BR6 | Cherryfield | Kevin Munro | 5/5/2011 | 49 [0] | 216 [33] | 376 [376] | 500 [500] | 414 [414] | 291 [291] | 130 [76] | 35 [0] | 2011 [1690] |
| CH1 | Blanford | Jeff Hogue | 5/17/2011 | 30 [0] | 144 [69] | 279 [279] | 448 [448] | 359 [359] | 290 [290] | 160 [80] | 42 [0] | 1752 [1525] |
| CH2 | East Chester | Christopher Field | 5/17/2011 | 38 [0] | 160 [75] | 314 [314] | 489 [489] | 411 [411] | 300 [300] | 167 [167] | 40 [0] | 1919 [1756] |
| CH3 | Chester Grant | Linda & Bruce Brophy | 5/17/2011 | 40 [0] | 177 [82] | 341 [341] | 496 [496] | 430 [430] | 301 [301] | 143 [143] | 38 [0] | 1966 [1793] |
| CH4 | Seffersville | Rudy & Donald Seffern | 5/14/2011 | 44 [0] | 179 [83] | 342 [342] | 497 [497] | 428 [428] | 298 [298] | 142 [142] | 33 [0] | 1963 [1790] |
| CH5 | New Ross | Kelly Munroe | 5/14/2011 | 42 [0] | 184 [84] | 332 [332] | 485 [485] | 404 [404] | 290 [290] | 121 [120] | 31 [0] | 1889 [1715] |
| CH6 | Aldersville | Jackie Russell | 5/14/2011 | 40 [0] | 188 [86] | 334 [334] | 480 [480] | 420 [420] | 284 [284] | 129 [129] | 31 [0] | 1906 [1733] |
| CL1 | Clark's Harbour | Jimmy Newell | 5/11/2011 | 35 [35] | 139 [139] | 226 [226] | 309 [309] | 278 [278] | 246 [246] | 211 [211] | 61 [53] | 1505 [1497] |
| CL2 | Barrington | Sid Smith | 4/28/2011 | 54 [0] | 185 [83] | 315 [315] | 464 [464] | 405 [405] | 293 [293] | 184 [183] | 48 [0] | 1948 [1743] |
| CL3 | Clyde River | Larry Nickerson | 5/11/2011 | 43 [0] | 173 [80] | 320 [320] | 465 [465] | 393 [393] | 274 [274] | 152 [85] | 46 [0] | 1866 [1617] |
| CL4 | Clyde River | Peter Sutherland | 4/28/2011 | 43 [0] | 183 [83] | 330 [330] | 485 [485] | 407 [407] | 280 [280] | 148 [83] | 43 [0] | 1919 [1668] |
| CL5 | Clyde River | Ruth Hemeon | 4/28/2011 | 50 [0] | 190 [86] | 332 [332] | 490 [490] | 415 [415] | 286 [286] | 146 [83] | 46 [0] | 1955 [1692] |
| KE1 | Scotts Bay | Kathleen & Darren Huntley | 7/13/2011 | 34 [5] | 159 [159] | 255 [255] | 398 [398] | 370 [370] | 304 [304] | 159 [159] | 49 [0] | 1728 [1650] |
| KE2 | Canning | Simon Rafuse | 7/13/2011 | 52 [0] | 217 [104] | 345 [345] | 506 [506] | 435 [435] | 324 [324] | 157 [157] | 42 [0] | 2078 [1871] |
| KE3 | Kentville | Jeff Franklin | 7/13/2011 | 56 [0] | 226 [102] | 361 [361] | 509 [509] | 441 [441] | 313 [313] | 147 [147] | 43 [0] | 2096 [1873] |
| KE4 | South Alton | Dianna & Daniel Niema | 7/13/2011 | 45 [0] | 201 [91] | 343 [343] | 490 [490] | 425 [425] | 293 [293] | 135 [135] | 31 [0] | 1963 [1777] |
| KE5 | South Forest Home | Kirk Keddy | 7/13/2011 | 40 [0] | 194 [85] | 336 [336] | 476 [476] | 408 [408] | 283 [283] | 105 [59] | 30 [0] | 1872 [1647] |
| LI1 | East Port L'Hebert | Dirk Van Loon | 5/12/2011 | 41 [0] | 166 [151] | 301 [301] | 461 [461] | 391 [391] | 303 [303] | 179 [179] | 43 [27] | 1885 [1813] |
| LI2 | Robertson Loop | C. & D. Robertson | 5/12/2011 | 50 [0] | 185 [166] | 341 [341] | 494 [494] | 432 [432] | 320 [320] | 183 [183] | 47 [29] | 2052 [1965] |
| LI3 | Strawberry Point | Betty Richardson | 5/4/2011 | 37 [15] | 140 [140] | 265 [265] | 435 [435] | 349 [349] | 288 [288] | 184 [182] | 45 [0] | 1743 [1674] |
| LI4 | Liverpool | Larry Cochrane | 5/12/2011 | 48 [0] | 181 [163] | 346 [346] | 501 [501] | 430 [430] | 322 [322] | 175 [174] | 46 [0] | 2049 [1936] |
| LI5 | Middlefield | Hillsview Acres | 5/4/2011 | 48 [0] | 200 [90] | 353 [353] | 506 [506] | 438 [438] | 315 [315] | 166 [165] | 47 [0] | 2073 [1867] |
| LI6 | South Brookfield | Mel Waterman | 5/4/2011 | 49 [0] | 214 [91] | 355 [355] | 512 [512] | 423 [423] | 293 [293] | 138 [78] | 39 [0] | 2023 [1752] |

Table 2: 2013 Base 5°C Heat Unit Accumulation within April to November Period (FFGDD = Frost Free Growing Degree Days; GDD = Growing Degree Days)

| StationID | Location | Contact | Deployment Date | Apr GDD [FFGDD] | May GDD [FFGDD] | Jun GDD [FFGDD] | Jul GDD [FFGDD] | Aug GDD [FFGDD] | Sep GDD [FFGDD] | Oct GDD [FFGDD] | Nov GDD [FFGDD] | Total GDD [FFGDD] |
|-----------|-------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| MI1 | Moshers Corner | David Colville | 8/13/2011 | 42 [7] | 184 [184] | 319 [319] | 466 [466] | 408 [408] | 299 [299] | 157 [157] | 46 [0] | 1921 [1840] |
| MI2 | Albany | Christine & John Skaling | 7/14/2011 | 41 [0] | 196 [27] | 326 [326] | 476 [476] | 398 [398] | 272 [272] | 100 [59] | 27 [0] | 1836 [1558] |
| MI3 | Squirreltown | Don McPherson | 7/14/2011 | 43 [0] | 202 [90] | 338 [338] | 489 [489] | 416 [416] | 285 [285] | 132 [132] | 31 [0] | 1936 [1750] |
| MI4 | Dalhousie | John Blyde | 8/24/2011 | 47 [0] | 200 [87] | 339 [339] | 492 [492] | 422 [422] | 286 [286] | 127 [75] | 31 [0] | 1944 [1701] |
| MI5 | Springfield | Robert Whynot | 7/14/2011 | 46 [0] | 198 [86] | 338 [338] | 500 [500] | 428 [428] | 298 [298] | 141 [141] | 33 [0] | 1982 [1791] |
| SH1 | Lockes Island | Marilyn & Stewart Moore | 5/12/2011 | 43 [33] | 174 [174] | 319 [319] | 450 [450] | 382 [382] | 296 [296] | 202 [201] | 47 [0] | 1913 [1855] |
| SH2 | Sandy Point | Maria Harding | 4/27/2011 | 48 [0] | 183 [85] | 331 [331] | 474 [474] | 404 [404] | 295 [295] | 186 [186] | 58 [35] | 1979 [1810] |
| SH3 | Shelburne | Ivan Spears | 5/12/2011 | 51 [0] | 198 [88] | 352 [352] | 490 [490] | 411 [411] | 293 [293] | 158 [154] | 41 [0] | 1994 [1788] |
| SH4 | Lower Ohio | Rick Bower | 4/28/2011 | 44 [0] | 181 [28] | 333 [333] | 490 [490] | 398 [398] | 276 [276] | 132 [64] | 40 [0] | 1894 [1589] |
| SH5 | Lower Ohio | Rick Bower | 4/27/2011 | 59 [0] | 204 [29] | 354 [354] | 511 [511] | 430 [430] | 301 [301] | 154 [90] | 43 [0] | 2056 [1715] |
| SH6 | Middle Ohio | Ted Siegel | 4/27/2011 | 57 [0] | 206 [88] | 351 [351] | 467 [467] | 424 [424] | 294 [294] | 170 [169] | 46 [0] | 2015 [1793] |
| SH7 | Upper Ohio | Leonard Bower | 4/27/2011 | 53 [0] | 202 [85] | 346 [346] | 498 [498] | 424 [424] | 300 [300] | 163 [162] | 47 [0] | 2033 [1815] |
| WE1 | Sandy Cove | Andre D'Entremont | 5/11/2011 | 41 [0] | 182 [166] | 299 [299] | 447 [447] | 404 [404] | 282 [282] | 155 [154] | 44 [0] | 1854 [1752] |
| WE2 | Weymouth North | Paul Weaver | 4/29/2011 | 45 [0] | 190 [174] | 323 [323] | 465 [465] | 406 [406] | 286 [286] | 151 [150] | 48 [0] | 1914 [1804] |
| WE3 | Weaver Settlement | Andrew Weaver | 4/21/2011 | 44 [0] | 198 [91] | 332 [332] | 481 [481] | 412 [412] | 284 [284] | 143 [77] | 44 [0] | 1938 [1677] |
| WE4 | Hassett | Nellie & David Russell | 4/29/2011 | 51 [0] | 208 [91] | 342 [342] | 504 [504] | 422 [422] | 289 [289] | 145 [145] | 44 [0] | 2005 [1793] |
| WE5 | Corberrie | Kevin Gaudet | 4/29/2011 | 53 [0] | 211 [183] | 341 [341] | 500 [500] | 426 [426] | 288 [288] | 162 [160] | 43 [0] | 2024 [1898] |
| WE6 | Hectanooga | Rudy & Henny Zwaga | 5/11/2011 | 49 [0] | 208 [179] | 339 [339] | 481 [481] | 421 [421] | 287 [287] | 156 [155] | 42 [0] | 1983 [1862] |
| YA1 | Cheggoggin | Chris Tedford | 4/20/2011 | 32 [6] | 168 [168] | 276 [276] | 414 [414] | 365 [365] | 265 [265] | 177 [177] | 53 [18] | 1750 [1689] |
| YA2 | South Ohio | Truman Hurlburt | 4/20/2011 | 48 [0] | 198 [170] | 322 [322] | 471 [471] | 414 [414] | 290 [290] | 179 [178] | 49 [0] | 1971 [1845] |
| YA3 | Deerfield | Neil Nicholl | 4/19/2011 | 49 [15] | 197 [197] | 320 [320] | 472 [472] | 415 [415] | 287 [287] | 173 [171] | 45 [0] | 1958 [1877] |
| YA4 | Pleasant Valley | Leonard Sabine | 4/19/2011 | 45 [0] | 198 [84] | 332 [332] | 485 [485] | 408 [408] | 275 [275] | 149 [145] | 41 [0] | 1933 [1729] |
| YA5 | Kemptville | Kyle Roberts | 4/20/2011 | 59 [0] | 217 [187] | 341 [341] | 501 [501] | 433 [433] | 298 [298] | 175 [174] | 45 [0] | 2069 [1934] |
| YA6 | East Kemptville | DNR | 4/20/2011 | 54 [0] | 209 [188] | 339 [339] | 490 [490] | 426 [426] | 293 [293] | 181 [181] | 45 [18] | 2037 [1935] |
| S10 | Moshers Corner | David Colville | 9/3/2002 | 36 [6] | 175 [175] | 306 [306] | 454 [454] | 350 [350] | 278 [278] | 138 [138] | 37 [0] | 1774 [1707] |
| S20 | West Nictaux | Ivan Shilliday | 9/9/2003 | 41 [0] | 204 [98] | 340 [340] | 481 [481] | 403 [403] | 275 [275] | 117 [67] | 13 [0] | 1874 [1664] |
| S30 | Middleton | David Colville | 9/9/2003 | 63 [0] | 207 [188] | 354 [354] | 498 [498] | 426 [426] | 303 [303] | 135 [75] | 28 [0] | 2014 [1844] |
| S40 | South Mountain | Gregory Dixon | 5/12/2004 | 33 [0] | 178 [178] | 313 [313] | 467 [467] | 403 [403] | 283 [283] | 131 [131] | 33 [0] | 1841 [1775] |
| S60 | Sheffield Mills | Dale Hebb | 9/19/2003 | 41 [0] | 177 [98] | 351 [351] | 470 [470] | 434 [434] | 310 [310] | 150 [150] | 37 [0] | 1970 [1813] |
| S70 | Nictaux South | Marian & Gordon Foster | 9/16/2003 | 34 [0] | 182 [83] | 322 [322] | 469 [469] | 394 [394] | 269 [269] | 117 [117] | 31 [0] | 1818 [1654] |
| S80 | Port Royal | Allan Sloan | 9/30/2003 | 43 [0] | 190 [190] | 296 [296] | 428 [428] | 386 [386] | 254 [254] | 138 [138] | 44 [0] | 1779 [1692] |
| S90 | Gaspereau | Chris Wescott | 9/30/2003 | 48 [0] | 216 [100] | 348 [348] | 503 [503] | 439 [439] | 316 [316] | 146 [146] | 41 [0] | 2057 [1852] |
| S100 | Marshalltown | Carl Seely | 9/30/2003 | 37 [0] | 182 [162] | 279 [279] | 324 [324] | 374 [374] | 273 [273] | 127 [70] | 39 [0] | 1635 [1470] |
| S120 | Ross Creek | Bill Crowson | 5/17/2004 | 37 [0] | 161 [78] | 291 [291] | 441 [441] | 394 [394] | 275 [275] | 129 [129] | 30 [0] | 1758 [1608] |
| S130 | Bear River | Phyllis & Robert Wood | 5/13/2004 | 43 [0] | 196 [181] | 327 [327] | 473 [473] | 417 [417] | 281 [281] | 141 [141] | 38 [0] | 1916 [1820] |
| S140 | Morristown | Neil Clem | 6/23/2005 | 39 [0] | 184 [84] | 317 [317] | 469 [469] | 398 [398] | 271 [271] | 116 [116] | 29 [0] | 1823 [1655] |
| S160 | Lily Lake | John Briere | 12/15/2006 | 42 [32] | 186 [186] | 265 [265] | 412 [412] | 411 [411] | 322 [322] | 163 [163] | 62 [52] | 1826 [1669] |

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| StationID | Location | Contact | Deployment Date | Apr GDD [FFGDD] | May GDD [FFGDD] | Jun GDD [FFGDD] | Jul GDD [FFGDD] | Aug GDD [FFGDD] | Sep GDD [FFGDD] | Oct GDD [FFGDD] | Nov GDD [FFGDD] | Total GDD [FFGDD] |
|-----------|--------------------|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| AN1 | Parkers Cove | Dennis Kingston | 7/12/2011 | 5 [0] | 65 [65] | 150 [150] | 264 [264] | 234 [234] | 142 [142] | 38 [38] | 13 [13] | 911 [906] |
| AN2 | Parker Mountain | Stuart Robinson | 7/12/2011 | 5 [0] | 70 [70] | 180 [180] | 299 [299] | 260 [260] | 142 [142] | 36 [36] | 8 [0] | 1000 [987] |
| AN3 | Granville Ferry | D. Butler & J. Burnell | 7/12/2011 | 9 [0] | 71 [37] | 178 [178] | 313 [313] | 260 [260] | 144 [144] | 30 [18] | 12 [0] | 1017 [950] |
| AN4 | Annapolis | Susan & Gene Lane | 7/12/2011 | 7 [0] | 80 [40] | 195 [195] | 341 [341] | 265 [265] | 145 [145] | 29 [18] | 10 [0] | 1072 [1004] |
| AN5 | Milford | Jim Langmire | 7/12/2011 | 4 [0] | 74 [35] | 191 [191] | 339 [339] | 259 [259] | 136 [136] | 31 [20] | 7 [0] | 1041 [980] |
| AN6 | South Milford | Leslee Fredericks | 7/12/2011 | 4 [0] | 71 [17] | 184 [184] | 336 [336] | 250 [250] | 134 [134] | 27 [17] | 6 [0] | 1012 [938] |
| AN7 | Maitland Bridge | KNP & NHS | 8/24/2011 | 4 [0] | 77 [18] | 194 [194] | 343 [343] | 255 [255] | 133 [133] | 29 [19] | 7 [0] | 1042 [962] |
| BI1 | Brier Island | David Pugh | 8/26/2011 | 0 [0] | 26 [26] | 114 [114] | 249 [249] | 219 [219] | 125 [125] | 49 [49] | 8 [8] | 790 [790] |
| BR1 | Kingsburg | Donna & Scott Fleming | 5/6/2011 | 0 [0] | 20 [20] | 115 [115] | 284 [284] | 201 [201] | 146 [146] | 62 [62] | 6 [6] | 834 [834] |
| BR2 | Crouse Settlement | Bev Martel | 5/3/2011 | 5 [0] | 62 [60] | 206 [206] | 356 [356] | 291 [291] | 176 [176] | 52 [52] | 11 [0] | 1159 [1141] |
| BR3 | Bridgewater | Kevin Johnson | 5/5/2011 | 8 [0] | 82 [42] | 223 [223] | 364 [364] | 292 [292] | 174 [174] | 44 [44] | 13 [0] | 1200 [1139] |
| BR4 | Northfield | Wayne Broom | 5/3/2011 | 8 [0] | 81 [41] | 213 [213] | 364 [364] | 292 [292] | 165 [165] | 39 [39] | 11 [0] | 1173 [1114] |
| BR5 | New Germany | Bill Woodworth | 6/8/2011 | 8 [0] | 81 [39] | 205 [205] | 348 [348] | 267 [267] | 146 [146] | 30 [19] | 11 [0] | 1096 [1024] |
| BR6 | Cherryfield | Kevin Munro | 5/5/2011 | 7 [0] | 89 [23] | 226 [226] | 345 [345] | 259 [259] | 144 [144] | 31 [20] | 8 [0] | 1109 [1017] |
| CH1 | Blanford | Jeff Hogue | 5/17/2011 | 0 [0] | 29 [21] | 129 [129] | 293 [293] | 204 [204] | 142 [142] | 43 [24] | 8 [0] | 848 [813] |
| CH2 | East Chester | Christopher Field | 5/17/2011 | 0 [0] | 39 [27] | 164 [164] | 334 [334] | 256 [256] | 150 [150] | 50 [50] | 11 [0] | 1004 [981] |
| CH3 | Chester Grant | Linda & Bruce Brophy | 5/17/2011 | 6 [0] | 54 [31] | 191 [191] | 341 [341] | 275 [275] | 152 [152] | 38 [38] | 10 [0] | 1067 [1028] |
| CH4 | Seffersville | Rudy & Donald Seffern | 5/14/2011 | 5 [0] | 58 [34] | 192 [192] | 342 [342] | 273 [273] | 152 [152] | 38 [38] | 8 [0] | 1068 [1031] |
| CH5 | New Ross | Kelly Munroe | 5/14/2011 | 6 [0] | 60 [33] | 182 [182] | 330 [330] | 249 [249] | 144 [144] | 29 [29] | 7 [0] | 1007 [967] |
| CH6 | Aldersville | Jackie Russell | 5/14/2011 | 4 [0] | 69 [36] | 185 [185] | 325 [325] | 265 [265] | 141 [141] | 31 [31] | 6 [0] | 1026 [983] |
| CL1 | Clark's Harbour | Jimmy Newell | 5/11/2011 | 0 [0] | 9 [9] | 76 [76] | 154 [154] | 123 [123] | 96 [96] | 73 [73] | 8 [8] | 539 [539] |
| CL2 | Barrington | Sid Smith | 4/28/2011 | 0 [0] | 49 [27] | 165 [165] | 309 [309] | 250 [250] | 143 [143] | 59 [59] | 10 [0] | 985 [953] |
| CL3 | Clyde River | Larry Nickerson | 5/11/2011 | 0 [0] | 51 [29] | 170 [170] | 310 [310] | 238 [238] | 125 [125] | 45 [27] | 15 [0] | 954 [899] |
| CL4 | Clyde River | Peter Sutherland | 4/28/2011 | 1 [0] | 55 [30] | 180 [180] | 330 [330] | 252 [252] | 132 [132] | 41 [25] | 13 [0] | 1004 [949] |
| CL5 | Clyde River | Ruth Hemeon | 4/28/2011 | 4 [0] | 60 [31] | 182 [182] | 335 [335] | 260 [260] | 137 [137] | 40 [26] | 15 [0] | 1033 [971] |
| KE1 | Scotts Bay | Kathleen & Darren Huntley | 7/13/2011 | 2 [0] | 43 [43] | 105 [105] | 243 [243] | 215 [215] | 154 [154] | 43 [43] | 10 [0] | 815 [803] |
| KE2 | Canning | Simon Rafuse | 7/13/2011 | 13 [0] | 81 [47] | 195 [195] | 351 [351] | 280 [280] | 174 [174] | 43 [43] | 9 [0] | 1146 [1090] |
| KE3 | Kentville | Jeff Franklin | 7/13/2011 | 11 [0] | 91 [46] | 211 [211] | 354 [354] | 286 [286] | 165 [165] | 40 [40] | 11 [0] | 1169 [1102] |
| KE4 | South Alton | Dianna & Daniel Niema | 7/13/2011 | 6 [0] | 75 [37] | 193 [193] | 335 [335] | 270 [270] | 148 [148] | 34 [34] | 6 [0] | 1067 [1017] |
| KE5 | South Forest Home | Kirk Keddy | 7/13/2011 | 5 [0] | 69 [33] | 186 [186] | 321 [321] | 253 [253] | 137 [137] | 23 [14] | 7 [0] | 1001 [944] |
| LI1 | East Port L'Hebert | Dirk Van Loon | 5/12/2011 | 0 [0] | 45 [45] | 151 [151] | 306 [306] | 236 [236] | 154 [154] | 58 [58] | 9 [8] | 959 [958] |
| LI2 | Robertson Loop | C. & D. Robertson | 5/12/2011 | 0 [0] | 59 [59] | 191 [191] | 339 [339] | 277 [277] | 171 [171] | 61 [61] | 11 [11] | 1109 [1109] |
| LI3 | Strawberry Point | Betty Richardson | 5/4/2011 | 0 [0] | 25 [25] | 116 [116] | 280 [280] | 194 [194] | 138 [138] | 58 [58] | 9 [0] | 820 [811] |
| LI4 | Liverpool | Larry Cochrane | 5/12/2011 | 2 [0] | 57 [57] | 196 [196] | 346 [346] | 275 [275] | 172 [172] | 56 [56] | 13 [0] | 1117 [1102] |
| LI5 | Middlefield | Hillsview Acres | 5/4/2011 | 4 [0] | 70 [37] | 204 [204] | 351 [351] | 283 [283] | 168 [168] | 51 [51] | 13 [0] | 1144 [1094] |
| LI6 | South Brookfield | Mel Waterman | 5/4/2011 | 7 [0] | 80 [37] | 205 [205] | 357 [357] | 268 [268] | 147 [147] | 34 [20] | 10 [0] | 1108 [1034] |

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| StationID | Location | Contact | Deployment Date | Apr GDD [FFGDD] | May GDD [FFGDD] | Jun GDD [FFGDD] | Jul GDD [FFGDD] | Aug GDD [FFGDD] | Sep GDD [FFGDD] | Oct GDD [FFGDD] | Nov GDD [FFGDD] | Total GDD [FFGDD] |
|-----------|-------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| MI1 | Moshers Corner | David Colville | 8/13/2011 | 8 [0] | 61 [61] | 169 [169] | 311 [311] | 253 [253] | 150 [150] | 44 [44] | 10 [0] | 1006 [988] |
| MI2 | Albany | Christine & John Skaling | 7/14/2011 | 4 [0] | 75 [17] | 177 [177] | 321 [321] | 243 [243] | 128 [128] | 21 [13] | 5 [0] | 974 [899] |
| MI3 | Squirreltown | Don McPherson | 7/14/2011 | 3 [0] | 77 [38] | 189 [189] | 334 [334] | 261 [261] | 139 [139] | 32 [32] | 5 [0] | 1040 [993] |
| MI4 | Dalhousie | John Blyde | 8/24/2011 | 5 [0] | 75 [36] | 189 [189] | 337 [337] | 267 [267] | 142 [142] | 28 [18] | 6 [0] | 1049 [989] |
| MI5 | Springfield | Robert Whynot | 7/14/2011 | 5 [0] | 75 [36] | 188 [188] | 345 [345] | 273 [273] | 153 [153] | 34 [34] | 7 [0] | 1080 [1029] |
| SH1 | Lockes Island | Marilyn & Stewart Moore | 5/12/2011 | 0 [0] | 42 [42] | 169 [169] | 295 [295] | 227 [227] | 146 [146] | 72 [72] | 10 [0] | 961 [951] |
| SH2 | Sandy Point | Maria Harding | 4/27/2011 | 0 [0] | 52 [31] | 181 [181] | 319 [319] | 249 [249] | 146 [146] | 57 [57] | 12 [11] | 1016 [994] |
| SH3 | Shelburne | Ivan Spears | 5/12/2011 | 2 [0] | 64 [33] | 202 [202] | 335 [335] | 256 [256] | 144 [144] | 48 [48] | 13 [0] | 1064 [1018] |
| SH4 | Lower Ohio | Rick Bower | 4/28/2011 | 3 [0] | 59 [18] | 183 [183] | 335 [335] | 243 [243] | 128 [128] | 34 [20] | 13 [0] | 998 [927] |
| SH5 | Lower Ohio | Rick Bower | 4/27/2011 | 6 [0] | 70 [19] | 204 [204] | 356 [356] | 275 [275] | 151 [151] | 44 [27] | 12 [0] | 1118 [1032] |
| SH6 | Middle Ohio | Ted Siegel | 4/27/2011 | 5 [0] | 70 [35] | 201 [201] | 322 [322] | 269 [269] | 144 [144] | 54 [54] | 13 [0] | 1078 [1025] |
| SH7 | Upper Ohio | Leonard Bower | 4/27/2011 | 4 [0] | 67 [33] | 196 [196] | 343 [343] | 269 [269] | 151 [151] | 49 [49] | 14 [0] | 1093 [1041] |
| WE1 | Sandy Cove | Andre D'Entremont | 5/11/2011 | 1 [0] | 49 [48] | 149 [149] | 292 [292] | 249 [249] | 132 [132] | 36 [36] | 7 [0] | 915 [906] |
| WE2 | Weymouth North | Paul Weaver | 4/29/2011 | 5 [0] | 68 [68] | 173 [173] | 310 [310] | 251 [251] | 137 [137] | 39 [39] | 11 [0] | 994 [978] |
| WE3 | Weaver Settlement | Andrew Weaver | 4/21/2011 | 4 [0] | 71 [34] | 182 [182] | 326 [326] | 257 [257] | 135 [135] | 35 [21] | 12 [0] | 1022 [955] |
| WE4 | Hassett | Nellie & David Russell | 4/29/2011 | 4 [0] | 73 [35] | 192 [192] | 349 [349] | 267 [267] | 141 [141] | 39 [39] | 9 [0] | 1074 [1023] |
| WE5 | Corberrie | Kevin Gaudet | 4/29/2011 | 4 [0] | 71 [70] | 191 [191] | 345 [345] | 271 [271] | 140 [140] | 45 [45] | 10 [0] | 1077 [1062] |
| WE6 | Hectanooga | Rudy & Henny Zwaga | 5/11/2011 | 4 [0] | 69 [67] | 189 [189] | 326 [326] | 266 [266] | 139 [139] | 43 [43] | 10 [0] | 1046 [1030] |
| YA1 | Cheggoggin | Chris Tedford | 4/20/2011 | 0 [0] | 38 [38] | 126 [126] | 259 [259] | 210 [210] | 116 [116] | 51 [51] | 9 [7] | 809 [807] |
| YA2 | South Ohio | Truman Hurlburt | 4/20/2011 | 2 [0] | 57 [53] | 172 [172] | 316 [316] | 259 [259] | 140 [140] | 55 [55] | 10 [0] | 1011 [995] |
| YA3 | Deerfield | Neil Nicholl | 4/19/2011 | 3 [0] | 59 [59] | 170 [170] | 317 [317] | 260 [260] | 138 [138] | 53 [53] | 11 [0] | 1011 [997] |
| YA4 | Pleasant Valley | Leonard Sabine | 4/19/2011 | 3 [0] | 61 [28] | 182 [182] | 330 [330] | 253 [253] | 126 [126] | 42 [42] | 11 [0] | 1008 [961] |
| YA5 | Kemptville | Kyle Roberts | 4/20/2011 | 5 [0] | 73 [70] | 191 [191] | 346 [346] | 278 [278] | 148 [148] | 57 [57] | 11 [0] | 1109 [1090] |
| YA6 | East Kemptville | DNR | 4/20/2011 | 5 [0] | 70 [67] | 189 [189] | 335 [335] | 271 [271] | 144 [144] | 60 [60] | 11 [8] | 1085 [1074] |
| S10 | Moshers Corner | David Colville | 9/3/2002 | 5 [0] | 56 [56] | 157 [157] | 299 [299] | 228 [228] | 131 [131] | 34 [34] | 9 [0] | 919 [905] |
| S20 | West Nictaux | Ivan Shilliday | 9/9/2003 | 7 [0] | 80 [44] | 190 [190] | 326 [326] | 248 [248] | 138 [138] | 26 [17] | 3 [0] | 1018 [963] |
| S30 | Middleton | David Colville | 9/9/2003 | 9 [0] | 79 [79] | 204 [204] | 343 [343] | 271 [271] | 153 [153] | 32 [21] | 9 [0] | 1100 [1071] |
| S40 | South Mountain | Gregory Dixon | 5/12/2004 | 4 [0] | 62 [62] | 164 [164] | 312 [312] | 248 [248] | 137 [137] | 30 [30] | 7 [0] | 964 [953] |
| S60 | Sheffield Mills | Dale Hebb | 9/19/2003 | 5 [0] | 52 [43] | 201 [201] | 315 [315] | 279 [279] | 160 [160] | 40 [40] | 10 [0] | 1062 [1038] |
| S70 | Nictaux South | Marian & Gordon Foster | 9/16/2003 | 3 [0] | 67 [34] | 173 [173] | 314 [314] | 239 [239] | 124 [124] | 24 [24] | 9 [0] | 953 [908] |
| S80 | Port Royal | Allan Sloan | 9/30/2003 | 6 [0] | 55 [55] | 146 [146] | 273 [273] | 231 [231] | 106 [106] | 30 [30] | 11 [0] | 858 [841] |
| S90 | Gaspereau | Chris Wescott | 9/30/2003 | 10 [0] | 83 [44] | 198 [198] | 348 [348] | 284 [284] | 167 [167] | 37 [37] | 11 [0] | 1138 [1078] |
| S100 | Marshalltown | Carl Seely | 9/30/2003 | 3 [0] | 53 [52] | 130 [130] | 169 [169] | 219 [219] | 125 [125] | 27 [18] | 8 [0] | 734 [724] |
| S120 | Ross Creek | Bill Crowson | 5/17/2004 | 5 [0] | 49 [29] | 142 [142] | 286 [286] | 239 [239] | 130 [130] | 31 [31] | 6 [0] | 888 [857] |
| S130 | Bear River | Phyllis & Robert Wood | 5/13/2004 | 5 [0] | 70 [70] | 177 [177] | 318 [318] | 262 [262] | 134 [134] | 35 [35] | 9 [0] | 1010 [996] |
| S140 | Morristown | Neil Clem | 6/23/2005 | 4 [0] | 66 [34] | 168 [168] | 314 [314] | 243 [243] | 129 [129] | 23 [23] | 6 [0] | 953 [911] |
| S160 | Lily Lake | John Briere | 12/15/2006 | 6 [6] | 68 [68] | 119 [119] | 257 [257] | 256 [256] | 172 [172] | 56 [56] | 5 [4] | 939 [938] |

Table 4: 2013 Daily Average Solar Radiation within April to November Period (kWh/m²/day = kilowatt hours per metre² per day)

| Station ID | Location | Contact | Deployment Date | Apr kWh/m ² /day | May kWh/m ² /day | Jun kWh/m ² /day | Jul kWh/m ² /day | Aug kWh/m ² /day | Sep kWh/m ² /day | Oct kWh/m ² /day | Nov kWh/m ² /day | Total Radiation kWh/m ² |
|------------|--------------------|---------------------------|-----------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------------|
| AN1 | Parkers Cove | Dennis Kingston | 7/12/2011 | 4.51 | 5.16 | 4.95 | 5.09 | 5.32 | 3.39 | 2.71 | 1.06 | 32.18 |
| AN2 | Parker Mountain | Stuart Robinson | 7/12/2011 | 4.47 | 5.13 | 5.03 | 5.35 | 5.60 | 3.57 | 3.02 | 1.18 | 33.34 |
| AN3 | Granville Ferry | D. Butler & J. Burnell | 7/12/2011 | 4.65 | 5.33 | 5.14 | 5.35 | 5.67 | 3.49 | 2.83 | 1.15 | 33.61 |
| AN4 | Annapolis | Susan & Gene Lane | 7/12/2011 | 4.19 | 4.91 | 4.66 | 4.92 | 5.10 | 3.21 | 2.67 | 1.01 | 30.66 |
| AN5 | Milford | Jim Langmire | 7/12/2011 | 4.40 | 4.92 | 4.78 | 5.13 | 5.26 | 3.34 | 2.83 | 1.18 | 31.85 |
| AN6 | South Milford | Leslee Fredericks | 7/12/2011 | 4.28 | 4.72 | 4.74 | 5.03 | 5.12 | 3.30 | 2.76 | 1.16 | 31.10 |
| AN7 | Maitland Bridge | KNP & NHS | 8/24/2011 | 4.09 | 4.65 | 4.52 | 4.75 | 5.04 | 3.28 | 2.69 | 1.09 | 30.11 |
| BI1 | Brier Island | David Pugh | 8/26/2011 | 4.26 | 4.75 | 4.97 | 5.01 | 5.09 | 3.35 | 2.88 | 1.97 | 32.27 |
| BR1 | Kingsburg | Donna & Scott Fleming | 5/6/2011 | 4.18 | 4.56 | 4.69 | 4.90 | 5.23 | 3.78 | 2.94 | 1.45 | 31.72 |
| BR2 | Crouse Settlement | Bev Martel | 5/3/2011 | 4.26 | 4.64 | 4.68 | 4.88 | 5.42 | 3.85 | 3.06 | 1.48 | 32.26 |
| BR3 | Bridgewater | Kevin Johnson | 5/5/2011 | 4.42 | 4.80 | 4.79 | 4.96 | 5.37 | 3.61 | 3.12 | 1.46 | 32.53 |
| BR4 | Northfield | Wayne Broom | 5/3/2011 | 4.18 | 4.56 | 4.48 | 4.84 | 5.01 | 3.41 | 2.68 | 1.22 | 30.38 |
| BR5 | New Germany | Bill Woodworth | 6/8/2011 | 4.81 | 4.56 | 4.42 | 4.50 | 5.20 | 3.47 | 2.87 | 1.70 | 31.53 |
| BR6 | Cherryfield | Kevin Munro | 5/5/2011 | 4.42 | 4.55 | 4.60 | 5.15 | 5.29 | 3.50 | 2.85 | 1.26 | 31.62 |
| CH1 | Blanford | Jeff Hogue | 5/17/2011 | 4.50 | 4.83 | 4.75 | 5.09 | 5.60 | 3.93 | 3.24 | 1.52 | 33.45 |
| CH2 | East Chester | Christopher Field | 5/17/2011 | 4.27 | 4.58 | 4.69 | 4.92 | 5.42 | 3.68 | 2.97 | 1.37 | 31.90 |
| CH3 | Chester Grant | Linda & Bruce Brophy | 5/17/2011 | 3.92 | 4.32 | 4.34 | 4.53 | 4.82 | 3.21 | 2.69 | 1.19 | 29.00 |
| CH4 | Seffernsville | Rudy & Donald Seffern | 5/14/2011 | 4.12 | 4.47 | 4.49 | 4.74 | 5.20 | 3.46 | 2.85 | 1.25 | 30.56 |
| CH5 | New Ross | Kelly Munroe | 5/14/2011 | 4.20 | 4.63 | 4.77 | 5.12 | 5.25 | 3.45 | 2.86 | 1.24 | 31.52 |
| CH6 | Aldersville | Jackie Russell | 5/14/2011 | 4.21 | 4.56 | 4.73 | 5.10 | 5.20 | 3.40 | 2.93 | 1.21 | 31.32 |
| CL1 | Clark's Harbour | Jimmy Newell | 5/11/2011 | 4.33 | 4.95 | 4.86 | 4.72 | 5.03 | 3.74 | 3.05 | 1.36 | 32.06 |
| CL2 | Barrington | Sid Smith | 4/28/2011 | 4.30 | 4.97 | 4.88 | 4.90 | 5.28 | 3.84 | 3.14 | 1.39 | 32.70 |
| CL3 | Clyde River | Lary Nickerson | 5/11/2011 | 3.99 | 4.79 | 4.73 | 4.77 | 5.15 | 3.58 | 2.90 | 1.36 | 31.27 |
| CL4 | Clyde River | Peter Sutherland | 4/28/2011 | 4.18 | 4.77 | 4.81 | 4.86 | 5.33 | 3.71 | 2.97 | 1.34 | 31.95 |
| CL5 | Clyde River | Ruth Hemeon | 4/28/2011 | 3.96 | 4.69 | 4.62 | 4.62 | 5.08 | 3.42 | 2.85 | 1.19 | 30.44 |
| KE1 | Scotts Bay | Kathleen & Darren Huntley | 7/13/2011 | 4.59 | 4.80 | 4.60 | 4.71 | 5.17 | 3.25 | 2.77 | 1.23 | 31.11 |
| KE2 | Canning | Simon Rafuse | 7/13/2011 | 4.53 | 4.94 | 5.05 | 5.23 | 5.51 | 3.48 | 2.91 | 1.25 | 32.90 |
| KE3 | Kentville | Jeff Franklin | 7/13/2011 | 4.18 | 4.97 | 5.10 | 5.30 | 5.37 | 3.42 | 2.90 | 1.23 | 32.47 |
| KE4 | South Alton | Dianna & Daniel Niema | 7/13/2011 | 4.33 | 4.76 | 4.93 | 5.26 | 5.39 | 3.33 | 2.91 | 1.20 | 32.11 |
| KE5 | South Forest Home | Kirk Keddy | 7/13/2011 | 4.16 | 4.58 | 4.79 | 5.08 | 5.17 | 3.30 | 2.82 | 1.15 | 31.03 |
| LI1 | East Port L'Hebert | Dirk Van Loon | 5/12/2011 | 4.07 | 4.97 | 5.05 | 5.06 | 5.37 | 3.84 | 2.84 | 1.35 | 32.55 |
| LI2 | Robertson Loop | C. & D. Robertson | 5/12/2011 | 4.00 | 4.80 | 4.80 | 4.86 | 5.21 | 3.73 | 2.92 | 1.42 | 31.75 |
| LI3 | Strawberry Point | Betty Richardson | 5/4/2011 | 4.14 | 4.83 | 4.85 | 5.11 | 5.31 | 3.89 | 3.12 | 1.56 | 32.81 |
| LI4 | Liverpool | Larry Cochrane | 5/12/2011 | 4.03 | 4.74 | 4.68 | 4.95 | 5.16 | 3.61 | 2.87 | 1.38 | 31.42 |
| LI5 | Middlefield | Hillsview Acres | 5/4/2011 | 4.23 | 4.81 | 4.76 | 4.88 | 5.31 | 3.67 | 2.94 | 1.32 | 31.93 |
| LI6 | South Brookfield | Mel Waterman | 5/4/2011 | 4.11 | 4.63 | 4.47 | 4.77 | 5.08 | 3.43 | 2.84 | 1.19 | 30.52 |

Table 4: 2013 Daily Average Solar Radiation within April to November Period (kWh/m²/day = kilowatt hours per metre² per day)

| Station ID | Location | Contact | Deployment Date | Apr kWh/m ² /day | May kWh/m ² /day | Jun kWh/m ² /day | Jul kWh/m ² /day | Aug kWh/m ² /day | Sep kWh/m ² /day | Oct kWh/m ² /day | Nov kWh/m ² /day | Total Radiation kWh/m ² |
|------------|-------------------|--------------------------|-----------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------------|
| MI1 | Moshers Corner | David Colville | 8/13/2011 | 4.54 | 5.06 | 5.06 | 5.27 | 5.35 | 3.30 | 2.71 | 1.06 | 32.34 |
| MI2 | Albany | Christine & John Skaling | 7/14/2011 | 4.14 | 4.62 | 4.74 | 5.03 | 5.16 | 3.25 | 2.72 | 1.07 | 30.73 |
| MI3 | Squirreltown | Don McPherson | 7/14/2011 | 4.29 | 4.72 | 4.81 | 5.11 | 5.27 | 3.34 | 2.85 | 1.15 | 31.52 |
| MI4 | Dalhousie | John Blyde | 8/24/2011 | 4.17 | 4.60 | 4.65 | 4.95 | 5.19 | 3.27 | 2.80 | 1.15 | 30.76 |
| MI5 | Springfield | Robert Whynot | 7/14/2011 | 4.22 | 4.58 | 4.68 | 5.02 | 5.22 | 3.39 | 2.81 | 1.23 | 31.15 |
| SH1 | Lockes Island | Marilyn & Stewart Moore | 5/12/2011 | 4.16 | 4.91 | 4.96 | 4.89 | 5.23 | 3.71 | 2.92 | 1.42 | 32.20 |
| SH2 | Sandy Point | Maria Harding | 4/27/2011 | 4.11 | 4.88 | 4.94 | 4.93 | 5.23 | 3.66 | 2.60 | 0.02 | 30.38 |
| SH3 | Shelburne | Ivan Spears | 5/12/2011 | 4.07 | 4.69 | 4.86 | 4.79 | 5.24 | 3.59 | 2.99 | 1.39 | 31.62 |
| SH4 | Lower Ohio | Rick Bower | 4/28/2011 | 4.17 | 4.73 | 4.89 | 4.74 | 5.23 | 3.61 | 2.94 | 1.36 | 31.67 |
| SH5 | Lower Ohio | Rick Bower | 4/27/2011 | 4.15 | 4.79 | 4.97 | 4.85 | 5.20 | 3.58 | 2.88 | 1.34 | 31.77 |
| SH6 | Middle Ohio | Ted Siegel | 4/27/2011 | 3.99 | 4.69 | 4.70 | 4.16 | 5.38 | 3.59 | 2.83 | 1.26 | 30.59 |
| SH7 | Upper Ohio | Leonard Bower | 4/27/2011 | 4.16 | 4.82 | 5.00 | 4.96 | 5.33 | 3.61 | 2.70 | 1.34 | 31.92 |
| WE1 | Sandy Cove | Andre D'Entremont | 5/11/2011 | 4.26 | 4.91 | 4.81 | 5.02 | 5.12 | 3.26 | 2.84 | 1.14 | 31.36 |
| WE2 | Weymouth North | Paul Weaver | 4/29/2011 | 4.35 | 4.87 | 4.90 | 5.13 | 5.25 | 3.35 | 2.96 | 1.20 | 32.02 |
| WE3 | Weaver Settlement | Andrew Weaver | 4/21/2011 | 4.25 | 4.90 | 4.79 | 5.10 | 5.22 | 3.29 | 2.94 | 1.22 | 31.72 |
| WE4 | Hassett | Nellie & David Russell | 4/29/2011 | 4.22 | 4.79 | 4.57 | 4.85 | 5.05 | 3.25 | 2.95 | 1.25 | 30.94 |
| WE5 | Corberrie | Kevin Gaudet | 4/29/2011 | 4.17 | 4.71 | 4.77 | 4.96 | 5.26 | 3.37 | 2.97 | 1.21 | 31.41 |
| WE6 | Hectanooga | Rudy & Henny Zwaga | 5/11/2011 | 4.17 | 4.86 | 4.78 | 4.84 | 5.11 | 3.28 | 2.85 | 1.17 | 31.06 |
| YA1 | Cheggoggin | Chris Tedford | 4/20/2011 | 4.40 | 4.94 | 5.04 | 5.03 | 5.34 | 3.59 | 3.00 | 1.25 | 32.59 |
| YA2 | South Ohio | Truman Hurlburt | 4/20/2011 | 4.25 | 4.89 | 4.89 | 4.85 | 5.09 | 3.41 | 2.90 | 1.16 | 31.43 |
| YA3 | Deerfield | Neil Nicholl | 4/19/2011 | 4.10 | 4.69 | 4.74 | 4.78 | 5.00 | 3.28 | 2.84 | 1.19 | 30.62 |
| YA4 | Pleasant Valley | Leonard Sabine | 4/19/2011 | 4.10 | 4.63 | 4.67 | 4.77 | 4.99 | 3.29 | 2.88 | 1.21 | 30.54 |
| YA5 | Kemptville | Kyle Roberts | 4/20/2011 | 3.85 | 4.39 | 4.70 | 4.72 | 4.95 | 3.15 | 2.76 | 1.16 | 29.68 |
| YA6 | East Kemptville | DNR | 4/20/2011 | 4.13 | 4.79 | 4.74 | 4.83 | 5.09 | 3.29 | 2.85 | 1.17 | 30.89 |
| S10 | Moshers Corner | David Colville | 9/3/2002 | 5.09 | 5.61 | 5.55 | 5.77 | 5.46 | 3.52 | 2.98 | 1.15 | 35.13 |
| S20 | West Nictaux | Ivan Shilliday | 9/9/2003 | 4.60 | 4.96 | 4.93 | 5.17 | 5.41 | 3.43 | 2.77 | 1.08 | 32.35 |
| S30 | Middleton | David Colville | 9/9/2003 | 4.46 | 5.30 | 5.18 | 5.30 | 5.57 | 3.57 | 2.91 | 1.09 | 33.38 |
| S40 | South Mountain | Gregory Dixon | 5/12/2004 | 4.65 | 5.24 | 5.72 | 5.50 | 5.61 | 3.54 | 2.97 | 1.18 | 34.40 |
| S60 | Sheffield Mills | Dale Hebb | 9/19/2003 | 4.49 | 4.91 | 5.31 | 5.29 | 5.52 | 3.53 | 2.94 | 1.20 | 33.19 |
| S70 | Nictaux South | Marian & Gordon Foster | 9/16/2003 | 4.54 | 5.07 | 5.05 | 5.36 | 5.44 | 3.45 | 2.93 | 1.16 | 32.99 |
| S80 | Port Royal | Allan Sloan | 9/30/2003 | 4.65 | 5.31 | 5.06 | 5.23 | 5.64 | 3.50 | 2.89 | 1.16 | 33.42 |
| S90 | Gaspereau | Chris Wescott | 9/30/2003 | 4.65 | 5.00 | 5.11 | 5.36 | 5.40 | 3.50 | 3.05 | 1.29 | 33.35 |
| S100 | Marshaltown | Carl Seely | 9/30/2003 | 4.59 | 5.18 | 5.71 | 5.16 | 5.49 | 3.47 | 2.98 | 1.17 | 33.75 |
| S120 | Ross Creek | Bill Crowson | 5/17/2004 | 4.72 | 5.04 | 5.18 | 5.44 | 5.60 | 3.55 | 2.99 | 1.31 | 33.82 |
| S130 | Bear River | Phyllis & Robert Wood | 5/13/2004 | 4.61 | 5.20 | 5.66 | 5.26 | 5.40 | 3.42 | 2.93 | 1.17 | 33.65 |
| S140 | Morristown | Neil Clem | 6/23/2005 | 3.80 | 4.33 | 4.55 | 4.54 | 4.64 | 3.19 | 2.63 | 1.26 | 28.95 |
| S160 | Lily Lake | John Briere | 12/15/2006 | 4.90 | 5.48 | 5.36 | 5.68 | 5.88 | 3.73 | 3.14 | 1.28 | 35.44 |

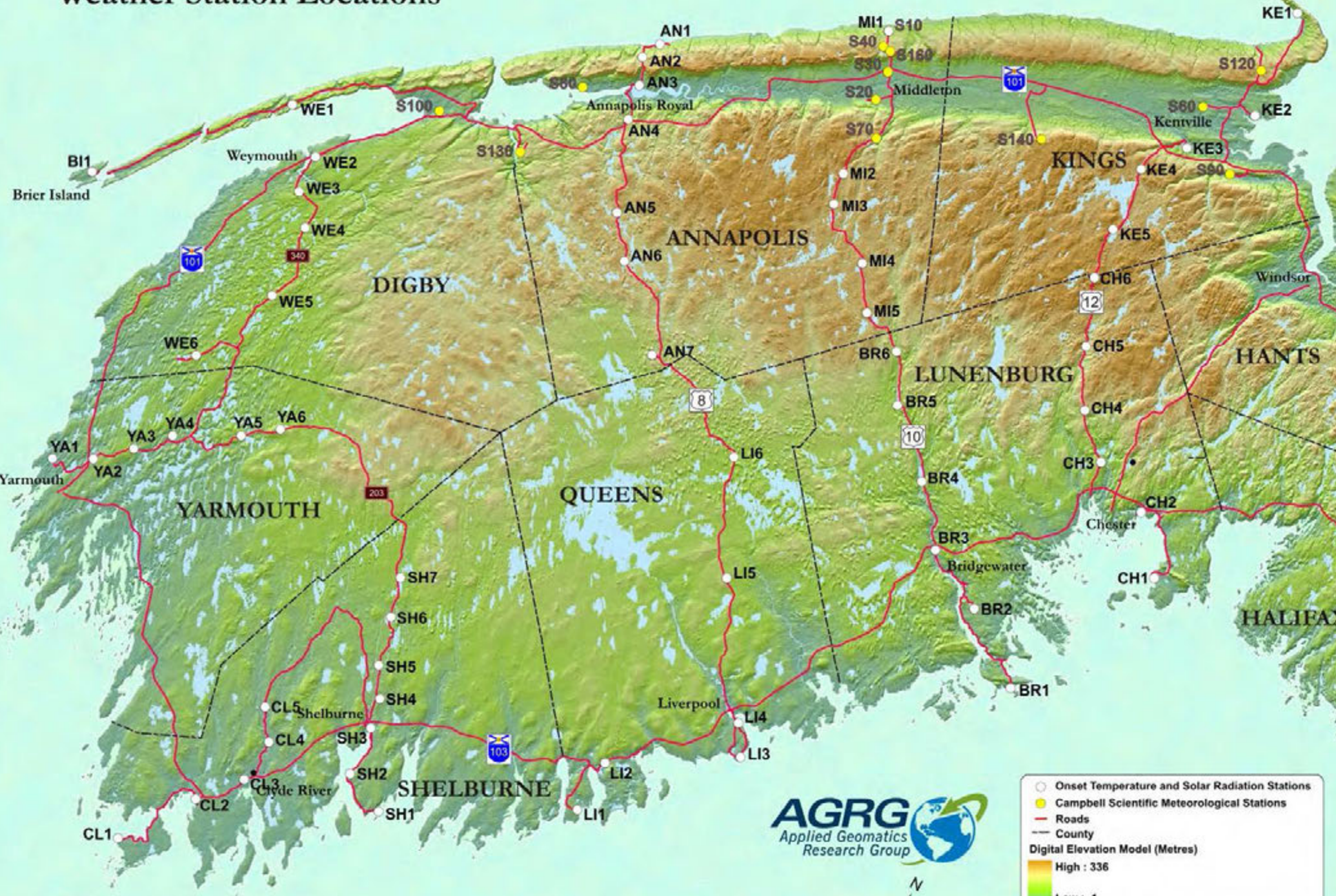
Table 5: 2011-2013 Annual Temperature Comparison (GDD = Growing Degree Days Base 10°C)

| Station ID | Location | Contact | Deployment Date | 2011 | | | | 2012 | | | | 2013 | | | |
|------------|--------------------|---------------------------|-----------------|-----------------|----------------------|-------------------|---------------|-----------------|----------------------|-------------------|---------------|-----------------|----------------------|-------------------|---------------|
| | | | | Frost Free Days | Total GDD Frost Free | Total GDD Apr-Nov | Min Temp (°C) | Frost Free Days | Total GDD Frost Free | Total GDD Apr-Nov | Min Temp (°C) | Frost Free Days | Total GDD Frost Free | Total GDD Apr-Nov | Min Temp (°C) |
| AN1 | Parkers Cove | Dennis Kingston | 7/12/2011 | | | | | 184.1 | 1007 | 1027 | -13.3 | 204.1 | 906 | 911 | -18.1 |
| AN2 | Parker Mountain | Stuart Robinson | 7/12/2011 | | | | | 190.1 | 1092 | 1112 | -15.7 | 178.8 | 987 | 1000 | -18.1 |
| AN3 | Granville Ferry | D. Butler & J. Burnell | 7/12/2011 | | | | | 165.0 | 1109 | 1154 | -16.7 | 147.3 | 950 | 1017 | -22.4 |
| AN4 | Annapolis | Susan & Gene Lane | 7/12/2011 | | | | | 164.8 | 1122 | 1167 | -16.4 | 147.1 | 1004 | 1072 | -22.2 |
| AN5 | Milford | Jim Langmire | 7/12/2011 | | | | | 165.0 | 1076 | 1118 | -18.6 | 147.2 | 980 | 1041 | -25.3 |
| AN6 | South Milford | Leslee Fredericks | 7/12/2011 | | | | | 148.8 | 1015 | 1089 | -18.5 | 136.9 | 938 | 1012 | -24.8 |
| AN7 | Maitland Bridge | KNP & NHS | 8/24/2011 | | | | | 148.8 | 1044 | 1122 | -18.7 | 136.9 | 962 | 1042 | -24.8 |
| BI1 | Brier Island | David Pugh | 8/26/2011 | | | | | 235.9 | 978 | 978 | -13.0 | 225.4 | 790 | 790 | -14.5 |
| BR1 | Kingsburg | Donna & Scott Fleming | 5/6/2011 | 184.0 | 904 | 913 | -12.0 | 202.0 | 986 | 987 | -14.4 | 204.9 | 834 | 834 | -17.7 |
| BR2 | Crouse Settlement | Bev Martel | 5/3/2011 | 179.3 | 1110 | 1124 | -14.1 | 176.9 | 1195 | 1230 | -15.1 | 177.7 | 1141 | 1159 | -22.1 |
| BR3 | Bridgewater | Kevin Johnson | 5/5/2011 | 177.3 | 1150 | 1163 | -14.2 | 176.8 | 1226 | 1275 | -16.1 | 163.8 | 1139 | 1200 | -22.4 |
| BR4 | Northfield | Wayne Broom | 5/3/2011 | 157.3 | 1074 | 1130 | -14.4 | 174.8 | 1195 | 1236 | -18.3 | 163.2 | 1114 | 1173 | -24.3 |
| BR5 | New Germany | Bill Woodworth | 6/8/2011 | | | | | 153.8 | 1110 | 1172 | -19.0 | 146.2 | 1024 | 1096 | -26.2 |
| BR6 | Cherryfield | Kevin Munro | 5/5/2011 | 177.2 | 1031 | 1038 | -16.3 | 148.8 | 1070 | 1154 | -19.3 | 137.0 | 1017 | 1109 | -26.1 |
| CH1 | Blanford | Jeff Hogue | 5/17/2011 | | | | | 159.7 | 924 | 963 | -14.2 | 146.0 | 813 | 848 | -22.2 |
| CH2 | East Chester | Christopher Field | 5/17/2011 | | | | | 189.0 | 1078 | 1084 | -15.8 | 164.0 | 981 | 1004 | -23.0 |
| CH3 | Chester Grant | Linda & Bruce Brophy | 5/17/2011 | | | | | 169.7 | 1110 | 1139 | -16.6 | 163.1 | 1028 | 1067 | -25.3 |
| CH4 | Seffernsville | Rudy & Donald Seffern | 5/14/2011 | | | | | 176.8 | 1120 | 1149 | -17.2 | 163.2 | 1031 | 1068 | -23.7 |
| CH5 | New Ross | Kelly Munroe | 5/14/2011 | | | | | 153.7 | 1035 | 1089 | -18.9 | 160.1 | 967 | 1007 | -25.6 |
| CH6 | Aldersville | Jackie Russell | 5/14/2011 | | | | | 176.9 | 1047 | 1076 | -18.0 | 162.9 | 983 | 1026 | -23.7 |
| CL1 | Clark's Harbour | Jimmy Newell | 5/11/2011 | | | | | 237.0 | 842 | 842 | -10.1 | 231.3 | 539 | 539 | -13.9 |
| CL2 | Barrington | Sid Smith | 4/28/2011 | 191.9 | 1040 | 1053 | -12.8 | 177.0 | 1111 | 1155 | -14.8 | 163.8 | 953 | 985 | -16.7 |
| CL3 | Clyde River | Larry Nickerson | 5/11/2011 | | | | | 153.8 | 994 | 1058 | -16.0 | 147.9 | 899 | 954 | -20.3 |
| CL4 | Clyde River | Peter Sutherland | 4/28/2011 | 161.9 | 1003 | 1068 | -14.1 | 147.7 | 1008 | 1091 | -16.4 | 147.0 | 949 | 1004 | -20.5 |
| CL5 | Clyde River | Ruth Hemeon | 4/28/2011 | 162.1 | 1031 | 1088 | -14.7 | 147.0 | 1047 | 1135 | -16.7 | 146.9 | 971 | 1033 | -21.1 |
| KE1 | Scotts Bay | Kathleen & Darren Huntley | 7/13/2011 | | | | | 189.9 | 920 | 938 | -16.8 | 183.9 | 803 | 815 | -18.7 |
| KE2 | Canning | Simon Rafuse | 7/13/2011 | | | | | 189.9 | 1209 | 1234 | -16.0 | 163.2 | 1090 | 1146 | -21.9 |
| KE3 | Kentville | Jeff Franklin | 7/13/2011 | | | | | 176.8 | 1220 | 1265 | -15.9 | 163.8 | 1102 | 1169 | -23.4 |
| KE4 | South Alton | Dianna & Daniel Niema | 7/13/2011 | | | | | 190.0 | 1107 | 1125 | -17.8 | 163.8 | 1017 | 1067 | -23.1 |
| KE5 | South Forest Home | Kirk Keddy | 7/13/2011 | | | | | 148.8 | 986 | 1064 | -19.1 | 145.9 | 944 | 1001 | -26.7 |
| LI1 | East Port L'Hebert | Dirk Van Loon | 5/12/2011 | | | | | 189.2 | 1041 | 1050 | -14.2 | 190.9 | 958 | 959 | -18.1 |
| LI2 | Robertson Loop | C. & D. Robertson | 5/12/2011 | | | | | 190.0 | 1162 | 1180 | -15.0 | 190.8 | 1109 | 1109 | -19.2 |
| LI3 | Strawberry Point | Betty Richardson | 5/4/2011 | 202.1 | 915 | 917 | -12.4 | 190.9 | 940 | 946 | -14.3 | 191.0 | 811 | 820 | -17.3 |
| LI4 | Liverpool | Larry Cochrane | 5/12/2011 | | | | | 189.7 | 1160 | 1178 | -14.4 | 176.8 | 1102 | 1117 | -18.7 |
| LI5 | Middlefield | Hillsview Acres | 5/4/2011 | 185.8 | 1119 | 1130 | -15.3 | 176.9 | 1151 | 1195 | -17.1 | 163.9 | 1094 | 1144 | -20.9 |
| LI6 | South Brookfield | Mel Waterman | 5/4/2011 | 178.1 | 1114 | 1123 | -15.3 | 148.8 | 1102 | 1202 | -18.6 | 147.1 | 1034 | 1108 | -24.0 |

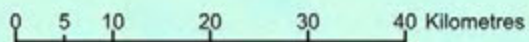
Table 5: 2011-2013 Annual Temperature Comparison (GDD = Growing Degree Days Base 10°C)

| Station ID | Location | Contact | Deployment Date | 2011 | | | | 2012 | | | | 2013 | | | |
|------------|-------------------|--------------------------|-----------------|-----------------|----------------------|-------------------|---------------|-----------------|----------------------|-------------------|---------------|-----------------|----------------------|-------------------|---------------|
| | | | | Frost Free Days | Total GDD Frost Free | Total GDD Apr-Nov | Min Temp (°C) | Frost Free Days | Total GDD Frost Free | Total GDD Apr-Nov | Min Temp (°C) | Frost Free Days | Total GDD Frost Free | Total GDD Apr-Nov | Min Temp (°C) |
| MI1 | Moshers Corner | David Colville | 8/13/2011 | | | | | 190.9 | 1072 | 1090 | -15.8 | 184.8 | 988 | 1006 | -19.5 |
| MI2 | Albany | Christine & John Skaling | 7/14/2011 | | | | | 148.6 | 986 | 1060 | -20.1 | 136.8 | 899 | 974 | -26.7 |
| MI3 | Squirreltown | Don McPherson | 7/14/2011 | | | | | 177.0 | 1102 | 1137 | -16.6 | 163.9 | 993 | 1040 | -21.9 |
| MI4 | Dalhousie | John Blyde | 8/24/2011 | | | | | 169.8 | 1103 | 1137 | -17.4 | 147.0 | 989 | 1049 | -23.4 |
| MI5 | Springfield | Robert Whynot | 7/14/2011 | | | | | 177.0 | 1124 | 1159 | -16.8 | 164.0 | 1029 | 1080 | -22.1 |
| SH1 | Lockes Island | Marilyn & Stewart Moore | 5/12/2011 | | | | | 210.7 | 1080 | 1083 | -12.5 | 200.9 | 951 | 961 | -16.1 |
| SH2 | Sandy Point | Maria Harding | 4/27/2011 | 192.9 | 1051 | 1065 | -12.8 | 173.1 | 1075 | 1113 | -12.6 | 179.1 | 994 | 1016 | -17.1 |
| SH3 | Shelburne | Ivan Spears | 5/12/2011 | | | | | 164.0 | 1108 | 1152 | -15.4 | 160.0 | 1018 | 1064 | -19.7 |
| SH4 | Lower Ohio | Rick Bower | 4/28/2011 | 162.0 | 995 | 1046 | -15.8 | 147.0 | 988 | 1062 | -17.2 | 133.1 | 927 | 998 | -21.2 |
| SH5 | Lower Ohio | Rick Bower | 4/27/2011 | 163.1 | 1090 | 1148 | -14.3 | 153.0 | 1100 | 1170 | -16.3 | 137.9 | 1032 | 1118 | -21.1 |
| SH6 | Middle Ohio | Ted Siegel | 4/27/2011 | 188.3 | 1033 | 1045 | -13.9 | 176.9 | 1172 | 1224 | -14.5 | 163.1 | 1025 | 1078 | -19.3 |
| SH7 | Upper Ohio | Leonard Bower | 4/27/2011 | 185.3 | 1134 | 1144 | -13.8 | 170.0 | 1145 | 1192 | -15.3 | 163.2 | 1041 | 1093 | -20.4 |
| WE1 | Sandy Cove | Andre D'Entremont | 5/11/2011 | | | | | 182.8 | 1039 | 1051 | -13.7 | 177.6 | 906 | 915 | -16.3 |
| WE2 | Weymouth North | Paul Weaver | 4/29/2011 | 187.0 | 1017 | 1032 | -10.0 | 170.1 | 1073 | 1114 | -14.1 | 176.6 | 978 | 994 | -16.0 |
| WE3 | Weaver Settlement | Andrew Weaver | 4/21/2011 | 192.8 | 1050 | 1062 | -10.7 | 170.0 | 1065 | 1105 | -14.2 | 147.2 | 955 | 1022 | -17.3 |
| WE4 | Hassett | Nellie & David Russell | 4/29/2011 | 187.0 | 1080 | 1091 | -11.1 | 170.8 | 1117 | 1158 | -15.0 | 163.1 | 1023 | 1074 | -21.1 |
| WE5 | Corberrie | Kevin Gaudet | 4/29/2011 | 187.3 | 1121 | 1132 | -12.2 | 177.0 | 1149 | 1193 | -14.5 | 176.8 | 1062 | 1077 | -20.3 |
| WE6 | Hectanooga | Rudy & Henny Zwaga | 5/11/2011 | | | | | 176.9 | 1089 | 1134 | -15.0 | 175.9 | 1030 | 1046 | -18.9 |
| YA1 | Cheggoggin | Chris Tedford | 4/20/2011 | 196.8 | 835 | 846 | -11.1 | 213.8 | 958 | 962 | -12.3 | 190.7 | 807 | 809 | -15.4 |
| YA2 | South Ohio | Truman Hurlburt | 4/20/2011 | 196.7 | 1034 | 1046 | -11.9 | 194.0 | 1109 | 1129 | -13.4 | 176.7 | 995 | 1011 | -16.2 |
| YA3 | Deerfield | Neil Nicholl | 4/19/2011 | 196.7 | 1064 | 1076 | -12.3 | 189.8 | 1112 | 1132 | -12.9 | 185.7 | 997 | 1011 | -18.0 |
| YA4 | Pleasant Valley | Leonard Sabine | 4/19/2011 | 166.9 | 992 | 1053 | -12.6 | 169.0 | 1040 | 1081 | -16.5 | 160.0 | 961 | 1008 | -20.4 |
| YA5 | Kemptville | Kyle Roberts | 4/20/2011 | 167.0 | 1101 | 1170 | -13.2 | 176.9 | 1166 | 1214 | -15.2 | 176.0 | 1090 | 1109 | -19.2 |
| YA6 | East Kemptville | DNR | 4/20/2011 | 212.6 | 1135 | 1139 | -14.3 | 190.7 | 1161 | 1183 | -14.5 | 184.0 | 1074 | 1085 | -18.7 |
| S10 | Moshers Corner | David Colville | 9/3/2002 | 218.6 | 916 | 918 | -18.7 | 190.9 | 1009 | 1024 | -15.9 | 184.8 | 905 | 919 | -19.1 |
| S20 | West Nictaux | Ivan Shilliday | 9/9/2003 | 189.6 | 858 | 865 | -20.9 | 164.6 | 1107 | 1147 | -19.8 | 147.0 | 963 | 1018 | -26.6 |
| S30 | Middleton | David Colville | 9/9/2003 | 189.8 | 1043 | 1048 | -19.8 | 164.8 | 1076 | 1118 | -19.6 | 160.0 | 1071 | 1100 | -29.9 |
| S40 | South Mountain | Gregory Dixon | 5/12/2004 | | | | | 190.1 | 1022 | 1036 | -16.7 | 184.8 | 953 | 964 | -20.3 |
| S60 | Sheffield Mills | Dale Hebb | 9/19/2003 | 192.9 | 1129 | 1139 | -20.6 | 170.0 | 1174 | 1217 | -16.0 | 153.9 | 1038 | 1062 | -22.1 |
| S70 | Nictaux South | Marian & Gordon Foster | 9/16/2003 | 191.7 | 946 | 950 | -19.3 | 189.0 | 1036 | 1050 | -17.1 | 163.1 | 908 | 953 | -22.4 |
| S80 | Port Royal | Allan Sloan | 9/30/2003 | 191.7 | 890 | 892 | -17.3 | 165.0 | 1110 | 1152 | -14.6 | 160.2 | 841 | 858 | -19.3 |
| S90 | Gaspereau | Chris Wescott | 9/30/2003 | 193.0 | 1099 | 1108 | -18.6 | 176.8 | 1196 | 1238 | -16.4 | 163.2 | 1078 | 1138 | -23.2 |
| S100 | Marshalltown | Carl Seely | 9/30/2003 | 189.6 | 561 | 569 | -19.2 | 152.9 | 1065 | 1101 | -15.5 | 146.9 | 734 | 724 | -21.4 |
| S120 | Ross Creek | Bill Crowson | 5/17/2004 | 197.6 | 794 | 798 | -19.6 | 177.3 | 950 | 973 | -16.1 | 163.8 | 857 | 888 | -21.2 |
| S130 | Bear River | Phyllis & Robert Wood | 5/13/2004 | 192.8 | 1044 | 1053 | -17.6 | 187.7 | 1130 | 1154 | -14.3 | 177.8 | 996 | 1010 | -17.1 |
| S140 | Morristown | Neil Clem | 6/23/2005 | 189.0 | 913 | 918 | -16.8 | 189.1 | 990 | 1005 | -18.0 | 163.0 | 911 | 953 | -19.5 |
| S160 | Lily Lake | John Briere | 12/15/2006 | 196.9 | 938 | 939 | -19.6 | 189.7 | 1062 | 1076 | -16.7 | 164.1 | 908 | 946 | -19.1 |

AGRGR's South West Nova Scotia (SWNS) Weather Station Locations

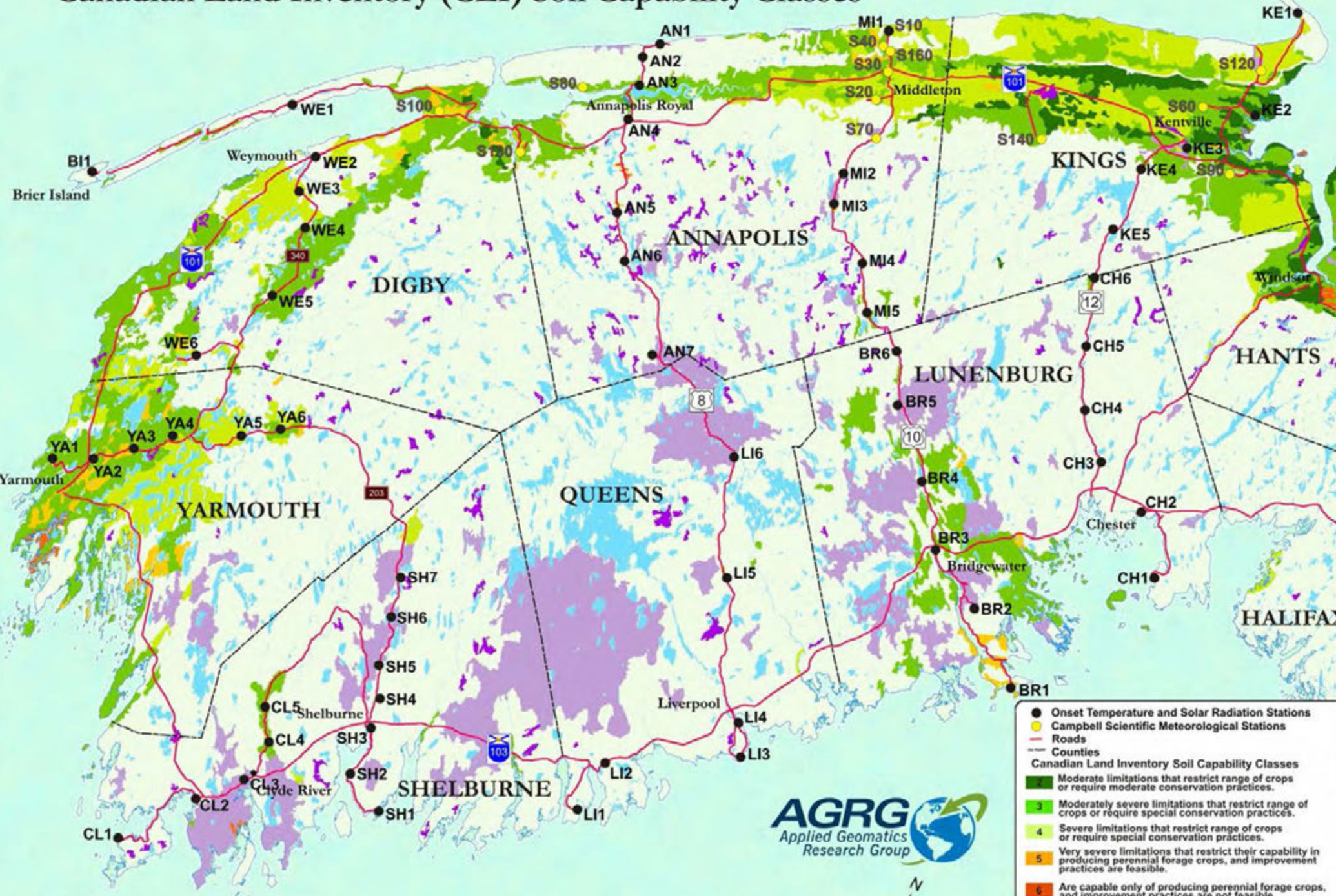


- Onset Temperature and Solar Radiation Stations
- Campbell Scientific Meteorological Stations
- Roads
- County
- Digital Elevation Model (Metres)
- High : 336
- Low : -1



Base Data Source:
Nova Scotia Geomatics Centre
Cartography by Wayne Reiger, AGRGR

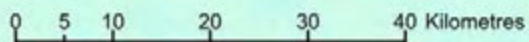
AGRG's South West Nova Scotia (SWNS) Canadian Land Inventory (CLI) Soil Capability Classes



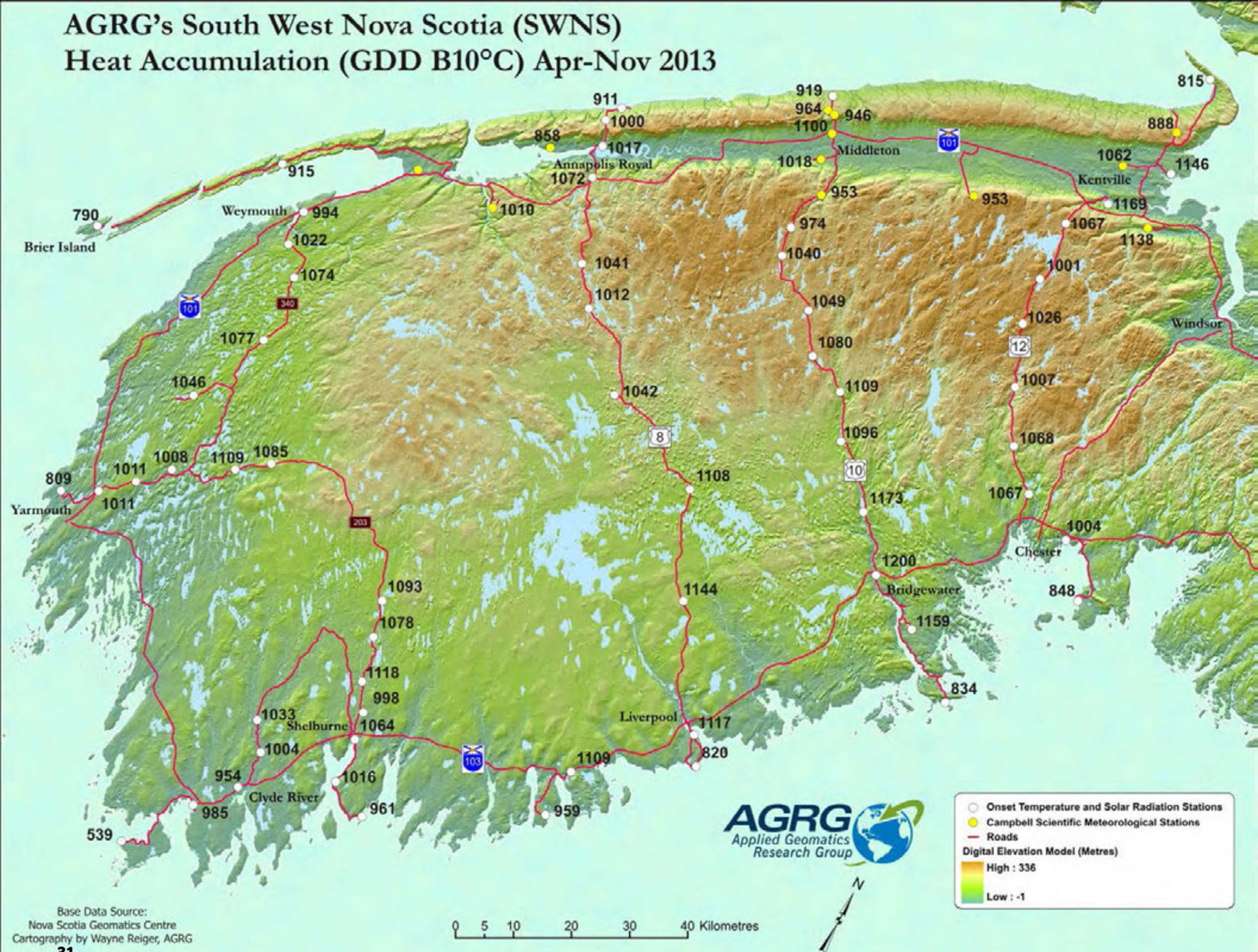
● Onset Temperature and Solar Radiation Stations
 ● Campbell Scientific Meteorological Stations
 — Roads
 — Counties
Canadian Land Inventory Soil Capability Classes
 1 Moderate limitations that restrict range of crops or require moderate conservation practices.
 2 Moderately severe limitations that restrict range of crops or require special conservation practices.
 3 Severe limitations that restrict range of crops or require special conservation practices.
 4 Very severe limitations that restrict their capability in producing perennial forage crops, and improvement practices are feasible.
 5 Are capable only of producing perennial forage crops, and improvement practices are not feasible.
 6 Extremely little capability.
 Organic Soils (not placed in capability classes).
 Water



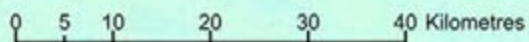
Base Data Source:
Nova Scotia Geomatics Centre
Cartography by Wayne Reiger, AGRG



AGRGR's South West Nova Scotia (SWNS) Heat Accumulation (GDD B10°C) Apr-Nov 2013

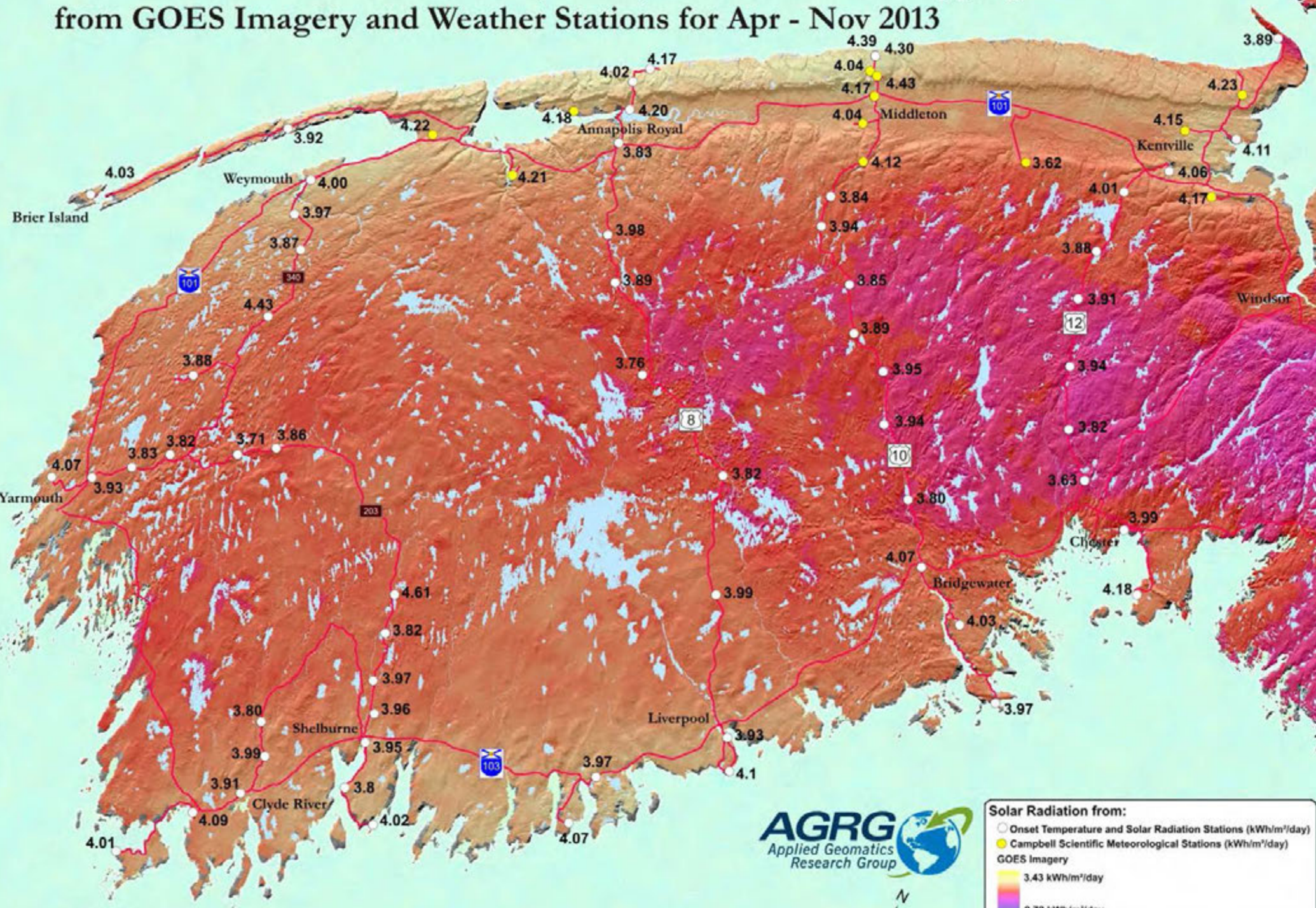


- Onset Temperature and Solar Radiation Stations
- Campbell Scientific Meteorological Stations
- Roads
- Digital Elevation Model (Metres)
- High : 336
- Low : -1

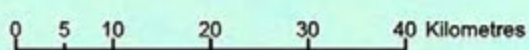


Base Data Source:
Nova Scotia Geomatics Centre
Cartography by Wayne Reiger, AGRGR

AGRG's South West Nova Scotia (SWNS) Solar Radiation Mapping from GOES Imagery and Weather Stations for Apr - Nov 2013



Base Data Source:
Nova Scotia Geomatics Centre
Cartography by Wayne Reiger, AGRG

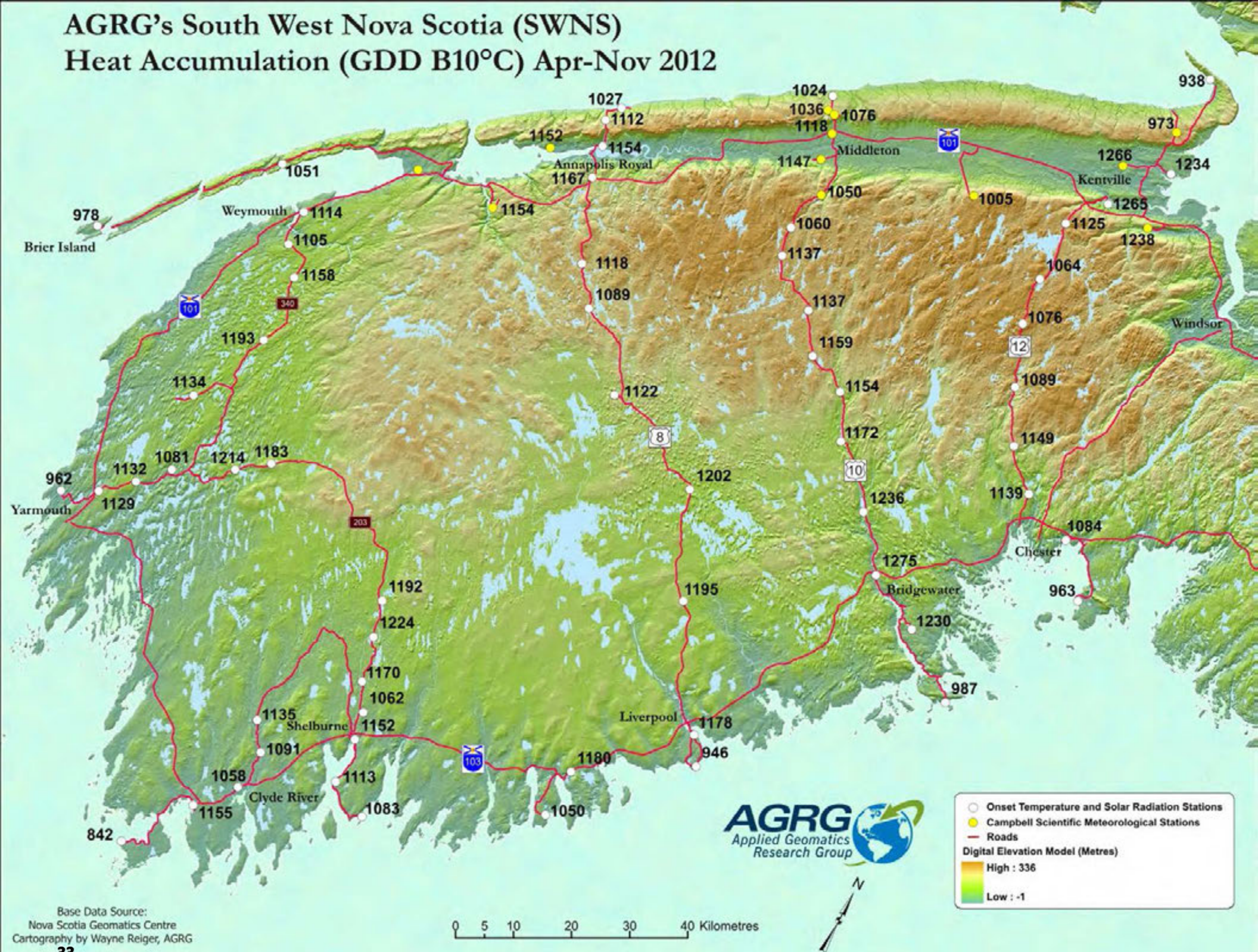


Solar Radiation from:

- Onset Temperature and Solar Radiation Stations (kWh/m²/day)
- Campbell Scientific Meteorological Stations (kWh/m²/day)

GOES Imagery

AGRGR's South West Nova Scotia (SWNS) Heat Accumulation (GDD B10°C) Apr-Nov 2012



- Onset Temperature and Solar Radiation Stations
- Campbell Scientific Meteorological Stations
- Roads
- Digital Elevation Model (Metres)
- High : 336
- Low : -1

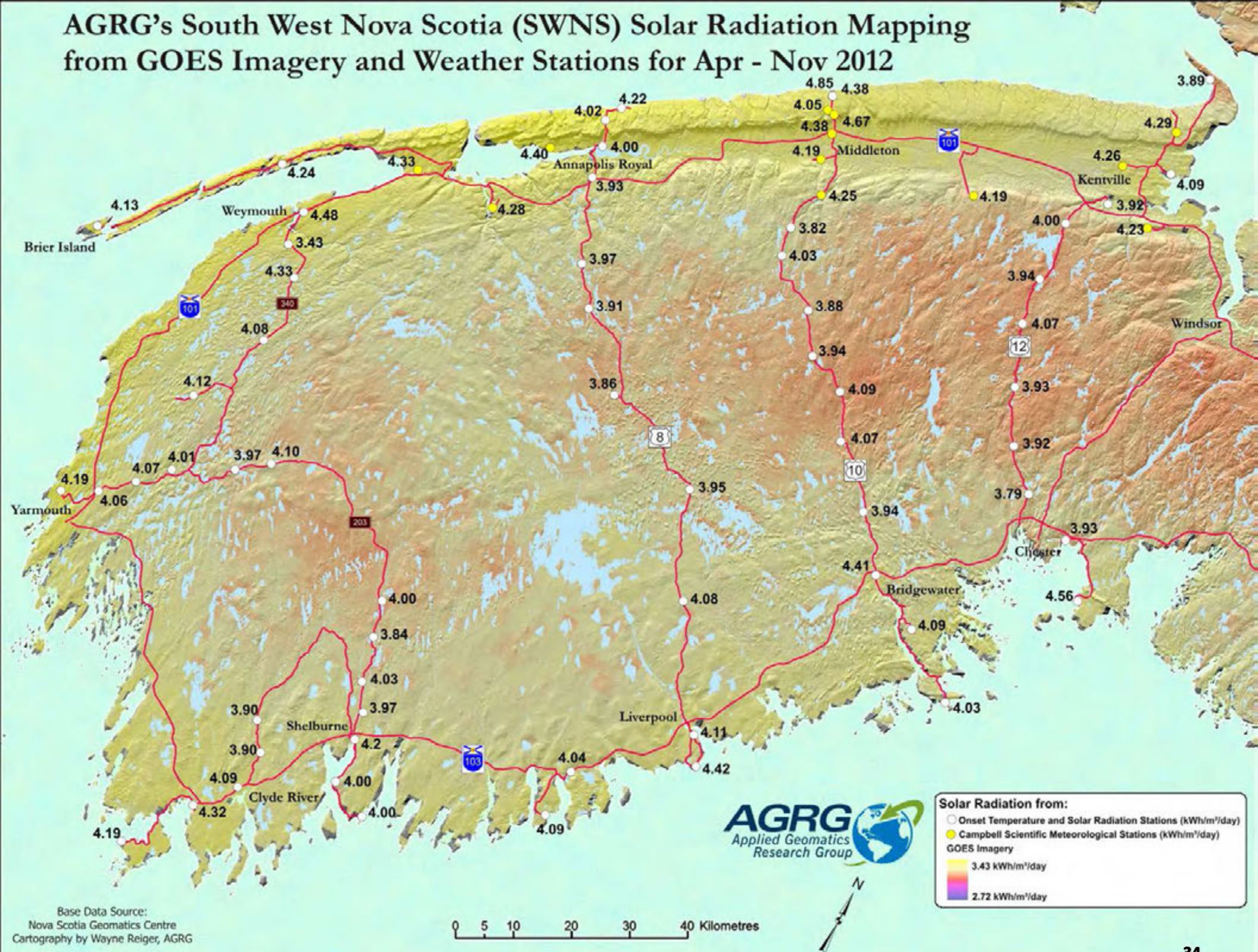


0 5 10 20 30 40 Kilometres



Base Data Source:
Nova Scotia Geomatics Centre
Cartography by Wayne Reiger, AGRGR

AGRGR's South West Nova Scotia (SWNS) Solar Radiation Mapping from GOES Imagery and Weather Stations for Apr - Nov 2012



Base Data Source:
Nova Scotia Geomatics Centre
Cartography by Wayne Reiger, AGRG



Solar Radiation from:

- Onset Temperature and Solar Radiation Stations (kWh/m²/day)
- Campbell Scientific Meteorological Stations (kWh/m²/day)

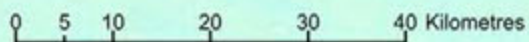
GOES Imagery

- 4.34 kWh/m²/day
- 2.72 kWh/m²/day

AGRGR's South West Nova Scotia (SWNS) Heat Accumulation (GDD B10°C) Apr-Nov 2011

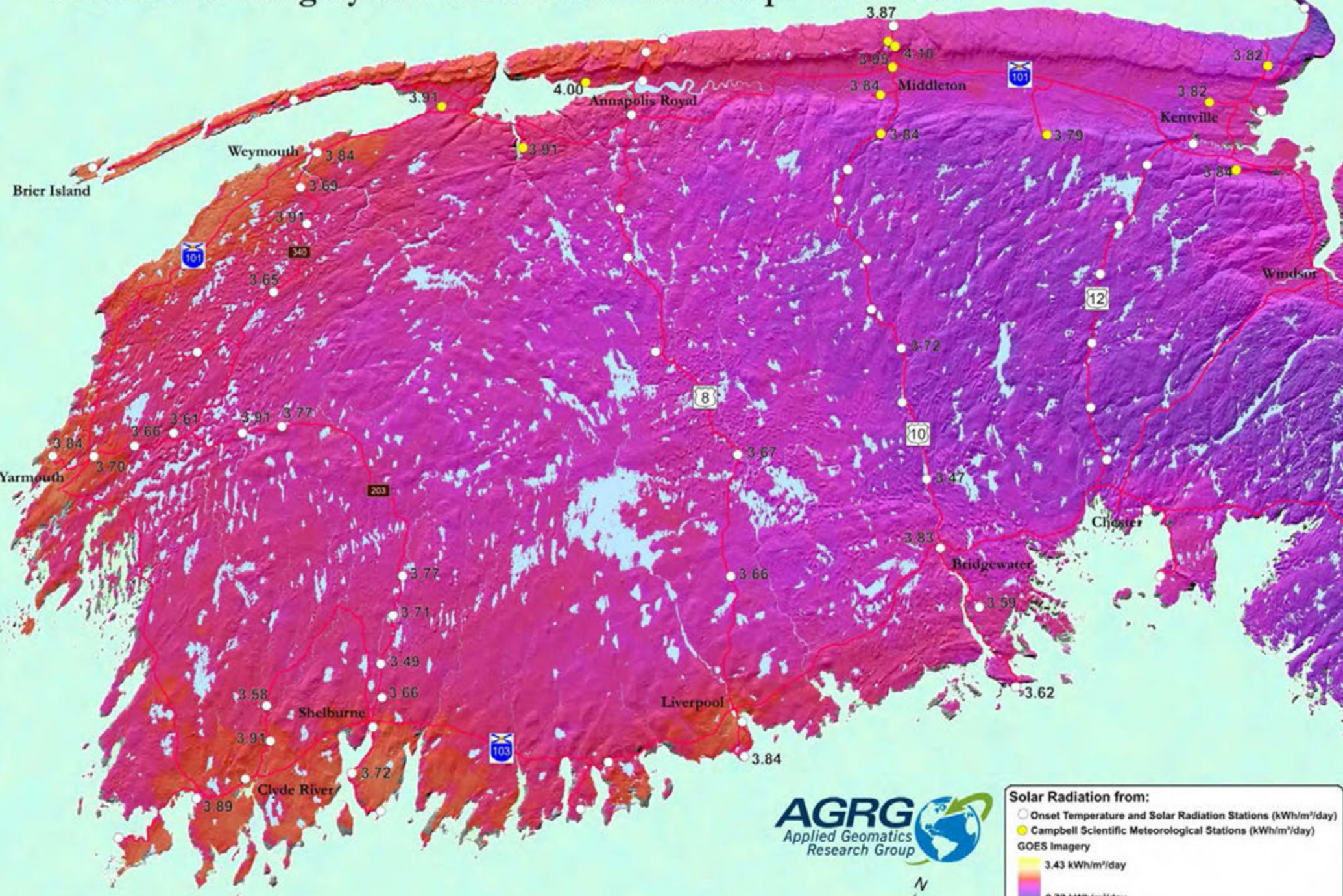


- Onset Temperature and Solar Radiation Stations
- Campbell Scientific Meteorological Stations
- Roads
- Digital Elevation Model (Metres)
- High : 336
- Low : -1

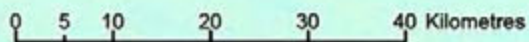


Base Data Source:
Nova Scotia Geomatics Centre
Cartography by Wayne Reiger, AGRGR

AGRG's South West Nova Scotia (SWNS) Solar Radiation Mapping from GOES Imagery and Weather Stations for Apr - Nov 2011



Base Data Source:
Nova Scotia Geomatics Centre
Cartography by Wayne Reiger, AGRG



Solar Radiation from:

- Onset Temperature and Solar Radiation Stations (kWh/m²/day)
- Campbell Scientific Meteorological Stations (kWh/m²/day)

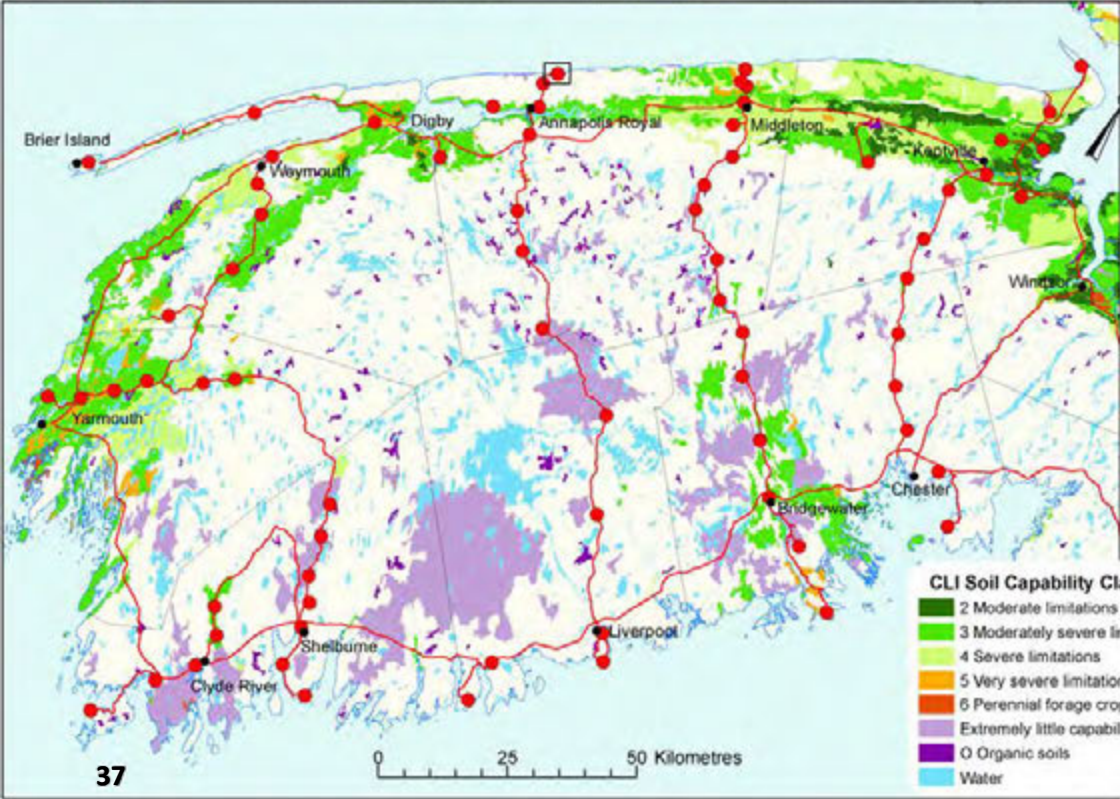
GOES Imagery

- 3.43 kWh/m²/day
- 2.72 kWh/m²/day

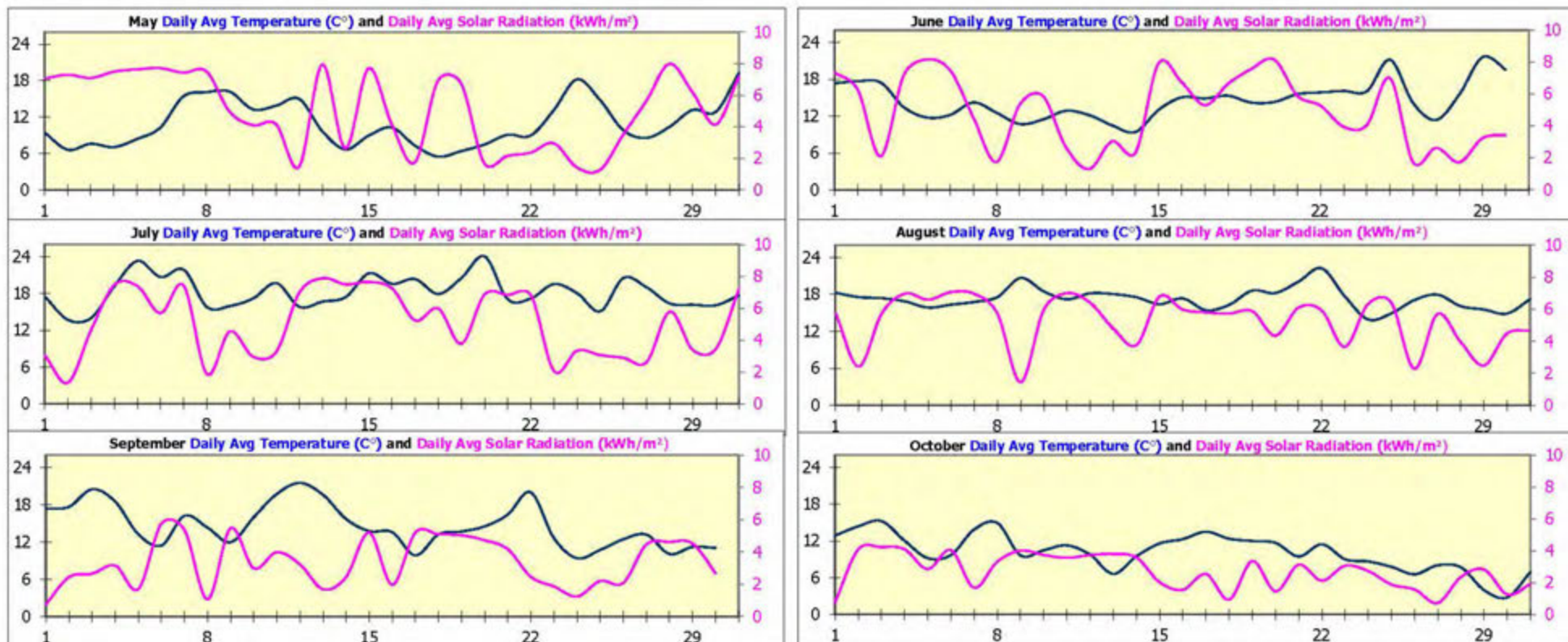
South West NS Temperature and Solar Radiation Study

Station Description

Station ID: AN1 (O)
 Location: Parkers Cove Easting: 301957.579
 County: Annapolis Northing: 4966807.873
 Contact: Dennis Kingston Height (m): 13.9
 Deployment: 7/12/2011 [UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station AN1

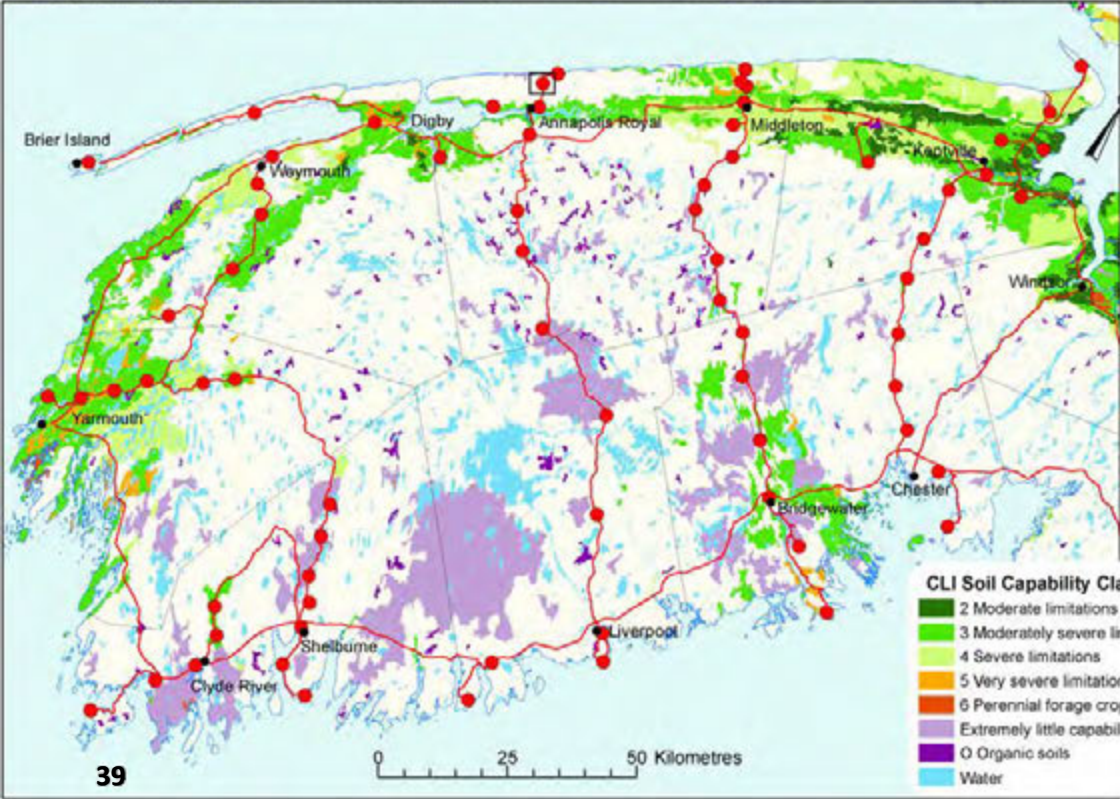


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|--|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 12, 2011 | January | 9 [0] | 0 [0] | -14.95 | 16.84 | -2.83 | -4.01 | 32.07 | 1.03 | 1.38 |
| | February | 0 [0] | 0 [0] | -18.12 | 8.37 | -3.21 | -2.85 | 54.91 | 1.96 | 2.09 |
| | March | 2 [0] | 0 [0] | -12.05 | 10.32 | 0.50 | 0.94 | 96.85 | 3.12 | 3.08 |
| | April | 42 [0] | 5 [0] | -4.20 | 21.56 | 4.78 | 5.17 | 135.35 | 4.51 | 4.23 |
| Frost Free Start: May 04, 2013 03:55 | May | 186 [175] | 65 [65] | -0.70 | 26.23 | 10.96 | 10.87 | 159.92 | 5.16 | 4.84 |
| | June | 300 [300] | 150 [150] | 6.36 | 26.28 | 14.60 | 15.57 | 148.34 | 4.95 | 4.78 |
| | July | 419 [419] | 264 [264] | 11.30 | 28.82 | 18.23 | 20.09 | 157.74 | 5.09 | 4.93 |
| Frost Free End: November 24, 2013 06:25 | August | 389 [389] | 234 [234] | 8.69 | 28.72 | 17.31 | 17.86 | 164.95 | 5.32 | 5.31 |
| | September | 291 [291] | 142 [142] | 4.35 | 27.43 | 14.67 | 14.43 | 101.57 | 3.39 | 3.48 |
| | October | 158 [158] | 38 [38] | -1.99 | 21.53 | 10.18 | 9.65 | 83.86 | 2.71 | 2.96 |
| Frost Free Duration: 204.1 days | November | 57 [49] | 13 [13] | -5.48 | 20.36 | 4.85 | 3.61 | 31.78 | 1.06 | 1.25 |
| | December | 6 [0] | 0 [0] | -14.87 | 12.58 | -1.09 | -2.03 | 17.64 | 0.57 | 0.79 |
| | Totals, Averages or Extremes | 1859 [1781] | 911 [906] | -18.12 | 28.82 | 7.41 | 7.44 | 1,184.98 | 38.86 | 39.12 |

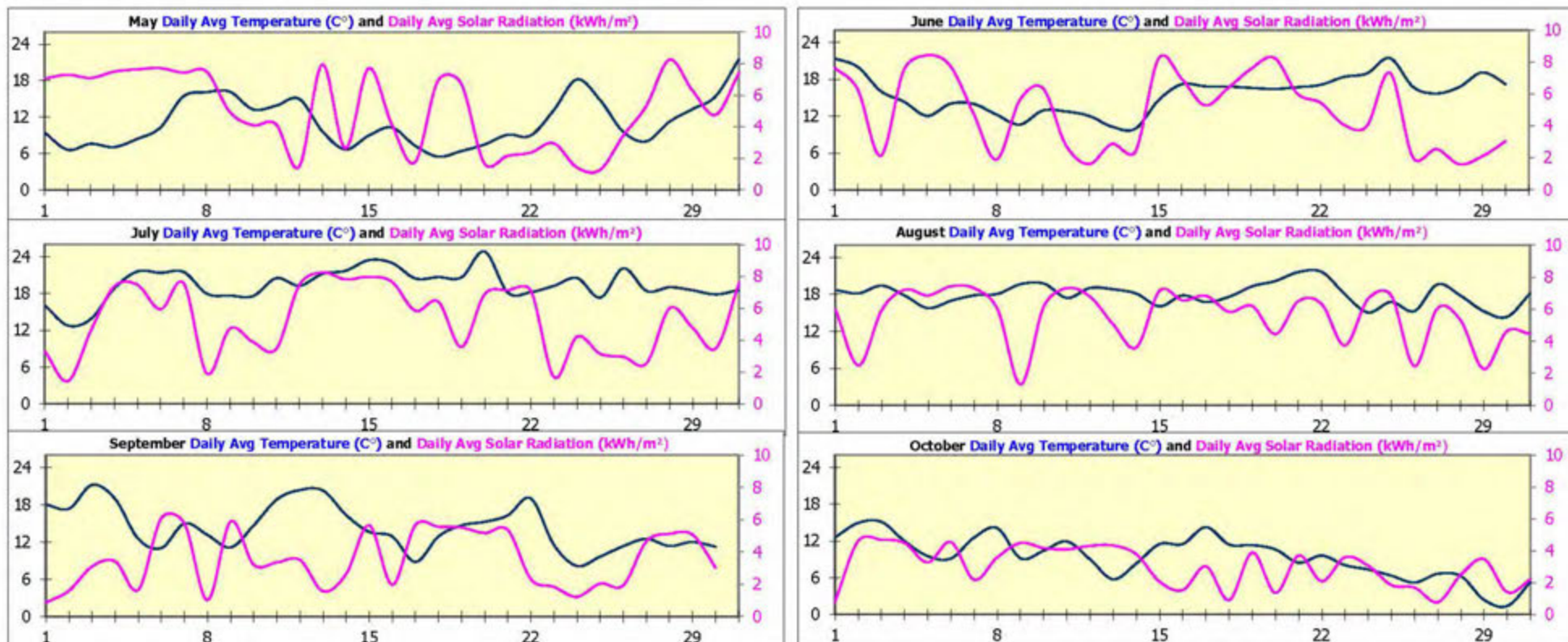
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|-----------------|-----------------------|-------------|
| Station ID: | AN2 (O) | Easting: | 300451.585 |
| Location: | Parker Mountain | Northing: | 4963689.508 |
| County: | Annapolis | Height (m): | 148.65 |
| Contact: | Stuart Robinson | [UTM Zone 20, NAD 83] | |
| Deployment: | 7/12/2011 | | |



2013 Temperature and Solar Radiation Summary for Station AN2

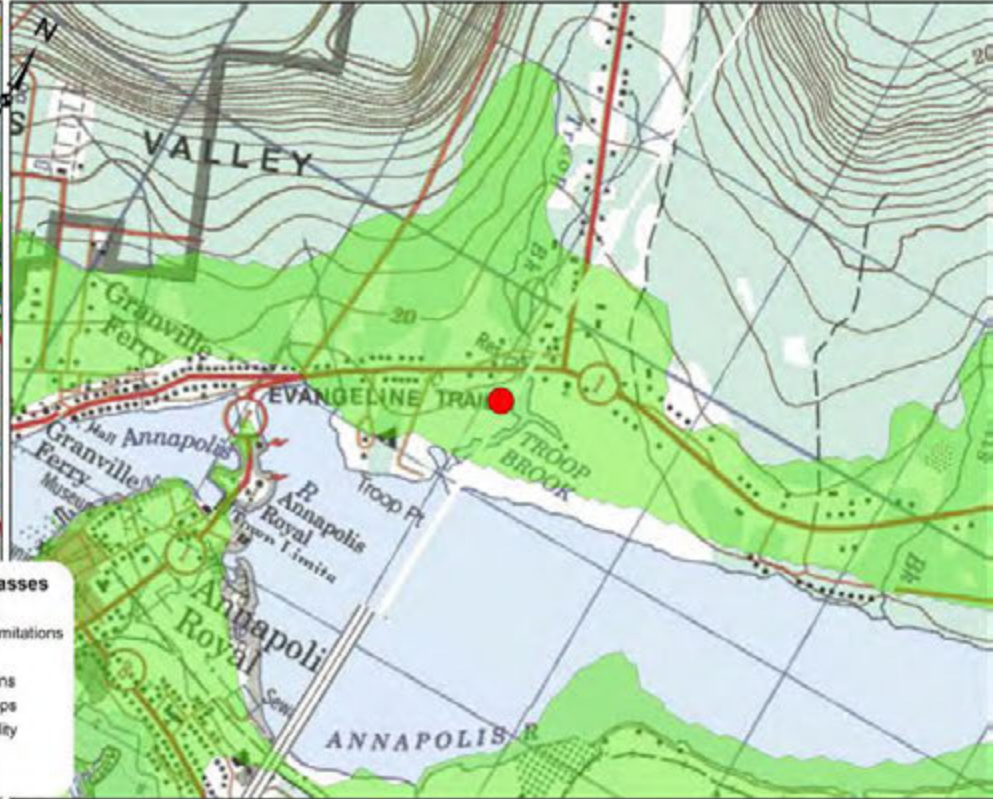
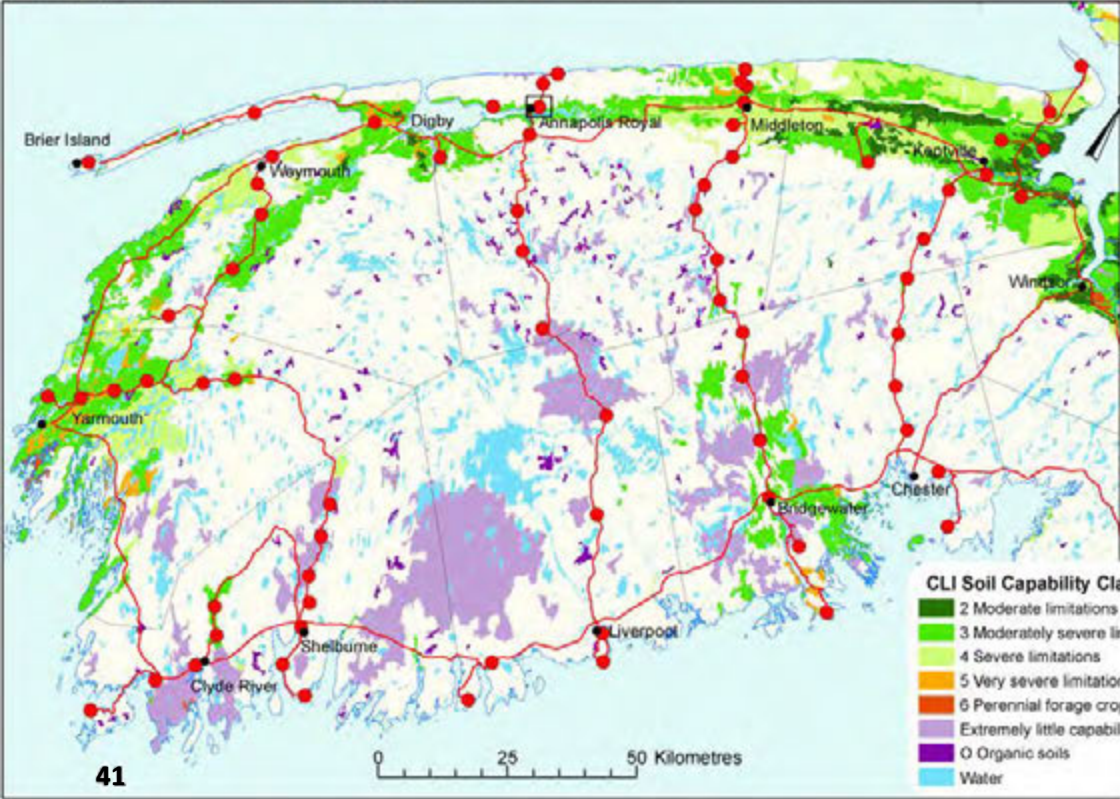


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 12, 2011 | January | 6 [0] | 0 [0] | -17.42 | 15.70 | -3.71 | -4.01 | 28.46 | 1.36 | 1.38 |
| | February | 0 [0] | 0 [0] | -18.12 | 8.37 | -3.53 | -2.85 | 55.09 | 1.97 | 2.09 |
| | March | 2 [0] | 0 [0] | -12.05 | 10.32 | 0.50 | 0.94 | 95.88 | 3.09 | 3.08 |
| | April | 42 [0] | 5 [0] | -4.20 | 21.56 | 4.78 | 5.17 | 133.99 | 4.47 | 4.23 |
| Frost Free Start: May 04, 2013 03:55 | May | 191 [180] | 70 [70] | -0.70 | 28.32 | 11.12 | 10.87 | 159.14 | 5.13 | 4.84 |
| | June | 330 [330] | 180 [180] | 6.36 | 31.82 | 15.65 | 15.57 | 150.77 | 5.03 | 4.78 |
| | July | 454 [454] | 299 [299] | 11.58 | 30.55 | 19.45 | 20.09 | 165.74 | 5.35 | 4.93 |
| Frost Free End: October 29, 2013 23:50 | August | 415 [415] | 260 [260] | 8.24 | 27.63 | 17.97 | 17.86 | 173.61 | 5.60 | 5.31 |
| | September | 290 [290] | 142 [142] | 4.22 | 25.52 | 14.35 | 14.43 | 107.15 | 3.57 | 3.48 |
| | October | 146 [146] | 36 [36] | -2.57 | 21.68 | 9.43 | 9.65 | 93.55 | 3.02 | 2.96 |
| Frost Free Duration: 178.83 days | November | 40 [0] | 8 [0] | -7.41 | 18.84 | 3.41 | 3.61 | 35.46 | 1.18 | 1.25 |
| | December | 4 [0] | 0 [0] | -16.79 | 11.54 | -2.86 | -2.03 | 21.83 | 0.70 | 0.79 |
| | Totals, Averages or Extremes | 1920 [1815] | 1000 [967] | -18.12 | 31.82 | 7.21 | 7.44 | 1,220.67 | 40.46 | 39.12 |

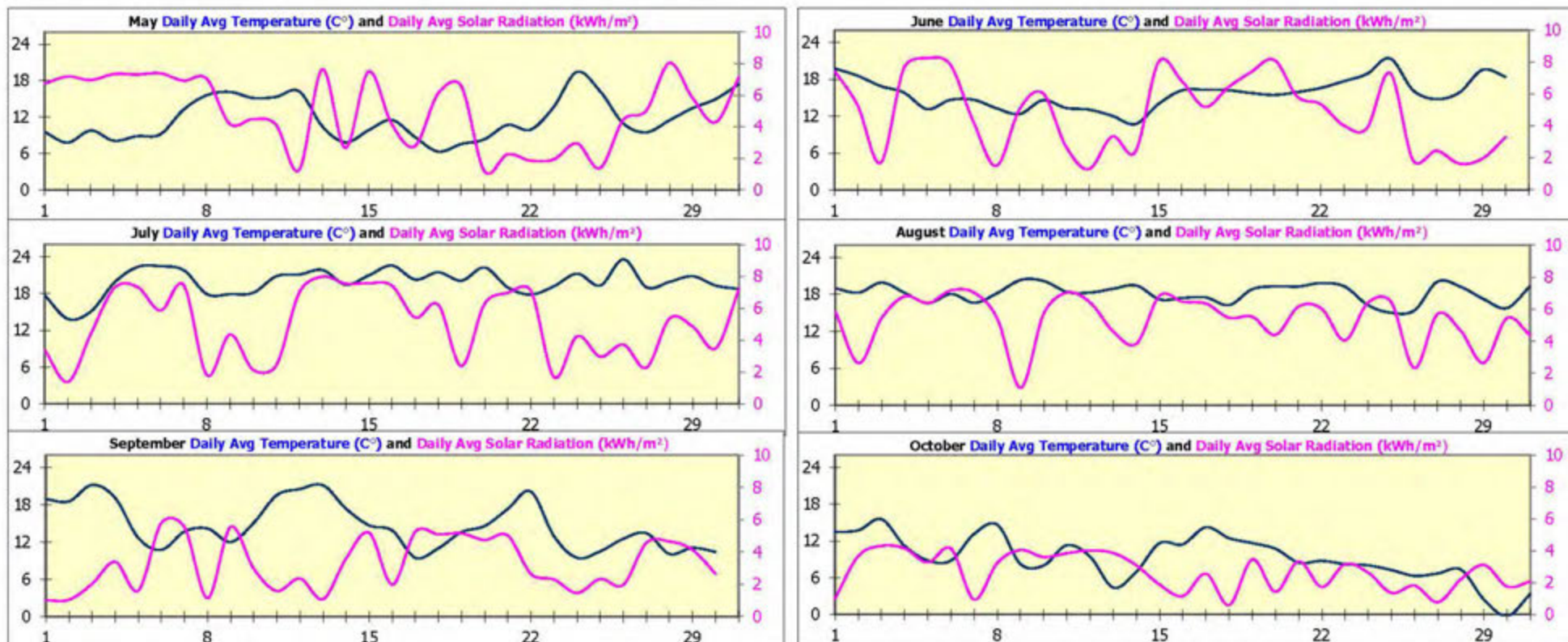
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|------------------------|-----------------------|-------------|
| Station ID: | AN3 (O) | Easting: | 302103.319 |
| Location: | Granville Ferry | Northing: | 4959444.306 |
| County: | Annapolis | Height (m): | 3.79 |
| Contact: | D. Butler & J. Burnell | [UTM Zone 20, NAD 83] | |
| Deployment: | 7/12/2011 | | |



2013 Temperature and Solar Radiation Summary for Station AN3

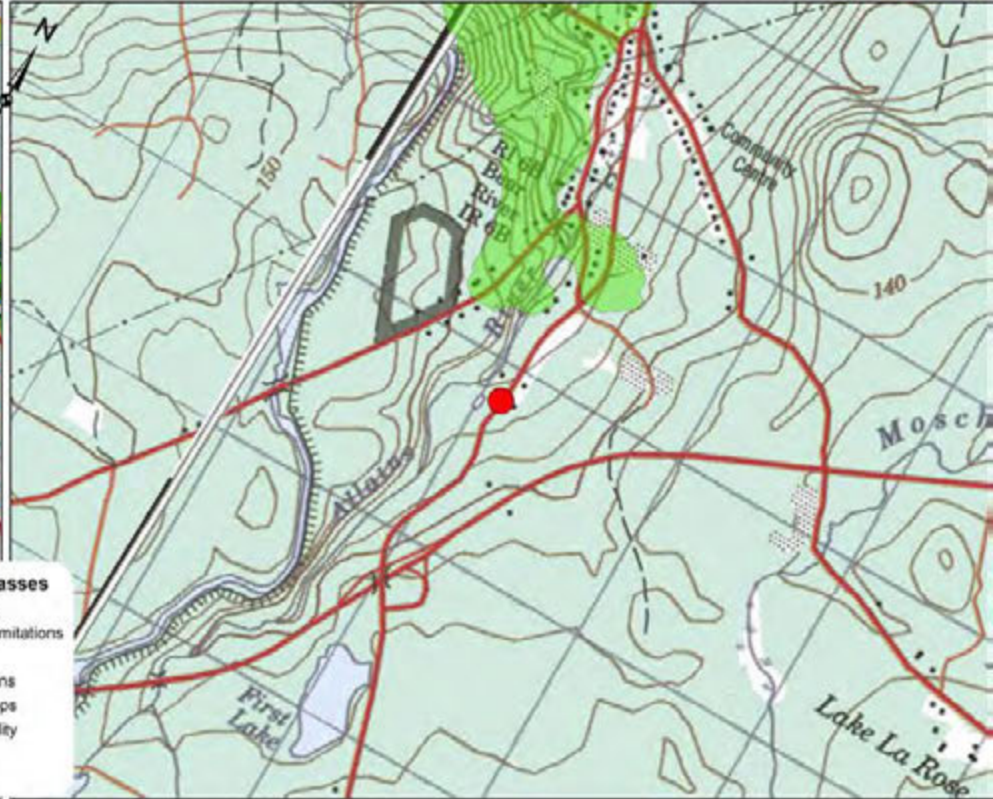
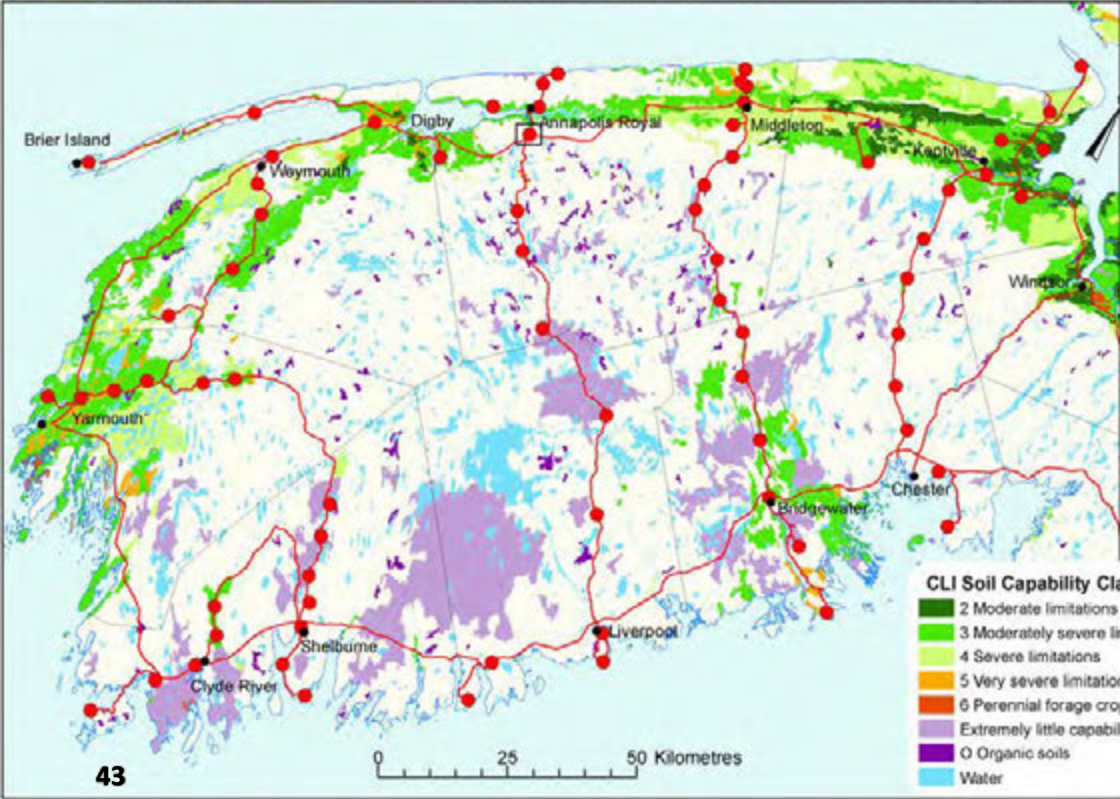


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 12, 2011 | January | 7 [0] | 0 [0] | -22.37 | 16.99 | -3.91 | -4.01 | 39.31 | 1.27 | 1.38 |
| | February | 0 [0] | 0 [0] | -19.33 | 10.52 | -2.90 | -2.85 | 58.97 | 2.11 | 2.09 |
| | March | 4 [0] | 0 [0] | -10.65 | 12.87 | 1.39 | 0.94 | 97.35 | 3.14 | 3.08 |
| | April | 49 [0] | 9 [0] | -5.08 | 20.63 | 5.81 | 5.17 | 139.57 | 4.65 | 4.23 |
| Frost Free Start: May 18, 2013 22:50 | May | 199 [96] | 71 [37] | -2.31 | 24.77 | 11.72 | 10.87 | 165.10 | 5.33 | 4.84 |
| | June | 328 [328] | 178 [178] | 4.69 | 29.32 | 15.74 | 15.57 | 154.22 | 5.14 | 4.78 |
| | July | 468 [468] | 313 [313] | 9.24 | 29.49 | 19.85 | 20.09 | 165.82 | 5.35 | 4.93 |
| Frost Free End: October 13, 2013 05:55 | August | 415 [415] | 260 [260] | 4.66 | 28.34 | 18.18 | 17.86 | 175.91 | 5.67 | 5.31 |
| | September | 294 [294] | 144 [144] | 1.40 | 26.26 | 14.67 | 14.43 | 104.59 | 3.49 | 3.48 |
| | October | 131 [72] | 30 [18] | -6.20 | 22.70 | 9.25 | 9.65 | 87.83 | 2.83 | 2.96 |
| Frost Free Duration: 147.3 days | November | 44 [0] | 12 [0] | -9.88 | 20.67 | 3.91 | 3.61 | 34.57 | 1.15 | 1.25 |
| | December | 4 [0] | 0 [0] | -17.90 | 11.86 | -2.06 | -2.03 | 24.70 | 0.80 | 0.79 |
| | Totals, Averages or Extremes | 1943 [1673] | 1017 [950] | -22.37 | 29.49 | 7.64 | 7.44 | 1,247.94 | 40.93 | 39.12 |

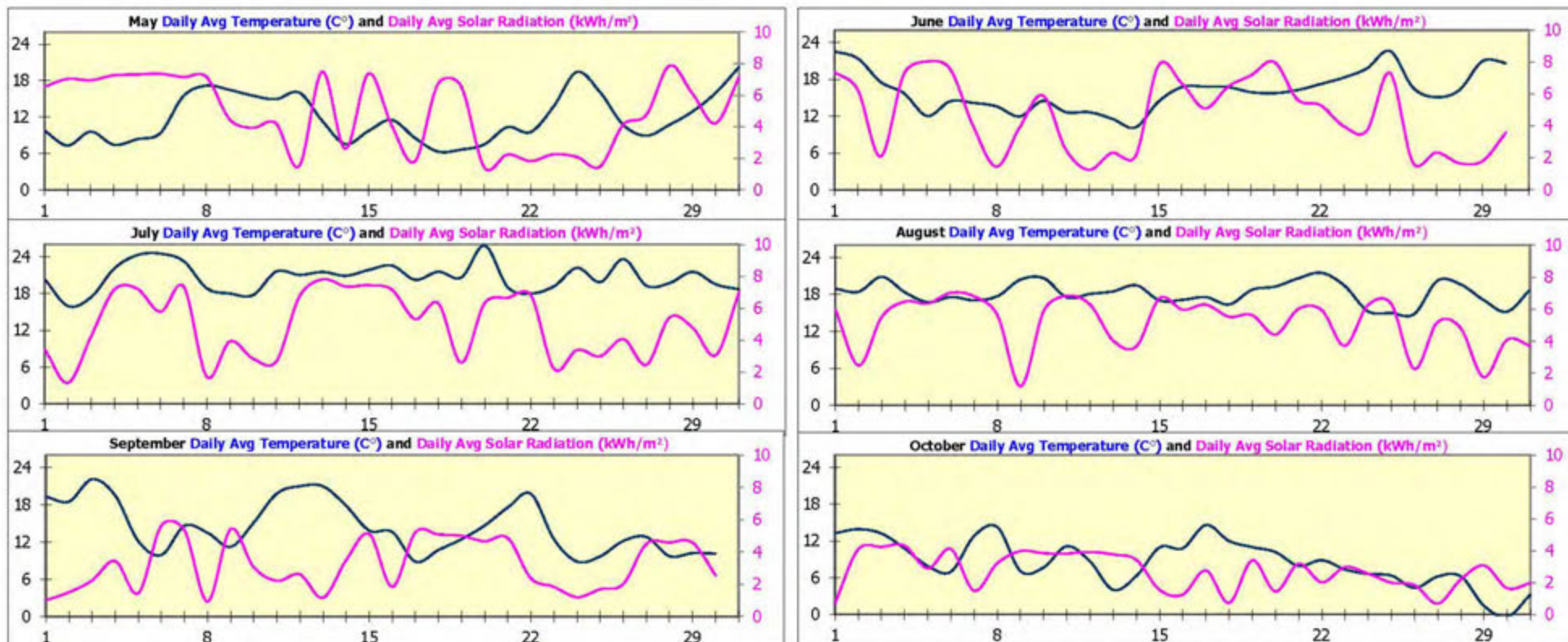
South West NS Temperature and Solar Radiation Study

Station Description

Station ID: AN4 (O)
Location: Annapolis Royal Easting: 303086.646
County: Annapolis Northing: 4953836.792
Contact: Susan & Gene Lane Height (m): 67.42
Deployment: 7/12/2011 [UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station AN4

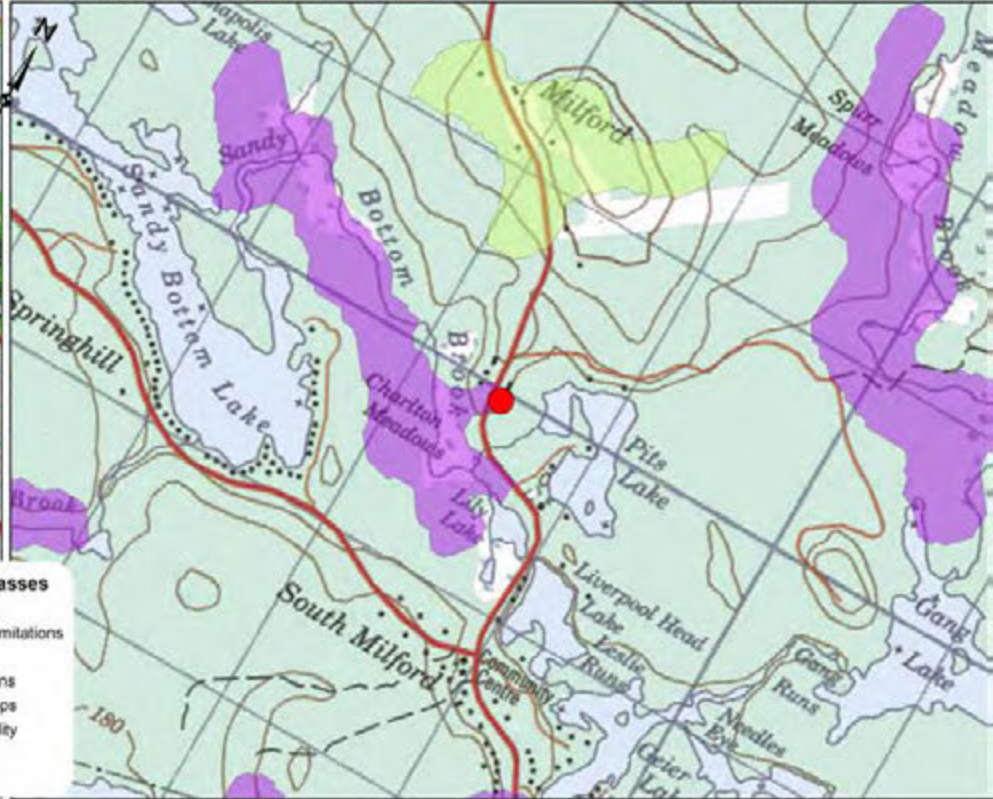
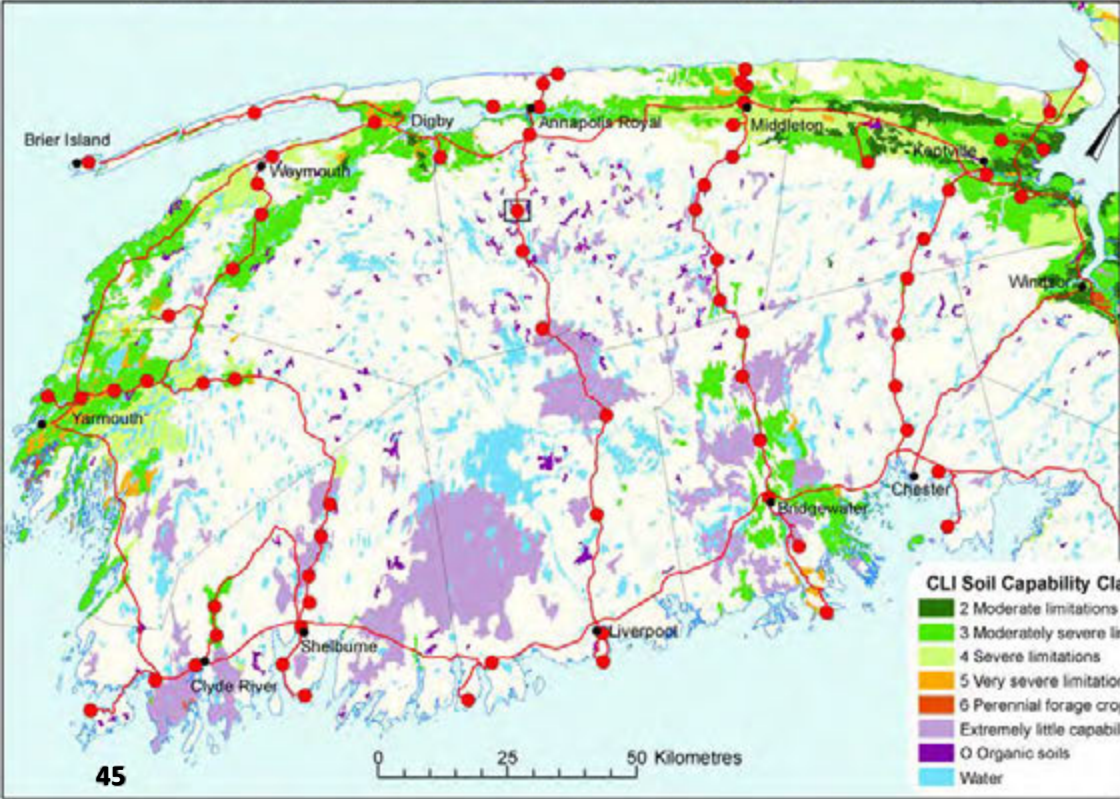


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 12, 2011 | January | 7 [0] | 0 [0] | -22.17 | 15.63 | -4.45 | -4.01 | 31.54 | 1.02 | 1.38 |
| | February | 0 [0] | 0 [0] | -20.93 | 10.37 | -3.45 | -2.85 | 52.45 | 1.87 | 2.09 |
| | March | 3 [0] | 0 [0] | -11.33 | 13.33 | 0.73 | 0.94 | 86.38 | 2.79 | 3.08 |
| | April | 47 [0] | 7 [0] | -5.85 | 22.73 | 5.30 | 5.17 | 125.66 | 4.19 | 4.23 |
| Frost Free Start: May 19, 2013 00:55 | May | 208 [95] | 80 [40] | -2.71 | 28.87 | 11.78 | 10.87 | 152.21 | 4.91 | 4.84 |
| | June | 345 [345] | 195 [195] | 4.69 | 33.47 | 16.17 | 15.57 | 139.64 | 4.66 | 4.78 |
| | July | 496 [496] | 341 [341] | 9.26 | 32.87 | 20.66 | 20.09 | 152.51 | 4.92 | 4.93 |
| Frost Free End: October 13, 2013 04:15 | August | 420 [420] | 265 [265] | 5.31 | 30.07 | 18.18 | 17.86 | 158.06 | 5.10 | 5.31 |
| | September | 293 [293] | 145 [145] | 1.04 | 26.65 | 14.45 | 14.43 | 96.24 | 3.21 | 3.48 |
| Frost Free Duration: 147.14 days | October | 127 [71] | 29 [18] | -5.64 | 22.70 | 8.58 | 9.65 | 82.76 | 2.67 | 2.96 |
| | November | 38 [0] | 10 [0] | -9.92 | 20.17 | 2.99 | 3.61 | 30.39 | 1.01 | 1.25 |
| | December | 3 [0] | 0 [0] | -17.51 | 12.17 | -2.69 | -2.03 | 18.91 | 0.61 | 0.79 |
| | Totals, Averages or Extremes | 1987 [1720] | 1072 [1004] | -22.17 | 33.47 | 7.35 | 7.44 | 1,126.75 | 36.95 | 39.12 |

South West NS Temperature and Solar Radiation Study

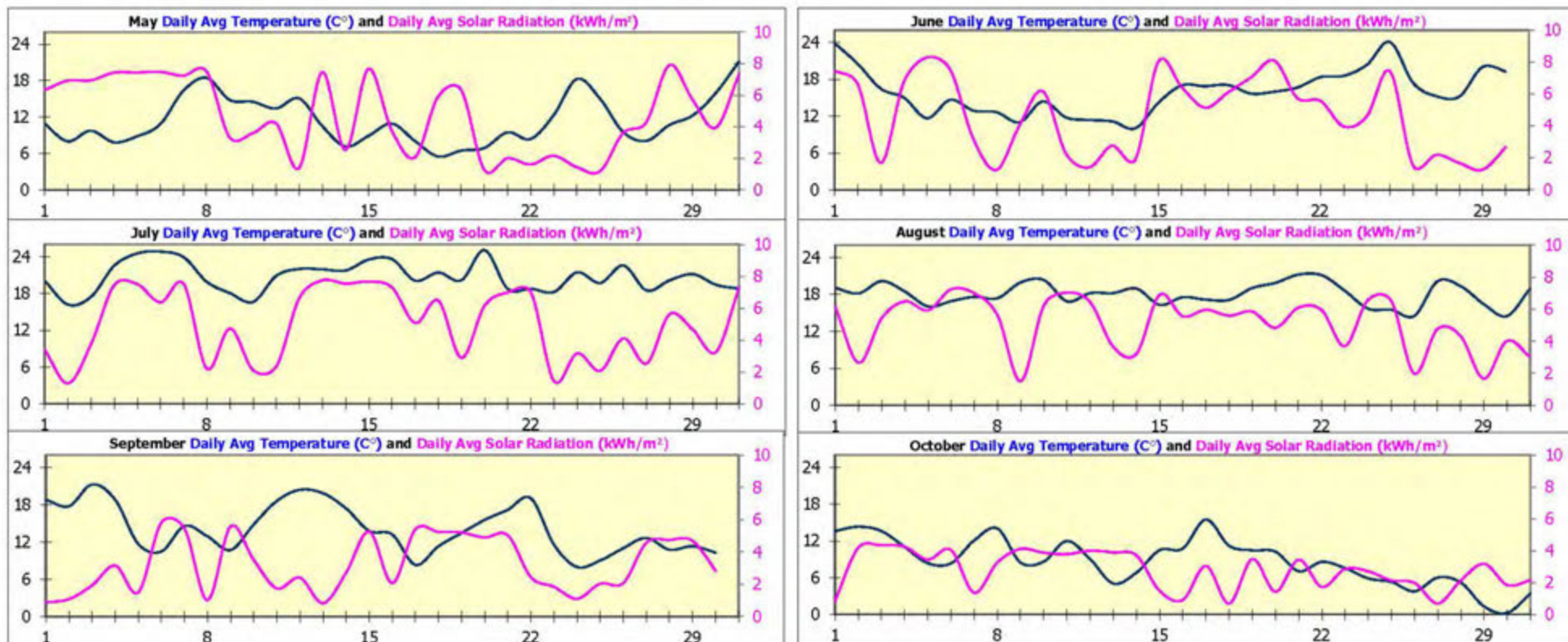
Station Description

| | | | |
|-------------|--------------|-----------------------|-------------|
| Station ID: | AN5 (O) | Easting: | 308475.086 |
| Location: | Milford | Northing: | 4939947.374 |
| County: | Annapolis | Height (m): | 173.24 |
| Contact: | Jim Langmire | [UTM Zone 20, NAD 83] | |
| Deployment: | 7/12/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station AN5

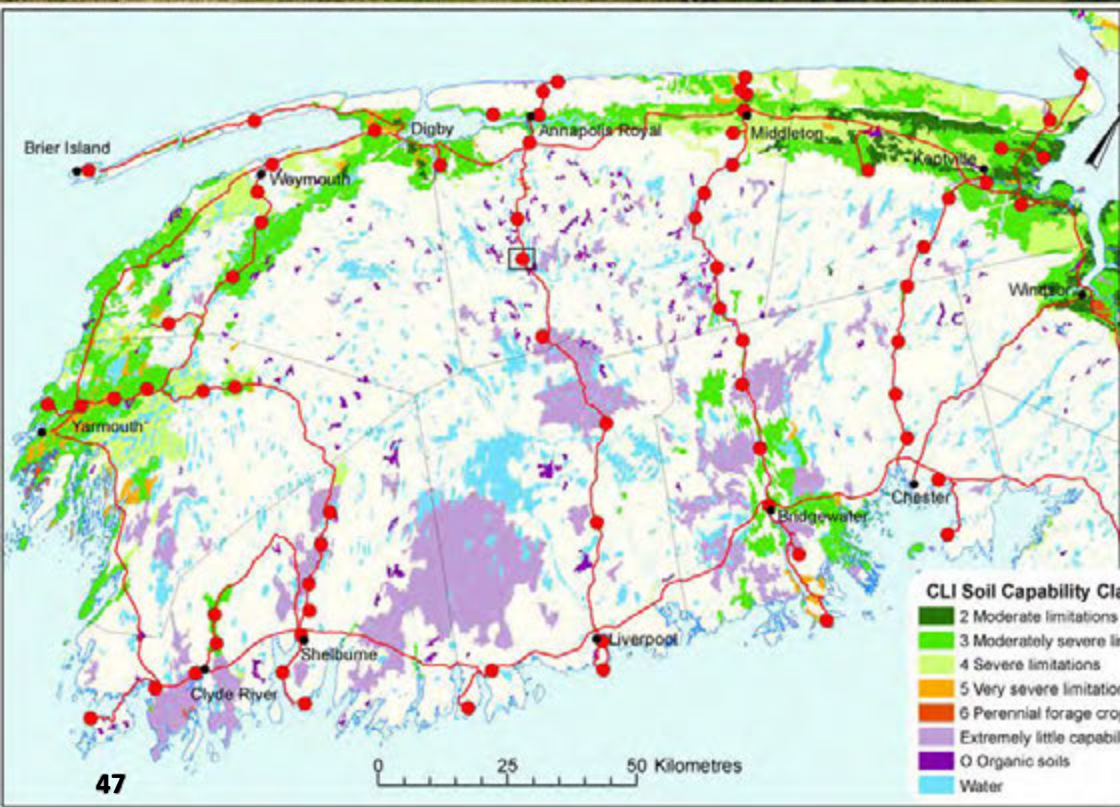


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 12, 2011 | January | 4 [0] | 0 [0] | -25.33 | 14.65 | -5.38 | -4.01 | 40.79 | 1.32 | 1.38 |
| | February | 0 [0] | 0 [0] | -22.32 | 8.29 | -4.18 | -2.85 | 58.14 | 2.08 | 2.09 |
| | March | 3 [0] | 0 [0] | -12.38 | 12.92 | 0.08 | 0.94 | 95.03 | 3.07 | 3.08 |
| | April | 45 [0] | 4 [0] | -5.23 | 20.60 | 4.87 | 5.17 | 131.98 | 4.40 | 4.23 |
| Frost Free Start: May 19, 2013 01:35 | May | 202 [87] | 74 [35] | -1.41 | 29.21 | 11.43 | 10.87 | 152.61 | 4.92 | 4.84 |
| | June | 341 [341] | 191 [191] | 5.49 | 33.08 | 15.99 | 15.57 | 143.40 | 4.78 | 4.78 |
| | July | 494 [494] | 339 [339] | 9.98 | 31.13 | 20.71 | 20.09 | 159.03 | 5.13 | 4.93 |
| Frost Free End: October 13, 2013 06:20 | August | 414 [414] | 259 [259] | 5.49 | 28.74 | 18.04 | 17.86 | 162.95 | 5.26 | 5.31 |
| | September | 282 [282] | 136 [136] | 0.96 | 26.23 | 14.17 | 14.43 | 100.31 | 3.34 | 3.48 |
| | October | 130 [75] | 31 [20] | -5.08 | 23.55 | 8.67 | 9.65 | 87.82 | 2.83 | 2.96 |
| Frost Free Duration: 147.2 days | November | 33 [0] | 7 [0] | -11.87 | 18.91 | 2.52 | 3.61 | 35.38 | 1.18 | 1.25 |
| | December | 2 [0] | 0 [0] | -17.38 | 11.54 | -3.31 | -2.03 | 24.33 | 0.79 | 0.79 |
| | Totals, Averages or Extremes | 1950 [1693] | 1041 [980] | -25.33 | 33.08 | 6.97 | 7.44 | 1,191.77 | 39.09 | 39.12 |

South West NS Temperature and Solar Radiation Study

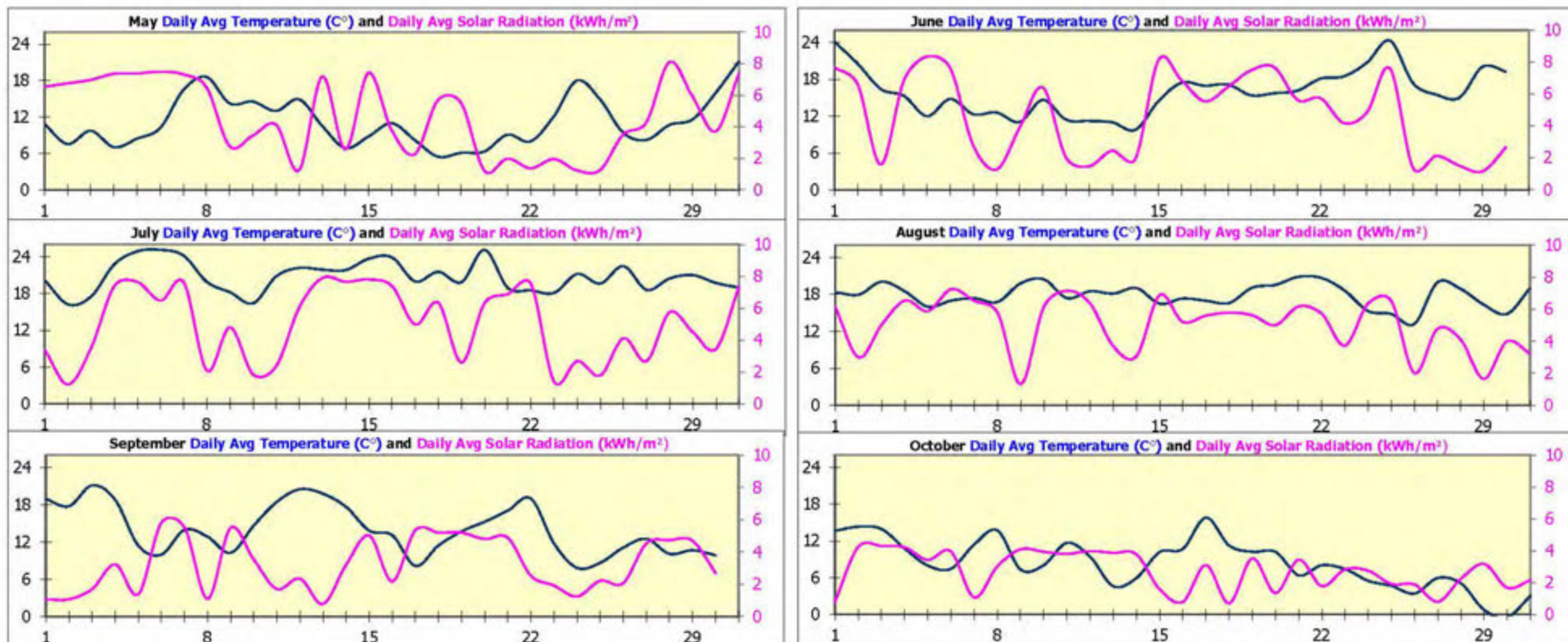
Station Description

| | | | |
|-------------|-------------------|-----------------------|-------------|
| Station ID: | AN6 (O) | Easting: | 313210.657 |
| Location: | South Milford | Northing: | 4933647.484 |
| County: | Annapolis | Height (m): | 166.23 |
| Contact: | Leslee Fredericks | [UTM Zone 20, NAD 83] | |
| Deployment: | 7/12/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station AN6



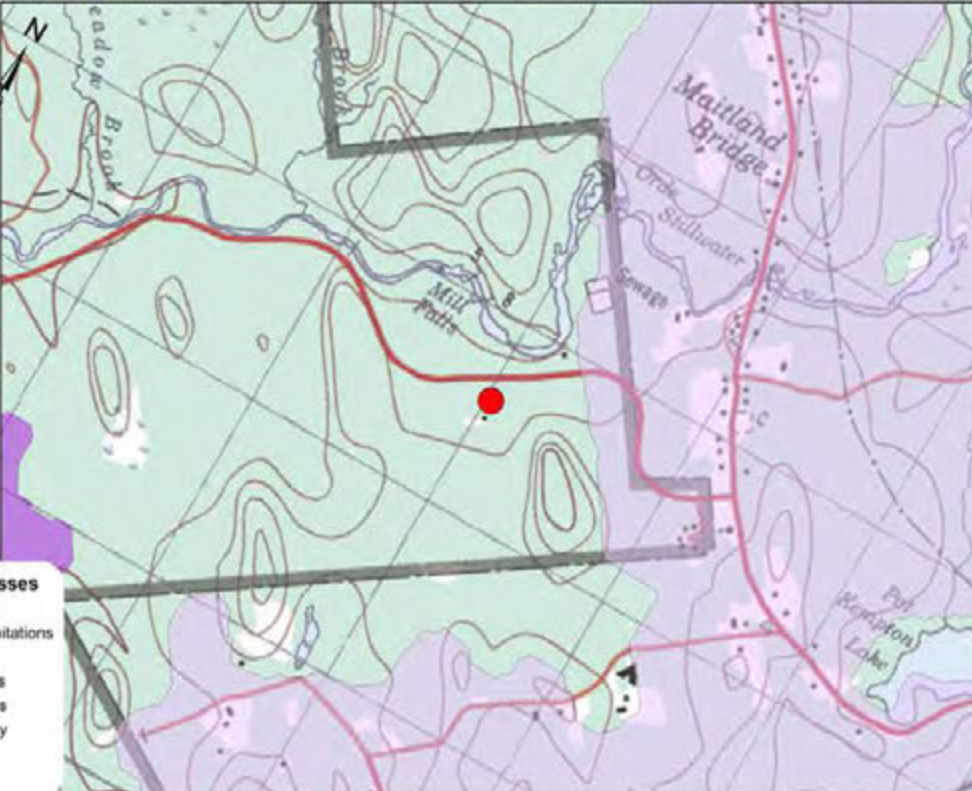
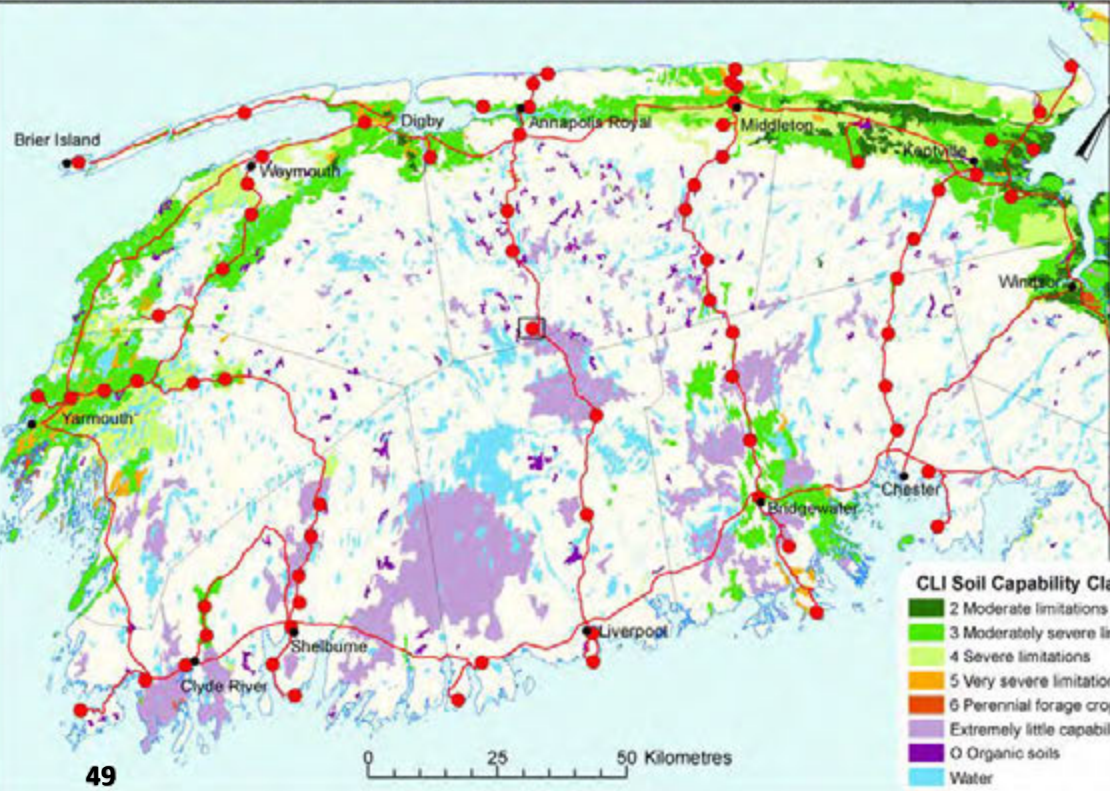
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 4 [0] | 0 [0] | -24.82 | 14.41 | -5.56 | -4.01 | 40.93 | 1.32 | 1.38 |
| Station Deployment: | February | 0 [0] | 0 [0] | -22.83 | 8.72 | -4.23 | -2.85 | 55.82 | 1.99 | 2.09 |
| July 12, 2011 | March | 3 [0] | 0 [0] | -12.49 | 13.62 | 0.02 | 0.94 | 93.04 | 3.00 | 3.08 |
| | April | 41 [0] | 4 [0] | -7.25 | 21.10 | 4.71 | 5.17 | 128.34 | 4.28 | 4.23 |
| Frost Free Start: | May | 191 [27] | 71 [17] | -2.92 | 29.11 | 11.23 | 10.87 | 146.42 | 4.72 | 4.84 |
| May 29, 2013 06:10 | June | 334 [334] | 184 [184] | 4.38 | 33.23 | 15.98 | 15.57 | 142.09 | 4.74 | 4.78 |
| | July | 491 [491] | 336 [336] | 8.00 | 31.74 | 20.76 | 20.09 | 155.77 | 5.03 | 4.93 |
| Frost Free End: | August | 405 [405] | 250 [250] | 3.12 | 28.96 | 17.86 | 17.86 | 158.61 | 5.12 | 5.31 |
| October 13, 2013 03:45 | September | 278 [278] | 134 [134] | -0.48 | 26.65 | 14.02 | 14.43 | 98.91 | 3.30 | 3.48 |
| | October | 118 [71] | 27 [17] | -6.29 | 24.03 | 8.35 | 9.65 | 85.58 | 2.76 | 2.96 |
| Frost Free Duration: | November | 32 [0] | 6 [0] | -12.94 | 18.75 | 2.29 | 3.61 | 34.81 | 1.16 | 1.25 |
| 136.9 days | December | 2 [0] | 0 [0] | -18.03 | 11.59 | -3.42 | -2.03 | 24.40 | 0.79 | 0.79 |
| | Totals, Averages or Extremes | 1899 [1606] | 1012 [938] | -24.82 | 33.23 | 6.83 | 7.44 | 1,164.72 | 38.20 | 39.12 |

South West NS Temperature and Solar Radiation Study

Station Description

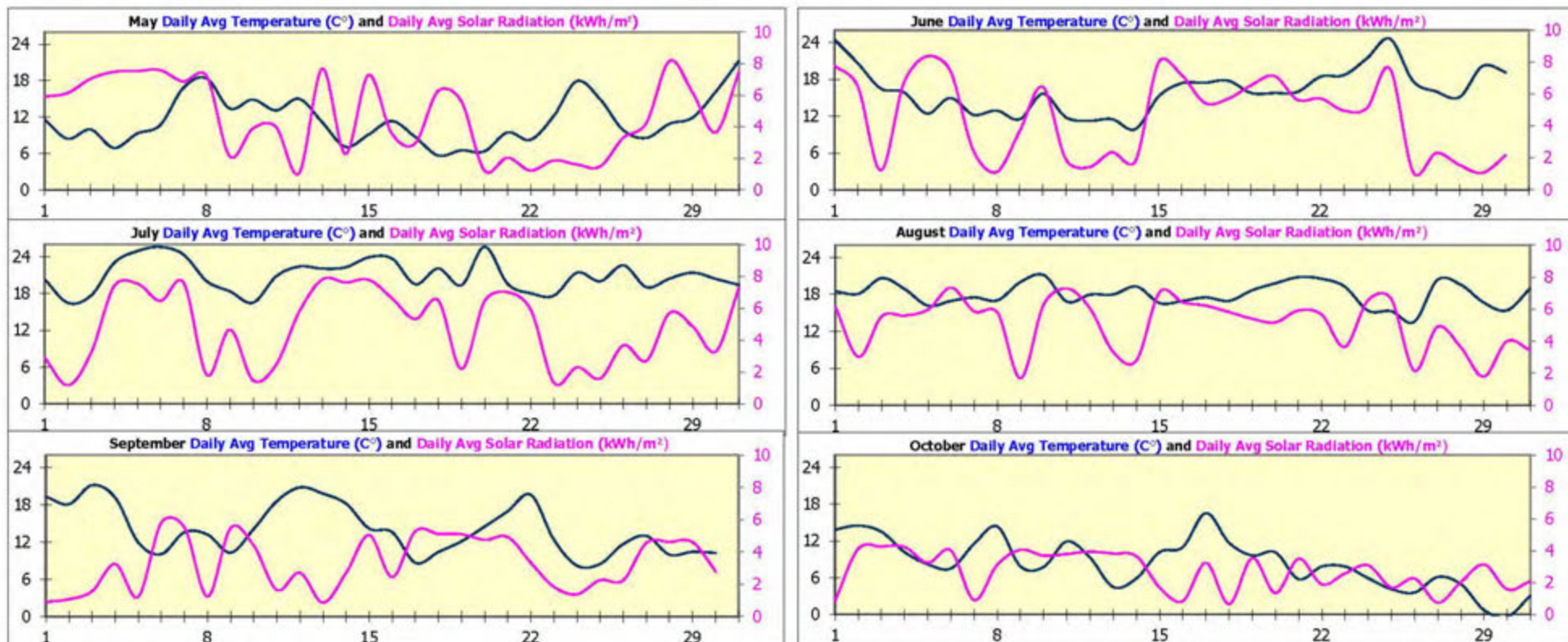
Station ID: AN7 (O)
Location: Maitland Bridge
County: Annapolis
Contact: KNP&NHS
Deployment: 8/24/2011

Easting: 324096.244
Northing: 4922598.923
Height (m): 119.32
[UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station AN7

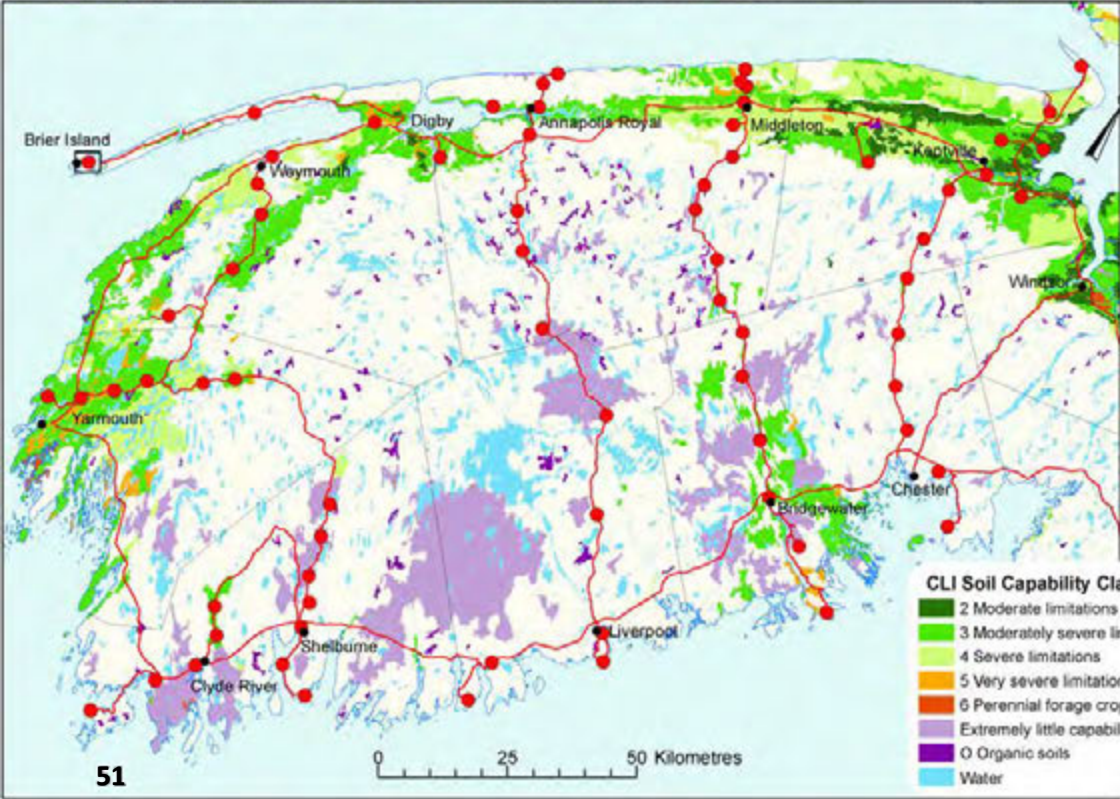


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: August 24, 2011 | January | 4 [0] | 0 [0] | -24.77 | 14.34 | -5.46 | -4.01 | 38.19 | 1.23 | 1.38 |
| | February | 0 [0] | 0 [0] | -22.94 | 9.93 | -3.84 | -2.85 | 55.51 | 1.98 | 2.09 |
| | March | 3 [0] | 0 [0] | -11.90 | 14.48 | 0.35 | 0.94 | 89.14 | 2.88 | 3.08 |
| | April | 45 [0] | 4 [0] | -7.71 | 21.44 | 5.00 | 5.17 | 122.64 | 4.09 | 4.23 |
| Frost Free Start: May 29, 2013 05:56 | May | 207 [28] | 77 [18] | -2.74 | 30.29 | 11.48 | 10.87 | 144.07 | 4.65 | 4.84 |
| | June | 344 [344] | 194 [194] | 4.06 | 34.12 | 16.27 | 15.57 | 135.68 | 4.52 | 4.78 |
| | July | 498 [498] | 343 [343] | 8.49 | 32.72 | 20.92 | 20.09 | 147.39 | 4.75 | 4.93 |
| Frost Free End: October 13, 2013 02:51 | August | 410 [410] | 255 [255] | 3.51 | 30.80 | 18.04 | 17.86 | 156.33 | 5.04 | 5.31 |
| | September | 278 [278] | 133 [133] | 0.19 | 26.60 | 14.10 | 14.43 | 98.33 | 3.28 | 3.48 |
| | October | 123 [74] | 29 [19] | -6.33 | 24.22 | 8.38 | 9.65 | 83.24 | 2.69 | 2.96 |
| Frost Free Duration: 136.87 days | November | 33 [0] | 7 [0] | -11.83 | 18.63 | 2.44 | 3.61 | 32.82 | 1.09 | 1.25 |
| | December | 3 [0] | 0 [0] | -19.10 | 11.44 | -3.24 | -2.03 | 20.67 | 0.67 | 0.79 |
| | Totals, Averages or Extremes | 1948 [1632] | 1042 [962] | -24.77 | 34.12 | 7.04 | 7.44 | 1,124.01 | 36.87 | 39.12 |

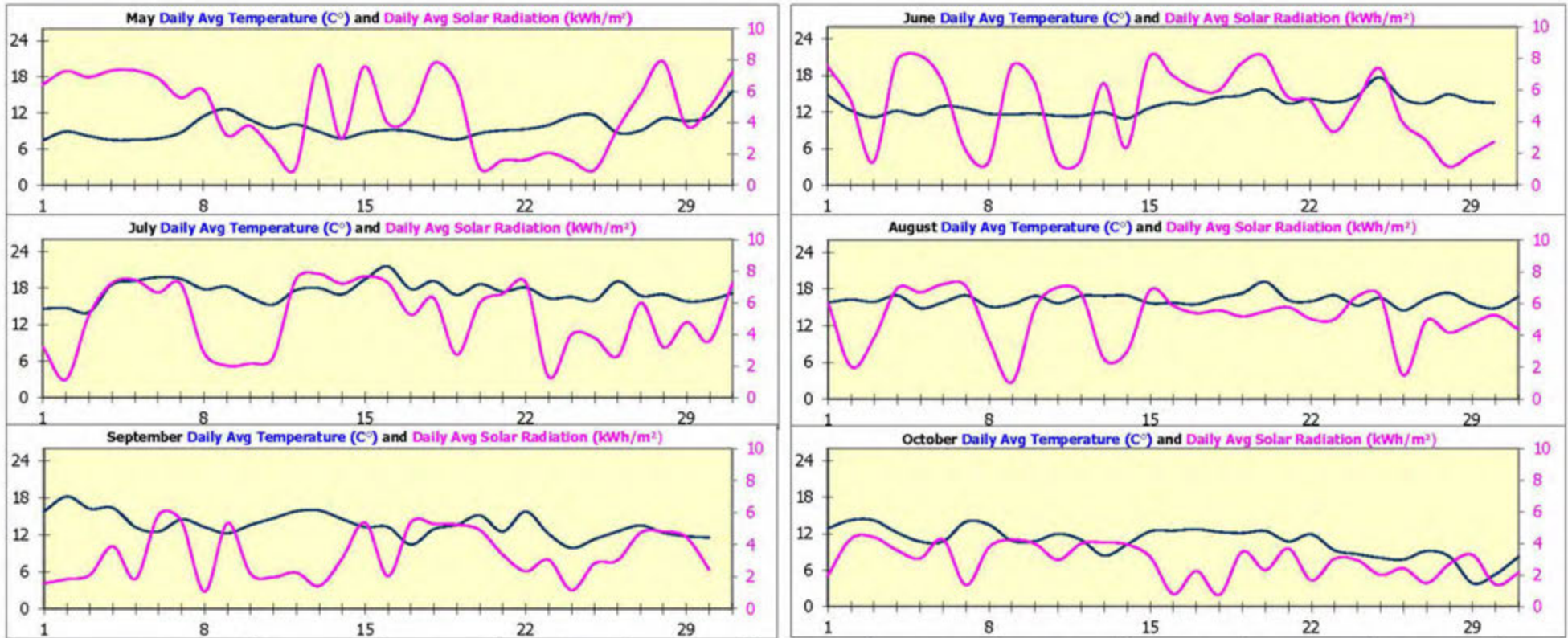
South West NS Temperature and Solar Radiation Study

Station Description

Station ID: BI1 (O)
 Location: Brier Island Easting: 231385.732
 County: Digby Northing: 4906214.738
 Contact: David Pugh Height (m): 31.6
 Deployment: 8/26/2011 [UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station BI1

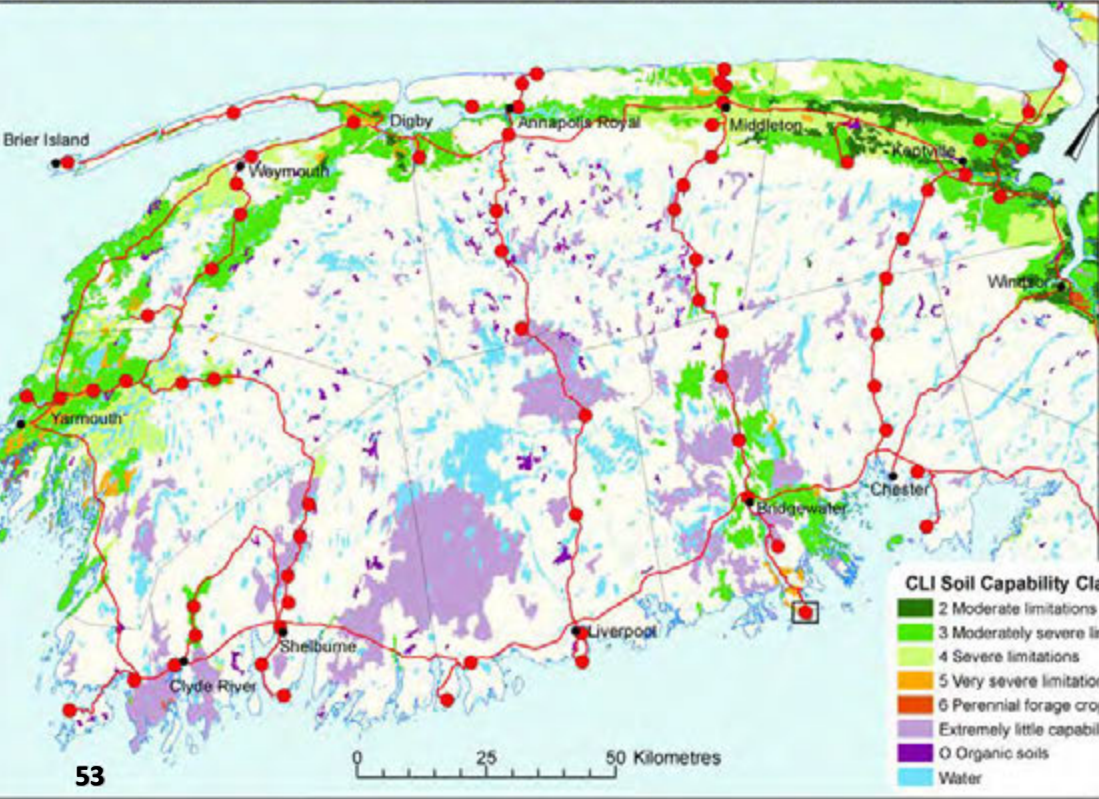


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|--|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: August 26, 2011 | January | 5 [0] | 0 [0] | -14.51 | 10.88 | -1.69 | -4.01 | 38.49 | 1.24 | 1.38 |
| | February | 1 [0] | 0 [0] | -12.45 | 9.26 | -1.32 | -2.85 | 49.58 | 1.77 | 2.09 |
| | March | 5 [0] | 0 [0] | -9.13 | 11.08 | 1.96 | 0.94 | 96.00 | 3.10 | 3.08 |
| | April | 34 [31] | 0 [0] | -2.74 | 15.20 | 5.08 | 5.17 | 127.72 | 4.26 | 4.23 |
| Frost Free Start: April 12, 2013 20:52 | May | 161 [161] | 26 [26] | 1.70 | 21.39 | 9.58 | 10.87 | 147.37 | 4.75 | 4.84 |
| | June | 264 [264] | 114 [114] | 7.04 | 24.80 | 13.20 | 15.57 | 148.99 | 4.97 | 4.78 |
| Frost Free End: November 24, 2013 06:47 | July | 404 [404] | 249 [249] | 11.56 | 28.39 | 17.43 | 20.09 | 155.27 | 5.01 | 4.93 |
| | August | 374 [374] | 219 [219] | 9.29 | 27.14 | 16.22 | 17.86 | 157.70 | 5.09 | 5.31 |
| | September | 275 [275] | 125 [125] | 6.56 | 23.28 | 13.64 | 14.43 | 100.58 | 3.35 | 3.48 |
| Frost Free Duration: 225.41 days | October | 183 [183] | 49 [49] | -0.68 | 19.58 | 10.69 | 9.65 | 89.33 | 2.88 | 2.96 |
| | November | 53 [47] | 8 [8] | -4.99 | 16.03 | 5.01 | 3.61 | 58.99 | 1.97 | 1.25 |
| | December | 5 [0] | 0 [0] | -13.24 | 10.56 | -0.41 | -2.03 | 22.27 | 0.72 | 0.79 |
| | Totals, Averages or Extremes | 1764 [1739] | 790 [790] | -14.51 | 28.39 | 7.45 | 7.44 | 1,192.29 | 39.10 | 39.12 |

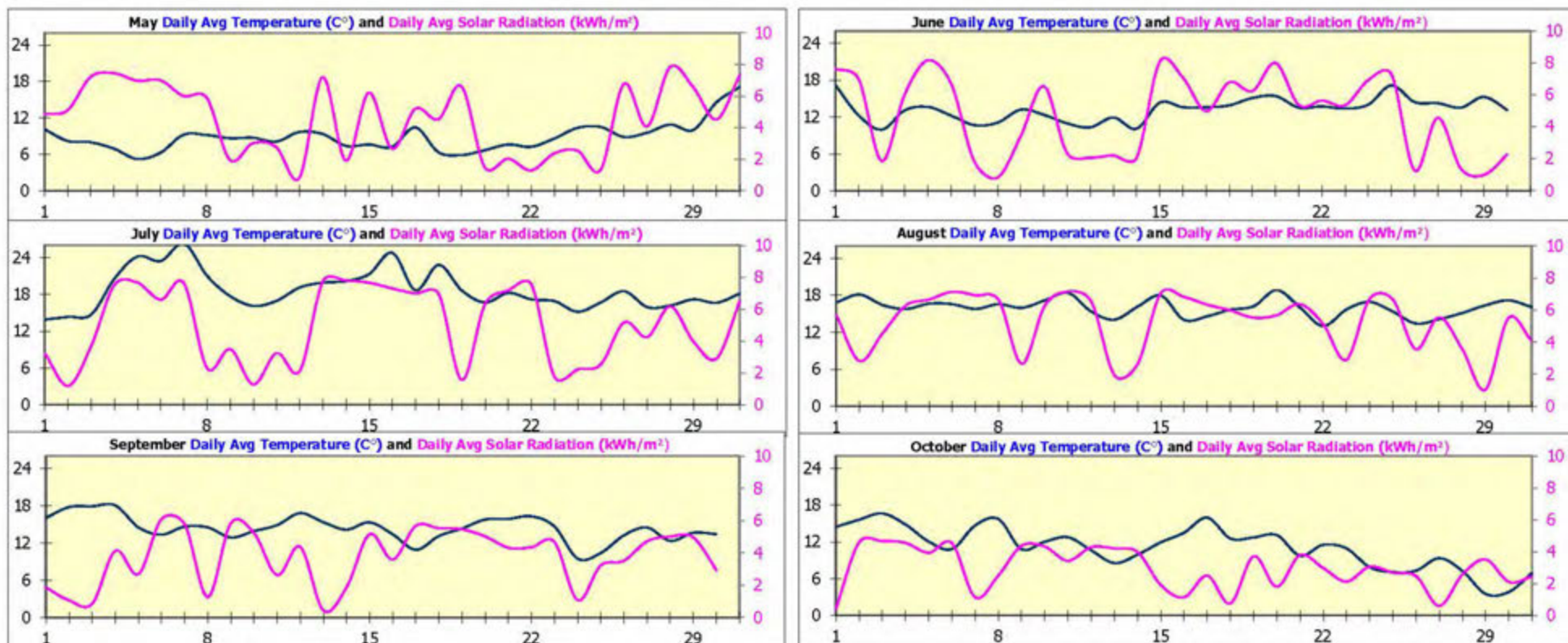
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|------------|-----------------------|-------------|
| Station ID: | BR1 (O) | Easting: | 399202.424 |
| Location: | Kingsburg | Northing: | 4902539.408 |
| County: | Lunenburg | Height (m): | 5.67 |
| Contact: | Stan Smith | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/6/2011 | | |



2013 Temperature and Solar Radiation Summary for Station BR1

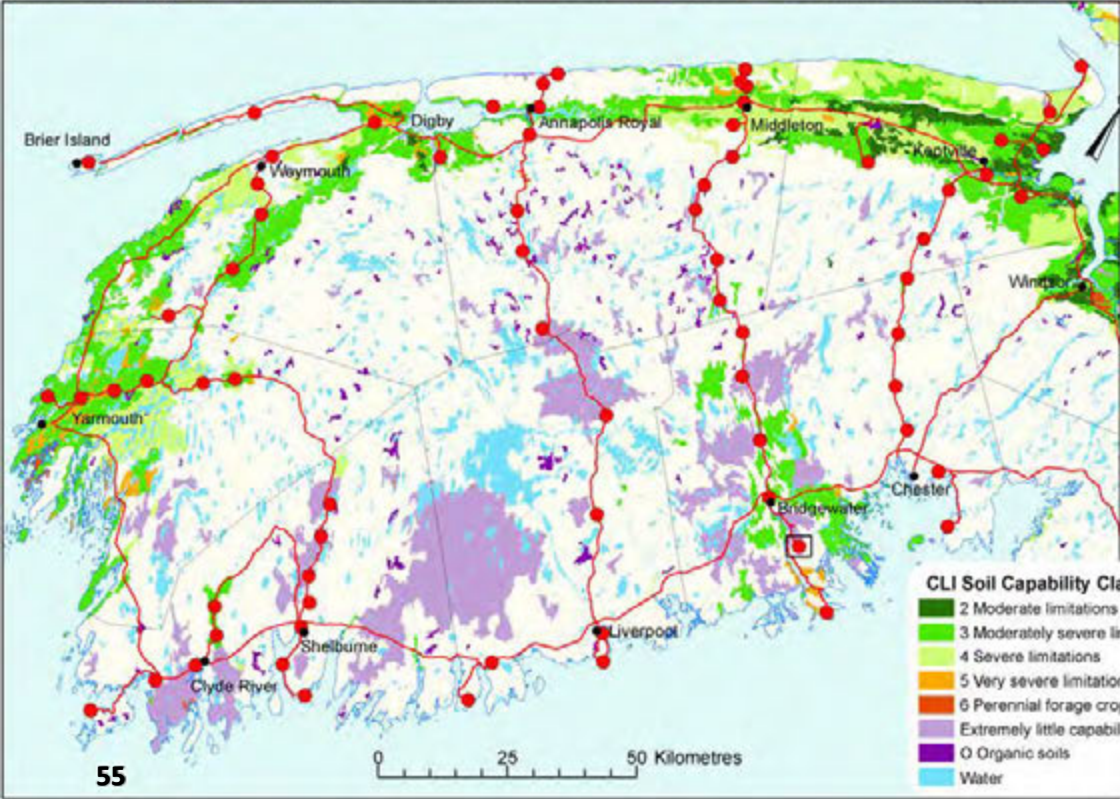


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|--|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 06, 2011 | January | 4 [0] | 0 [0] | -17.60 | 10.10 | -3.39 | -4.01 | 52.14 | 1.68 | 1.38 |
| | February | 0 [0] | 0 [0] | -17.73 | 8.22 | -2.03 | -2.85 | 61.96 | 2.21 | 2.09 |
| | March | 2 [0] | 0 [0] | -11.25 | 11.52 | 1.16 | 0.94 | 98.18 | 3.17 | 3.08 |
| | April | 30 [16] | 0 [0] | -3.66 | 17.27 | 4.54 | 5.17 | 125.23 | 4.18 | 4.23 |
| Frost Free Start: April 22, 2013 06:50 | May | 135 [135] | 20 [20] | 1.32 | 24.29 | 8.86 | 10.87 | 141.21 | 4.56 | 4.84 |
| | June | 265 [265] | 115 [115] | 8.32 | 23.71 | 13.25 | 15.57 | 140.75 | 4.69 | 4.78 |
| Frost Free End: November 13, 2013 04:20 | July | 439 [439] | 284 [284] | 11.90 | 33.26 | 18.64 | 20.09 | 151.96 | 4.90 | 4.93 |
| | August | 356 [356] | 201 [201] | 10.76 | 25.52 | 16.02 | 17.86 | 162.14 | 5.23 | 5.31 |
| | September | 296 [296] | 146 [146] | 5.59 | 23.64 | 14.40 | 14.43 | 113.35 | 3.78 | 3.48 |
| Frost Free Duration: 204.9 days | October | 192 [192] | 62 [62] | -0.99 | 22.80 | 11.13 | 9.65 | 91.06 | 2.94 | 2.96 |
| | November | 46 [29] | 6 [6] | -8.03 | 14.77 | 4.33 | 3.61 | 43.52 | 1.45 | 1.25 |
| | December | 4 [0] | 0 [0] | -15.79 | 10.98 | -1.20 | -2.03 | 29.75 | 0.96 | 0.79 |
| | Totals, Averages or Extremes | 1769 [1728] | 834 [834] | -17.73 | 33.26 | 7.14 | 7.44 | 1,211.25 | 39.74 | 39.12 |

South West NS Temperature and Solar Radiation Study

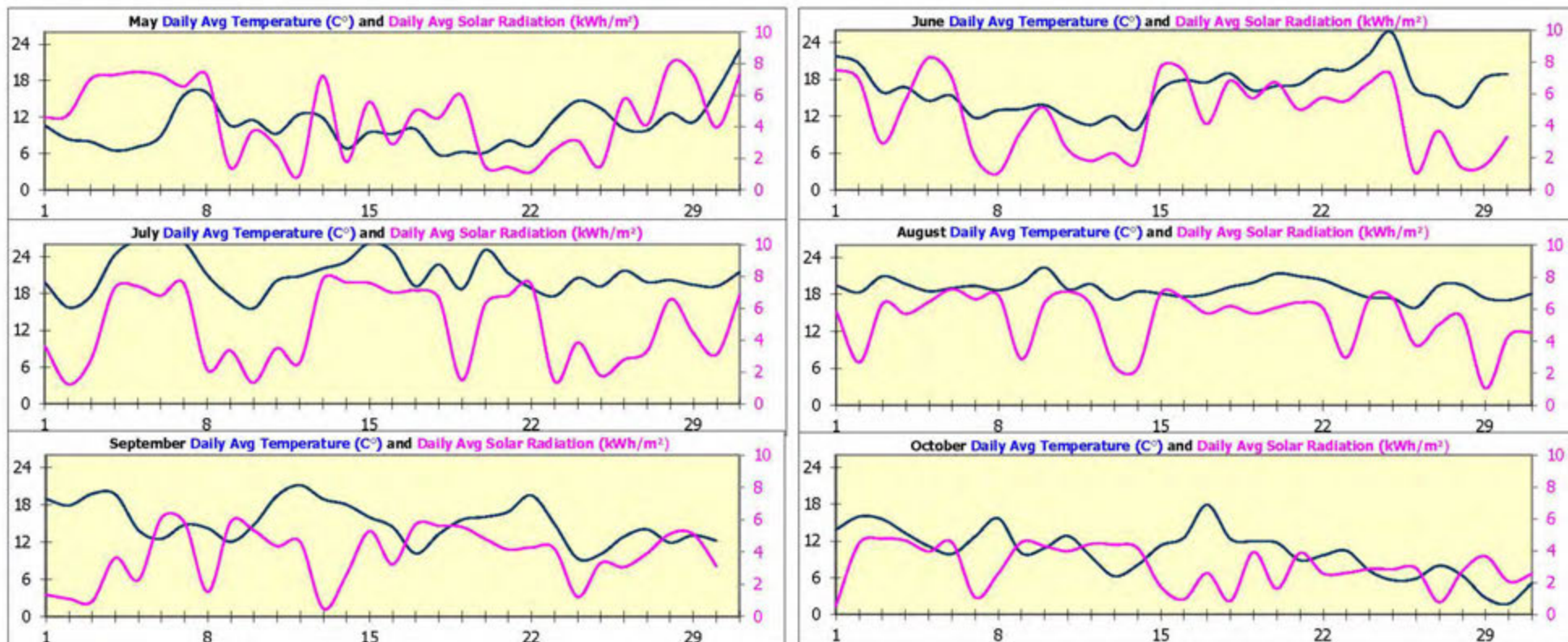
Station Description

| | | | |
|-------------|-------------------|-----------------------|-------------|
| Station ID: | BR2 (O) | Easting: | 388205.892 |
| Location: | Crouse Settlement | Northing: | 4910969.737 |
| County: | Lunenburg | Height (m): | 51.5 |
| Contact: | Bev Martel | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/3/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station BR2

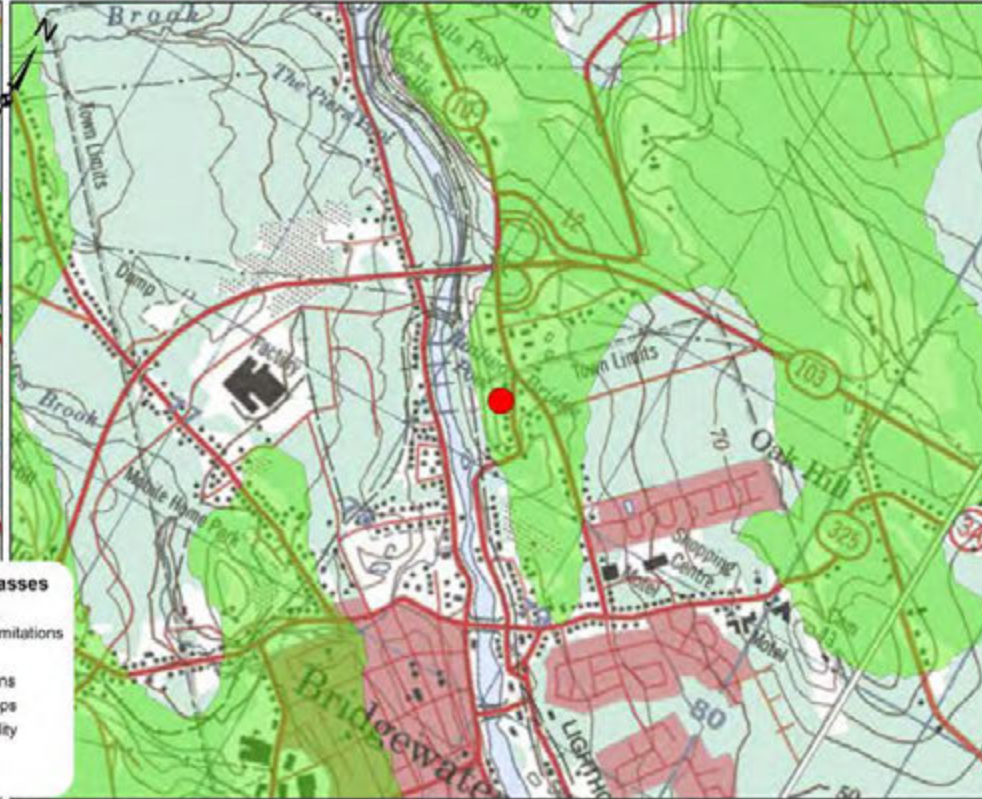
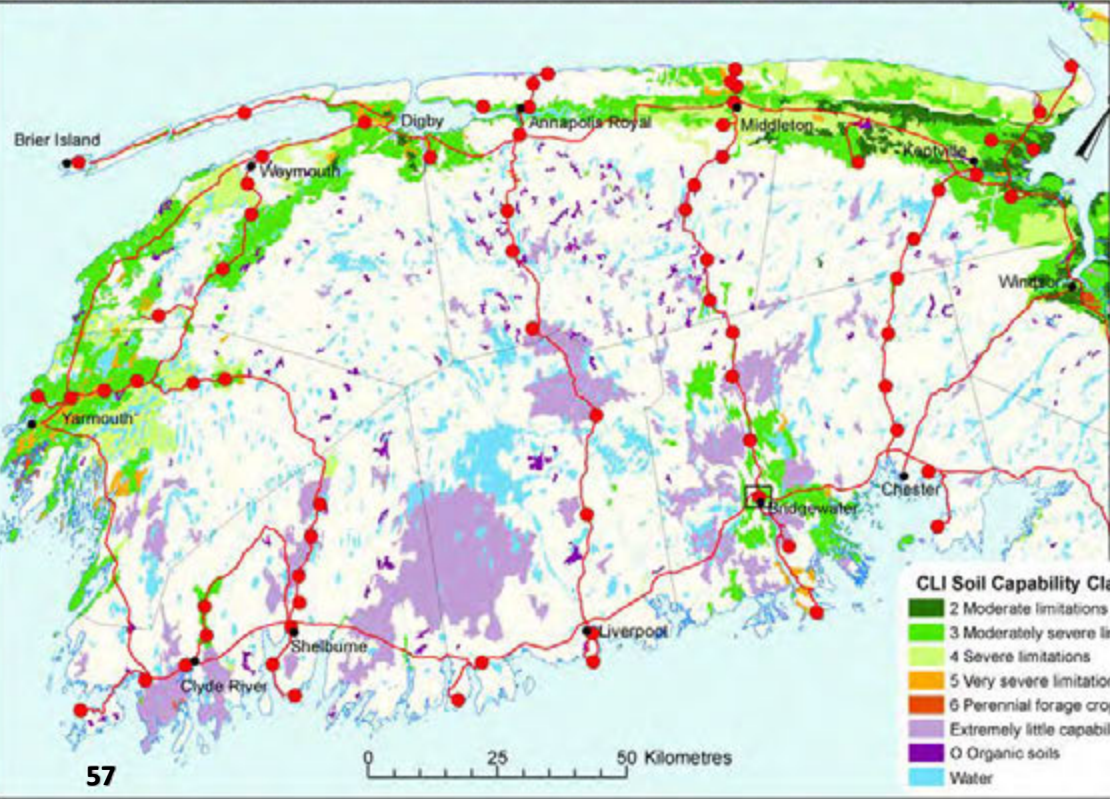


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 03, 2011 | January | 5 [0] | 0 [0] | -18.43 | 11.37 | -4.20 | -4.01 | 53.73 | 1.73 | 1.38 |
| | February | 0 [0] | 0 [0] | -22.12 | 8.44 | -2.76 | -2.85 | 65.45 | 2.34 | 2.09 |
| | March | 2 [0] | 0 [0] | -11.29 | 10.69 | 0.93 | 0.94 | 100.23 | 3.23 | 3.08 |
| | April | 50 [0] | 5 [0] | -5.61 | 22.23 | 5.14 | 5.17 | 127.86 | 4.26 | 4.23 |
| Frost Free Start: May 05, 2013 06:15 | May | 190 [172] | 62 [60] | -0.42 | 31.56 | 10.59 | 10.87 | 143.75 | 4.64 | 4.84 |
| | June | 356 [356] | 206 [206] | 7.49 | 33.86 | 16.36 | 15.57 | 140.36 | 4.68 | 4.78 |
| | July | 511 [511] | 356 [356] | 11.47 | 34.44 | 21.08 | 20.09 | 151.24 | 4.88 | 4.93 |
| Frost Free End: October 29, 2013 23:50 | August | 446 [446] | 291 [291] | 8.34 | 29.21 | 18.93 | 17.86 | 167.93 | 5.42 | 5.31 |
| | September | 326 [326] | 176 [176] | 4.27 | 29.02 | 15.22 | 14.43 | 115.51 | 3.85 | 3.48 |
| | October | 168 [168] | 52 [52] | -3.90 | 23.71 | 10.15 | 9.65 | 94.84 | 3.06 | 2.96 |
| Frost Free Duration: 177.73 days | November | 44 [0] | 11 [0] | -10.90 | 18.63 | 3.80 | 3.61 | 44.32 | 1.48 | 1.25 |
| | December | 4 [0] | 0 [0] | -16.53 | 12.05 | -2.03 | -2.03 | 29.05 | 0.94 | 0.79 |
| | Totals, Averages or Extremes | 2102 [1979] | 1159 [1141] | -22.12 | 34.44 | 7.77 | 7.44 | 1,234.27 | 40.50 | 39.12 |

South West NS Temperature and Solar Radiation Study

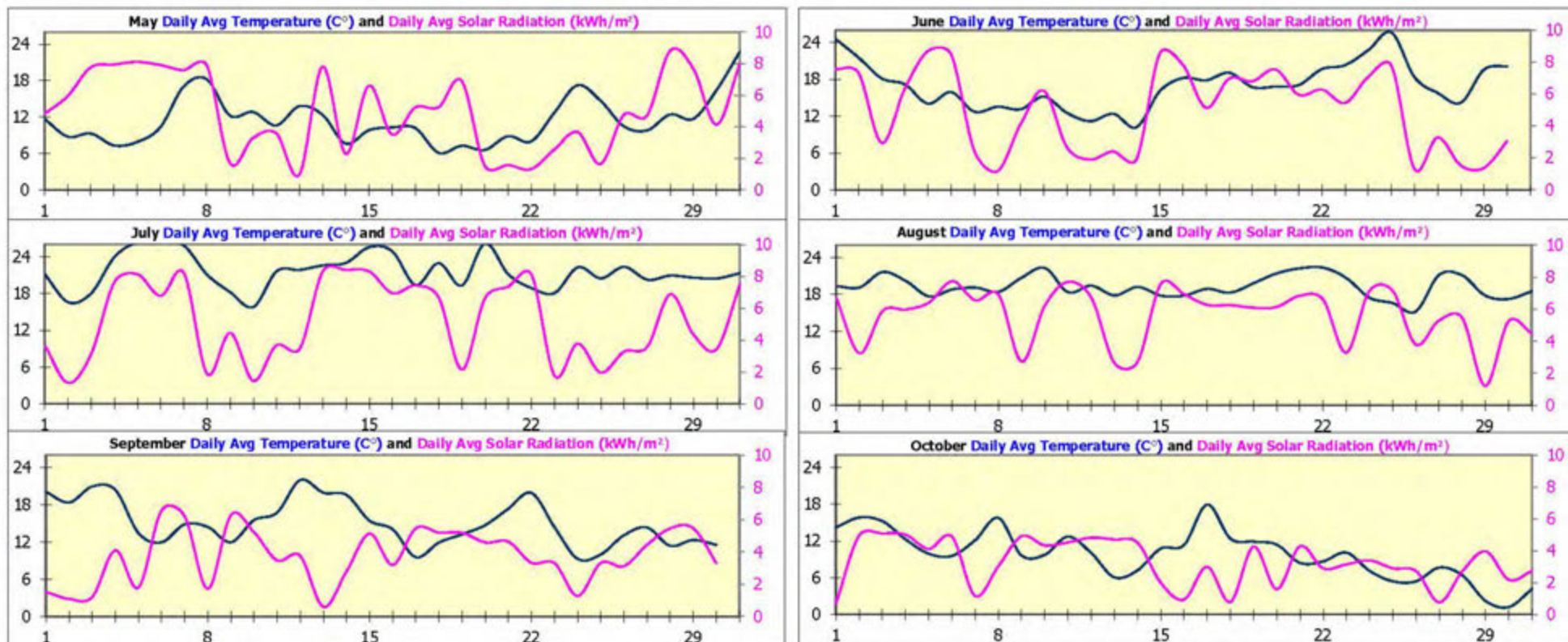
Station Description

Station ID: BR3 (O)
Location: Bridgewater Easting: 378345.598
County: Lunenburg Northing: 4916323.686
Contact: Kevin Johnson Height (m): 39.52
Deployment: 5/5/2011 [UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station BR3

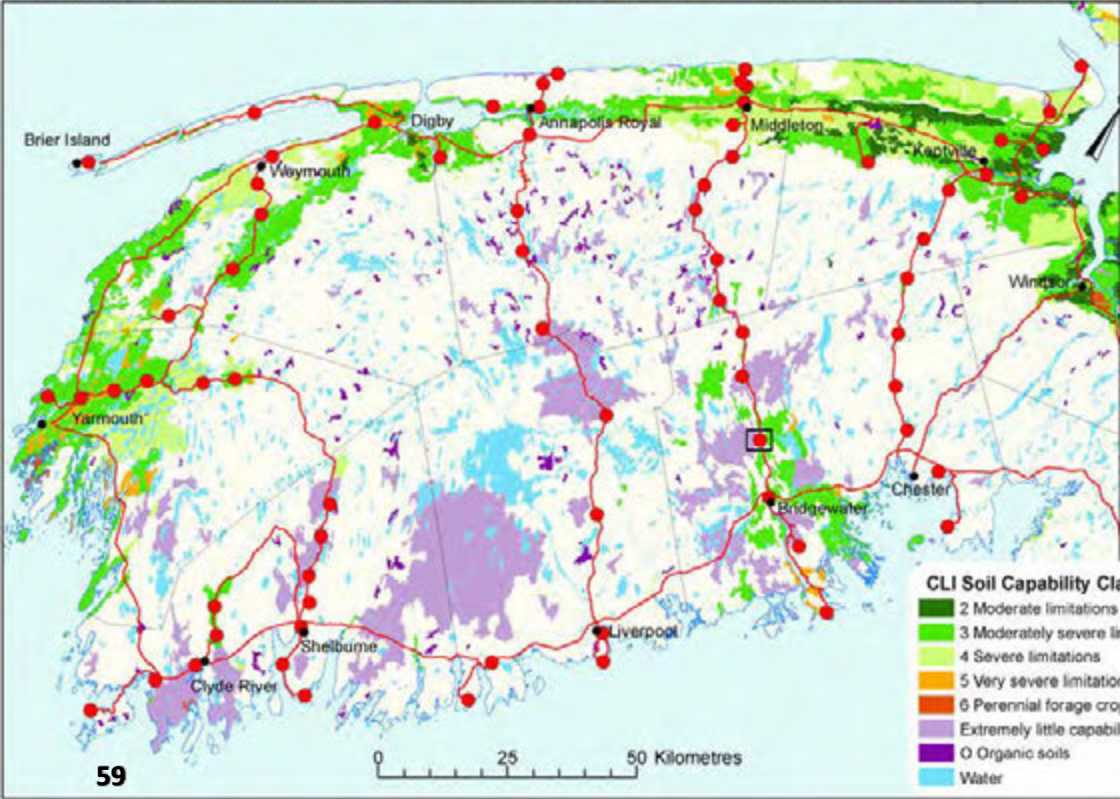


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 05, 2011 | January | 6 [0] | 0 [0] | -21.42 | 13.06 | -4.45 | -4.01 | 54.88 | 1.77 | 1.38 |
| | February | 0 [0] | 0 [0] | -22.37 | 8.52 | -2.86 | -2.85 | 67.37 | 2.41 | 2.09 |
| | March | 3 [0] | 0 [0] | -11.29 | 12.94 | 1.13 | 0.94 | 101.30 | 3.27 | 3.08 |
| | April | 54 [0] | 8 [0] | -5.48 | 22.51 | 5.61 | 5.17 | 132.58 | 4.42 | 4.23 |
| Frost Free Start: May 19, 2013 02:10 | May | 216 [95] | 82 [42] | -1.10 | 30.85 | 11.46 | 10.87 | 148.79 | 4.80 | 4.84 |
| | June | 373 [373] | 223 [223] | 6.91 | 33.18 | 17.02 | 15.57 | 143.71 | 4.79 | 4.78 |
| Frost Free End: October 29, 2013 21:32 | July | 519 [519] | 364 [364] | 10.49 | 33.10 | 21.53 | 20.09 | 153.64 | 4.96 | 4.93 |
| | August | 447 [447] | 292 [292] | 5.92 | 30.17 | 19.24 | 17.86 | 166.59 | 5.37 | 5.31 |
| | September | 324 [324] | 174 [174] | 2.88 | 28.69 | 15.23 | 14.43 | 108.16 | 3.61 | 3.48 |
| Frost Free Duration: 163.81 days | October | 159 [159] | 44 [44] | -5.23 | 24.39 | 9.77 | 9.65 | 96.75 | 3.12 | 2.96 |
| | November | 47 [0] | 13 [0] | -10.65 | 19.48 | 3.80 | 3.61 | 43.93 | 1.46 | 1.25 |
| | December | 5 [0] | 0 [0] | -17.47 | 12.70 | -2.20 | -2.03 | 29.79 | 0.96 | 0.79 |
| | Totals, Averages or Extremes | 2153 [1917] | 1200 [1139] | -22.37 | 33.18 | 7.94 | 7.44 | 1,247.49 | 40.94 | 39.12 |

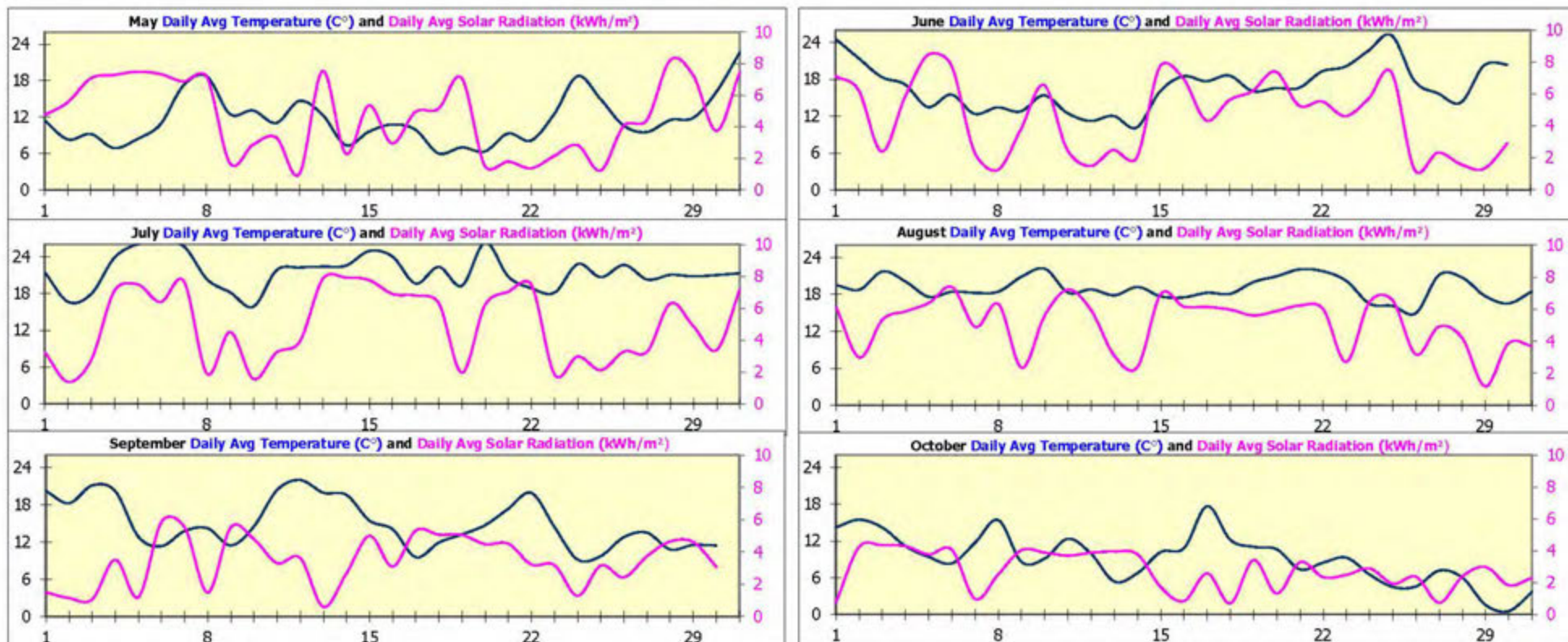
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|-------------|-----------------------|-------------|
| Station ID: | BR4 (O) | Easting: | 371345.132 |
| Location: | Northfield | Northing: | 4924918.529 |
| County: | Lunenburg | Height (m): | 45.74 |
| Contact: | Wayne Broom | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/3/2011 | | |



2013 Temperature and Solar Radiation Summary for Station BR4

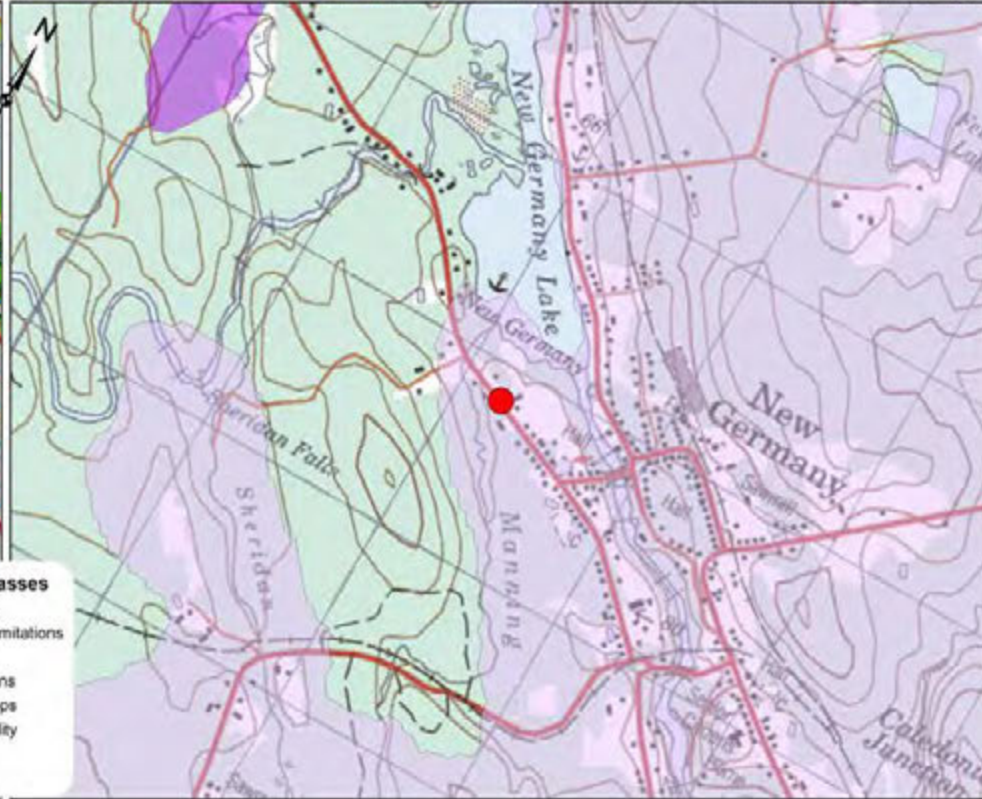
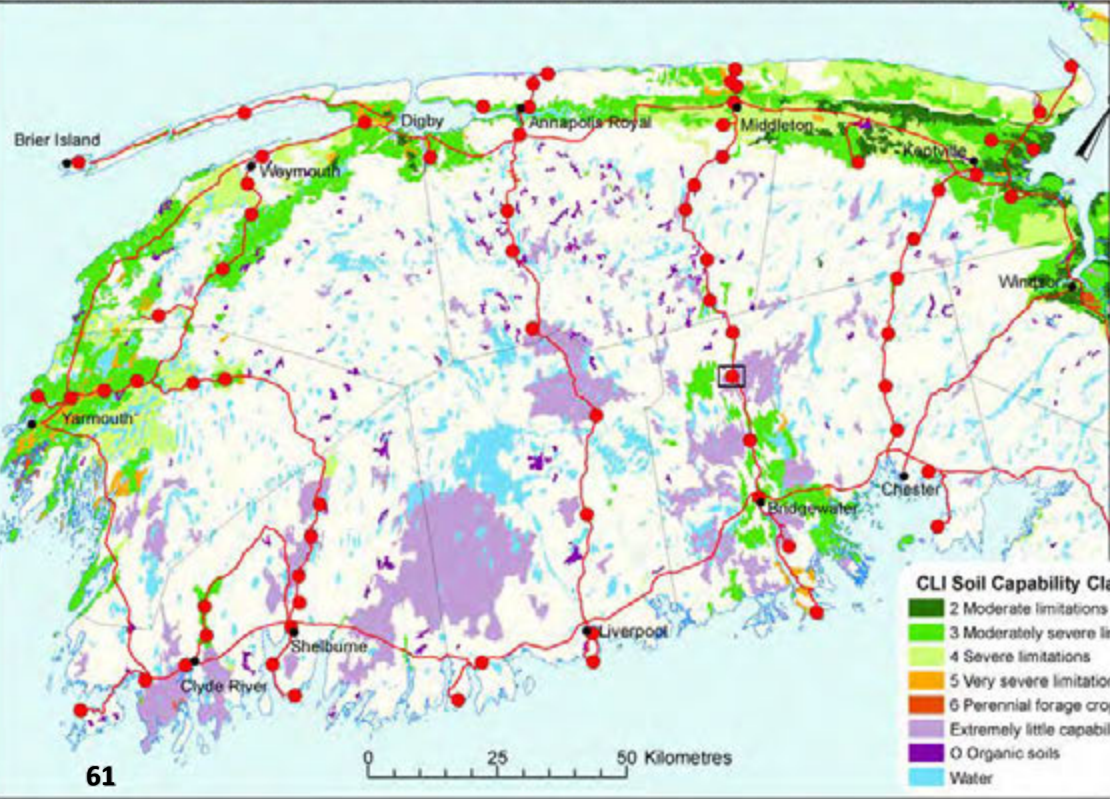


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 5 [0] | 0 [0] | -24.32 | 14.07 | -5.21 | -4.01 | 42.87 | 1.38 | 1.38 |
| Station Deployment: | February | 0 [0] | 0 [0] | -24.11 | 9.16 | -3.35 | -2.85 | 56.50 | 2.02 | 2.09 |
| May 03, 2011 | March | 3 [0] | 0 [0] | -11.22 | 13.67 | 0.82 | 0.94 | 92.51 | 2.98 | 3.08 |
| | April | 51 [0] | 8 [0] | -5.95 | 23.50 | 5.37 | 5.17 | 125.34 | 4.18 | 4.23 |
| Frost Free Start: | May | 212 [95] | 81 [41] | -0.68 | 31.97 | 11.53 | 10.87 | 141.51 | 4.56 | 4.84 |
| May 19, 2013 02:05 | June | 363 [363] | 213 [213] | 6.13 | 33.94 | 16.87 | 15.57 | 134.45 | 4.48 | 4.78 |
| | July | 519 [519] | 364 [364] | 10.00 | 33.60 | 21.48 | 20.09 | 150.03 | 4.84 | 4.93 |
| Frost Free End: | August | 447 [447] | 292 [292] | 6.59 | 30.37 | 18.99 | 17.86 | 155.19 | 5.01 | 5.31 |
| October 29, 2013 07:50 | September | 314 [314] | 165 [165] | 2.98 | 28.69 | 14.99 | 14.43 | 102.28 | 3.41 | 3.48 |
| | October | 149 [149] | 39 [39] | -4.93 | 24.68 | 9.18 | 9.65 | 83.07 | 2.68 | 2.96 |
| Frost Free Duration: | November | 41 [0] | 11 [0] | -10.83 | 19.51 | 3.36 | 3.61 | 36.74 | 1.22 | 1.25 |
| 163.24 days | December | 4 [0] | 0 [0] | -19.01 | 12.85 | -2.65 | -2.03 | 23.38 | 0.75 | 0.79 |
| | Totals, Averages or Extremes | 2106 [1867] | 1173 [1114] | -24.32 | 33.94 | 7.62 | 7.44 | 1,143.87 | 37.52 | 39.12 |

South West NS Temperature and Solar Radiation Study

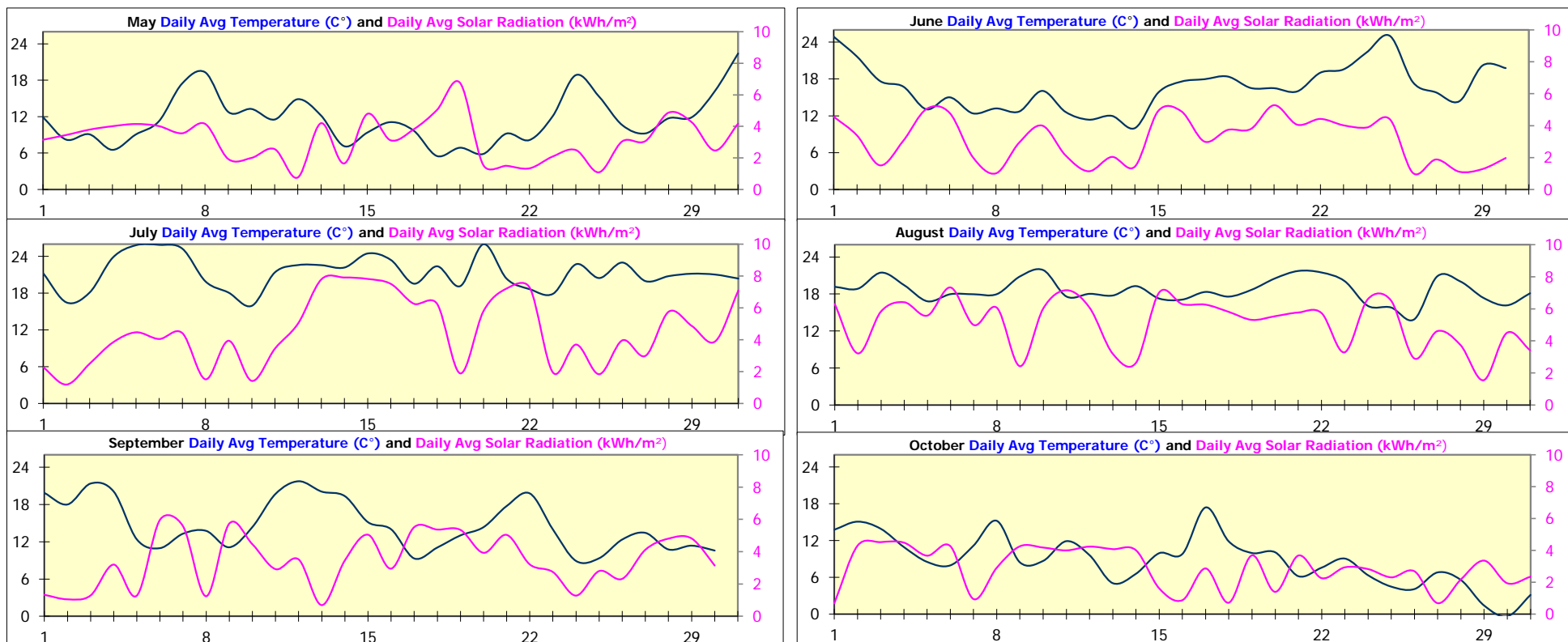
Station Description

Station ID: BR5 (O)
 Location: New Germany Easting: 362228.515
 County: Lunenburg Northing: 4933626.788
 Contact: Bill Woodworth Height (m): 80.27
 Deployment: 6/8/2011 [UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station BR5



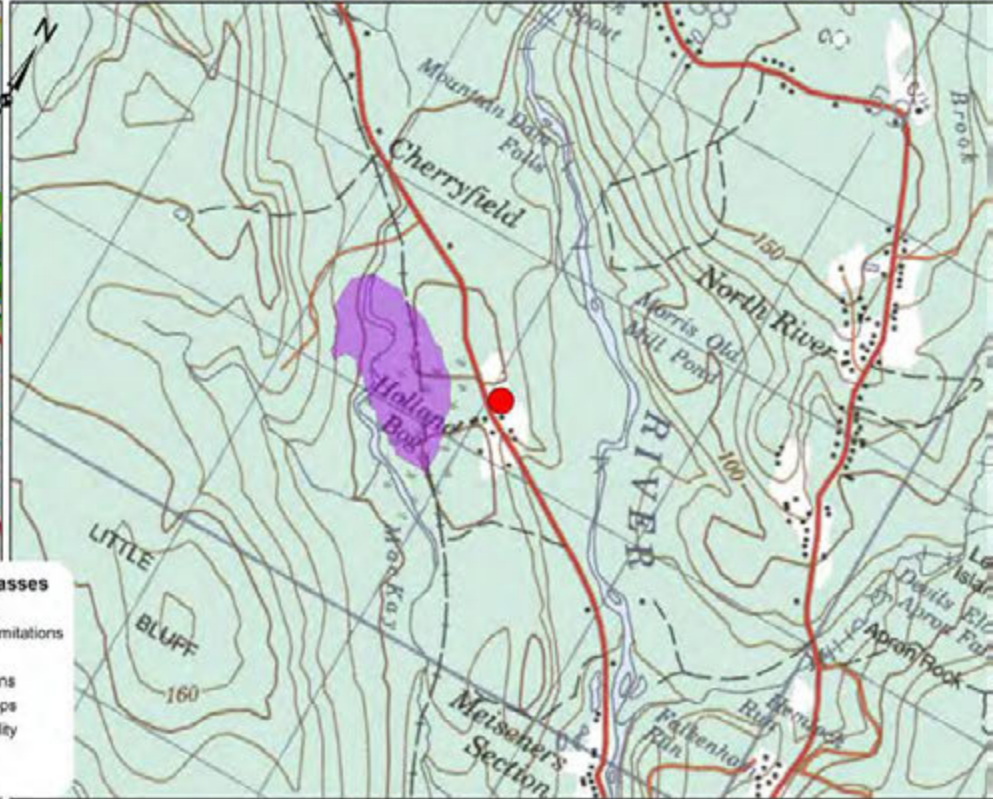
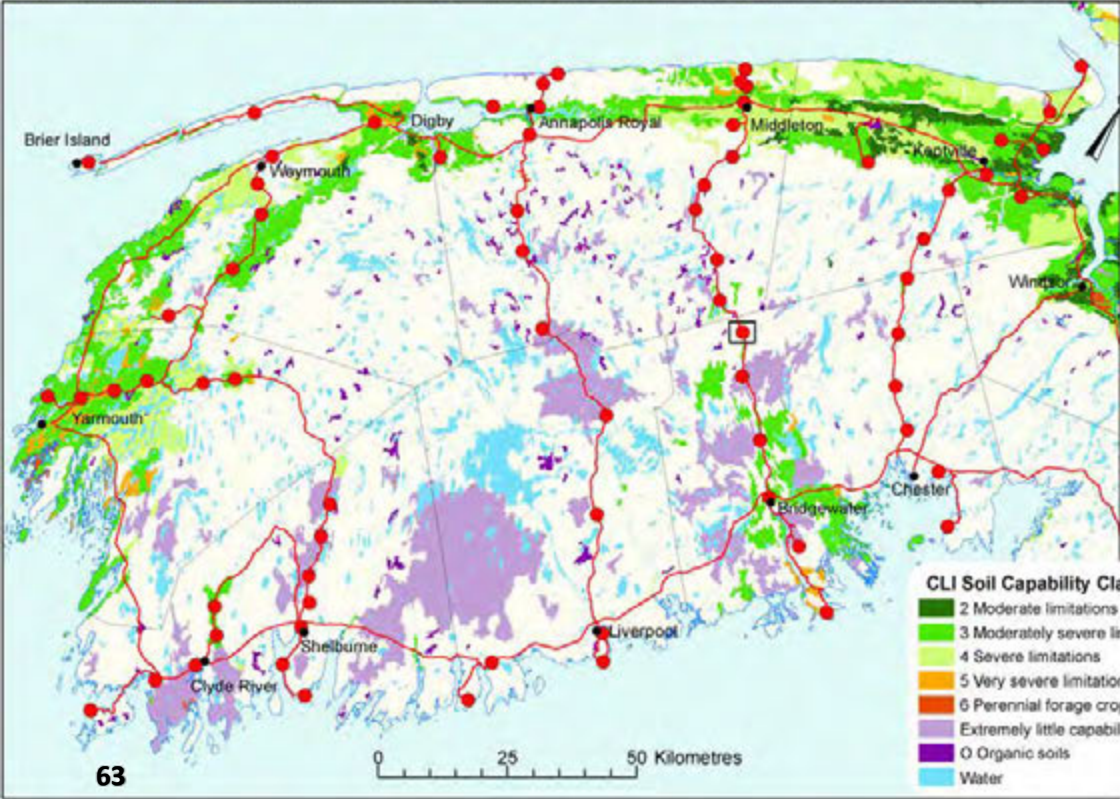
| | | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|----------------------|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: | June 08, 2011 | January | 7 [0] | 0 [0] | -26.19 | 14.60 | -5.55 | -4.01 | 48.09 | 1.55 | 1.38 |
| | | February | 0 [0] | 0 [0] | -24.99 | 8.42 | -3.59 | -2.85 | 56.76 | 2.03 | 2.09 |
| | | March | 3 [0] | 0 [0] | -12.12 | 15.56 | 0.70 | 0.94 | 108.18 | 3.49 | 3.08 |
| | | April | 51 [0] | 8 [0] | -7.03 | 22.61 | 5.33 | 5.17 | 144.30 | 4.81 | 4.23 |
| Frost Free Start: | May 20, 2013 03:05 | May | 209 [90] | 81 [39] | -1.96 | 31.41 | 11.57 | 10.87 | 141.24 | 4.56 | 4.84 |
| | | June | 355 [355] | 205 [205] | 3.80 | 34.62 | 16.72 | 15.57 | 132.49 | 4.42 | 4.78 |
| | | July | 503 [503] | 348 [348] | 8.12 | 33.47 | 21.30 | 20.09 | 139.56 | 4.50 | 4.93 |
| Frost Free End: | October 13, 2013 06:35 | August | 422 [422] | 267 [267] | 3.70 | 30.12 | 18.59 | 17.86 | 316.22 | 5.20 | 5.31 |
| | | September | 293 [293] | 146 [146] | 0.55 | 27.09 | 14.71 | 14.43 | 104.17 | 3.47 | 3.48 |
| | | October | 131 [76] | 30 [19] | -6.83 | 24.17 | 8.72 | 9.65 | 88.95 | 2.87 | 2.96 |
| Frost Free Duration: | 146.15 days | November | 37 [0] | 11 [0] | -15.51 | 19.63 | 2.76 | 3.61 | 51.00 | 1.70 | 1.25 |
| | | December | 4 [0] | 0 [0] | -20.93 | 12.53 | -3.15 | -2.03 | 34.96 | 1.13 | 0.79 |
| | | Totals, Averages or Extremes | 2015 [1739] | 1096 [1024] | -26.19 | 34.62 | 7.34 | 7.44 | 1,365.92 | 39.72 | 39.12 |

South West NS Temperature and Solar Radiation Study

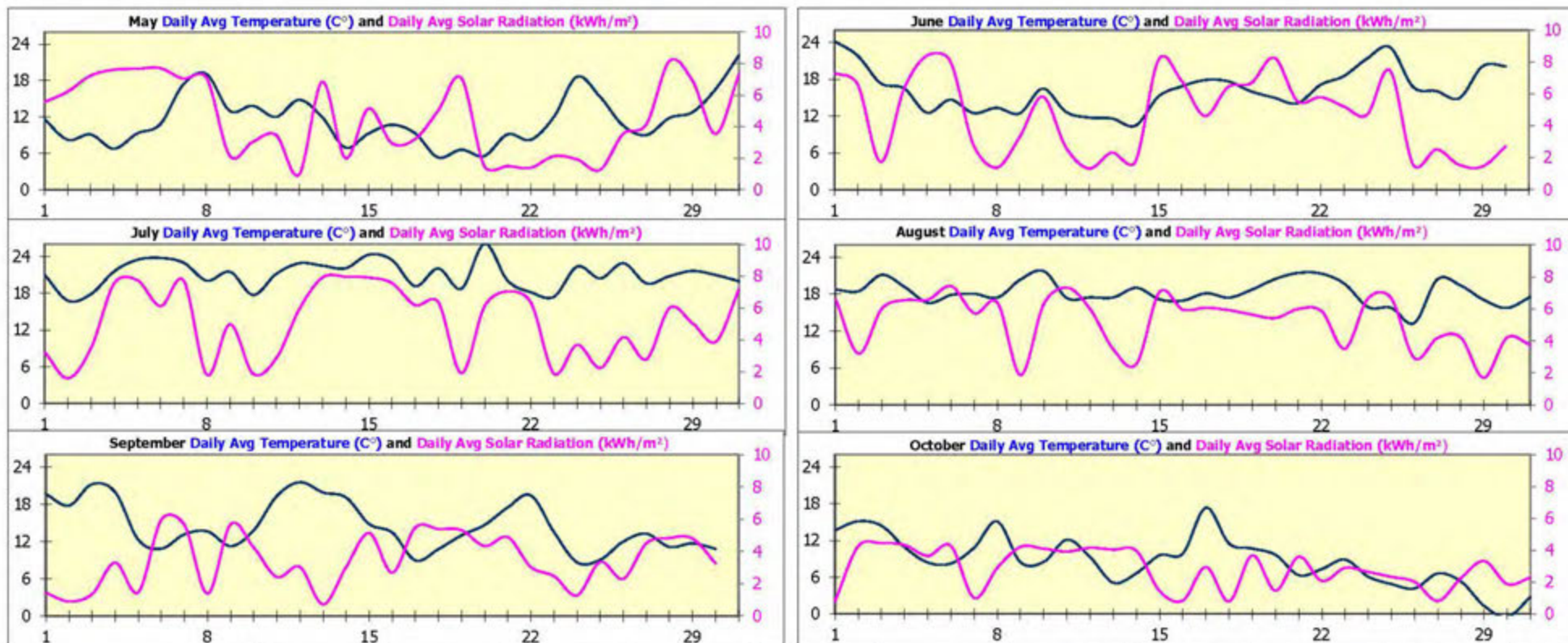
Station Description

Station ID: BR6 (O)
 Location: Cherryfield
 County: Lunenburg
 Contact: Kevin Munro
 Deployment: 5/5/2011

Easting: 358065.05
 Northing: 4941284.391
 Height (m): 110.64
 [UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station BR6

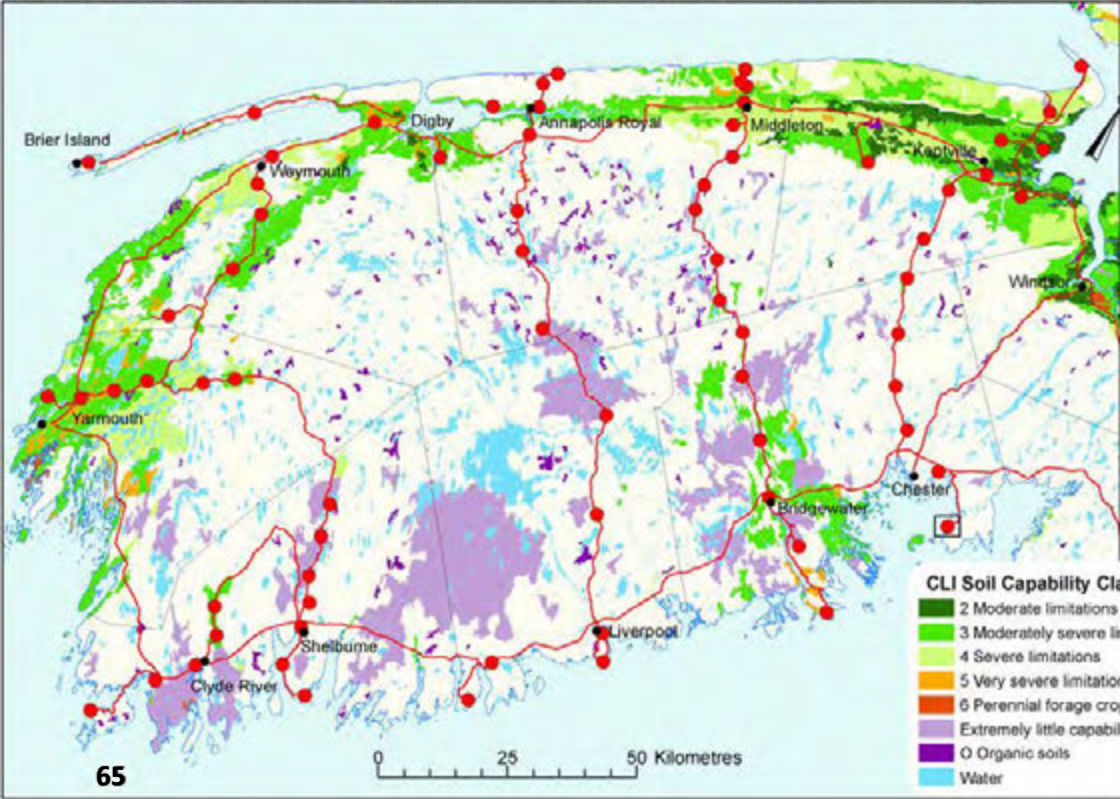


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 05, 2011 | January | 7 [0] | 0 [0] | -26.08 | 15.56 | -5.99 | -4.01 | 44.30 | 1.43 | 1.38 |
| | February | 0 [0] | 0 [0] | -25.21 | 9.39 | -3.72 | -2.85 | 61.64 | 2.20 | 2.09 |
| | March | 2 [0] | 0 [0] | -12.27 | 14.91 | 0.44 | 0.94 | 97.42 | 3.14 | 3.08 |
| | April | 49 [0] | 7 [0] | -6.67 | 22.46 | 5.19 | 5.17 | 132.59 | 4.42 | 4.23 |
| Frost Free Start: May 29, 2013 06:20 | May | 216 [33] | 89 [23] | -2.02 | 37.56 | 11.54 | 10.87 | 142.46 | 4.55 | 4.84 |
| | June | 376 [376] | 226 [226] | 0.52 | 39.26 | 16.31 | 15.57 | 144.02 | 4.60 | 4.78 |
| Frost Free End: October 13, 2013 06:30 | July | 500 [500] | 345 [345] | 8.22 | 32.72 | 21.07 | 20.09 | 159.55 | 5.15 | 4.93 |
| | August | 414 [414] | 259 [259] | 4.09 | 29.61 | 18.30 | 17.86 | 163.83 | 5.29 | 5.31 |
| | September | 291 [291] | 144 [144] | 0.33 | 26.72 | 14.55 | 14.43 | 105.14 | 3.50 | 3.48 |
| Frost Free Duration: 137.01 days | October | 130 [76] | 31 [20] | -6.48 | 24.22 | 8.67 | 9.65 | 88.40 | 2.85 | 2.96 |
| | November | 35 [0] | 8 [0] | -11.18 | 19.53 | 2.89 | 3.61 | 37.87 | 1.26 | 1.25 |
| | December | 3 [0] | 0 [0] | -20.21 | 12.17 | -3.33 | -2.03 | 27.54 | 0.89 | 0.79 |
| | Totals, Averages or Extremes | 2023 [1690] | 1109 [1017] | -26.08 | 39.26 | 7.16 | 7.44 | 1,204.76 | 39.28 | 39.12 |

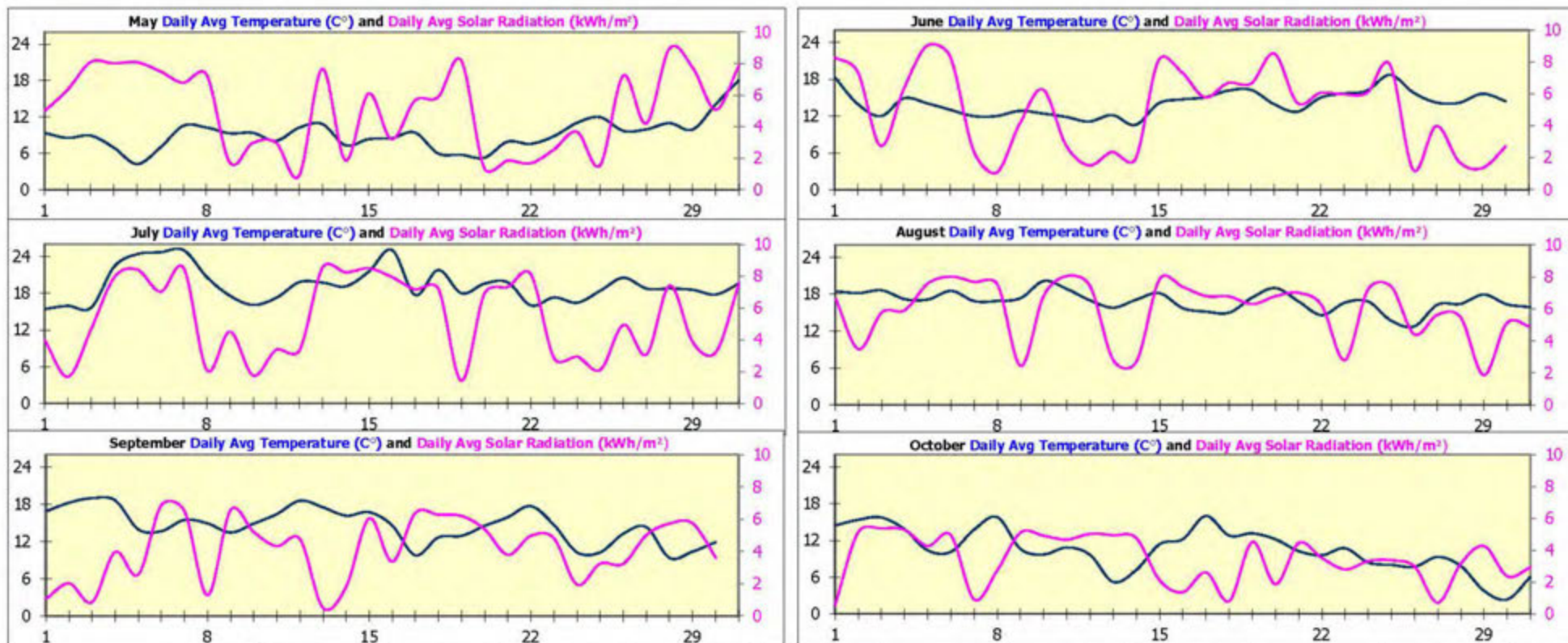
South West NS Temperature and Solar Radiation Study

Station Description

Station ID: CH1 (O)
Location: Blanford Easting: 411154.09
County: Lunenburg Northing: 4928668.93
Contact: Jeff Hogue Height (m): 6.74
Deployment: 5/17/2011 [UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station CH1

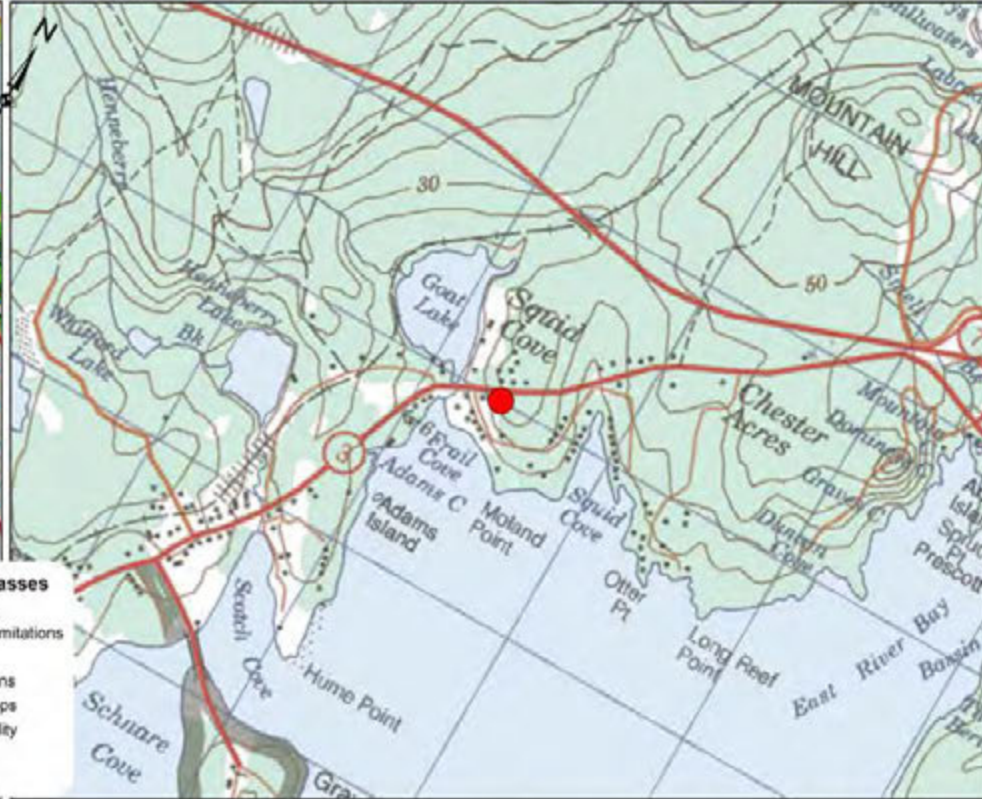
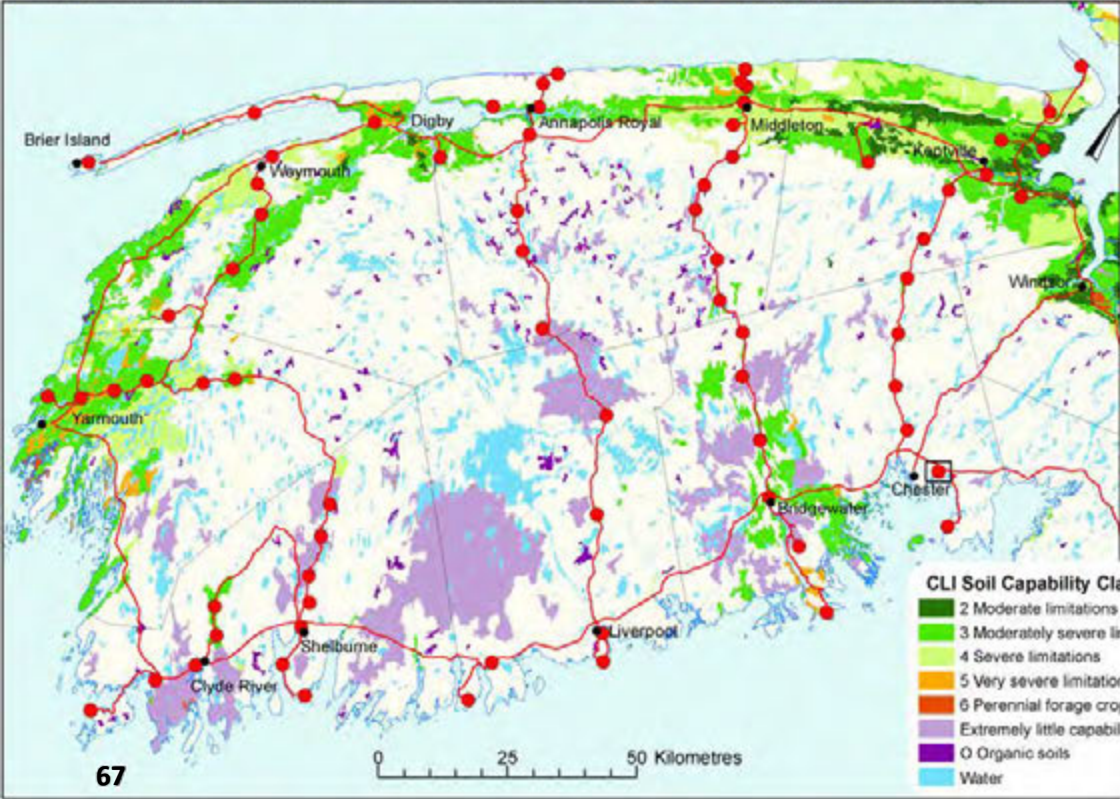


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 17, 2011 | January | 4 [0] | 0 [0] | -16.28 | 9.93 | -3.42 | -4.01 | 54.90 | 1.77 | 1.38 |
| | February | 0 [0] | 0 [0] | -22.22 | 7.09 | -2.36 | -2.85 | 66.22 | 2.37 | 2.09 |
| | March | 2 [0] | 0 [0] | -10.72 | 10.03 | 1.18 | 0.94 | 102.33 | 3.30 | 3.08 |
| | April | 30 [0] | 0 [0] | -3.72 | 18.20 | 4.56 | 5.17 | 134.86 | 4.50 | 4.23 |
| Frost Free Start: May 20, 2013 03:50 | May | 144 [69] | 29 [21] | -2.89 | 26.26 | 9.16 | 10.87 | 149.82 | 4.83 | 4.84 |
| | June | 279 [279] | 129 [129] | 4.58 | 25.26 | 14.14 | 15.57 | 142.58 | 4.75 | 4.78 |
| | July | 448 [448] | 293 [293] | 7.57 | 32.28 | 19.33 | 20.09 | 157.80 | 5.09 | 4.93 |
| Frost Free End: October 13, 2013 04:45 | August | 359 [359] | 204 [204] | 3.96 | 26.18 | 16.86 | 17.86 | 173.46 | 5.60 | 5.31 |
| | September | 290 [290] | 142 [142] | 0.99 | 25.79 | 14.58 | 14.43 | 117.79 | 3.93 | 3.48 |
| | October | 160 [80] | 43 [24] | -5.48 | 21.87 | 10.47 | 9.65 | 100.35 | 3.24 | 2.96 |
| Frost Free Duration: 146.04 days | November | 42 [0] | 8 [0] | -9.85 | 15.72 | 4.48 | 3.61 | 45.73 | 1.52 | 1.25 |
| | December | 4 [0] | 0 [0] | -16.74 | 9.93 | -1.34 | -2.03 | 32.47 | 1.05 | 0.79 |
| | Totals, Averages or Extremes | 1762 [1525] | 848 [813] | -22.22 | 32.28 | 7.30 | 7.44 | 1,278.31 | 41.94 | 39.12 |

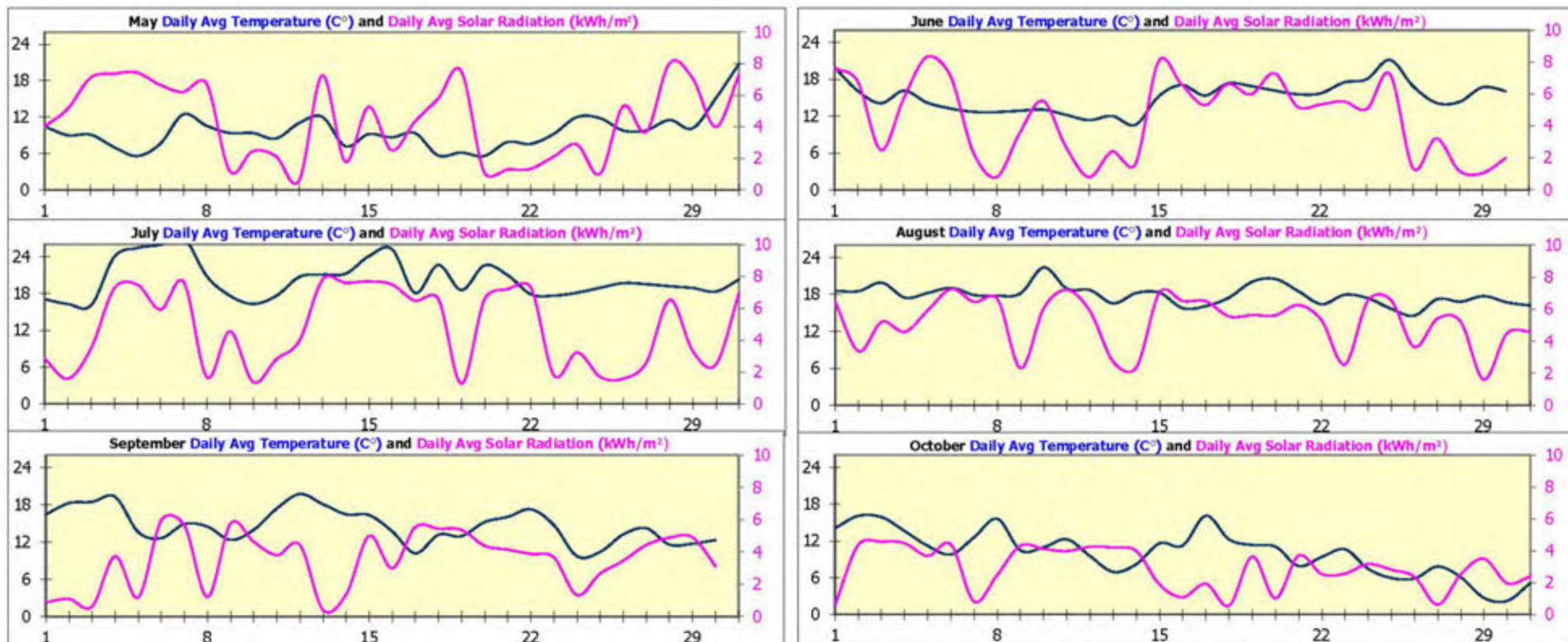
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|-------------------|-----------------------|------------|
| Station ID: | CH2 (O) | Easting: | 404386.709 |
| Location: | East Chester | Northing: | 4936986.53 |
| County: | Lunenburg | Height (m): | 28.44 |
| Contact: | Christopher Field | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/17/2011 | | |



2013 Temperature and Solar Radiation Summary for Station CH2

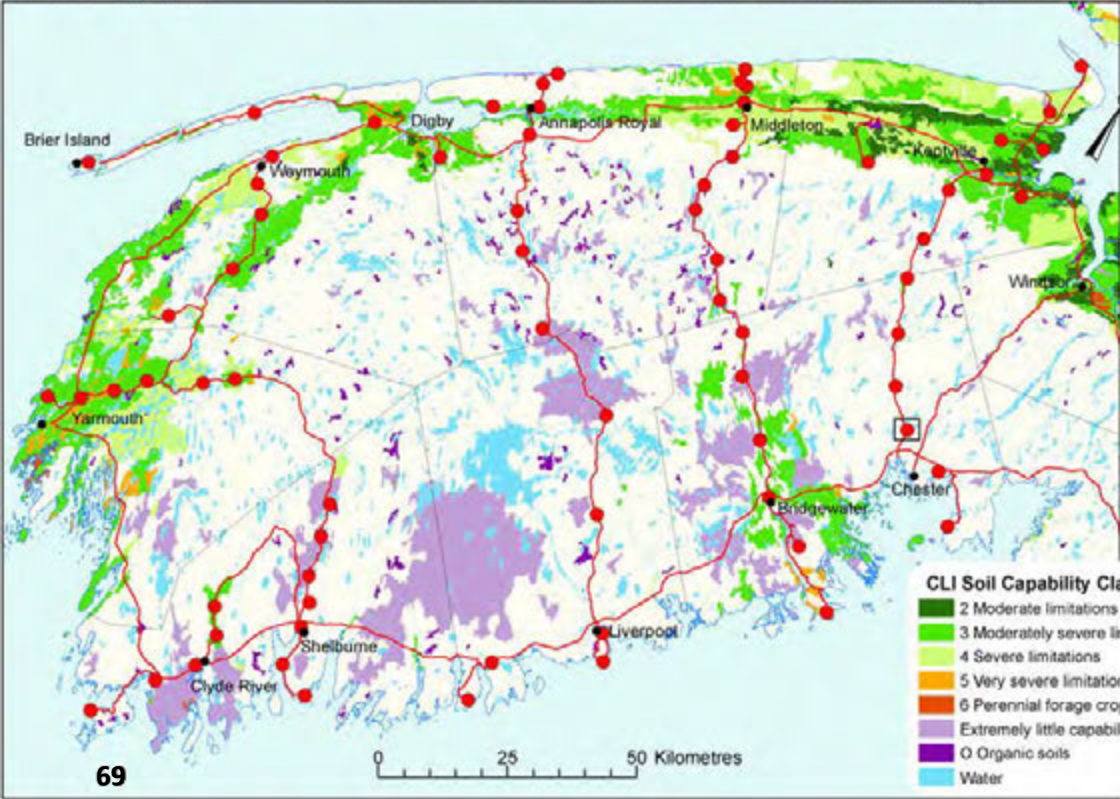


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 17, 2011 | January | 3 [0] | 0 [0] | -18.74 | 11.03 | -4.73 | -4.01 | 50.95 | 1.64 | 1.38 |
| | February | 0 [0] | 0 [0] | -22.99 | 8.52 | -2.90 | -2.85 | 62.14 | 2.22 | 2.09 |
| | March | 1 [0] | 0 [0] | -11.65 | 11.03 | 0.93 | 0.94 | 99.99 | 3.23 | 3.08 |
| | April | 38 [0] | 0 [0] | -5.61 | 18.98 | 4.72 | 5.17 | 128.13 | 4.27 | 4.23 |
| Frost Free Start: May 19, 2013 02:35 | May | 160 [75] | 39 [27] | -0.37 | 30.02 | 9.66 | 10.87 | 142.04 | 4.58 | 4.84 |
| | June | 314 [314] | 164 [164] | 7.17 | 28.74 | 15.19 | 15.57 | 140.57 | 4.69 | 4.78 |
| | July | 489 [489] | 334 [334] | 11.56 | 33.60 | 20.25 | 20.09 | 152.42 | 4.92 | 4.93 |
| Frost Free End: October 30, 2013 02:10 | August | 411 [411] | 256 [256] | 7.07 | 30.12 | 17.86 | 17.86 | 168.04 | 5.42 | 5.31 |
| | September | 300 [300] | 150 [150] | 4.43 | 26.72 | 14.64 | 14.43 | 110.36 | 3.68 | 3.48 |
| | October | 167 [167] | 50 [50] | -3.18 | 24.68 | 10.08 | 9.65 | 92.11 | 2.97 | 2.96 |
| Frost Free Duration: 163.98 days | November | 40 [0] | 11 [0] | -9.85 | 18.39 | 3.75 | 3.61 | 40.99 | 1.37 | 1.25 |
| | December | 4 [0] | 0 [0] | -17.21 | 10.79 | -2.45 | -2.03 | 28.79 | 0.93 | 0.79 |
| | Totals, Averages or Extremes | 1927 [1756] | 1004 [981] | -22.99 | 33.60 | 7.25 | 7.44 | 1,216.53 | 39.91 | 39.12 |

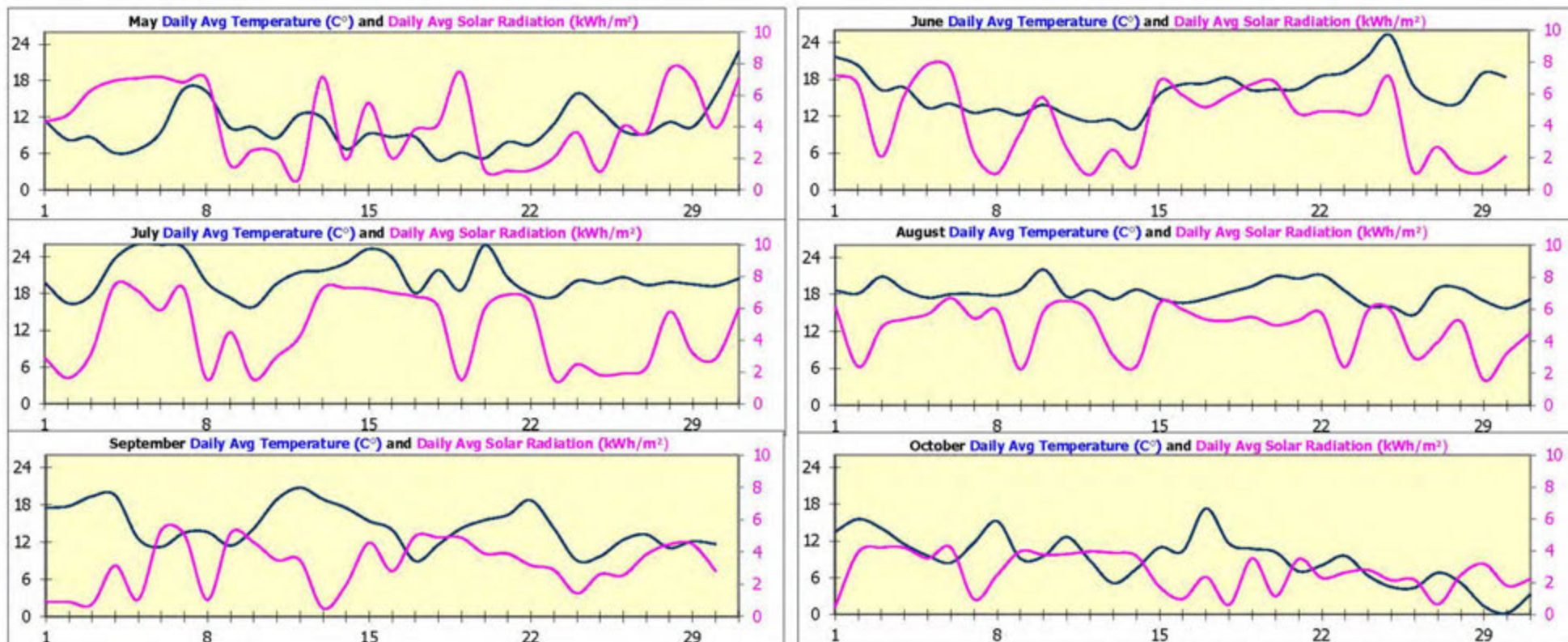
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|----------------------|-----------------------|-------------|
| Station ID: | CH3 (O) | Easting: | 395035.859 |
| Location: | Chester Grant | Northing: | 4940967.608 |
| County: | Lunenburg | Height (m): | 97.66 |
| Contact: | Linda & Bruce Brophy | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/17/2011 | | |



2013 Temperature and Solar Radiation Summary for Station CH3

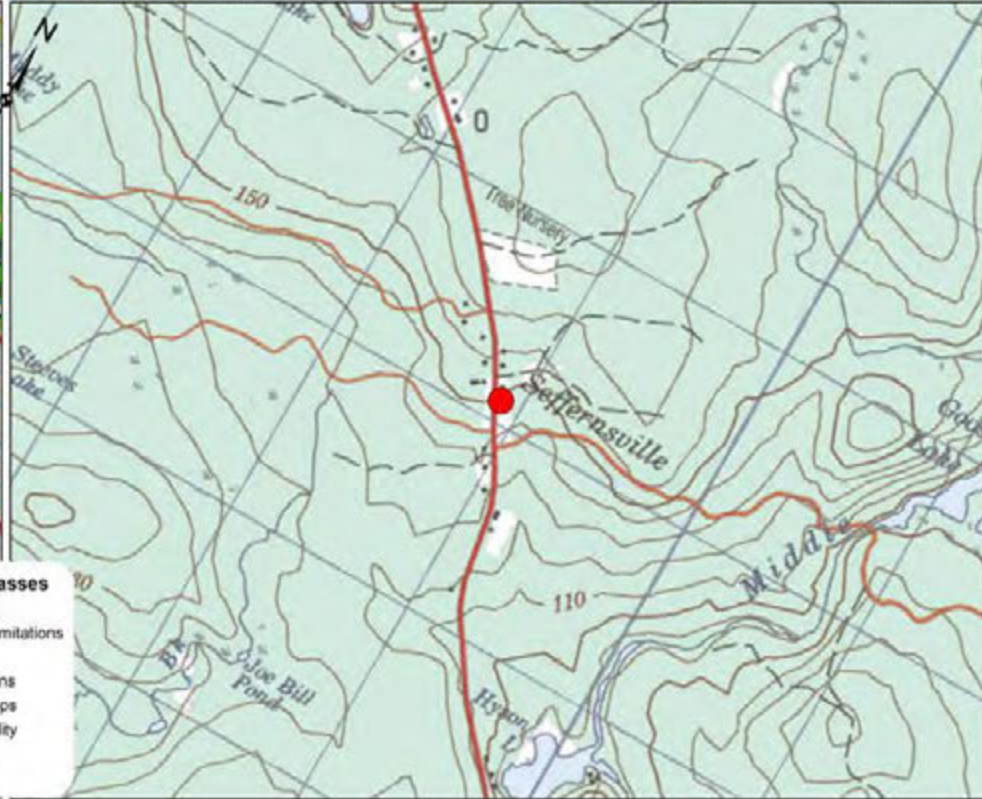
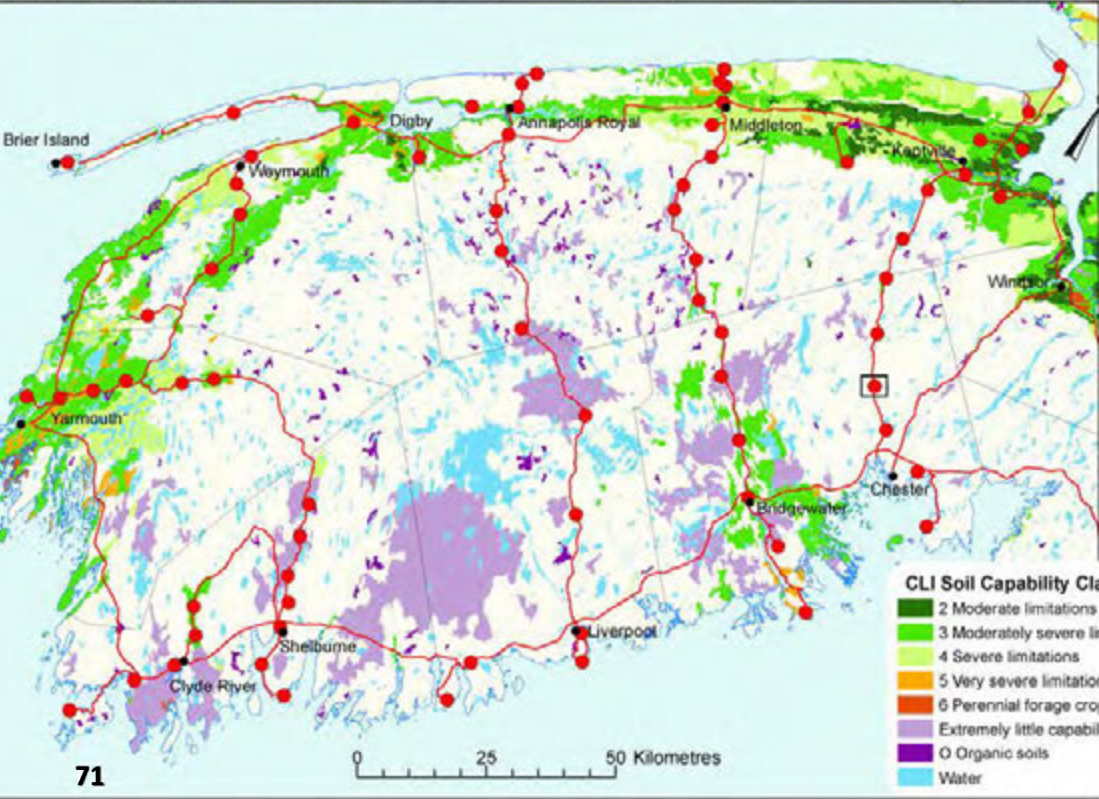


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 5 [0] | 0 [0] | -22.32 | 12.58 | -5.49 | -4.01 | 43.19 | 1.39 | 1.38 |
| Station Deployment: | February | 0 [0] | 0 [0] | -25.27 | 8.04 | -3.60 | -2.85 | 57.03 | 2.04 | 2.09 |
| May 17, 2011 | March | 0 [0] | 0 [0] | -12.38 | 9.53 | 0.20 | 0.94 | 90.16 | 2.91 | 3.08 |
| | April | 40 [0] | 6 [0] | -6.42 | 23.04 | 4.61 | 5.17 | 117.66 | 3.92 | 4.23 |
| Frost Free Start: | May | 177 [82] | 54 [31] | -1.78 | 31.51 | 10.34 | 10.87 | 133.86 | 4.32 | 4.84 |
| May 19, 2013 03:00 | June | 341 [341] | 191 [191] | 5.38 | 33.49 | 16.12 | 15.57 | 130.07 | 4.34 | 4.78 |
| | July | 496 [496] | 341 [341] | 9.85 | 33.78 | 20.69 | 20.09 | 140.32 | 4.53 | 4.93 |
| Frost Free End: | August | 430 [430] | 275 [275] | 6.25 | 29.52 | 18.24 | 17.86 | 149.32 | 4.82 | 5.31 |
| October 29, 2013 06:10 | September | 301 [301] | 152 [152] | 2.45 | 27.31 | 14.50 | 14.43 | 96.20 | 3.21 | 3.48 |
| | October | 143 [143] | 38 [38] | -5.67 | 24.53 | 9.03 | 9.65 | 83.46 | 2.69 | 2.96 |
| Frost Free Duration: | November | 38 [0] | 10 [0] | -11.04 | 18.70 | 3.09 | 3.61 | 35.60 | 1.19 | 1.25 |
| 163.13 days | December | 3 [0] | 0 [0] | -19.19 | 12.03 | -3.27 | -2.03 | 23.47 | 0.76 | 0.79 |
| | Totals, Averages or Extremes | 1974 [1793] | 1067 [1028] | -25.27 | 33.78 | 7.04 | 7.44 | 1,100.34 | 36.10 | 39.12 |

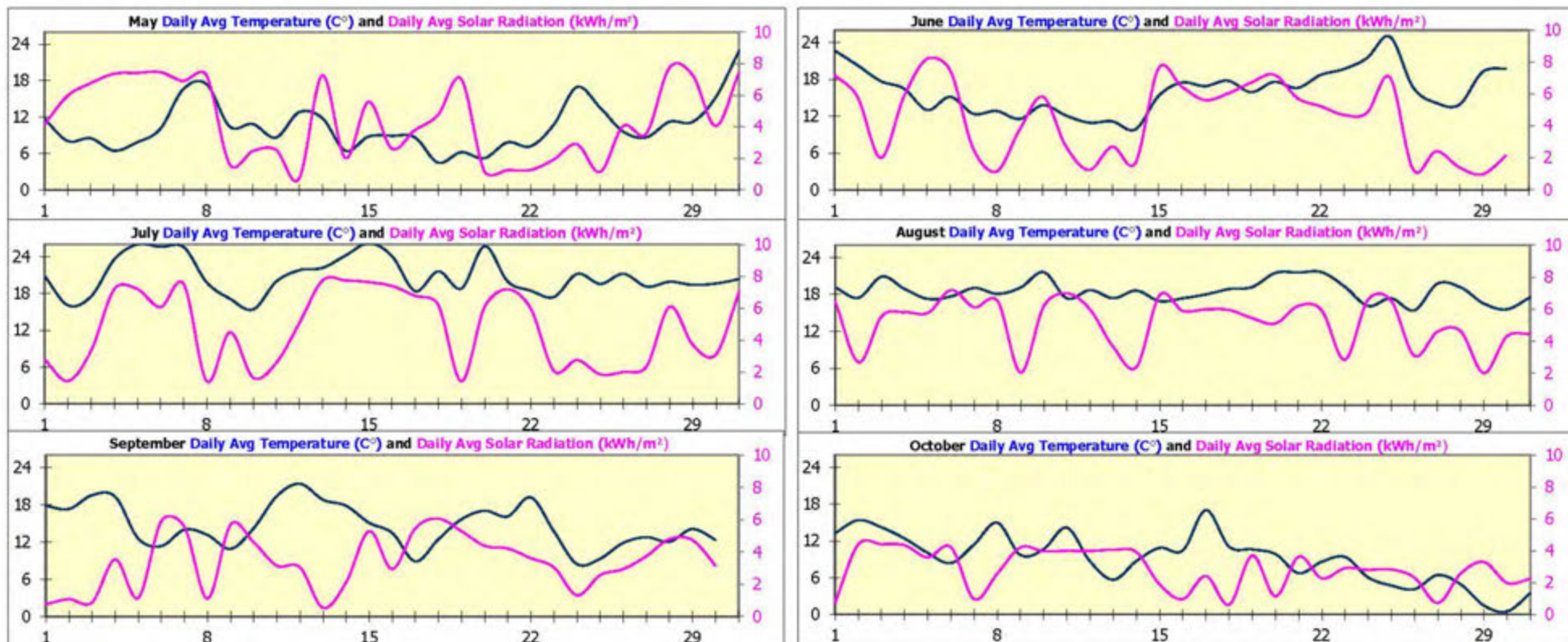
South West NS Temperature and Solar Radiation Study

Station Description

Station ID: CH4 (O)
Location: Seffernsville Easting: 388880.928
County: Lunenburg Northing: 4947122.4
Contact: Rudy & Donald Seffern Height (m): 151.56
Deployment: 5/14/2011 [UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station CH4

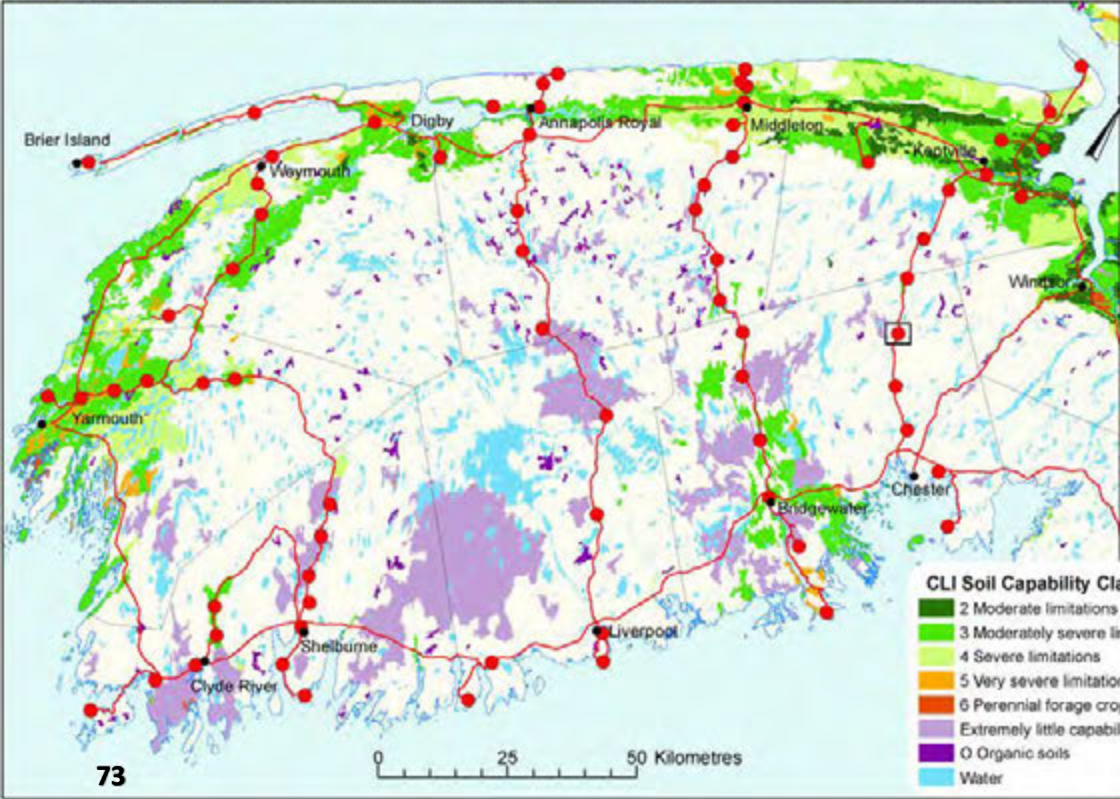


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 14, 2011 | January | 5 [0] | 0 [0] | -19.56 | 12.48 | -5.64 | -4.01 | 45.85 | 1.48 | 1.38 |
| | February | 0 [0] | 0 [0] | -23.67 | 6.79 | -3.89 | -2.85 | 59.00 | 2.11 | 2.09 |
| | March | 1 [0] | 0 [0] | -12.94 | 11.71 | 0.03 | 0.94 | 95.08 | 3.07 | 3.08 |
| | April | 44 [0] | 5 [0] | -7.19 | 22.23 | 4.70 | 5.17 | 123.46 | 4.12 | 4.23 |
| Frost Free Start: May 19, 2013 03:20 | May | 179 [83] | 58 [34] | -1.01 | 30.77 | 10.48 | 10.87 | 138.51 | 4.47 | 4.84 |
| | June | 342 [342] | 192 [192] | 6.81 | 33.00 | 16.20 | 15.57 | 134.76 | 4.49 | 4.78 |
| | July | 497 [497] | 342 [342] | 10.49 | 32.77 | 20.85 | 20.09 | 146.84 | 4.74 | 4.93 |
| Frost Free End: October 29, 2013 07:40 | August | 428 [428] | 273 [273] | 7.49 | 29.77 | 18.48 | 17.86 | 161.10 | 5.20 | 5.31 |
| | September | 298 [298] | 152 [152] | 2.29 | 27.01 | 14.68 | 14.43 | 103.68 | 3.46 | 3.48 |
| | October | 142 [142] | 38 [38] | -4.32 | 23.95 | 9.17 | 9.65 | 88.47 | 2.85 | 2.96 |
| Frost Free Duration: 163.18 days | November | 33 [0] | 8 [0] | -11.15 | 18.46 | 2.77 | 3.61 | 37.34 | 1.25 | 1.25 |
| | December | 3 [0] | 0 [0] | -19.29 | 11.83 | -3.58 | -2.03 | 25.54 | 0.82 | 0.79 |
| | Totals, Averages or Extremes | 1972 [1790] | 1068 [1031] | -23.67 | 33.00 | 7.02 | 7.44 | 1,159.63 | 38.04 | 39.12 |

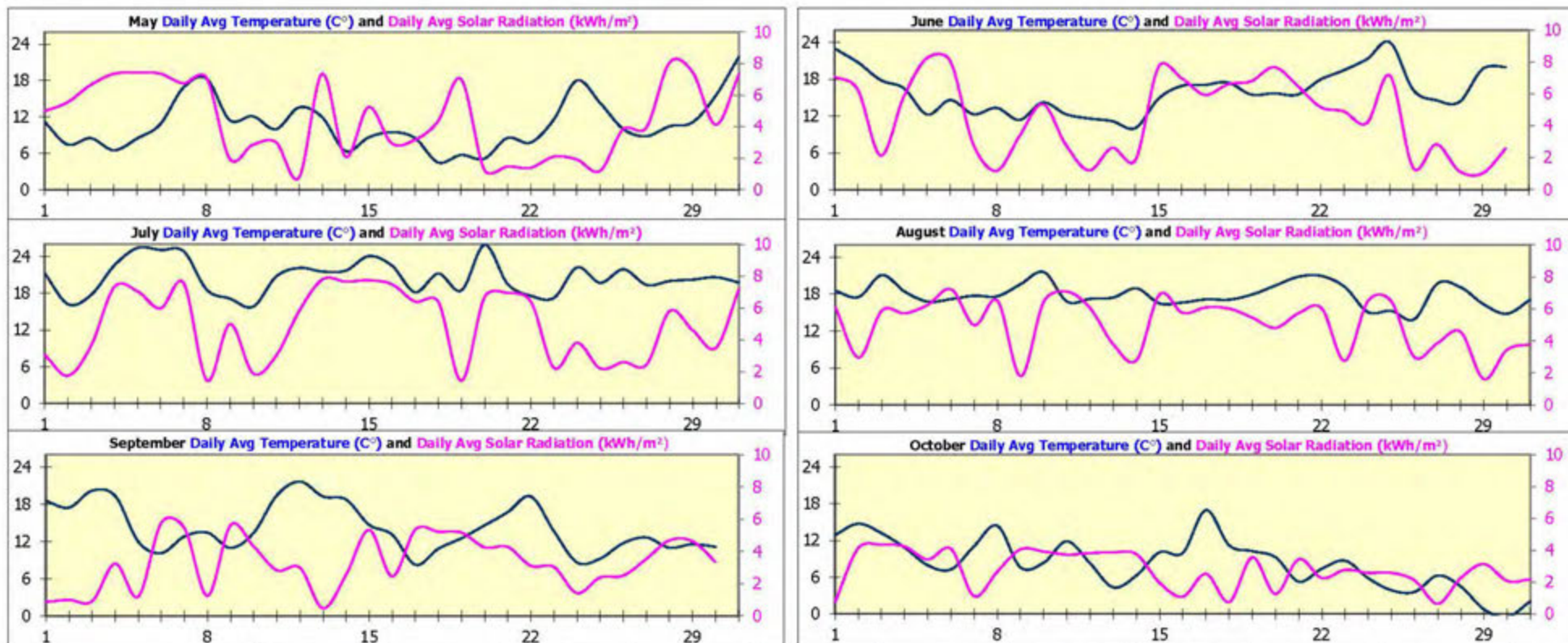
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|--------------|-----------------------|-------------|
| Station ID: | CH5 (O) | Easting: | 384278.051 |
| Location: | New Ross | Northing: | 4956130.631 |
| County: | Lunenburg | Height (m): | 134.14 |
| Contact: | Kelly Munroe | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/14/2011 | | |



2013 Temperature and Solar Radiation Summary for Station CH5



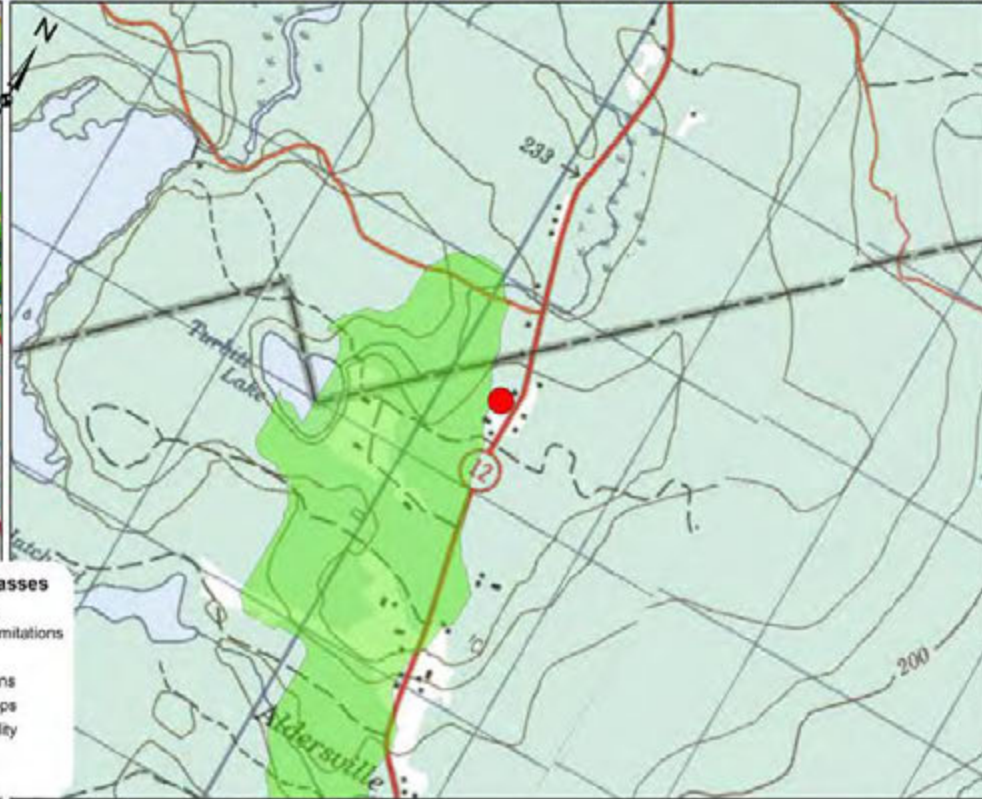
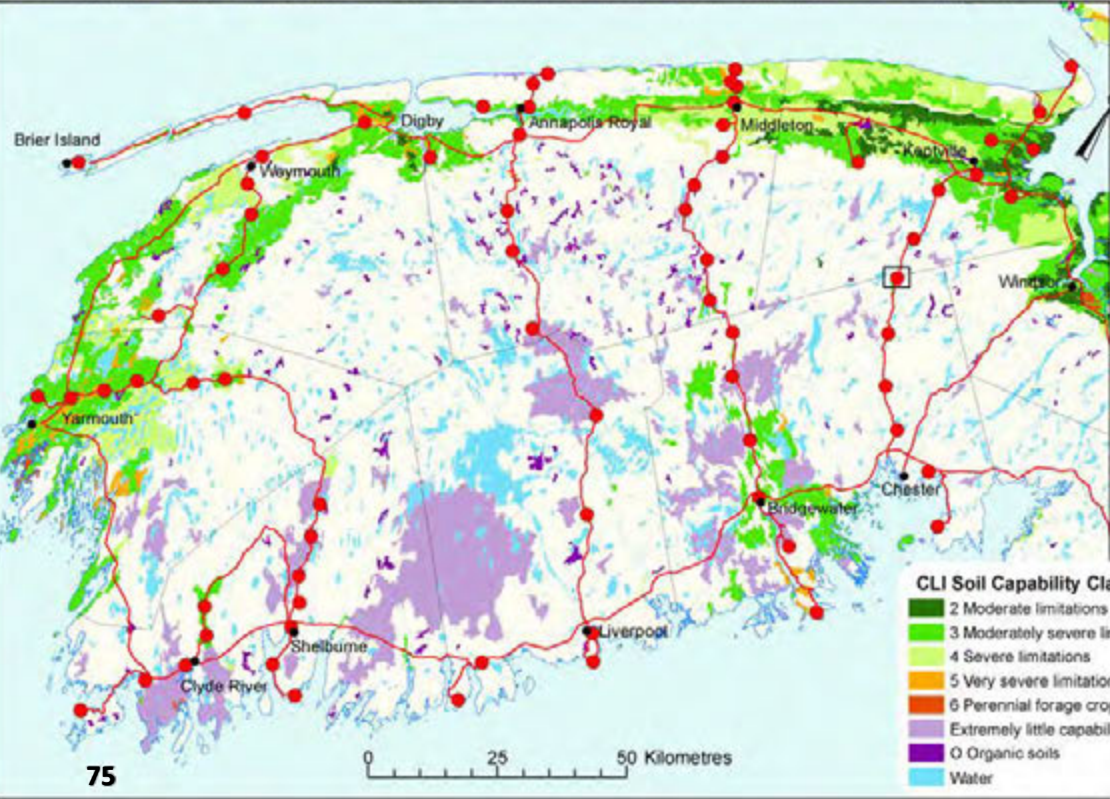
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 14, 2011 | January | 4 [0] | 0 [0] | -25.27 | 13.69 | -6.41 | -4.01 | 45.05 | 1.45 | 1.38 |
| | February | 0 [0] | 0 [0] | -25.61 | 6.91 | -4.26 | -2.85 | 60.05 | 2.15 | 2.09 |
| | March | 1 [0] | 0 [0] | -12.94 | 12.94 | -0.18 | 0.94 | 97.35 | 3.14 | 3.08 |
| | April | 42 [0] | 6 [0] | -6.71 | 22.18 | 4.66 | 5.17 | 126.04 | 4.20 | 4.23 |
| Frost Free Start: May 19, 2013 04:45 | May | 184 [84] | 60 [33] | -2.07 | 30.57 | 10.76 | 10.87 | 143.58 | 4.63 | 4.84 |
| | June | 332 [332] | 182 [182] | 4.45 | 32.66 | 16.07 | 15.57 | 143.21 | 4.77 | 4.78 |
| Frost Free End: October 26, 2013 07:50 | July | 485 [485] | 330 [330] | 8.67 | 32.72 | 20.60 | 20.09 | 158.79 | 5.12 | 4.93 |
| | August | 404 [404] | 249 [249] | 5.18 | 29.54 | 17.85 | 17.86 | 162.80 | 5.25 | 5.31 |
| | September | 290 [290] | 144 [144] | 1.72 | 26.79 | 14.25 | 14.43 | 103.42 | 3.45 | 3.48 |
| Frost Free Duration: 160.13 days | October | 121 [120] | 29 [29] | -6.07 | 23.95 | 8.22 | 9.65 | 88.52 | 2.86 | 2.96 |
| | November | 31 [0] | 7 [0] | -11.25 | 19.01 | 2.55 | 3.61 | 37.15 | 1.24 | 1.25 |
| | December | 3 [0] | 0 [0] | -20.74 | 11.93 | -3.93 | -2.03 | 25.85 | 0.83 | 0.79 |
| | Totals, Averages or Extremes | 1897 [1715] | 1007 [967] | -25.61 | 32.72 | 6.68 | 7.44 | 1,191.81 | 39.10 | 39.12 |

South West NS Temperature and Solar Radiation Study

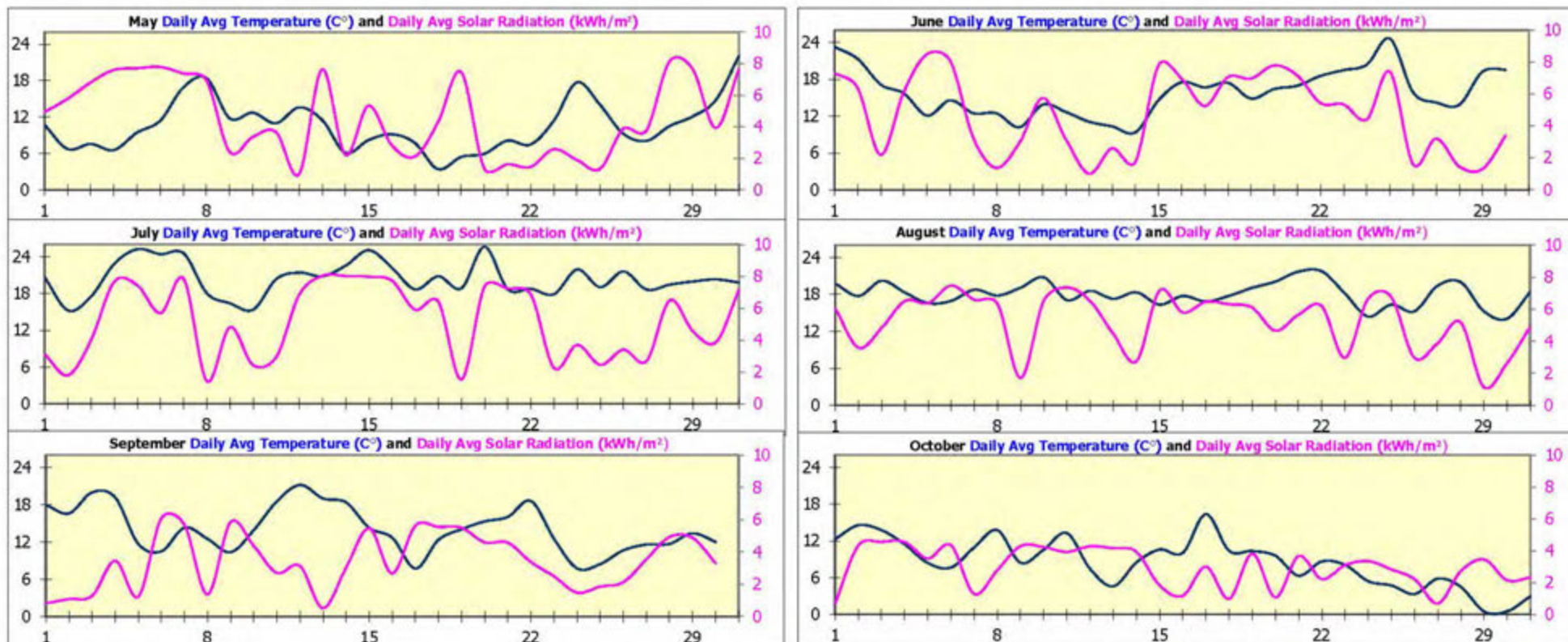
Station Description

Station ID: CH6 (O)
Location: Aldersville
County: Lunenburg
Contact: Jackie Russell
Deployment: 5/14/2011

Easting: 380312.892
Northing: 4966414.13
Height (m): 250.99
[UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station CH6

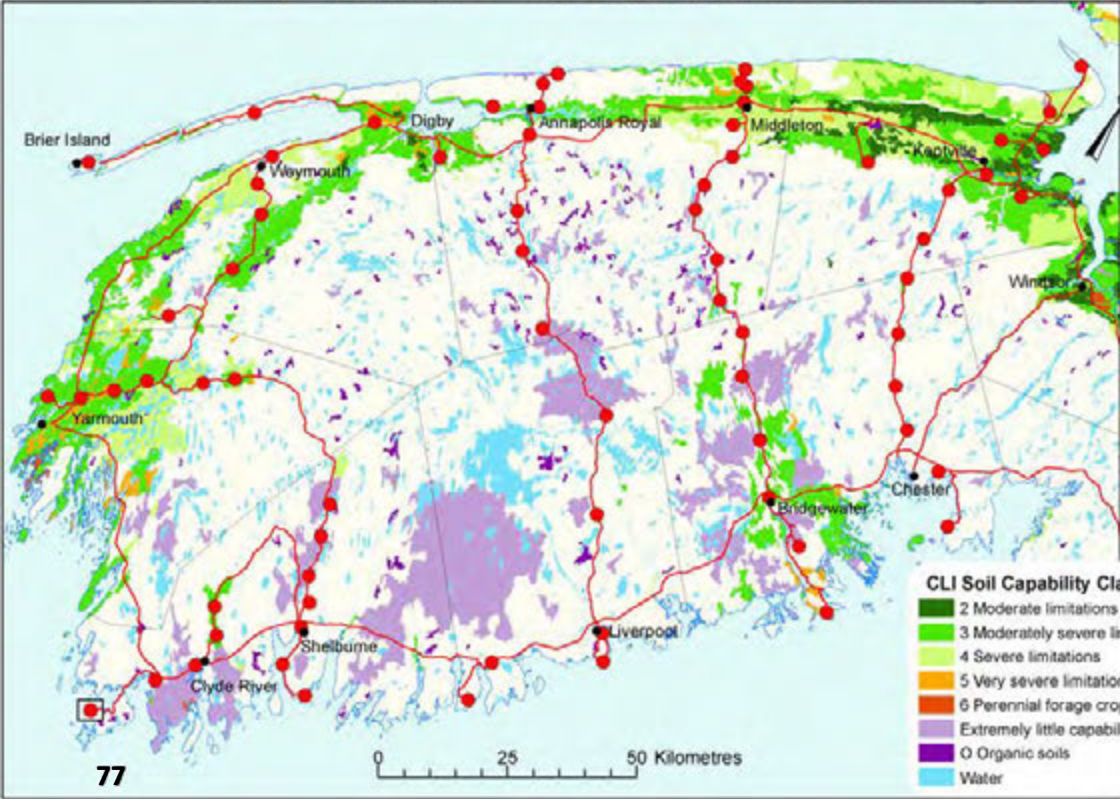


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 14, 2011 | January | 4 [0] | 0 [0] | -20.88 | 13.81 | -6.44 | -4.01 | 45.07 | 1.45 | 1.38 |
| | February | 0 [0] | 0 [0] | -23.73 | 6.46 | -4.77 | -2.85 | 58.85 | 2.10 | 2.09 |
| | March | 1 [0] | 0 [0] | -14.28 | 12.15 | -0.72 | 0.94 | 93.93 | 3.03 | 3.08 |
| | April | 40 [0] | 4 [0] | -7.61 | 21.80 | 4.22 | 5.17 | 126.15 | 4.21 | 4.23 |
| Frost Free Start: May 19, 2013 04:50 | May | 188 [86] | 69 [36] | -2.02 | 30.17 | 10.64 | 10.87 | 141.23 | 4.56 | 4.84 |
| | June | 334 [334] | 185 [185] | 6.08 | 32.38 | 15.90 | 15.57 | 141.91 | 4.73 | 4.78 |
| Frost Free End: October 29, 2013 03:20 | July | 480 [480] | 325 [325] | 10.59 | 31.64 | 20.40 | 20.09 | 158.12 | 5.10 | 4.93 |
| | August | 420 [420] | 265 [265] | 7.70 | 28.84 | 18.06 | 17.86 | 161.05 | 5.20 | 5.31 |
| | September | 284 [284] | 141 [141] | 1.13 | 25.40 | 14.13 | 14.43 | 101.85 | 3.40 | 3.48 |
| Frost Free Duration: 162.94 days | October | 129 [129] | 31 [31] | -4.11 | 22.85 | 8.52 | 9.65 | 90.74 | 2.93 | 2.96 |
| | November | 31 [0] | 6 [0] | -11.33 | 18.48 | 2.11 | 3.61 | 36.26 | 1.21 | 1.25 |
| | December | 2 [0] | 0 [0] | -19.79 | 11.08 | -4.45 | -2.03 | 26.37 | 0.85 | 0.79 |
| | Totals, Averages or Extremes | 1913 [1733] | 1026 [983] | -23.73 | 32.38 | 6.47 | 7.44 | 1,181.53 | 38.75 | 39.12 |

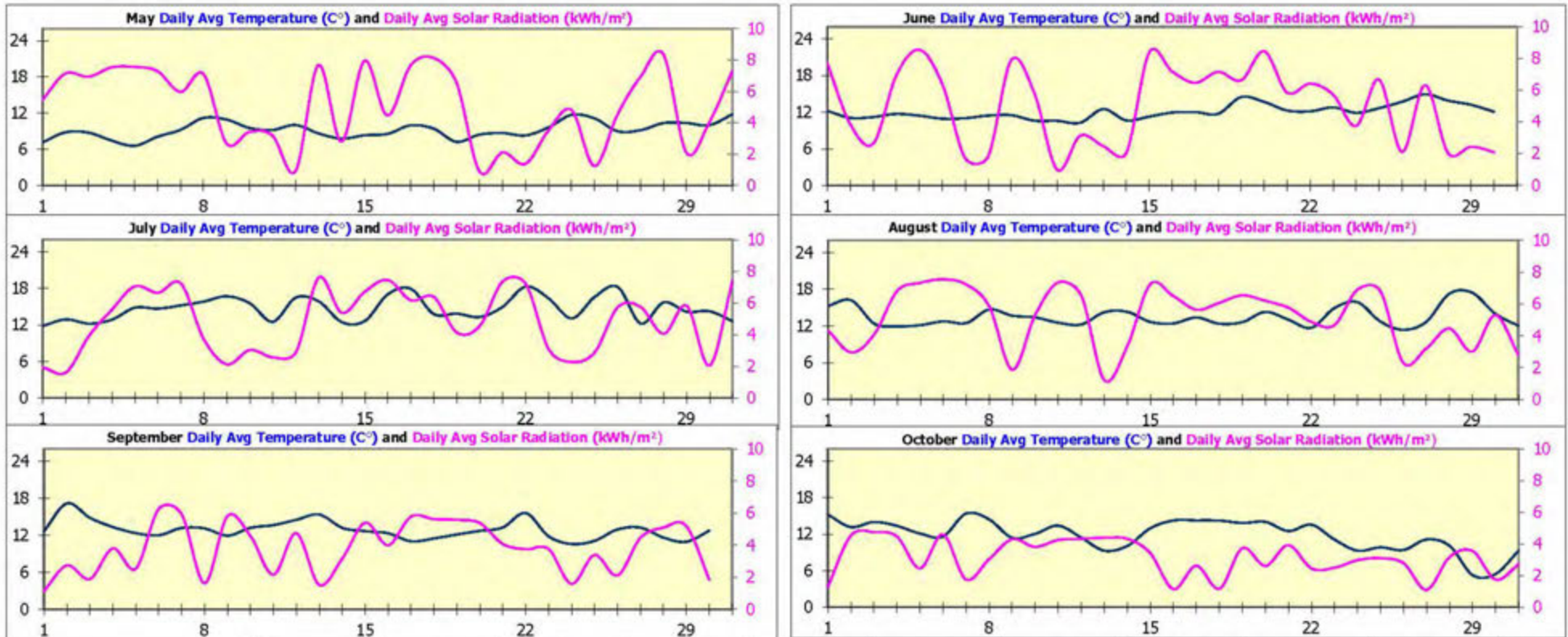
South West NS Temperature and Solar Radiation Study

Station Description

Station ID: CL1 (O)
Location: Clark's Harbour Easting: 285240.453
County: Shelburne Northing: 4814902.876
Contact: Jimmy Newell Height (m): 9.12
Deployment: 5/11/2011 [UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station CL1

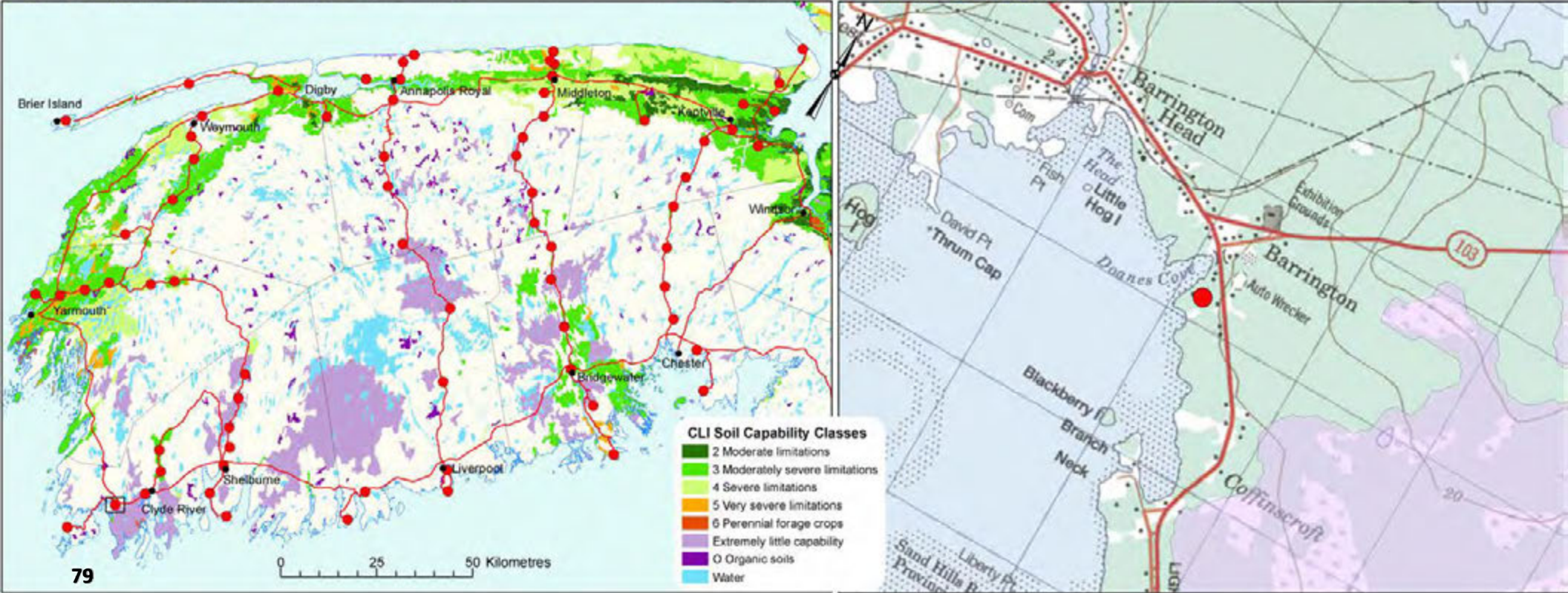


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|--|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 11, 2011 | January | 5 [0] | 0 [0] | -12.94 | 9.68 | -0.73 | -4.01 | 40.58 | 1.31 | 1.38 |
| | February | 0 [0] | 0 [0] | -13.93 | 7.59 | -0.56 | -2.85 | 60.72 | 2.17 | 2.09 |
| | March | 3 [0] | 0 [0] | -7.16 | 9.98 | 1.97 | 0.94 | 98.73 | 3.19 | 3.08 |
| | April | 35 [35] | 0 [0] | -0.82 | 15.41 | 5.18 | 5.17 | 129.94 | 4.33 | 4.23 |
| Frost Free Start: April 07, 2013 07:30 | May | 139 [139] | 9 [9] | 1.02 | 17.49 | 9.20 | 10.87 | 153.56 | 4.95 | 4.84 |
| | June | 226 [226] | 76 [76] | 8.92 | 21.06 | 12.07 | 15.57 | 145.88 | 4.86 | 4.78 |
| | July | 309 [309] | 154 [154] | 9.14 | 27.90 | 14.66 | 20.09 | 146.36 | 4.72 | 4.93 |
| Frost Free End: November 24, 2013 15:35 | August | 278 [278] | 123 [123] | 9.44 | 23.18 | 13.53 | 17.86 | 156.06 | 5.03 | 5.31 |
| | September | 246 [246] | 96 [96] | 6.00 | 21.01 | 12.91 | 14.43 | 112.14 | 3.74 | 3.48 |
| Frost Free Duration: 231.34 days | October | 211 [211] | 73 [73] | 0.55 | 19.84 | 11.87 | 9.65 | 94.65 | 3.05 | 2.96 |
| | November | 61 [53] | 8 [8] | -5.45 | 14.82 | 5.85 | 3.61 | 40.85 | 1.36 | 1.25 |
| | December | 7 [0] | 0 [0] | -12.27 | 9.14 | 1.03 | -2.03 | 26.38 | 0.85 | 0.79 |
| | Totals, Averages or Extremes | 1520 [1497] | 539 [539] | -13.93 | 27.90 | 7.25 | 7.44 | 1,205.85 | 39.57 | 39.12 |

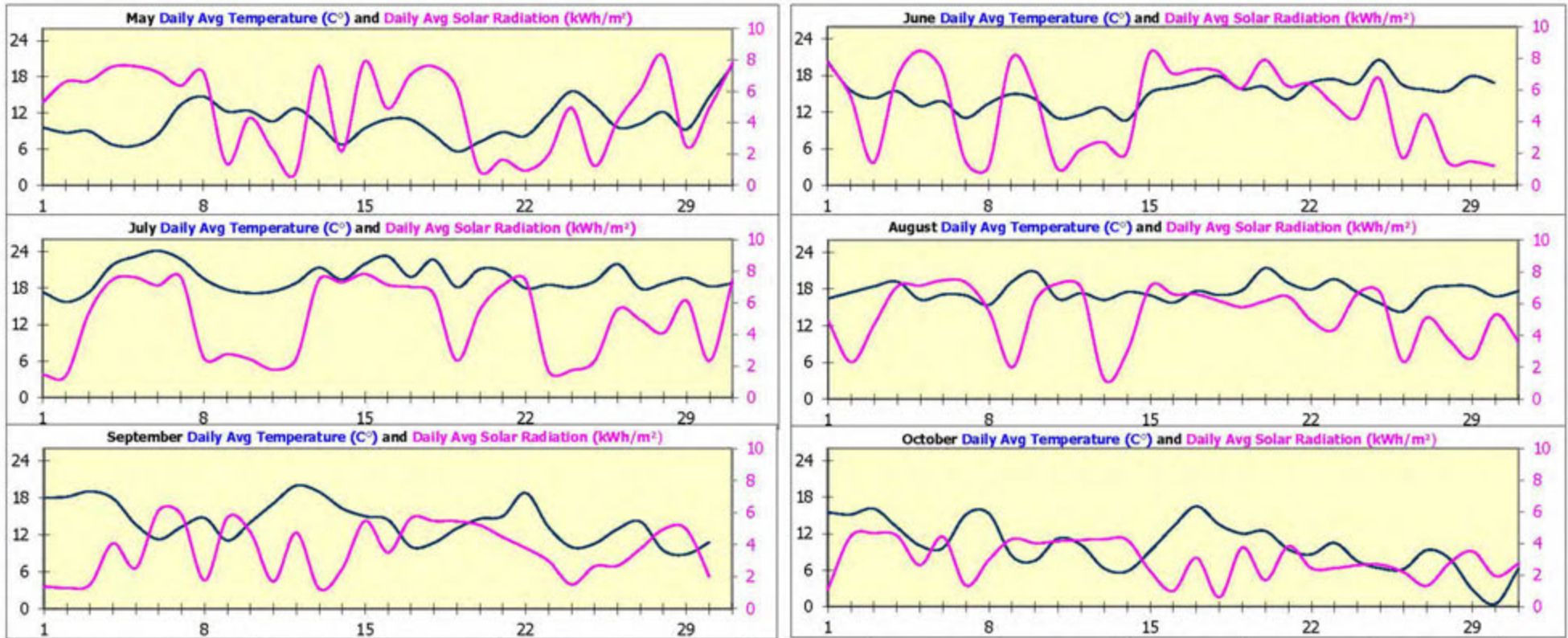
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|------------|-----------------------|------------|
| Station ID: | CL2 (O) | Easting: | 293182.113 |
| Location: | Barrington | Northing: | 4826164.93 |
| County: | Shelburne | Height (m): | 9.98 |
| Contact: | Sid Smith | [UTM Zone 20, NAD 83] | |
| Deployment: | 4/28/2011 | | |



2013 Temperature and Solar Radiation Summary for Station CL3

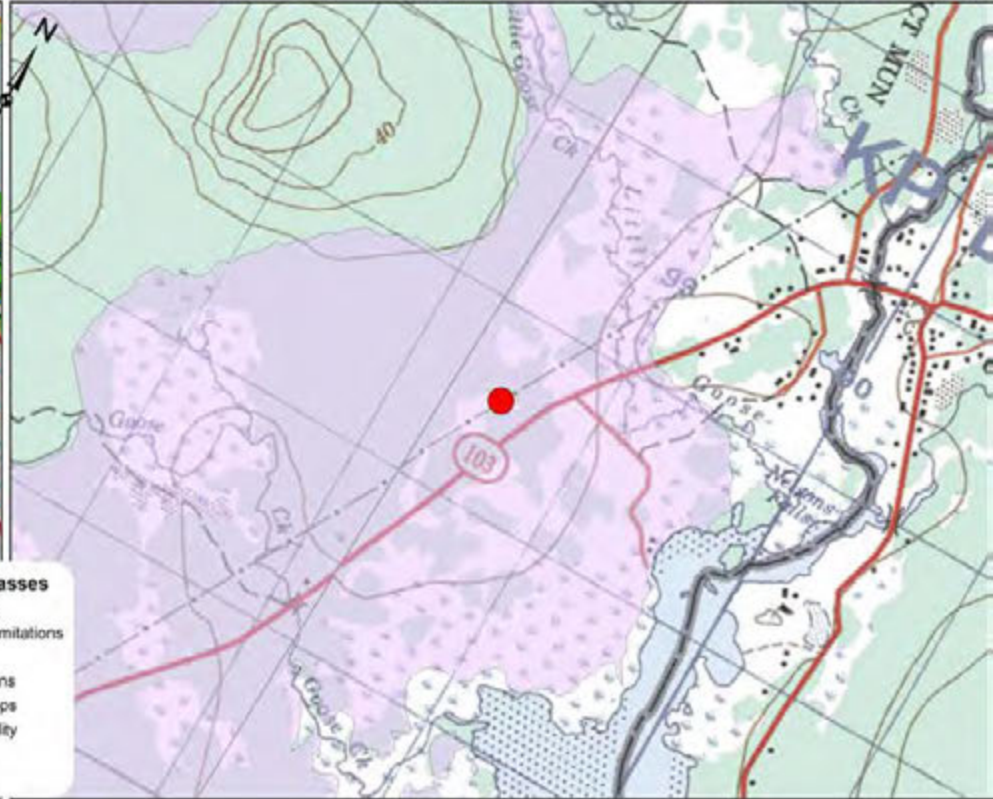
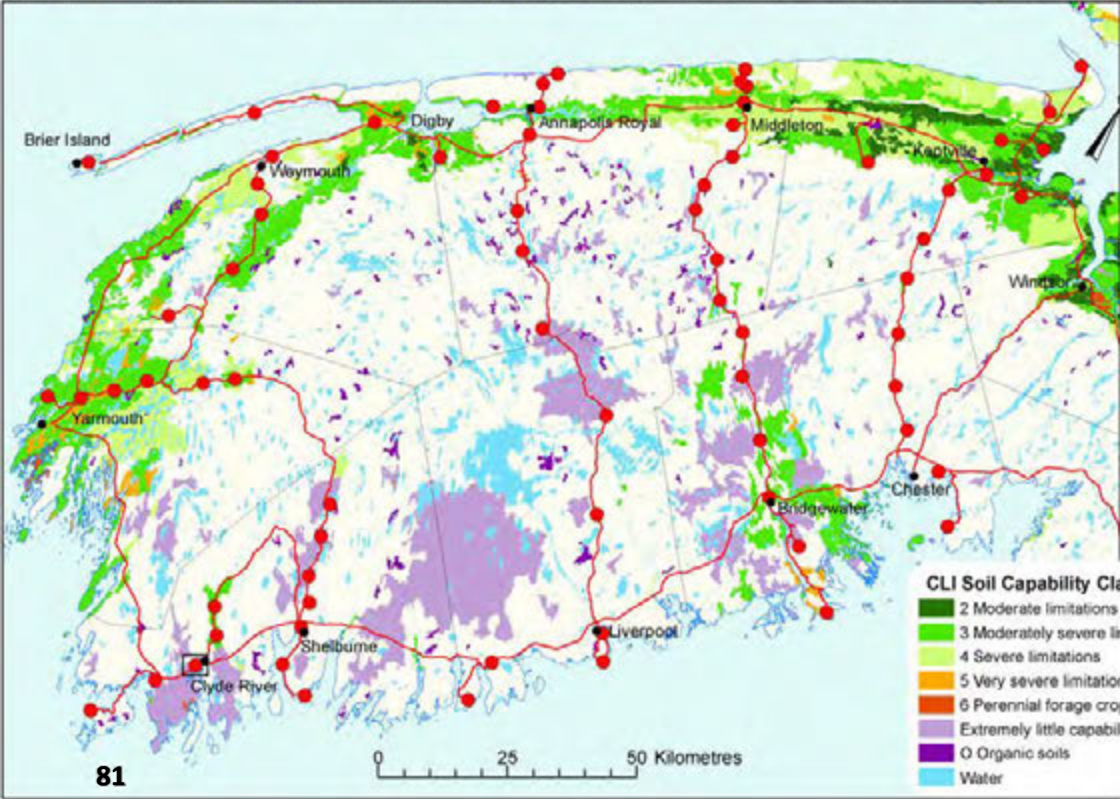


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 11, 2011 | January | 6 [0] | 0 [0] | -18.16 | 12.24 | -2.52 | -4.01 | 45.04 | 1.45 | 1.38 |
| | February | 0 [0] | 0 [0] | -20.26 | 8.17 | -1.67 | -2.85 | 62.37 | 2.23 | 2.09 |
| | March | 4 [0] | 0 [0] | -9.27 | 12.56 | 1.63 | 0.94 | 92.94 | 3.00 | 3.08 |
| | April | 43 [0] | 0 [0] | -7.35 | 17.68 | 5.42 | 5.17 | 119.73 | 3.99 | 4.23 |
| Frost Free Start: May 19, 2013 06:25 | May | 173 [80] | 51 [29] | -2.19 | 28.82 | 10.58 | 10.87 | 148.45 | 4.79 | 4.84 |
| | June | 320 [320] | 170 [170] | 5.18 | 31.00 | 15.26 | 15.57 | 141.75 | 4.73 | 4.78 |
| Frost Free End: October 14, 2013 05:00 | July | 465 [465] | 310 [310] | 9.83 | 31.36 | 19.68 | 20.09 | 147.97 | 4.77 | 4.93 |
| | August | 393 [393] | 238 [238] | 3.75 | 29.61 | 17.56 | 17.86 | 159.54 | 5.15 | 5.31 |
| | September | 274 [274] | 125 [125] | -0.37 | 25.38 | 14.18 | 14.43 | 107.42 | 3.58 | 3.48 |
| Frost Free Duration: 147.94 days | October | 152 [85] | 45 [27] | -7.61 | 22.30 | 10.05 | 9.65 | 89.94 | 2.90 | 2.96 |
| | November | 46 [0] | 15 [0] | -13.20 | 17.46 | 4.04 | 3.61 | 40.82 | 1.36 | 1.25 |
| | December | 10 [0] | 0 [0] | -17.81 | 12.32 | -0.44 | -2.03 | 25.71 | 0.83 | 0.79 |
| | Totals, Averages or Extremes | 1886 [1617] | 954 [899] | -20.26 | 31.36 | 7.81 | 7.44 | 1,181.68 | 38.78 | 39.12 |

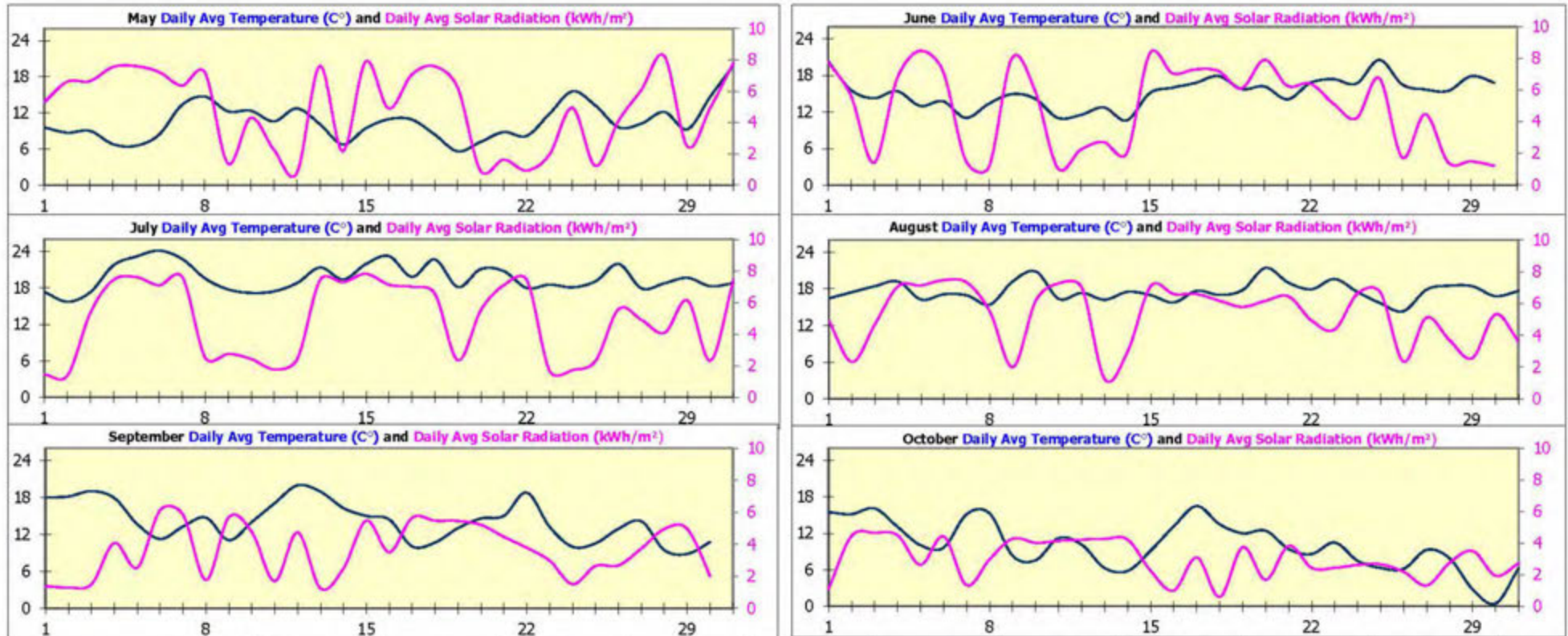
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|-----------------|-----------------------|-------------|
| Station ID: | CL3 (O) | Easting: | 298520.374 |
| Location: | Clyde River | Northing: | 4832541.965 |
| County: | Shelburne | Height (m): | 14.72 |
| Contact: | Larry Nickerson | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/11/2011 | | |



2013 Temperature and Solar Radiation Summary for Station CL3

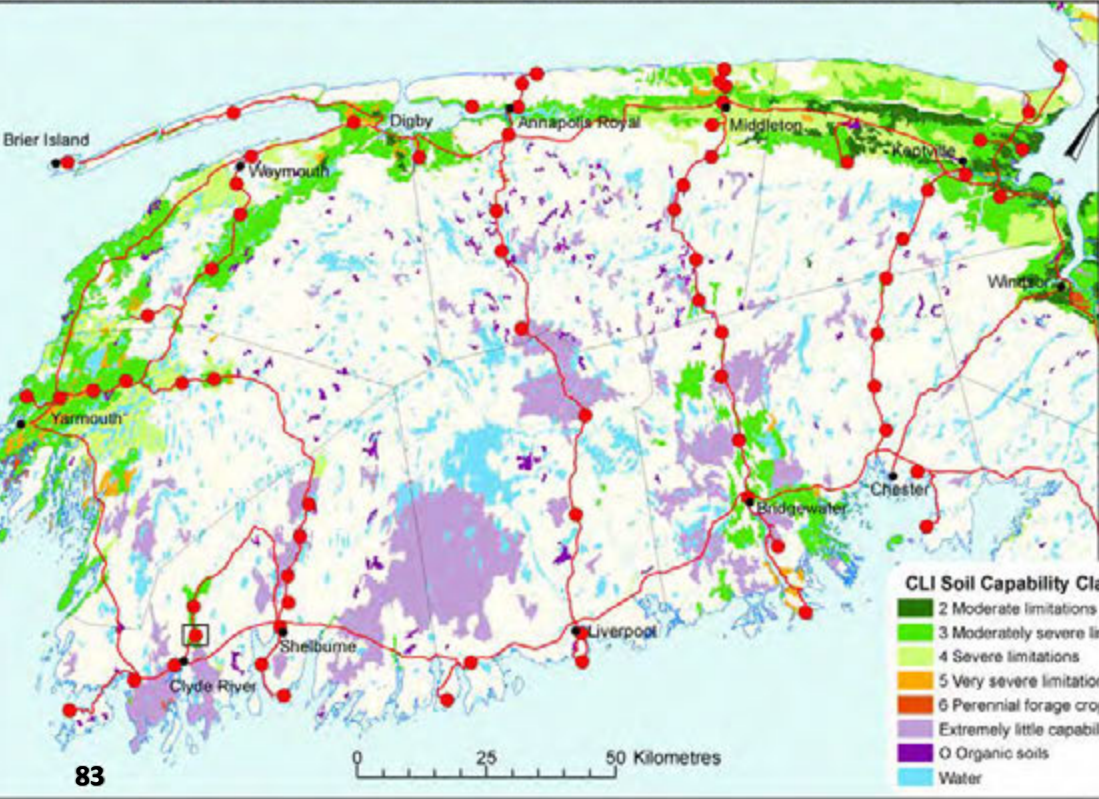
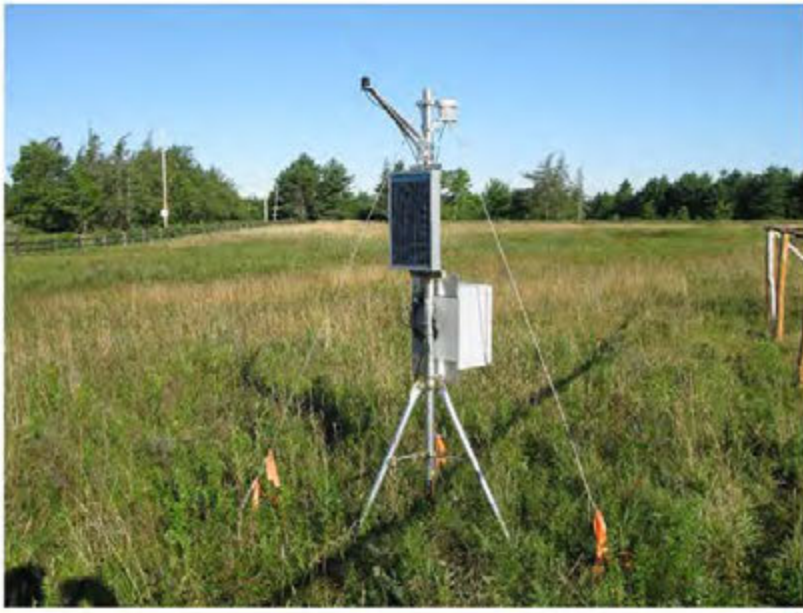


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 11, 2011 | January | 6 [0] | 0 [0] | -18.16 | 12.24 | -2.52 | -4.01 | 45.04 | 1.45 | 1.38 |
| | February | 0 [0] | 0 [0] | -20.26 | 8.17 | -1.67 | -2.85 | 62.37 | 2.23 | 2.09 |
| | March | 4 [0] | 0 [0] | -9.27 | 12.56 | 1.63 | 0.94 | 92.94 | 3.00 | 3.08 |
| | April | 43 [0] | 0 [0] | -7.35 | 17.68 | 5.42 | 5.17 | 119.73 | 3.99 | 4.23 |
| Frost Free Start: May 19, 2013 06:25 | May | 173 [80] | 51 [29] | -2.19 | 28.82 | 10.58 | 10.87 | 148.45 | 4.79 | 4.84 |
| | June | 320 [320] | 170 [170] | 5.18 | 31.00 | 15.26 | 15.57 | 141.75 | 4.73 | 4.78 |
| Frost Free End: October 14, 2013 05:00 | July | 465 [465] | 310 [310] | 9.83 | 31.36 | 19.68 | 20.09 | 147.97 | 4.77 | 4.93 |
| | August | 393 [393] | 238 [238] | 3.75 | 29.61 | 17.56 | 17.86 | 159.54 | 5.15 | 5.31 |
| | September | 274 [274] | 125 [125] | -0.37 | 25.38 | 14.18 | 14.43 | 107.42 | 3.58 | 3.48 |
| Frost Free Duration: 147.94 days | October | 152 [85] | 45 [27] | -7.61 | 22.30 | 10.05 | 9.65 | 89.94 | 2.90 | 2.96 |
| | November | 46 [0] | 15 [0] | -13.20 | 17.46 | 4.04 | 3.61 | 40.82 | 1.36 | 1.25 |
| | December | 10 [0] | 0 [0] | -17.81 | 12.32 | -0.44 | -2.03 | 25.71 | 0.83 | 0.79 |
| | Totals, Averages or Extremes | 1886 [1617] | 954 [899] | -20.26 | 31.36 | 7.81 | 7.44 | 1,181.68 | 38.78 | 39.12 |

South West NS Temperature and Solar Radiation Study

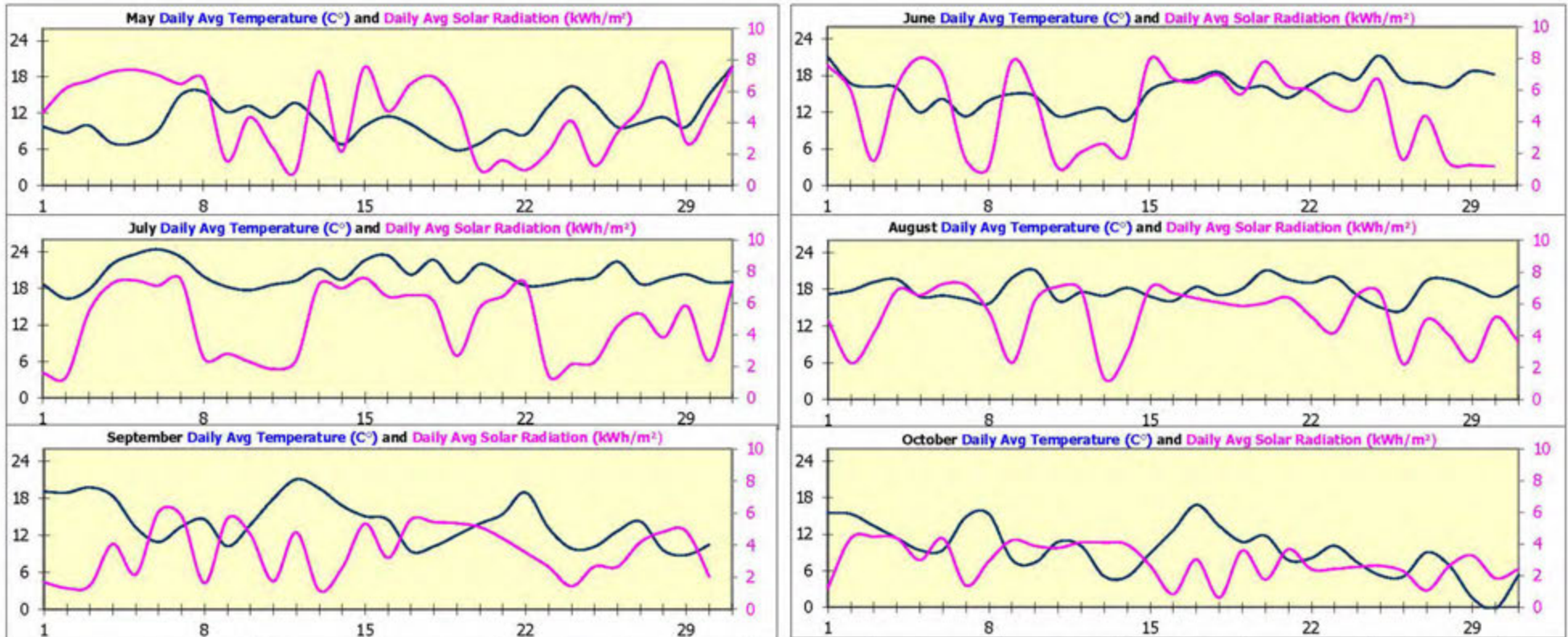
Station Description

| | | | |
|-------------|------------------|-----------------------|-------------|
| Station ID: | CL4 (O) | Easting: | 299175.695 |
| Location: | Clyde River | Northing: | 4839662.488 |
| County: | Shelburne | Height (m): | 15.22 |
| Contact: | Peter Sutherland | [UTM Zone 20, NAD 83] | |
| Deployment: | 4/28/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station CL4

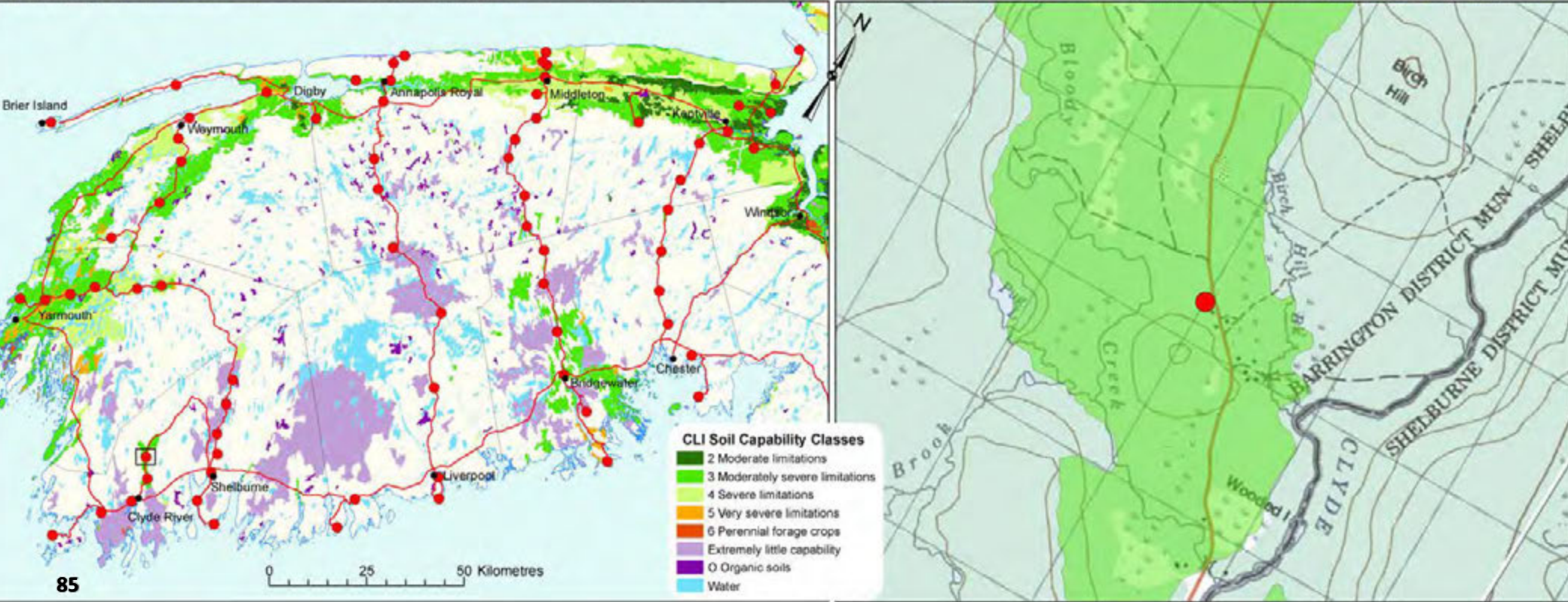


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 28, 2011 | January | 7 [0] | 0 [0] | -18.43 | 12.51 | -3.02 | -4.01 | 45.81 | 1.48 | 1.38 |
| | February | 0 [0] | 0 [0] | -20.50 | 9.14 | -2.04 | -2.85 | 63.15 | 2.26 | 2.09 |
| | March | 3 [0] | 0 [0] | -9.44 | 13.93 | 1.55 | 0.94 | 99.32 | 3.20 | 3.08 |
| | April | 43 [0] | 1 [0] | -8.50 | 19.18 | 5.51 | 5.17 | 125.26 | 4.18 | 4.23 |
| Frost Free Start: May 19, 2013 06:45 | May | 183 [83] | 55 [30] | -3.21 | 29.82 | 10.91 | 10.87 | 147.76 | 4.77 | 4.84 |
| | June | 330 [330] | 180 [180] | 2.77 | 33.16 | 15.79 | 15.57 | 144.42 | 4.81 | 4.78 |
| | July | 485 [485] | 330 [330] | 8.84 | 32.20 | 20.18 | 20.09 | 150.52 | 4.86 | 4.93 |
| Frost Free End: October 13, 2013 05:45 | August | 407 [407] | 252 [252] | 2.85 | 30.19 | 17.89 | 17.86 | 165.27 | 5.33 | 5.31 |
| | September | 280 [280] | 132 [132] | -0.70 | 27.43 | 14.21 | 14.43 | 111.16 | 3.71 | 3.48 |
| | October | 148 [83] | 41 [25] | -8.40 | 24.34 | 9.38 | 9.65 | 91.99 | 2.97 | 2.96 |
| Frost Free Duration: 146.96 days | November | 43 [0] | 13 [0] | -13.70 | 17.53 | 3.57 | 3.61 | 40.17 | 1.34 | 1.25 |
| | December | 10 [0] | 0 [0] | -18.25 | 12.75 | -0.75 | -2.03 | 26.43 | 0.85 | 0.79 |
| | Totals, Averages or Extremes | 1939 [1668] | 1004 [949] | -20.50 | 33.16 | 7.77 | 7.44 | 1,211.26 | 39.74 | 39.12 |

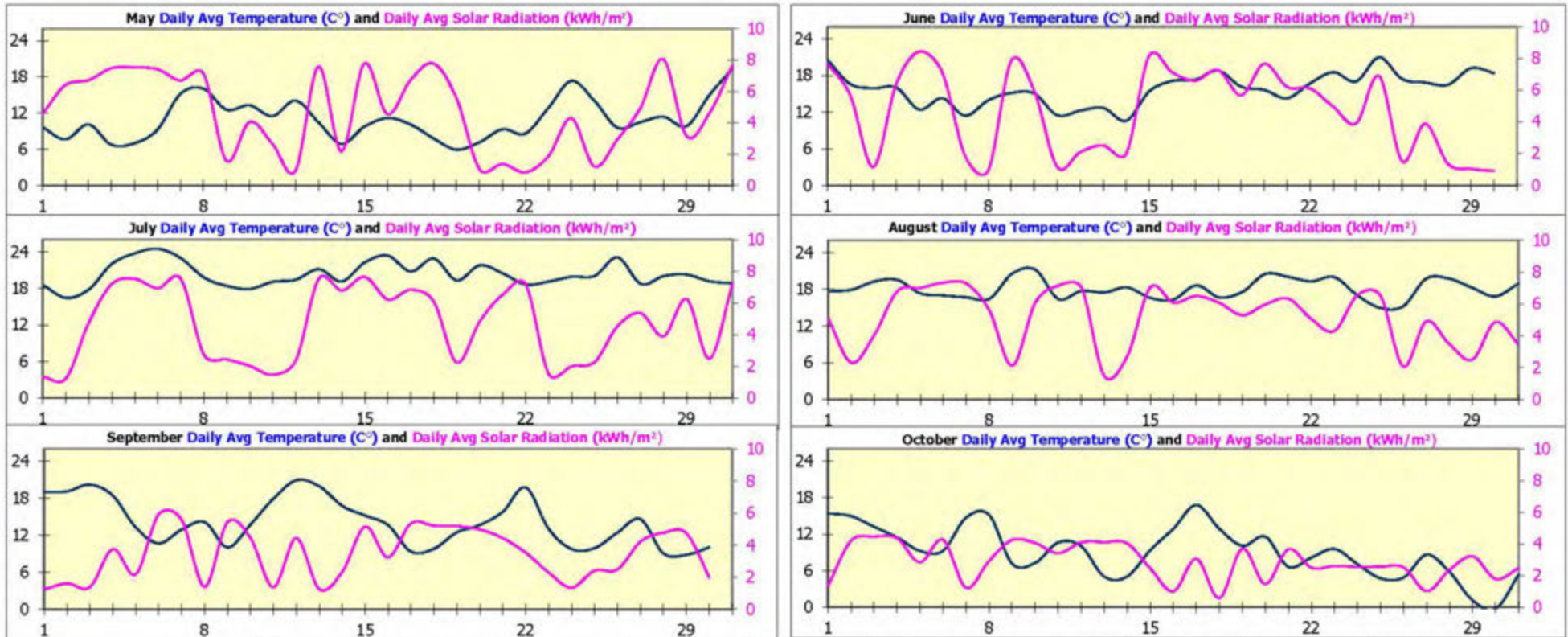
South West NS Temperature and Solar Radiation Study

Station Description

Station ID: CL5 (O)
Location: Clyde River Easting: 296016.428
County: Shelburne Northing: 4844291.194
Contact: Ruth Hemeon Height (m): 24.21
Deployment: 4/28/2011 [UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station CL5

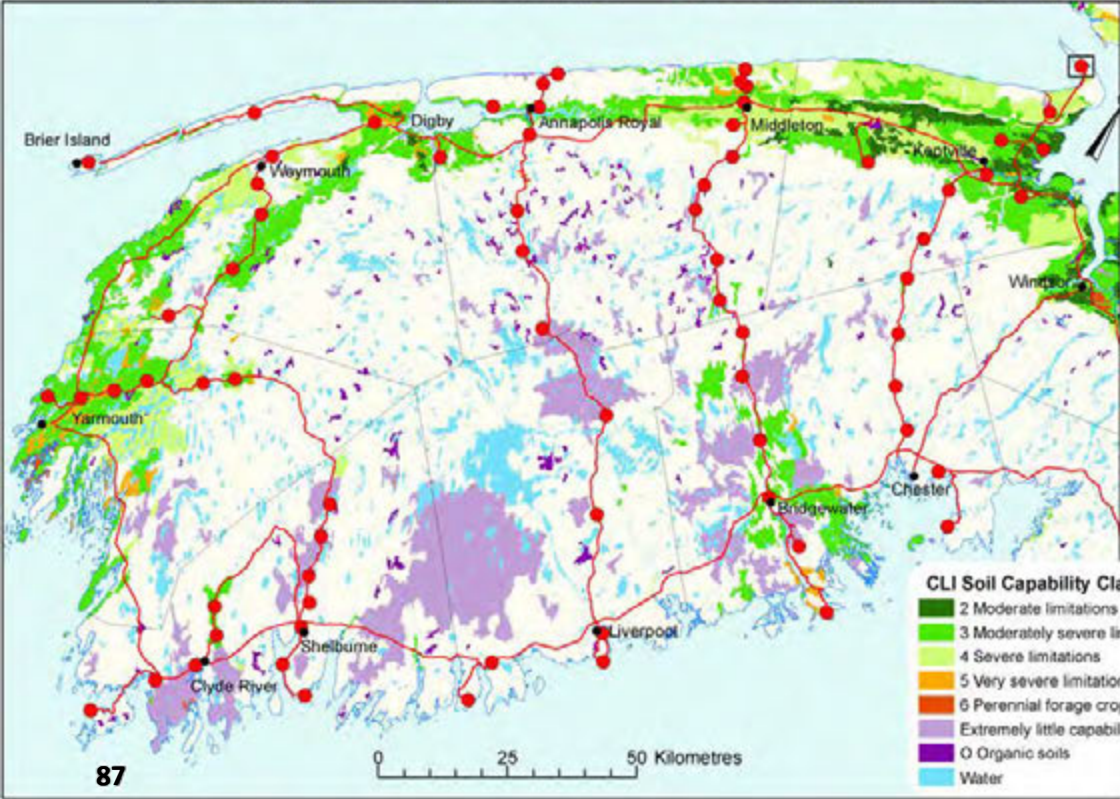


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 28, 2011 | January | 5 [0] | 0 [0] | -19.29 | 13.45 | -3.40 | -4.01 | 36.94 | 1.19 | 1.38 |
| | February | 0 [0] | 0 [0] | -21.08 | 9.51 | -2.11 | -2.85 | 57.45 | 2.05 | 2.09 |
| | March | 4 [0] | 0 [0] | -9.85 | 14.65 | 1.49 | 0.94 | 93.92 | 3.03 | 3.08 |
| | April | 50 [0] | 4 [0] | -8.16 | 20.41 | 5.50 | 5.17 | 118.92 | 3.96 | 4.23 |
| Frost Free Start: May 19, 2013 07:01 | May | 190 [86] | 60 [31] | -3.63 | 29.41 | 10.97 | 10.87 | 145.51 | 4.69 | 4.84 |
| | June | 332 [332] | 182 [182] | 3.25 | 32.43 | 15.84 | 15.57 | 138.56 | 4.62 | 4.78 |
| | July | 490 [490] | 335 [335] | 8.79 | 33.26 | 20.31 | 20.09 | 143.25 | 4.62 | 4.93 |
| Frost Free End: October 13, 2013 05:01 | August | 415 [415] | 260 [260] | 2.66 | 30.57 | 18.06 | 17.86 | 157.33 | 5.08 | 5.31 |
| | September | 286 [286] | 137 [137] | -0.70 | 26.99 | 14.17 | 14.43 | 102.72 | 3.42 | 3.48 |
| | October | 146 [83] | 40 [26] | -8.26 | 24.73 | 9.17 | 9.65 | 88.18 | 2.85 | 2.96 |
| Frost Free Duration: 146.92 days | November | 46 [0] | 15 [0] | -14.24 | 18.46 | 3.30 | 3.61 | 35.83 | 1.19 | 1.25 |
| | December | 9 [0] | 0 [0] | -18.97 | 12.65 | -1.14 | -2.03 | 20.38 | 0.66 | 0.79 |
| | Totals, Averages or Extremes | 1973 [1692] | 1033 [971] | -21.08 | 33.26 | 7.68 | 7.44 | 1,138.99 | 37.37 | 39.12 |

South West NS Temperature and Solar Radiation Study

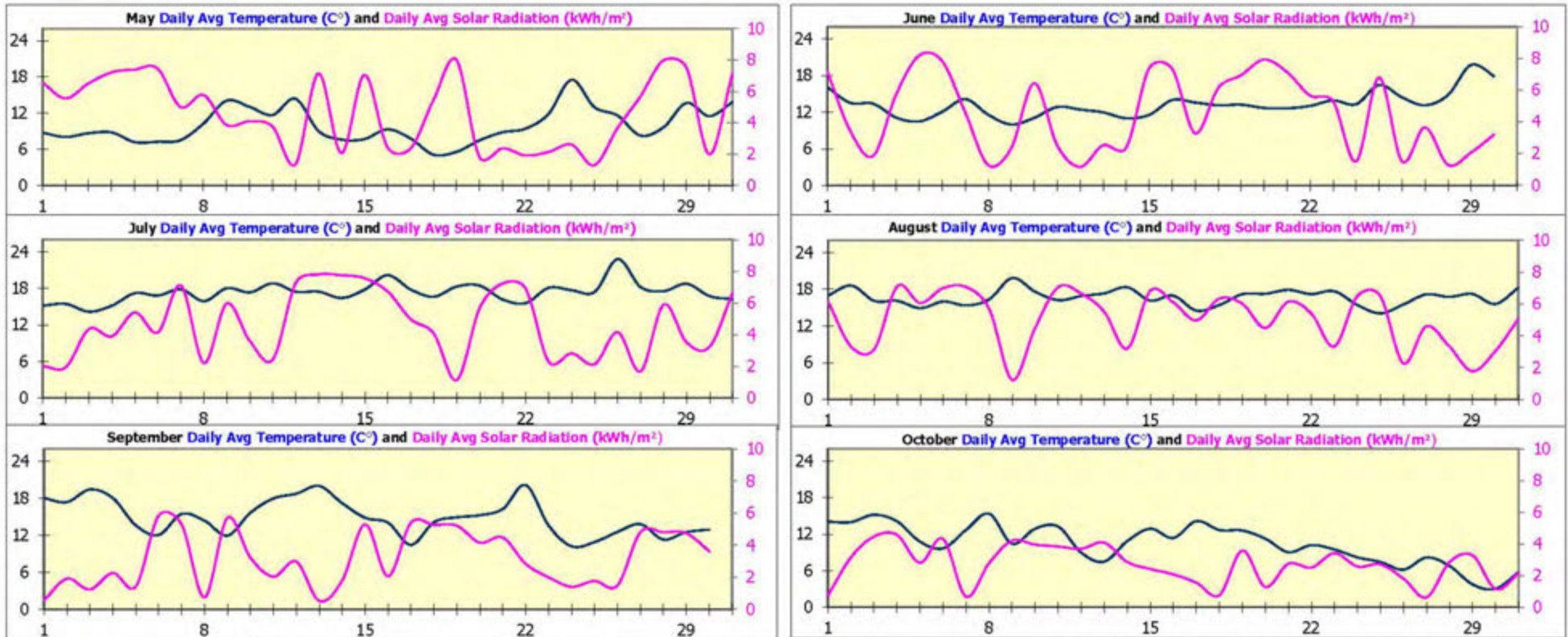
Station Description

Station ID: KE1 (O)
 Location: Scotts Bay Easting: 389067.203
 County: Kings Northing: 5018706.093
 Contact: Kathleen & Darren Huntley Height (m): 19.36
 Deployment: 7/13/2011 [UTM Zone 20, NAD 83]



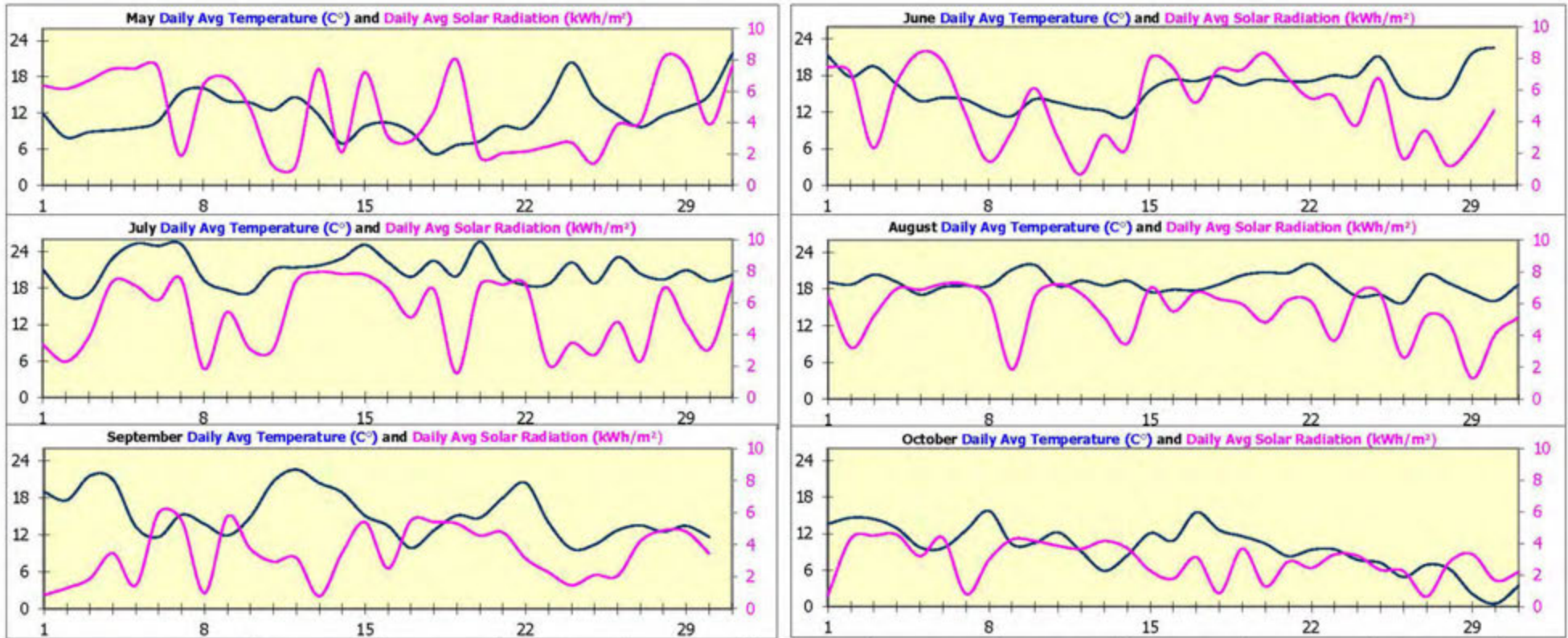
- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station KE1



| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 13, 2011 | January | 5 [0] | 0 [0] | -18.74 | 13.83 | -4.68 | -4.01 | 40.84 | 1.32 | 1.38 |
| | February | 0 [0] | 0 [0] | -18.12 | 8.20 | -3.30 | -2.85 | 57.53 | 2.06 | 2.09 |
| | March | 4 [0] | 0 [0] | -12.45 | 13.38 | 0.65 | 0.94 | 97.52 | 3.15 | 3.08 |
| | April | 34 [5] | 2 [0] | -3.48 | 18.22 | 4.75 | 5.17 | 137.63 | 4.59 | 4.23 |
| Frost Free Start: April 29, 2013 05:50 | May | 159 [159] | 43 [43] | 1.32 | 21.72 | 9.94 | 10.87 | 148.72 | 4.80 | 4.84 |
| | June | 255 [255] | 105 [105] | 5.87 | 23.28 | 13.31 | 15.57 | 138.11 | 4.60 | 4.78 |
| | July | 398 [398] | 243 [243] | 9.95 | 28.64 | 17.34 | 20.09 | 146.03 | 4.71 | 4.93 |
| Frost Free End: October 30, 2013 02:55 | August | 370 [370] | 215 [215] | 7.67 | 24.99 | 16.68 | 17.86 | 160.32 | 5.17 | 5.31 |
| | September | 304 [304] | 154 [154] | 5.05 | 25.72 | 14.93 | 14.43 | 97.42 | 3.25 | 3.48 |
| | October | 159 [159] | 43 [43] | -2.22 | 19.82 | 10.42 | 9.65 | 85.81 | 2.77 | 2.96 |
| Frost Free Duration: 183.88 days | November | 49 [0] | 10 [0] | -7.25 | 18.98 | 4.19 | 3.61 | 36.77 | 1.23 | 1.25 |
| | December | 2 [0] | 0 [0] | -18.30 | 10.91 | -2.90 | -2.03 | 24.74 | 0.80 | 0.79 |
| | Totals, Averages or Extremes | 1739 [1650] | 815 [803] | -18.74 | 28.64 | 6.78 | 7.44 | 1,171.44 | 38.43 | 39.12 |

2013 Temperature and Solar Radiation Summary for Station KE2

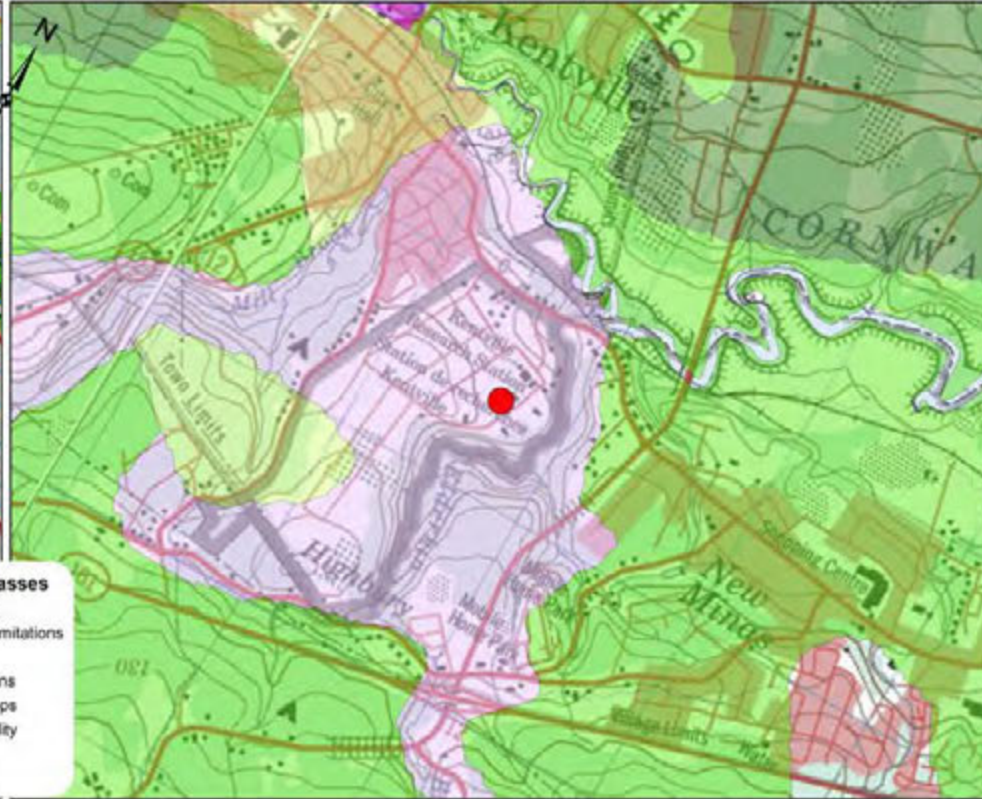
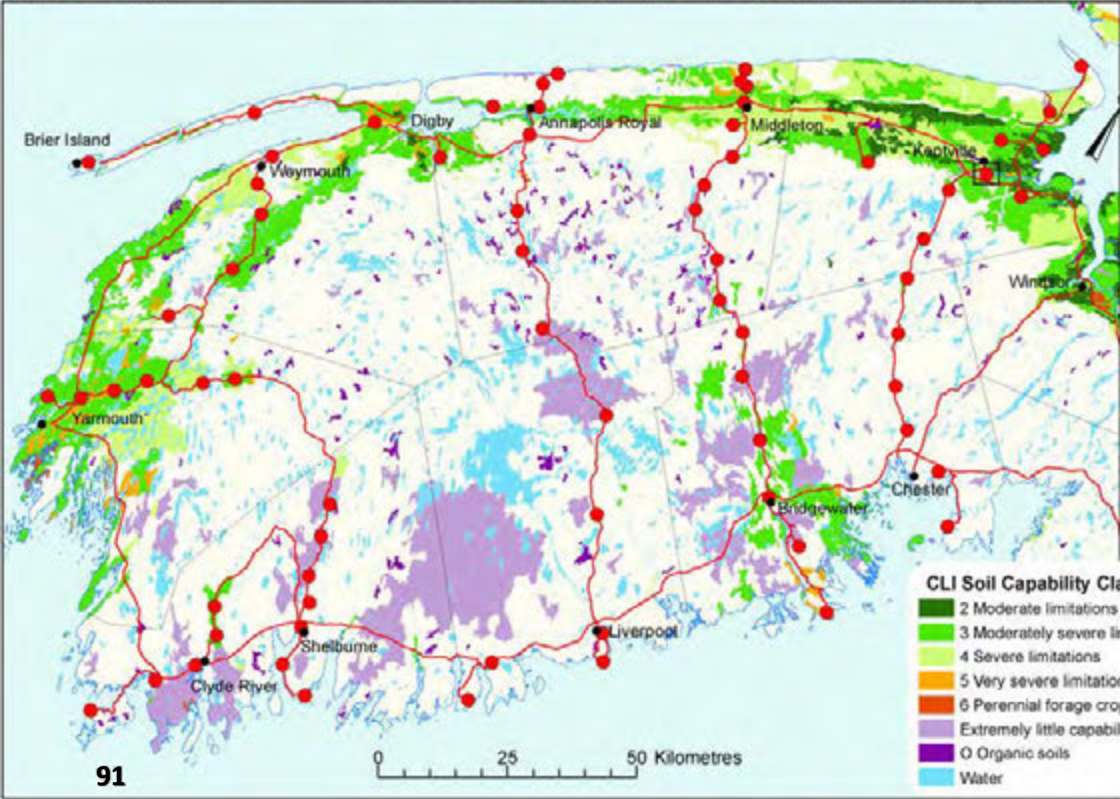


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 13, 2011 | January | 6 [0] | 0 [0] | -19.79 | 15.68 | -5.02 | -4.01 | 46.08 | 1.49 | 1.38 |
| | February | 0 [0] | 0 [0] | -21.87 | 7.59 | -3.45 | -2.85 | 60.06 | 2.14 | 2.09 |
| | March | 4 [0] | 0 [0] | -11.79 | 13.14 | 0.79 | 0.94 | 99.36 | 3.21 | 3.08 |
| | April | 52 [0] | 13 [0] | -5.33 | 23.88 | 5.61 | 5.17 | 135.97 | 4.53 | 4.23 |
| Frost Free Start: May 19, 2013 02:38 | May | 217 [104] | 81 [47] | -0.09 | 29.16 | 11.68 | 10.87 | 153.00 | 4.94 | 4.84 |
| | June | 345 [345] | 195 [195] | 7.95 | 30.22 | 16.22 | 15.57 | 151.49 | 5.05 | 4.78 |
| | July | 506 [506] | 351 [351] | 11.32 | 32.90 | 20.99 | 20.09 | 162.20 | 5.23 | 4.93 |
| Frost Free End: October 29, 2013 06:13 | August | 435 [435] | 280 [280] | 6.76 | 30.32 | 18.84 | 17.86 | 170.85 | 5.51 | 5.31 |
| | September | 324 [324] | 174 [174] | 4.77 | 27.78 | 15.33 | 14.43 | 104.41 | 3.48 | 3.48 |
| | October | 157 [157] | 43 [43] | -4.83 | 22.63 | 9.64 | 9.65 | 90.21 | 2.91 | 2.96 |
| Frost Free Duration: 163.15 days | November | 42 [0] | 9 [0] | -8.33 | 20.84 | 3.63 | 3.61 | 37.37 | 1.25 | 1.25 |
| | December | 2 [0] | 0 [0] | -17.64 | 11.18 | -3.20 | -2.03 | 28.79 | 0.93 | 0.79 |
| | Totals, Averages or Extremes | 2090 [1871] | 1146 [1090] | -21.87 | 32.90 | 7.59 | 7.44 | 1,239.79 | 40.66 | 39.12 |

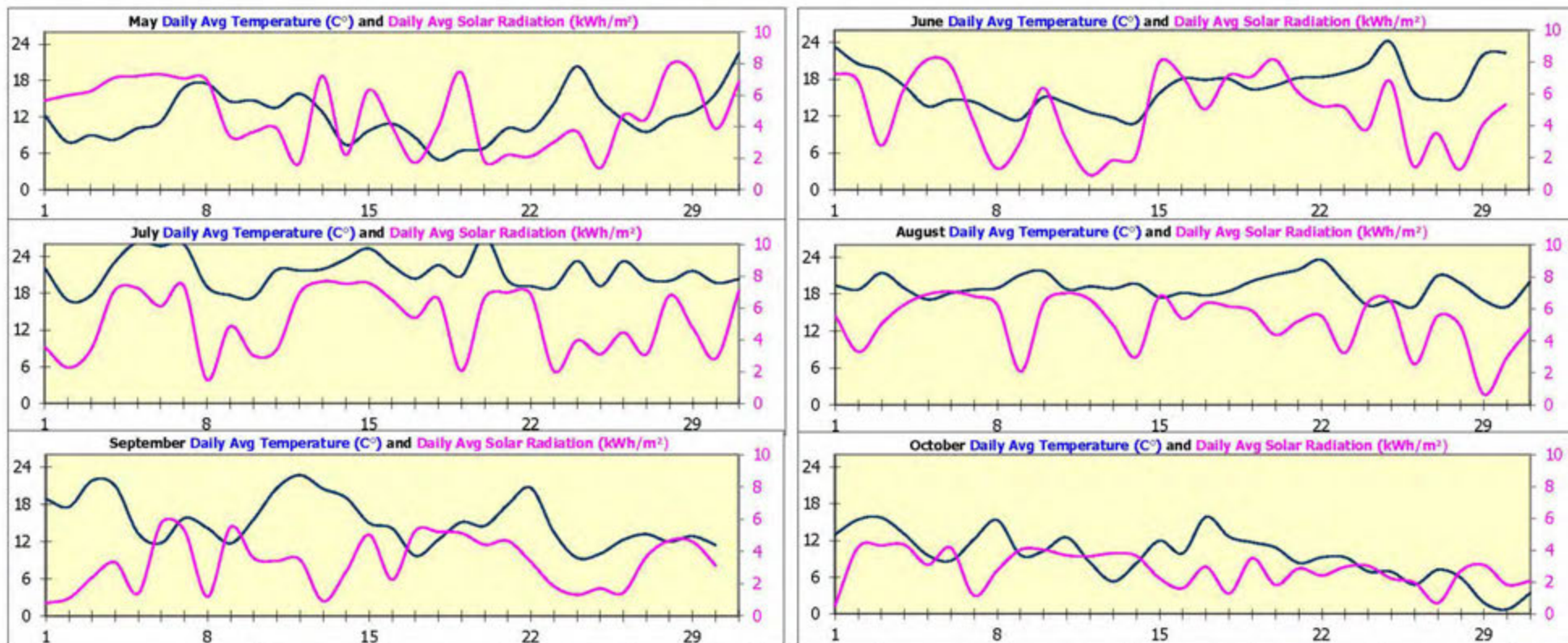
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|---------------|-----------------------|-------------|
| Station ID: | KE3 (O) | Easting: | 383641.679 |
| Location: | Kentville | Northing: | 4991492.489 |
| County: | Kings | Height (m): | 49.65 |
| Contact: | Jeff Franklin | [UTM Zone 20, NAD 83] | |
| Deployment: | 7/13/2011 | | |



2013 Temperature and Solar Radiation Summary for Station KE3



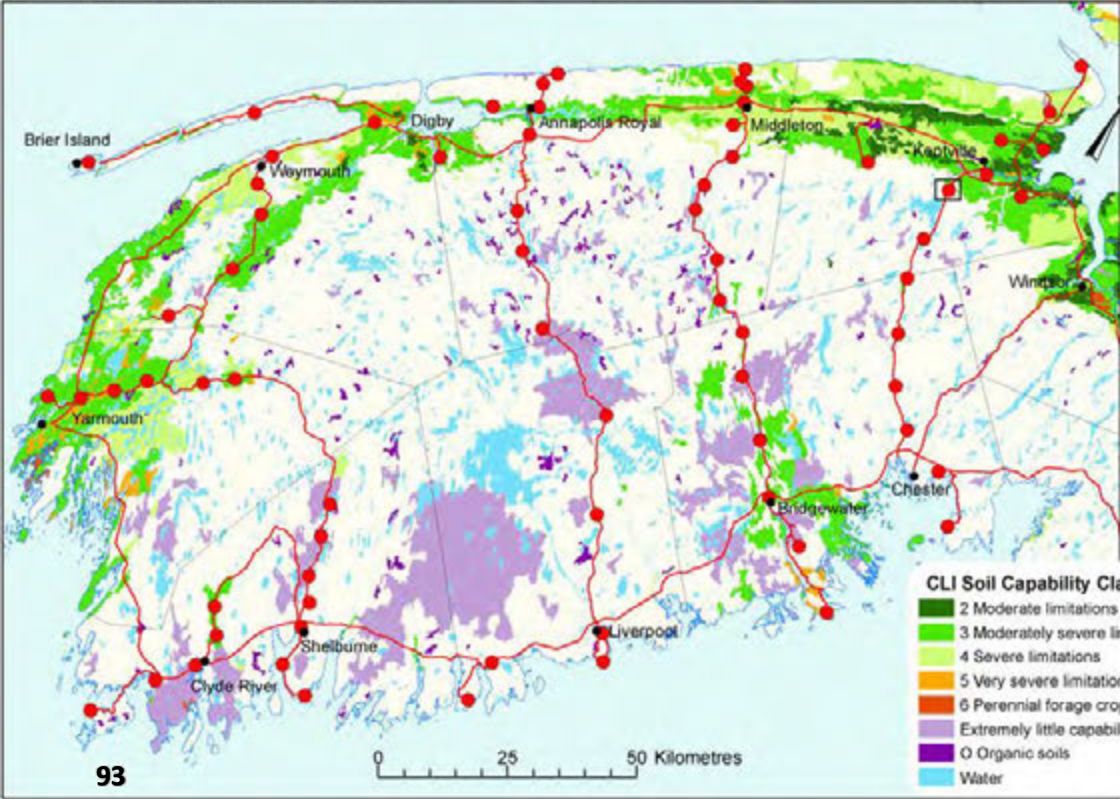
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 13, 2011 | January | 8 [0] | 0 [0] | -18.12 | 15.80 | -5.06 | -4.01 | 43.22 | 1.40 | 1.38 |
| | February | 0 [0] | 0 [0] | -23.36 | 9.88 | -3.75 | -2.85 | 58.50 | 2.09 | 2.09 |
| | March | 4 [0] | 0 [0] | -12.16 | 13.04 | 0.61 | 0.94 | 97.13 | 3.13 | 3.08 |
| | April | 56 [0] | 11 [0] | -3.81 | 23.79 | 5.84 | 5.17 | 125.45 | 4.18 | 4.23 |
| Frost Free Start: May 19, 2013 03:24 | May | 226 [102] | 91 [46] | -1.01 | 29.39 | 12.02 | 10.87 | 154.18 | 4.97 | 4.84 |
| | June | 361 [361] | 211 [211] | 6.89 | 32.72 | 16.83 | 15.57 | 153.07 | 5.10 | 4.78 |
| | July | 509 [509] | 354 [354] | 11.13 | 32.92 | 21.46 | 20.09 | 164.31 | 5.30 | 4.93 |
| Frost Free End: October 29, 2013 23:39 | August | 441 [441] | 286 [286] | 6.38 | 30.39 | 19.10 | 17.86 | 166.47 | 5.37 | 5.31 |
| | September | 313 [313] | 165 [165] | 2.82 | 27.28 | 15.29 | 14.43 | 102.54 | 3.42 | 3.48 |
| | October | 147 [147] | 40 [40] | -4.59 | 23.52 | 9.51 | 9.65 | 89.86 | 2.90 | 2.96 |
| Frost Free Duration: 163.84 days | November | 43 [0] | 11 [0] | -9.58 | 20.63 | 3.54 | 3.61 | 36.76 | 1.23 | 1.25 |
| | December | 3 [0] | 0 [0] | -17.55 | 12.00 | -2.99 | -2.03 | 23.96 | 0.77 | 0.79 |
| | Totals, Averages or Extremes | 2111 [1873] | 1169 [1102] | -23.36 | 32.92 | 7.70 | 7.44 | 1,215.45 | 39.86 | 39.12 |

South West NS Temperature and Solar Radiation Study

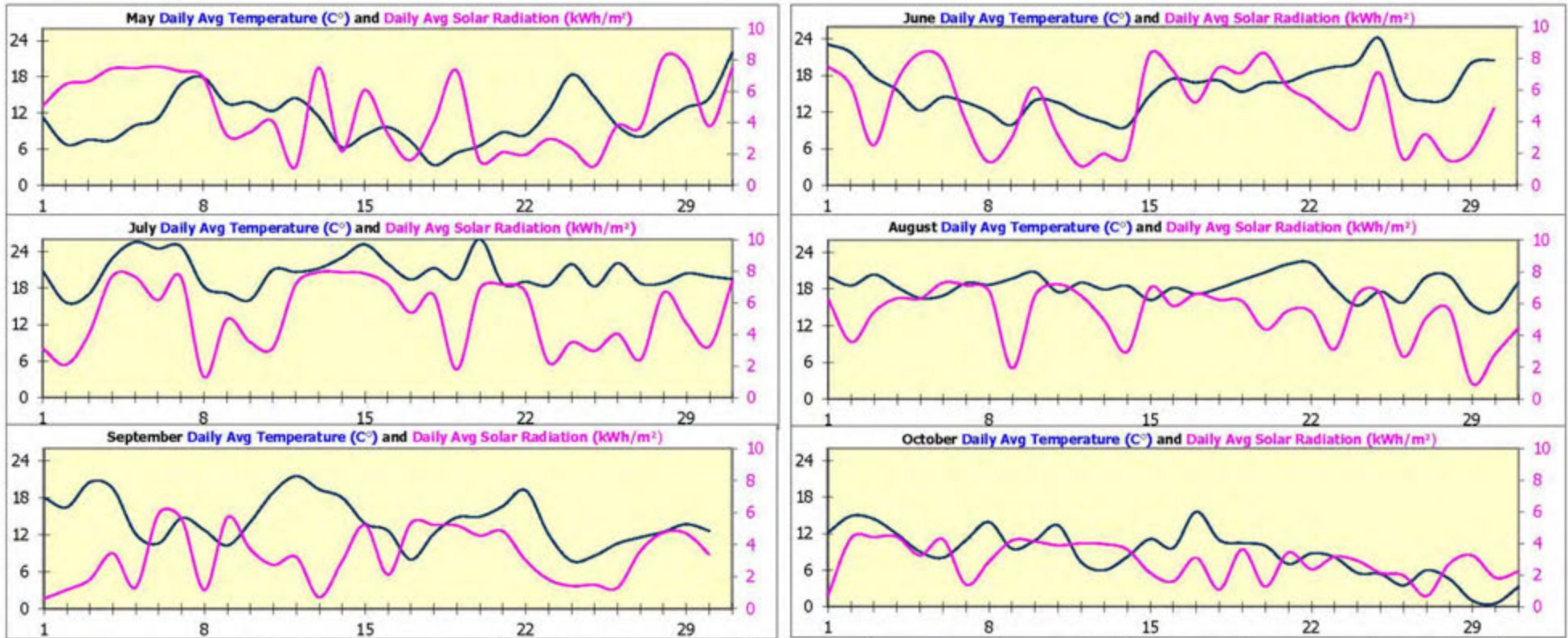
Station Description

Station ID: KE4 (O)
Location: South Alton
County: Kings
Contact: Dianna & Daniel Niema
Deployment: 7/13/2011

Easting: 378757.66
Northing: 4985118.88
Height (m): 229.09
[UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station KE4

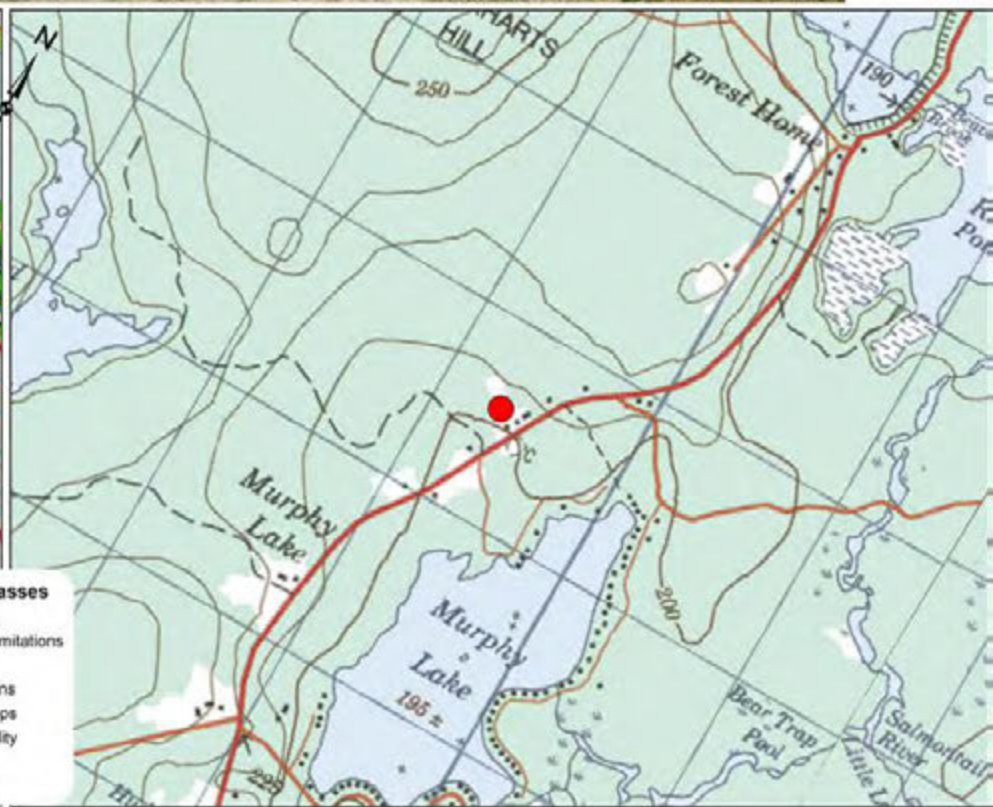
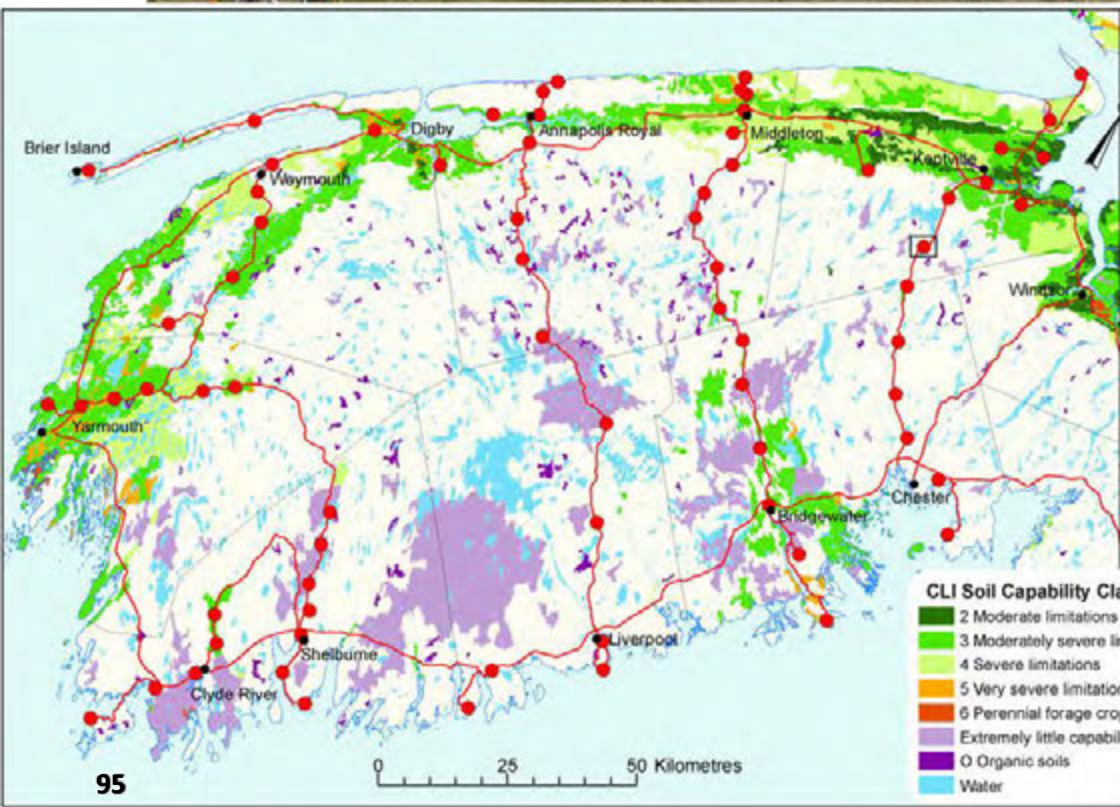


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 13, 2011 | January | 4 [0] | 0 [0] | -19.24 | 14.00 | -6.38 | -4.01 | 42.96 | 1.39 | 1.38 |
| | February | 0 [0] | 0 [0] | -23.14 | 7.52 | -4.81 | -2.85 | 57.12 | 2.04 | 2.09 |
| | March | 2 [0] | 0 [0] | -13.93 | 11.03 | -0.72 | 0.94 | 98.26 | 3.17 | 3.08 |
| | April | 45 [0] | 6 [0] | -6.20 | 21.87 | 4.38 | 5.17 | 129.99 | 4.33 | 4.23 |
| Frost Free Start: May 19, 2013 04:00 | May | 201 [91] | 75 [37] | -1.61 | 28.74 | 11.02 | 10.87 | 147.52 | 4.76 | 4.84 |
| | June | 343 [343] | 193 [193] | 6.79 | 31.66 | 16.04 | 15.57 | 148.02 | 4.93 | 4.78 |
| | July | 490 [490] | 335 [335] | 11.90 | 31.15 | 20.57 | 20.09 | 162.91 | 5.26 | 4.93 |
| Frost Free End: October 29, 2013 23:50 | August | 425 [425] | 270 [270] | 9.56 | 28.34 | 18.43 | 17.86 | 167.18 | 5.39 | 5.31 |
| | September | 293 [293] | 148 [148] | 2.66 | 25.09 | 14.29 | 14.43 | 99.85 | 3.33 | 3.48 |
| | October | 135 [135] | 34 [34] | -3.21 | 22.23 | 8.79 | 9.65 | 90.25 | 2.91 | 2.96 |
| Frost Free Duration: 163.83 days | November | 31 [0] | 6 [0] | -10.44 | 18.65 | 2.26 | 3.61 | 35.98 | 1.20 | 1.25 |
| | December | 2 [0] | 0 [0] | -18.56 | 11.01 | -4.54 | -2.03 | 25.82 | 0.83 | 0.79 |
| | Totals, Averages or Extremes | 1971 [1777] | 1067 [1017] | -23.14 | 31.66 | 6.61 | 7.44 | 1,205.86 | 39.54 | 39.12 |

South West NS Temperature and Solar Radiation Study

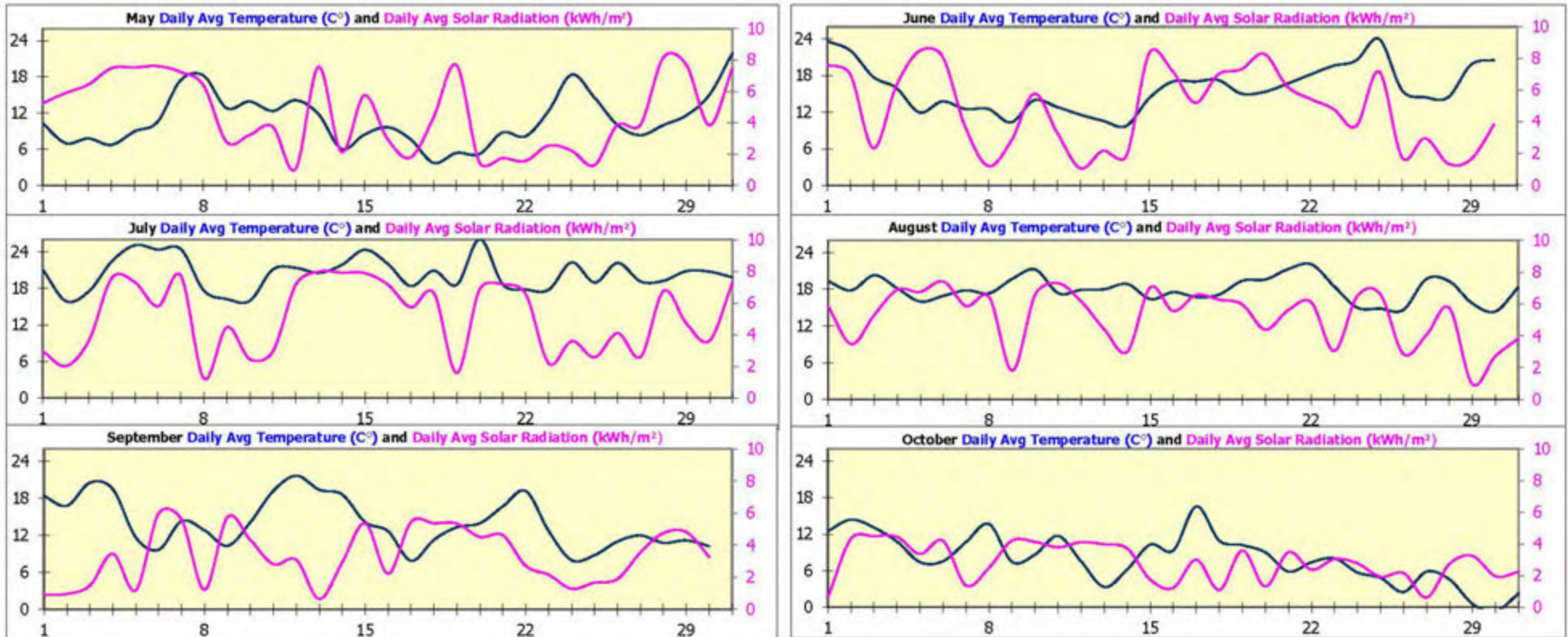
Station Description

Station ID: KE5 (O)
Location: South Forest Home Easting: 379341.272
County: Kings Northing: 4974538.597
Contact: Kirk Keddy Height (m): 211.48
Deployment: 7/13/2011 [UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station KE5

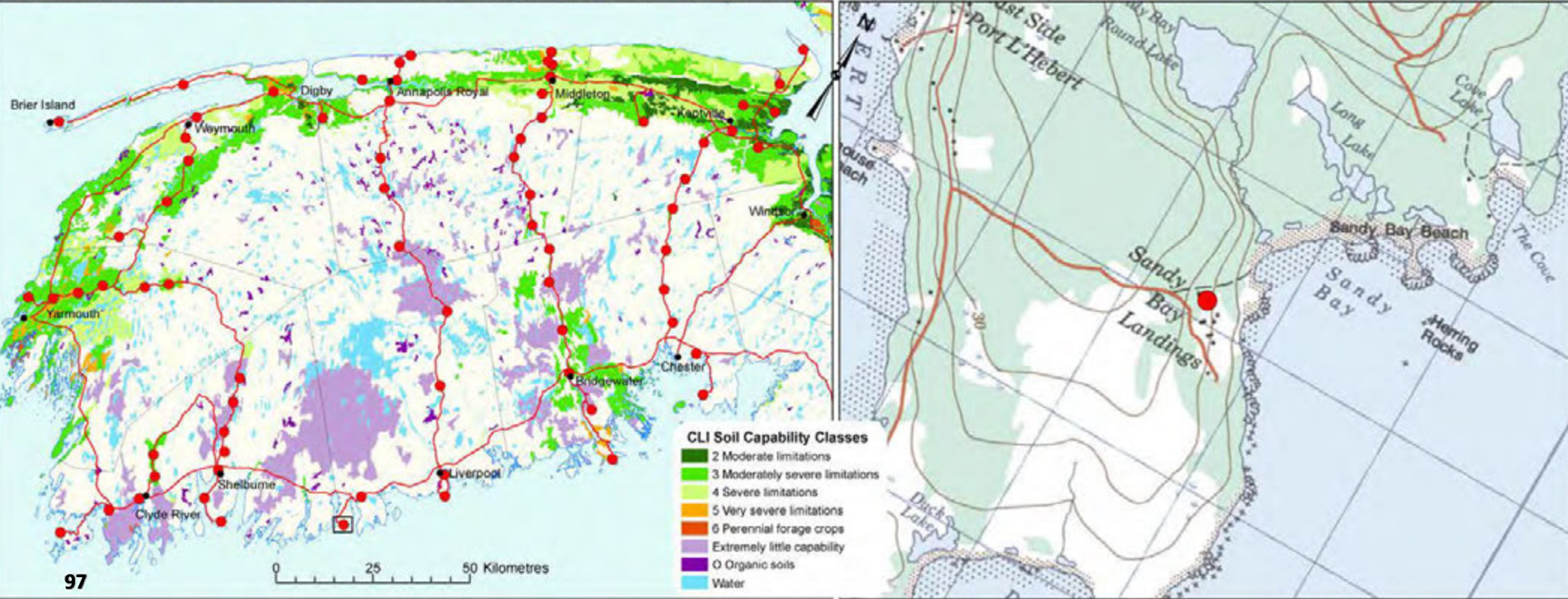


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 13, 2011 | January | 4 [0] | 0 [0] | -22.37 | 13.35 | -6.58 | -4.01 | 41.44 | 1.34 | 1.38 |
| | February | 0 [0] | 0 [0] | -26.73 | 7.54 | -5.03 | -2.85 | 56.06 | 2.00 | 2.09 |
| | March | 1 [0] | 0 [0] | -15.79 | 12.85 | -0.69 | 0.94 | 93.08 | 3.00 | 3.08 |
| | April | 40 [0] | 5 [0] | -7.45 | 23.02 | 4.32 | 5.17 | 124.66 | 4.16 | 4.23 |
| Frost Free Start: May 20, 2013 04:05 | May | 194 [85] | 69 [33] | -2.48 | 30.37 | 10.88 | 10.87 | 141.84 | 4.58 | 4.84 |
| | June | 336 [336] | 186 [186] | 3.48 | 33.39 | 15.97 | 15.57 | 143.63 | 4.79 | 4.78 |
| | July | 476 [476] | 321 [321] | 7.80 | 32.38 | 20.42 | 20.09 | 157.34 | 5.08 | 4.93 |
| Frost Free End: October 13, 2013 01:20 | August | 408 [408] | 253 [253] | 3.43 | 30.42 | 17.97 | 17.86 | 160.35 | 5.17 | 5.31 |
| | September | 283 [283] | 137 [137] | 0.33 | 26.70 | 14.03 | 14.43 | 98.92 | 3.30 | 3.48 |
| Frost Free Duration: 145.89 days | October | 105 [59] | 23 [14] | -6.55 | 24.20 | 8.02 | 9.65 | 87.43 | 2.82 | 2.96 |
| | November | 30 [0] | 7 [0] | -12.01 | 18.87 | 2.14 | 3.61 | 34.35 | 1.15 | 1.25 |
| | December | 2 [0] | 0 [0] | -20.45 | 11.32 | -4.50 | -2.03 | 23.95 | 0.77 | 0.79 |
| | Totals, Averages or Extremes | 1879 [1647] | 1001 [944] | -26.73 | 33.39 | 6.41 | 7.44 | 1,163.05 | 38.14 | 39.12 |

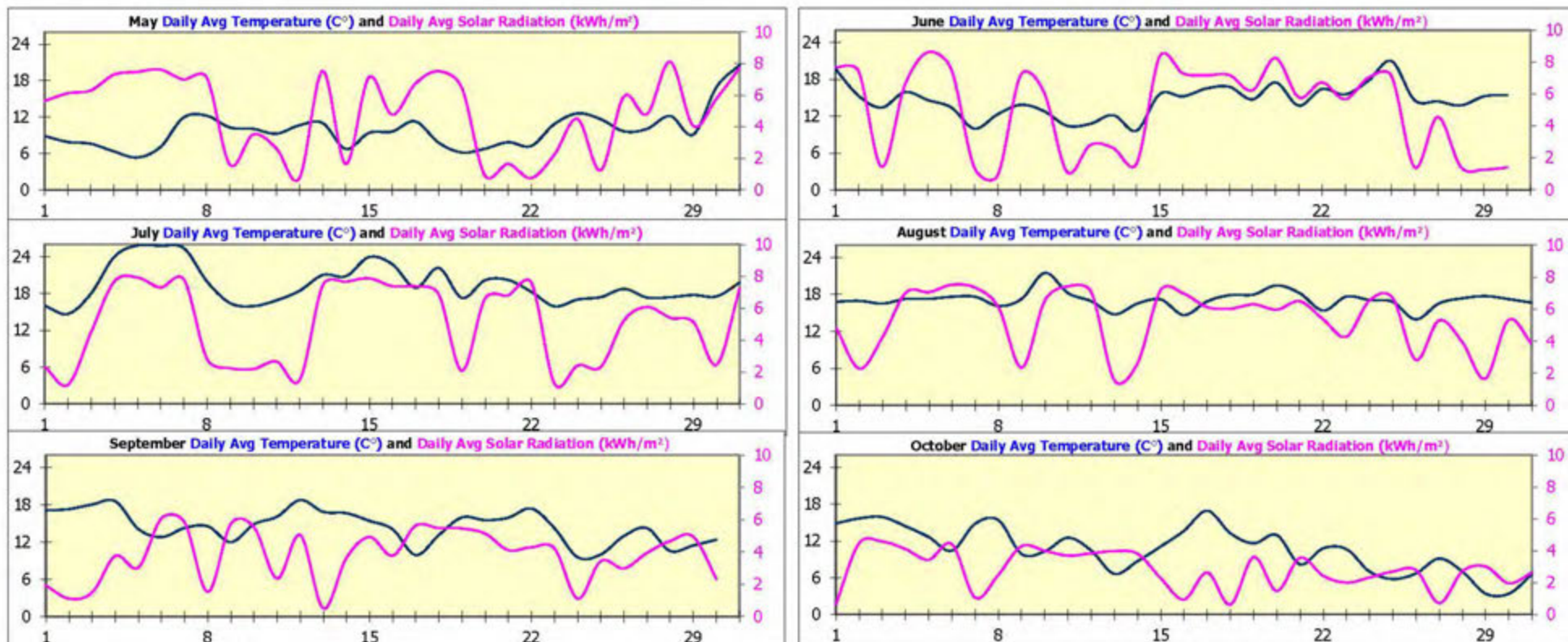
South West NS Temperature and Solar Radiation Study

Station Description

| | | | | |
|-------------|--------------------|-----|-----------------------|-------------|
| Station ID: | LI1 | (O) | Easting: | 347516.063 |
| Location: | East Port L'Hebert | | Northing: | 4853123.558 |
| County: | Queens | | Height (m): | 25.64 |
| Contact: | Dirk Van Loon | | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/12/2011 | | | |



2013 Temperature and Solar Radiation Summary for Station LI1

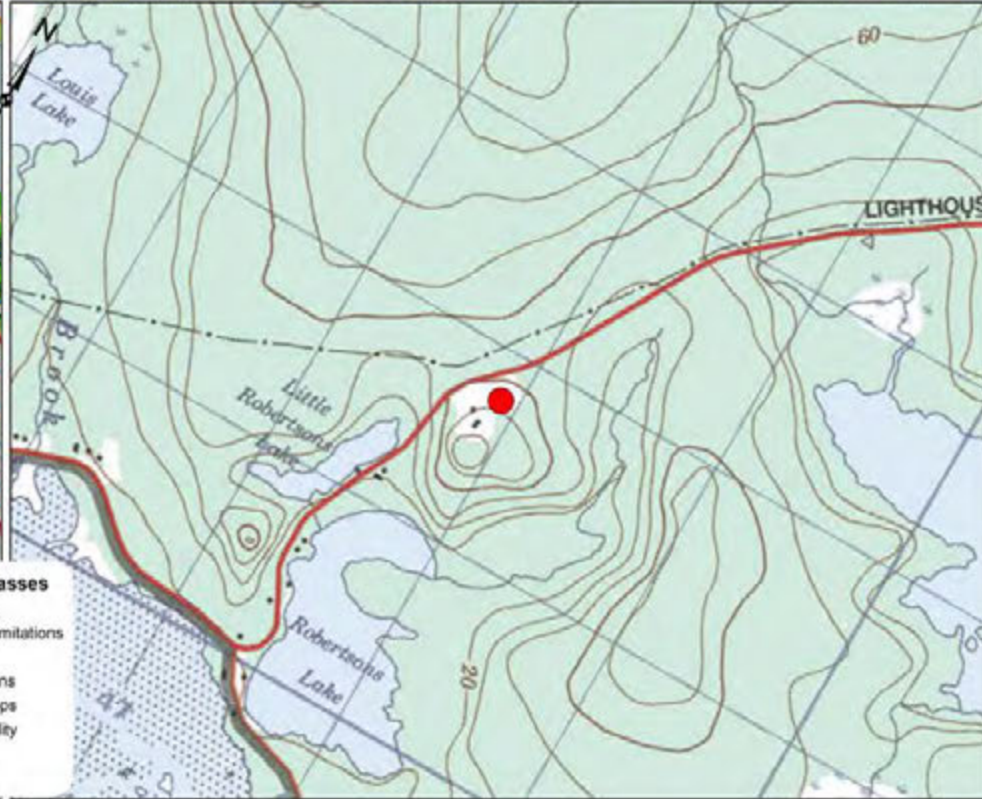
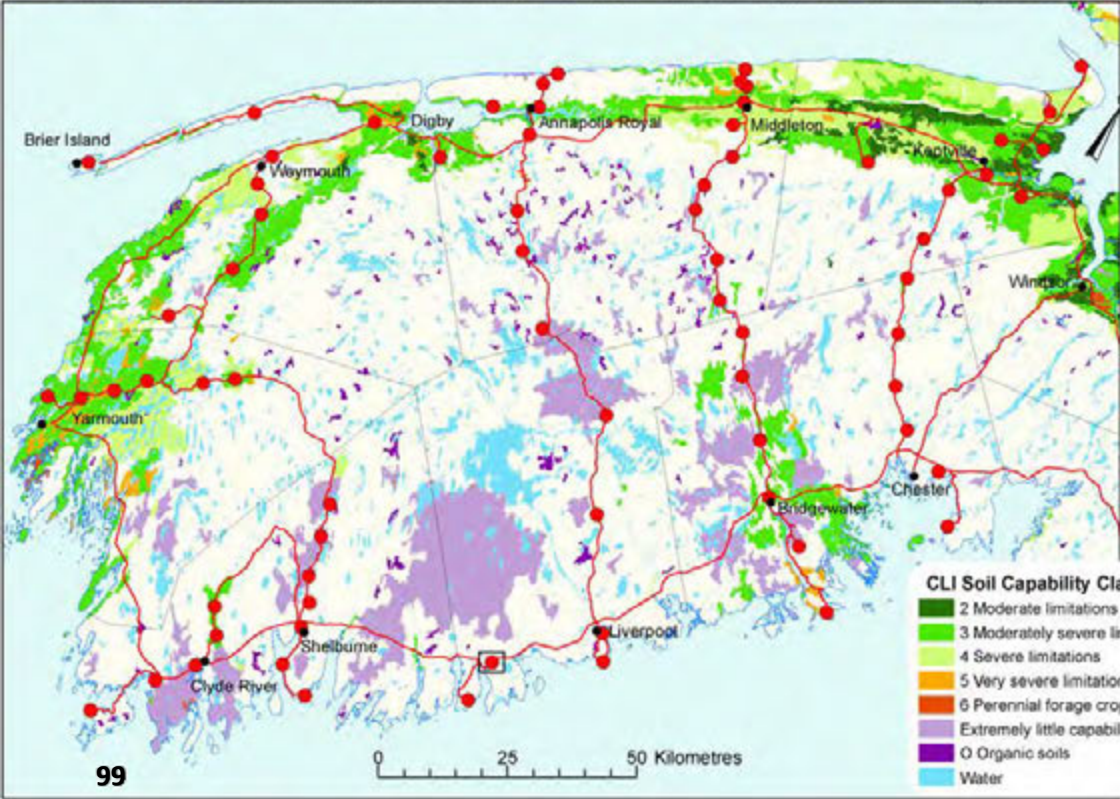


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|--|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 12, 2011 | January | 6 [0] | 0 [0] | -18.12 | 10.91 | -2.94 | -4.01 | 45.37 | 1.46 | 1.38 |
| | February | 0 [0] | 0 [0] | -17.08 | 7.89 | -1.66 | -2.85 | 58.43 | 2.09 | 2.09 |
| | March | 3 [0] | 0 [0] | -10.27 | 13.19 | 1.49 | 0.94 | 97.11 | 3.13 | 3.08 |
| | April | 41 [0] | 0 [0] | -4.50 | 16.18 | 5.06 | 5.17 | 121.97 | 4.07 | 4.23 |
| Frost Free Start: May 06, 2013 06:51 | May | 166 [151] | 45 [45] | -1.07 | 29.86 | 9.84 | 10.87 | 154.03 | 4.97 | 4.84 |
| | June | 301 [301] | 151 [151] | 7.49 | 31.51 | 14.62 | 15.57 | 151.51 | 5.05 | 4.78 |
| | July | 461 [461] | 306 [306] | 11.39 | 33.08 | 19.41 | 20.09 | 156.73 | 5.06 | 4.93 |
| Frost Free End: November 13, 2013 04:21 | August | 391 [391] | 236 [236] | 8.44 | 29.64 | 17.09 | 17.86 | 166.59 | 5.37 | 5.31 |
| | September | 303 [303] | 154 [154] | 4.82 | 26.96 | 14.50 | 14.43 | 115.31 | 3.84 | 3.48 |
| Frost Free Duration: 190.9 days | October | 179 [179] | 58 [58] | -1.64 | 23.35 | 10.68 | 9.65 | 88.10 | 2.84 | 2.96 |
| | November | 43 [27] | 9 [8] | -10.58 | 15.46 | 4.18 | 3.61 | 40.36 | 1.35 | 1.25 |
| | December | 7 [0] | 0 [0] | -15.14 | 11.71 | -0.77 | -2.03 | 26.20 | 0.85 | 0.79 |
| | Totals, Averages or Extremes | 1901 [1813] | 959 [958] | -18.12 | 33.08 | 7.63 | 7.44 | 1,221.71 | 40.08 | 39.12 |

South West NS Temperature and Solar Radiation Study

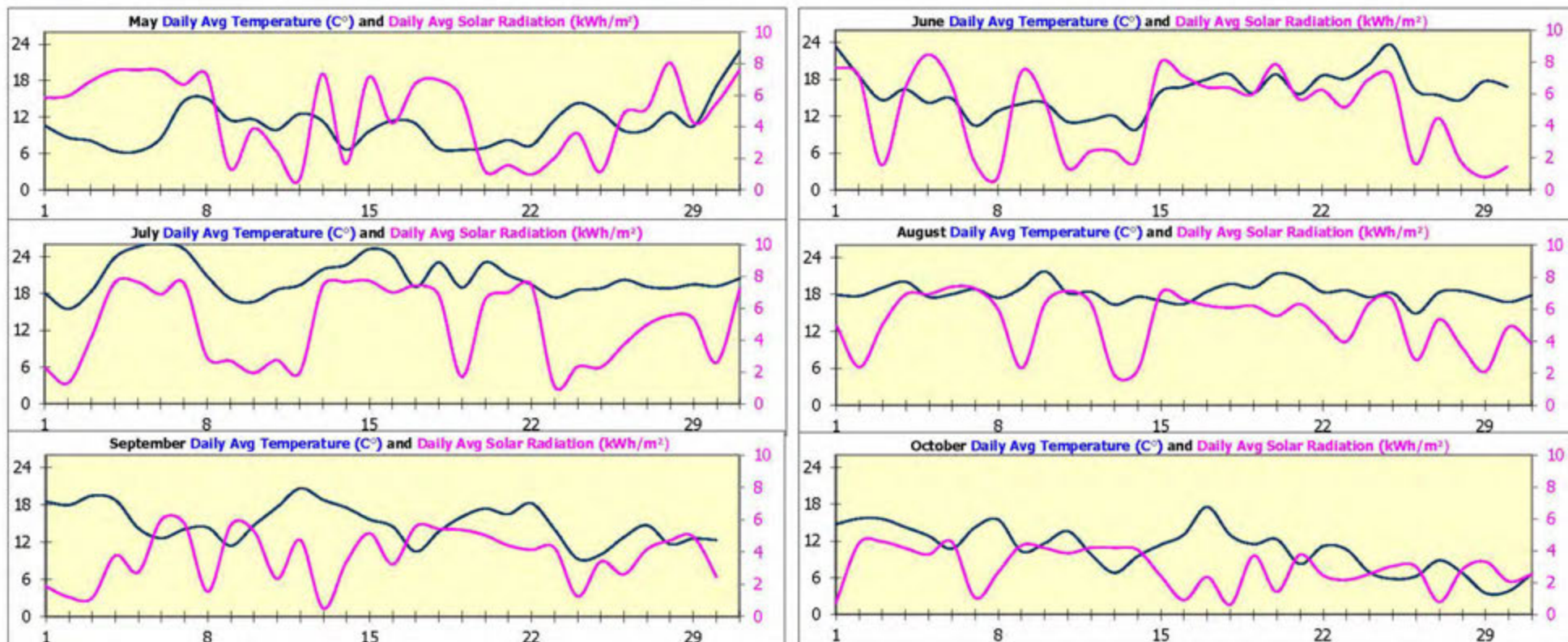
Station Description

Station ID: LI2 (O)
Location: Robertson Loop Easting: 347904.798
County: Queens Northing: 4861753.32
Contact: C. & D. Robertson Height (m): 60.83
Deployment: 5/12/2011 [UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station LI2

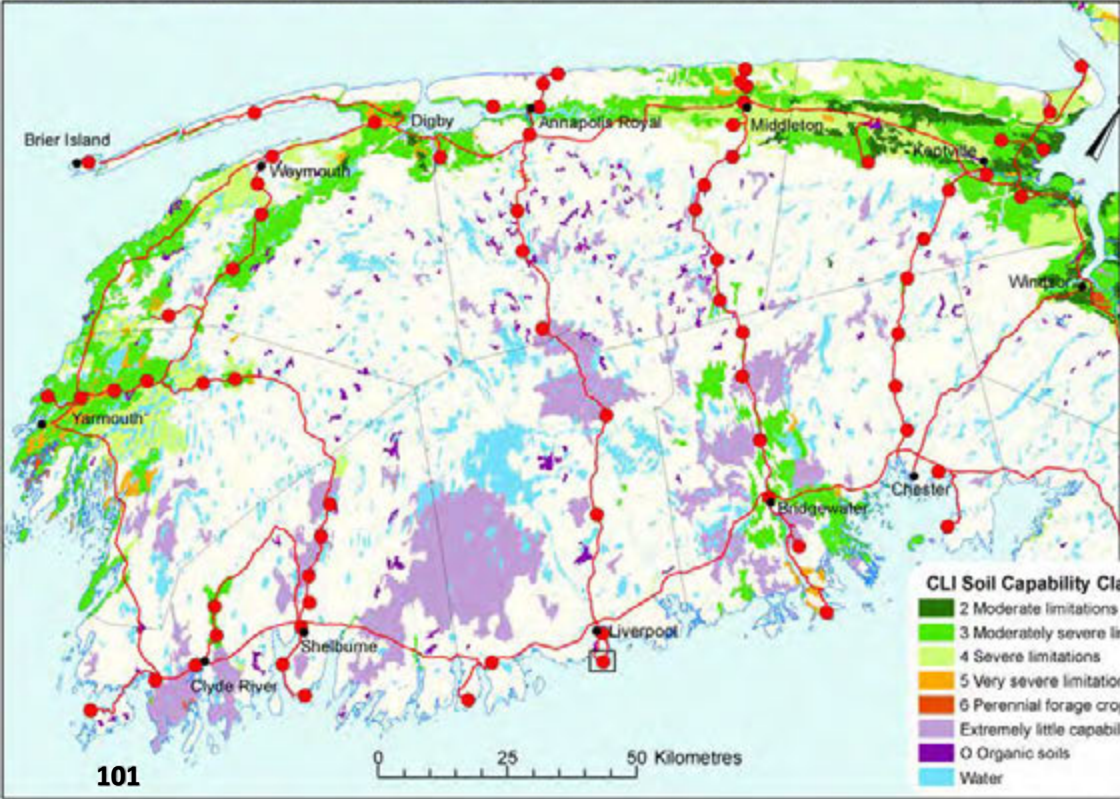


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|--|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 12, 2011 | January | 6 [0] | 0 [0] | -19.15 | 11.35 | -3.22 | -4.01 | 49.14 | 1.59 | 1.38 |
| | February | 0 [0] | 0 [0] | -19.24 | 8.54 | -1.98 | -2.85 | 61.69 | 2.20 | 2.09 |
| | March | 5 [0] | 0 [0] | -10.76 | 12.61 | 1.39 | 0.94 | 96.47 | 3.11 | 3.08 |
| | April | 50 [0] | 0 [0] | -5.42 | 17.41 | 5.30 | 5.17 | 120.04 | 4.00 | 4.23 |
| Frost Free Start: May 06, 2013 06:25 | May | 185 [166] | 59 [59] | -0.79 | 30.85 | 10.67 | 10.87 | 148.92 | 4.80 | 4.84 |
| | June | 341 [341] | 191 [191] | 7.39 | 32.38 | 15.98 | 15.57 | 144.06 | 4.80 | 4.78 |
| | July | 494 [494] | 339 [339] | 12.75 | 33.68 | 20.52 | 20.09 | 150.78 | 4.86 | 4.93 |
| Frost Free End: November 13, 2013 02:31 | August | 432 [432] | 277 [277] | 10.59 | 28.49 | 18.31 | 17.86 | 161.41 | 5.21 | 5.31 |
| | September | 320 [320] | 171 [171] | 4.38 | 27.82 | 15.03 | 14.43 | 111.99 | 3.73 | 3.48 |
| Frost Free Duration: 190.84 days | October | 183 [183] | 61 [61] | -0.42 | 23.23 | 10.72 | 9.65 | 90.45 | 2.92 | 2.96 |
| | November | 47 [29] | 11 [11] | -10.06 | 16.68 | 4.06 | 3.61 | 42.68 | 1.42 | 1.25 |
| | December | 7 [0] | 0 [0] | -15.95 | 11.95 | -1.24 | -2.03 | 27.83 | 0.90 | 0.79 |
| | Totals, Averages or Extremes | 2070 [1965] | 1109 [1109] | -19.24 | 33.68 | 7.96 | 7.44 | 1,205.46 | 39.55 | 39.12 |

South West NS Temperature and Solar Radiation Study

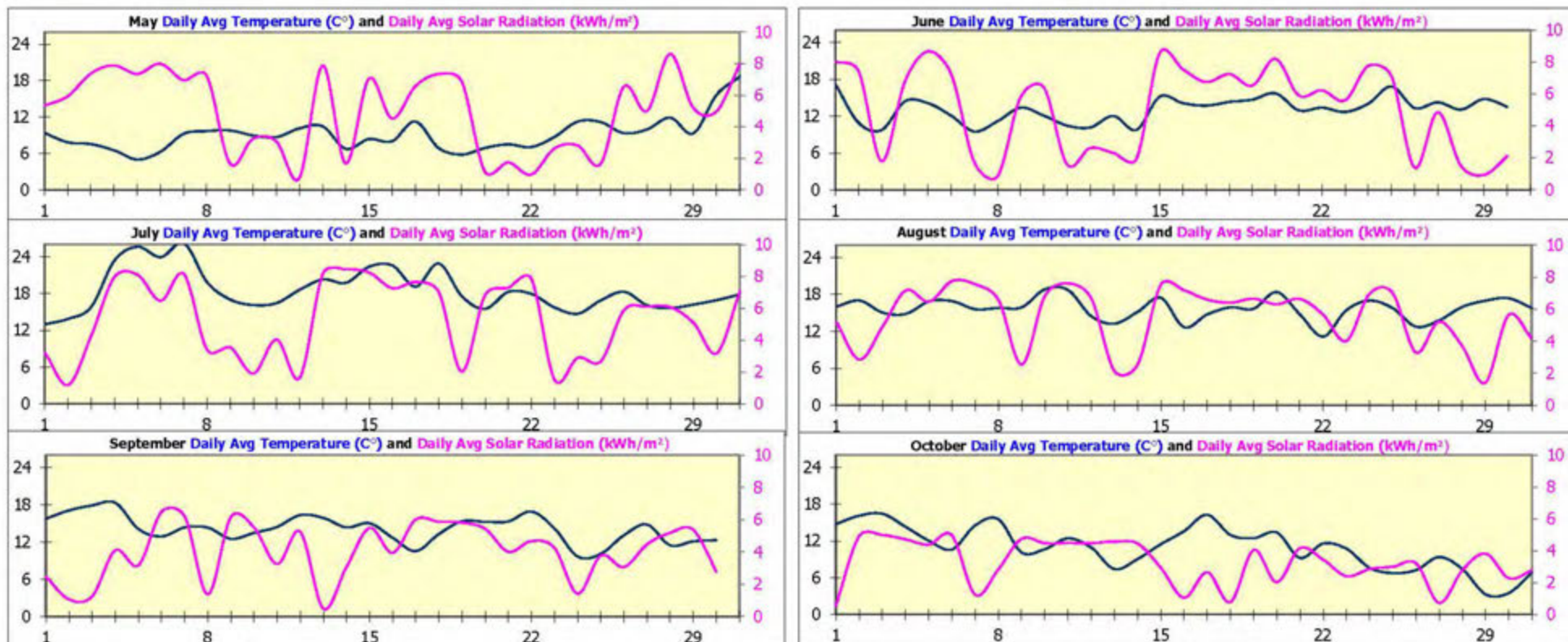
Station Description

| | | | |
|-------------|------------------|-----------------------|-------------|
| Station ID: | LI3 (O) | Easting: | 366459.618 |
| Location: | Strawberry Point | Northing: | 4872666.091 |
| County: | Queens | Height (m): | 15.97 |
| Contact: | Betty Richardson | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/4/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station LI3

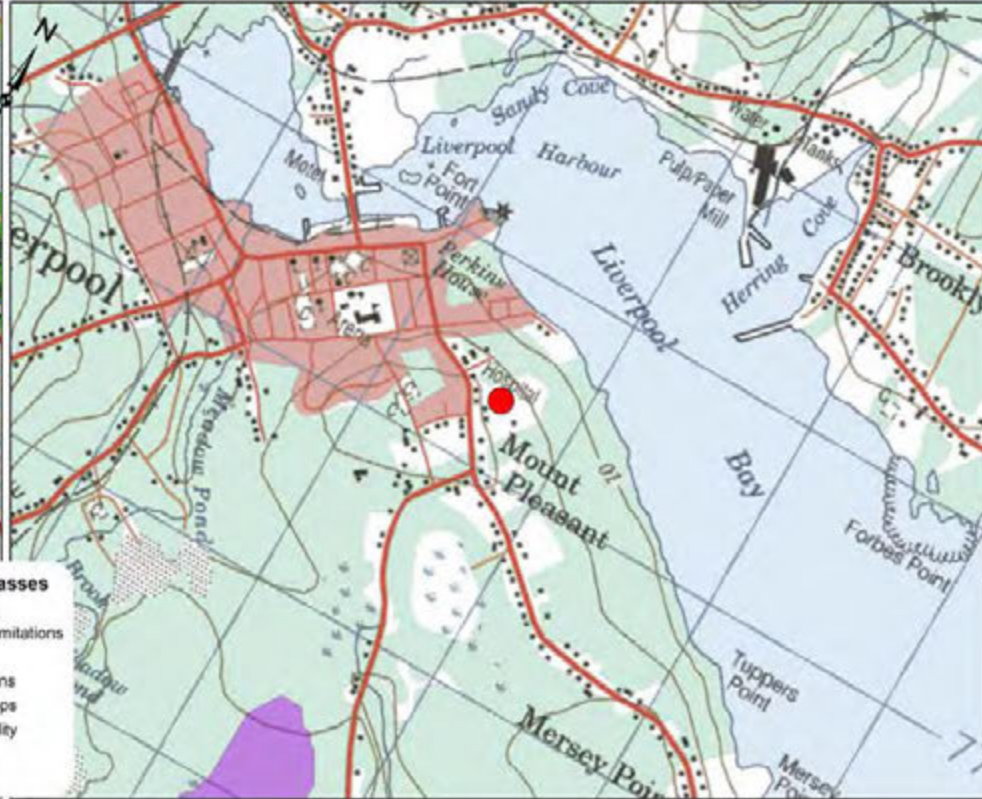
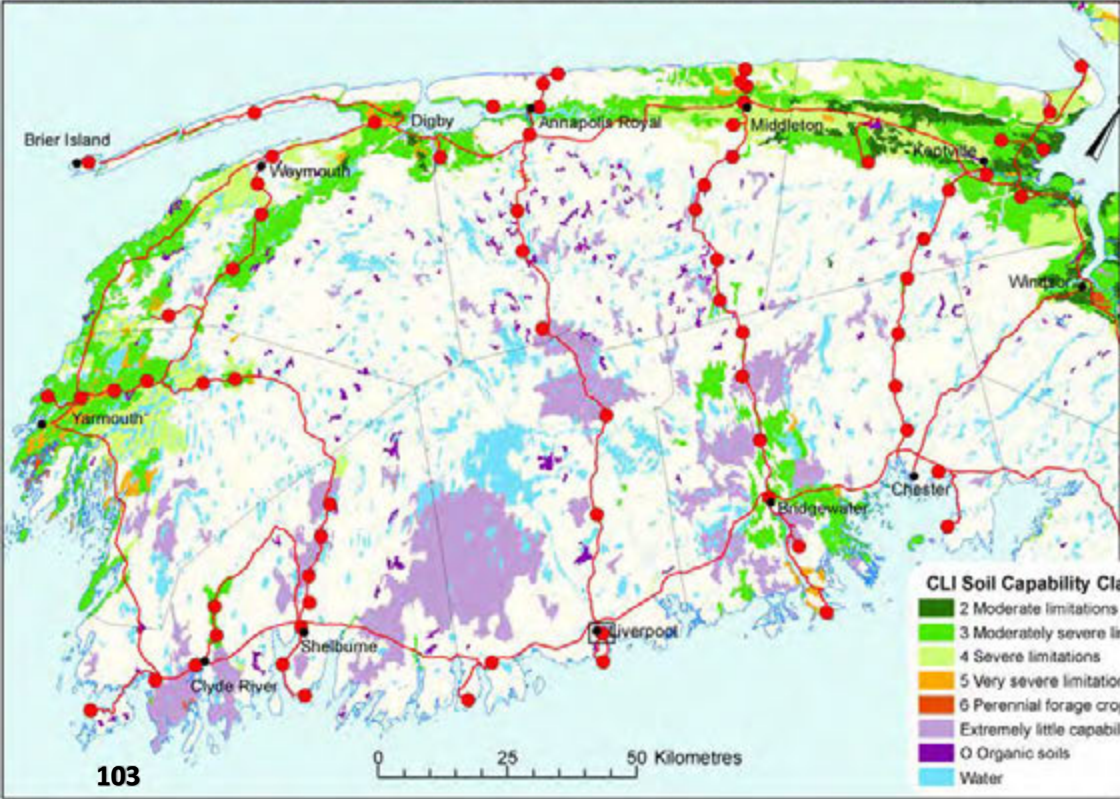


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 04, 2011 | January | 6 [0] | 0 [0] | -17.34 | 11.05 | -2.98 | -4.01 | 55.20 | 1.78 | 1.38 |
| | February | 0 [0] | 0 [0] | -17.21 | 8.89 | -1.63 | -2.85 | 65.94 | 2.36 | 2.09 |
| | March | 2 [0] | 0 [0] | -10.48 | 12.51 | 1.39 | 0.94 | 99.38 | 3.21 | 3.08 |
| | April | 37 [15] | 0 [0] | -5.08 | 15.08 | 4.86 | 5.17 | 124.31 | 4.14 | 4.23 |
| Frost Free Start: April 22, 2013 06:35 | May | 140 [140] | 25 [25] | 0.88 | 28.54 | 9.16 | 10.87 | 149.75 | 4.83 | 4.84 |
| | June | 265 [265] | 116 [116] | 7.80 | 25.60 | 13.13 | 15.57 | 145.58 | 4.85 | 4.78 |
| | July | 435 [435] | 280 [280] | 10.49 | 32.90 | 18.52 | 20.09 | 158.27 | 5.11 | 4.93 |
| Frost Free End: October 30, 2013 07:15 | August | 349 [349] | 194 [194] | 8.99 | 28.20 | 15.68 | 17.86 | 164.45 | 5.31 | 5.31 |
| | September | 288 [288] | 138 [138] | 5.08 | 26.18 | 14.14 | 14.43 | 116.78 | 3.89 | 3.48 |
| | October | 184 [182] | 58 [58] | -2.02 | 23.98 | 10.93 | 9.65 | 96.83 | 3.12 | 2.96 |
| Frost Free Duration: 191.03 days | November | 45 [0] | 9 [0] | -9.47 | 15.34 | 4.37 | 3.61 | 46.79 | 1.56 | 1.25 |
| | December | 6 [0] | 0 [0] | -15.14 | 11.76 | -0.80 | -2.03 | 31.45 | 1.01 | 0.79 |
| | Totals, Averages or Extremes | 1757 [1674] | 820 [811] | -17.34 | 32.90 | 7.23 | 7.44 | 1,254.73 | 41.17 | 39.12 |

South West NS Temperature and Solar Radiation Study

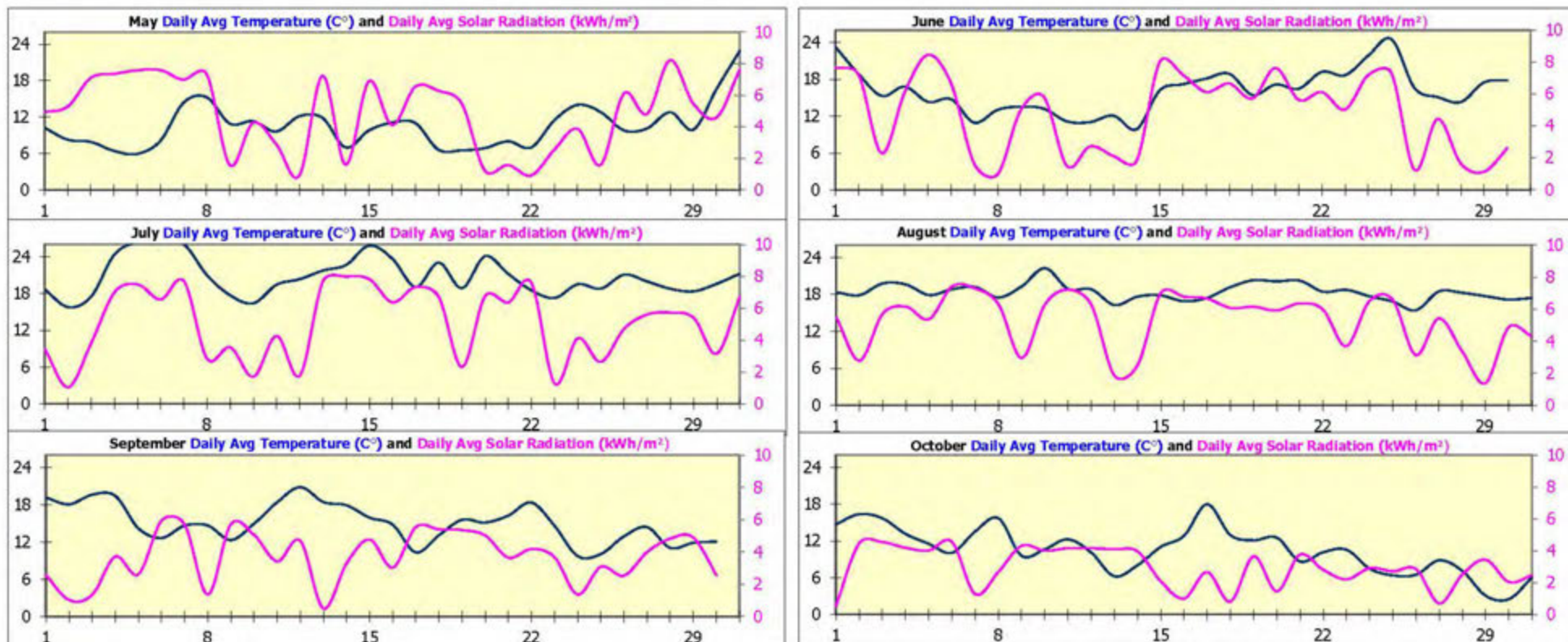
Station Description

| | | | | |
|-------------|----------------|-----|-----------------------|-------------|
| Station ID: | LI4 | (O) | Easting: | 363616.803 |
| Location: | Liverpool | | Northing: | 4877340.694 |
| County: | Queens | | Height (m): | 30.73 |
| Contact: | Larry Cochrane | | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/12/2011 | | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station LI4

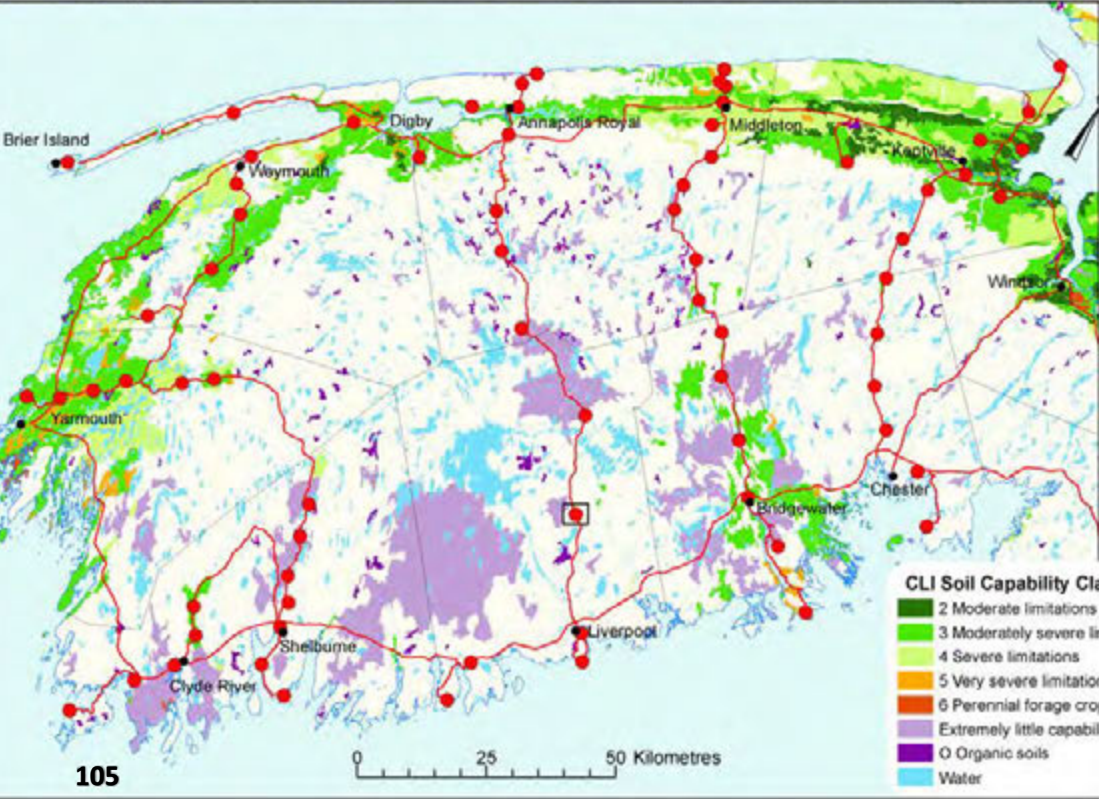


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 12, 2011 | January | 7 [0] | 0 [0] | -17.73 | 11.88 | -3.32 | -4.01 | 48.02 | 1.55 | 1.38 |
| | February | 0 [0] | 0 [0] | -18.70 | 8.89 | -2.05 | -2.85 | 60.08 | 2.15 | 2.09 |
| | March | 2 [0] | 0 [0] | -10.37 | 11.90 | 1.33 | 0.94 | 94.42 | 3.05 | 3.08 |
| | April | 48 [0] | 2 [0] | -5.33 | 19.08 | 5.34 | 5.17 | 120.98 | 4.03 | 4.23 |
| Frost Free Start: May 06, 2013 06:30 | May | 181 [163] | 57 [57] | -0.54 | 31.51 | 10.54 | 10.87 | 146.84 | 4.74 | 4.84 |
| | June | 346 [346] | 196 [196] | 7.82 | 33.68 | 16.11 | 15.57 | 140.33 | 4.68 | 4.78 |
| | July | 501 [501] | 346 [346] | 12.73 | 33.60 | 20.75 | 20.09 | 153.49 | 4.95 | 4.93 |
| Frost Free End: October 30, 2013 01:00 | August | 430 [430] | 275 [275] | 8.82 | 29.27 | 18.40 | 17.86 | 159.99 | 5.16 | 5.31 |
| | September | 322 [322] | 172 [172] | 5.38 | 28.74 | 15.07 | 14.43 | 108.34 | 3.61 | 3.48 |
| | October | 175 [174] | 56 [56] | -3.04 | 24.36 | 10.47 | 9.65 | 88.91 | 2.87 | 2.96 |
| Frost Free Duration: 176.77 days | November | 46 [0] | 13 [0] | -9.44 | 17.75 | 4.22 | 3.61 | 41.42 | 1.38 | 1.25 |
| | December | 7 [0] | 0 [0] | -16.04 | 12.44 | -1.11 | -2.03 | 27.52 | 0.89 | 0.79 |
| | Totals, Averages or Extremes | 2065 [1936] | 1117 [1102] | -18.70 | 33.68 | 7.98 | 7.44 | 1,190.34 | 39.05 | 39.12 |

South West NS Temperature and Solar Radiation Study

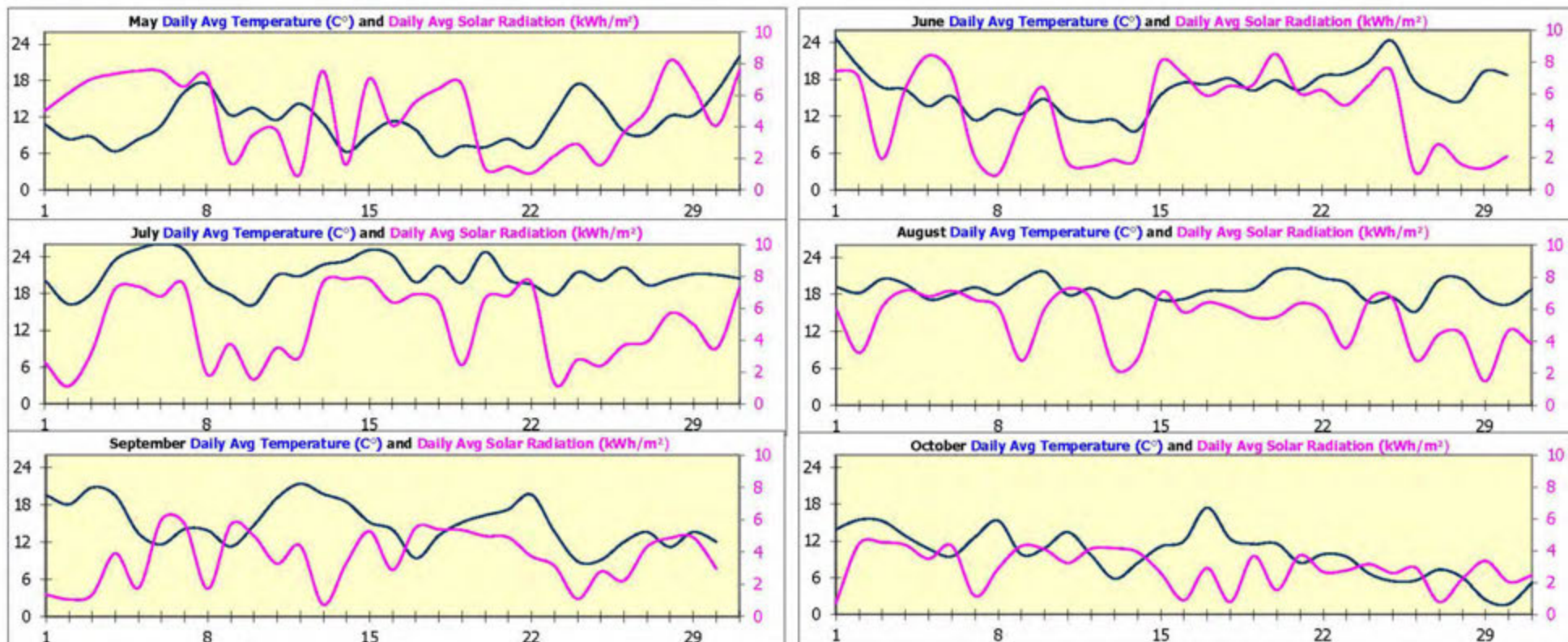
Station Description

Station ID: LI5 (O)
Location: Middlefield Easting: 351179.682
County: Queens Northing: 4896795.535
Contact: Hillsview Acres Height (m): 113.83
Deployment: 5/4/2011 [UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station LI5

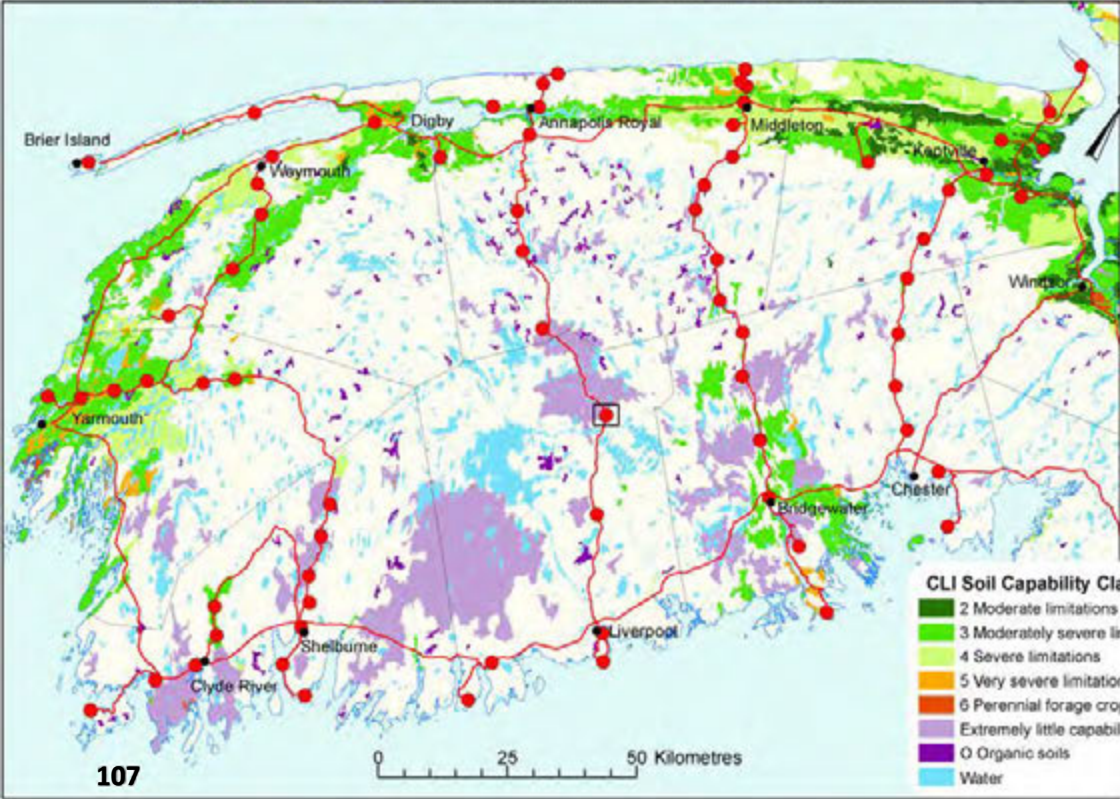


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 04, 2011 | January | 6 [0] | 0 [0] | -17.94 | 13.35 | -4.36 | -4.01 | 49.18 | 1.59 | 1.38 |
| | February | 0 [0] | 0 [0] | -20.93 | 7.42 | -3.17 | -2.85 | 62.75 | 2.24 | 2.09 |
| | March | 3 [0] | 0 [0] | -11.58 | 13.16 | 0.74 | 0.94 | 96.13 | 3.10 | 3.08 |
| | April | 48 [0] | 4 [0] | -5.82 | 20.60 | 5.19 | 5.17 | 126.93 | 4.23 | 4.23 |
| Frost Free Start: May 19, 2013 02:05 | May | 200 [90] | 70 [37] | -1.21 | 29.99 | 11.19 | 10.87 | 149.12 | 4.81 | 4.84 |
| | June | 353 [353] | 204 [204] | 7.22 | 33.26 | 16.30 | 15.57 | 142.89 | 4.76 | 4.78 |
| Frost Free End: October 29, 2013 23:30 | July | 506 [506] | 351 [351] | 12.05 | 33.08 | 21.15 | 20.09 | 151.26 | 4.88 | 4.93 |
| | August | 438 [438] | 283 [283] | 7.44 | 29.19 | 18.79 | 17.86 | 164.67 | 5.31 | 5.31 |
| | September | 315 [315] | 168 [168] | 3.25 | 27.70 | 15.00 | 14.43 | 110.11 | 3.67 | 3.48 |
| Frost Free Duration: 163.89 days | October | 166 [165] | 51 [51] | -4.08 | 23.57 | 9.92 | 9.65 | 91.11 | 2.94 | 2.96 |
| | November | 47 [0] | 13 [0] | -9.88 | 19.15 | 3.45 | 3.61 | 39.72 | 1.32 | 1.25 |
| | December | 5 [0] | 0 [0] | -17.77 | 12.29 | -2.37 | -2.03 | 27.54 | 0.89 | 0.79 |
| | Totals, Averages or Extremes | 2087 [1867] | 1144 [1094] | -20.93 | 33.26 | 7.65 | 7.44 | 1,211.41 | 39.75 | 39.12 |

South West NS Temperature and Solar Radiation Study

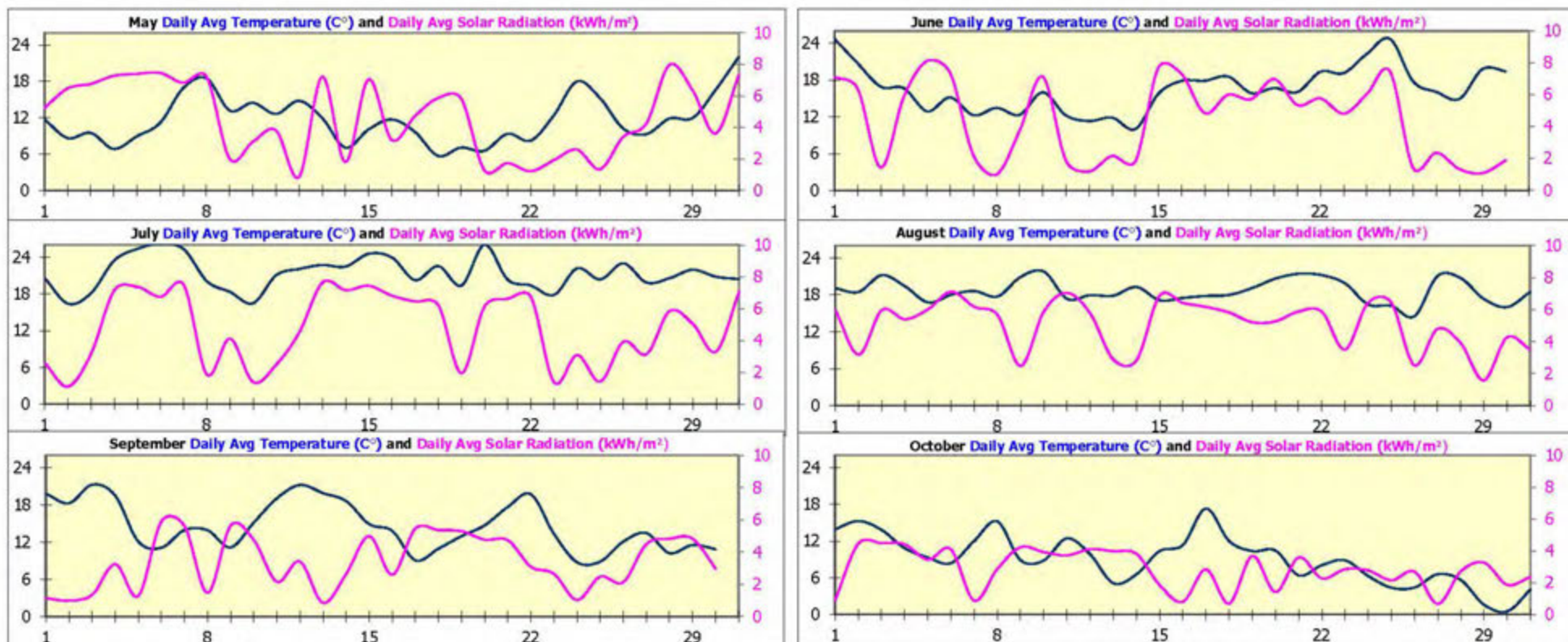
Station Description

| | | | |
|-------------|------------------|-----------------------|-------------|
| Station ID: | LI6 (O) | Easting: | 343189.814 |
| Location: | South Brookfield | Northing: | 4914288.717 |
| County: | Queens | Height (m): | 85.94 |
| Contact: | Mel Waterman | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/4/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station LI6

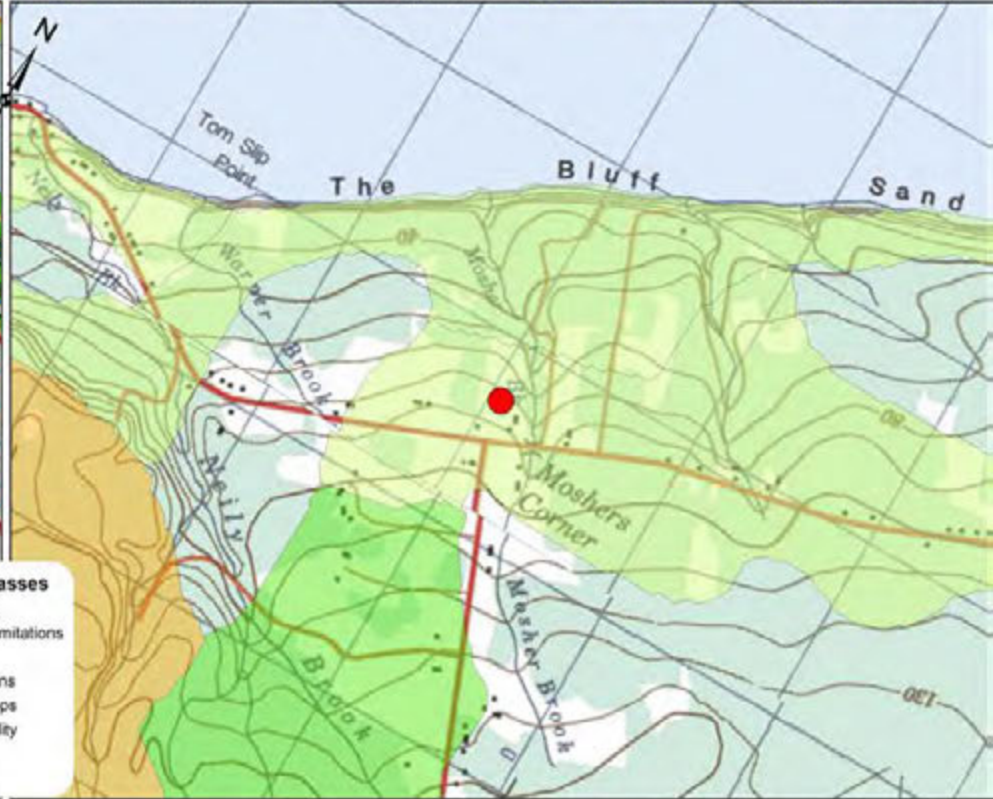
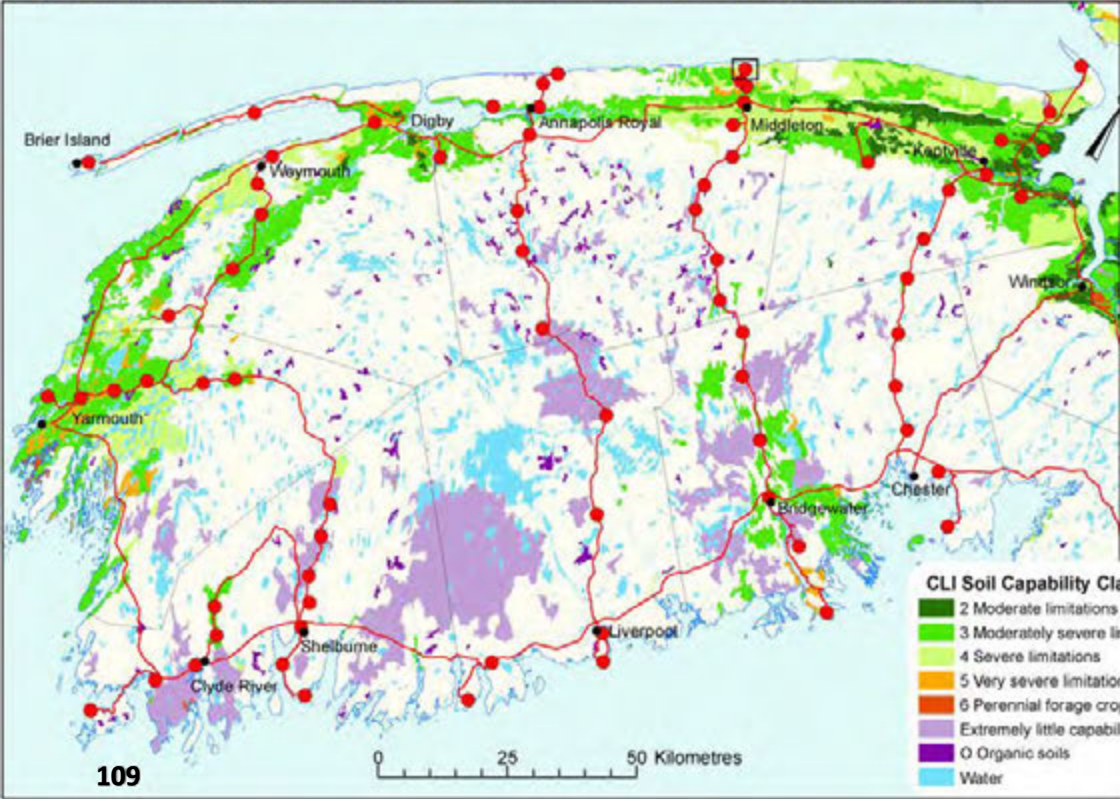


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 04, 2011 | January | 5 [0] | 0 [0] | -24.00 | 14.58 | -5.08 | -4.01 | 45.63 | 1.47 | 1.38 |
| | February | 0 [0] | 0 [0] | -23.09 | 8.24 | -3.28 | -2.85 | 59.49 | 2.12 | 2.09 |
| | March | 3 [0] | 0 [0] | -11.36 | 15.34 | 0.81 | 0.94 | 91.67 | 2.96 | 3.08 |
| | April | 49 [0] | 7 [0] | -7.25 | 22.92 | 5.46 | 5.17 | 123.27 | 4.11 | 4.23 |
| Frost Free Start: May 19, 2013 02:15 | May | 214 [91] | 80 [37] | -2.25 | 31.56 | 11.69 | 10.87 | 143.65 | 4.63 | 4.84 |
| | June | 355 [355] | 205 [205] | 3.98 | 34.57 | 16.63 | 15.57 | 134.08 | 4.47 | 4.78 |
| | July | 512 [512] | 357 [357] | 9.04 | 33.89 | 21.36 | 20.09 | 147.78 | 4.77 | 4.93 |
| Frost Free End: October 13, 2013 04:50 | August | 423 [423] | 268 [268] | 4.38 | 30.32 | 18.64 | 17.86 | 157.48 | 5.08 | 5.31 |
| | September | 293 [293] | 147 [147] | 0.11 | 27.50 | 14.62 | 14.43 | 102.78 | 3.43 | 3.48 |
| | October | 138 [78] | 34 [20] | -6.29 | 25.77 | 9.01 | 9.65 | 88.17 | 2.84 | 2.96 |
| Frost Free Duration: 147.11 days | November | 39 [0] | 10 [0] | -10.83 | 19.15 | 3.10 | 3.61 | 35.79 | 1.19 | 1.25 |
| | December | 4 [0] | 0 [0] | -18.47 | 12.20 | -2.77 | -2.03 | 24.01 | 0.78 | 0.79 |
| | Totals, Averages or Extremes | 2035 [1752] | 1108 [1034] | -24.00 | 34.57 | 7.51 | 7.44 | 1,153.80 | 37.85 | 39.12 |

South West NS Temperature and Solar Radiation Study

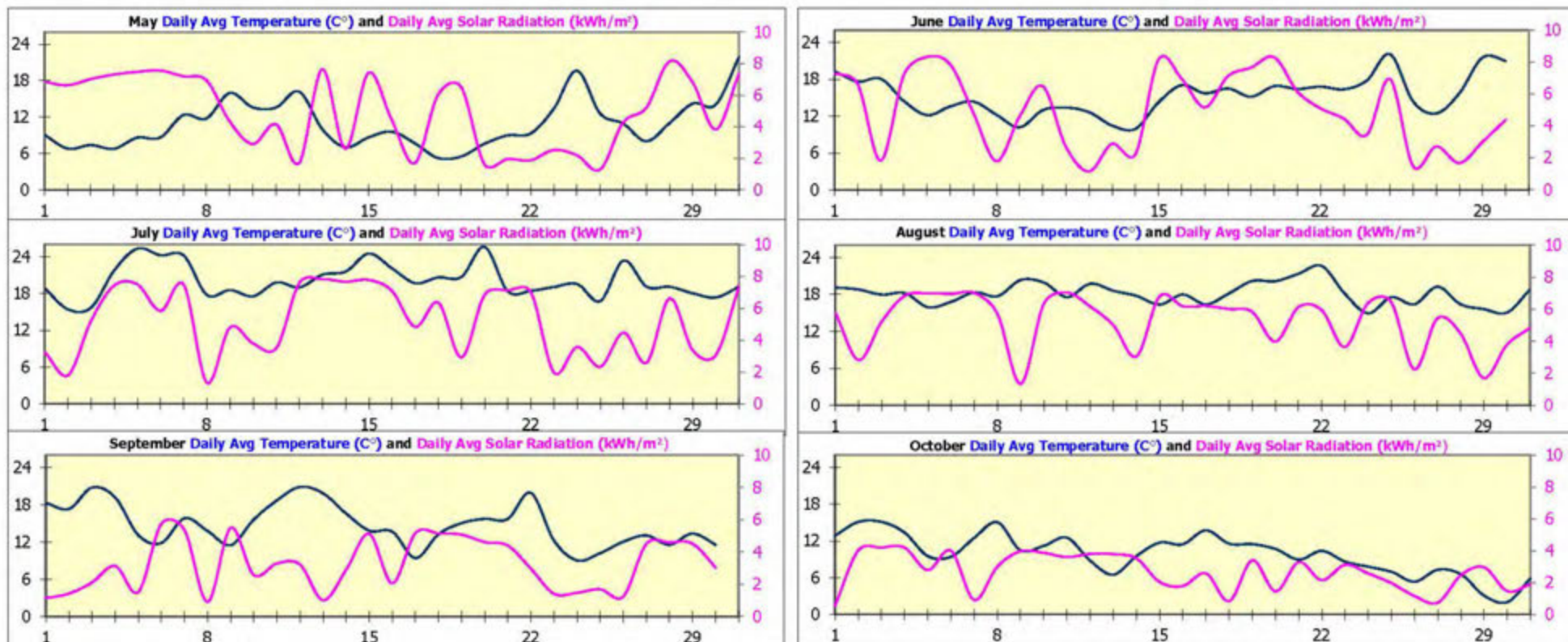
Station Description

| | | | |
|-------------|----------------|-----------------------|-------------|
| Station ID: | MI1 (O) | Easting: | 333045.121 |
| Location: | Moshers Corner | Northing: | 4985700.586 |
| County: | Annapolis | Height (m): | 85.83 |
| Contact: | David Colville | [UTM Zone 20, NAD 83] | |
| Deployment: | 8/13/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station MI1

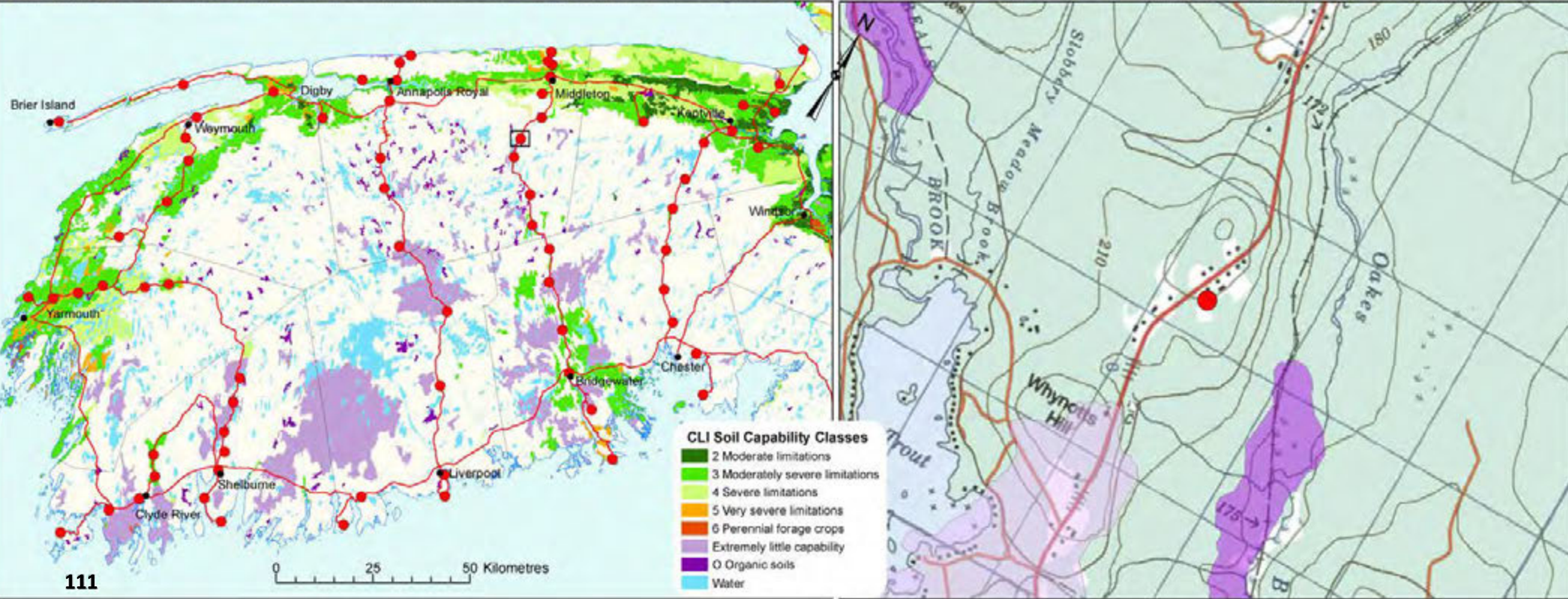


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: August 13, 2011 | January | 8 [0] | 0 [0] | -17.30 | 16.73 | -4.26 | -4.01 | 37.14 | 1.20 | 1.38 |
| | February | 0 [0] | 0 [0] | -19.47 | 8.82 | -3.27 | -2.85 | 54.25 | 1.94 | 2.09 |
| | March | 3 [0] | 0 [0] | -12.09 | 11.32 | 0.65 | 0.94 | 95.86 | 3.09 | 3.08 |
| | April | 42 [7] | 8 [0] | -4.53 | 21.82 | 4.92 | 5.17 | 136.11 | 4.54 | 4.23 |
| Frost Free Start: April 28, 2013 06:10 | May | 184 [184] | 61 [61] | 0.19 | 26.57 | 10.83 | 10.87 | 156.78 | 5.06 | 4.84 |
| | June | 319 [319] | 169 [169] | 6.71 | 27.43 | 15.40 | 15.57 | 151.81 | 5.06 | 4.78 |
| | July | 466 [466] | 311 [311] | 12.92 | 29.54 | 20.07 | 20.09 | 163.45 | 5.27 | 4.93 |
| Frost Free End: October 30, 2013 00:10 | August | 408 [408] | 253 [253] | 9.48 | 28.74 | 18.13 | 17.86 | 165.79 | 5.35 | 5.31 |
| | September | 299 [299] | 150 [150] | 4.19 | 26.65 | 14.78 | 14.43 | 99.10 | 3.30 | 3.48 |
| | October | 157 [157] | 44 [44] | -2.36 | 20.58 | 9.87 | 9.65 | 83.93 | 2.71 | 2.96 |
| Frost Free Duration: 184.75 days | November | 46 [0] | 10 [0] | -6.80 | 20.15 | 3.83 | 3.61 | 31.66 | 1.06 | 1.25 |
| | December | 4 [0] | 0 [0] | -17.04 | 12.17 | -2.84 | -2.03 | 21.03 | 0.68 | 0.79 |
| | Totals, Averages or Extremes | 1936 [1840] | 1006 [988] | -19.47 | 29.54 | 7.34 | 7.44 | 1,196.91 | 39.25 | 39.12 |

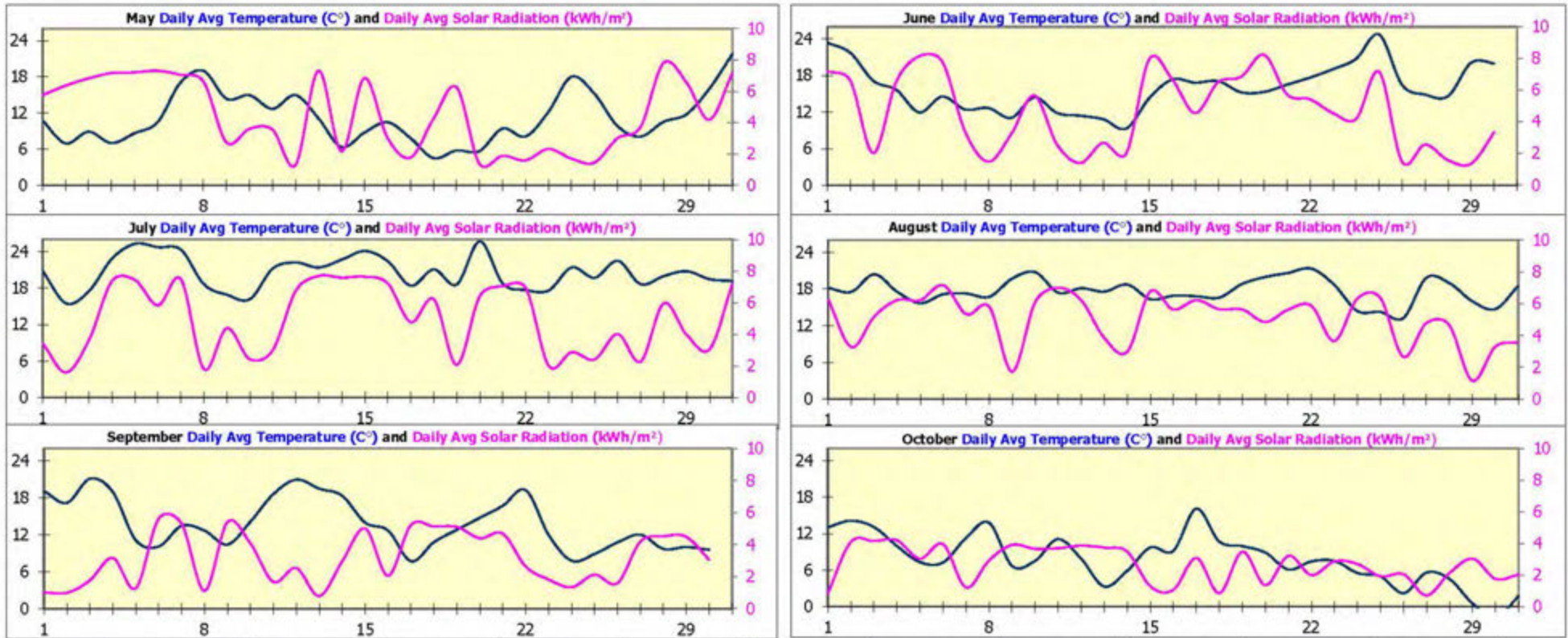
South West NS Temperature and Solar Radiation Study

Station Description

Station ID: MI2 (O)
Location: Albany Easting: 337333.307
County: Annapolis Northing: 4962256.136
Contact: Christine & John Skaling Height (m): 221.82
Deployment: 7/14/2011 [UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station MI2

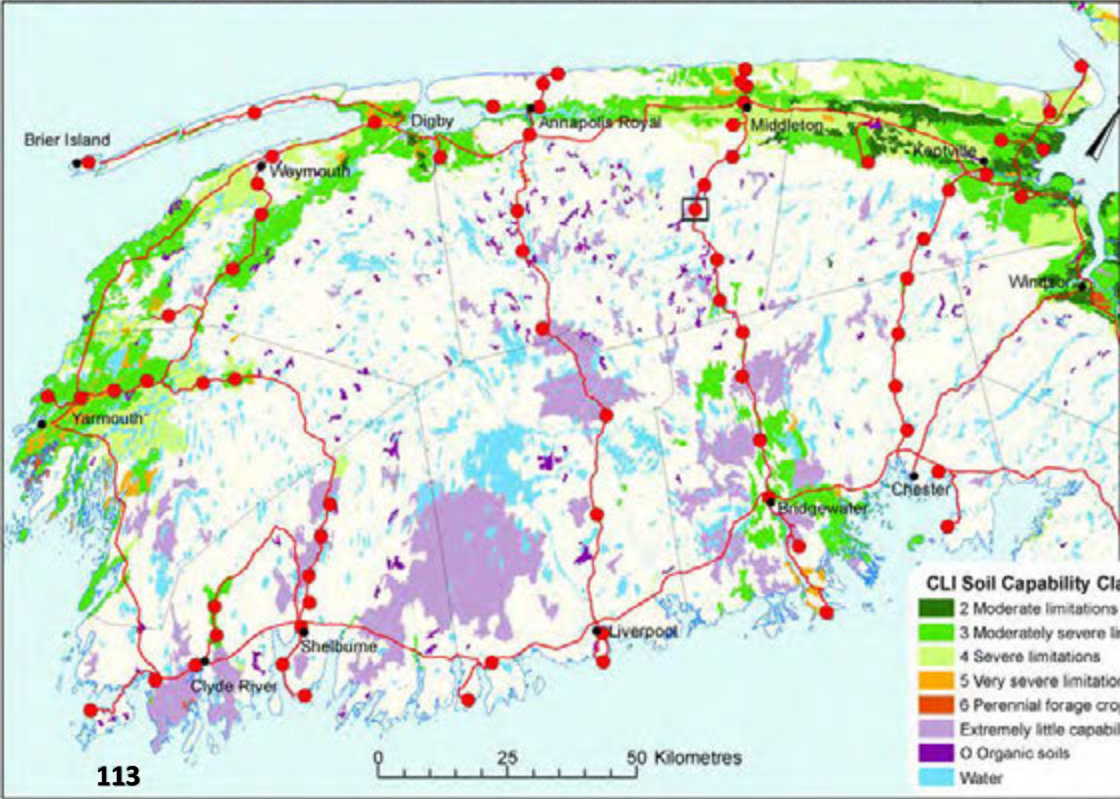


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 14, 2011 | January | 4 [0] | 0 [0] | -26.67 | 13.71 | -6.28 | -4.01 | 35.85 | 1.16 | 1.38 |
| | February | 0 [0] | 0 [0] | -24.49 | 8.72 | -4.74 | -2.85 | 53.37 | 1.91 | 2.09 |
| | March | 2 [0] | 0 [0] | -14.00 | 13.35 | -0.27 | 0.94 | 91.16 | 2.94 | 3.08 |
| | April | 41 [0] | 4 [0] | -7.25 | 22.08 | 4.47 | 5.17 | 124.10 | 4.14 | 4.23 |
| Frost Free Start: May 29, 2013 06:25 | May | 196 [27] | 75 [17] | -3.75 | 30.19 | 11.19 | 10.87 | 143.22 | 4.62 | 4.84 |
| | June | 326 [326] | 177 [177] | 3.30 | 33.73 | 15.97 | 15.57 | 142.18 | 4.74 | 4.78 |
| | July | 476 [476] | 321 [321] | 7.32 | 32.12 | 20.51 | 20.09 | 156.05 | 5.03 | 4.93 |
| Frost Free End: October 13, 2013 00:20 | August | 398 [398] | 243 [243] | 2.37 | 30.17 | 17.70 | 17.86 | 159.84 | 5.16 | 5.31 |
| | September | 272 [272] | 128 [128] | -0.93 | 25.79 | 13.84 | 14.43 | 97.57 | 3.25 | 3.48 |
| Frost Free Duration: 136.75 days | October | 100 [59] | 21 [13] | -8.33 | 23.71 | 7.79 | 9.65 | 84.40 | 2.72 | 2.96 |
| | November | 27 [0] | 5 [0] | -13.66 | 18.79 | 1.97 | 3.61 | 32.07 | 1.07 | 1.25 |
| | December | 2 [0] | 0 [0] | -20.79 | 11.08 | -3.96 | -2.03 | 21.22 | 0.68 | 0.79 |
| | Totals, Averages or Extremes | 1844 [1558] | 974 [899] | -26.67 | 33.73 | 6.52 | 7.44 | 1,141.03 | 37.42 | 39.12 |

South West NS Temperature and Solar Radiation Study

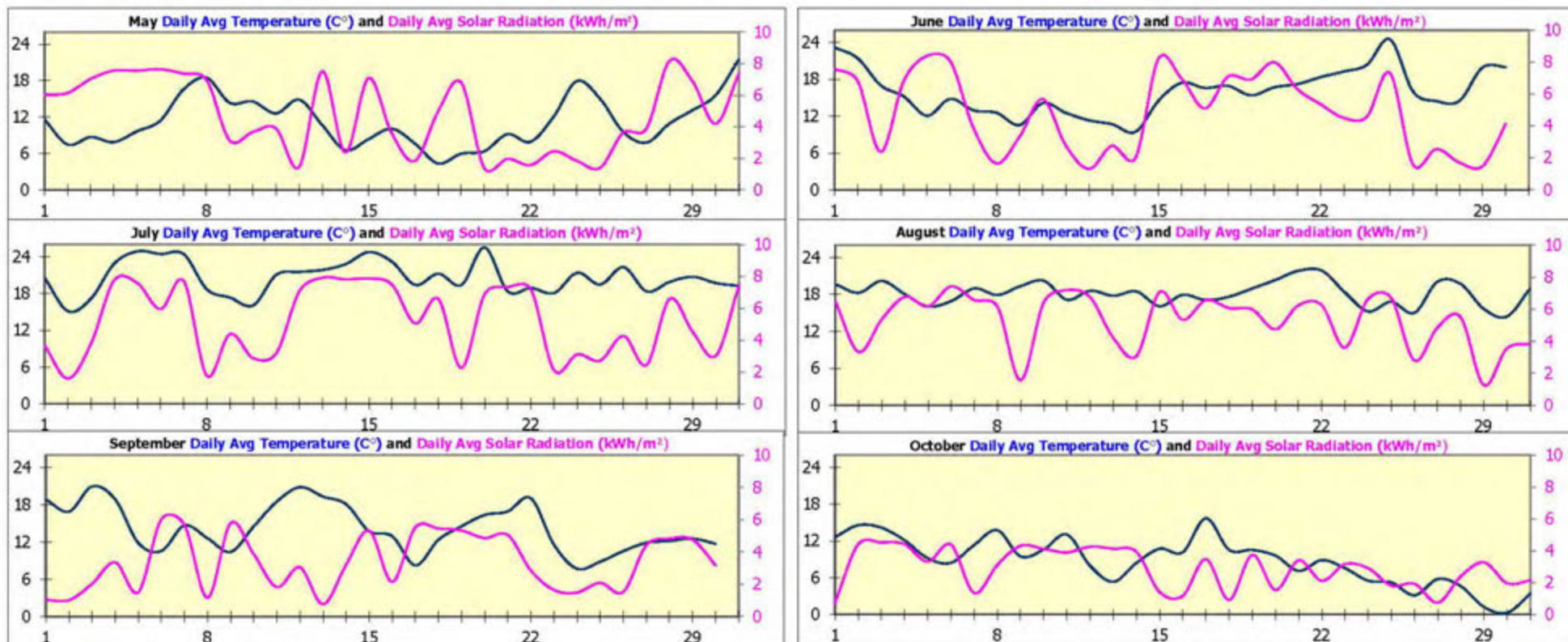
Station Description

| | | | |
|-------------|---------------|-----------------------|-------------|
| Station ID: | MI3 (O) | Easting: | 338242.544 |
| Location: | Squirreltown | Northing: | 4957342.858 |
| County: | Annapolis | Height (m): | 196.96 |
| Contact: | Don McPherson | [UTM Zone 20, NAD 83] | |
| Deployment: | 7/14/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station MI3

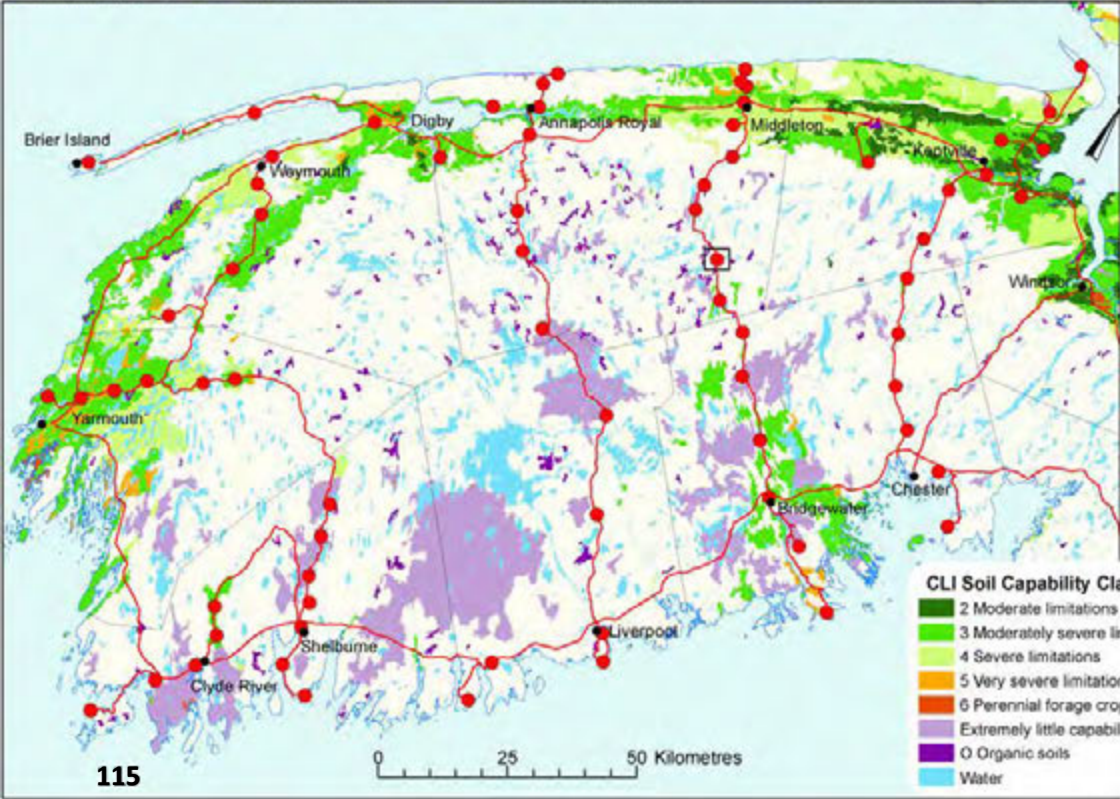


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 14, 2011 | January | 4 [0] | 0 [0] | -19.84 | 13.98 | -5.73 | -4.01 | 39.47 | 1.27 | 1.38 |
| | February | 0 [0] | 0 [0] | -21.87 | 8.00 | -4.32 | -2.85 | 56.81 | 2.03 | 2.09 |
| | March | 2 [0] | 0 [0] | -13.35 | 12.12 | -0.21 | 0.94 | 93.24 | 3.01 | 3.08 |
| | April | 43 [0] | 3 [0] | -5.85 | 20.58 | 4.66 | 5.17 | 128.71 | 4.29 | 4.23 |
| Frost Free Start: May 19, 2013 02:03 | May | 202 [90] | 77 [38] | -0.96 | 28.37 | 11.25 | 10.87 | 146.17 | 4.72 | 4.84 |
| | June | 338 [338] | 189 [189] | 5.90 | 31.92 | 16.00 | 15.57 | 144.18 | 4.81 | 4.78 |
| | July | 489 [489] | 334 [334] | 10.20 | 31.31 | 20.59 | 20.09 | 158.39 | 5.11 | 4.93 |
| Frost Free End: October 29, 2013 23:33 | August | 416 [416] | 261 [261] | 6.10 | 28.87 | 18.17 | 17.86 | 163.25 | 5.27 | 5.31 |
| | September | 285 [285] | 139 [139] | 2.96 | 25.21 | 14.28 | 14.43 | 100.12 | 3.34 | 3.48 |
| | October | 132 [132] | 32 [32] | -4.65 | 22.08 | 8.75 | 9.65 | 88.30 | 2.85 | 2.96 |
| Frost Free Duration: 163.9 days | November | 31 [0] | 5 [0] | -10.13 | 18.84 | 2.27 | 3.61 | 34.52 | 1.15 | 1.25 |
| | December | 2 [0] | 0 [0] | -18.21 | 11.03 | -3.87 | -2.03 | 22.22 | 0.72 | 0.79 |
| | Totals, Averages or Extremes | 1944 [1750] | 1040 [993] | -21.87 | 31.92 | 6.82 | 7.44 | 1,175.38 | 38.55 | 39.12 |

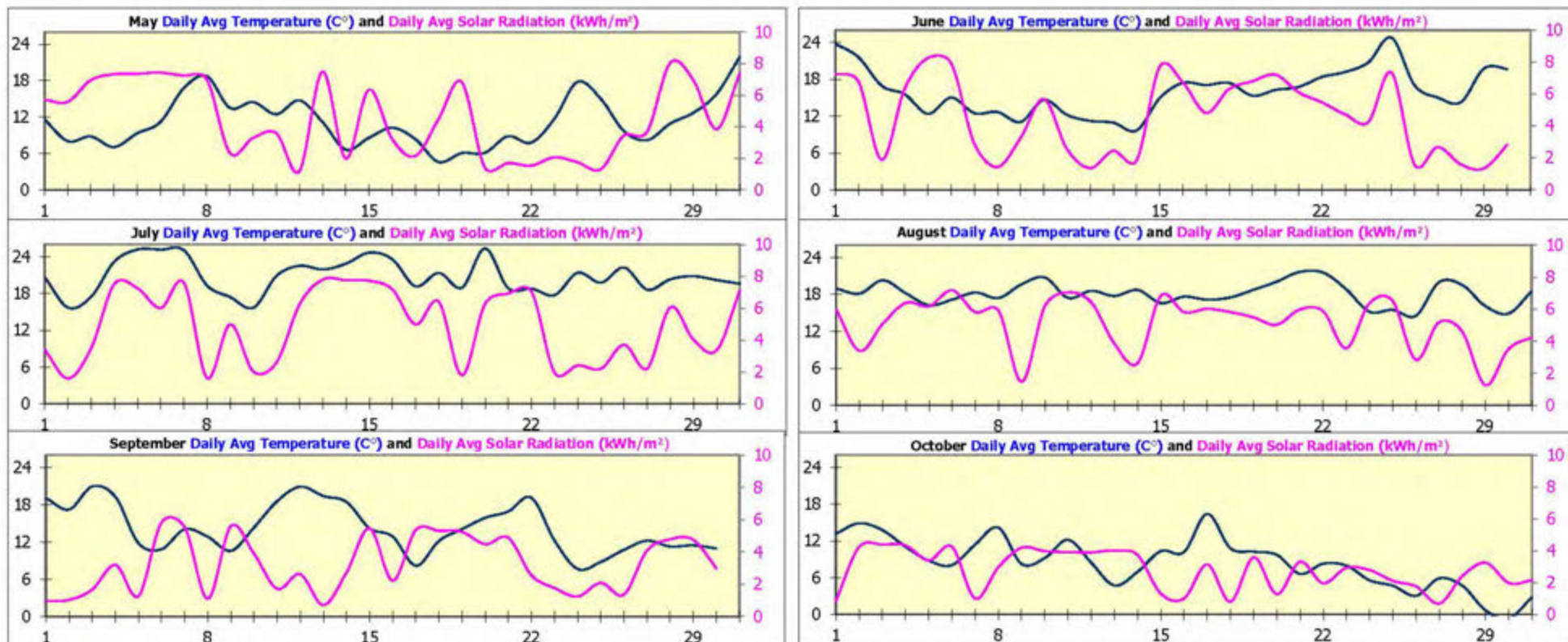
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|------------|-----------------------|-------------|
| Station ID: | MI4 (O) | Easting: | 346474.643 |
| Location: | Dalhousie | Northing: | 4950971.537 |
| County: | Annapolis | Height (m): | 205.9 |
| Contact: | John Blyde | [UTM Zone 20, NAD 83] | |
| Deployment: | 8/24/2011 | | |



2013 Temperature and Solar Radiation Summary for Station MI4

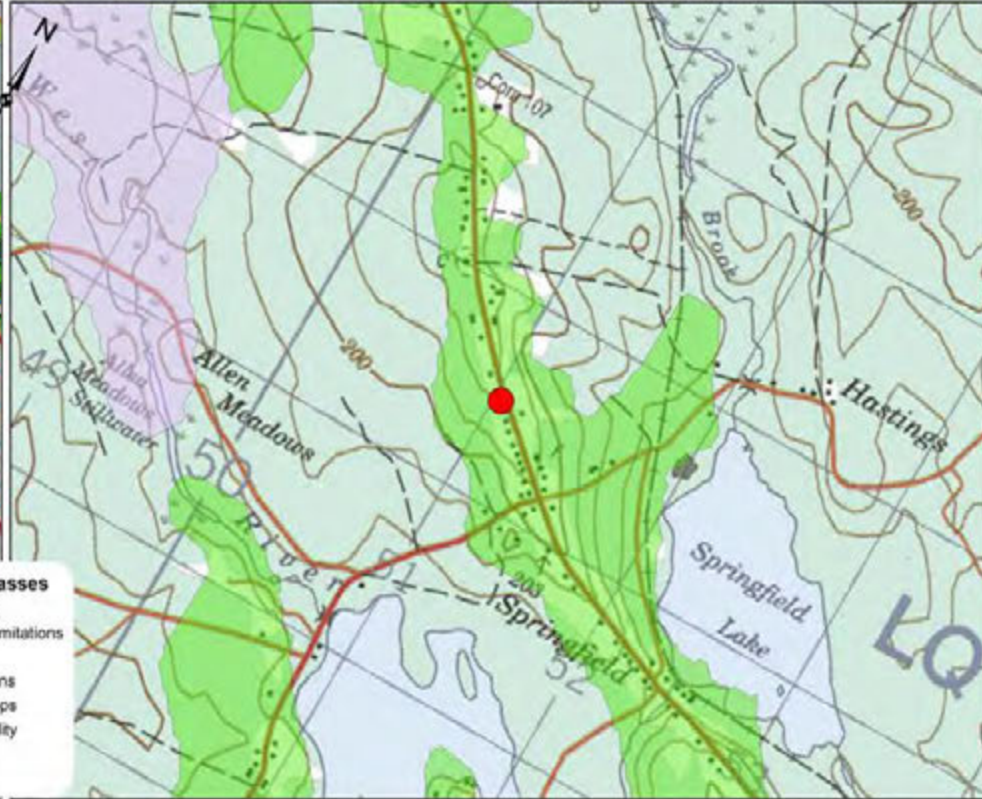
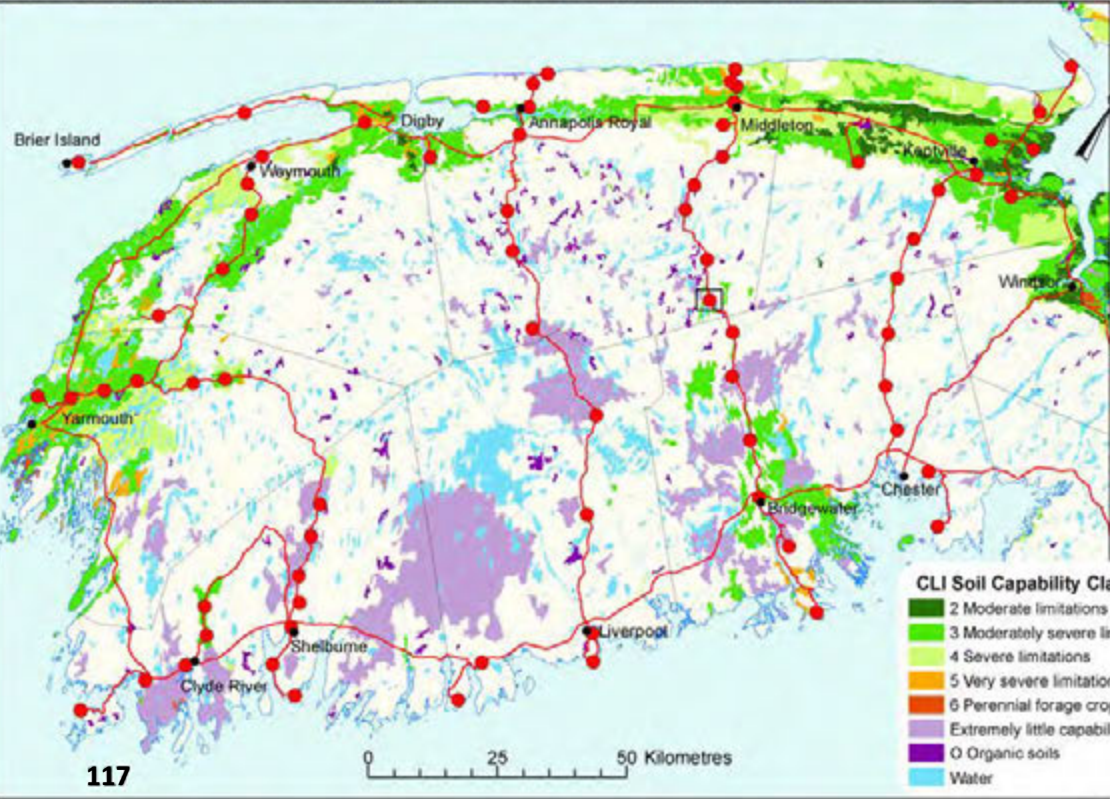


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: August 24, 2011 | January | 4 [0] | 0 [0] | -20.45 | 14.17 | -5.94 | -4.01 | 39.84 | 1.29 | 1.38 |
| | February | 0 [0] | 0 [0] | -23.41 | 8.02 | -4.39 | -2.85 | 56.24 | 2.01 | 2.09 |
| | March | 2 [0] | 0 [0] | -13.47 | 13.43 | -0.18 | 0.94 | 91.09 | 2.94 | 3.08 |
| | April | 47 [0] | 5 [0] | -7.25 | 21.13 | 4.72 | 5.17 | 125.01 | 4.17 | 4.23 |
| Frost Free Start: May 19, 2013 04:50 | May | 200 [87] | 75 [36] | -2.25 | 29.86 | 11.25 | 10.87 | 142.61 | 4.60 | 4.84 |
| | June | 339 [339] | 189 [189] | 5.23 | 33.26 | 16.15 | 15.57 | 139.41 | 4.65 | 4.78 |
| | July | 492 [492] | 337 [337] | 9.83 | 32.35 | 20.78 | 20.09 | 153.30 | 4.95 | 4.93 |
| Frost Free End: October 13, 2013 04:15 | August | 422 [422] | 267 [267] | 5.44 | 29.84 | 18.11 | 17.86 | 160.77 | 5.19 | 5.31 |
| | September | 286 [286] | 142 [142] | 0.99 | 25.62 | 14.26 | 14.43 | 97.96 | 3.27 | 3.48 |
| | October | 127 [75] | 28 [18] | -6.01 | 24.12 | 8.48 | 9.65 | 86.90 | 2.80 | 2.96 |
| Frost Free Duration: 146.98 days | November | 31 [0] | 6 [0] | -11.58 | 18.32 | 2.27 | 3.61 | 34.48 | 1.15 | 1.25 |
| | December | 2 [0] | 0 [0] | -18.70 | 11.25 | -3.93 | -2.03 | 22.72 | 0.73 | 0.79 |
| | Totals, Averages or Extremes | 1952 [1701] | 1049 [989] | -23.41 | 33.26 | 6.80 | 7.44 | 1,150.33 | 37.73 | 39.12 |

South West NS Temperature and Solar Radiation Study

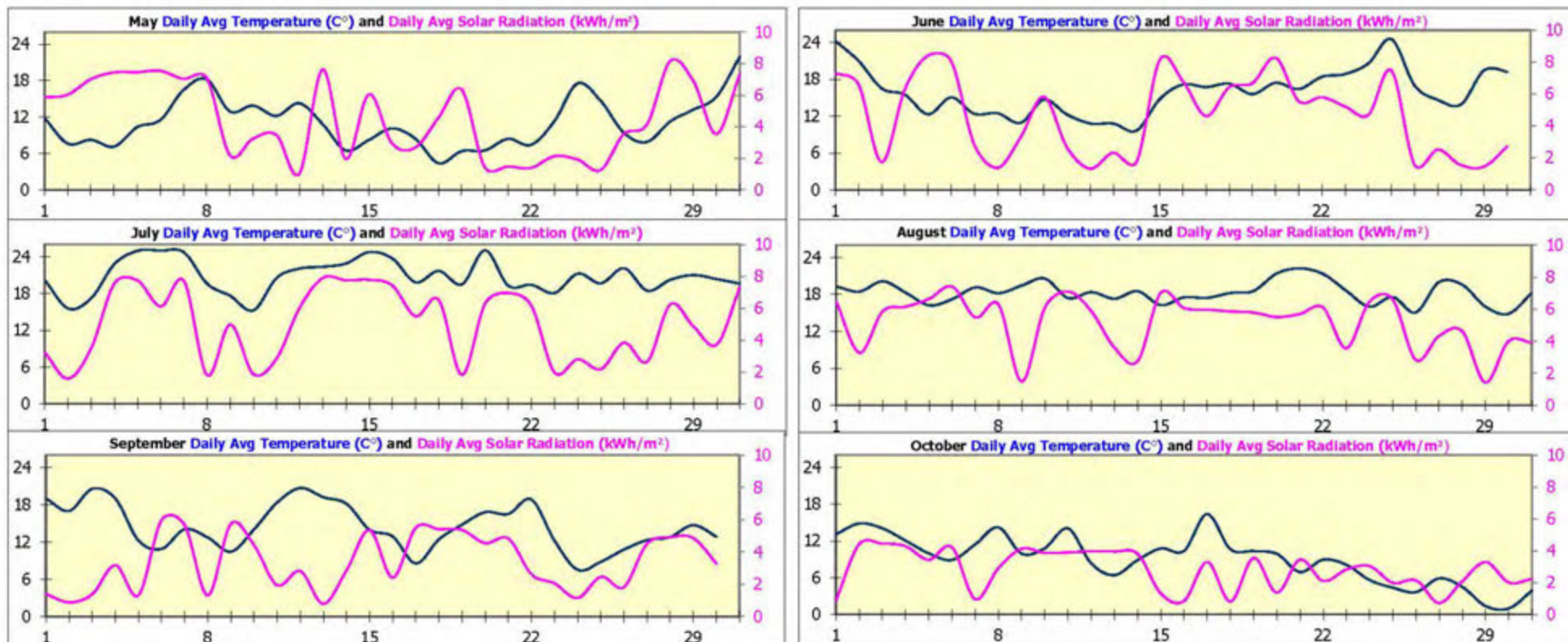
Station Description

| | | | |
|-------------|---------------|-----------------------|-------------|
| Station ID: | MI5 (O) | Easting: | 351044.646 |
| Location: | Springfield | Northing: | 4944484.319 |
| County: | Annapolis | Height (m): | 220.03 |
| Contact: | Robert Whynot | [UTM Zone 20, NAD 83] | |
| Deployment: | 7/14/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station MI5

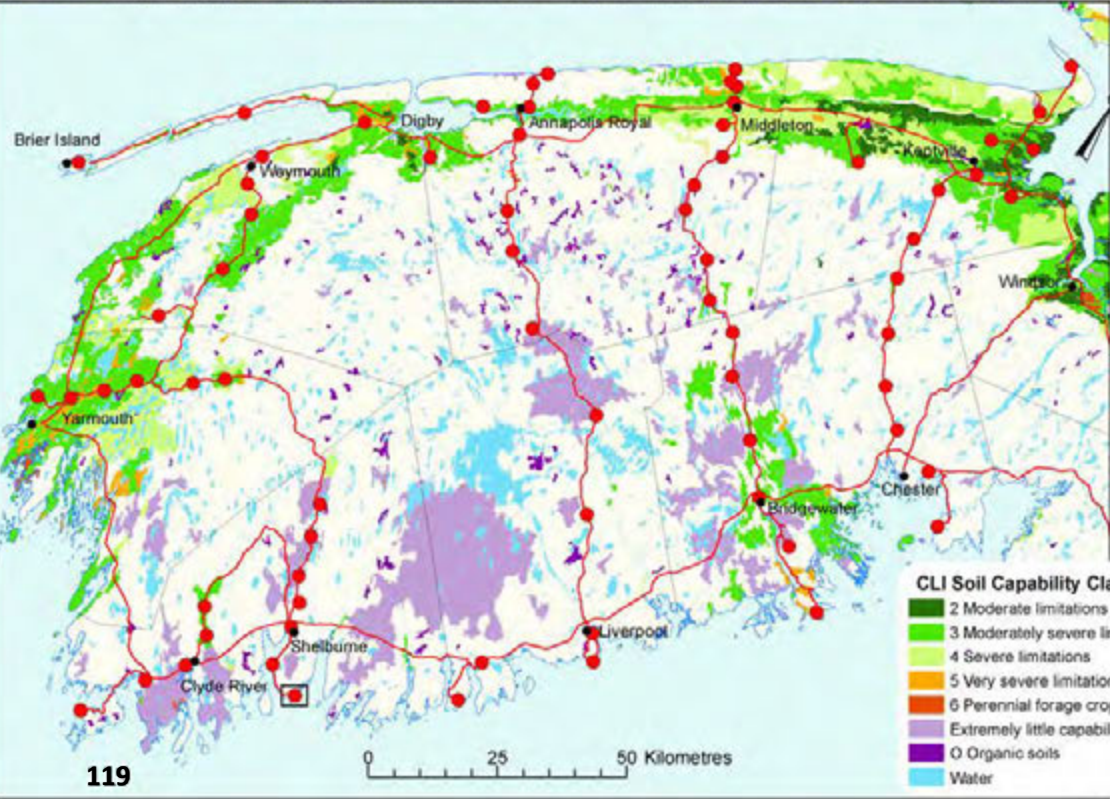


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: July 14, 2011 | January | 4 [0] | 0 [0] | -18.65 | 14.27 | -5.69 | -4.01 | 43.99 | 1.42 | 1.38 |
| | February | 0 [0] | 0 [0] | -22.07 | 7.44 | -4.35 | -2.85 | 57.66 | 2.06 | 2.09 |
| | March | 1 [0] | 0 [0] | -13.31 | 14.55 | -0.23 | 0.94 | 93.78 | 3.03 | 3.08 |
| | April | 46 [0] | 5 [0] | -5.76 | 20.82 | 4.64 | 5.17 | 126.56 | 4.22 | 4.23 |
| Frost Free Start: May 19, 2013 00:41 | May | 198 [86] | 75 [36] | -0.31 | 29.44 | 11.11 | 10.87 | 142.01 | 4.58 | 4.84 |
| | June | 338 [338] | 188 [188] | 7.07 | 32.56 | 16.03 | 15.57 | 140.50 | 4.68 | 4.78 |
| | July | 500 [500] | 345 [345] | 12.82 | 31.31 | 20.79 | 20.09 | 155.70 | 5.02 | 4.93 |
| Frost Free End: October 30, 2013 01:26 | August | 428 [428] | 273 [273] | 8.22 | 28.39 | 18.30 | 17.86 | 161.68 | 5.22 | 5.31 |
| | September | 298 [298] | 153 [153] | 2.34 | 25.31 | 14.46 | 14.43 | 101.77 | 3.39 | 3.48 |
| | October | 141 [141] | 34 [34] | -2.95 | 22.90 | 9.03 | 9.65 | 87.04 | 2.81 | 2.96 |
| Frost Free Duration: 164.03 days | November | 33 [0] | 7 [0] | -9.64 | 18.44 | 2.42 | 3.61 | 36.84 | 1.23 | 1.25 |
| | December | 2 [0] | 0 [0] | -18.21 | 11.30 | -3.80 | -2.03 | 27.12 | 0.68 | 0.79 |
| | Totals, Averages or Extremes | 1989 [1791] | 1080 [1029] | -22.07 | 32.56 | 6.89 | 7.44 | 1,174.65 | 38.53 | 39.12 |

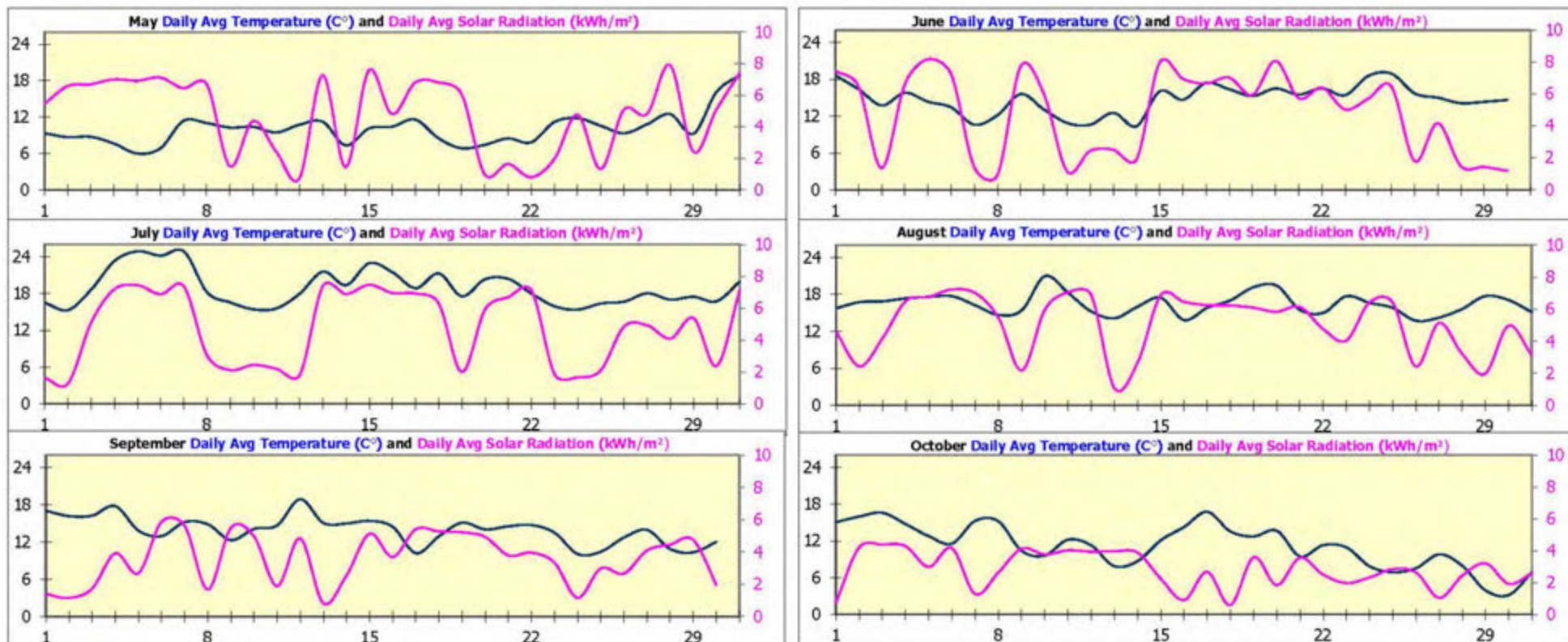
South West NS Temperature and Solar Radiation Study

Station Description

Station ID: SH1 (O)
 Location: Lockes Island Easting: 319765.334
 County: Shelburne Northing: 4838070.534
 Contact: Marilyn & Stewart Moore Height (m): 1
 Deployment: 5/12/2011 [UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station SH1

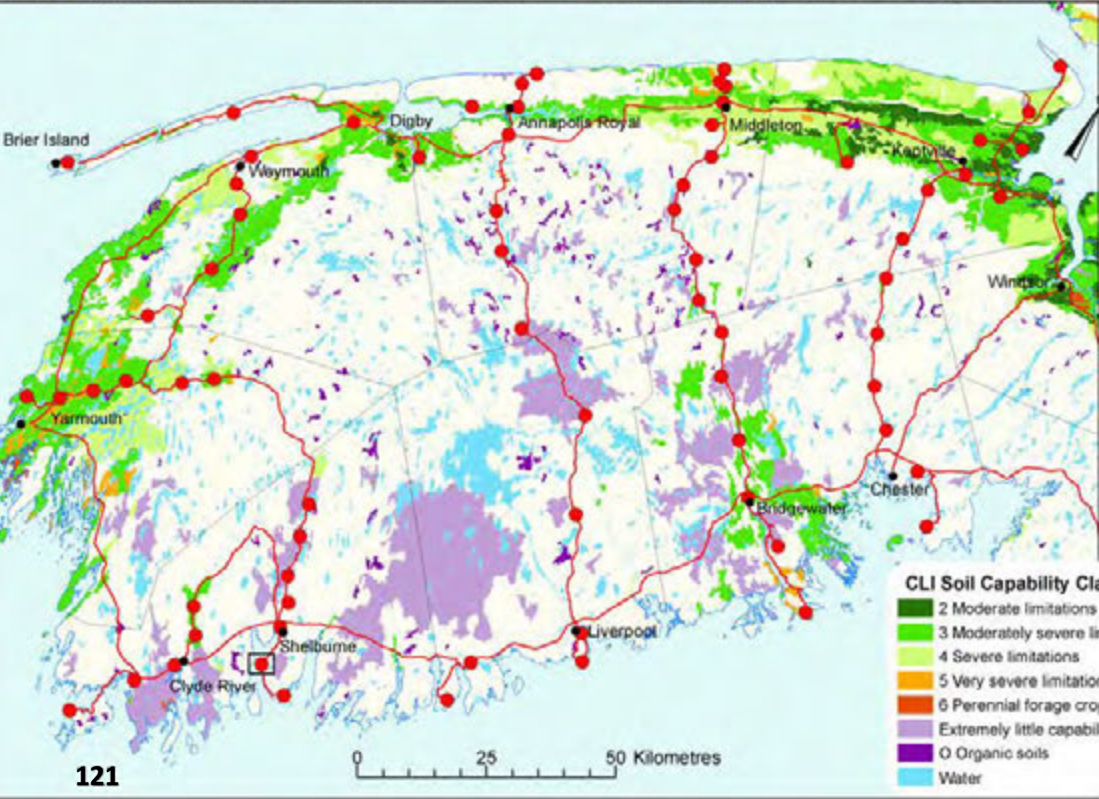


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 12, 2011 | January | 5 [0] | 0 [0] | -16.08 | 10.52 | -2.13 | -4.01 | 48.79 | 1.57 | 1.38 |
| | February | 0 [0] | 0 [0] | -14.95 | 8.49 | -1.16 | -2.85 | 60.36 | 2.16 | 2.09 |
| | March | 4 [0] | 0 [0] | -9.20 | 14.22 | 1.88 | 0.94 | 98.76 | 3.19 | 3.08 |
| | April | 43 [33] | 0 [0] | -3.27 | 16.61 | 5.35 | 5.17 | 124.71 | 4.16 | 4.23 |
| Frost Free Start: April 12, 2013 05:55 | May | 174 [174] | 42 [42] | 1.70 | 30.42 | 10.02 | 10.87 | 152.13 | 4.91 | 4.84 |
| | June | 319 [319] | 169 [169] | 8.77 | 30.19 | 14.78 | 15.57 | 148.74 | 4.96 | 4.78 |
| | July | 450 [450] | 295 [295] | 12.07 | 33.18 | 18.92 | 20.09 | 151.71 | 4.89 | 4.93 |
| Frost Free End: October 30, 2013 03:45 | August | 382 [382] | 227 [227] | 7.92 | 29.86 | 16.45 | 17.86 | 162.10 | 5.23 | 5.31 |
| | September | 296 [296] | 146 [146] | 4.12 | 26.16 | 14.00 | 14.43 | 111.43 | 3.71 | 3.48 |
| | October | 202 [201] | 72 [72] | -2.74 | 24.70 | 11.18 | 9.65 | 90.56 | 2.92 | 2.96 |
| Frost Free Duration: 200.91 days | November | 47 [0] | 10 [0] | -9.10 | 15.75 | 4.56 | 3.61 | 42.48 | 1.42 | 1.25 |
| | December | 10 [0] | 0 [0] | -14.63 | 11.61 | -0.14 | -2.03 | 26.47 | 0.85 | 0.79 |
| | Totals, Averages or Extremes | 1932 [1855] | 961 [951] | -16.08 | 33.18 | 7.81 | 7.44 | 1,218.24 | 39.97 | 39.12 |

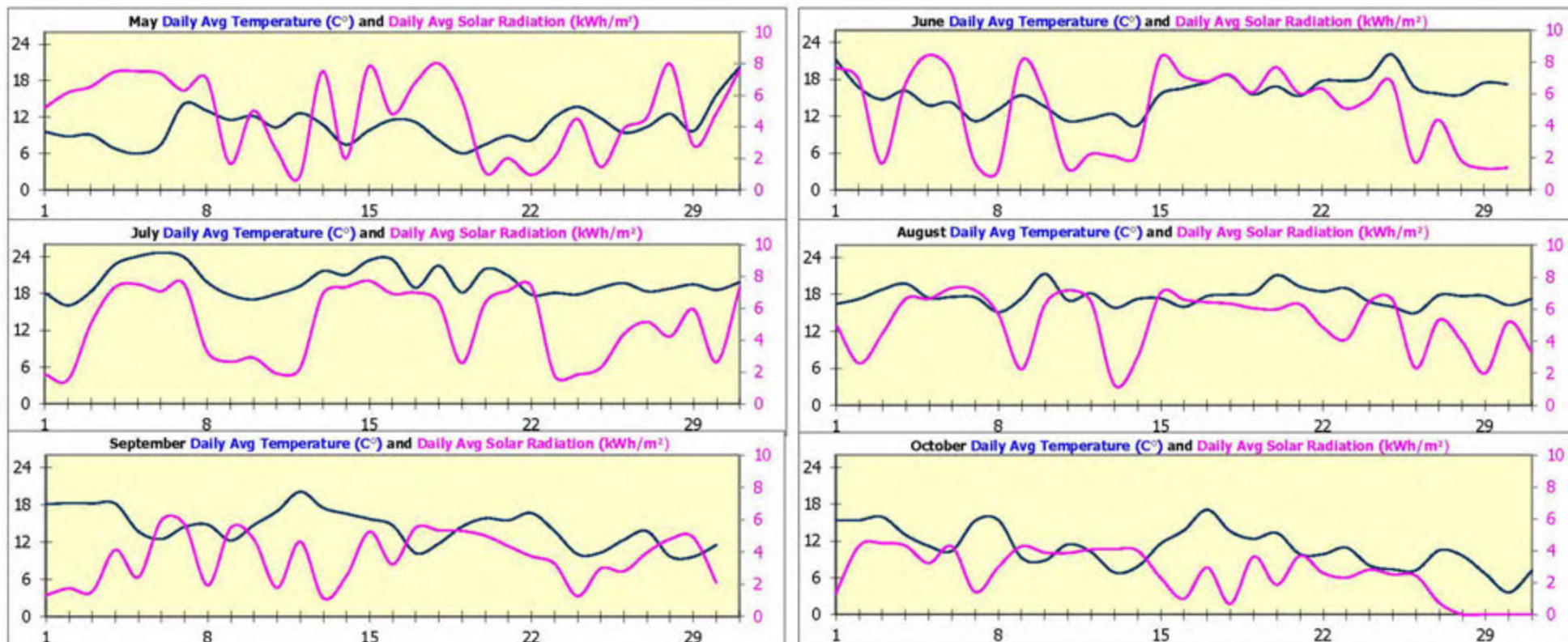
South West NS Temperature and Solar Radiation Study

Station Description

Station ID: SH2 (O)
Location: Sandy Point Easting: 312956.006
County: Shelburne Northing: 4841244.95
Contact: Maria Harding Height (m): 14.3
Deployment: 4/27/2011 [UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station SH2



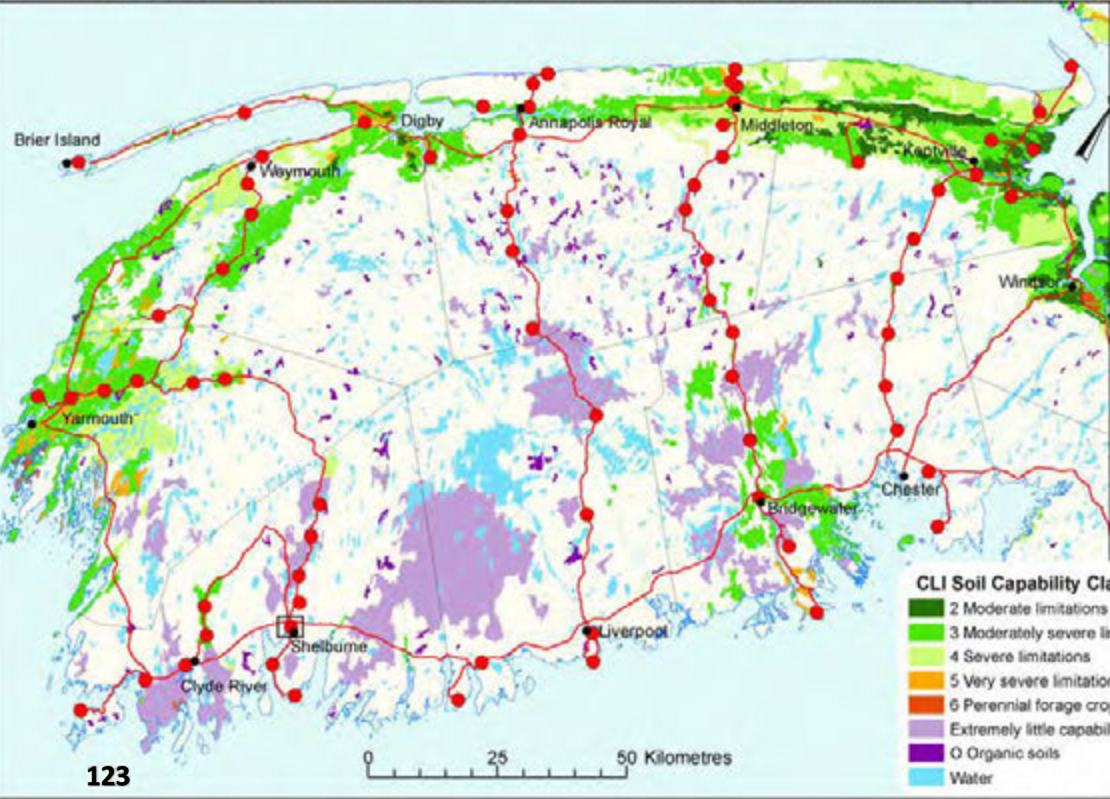
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|--|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 27, 2011 | January | 8 [0] | 0 [0] | -14.16 | 11.59 | -2.07 | -4.01 | 47.08 | 1.52 | 1.38 |
| | February | 0 [0] | 0 [0] | -17.13 | 7.80 | -1.38 | -2.85 | 57.73 | 2.06 | 2.09 |
| | March | 3 [0] | 0 [0] | -8.86 | 13.47 | 1.76 | 0.94 | 96.55 | 3.12 | 3.08 |
| | April | 48 [0] | 0 [0] | -3.96 | 16.32 | 5.48 | 5.17 | 123.38 | 4.11 | 4.23 |
| Frost Free Start: May 19, 2013 05:18 | May | 183 [85] | 52 [31] | -0.65 | 27.95 | 10.52 | 10.87 | 151.18 | 4.88 | 4.84 |
| | June | 331 [331] | 181 [181] | 6.41 | 31.64 | 15.67 | 15.57 | 148.31 | 4.94 | 4.78 |
| | July | 474 [474] | 319 [319] | 11.01 | 31.66 | 19.96 | 20.09 | 152.69 | 4.93 | 4.93 |
| Frost Free End: November 14, 2013 06:53 | August | 404 [404] | 249 [249] | 6.18 | 29.02 | 17.63 | 17.86 | 162.08 | 5.23 | 5.31 |
| | September | 295 [295] | 146 [146] | 2.15 | 26.43 | 14.42 | 14.43 | 109.87 | 3.66 | 3.48 |
| Frost Free Duration: 179.07 days | October | 186 [186] | 57 [57] | -1.70 | 22.75 | 10.92 | 9.65 | 80.72 | 2.60 | 2.96 |
| | November | 58 [35] | 12 [11] | -6.61 | 16.18 | 5.54 | 3.61 | 0.61 | 0.02 | 1.25 |
| | December | 11 [0] | 0 [0] | -11.94 | 10.86 | 0.53 | -2.03 | 0.65 | 0.02 | 0.79 |
| | Totals, Averages or Extremes | 2001 [1810] | 1016 [994] | -17.13 | 31.66 | 8.25 | 7.44 | 1,130.85 | 37.09 | 39.12 |

South West NS Temperature and Solar Radiation Study

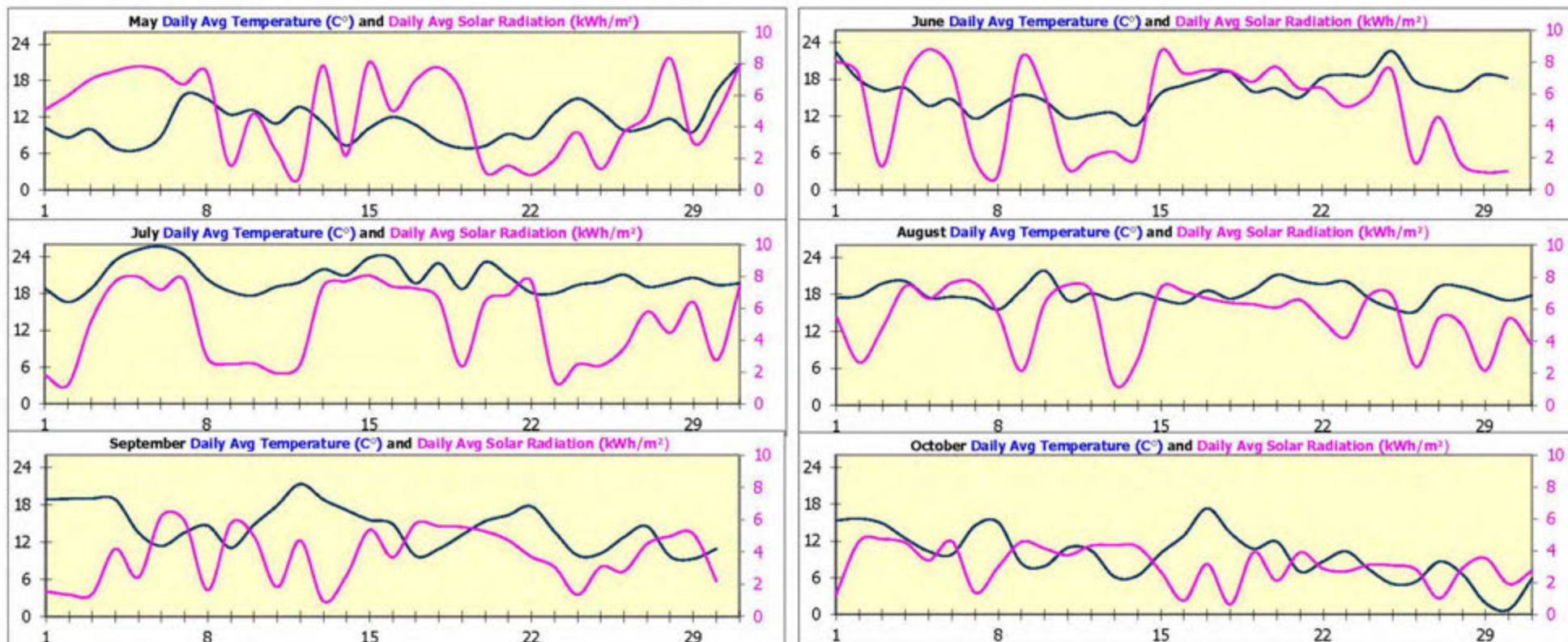
Station Description

Station ID: SH3 (O)
Location: Shelburne
County: Shelburne
Contact: Ivan Spears
Deployment: 5/12/2011

Easting: 312426.635
Northing: 4849220.799
Height (m): 4.76
[UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station SH3



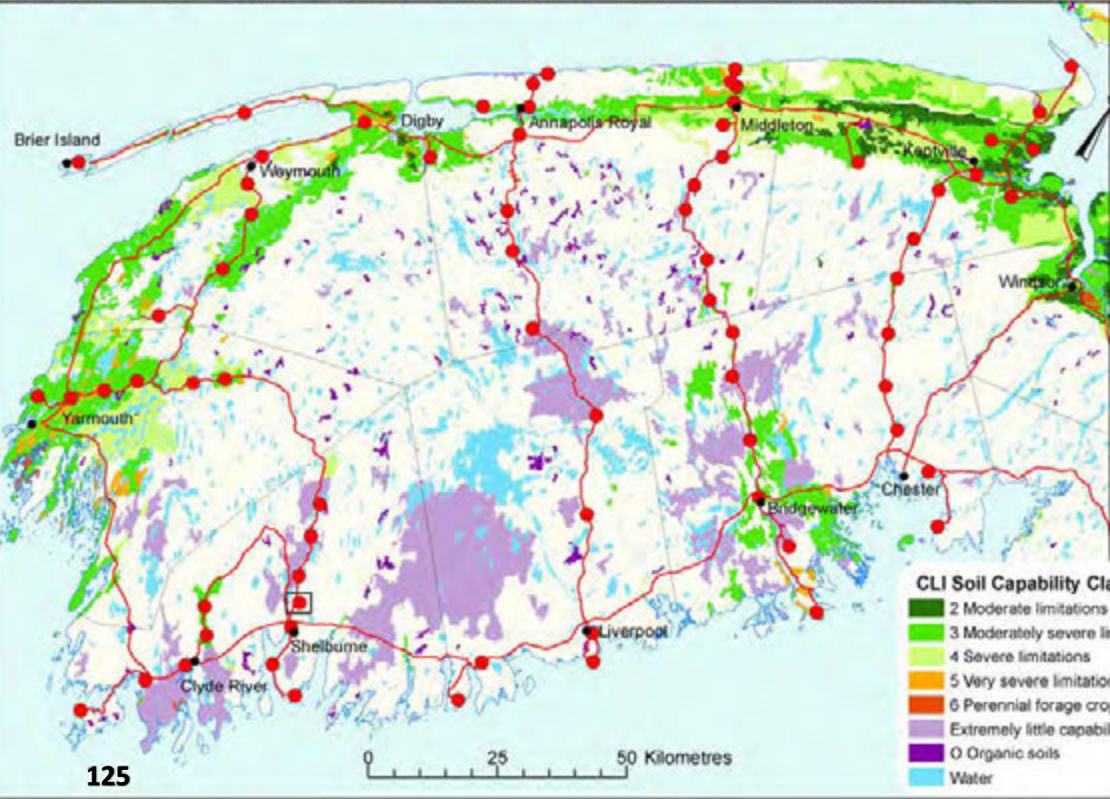
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 12, 2011 | January | 6 [0] | 0 [0] | -19.75 | 12.80 | -3.28 | -4.01 | 45.77 | 1.48 | 1.38 |
| | February | 0 [0] | 0 [0] | -19.29 | 8.24 | -1.94 | -2.85 | 59.98 | 2.14 | 2.09 |
| | March | 3 [0] | 0 [0] | -9.71 | 14.41 | 1.72 | 0.94 | 96.62 | 3.12 | 3.08 |
| | April | 51 [0] | 2 [0] | -7.09 | 18.56 | 5.63 | 5.17 | 122.13 | 4.07 | 4.23 |
| Frost Free Start: May 19, 2013 05:45 | May | 198 [88] | 64 [33] | -1.84 | 29.74 | 11.02 | 10.87 | 145.30 | 4.69 | 4.84 |
| | June | 352 [352] | 202 [202] | 5.28 | 34.10 | 16.24 | 15.57 | 145.66 | 4.86 | 4.78 |
| | July | 490 [490] | 335 [335] | 9.78 | 32.90 | 20.59 | 20.09 | 148.59 | 4.79 | 4.93 |
| Frost Free End: October 26, 2013 06:15 | August | 411 [411] | 256 [256] | 4.89 | 30.19 | 18.16 | 17.86 | 162.37 | 5.24 | 5.31 |
| | September | 293 [293] | 144 [144] | 0.11 | 28.54 | 14.49 | 14.43 | 107.70 | 3.59 | 3.48 |
| | October | 158 [154] | 48 [48] | -6.83 | 23.59 | 9.73 | 9.65 | 92.77 | 2.99 | 2.96 |
| Frost Free Duration: 160.02 days | November | 41 [0] | 13 [0] | -12.38 | 18.75 | 3.71 | 3.61 | 41.73 | 1.39 | 1.25 |
| | December | 8 [0] | 0 [0] | -18.39 | 12.63 | -1.08 | -2.03 | 27.06 | 0.87 | 0.79 |
| | Totals, Averages or Extremes | 2011 [1788] | 1064 [1018] | -19.75 | 34.10 | 7.92 | 7.44 | 1,195.68 | 39.23 | 39.12 |

South West NS Temperature and Solar Radiation Study

Station Description

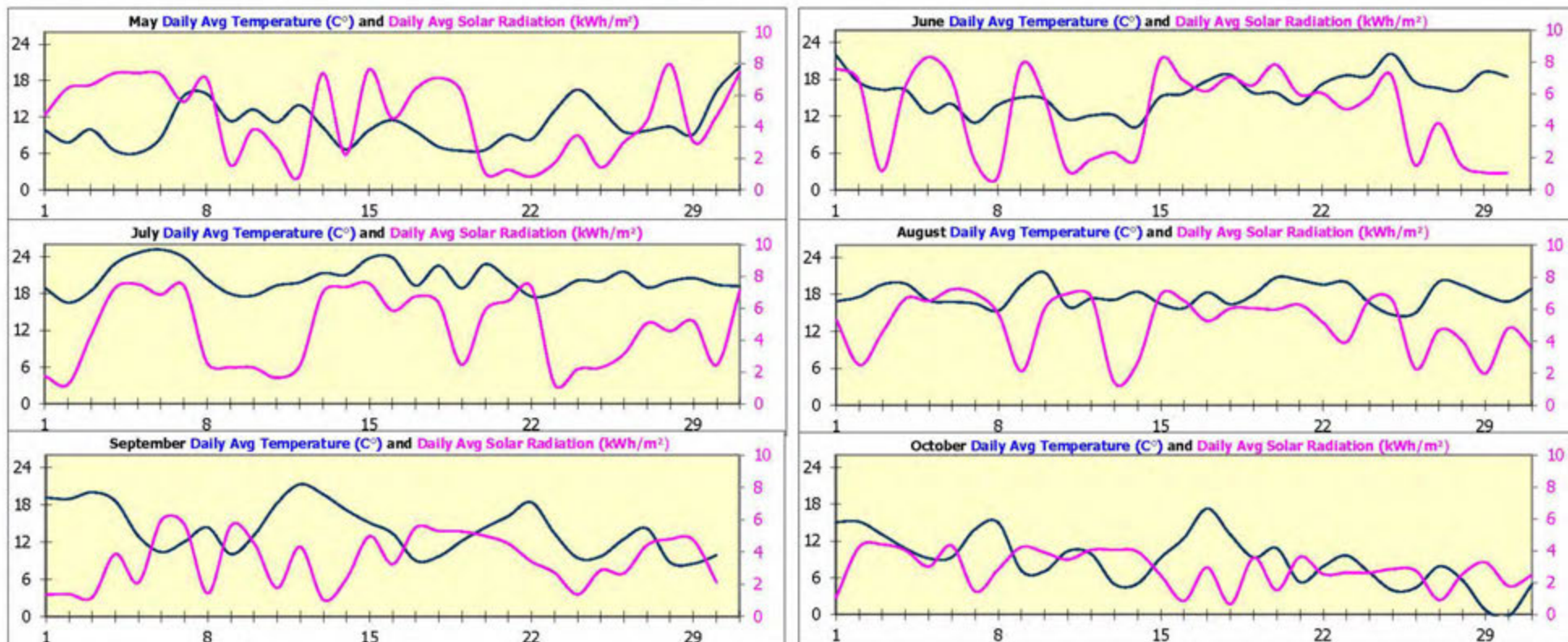
Station ID: SH4 (O)
Location: Lower Ohio
County: Shelburne
Contact: Rick Bower
Deployment: 4/28/2011

Easting: 311520.69
Northing: 4854025.296
Height (m): 37.39
[UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station SH4

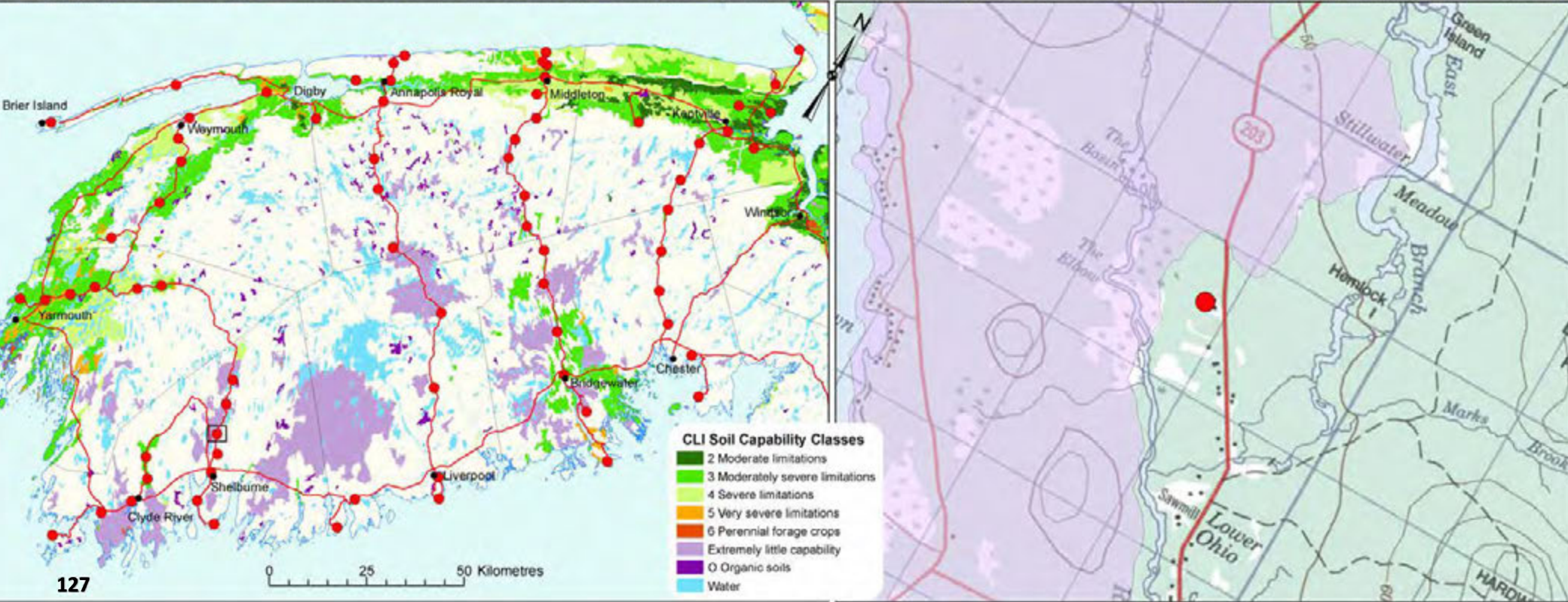


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 28, 2011 | January | 5 [0] | 0 [0] | -20.74 | 13.67 | -3.77 | -4.01 | 43.18 | 1.39 | 1.38 |
| | February | 0 [0] | 0 [0] | -21.17 | 9.19 | -2.45 | -2.85 | 59.50 | 2.13 | 2.09 |
| | March | 4 [0] | 0 [0] | -10.34 | 13.91 | 1.33 | 0.94 | 94.58 | 3.05 | 3.08 |
| | April | 44 [0] | 3 [0] | -8.70 | 20.13 | 5.27 | 5.17 | 125.10 | 4.17 | 4.23 |
| Frost Free Start: May 29, 2013 05:53 | May | 181 [28] | 59 [18] | -3.99 | 29.97 | 10.75 | 10.87 | 146.71 | 4.73 | 4.84 |
| | June | 333 [333] | 183 [183] | 3.22 | 33.84 | 15.90 | 15.57 | 146.71 | 4.89 | 4.78 |
| | July | 490 [490] | 335 [335] | 8.00 | 32.92 | 20.46 | 20.09 | 146.93 | 4.74 | 4.93 |
| Frost Free End: October 09, 2013 07:33 | August | 398 [398] | 243 [243] | 1.91 | 30.50 | 17.89 | 17.86 | 162.13 | 5.23 | 5.31 |
| | September | 276 [276] | 128 [128] | -0.87 | 27.60 | 14.03 | 14.43 | 108.33 | 3.61 | 3.48 |
| | October | 132 [64] | 34 [20] | -8.50 | 24.53 | 8.87 | 9.65 | 91.15 | 2.94 | 2.96 |
| Frost Free Duration: 133.07 days | November | 40 [0] | 13 [0] | -13.66 | 18.58 | 3.14 | 3.61 | 40.72 | 1.36 | 1.25 |
| | December | 8 [0] | 0 [0] | -20.69 | 12.80 | -1.53 | -2.03 | 26.62 | 0.86 | 0.79 |
| | Totals, Averages or Extremes | 1911 [1589] | 998 [927] | -21.17 | 33.84 | 7.49 | 7.44 | 1,191.66 | 39.10 | 39.12 |

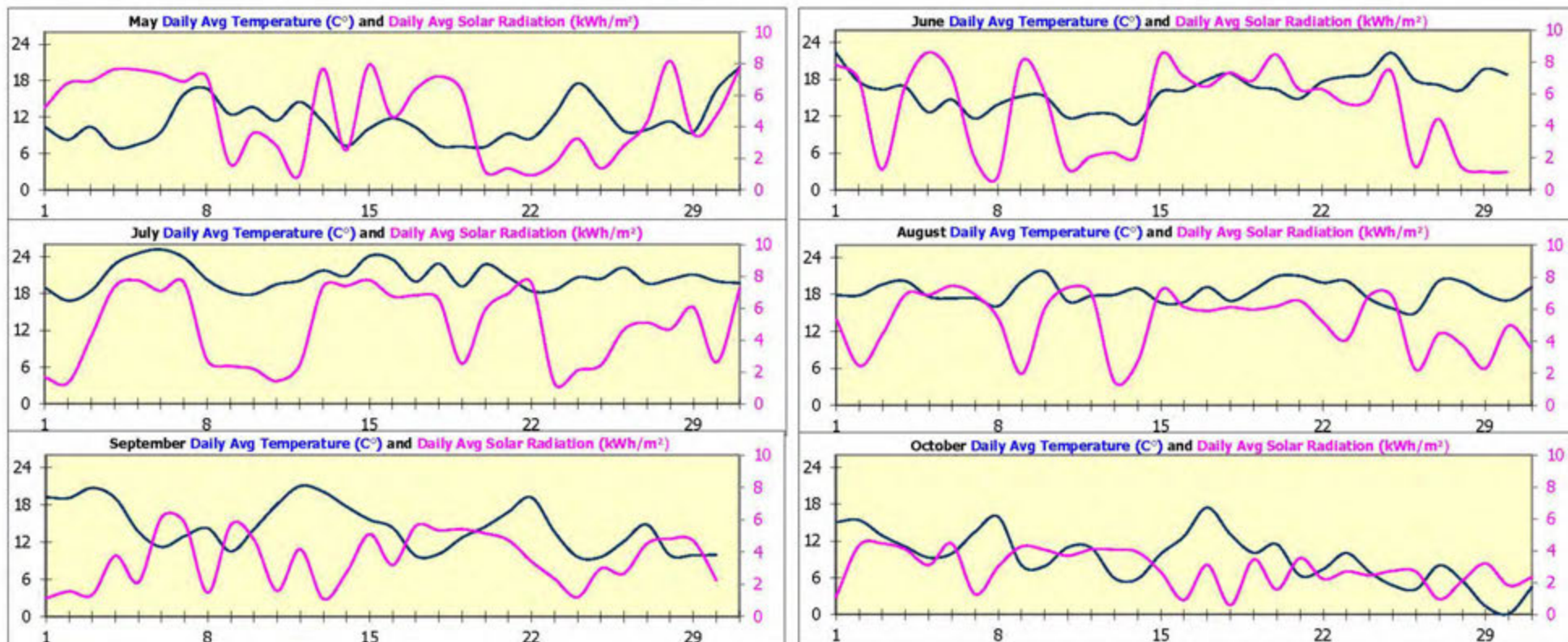
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|------------|-----------------------|------------|
| Station ID: | SH5 (O) | Easting: | 308845.032 |
| Location: | Lower Ohio | Northing: | 4858586.68 |
| County: | Shelburne | Height (m): | 41.64 |
| Contact: | Rick Bower | [UTM Zone 20, NAD 83] | |
| Deployment: | 4/27/2011 | | |



2013 Temperature and Solar Radiation Summary for Station SH5



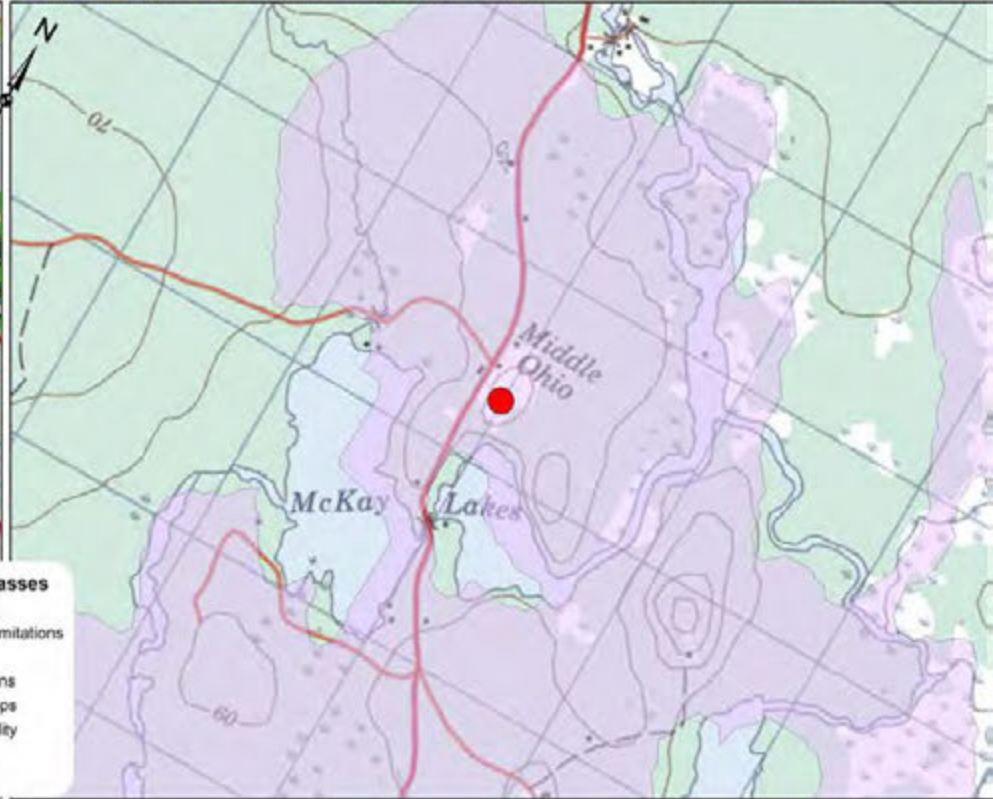
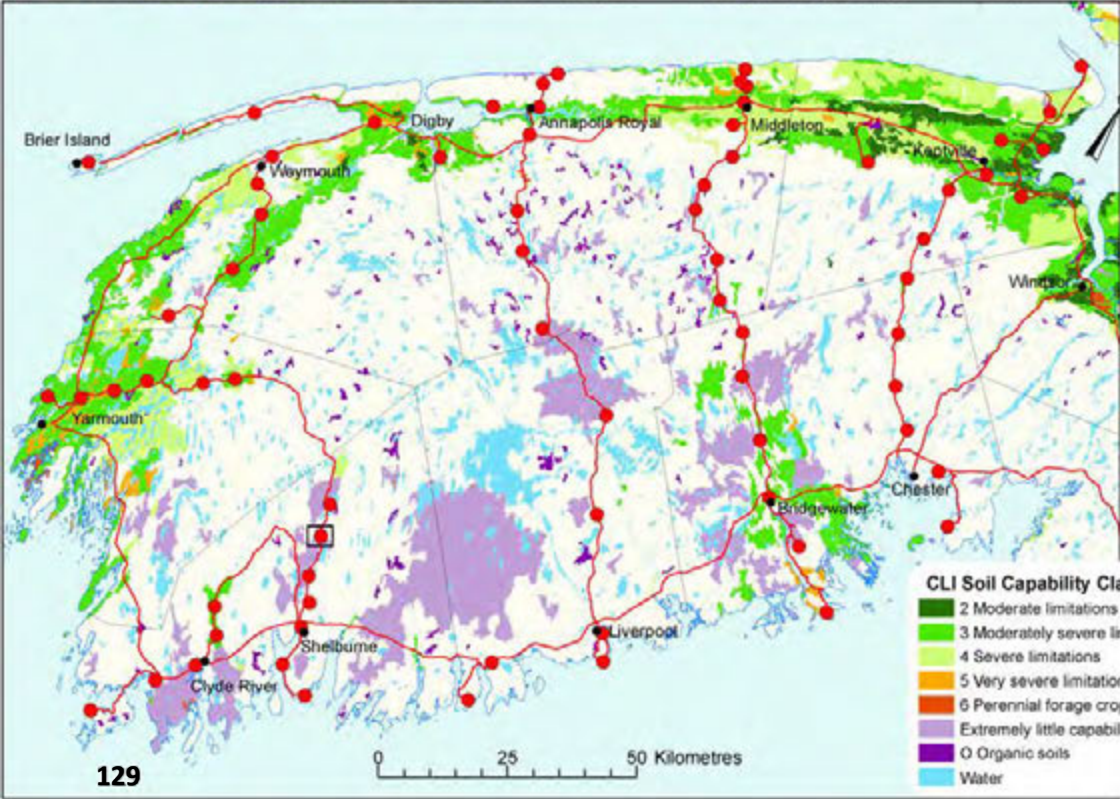
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 5 [0] | 0 [0] | -20.26 | 13.71 | -3.87 | -4.01 | 41.91 | 1.35 | 1.38 |
| Station Deployment: | February | 0 [0] | 0 [0] | -21.08 | 9.85 | -2.38 | -2.85 | 57.77 | 2.06 | 2.09 |
| April 27, 2011 | March | 4 [0] | 0 [0] | -10.44 | 14.91 | 1.47 | 0.94 | 99.15 | 3.20 | 3.08 |
| | April | 59 [0] | 6 [0] | -7.45 | 21.41 | 5.64 | 5.17 | 124.61 | 4.15 | 4.23 |
| Frost Free Start: | May | 204 [29] | 70 [19] | -2.63 | 30.80 | 11.24 | 10.87 | 148.59 | 4.79 | 4.84 |
| May 29, 2013 06:45 | June | 354 [354] | 204 [204] | 4.14 | 34.49 | 16.25 | 15.57 | 149.08 | 4.97 | 4.78 |
| | July | 511 [511] | 356 [356] | 9.48 | 33.47 | 20.74 | 20.09 | 150.33 | 4.85 | 4.93 |
| Frost Free End: | August | 430 [430] | 275 [275] | 3.83 | 31.31 | 18.38 | 17.86 | 161.26 | 5.20 | 5.31 |
| October 14, 2013 05:25 | September | 301 [301] | 151 [151] | 0.36 | 28.62 | 14.48 | 14.43 | 107.35 | 3.58 | 3.48 |
| | October | 154 [90] | 44 [27] | -6.96 | 24.24 | 9.24 | 9.65 | 89.42 | 2.88 | 2.96 |
| Frost Free Duration: | November | 43 [0] | 12 [0] | -12.53 | 18.96 | 3.29 | 3.61 | 40.05 | 1.34 | 1.25 |
| 137.94 days | December | 7 [0] | 0 [0] | -18.74 | 12.58 | -1.64 | -2.03 | 23.34 | 0.75 | 0.79 |
| | Totals, Averages or Extremes | 2072 [1715] | 1118 [1032] | -21.08 | 34.49 | 7.74 | 7.44 | 1,192.86 | 39.13 | 39.12 |

South West NS Temperature and Solar Radiation Study

Station Description

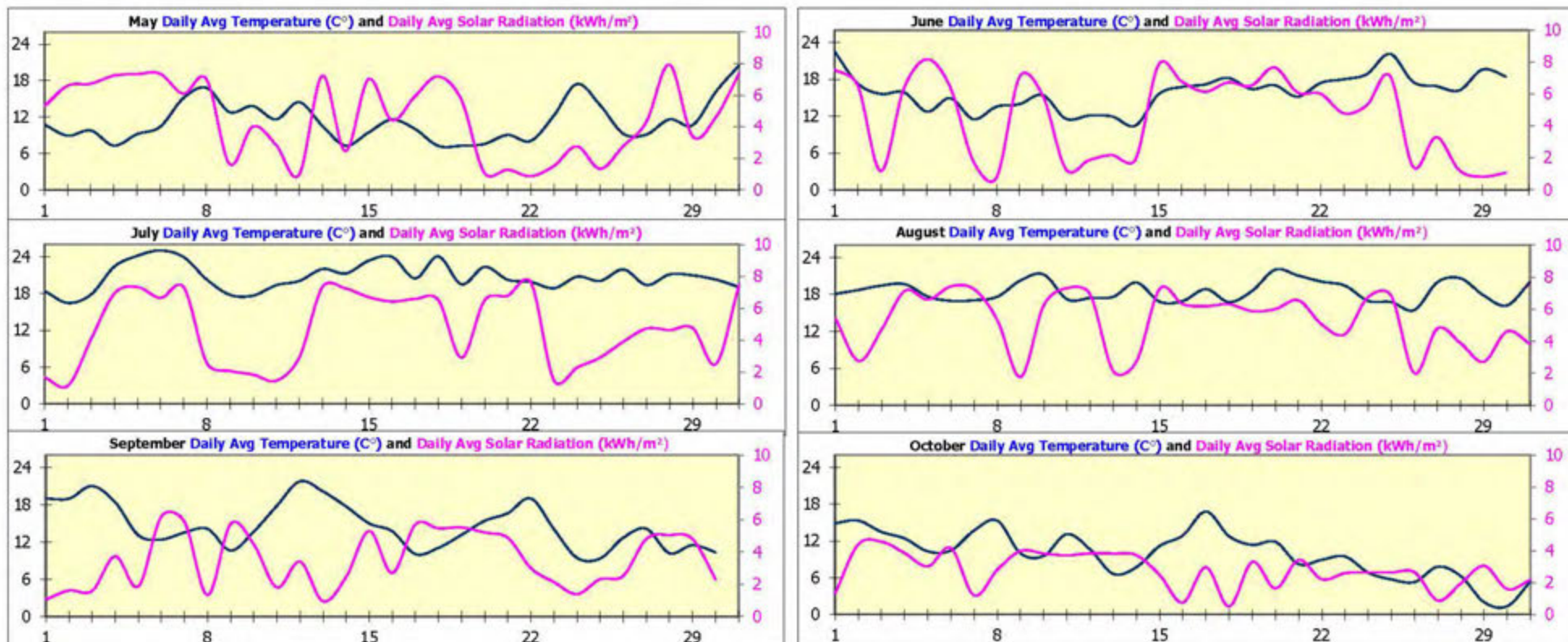
Station ID: SH6 (O)
Location: Middle Ohio
County: Shelburne
Contact: Ted Siegel
Deployment: 4/27/2011

Easting: 306997.269
Northing: 4866344.991
Height (m): 78.06
[UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station SH6

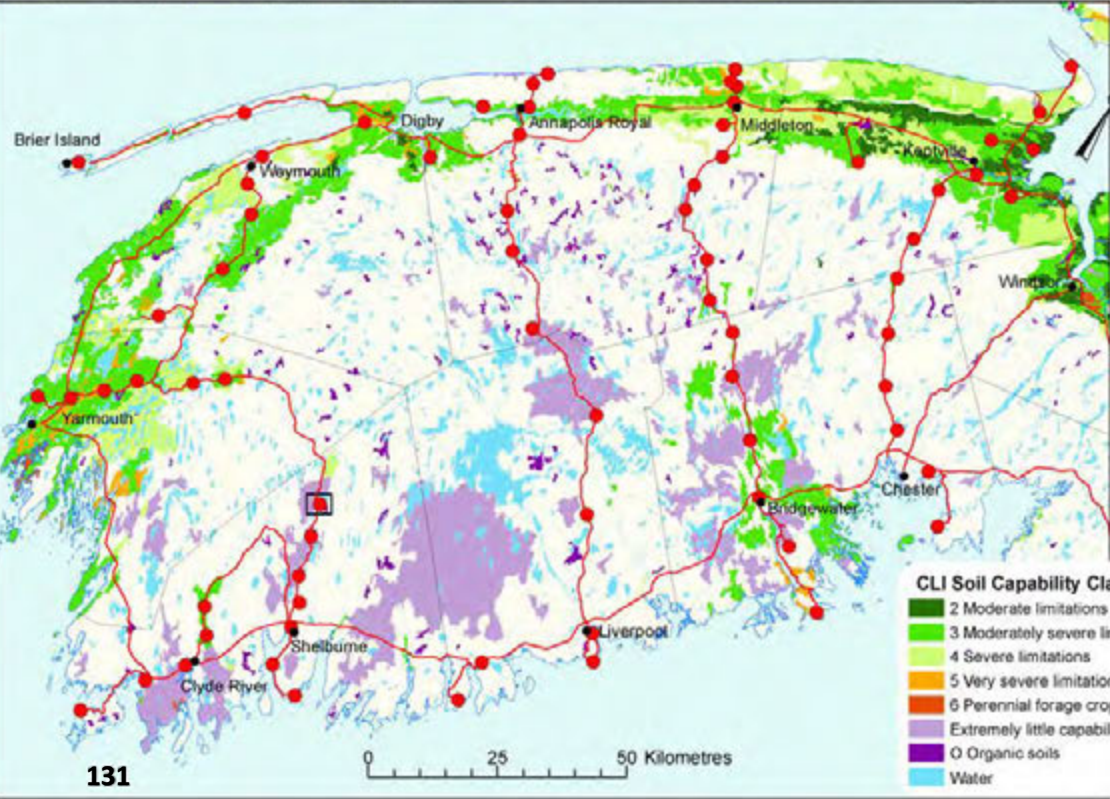


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 27, 2011 | January | 7 [0] | 0 [0] | -18.70 | 14.77 | -3.72 | -4.01 | 45.58 | 1.47 | 1.38 |
| | February | 0 [0] | 0 [0] | -19.29 | 10.42 | -2.51 | -2.85 | 57.63 | 2.06 | 2.09 |
| | March | 4 [0] | 0 [0] | -10.69 | 14.41 | 1.24 | 0.94 | 93.82 | 3.03 | 3.08 |
| | April | 57 [0] | 5 [0] | -5.26 | 20.94 | 5.69 | 5.17 | 119.71 | 3.99 | 4.23 |
| Frost Free Start: May 19, 2013 05:20 | May | 206 [88] | 70 [35] | -0.62 | 29.69 | 11.29 | 10.87 | 145.34 | 4.69 | 4.84 |
| | June | 351 [351] | 201 [201] | 6.76 | 33.34 | 16.04 | 15.57 | 140.85 | 4.70 | 4.78 |
| Frost Free End: October 29, 2013 07:45 | July | 467 [467] | 322 [322] | 11.63 | 31.77 | 20.62 | 20.09 | 128.98 | 4.16 | 4.93 |
| | August | 424 [424] | 269 [269] | 2.72 | 33.79 | 18.49 | 17.86 | 166.74 | 5.38 | 5.31 |
| | September | 294 [294] | 144 [144] | 1.08 | 28.09 | 14.62 | 14.43 | 107.57 | 3.59 | 3.48 |
| Frost Free Duration: 163.1 days | October | 170 [169] | 54 [54] | -5.36 | 24.27 | 9.93 | 9.65 | 87.59 | 2.83 | 2.96 |
| | November | 46 [0] | 13 [0] | -10.69 | 19.10 | 3.52 | 3.61 | 37.88 | 1.26 | 1.25 |
| | December | 6 [0] | 0 [0] | -16.79 | 12.61 | -1.69 | -2.03 | 23.34 | 0.75 | 0.79 |
| | Totals, Averages or Extremes | 2032 [1793] | 1078 [1025] | -19.29 | 33.79 | 7.80 | 7.44 | 1,155.03 | 37.90 | 39.12 |

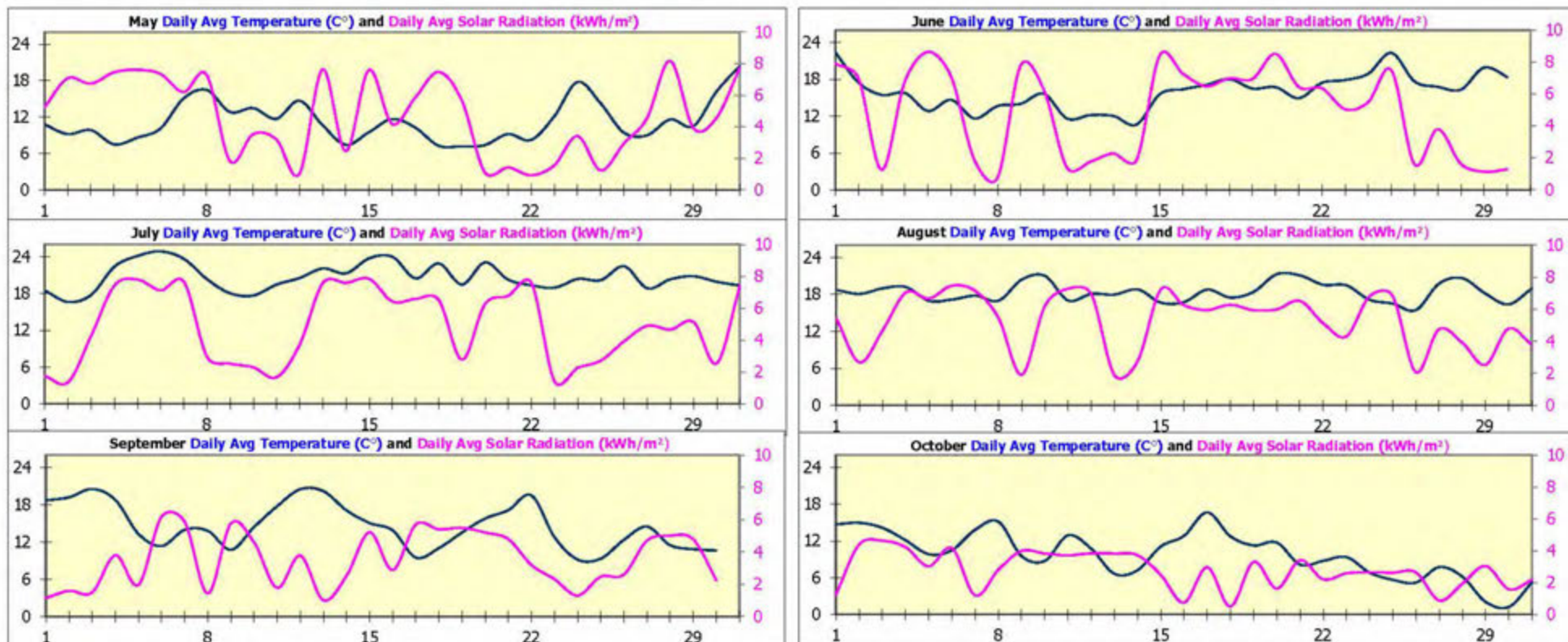
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|---------------|-----------------------|-------------|
| Station ID: | SH7 (O) | Easting: | 305399.177 |
| Location: | Upper Ohio | Northing: | 4872560.026 |
| County: | Shelburne | Height (m): | 79.43 |
| Contact: | Leonard Bower | [UTM Zone 20, NAD 83] | |
| Deployment: | 4/27/2011 | | |



2013 Temperature and Solar Radiation Summary for Station SH7

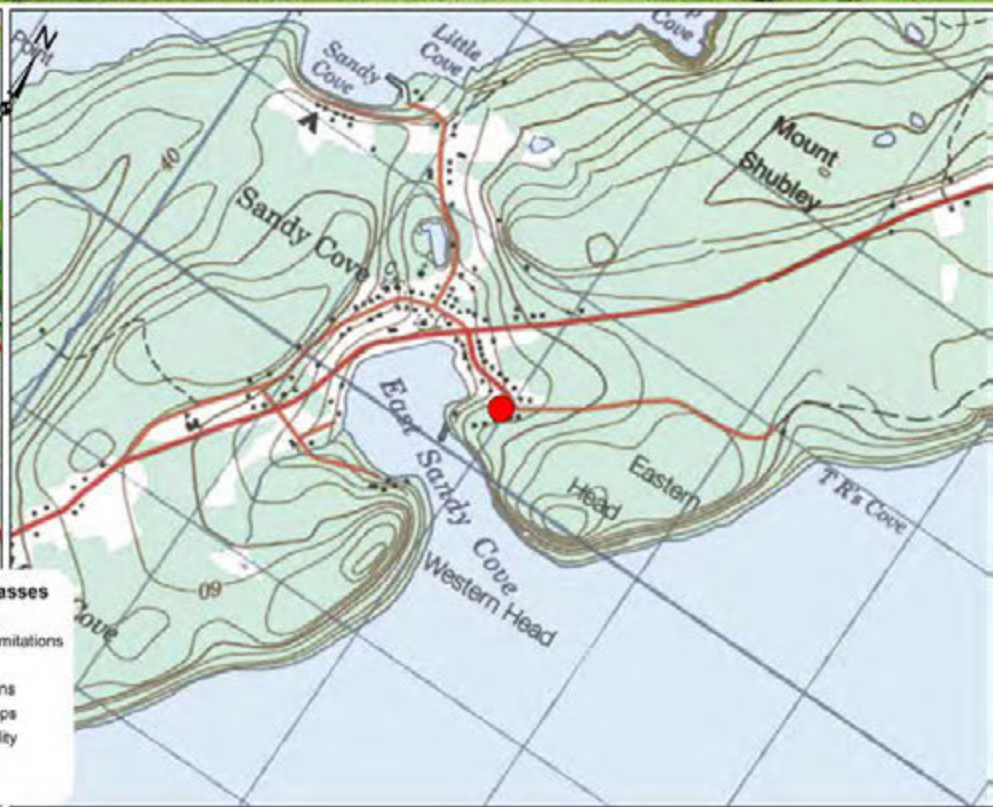
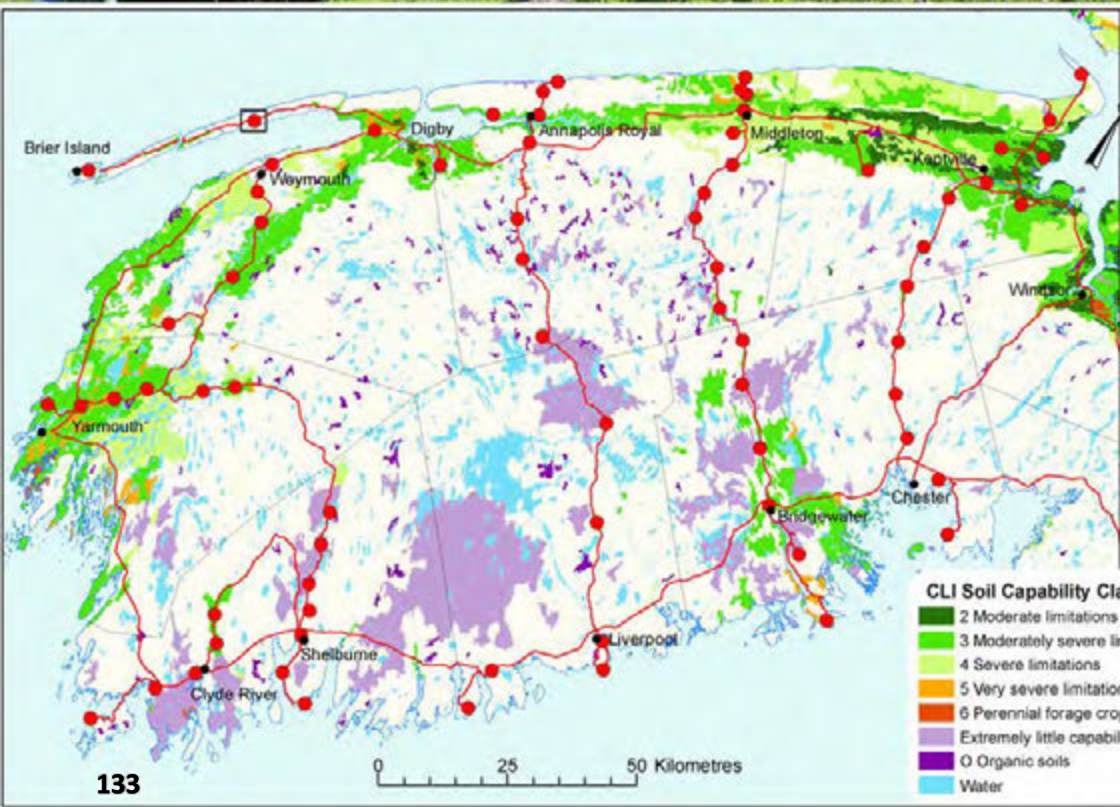


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 8 [0] | 0 [0] | -20.40 | 15.25 | -3.76 | -4.01 | 46.87 | 1.51 | 1.38 |
| Station Deployment: | February | 0 [0] | 0 [0] | -19.56 | 9.04 | -2.56 | -2.85 | 59.51 | 2.13 | 2.09 |
| April 27, 2011 | March | 3 [0] | 0 [0] | -10.51 | 13.47 | 1.25 | 0.94 | 94.98 | 3.06 | 3.08 |
| | April | 53 [0] | 4 [0] | -6.39 | 20.48 | 5.66 | 5.17 | 124.85 | 4.16 | 4.23 |
| Frost Free Start: | May | 202 [85] | 67 [33] | -1.04 | 29.36 | 11.30 | 10.87 | 149.41 | 4.82 | 4.84 |
| May 19, 2013 02:15 | June | 346 [346] | 196 [196] | 6.51 | 32.74 | 16.03 | 15.57 | 150.07 | 5.00 | 4.78 |
| | July | 498 [498] | 343 [343] | 11.42 | 32.66 | 20.69 | 20.09 | 153.84 | 4.96 | 4.93 |
| Frost Free End: | August | 424 [424] | 269 [269] | 5.97 | 30.29 | 18.37 | 17.86 | 165.32 | 5.33 | 5.31 |
| October 29, 2013 07:45 | September | 300 [300] | 151 [151] | 2.29 | 26.96 | 14.58 | 14.43 | 108.20 | 3.61 | 3.48 |
| | October | 163 [162] | 49 [49] | -5.43 | 23.21 | 9.81 | 9.65 | 238.57 | 7.70 | 2.96 |
| Frost Free Duration: | November | 47 [0] | 14 [0] | -10.34 | 19.25 | 3.53 | 3.61 | 40.12 | 1.34 | 1.25 |
| 163.23 days | December | 6 [0] | 0 [0] | -16.74 | 12.63 | -1.75 | -2.03 | 26.31 | 0.85 | 0.79 |
| | Totals, Averages or Extremes | 2050 [1815] | 1093 [1041] | -20.40 | 32.74 | 7.76 | 7.44 | 1,358.05 | 44.47 | 39.12 |

South West NS Temperature and Solar Radiation Study

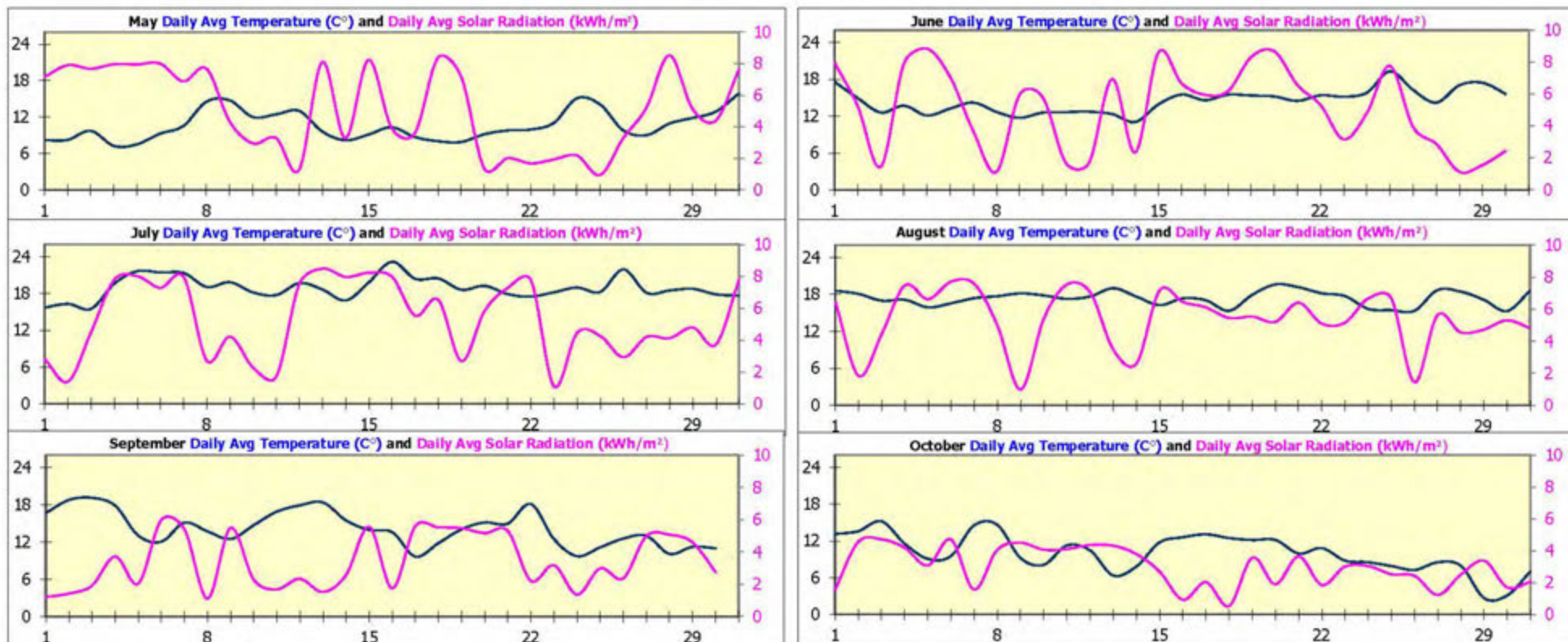
Station Description

Station ID: WE1 (O)
Location: Sandy Cove Easting: 255361.508
County: Digby Northing: 4930562.921
Contact: Andre D'Entremont Height (m): 21.1
Deployment: 5/11/2011 [UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station WE1

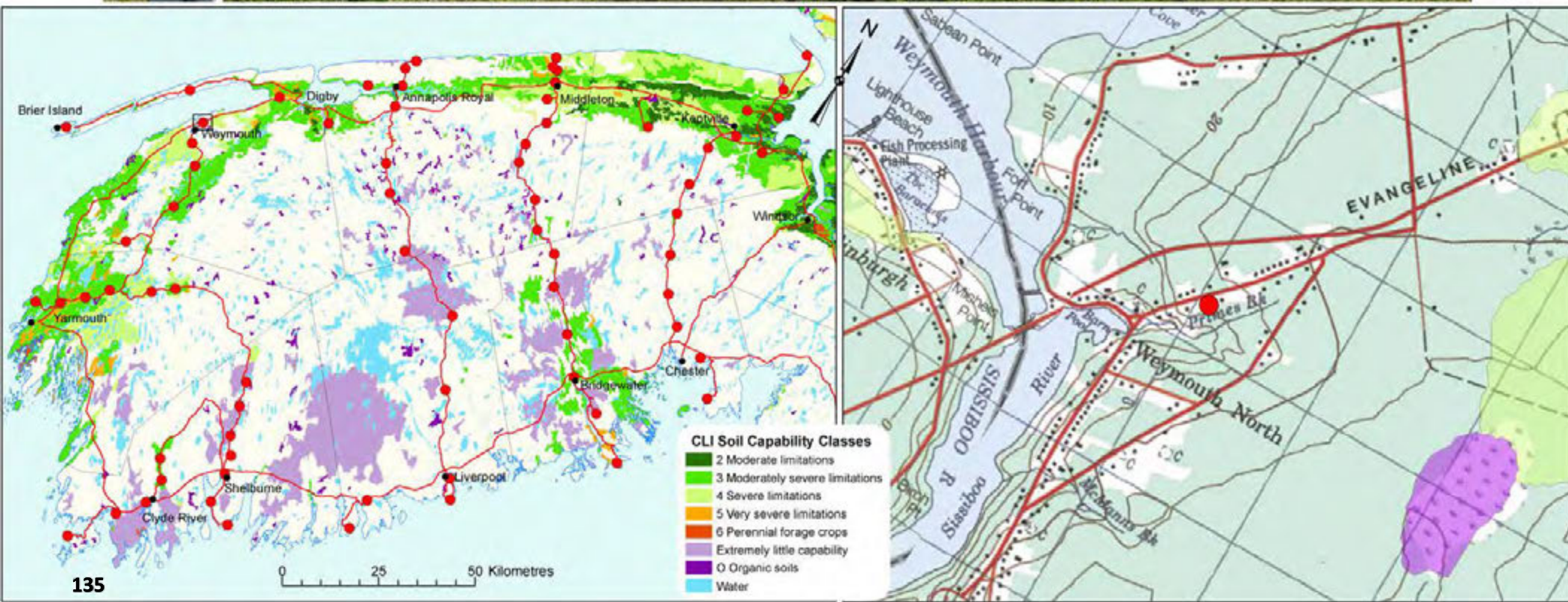


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 11, 2011 | January | 6 [0] | 0 [0] | -16.33 | 13.88 | -2.64 | -4.01 | 35.02 | 1.13 | 1.38 |
| | February | 0 [0] | 0 [0] | -15.02 | 10.69 | -2.08 | -2.85 | 54.50 | 1.95 | 2.09 |
| | March | 5 [0] | 0 [0] | -9.75 | 11.47 | 1.60 | 0.94 | 92.17 | 2.97 | 3.08 |
| | April | 41 [0] | 1 [0] | -3.75 | 17.11 | 5.17 | 5.17 | 127.91 | 4.26 | 4.23 |
| Frost Free Start: May 05, 2013 06:37 | May | 182 [166] | 49 [48] | -1.19 | 23.30 | 10.61 | 10.87 | 152.14 | 4.91 | 4.84 |
| | June | 299 [299] | 149 [149] | 4.58 | 25.62 | 14.51 | 15.57 | 144.30 | 4.81 | 4.78 |
| | July | 447 [447] | 292 [292] | 9.71 | 30.82 | 18.92 | 20.09 | 155.69 | 5.02 | 4.93 |
| Frost Free End: October 29, 2013 20:20 | August | 404 [404] | 249 [249] | 6.96 | 27.28 | 17.39 | 17.86 | 158.56 | 5.12 | 5.31 |
| | September | 282 [282] | 132 [132] | 3.38 | 23.30 | 14.17 | 14.43 | 97.78 | 3.26 | 3.48 |
| | October | 155 [154] | 36 [36] | -3.99 | 20.20 | 10.05 | 9.65 | 88.12 | 2.84 | 2.96 |
| Frost Free Duration: 177.57 days | November | 44 [0] | 7 [0] | -5.29 | 16.11 | 4.51 | 3.61 | 34.09 | 1.14 | 1.25 |
| | December | 4 [0] | 0 [0] | -14.31 | 11.05 | -1.11 | -2.03 | 20.15 | 0.65 | 0.79 |
| | Totals, Averages or Extremes | 1869 [1752] | 915 [906] | -16.33 | 30.82 | 7.59 | 7.44 | 1,160.43 | 38.06 | 39.12 |

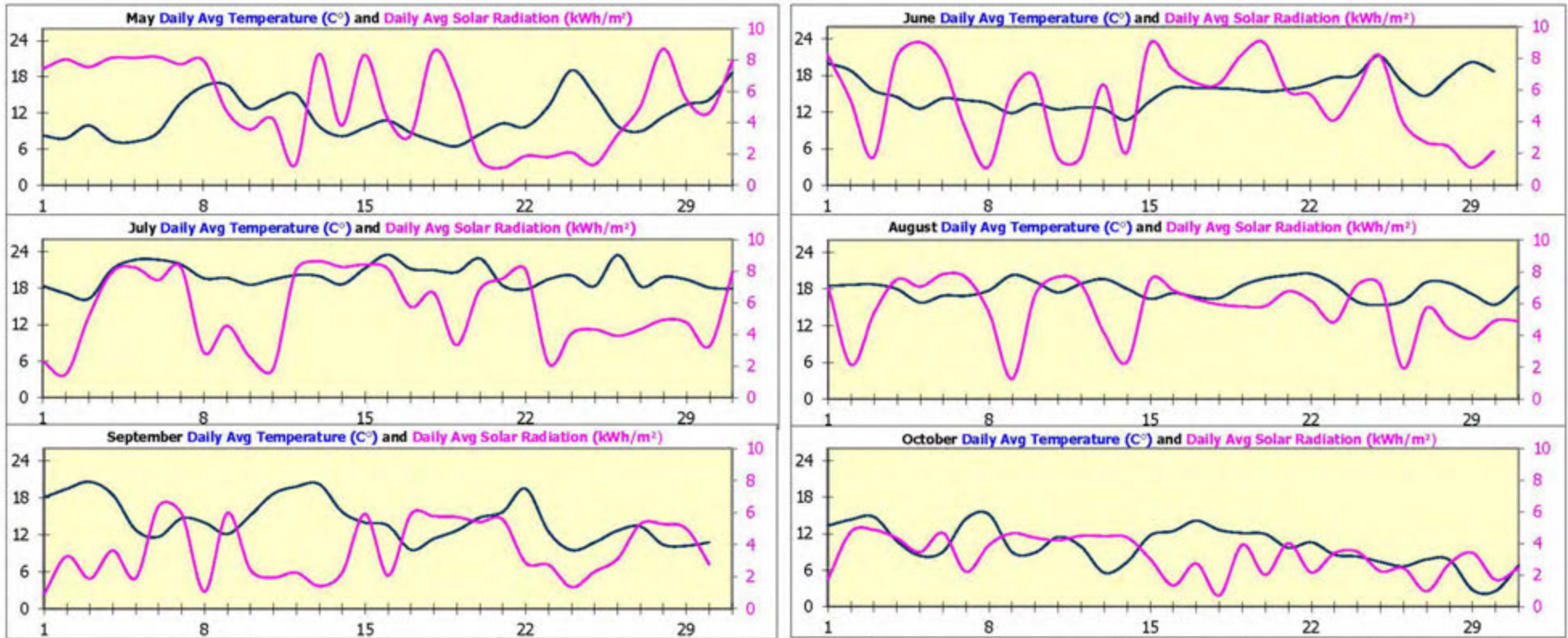
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|----------------|-----------------------|-------------|
| Station ID: | WE2 (O) | Easting: | 262055.721 |
| Location: | Weymouth North | Northing: | 4925286.337 |
| County: | Digby | Height (m): | 36.24 |
| Contact: | Paul Weaver | [UTM Zone 20, NAD 83] | |
| Deployment: | 4/29/2011 | | |



2013 Temperature and Solar Radiation Summary for Station WE2

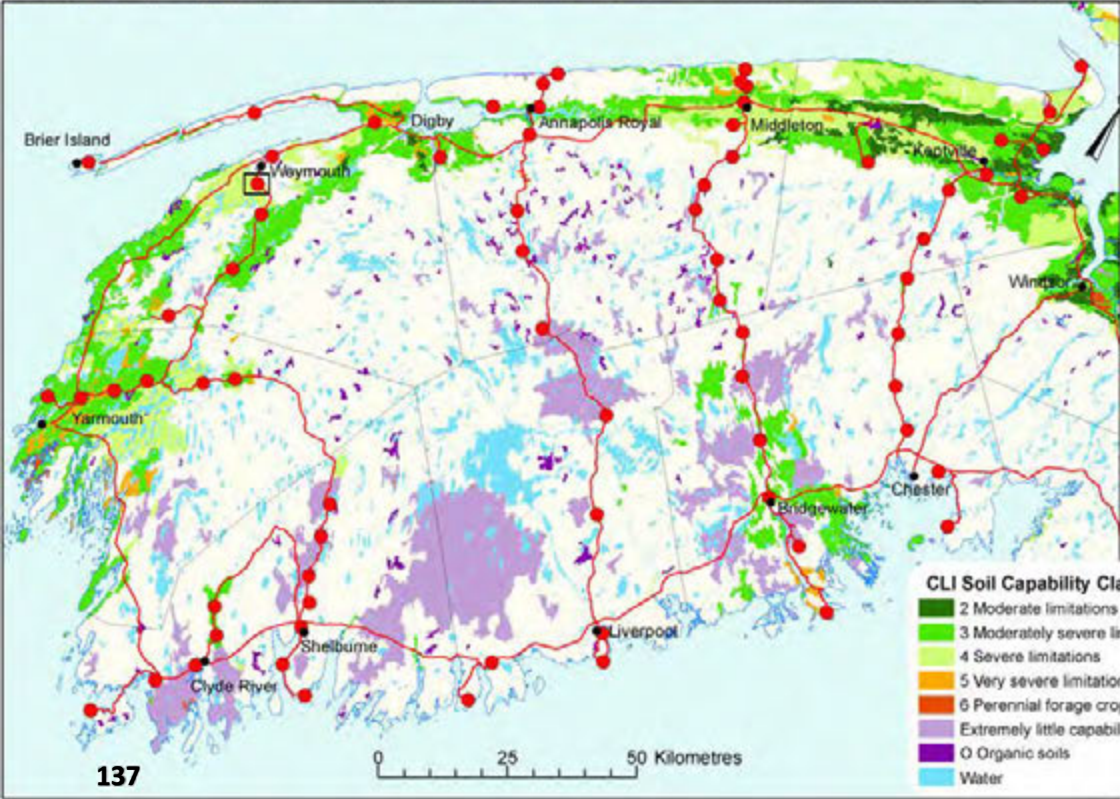


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 29, 2011 | January | 9 [0] | 0 [0] | -15.47 | 16.13 | -2.86 | -4.01 | 37.77 | 1.22 | 1.38 |
| | February | 1 [0] | 0 [0] | -16.00 | 11.83 | -2.39 | -2.85 | 57.09 | 2.04 | 2.09 |
| | March | 6 [0] | 0 [0] | -10.16 | 13.26 | 1.47 | 0.94 | 94.44 | 3.05 | 3.08 |
| | April | 45 [0] | 5 [0] | -4.23 | 19.29 | 5.50 | 5.17 | 130.56 | 4.35 | 4.23 |
| Frost Free Start: May 06, 2013 05:47 | May | 190 [174] | 68 [68] | -1.81 | 26.89 | 11.42 | 10.87 | 151.10 | 4.87 | 4.84 |
| | June | 323 [323] | 173 [173] | 4.84 | 28.32 | 15.55 | 15.57 | 146.88 | 4.90 | 4.78 |
| | July | 465 [465] | 310 [310] | 9.63 | 30.17 | 19.90 | 20.09 | 159.00 | 5.13 | 4.93 |
| Frost Free End: October 29, 2013 19:38 | August | 406 [406] | 251 [251] | 5.10 | 27.63 | 17.93 | 17.86 | 162.67 | 5.25 | 5.31 |
| | September | 286 [286] | 137 [137] | 1.15 | 25.65 | 14.43 | 14.43 | 100.61 | 3.35 | 3.48 |
| | October | 151 [150] | 39 [39] | -3.66 | 21.27 | 9.88 | 9.65 | 91.90 | 2.96 | 2.96 |
| Frost Free Duration: 176.58 days | November | 48 [0] | 11 [0] | -6.58 | 19.06 | 4.25 | 3.61 | 36.02 | 1.20 | 1.25 |
| | December | 6 [0] | 0 [0] | -14.63 | 12.70 | -1.39 | -2.03 | 22.67 | 0.73 | 0.79 |
| | Totals, Averages or Extremes | 1936 [1804] | 994 [978] | -16.00 | 30.17 | 7.81 | 7.44 | 1,190.71 | 39.05 | 39.12 |

South West NS Temperature and Solar Radiation Study

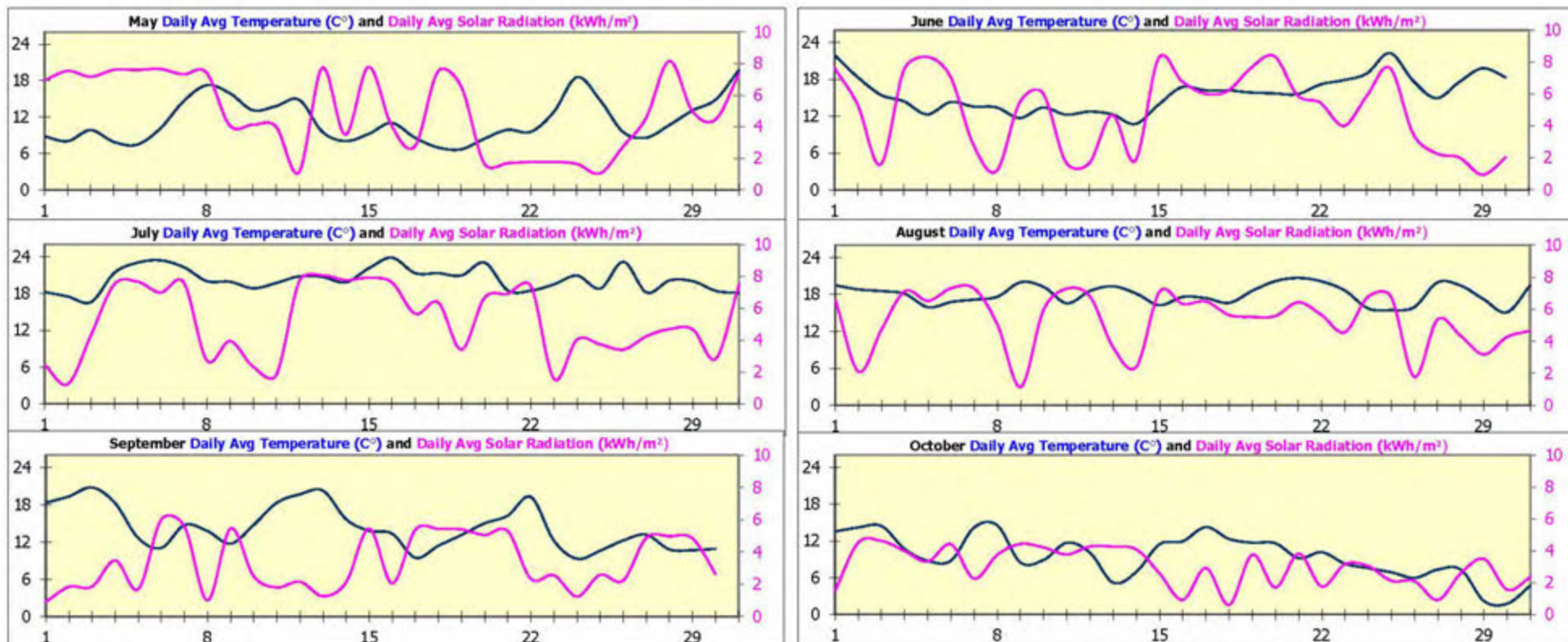
Station Description

| | | | |
|-------------|-------------------|-----------------------|-------------|
| Station ID: | WE3 (O) | Easting: | 262308.915 |
| Location: | Weaver Settlement | Northing: | 4919209.907 |
| County: | Digby | Height (m): | 76.24 |
| Contact: | Andrew Weaver | [UTM Zone 20, NAD 83] | |
| Deployment: | 4/21/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station WE3

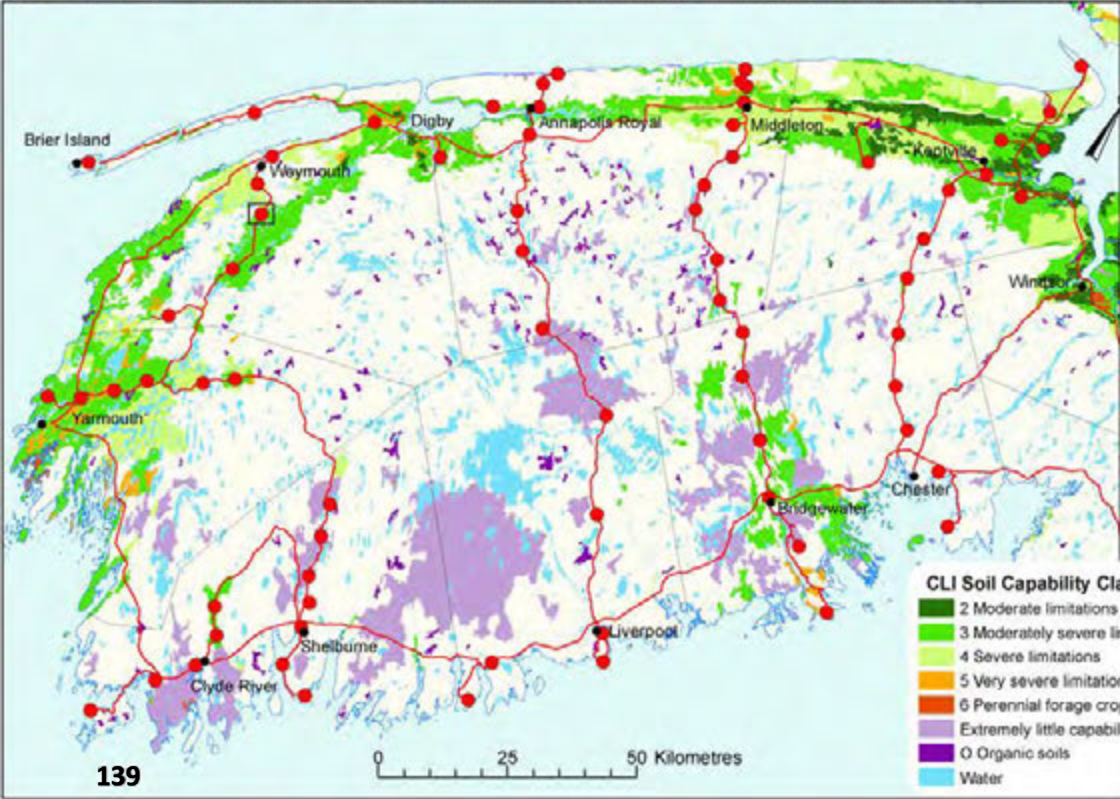


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 8 [0] | 0 [0] | -17.30 | 15.48 | -3.15 | -4.01 | 31.92 | 1.03 | 1.38 |
| Station Deployment: | February | 1 [0] | 0 [0] | -17.00 | 10.44 | -2.58 | -2.85 | 47.06 | 1.68 | 2.09 |
| April 21, 2011 | March | 6 [0] | 0 [0] | -10.20 | 12.87 | 1.28 | 0.94 | 80.63 | 2.60 | 3.08 |
| | April | 44 [0] | 4 [0] | -3.96 | 19.03 | 5.35 | 5.17 | 127.59 | 4.25 | 4.23 |
| Frost Free Start: | May | 198 [91] | 71 [34] | -1.78 | 27.16 | 11.37 | 10.87 | 151.99 | 4.90 | 4.84 |
| May 19, 2013 02:06 | June | 332 [332] | 182 [182] | 5.28 | 31.13 | 15.73 | 15.57 | 143.74 | 4.79 | 4.78 |
| | July | 481 [481] | 326 [326] | 10.00 | 30.87 | 20.28 | 20.09 | 158.04 | 5.10 | 4.93 |
| Frost Free End: | August | 412 [412] | 257 [257] | 5.28 | 27.82 | 18.01 | 17.86 | 161.74 | 5.22 | 5.31 |
| October 13, 2013 07:11 | September | 284 [284] | 135 [135] | 2.05 | 25.26 | 14.38 | 14.43 | 98.62 | 3.29 | 3.48 |
| | October | 143 [77] | 35 [21] | -3.93 | 21.01 | 9.53 | 9.65 | 91.28 | 2.94 | 2.96 |
| Frost Free Duration: | November | 44 [0] | 12 [0] | -6.99 | 19.01 | 3.91 | 3.61 | 36.74 | 1.22 | 1.25 |
| 147.21 days | December | 5 [0] | 0 [0] | -14.71 | 12.56 | -1.57 | -2.03 | 22.38 | 0.72 | 0.79 |
| | Totals, Averages or Extremes | 1958 [1677] | 1022 [955] | -17.30 | 31.13 | 7.71 | 7.44 | 1,151.73 | 37.75 | 39.12 |

South West NS Temperature and Solar Radiation Study

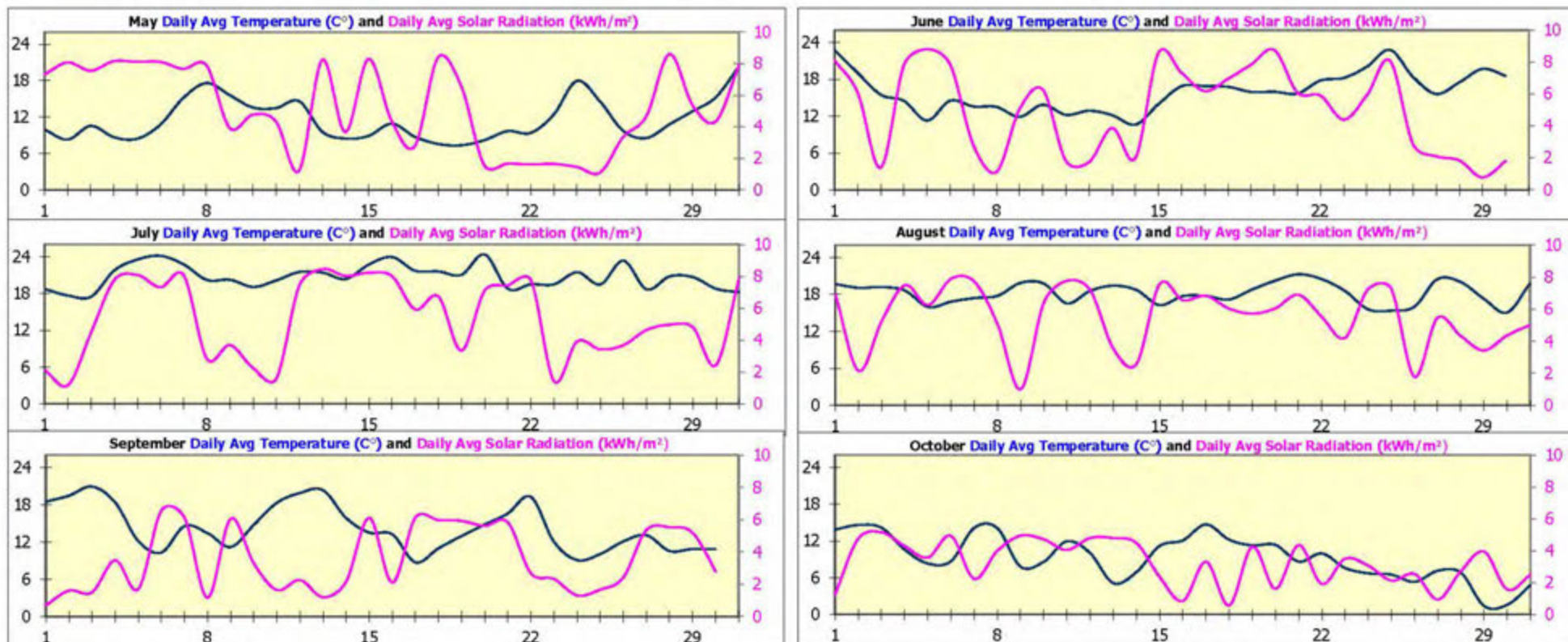
Station Description

| | | | |
|-------------|------------------------|-----------------------|-------------|
| Station ID: | WE4 (O) | Easting: | 265906.968 |
| Location: | Hassett | Northing: | 4914573.475 |
| County: | Digby | Height (m): | 82.43 |
| Contact: | Nellie & David Russell | [UTM Zone 20, NAD 83] | |
| Deployment: | 4/29/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station WE4

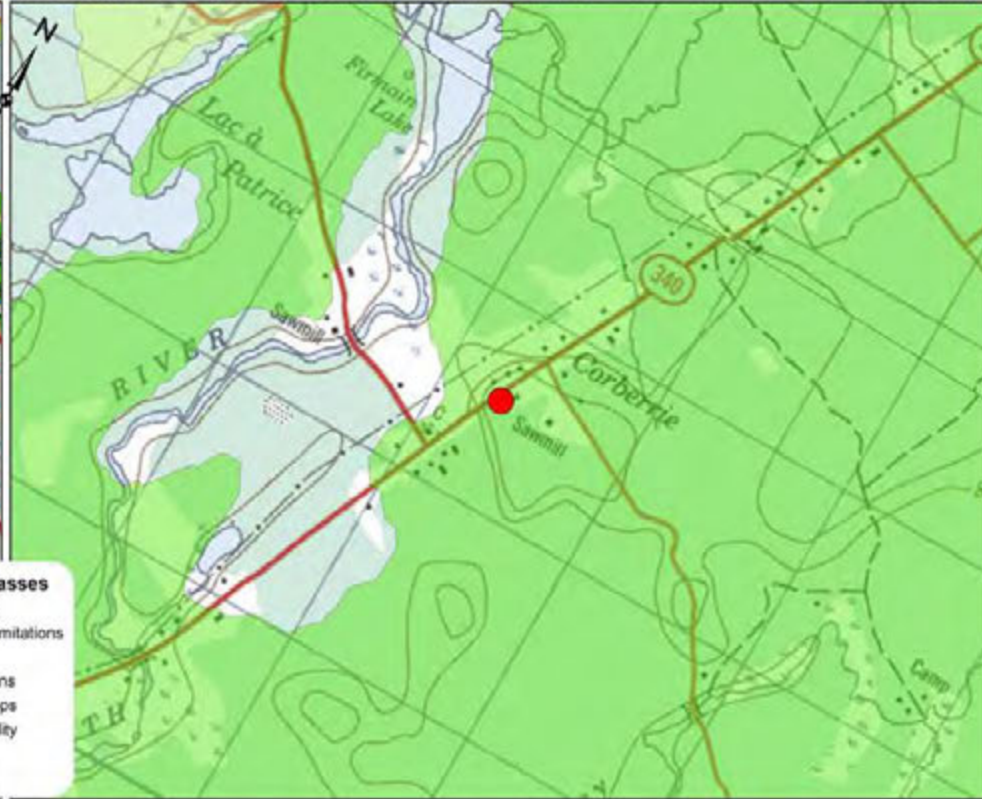
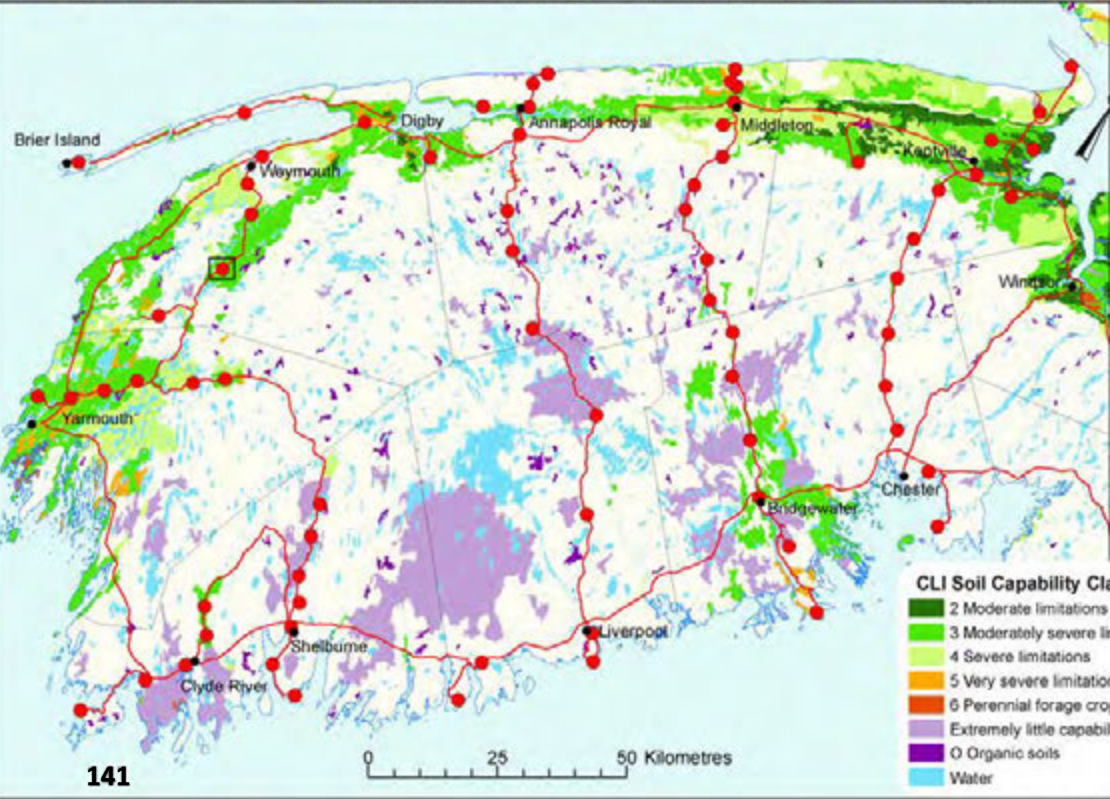


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 29, 2011 | January | 6 [0] | 0 [0] | -19.79 | 15.39 | -3.50 | -4.01 | 42.53 | 1.37 | 1.38 |
| | February | 1 [0] | 0 [0] | -21.08 | 12.39 | -2.70 | -2.85 | 59.30 | 2.12 | 2.09 |
| | March | 4 [0] | 0 [0] | -10.72 | 13.88 | 1.18 | 0.94 | 92.96 | 3.00 | 3.08 |
| | April | 51 [0] | 4 [0] | -6.42 | 20.98 | 5.46 | 5.17 | 126.57 | 4.22 | 4.23 |
| Frost Free Start: May 19, 2013 02:50 | May | 208 [91] | 73 [35] | -2.65 | 28.47 | 11.55 | 10.87 | 148.54 | 4.79 | 4.84 |
| | June | 342 [342] | 192 [192] | 5.05 | 32.72 | 15.98 | 15.57 | 137.19 | 4.57 | 4.78 |
| | July | 504 [504] | 349 [349] | 9.98 | 31.43 | 20.76 | 20.09 | 150.50 | 4.85 | 4.93 |
| Frost Free End: October 29, 2013 06:10 | August | 422 [422] | 267 [267] | 5.21 | 29.32 | 18.23 | 17.86 | 156.68 | 5.05 | 5.31 |
| | September | 289 [289] | 141 [141] | 0.72 | 25.48 | 14.25 | 14.43 | 97.38 | 3.25 | 3.48 |
| | October | 145 [145] | 39 [39] | -4.50 | 23.47 | 9.30 | 9.65 | 91.51 | 2.95 | 2.96 |
| Frost Free Duration: 163.14 days | November | 44 [0] | 9 [0] | -8.53 | 18.87 | 3.63 | 3.61 | 37.55 | 1.25 | 1.25 |
| | December | 4 [0] | 0 [0] | -15.06 | 11.98 | -1.86 | -2.03 | 24.64 | 0.79 | 0.79 |
| | Totals, Averages or Extremes | 2020 [1793] | 1074 [1023] | -21.08 | 32.72 | 7.69 | 7.44 | 1,165.35 | 38.22 | 39.12 |

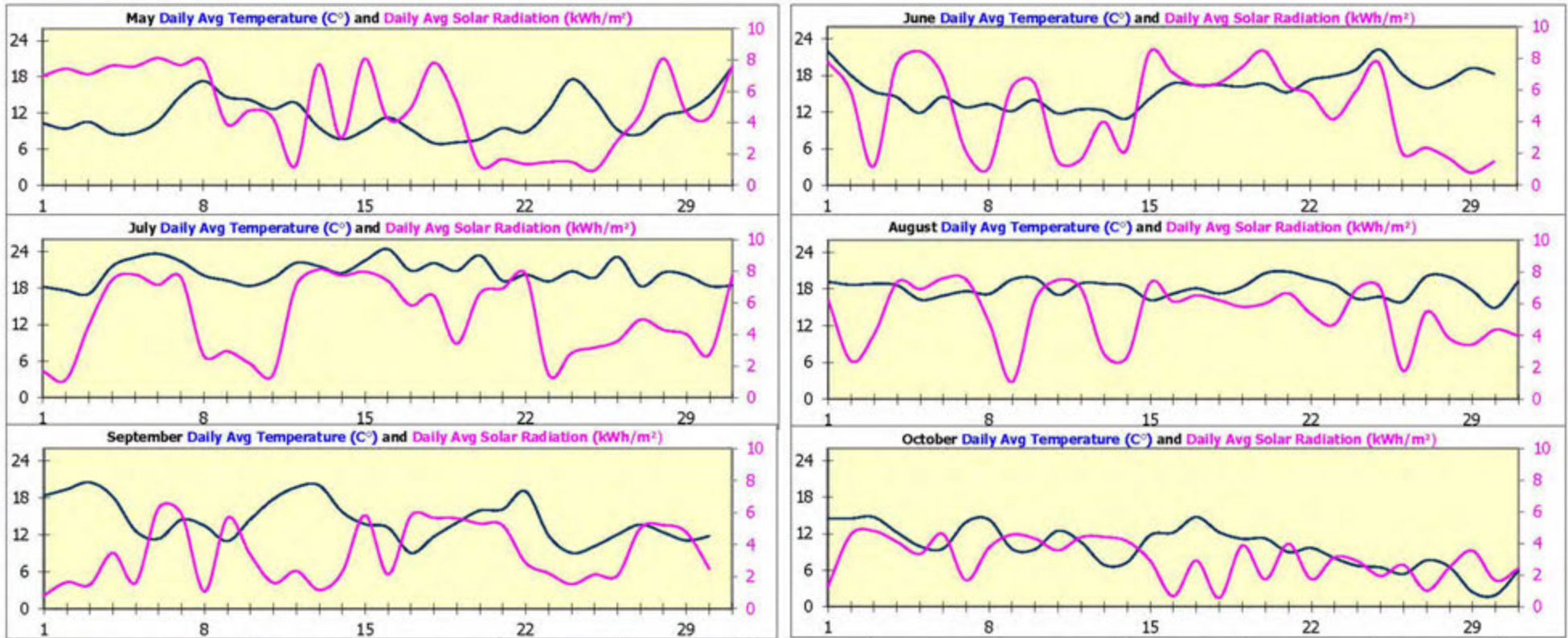
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|--------------|-----------------------|-------------|
| Station ID: | WE5 (O) | Easting: | 266306.648 |
| Location: | Corberrie | Northing: | 4902549.537 |
| County: | Digby | Height (m): | 96.51 |
| Contact: | Kevin Gaudet | [UTM Zone 20, NAD 83] | |
| Deployment: | 4/29/2011 | | |

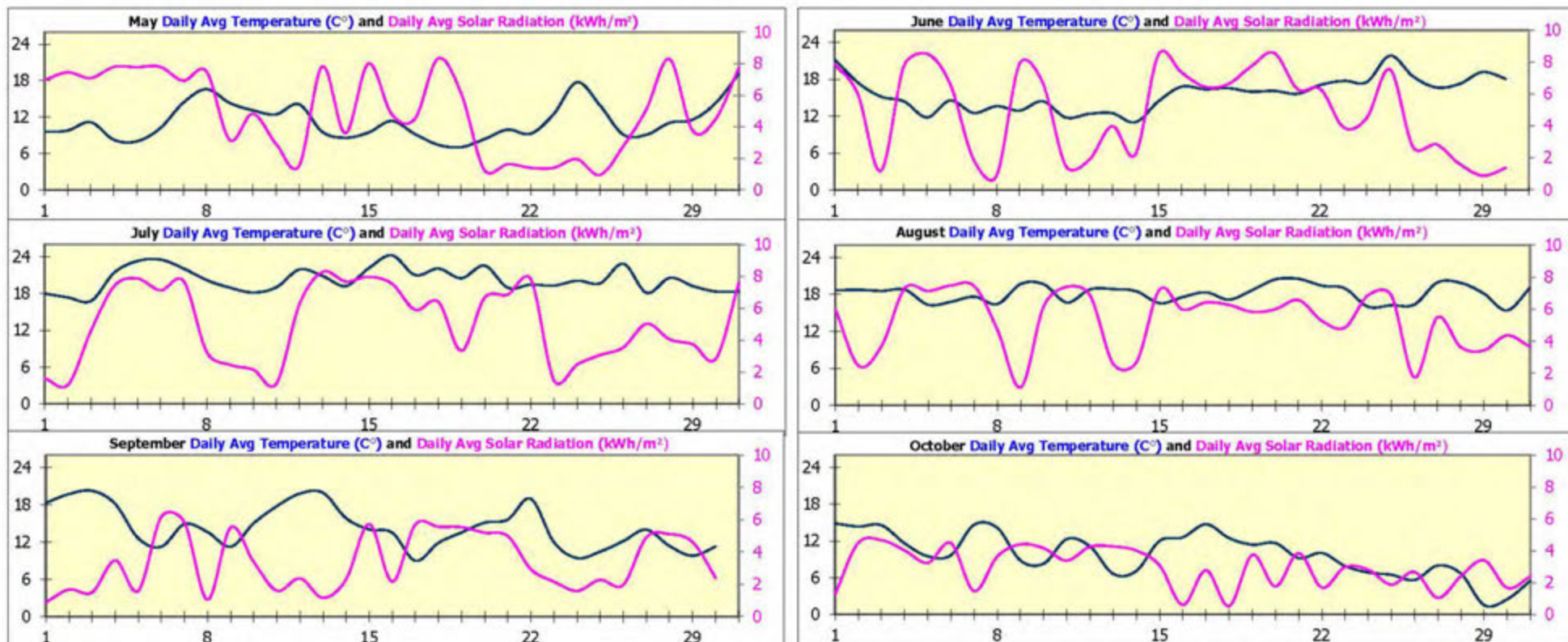


2013 Temperature and Solar Radiation Summary for Station WE5



| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 29, 2011 | January | 7 [0] | 0 [0] | -17.00 | 15.18 | -3.52 | -4.01 | 39.40 | 1.27 | 1.38 |
| | February | 1 [0] | 0 [0] | -20.31 | 10.83 | -2.66 | -2.85 | 56.29 | 2.01 | 2.09 |
| | March | 5 [0] | 0 [0] | -10.51 | 12.51 | 1.12 | 0.94 | 90.97 | 2.93 | 3.08 |
| | April | 53 [0] | 4 [0] | -4.14 | 19.03 | 5.42 | 5.17 | 125.10 | 4.17 | 4.23 |
| Frost Free Start: May 06, 2013 07:05 | May | 211 [183] | 71 [70] | -0.42 | 28.15 | 11.37 | 10.87 | 270.00 | 8.71 | 4.84 |
| | June | 341 [341] | 191 [191] | 6.96 | 32.00 | 15.77 | 15.57 | 143.17 | 4.77 | 4.78 |
| | July | 500 [500] | 345 [345] | 11.44 | 31.41 | 20.54 | 20.09 | 153.63 | 4.96 | 4.93 |
| Frost Free End: October 30, 2013 02:11 | August | 426 [426] | 271 [271] | 7.59 | 28.57 | 18.19 | 17.86 | 162.93 | 5.26 | 5.31 |
| | September | 288 [288] | 140 [140] | 2.88 | 26.04 | 14.40 | 14.43 | 101.21 | 3.37 | 3.48 |
| | October | 162 [160] | 45 [45] | -2.39 | 22.23 | 9.77 | 9.65 | 91.96 | 2.97 | 2.96 |
| Frost Free Duration: 176.8 days | November | 43 [0] | 10 [0] | -7.93 | 18.96 | 3.64 | 3.61 | 36.29 | 1.21 | 1.25 |
| | December | 5 [0] | 0 [0] | -15.35 | 12.05 | -1.87 | -2.03 | 23.25 | 0.75 | 0.79 |
| | Totals, Averages or Extremes | 2042 [1898] | 1077 [1062] | -20.31 | 32.00 | 7.68 | 7.44 | 1,294.20 | 42.38 | 39.12 |

2013 Temperature and Solar Radiation Summary for Station WE6



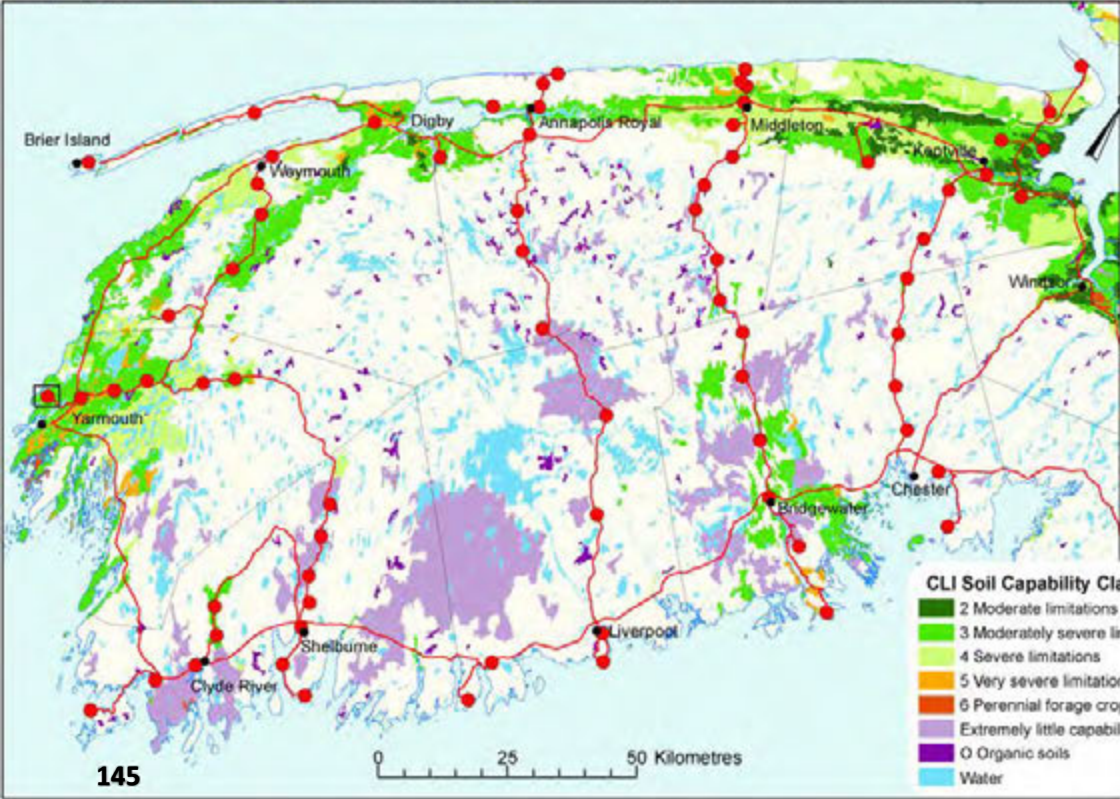
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 11, 2011 | January | 7 [0] | 0 [0] | -17.81 | 14.89 | -3.08 | -4.01 | 38.86 | 1.25 | 1.38 |
| | February | 0 [0] | 0 [0] | -18.92 | 10.44 | -2.37 | -2.85 | 56.59 | 2.02 | 2.09 |
| | March | 5 [0] | 0 [0] | -10.02 | 12.92 | 1.39 | 0.94 | 92.83 | 2.99 | 3.08 |
| | April | 49 [0] | 4 [0] | -5.48 | 19.58 | 5.45 | 5.17 | 124.97 | 4.17 | 4.23 |
| Frost Free Start: May 06, 2013 06:51 | May | 208 [179] | 69 [67] | -0.76 | 27.95 | 11.31 | 10.87 | 150.65 | 4.86 | 4.84 |
| | June | 339 [339] | 189 [189] | 6.36 | 30.62 | 15.73 | 15.57 | 143.50 | 4.78 | 4.78 |
| | July | 481 [481] | 326 [326] | 10.35 | 32.61 | 20.25 | 20.09 | 150.02 | 4.84 | 4.93 |
| Frost Free End: October 29, 2013 05:31 | August | 421 [421] | 266 [266] | 6.74 | 28.82 | 18.16 | 17.86 | 158.42 | 5.11 | 5.31 |
| | September | 287 [287] | 139 [139] | 1.21 | 25.77 | 14.36 | 14.43 | 98.28 | 3.28 | 3.48 |
| Frost Free Duration: 175.94 days | October | 156 [155] | 43 [43] | -3.57 | 22.82 | 9.78 | 9.65 | 88.23 | 2.85 | 2.96 |
| | November | 42 [0] | 10 [0] | -8.93 | 18.32 | 3.81 | 3.61 | 35.23 | 1.17 | 1.25 |
| | December | 6 [0] | 0 [0] | -16.20 | 12.44 | -1.38 | -2.03 | 23.75 | 0.77 | 0.79 |
| | Totals, Averages or Extremes | 2001 [1862] | 1046 [1030] | -18.92 | 32.61 | 7.78 | 7.44 | 1,161.33 | 38.09 | 39.12 |

South West NS Temperature and Solar Radiation Study

Station Description

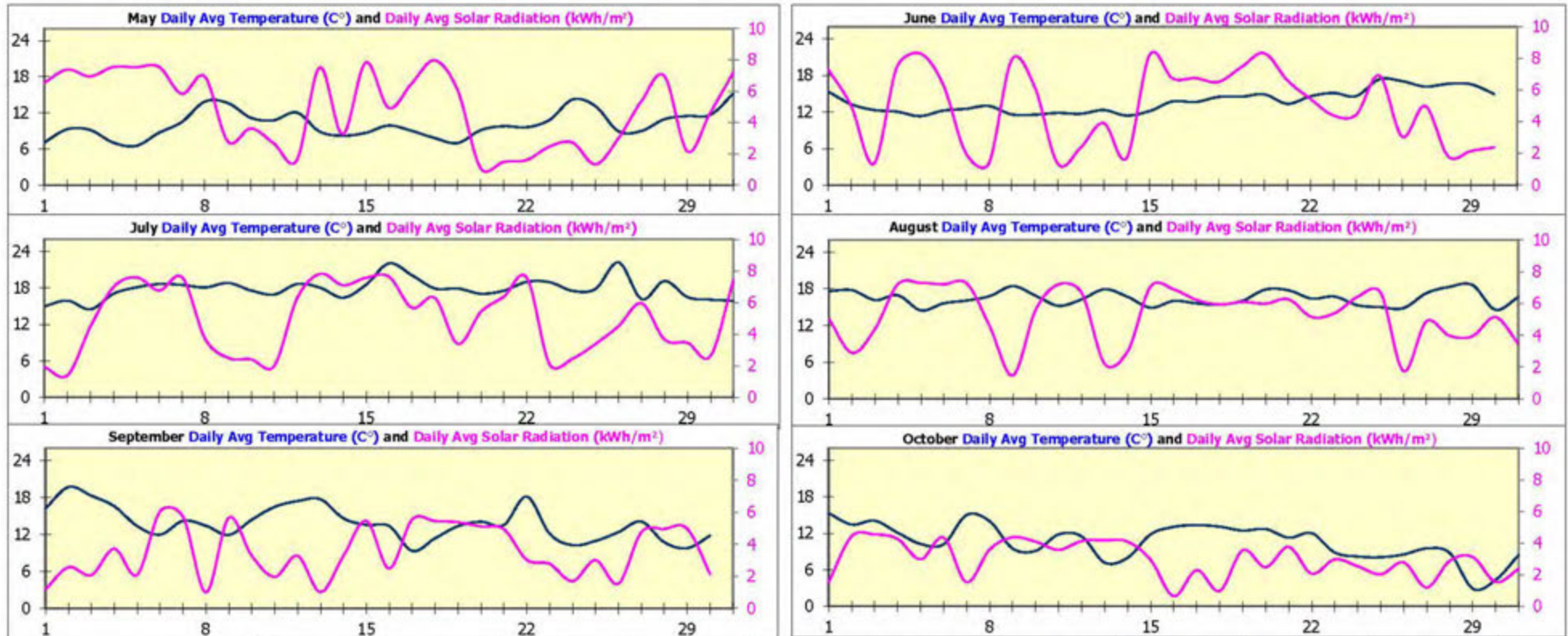
Station ID: YA1 (O)
Location: Chegoggin
County: Yarmouth
Contact: Chris Tedford
Deployment: 4/20/2011

Easting: 247627.771
Northing: 4863309.799
Height (m): 18.49
[UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station YA1

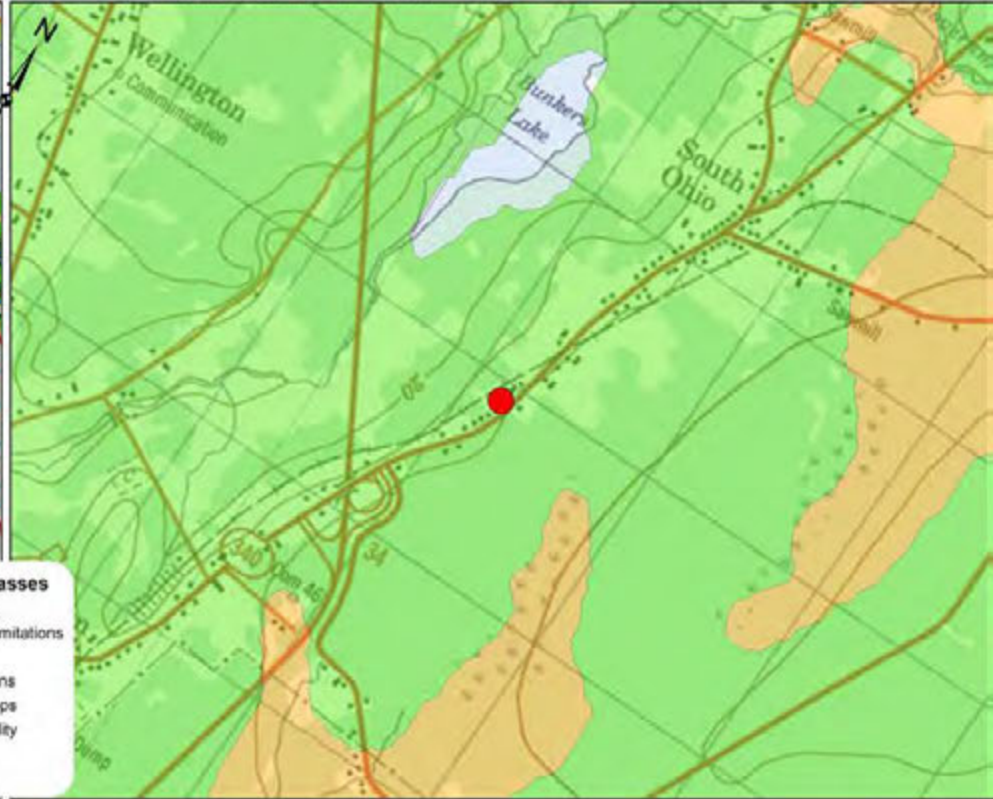
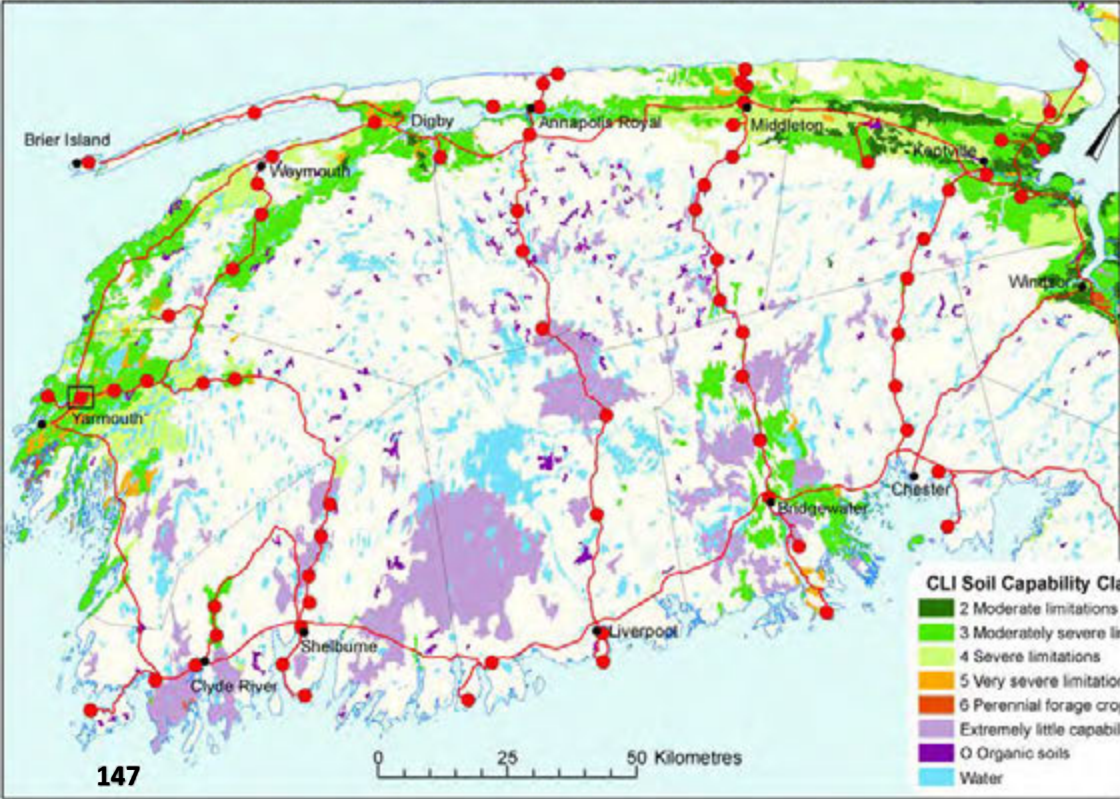


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|-------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 6 [0] | 0 [0] | -13.20 | 10.59 | -1.58 | -4.01 | 39.80 | 1.28 | 1.38 |
| Station Deployment: | February | 1 [0] | 0 [0] | -15.43 | 10.27 | -1.47 | -2.85 | 60.12 | 2.15 | 2.09 |
| April 20, 2011 | March | 4 [0] | 0 [0] | -8.66 | 11.22 | 1.74 | 0.94 | 100.04 | 3.23 | 3.08 |
| | April | 32 [6] | 0 [0] | -3.12 | 14.77 | 5.10 | 5.17 | 131.91 | 4.40 | 4.23 |
| Frost Free Start: | May | 168 [168] | 38 [38] | 0.47 | 22.01 | 10.11 | 10.87 | 153.07 | 4.94 | 4.84 |
| April 28, 2013 06:10 | June | 276 [276] | 126 [126] | 7.19 | 23.76 | 13.75 | 15.57 | 151.08 | 5.04 | 4.78 |
| | July | 414 [414] | 259 [259] | 10.37 | 29.82 | 17.81 | 20.09 | 155.83 | 5.03 | 4.93 |
| Frost Free End: | August | 365 [365] | 210 [210] | 8.04 | 23.74 | 16.46 | 17.86 | 165.58 | 5.34 | 5.31 |
| November 04, 2013 23:30 | September | 265 [265] | 116 [116] | 3.85 | 23.62 | 13.85 | 14.43 | 107.84 | 3.59 | 3.48 |
| | October | 177 [177] | 51 [51] | -1.96 | 19.72 | 10.62 | 9.65 | 93.07 | 3.00 | 2.96 |
| Frost Free Duration: | November | 53 [18] | 9 [7] | -5.88 | 16.13 | 5.17 | 3.61 | 37.62 | 1.25 | 1.25 |
| 190.72 days | December | 7 [0] | 0 [0] | -12.75 | 11.47 | -0.01 | -2.03 | 24.38 | 0.79 | 0.79 |
| | Totals, Averages or Extremes | 1768 [1689] | 809 [807] | -15.43 | 29.82 | 7.63 | 7.44 | 1,220.34 | 40.04 | 39.12 |

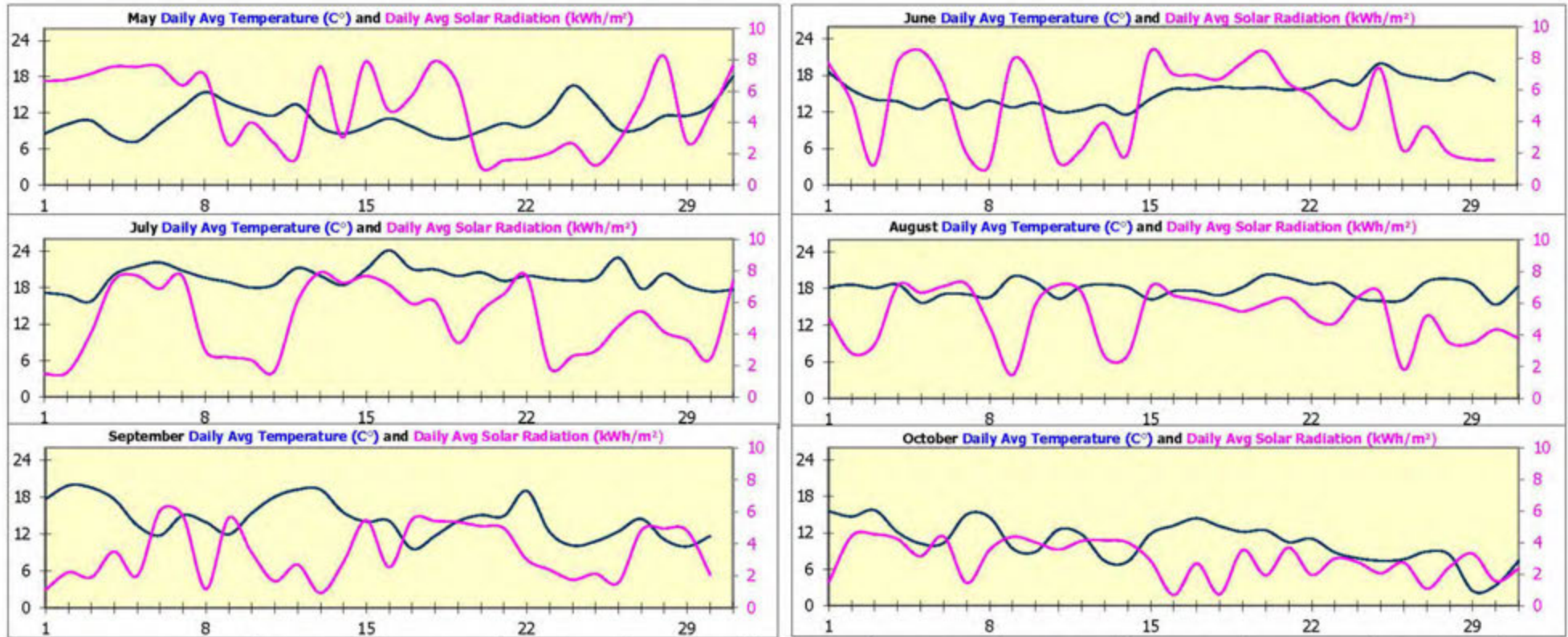
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|-----------------|-----------------------|------------|
| Station ID: | YA2 (O) | Easting: | 253401.898 |
| Location: | South Ohio | Northing: | 4866314.26 |
| County: | Yarmouth | Height (m): | 38.85 |
| Contact: | Truman Hurlburt | [UTM Zone 20, NAD 83] | |
| Deployment: | 4/20/2011 | | |



2013 Temperature and Solar Radiation Summary for Station YA2

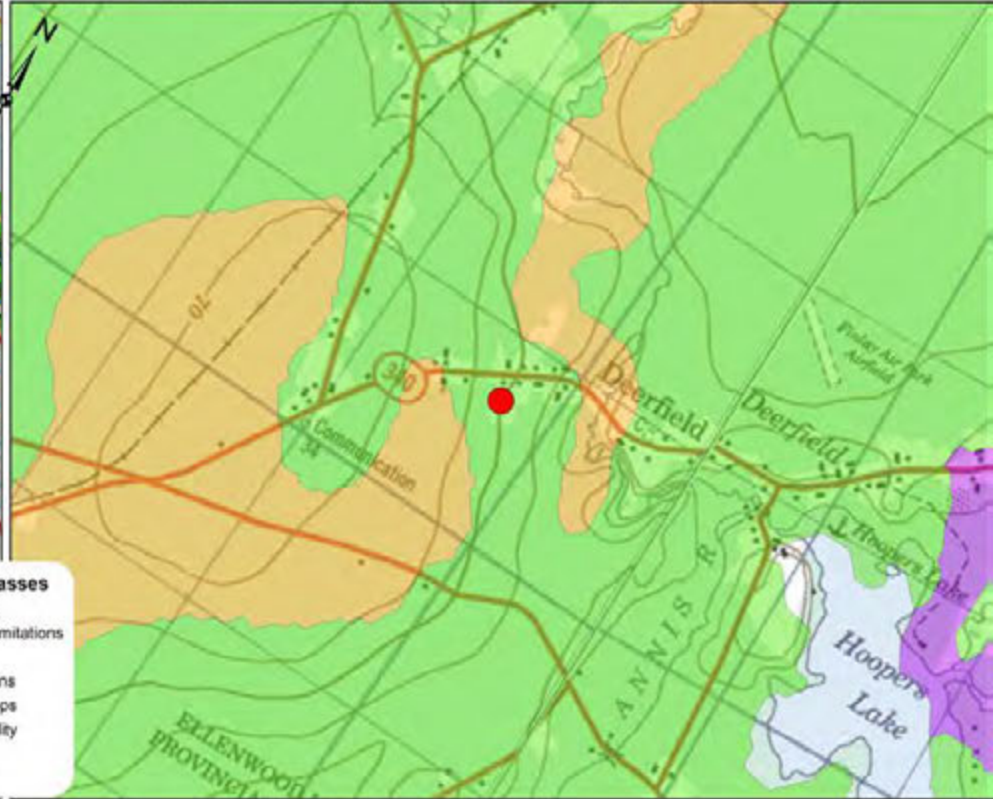
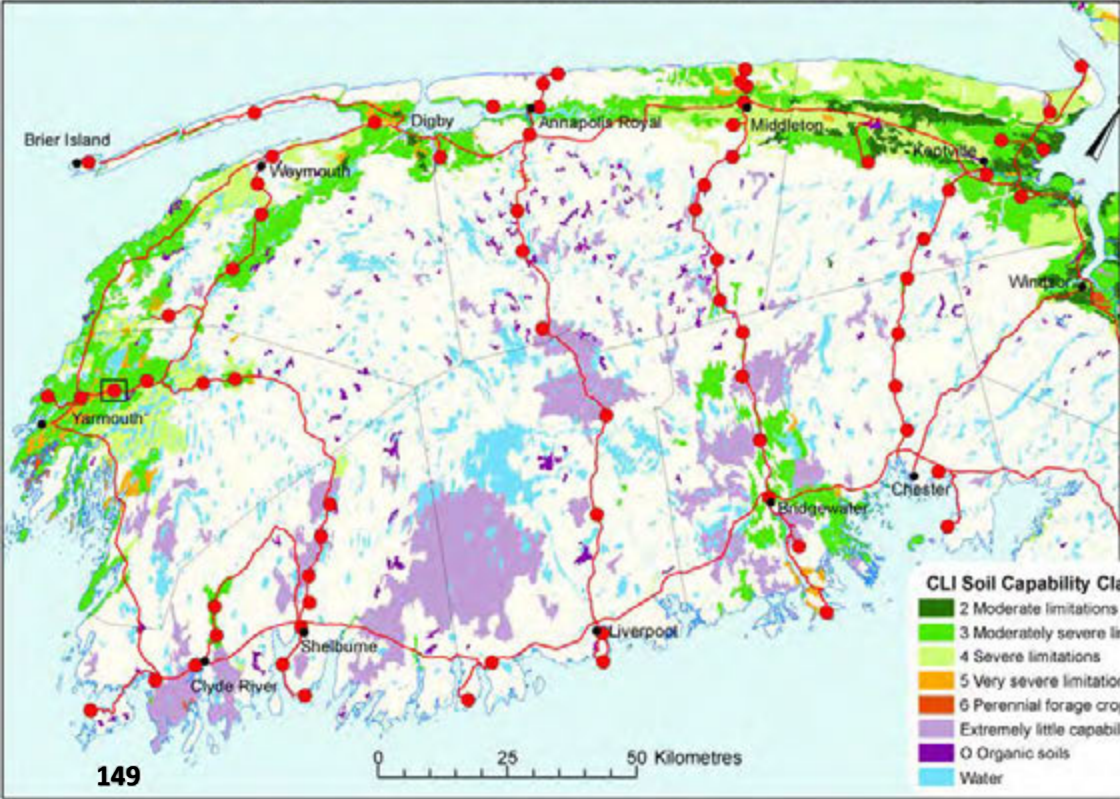


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 20, 2011 | January | 8 [0] | 0 [0] | -14.31 | 12.46 | -1.89 | -4.01 | 38.71 | 1.25 | 1.38 |
| | February | 1 [0] | 0 [0] | -16.20 | 11.35 | -1.60 | -2.85 | 58.47 | 2.09 | 2.09 |
| | March | 4 [0] | 0 [0] | -8.80 | 11.93 | 1.81 | 0.94 | 95.30 | 3.07 | 3.08 |
| | April | 48 [0] | 2 [0] | -4.96 | 18.22 | 5.65 | 5.17 | 127.47 | 4.25 | 4.23 |
| Frost Free Start: May 06, 2013 05:16 | May | 198 [170] | 57 [53] | -0.31 | 26.99 | 11.01 | 10.87 | 151.53 | 4.89 | 4.84 |
| | June | 322 [322] | 172 [172] | 7.22 | 28.22 | 15.25 | 15.57 | 146.73 | 4.89 | 4.78 |
| | July | 471 [471] | 316 [316] | 11.39 | 33.49 | 19.60 | 20.09 | 150.32 | 4.85 | 4.93 |
| Frost Free End: October 29, 2013 22:01 | August | 414 [414] | 259 [259] | 7.04 | 28.02 | 17.88 | 17.86 | 157.70 | 5.09 | 5.31 |
| | September | 290 [290] | 140 [140] | 3.72 | 24.94 | 14.45 | 14.43 | 102.20 | 3.41 | 3.48 |
| Frost Free Duration: 176.7 days | October | 179 [178] | 55 [55] | -3.27 | 21.91 | 10.53 | 9.65 | 90.01 | 2.90 | 2.96 |
| | November | 49 [0] | 10 [0] | -6.58 | 17.18 | 4.76 | 3.61 | 34.66 | 1.16 | 1.25 |
| | December | 8 [0] | 0 [0] | -13.96 | 11.95 | -0.37 | -2.03 | 24.11 | 0.78 | 0.79 |
| | Totals, Averages or Extremes | 1992 [1845] | 1011 [995] | -16.20 | 33.49 | 8.09 | 7.44 | 1,177.21 | 38.62 | 39.12 |

South West NS Temperature and Solar Radiation Study

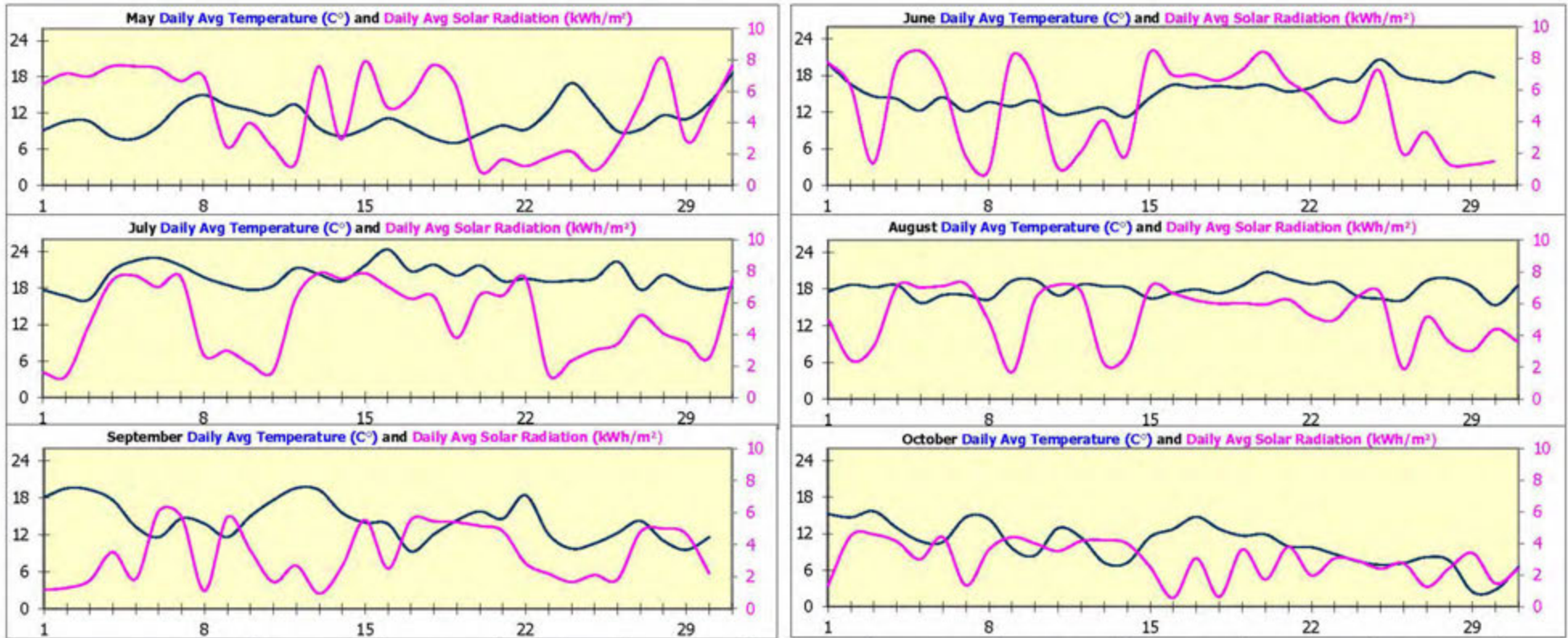
Station Description

| | | | |
|-------------|--------------|-----------------------|-------------|
| Station ID: | YA3 (O) | Easting: | 258300.308 |
| Location: | Deerfield | Northing: | 4870757.698 |
| County: | Yarmouth | Height (m): | 58.28 |
| Contact: | Neil Nicholl | [UTM Zone 20, NAD 83] | |
| Deployment: | 4/19/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station YA3



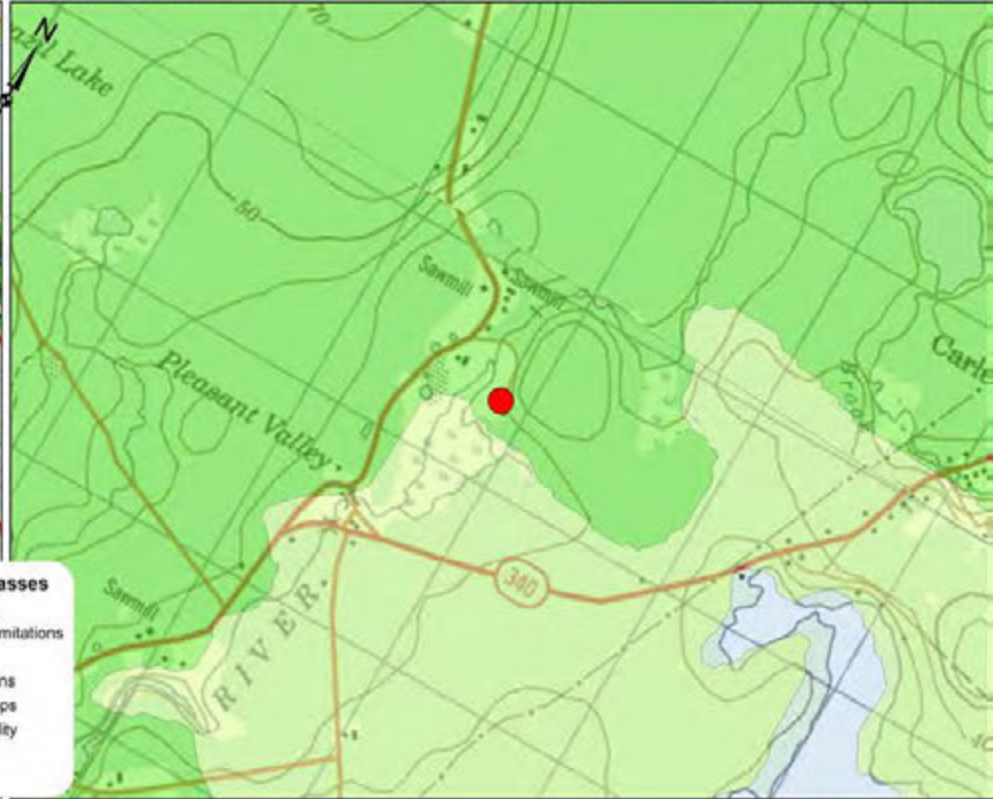
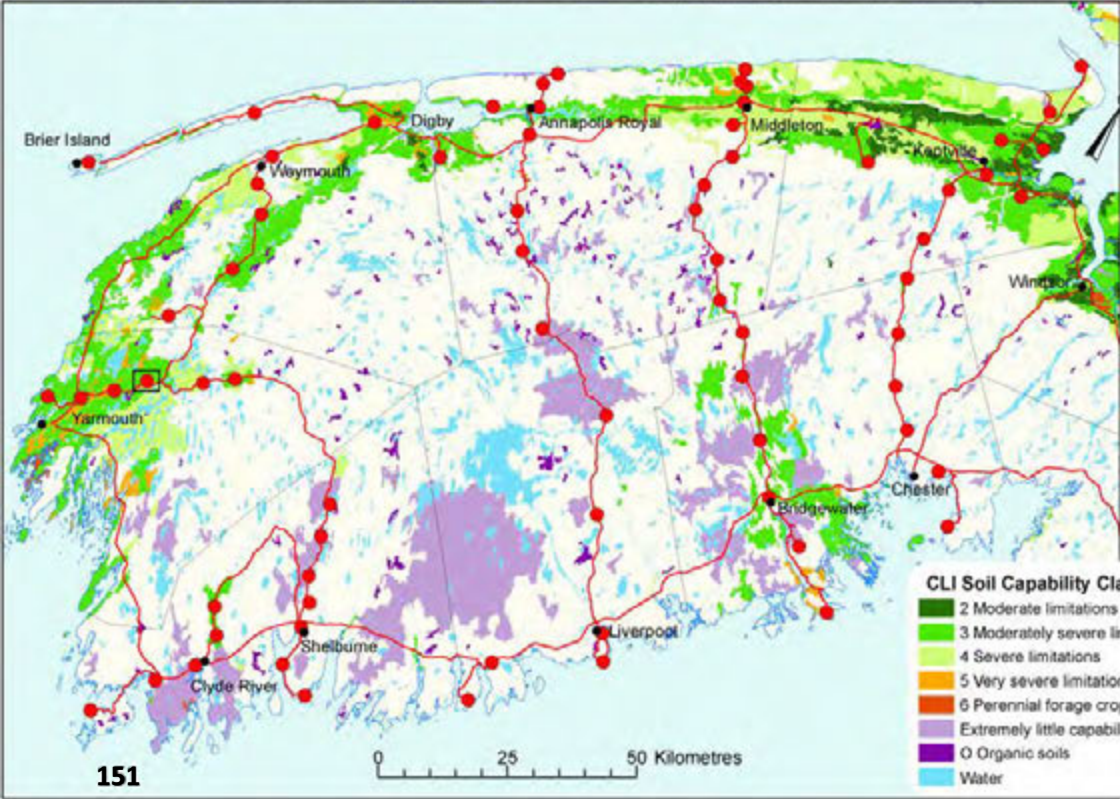
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 19, 2011 | January | 7 [0] | 0 [0] | -16.16 | 13.71 | -2.49 | -4.01 | 39.72 | 1.28 | 1.38 |
| | February | 0 [0] | 0 [0] | -17.99 | 10.56 | -2.01 | -2.85 | 56.56 | 2.02 | 2.09 |
| | March | 4 [0] | 0 [0] | -9.07 | 12.20 | 1.60 | 0.94 | 92.54 | 2.99 | 3.08 |
| | April | 49 [15] | 3 [0] | -4.56 | 18.32 | 5.60 | 5.17 | 123.11 | 4.10 | 4.23 |
| Frost Free Start: April 27, 2013 06:01 | May | 197 [197] | 59 [59] | 0.02 | 27.55 | 10.99 | 10.87 | 145.30 | 4.69 | 4.84 |
| | June | 320 [320] | 170 [170] | 7.39 | 29.39 | 15.43 | 15.57 | 142.27 | 4.74 | 4.78 |
| | July | 472 [472] | 317 [317] | 11.08 | 32.43 | 19.83 | 20.09 | 148.05 | 4.78 | 4.93 |
| Frost Free End: October 29, 2013 22:41 | August | 415 [415] | 260 [260] | 8.22 | 28.34 | 17.97 | 17.86 | 155.06 | 5.00 | 5.31 |
| | September | 287 [287] | 138 [138] | 3.59 | 24.41 | 14.34 | 14.43 | 98.48 | 3.28 | 3.48 |
| | October | 173 [171] | 53 [53] | -3.72 | 22.06 | 10.28 | 9.65 | 88.16 | 2.84 | 2.96 |
| Frost Free Duration: 185.69 days | November | 45 [0] | 11 [0] | -9.00 | 17.80 | 4.26 | 3.61 | 35.54 | 1.19 | 1.25 |
| | December | 8 [0] | 0 [0] | -15.02 | 12.03 | -0.85 | -2.03 | 23.54 | 0.76 | 0.79 |
| | Totals, Averages or Extremes | 1977 [1877] | 1011 [997] | -17.99 | 32.43 | 7.91 | 7.44 | 1,148.33 | 37.67 | 39.12 |

South West NS Temperature and Solar Radiation Study

Station Description

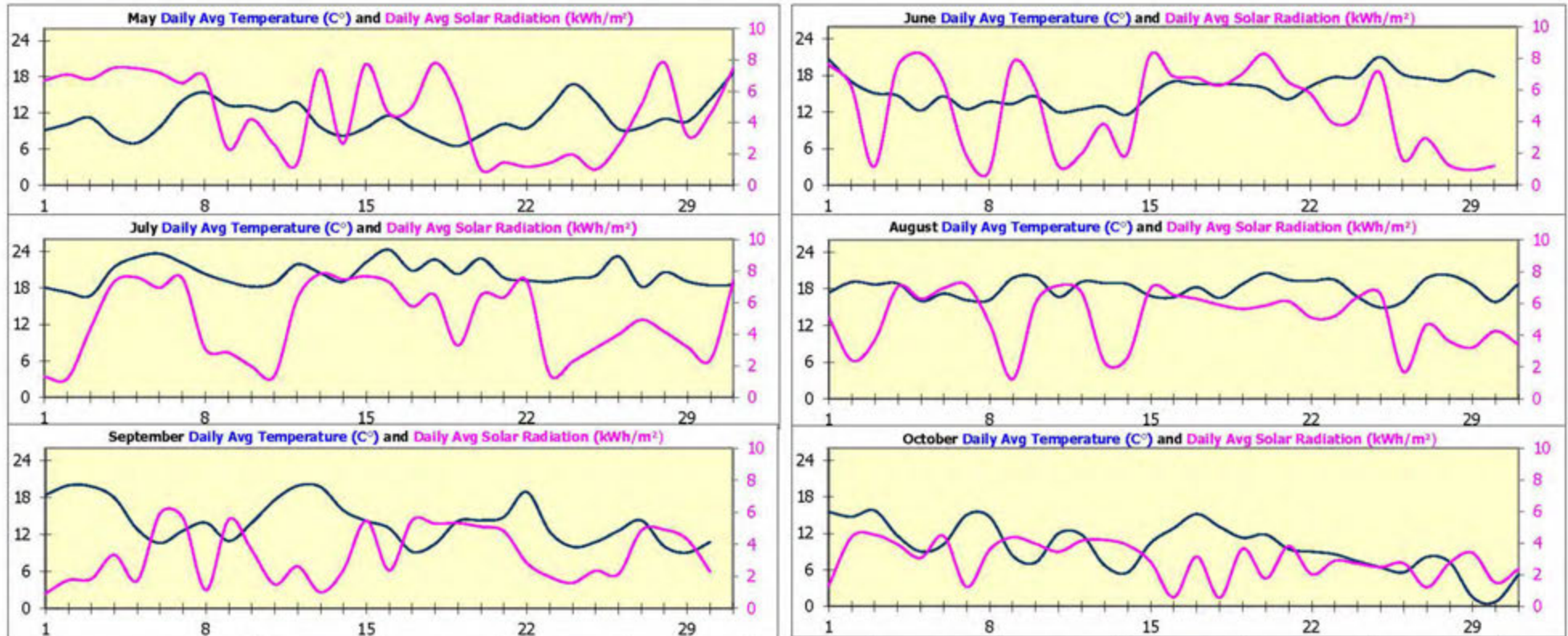
Station ID: YA4 (O)
Location: Pleasant Valley
County: Yarmouth
Contact: Leonard Sabine
Deployment: 4/19/2011

Easting: 262854.078
Northing: 4875443.777
Height (m): 31.38
[UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station YA4



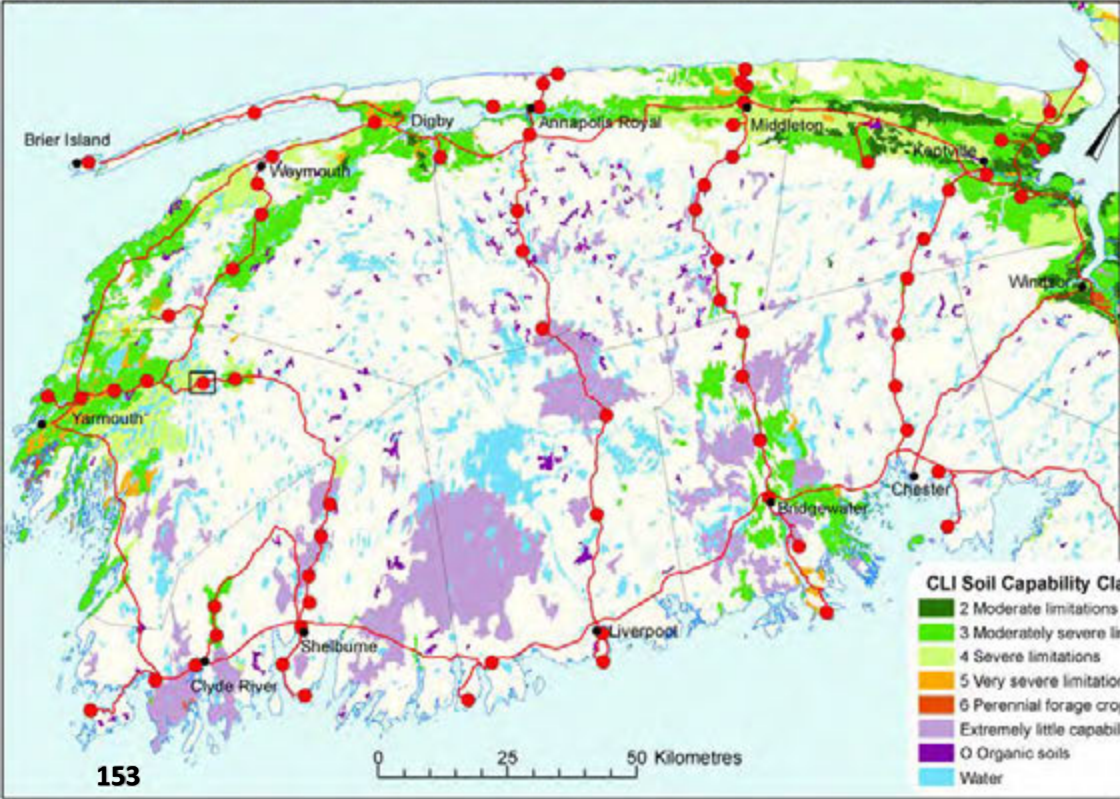
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 19, 2011 | January | 5 [0] | 0 [0] | -20.40 | 13.43 | -2.94 | -4.01 | 39.95 | 1.29 | 1.38 |
| | February | 0 [0] | 0 [0] | -20.03 | 11.05 | -2.21 | -2.85 | 57.27 | 2.05 | 2.09 |
| | March | 4 [0] | 0 [0] | -9.17 | 13.33 | 1.55 | 0.94 | 92.01 | 2.97 | 3.08 |
| | April | 45 [0] | 3 [0] | -6.90 | 19.48 | 5.56 | 5.17 | 123.07 | 4.10 | 4.23 |
| Frost Free Start: May 19, 2013 04:50 | May | 198 [84] | 61 [28] | -2.16 | 28.20 | 11.10 | 10.87 | 143.63 | 4.63 | 4.84 |
| | June | 332 [332] | 182 [182] | 5.31 | 31.03 | 15.70 | 15.57 | 139.98 | 4.67 | 4.78 |
| | July | 485 [485] | 330 [330] | 9.88 | 33.68 | 20.26 | 20.09 | 147.80 | 4.77 | 4.93 |
| Frost Free End: October 26, 2013 05:20 | August | 408 [408] | 253 [253] | 3.93 | 28.47 | 18.04 | 17.86 | 154.53 | 4.99 | 5.31 |
| | September | 275 [275] | 126 [126] | 0.61 | 25.04 | 14.11 | 14.43 | 98.75 | 3.29 | 3.48 |
| Frost Free Duration: 160.02 days | October | 149 [145] | 42 [42] | -5.95 | 23.71 | 9.75 | 9.65 | 89.37 | 2.88 | 2.96 |
| | November | 41 [0] | 11 [0] | -10.02 | 18.75 | 3.85 | 3.61 | 36.18 | 1.21 | 1.25 |
| | December | 7 [0] | 0 [0] | -17.00 | 12.12 | -0.97 | -2.03 | 24.70 | 0.80 | 0.79 |
| | Totals, Averages or Extremes | 1949 [1729] | 1008 [961] | -20.40 | 33.68 | 7.82 | 7.44 | 1,147.24 | 37.63 | 39.12 |

South West NS Temperature and Solar Radiation Study

Station Description

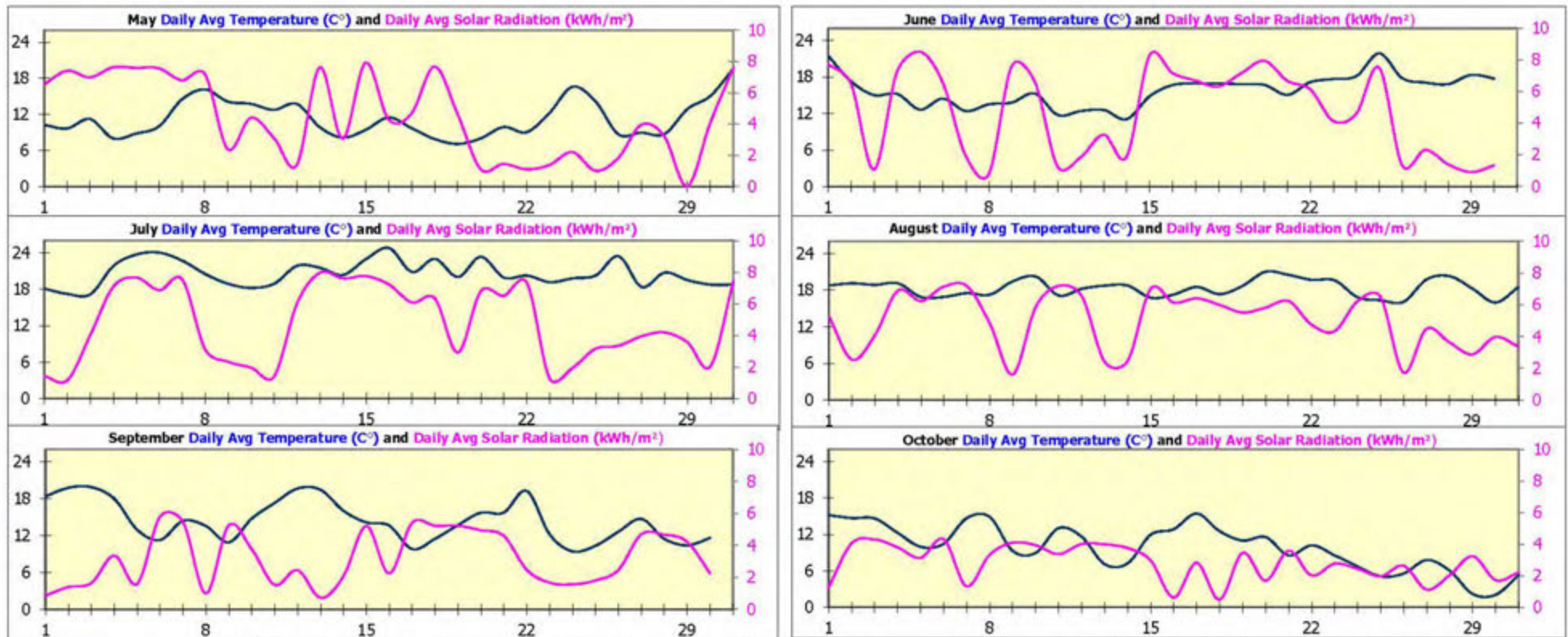
Station ID: YA5 (O)
Location: Kemptville
County: Yarmouth
Contact: Kyle Roberts
Deployment: 4/20/2011

Easting: 272445.867
Northing: 4880596.155
Height (m): 74.41
[UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station YA5

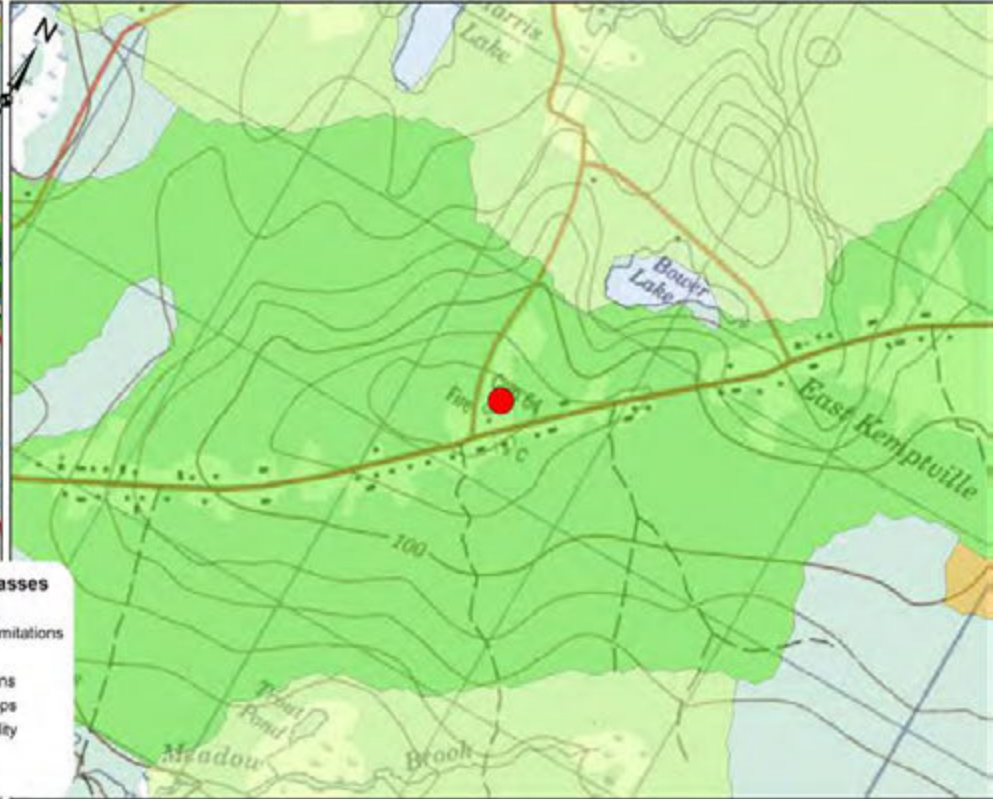
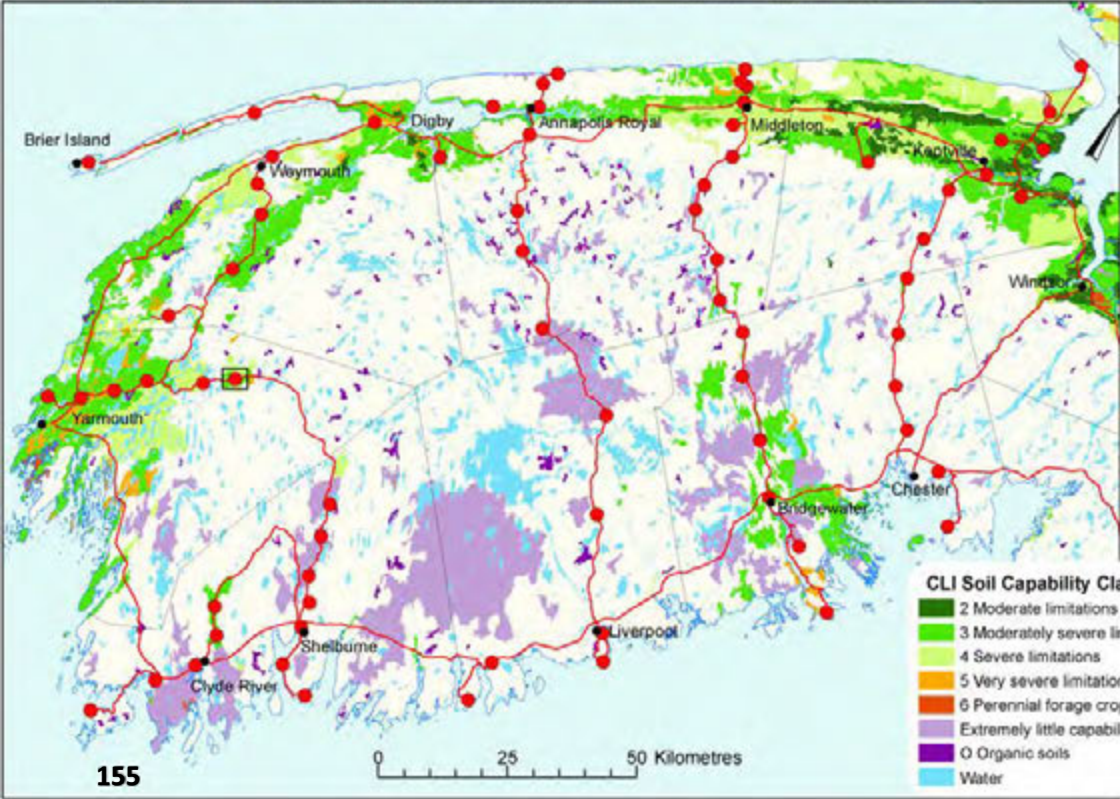
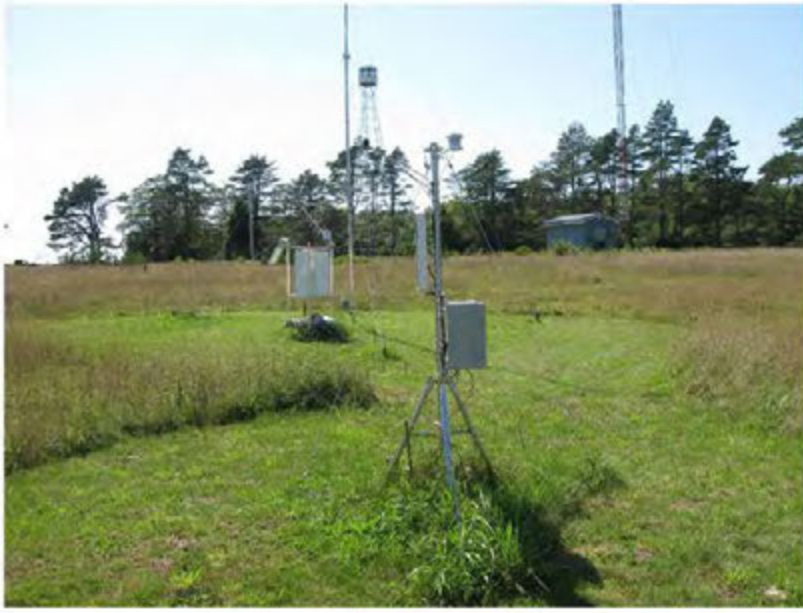


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 20, 2011 | January | 5 [0] | 0 [0] | -17.21 | 13.23 | -3.44 | -4.01 | 35.96 | 1.16 | 1.38 |
| | February | 0 [0] | 0 [0] | -19.19 | 10.91 | -2.30 | -2.85 | 54.29 | 1.94 | 2.09 |
| | March | 6 [0] | 0 [0] | -10.48 | 14.67 | 1.45 | 0.94 | 93.72 | 3.02 | 3.08 |
| | April | 59 [0] | 5 [0] | -5.02 | 22.49 | 5.64 | 5.17 | 115.54 | 3.85 | 4.23 |
| Frost Free Start: May 06, 2013 06:10 | May | 217 [187] | 73 [70] | -1.24 | 29.16 | 11.30 | 10.87 | 136.12 | 4.39 | 4.84 |
| | June | 341 [341] | 191 [191] | 6.46 | 32.20 | 15.86 | 15.57 | 141.12 | 4.70 | 4.78 |
| | July | 501 [501] | 346 [346] | 11.93 | 33.81 | 20.61 | 20.09 | 146.16 | 4.72 | 4.93 |
| Frost Free End: October 29, 2013 06:44 | August | 433 [433] | 278 [278] | 6.84 | 29.94 | 18.33 | 17.86 | 153.45 | 4.95 | 5.31 |
| | September | 298 [298] | 148 [148] | 2.80 | 27.09 | 14.43 | 14.43 | 94.57 | 3.15 | 3.48 |
| Frost Free Duration: 176.02 days | October | 175 [174] | 57 [57] | -2.80 | 25.43 | 9.93 | 9.65 | 85.45 | 2.76 | 2.96 |
| | November | 45 [0] | 11 [0] | -9.44 | 18.58 | 3.72 | 3.61 | 34.92 | 1.16 | 1.25 |
| | December | 5 [0] | 0 [0] | -16.12 | 11.59 | -1.57 | -2.03 | 20.48 | 0.66 | 0.79 |
| | Totals, Averages or Extremes | 2085 [1934] | 1109 [1090] | -19.19 | 33.81 | 7.83 | 7.44 | 1,111.78 | 36.47 | 39.12 |

South West NS Temperature and Solar Radiation Study

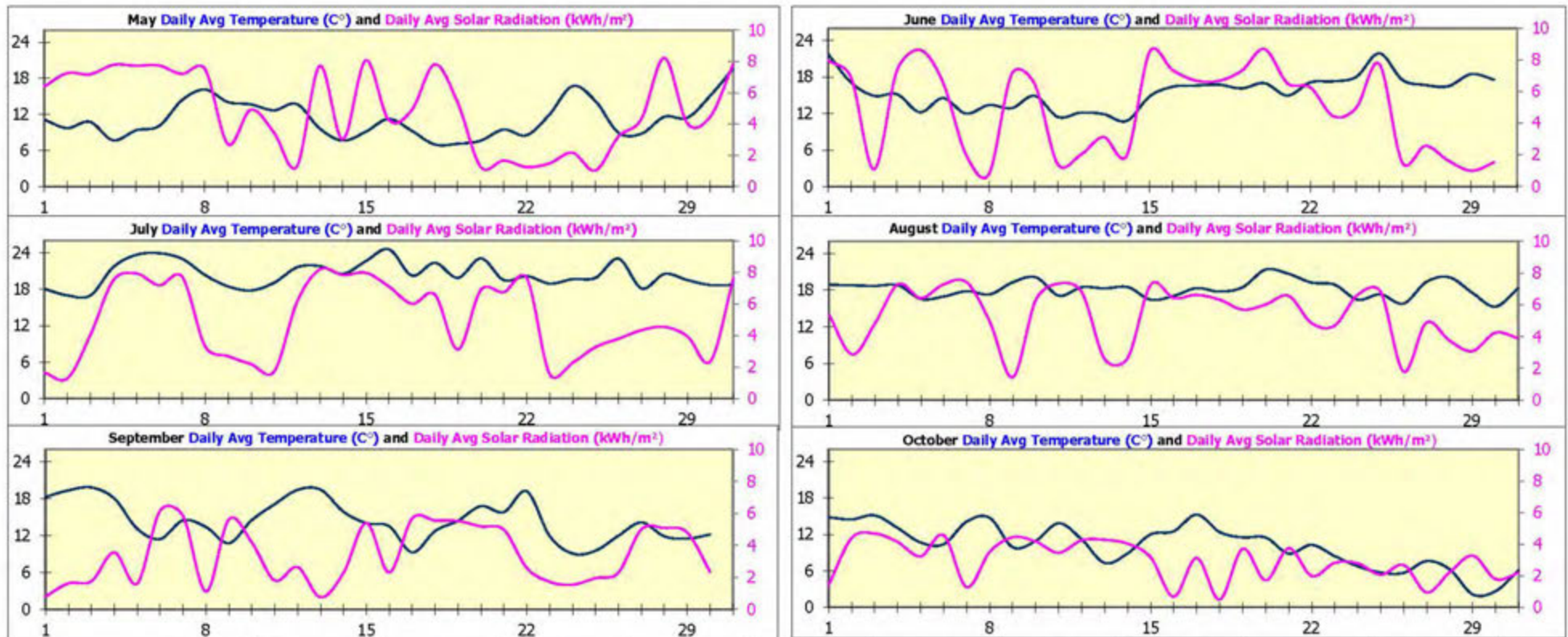
Station Description

| | | | |
|-------------|-----------------|-----------------------|-------------|
| Station ID: | YA6 (O) | Easting: | 277460.146 |
| Location: | East Kemptville | Northing: | 4884401.353 |
| County: | Yarmouth | Height (m): | 125.6 |
| Contact: | DNR | [UTM Zone 20, NAD 83] | |
| Deployment: | 4/20/2011 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station YA6

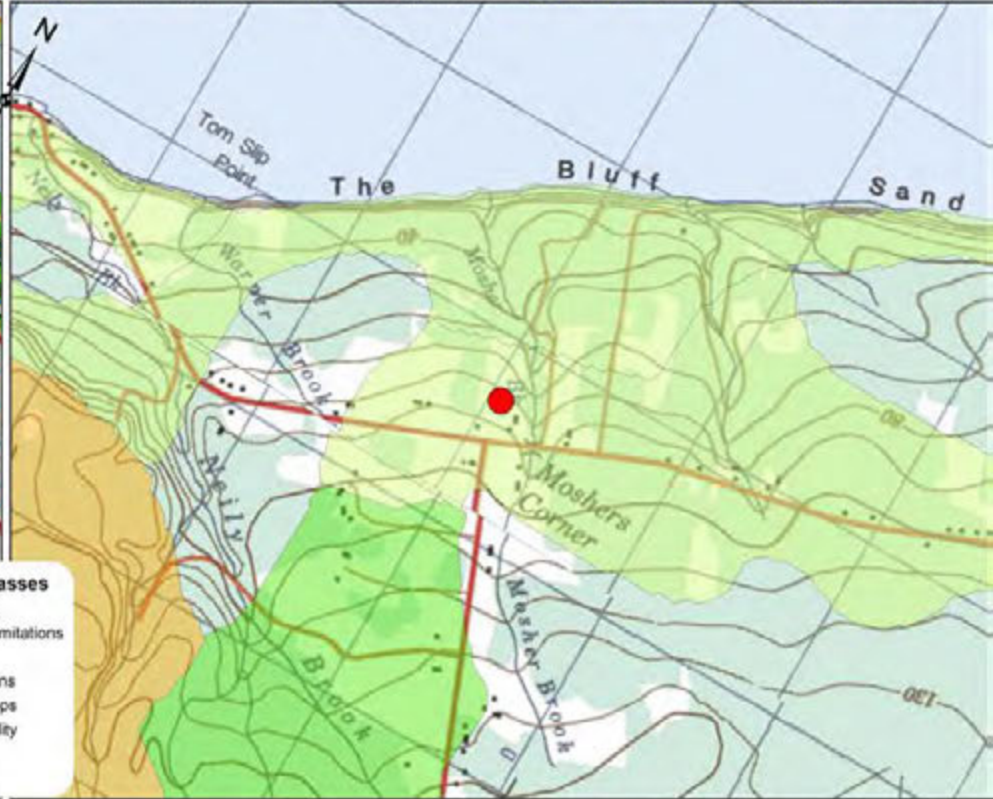
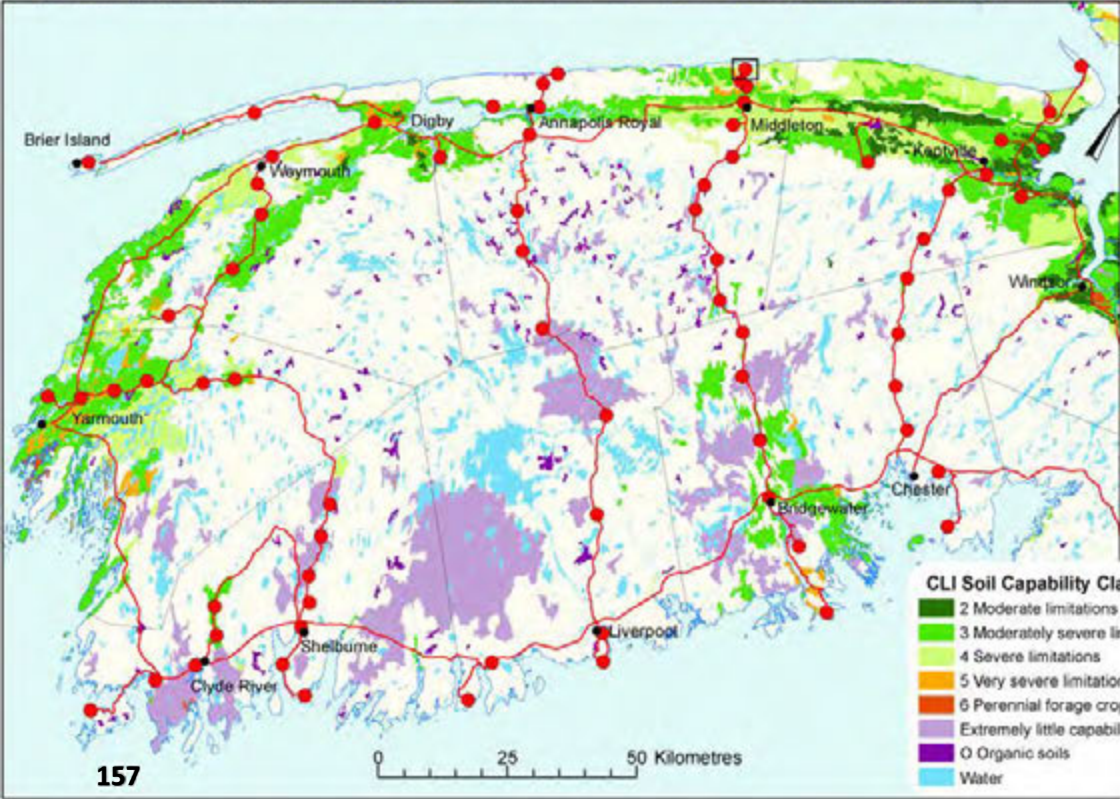


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|--|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: April 20, 2011 | January | 5 [0] | 0 [0] | -15.47 | 13.79 | -3.57 | -4.01 | 40.29 | 1.30 | 1.38 |
| | February | 0 [0] | 0 [0] | -18.70 | 9.48 | -2.63 | -2.85 | 56.68 | 2.02 | 2.09 |
| | March | 4 [0] | 0 [0] | -10.76 | 12.20 | 1.15 | 0.94 | 93.06 | 3.00 | 3.08 |
| | April | 54 [0] | 5 [0] | -4.47 | 21.03 | 5.41 | 5.17 | 123.84 | 4.13 | 4.23 |
| Frost Free Start: May 04, 2013 06:35 | May | 209 [188] | 70 [67] | -0.56 | 28.05 | 11.24 | 10.87 | 148.35 | 4.79 | 4.84 |
| | June | 339 [339] | 189 [189] | 7.87 | 31.82 | 15.63 | 15.57 | 142.24 | 4.74 | 4.78 |
| | July | 490 [490] | 335 [335] | 12.90 | 31.89 | 20.43 | 20.09 | 149.85 | 4.83 | 4.93 |
| Frost Free End: November 04, 2013 05:55 | August | 426 [426] | 271 [271] | 10.15 | 28.72 | 18.19 | 17.86 | 157.91 | 5.09 | 5.31 |
| | September | 293 [293] | 144 [144] | 3.41 | 25.96 | 14.44 | 14.43 | 98.68 | 3.29 | 3.48 |
| | October | 181 [181] | 60 [60] | -1.73 | 23.45 | 10.18 | 9.65 | 88.37 | 2.85 | 2.96 |
| Frost Free Duration: 183.97 days | November | 45 [18] | 11 [8] | -9.13 | 18.56 | 3.68 | 3.61 | 35.03 | 1.17 | 1.25 |
| | December | 5 [0] | 0 [0] | -15.79 | 11.42 | -1.89 | -2.03 | 23.27 | 0.75 | 0.79 |
| | Totals, Averages or Extremes | 2051 [1935] | 1085 [1074] | -18.70 | 31.89 | 7.69 | 7.44 | 1,157.57 | 37.97 | 39.12 |

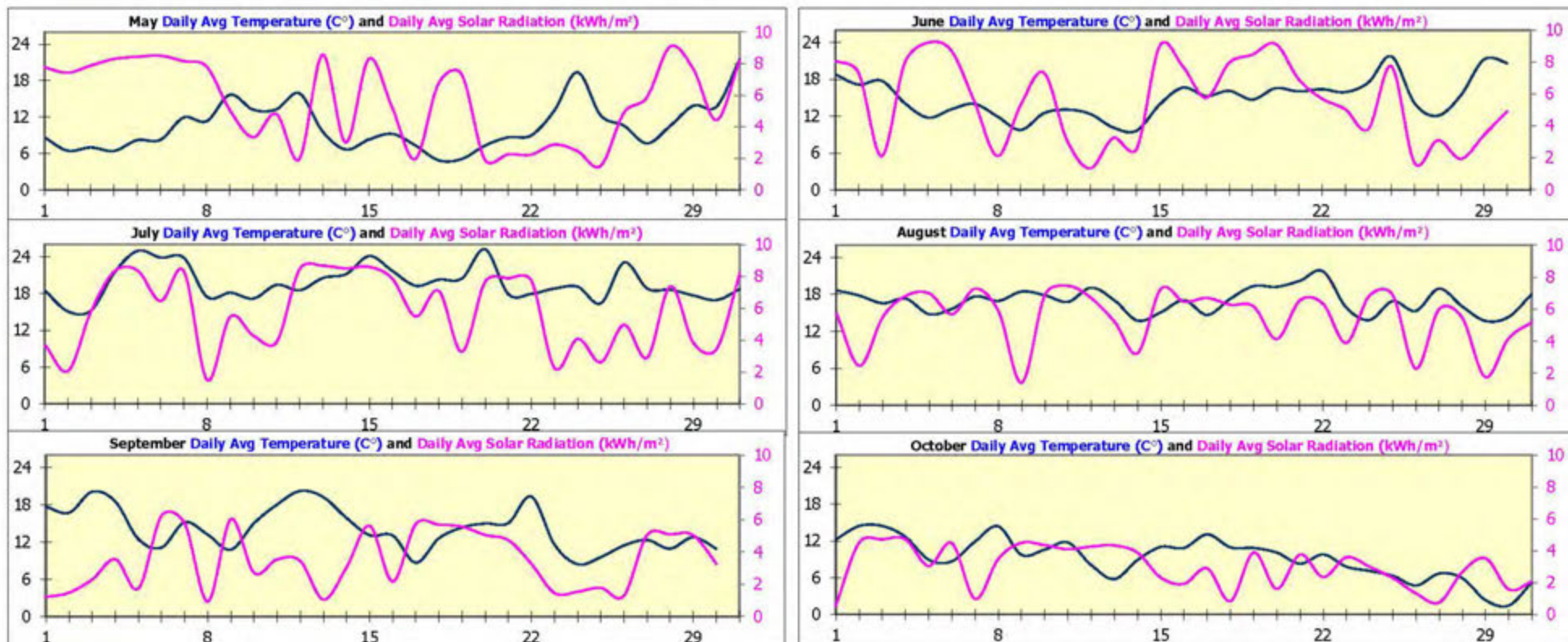
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|----------------|-----------------------|-------------|
| Station ID: | S10 (C) | Easting: | 333045.121 |
| Location: | Moshers Corner | Northing: | 4985700.586 |
| County: | Annapolis | Height (m): | 85.83 |
| Contact: | David Colville | [UTM Zone 20, NAD 83] | |
| Deployment: | 9/3/2002 | | |



2013 Temperature and Solar Radiation Summary for Station S10

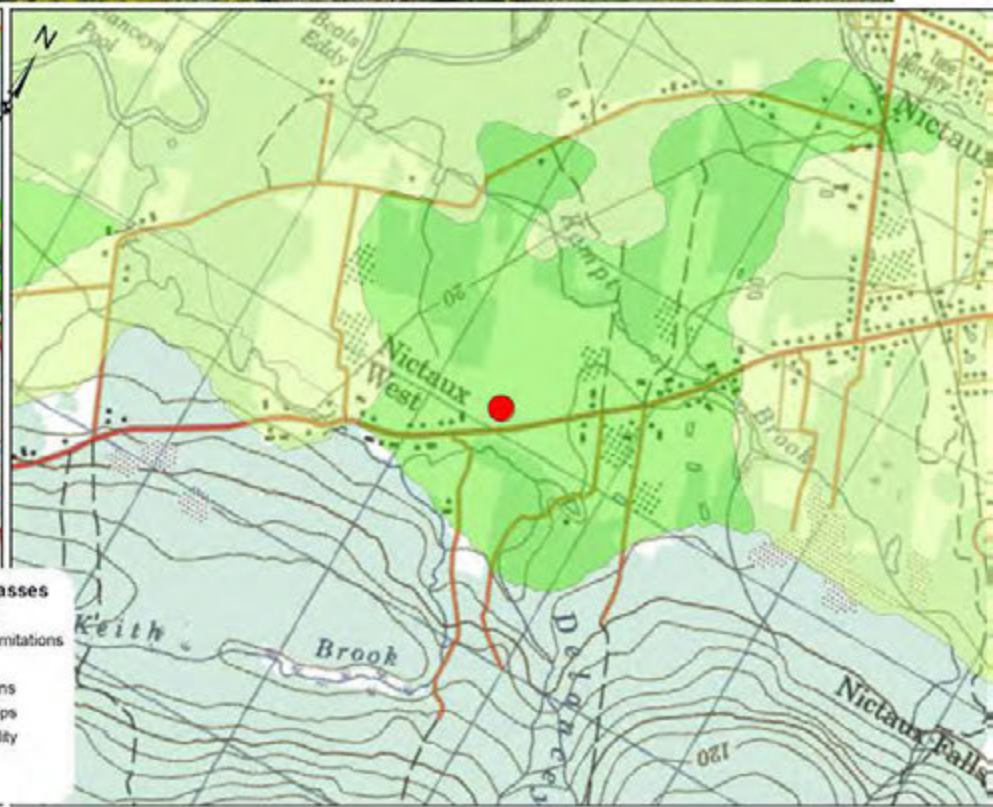
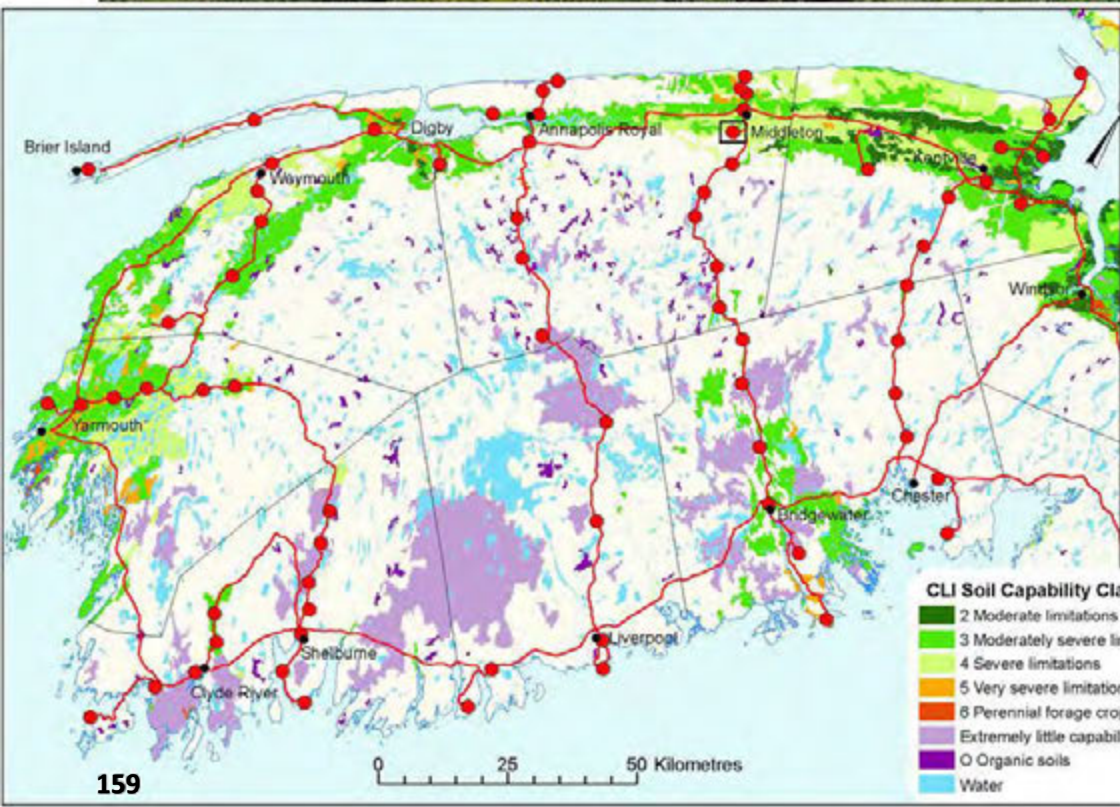


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: September 03, 2002 | January | 6 [0] | 0 [0] | -17.34 | 16.44 | -4.52 | -4.01 | 43.14 | 1.40 | 1.28 |
| | February | 0 [0] | 0 [0] | -19.12 | 8.17 | -3.30 | -2.85 | 59.12 | 2.15 | 2.01 |
| | March | 3 [0] | 0 [0] | -12.22 | 10.99 | 0.29 | 0.94 | 108.55 | 3.66 | 3.19 |
| | April | 36 [6] | 5 [0] | -4.36 | 21.18 | 4.57 | 5.17 | 152.58 | 5.16 | 4.34 |
| Frost Free Start: April 28, 2013 06:10 | May | 175 [175] | 56 [56] | 0.22 | 26.22 | 10.48 | 10.87 | 173.92 | 5.62 | 4.85 |
| | June | 306 [306] | 157 [157] | 6.65 | 26.73 | 15.01 | 15.57 | 166.49 | 6.08 | 5.30 |
| Frost Free End: October 30, 2013 00:15 | July | 454 [454] | 299 [299] | 12.80 | 29.00 | 19.68 | 20.09 | 178.86 | 6.94 | 5.91 |
| | August | 350 [350] | 228 [228] | 8.80 | 27.78 | 16.94 | 17.86 | 158.30 | 6.76 | 4.82 |
| | September | 278 [278] | 131 [131] | 4.07 | 25.73 | 14.12 | 14.43 | 105.54 | 3.97 | 3.54 |
| Frost Free Duration: 184.75 days | October | 138 [138] | 34 [34] | -2.41 | 19.92 | 9.21 | 9.65 | 92.41 | 2.65 | 2.45 |
| | November | 37 [0] | 9 [0] | -7.32 | 19.54 | 3.20 | 3.61 | 34.58 | 1.60 | 1.59 |
| | December | 3 [0] | 0 [0] | -17.56 | 11.59 | -3.47 | -2.03 | 22.49 | 0.93 | 0.93 |
| | Totals, Averages or Extremes | 1786 [1707] | 919 [905] | -19.12 | 29.00 | 6.85 | 7.44 | 1,295.99 | 46.92 | 40.22 |

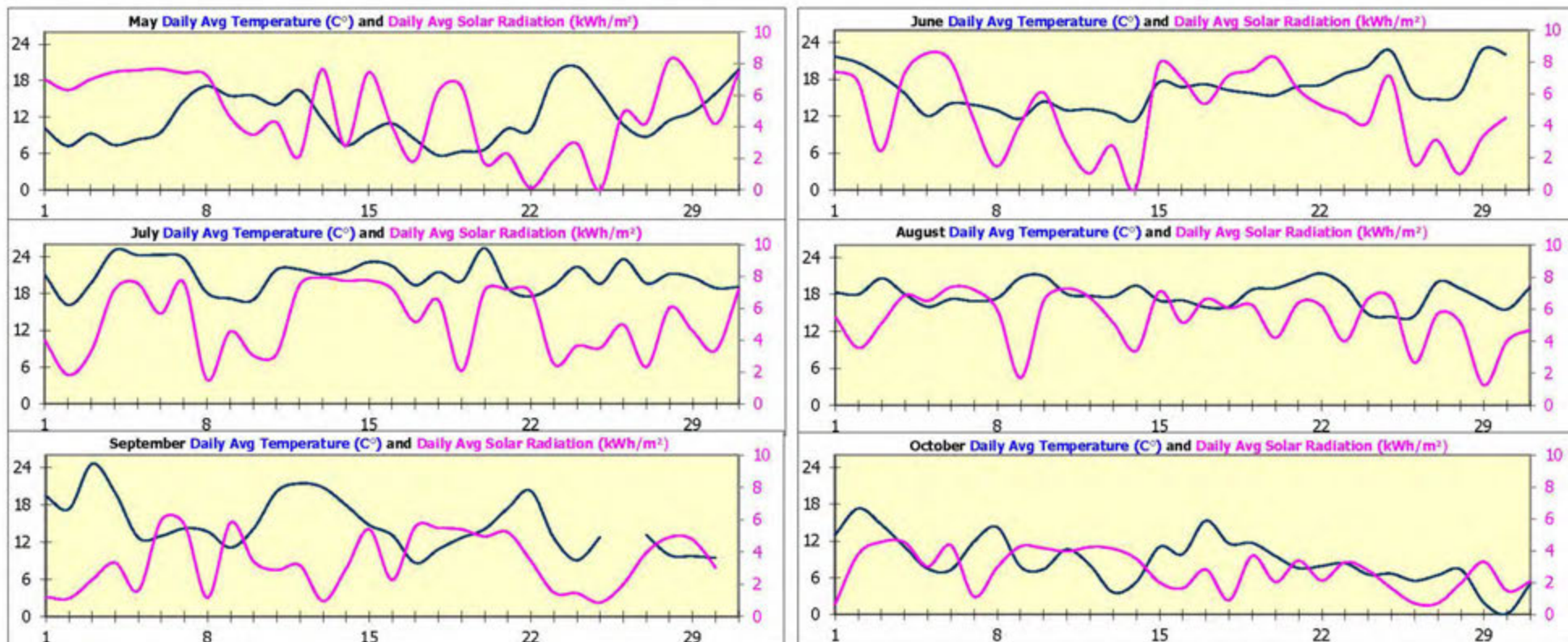
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|----------------|-----------------------|------------|
| Station ID: | S20 (C) | Easting: | 336355.877 |
| Location: | Nictaux West | Northing: | 4975120.91 |
| County: | Annapolis | Height (m): | 25.29 |
| Contact: | Ivan Shilladay | [UTM Zone 20, NAD 83] | |
| Deployment: | 10/21/2005 | | |



2013 Temperature and Solar Radiation Summary for Station S20

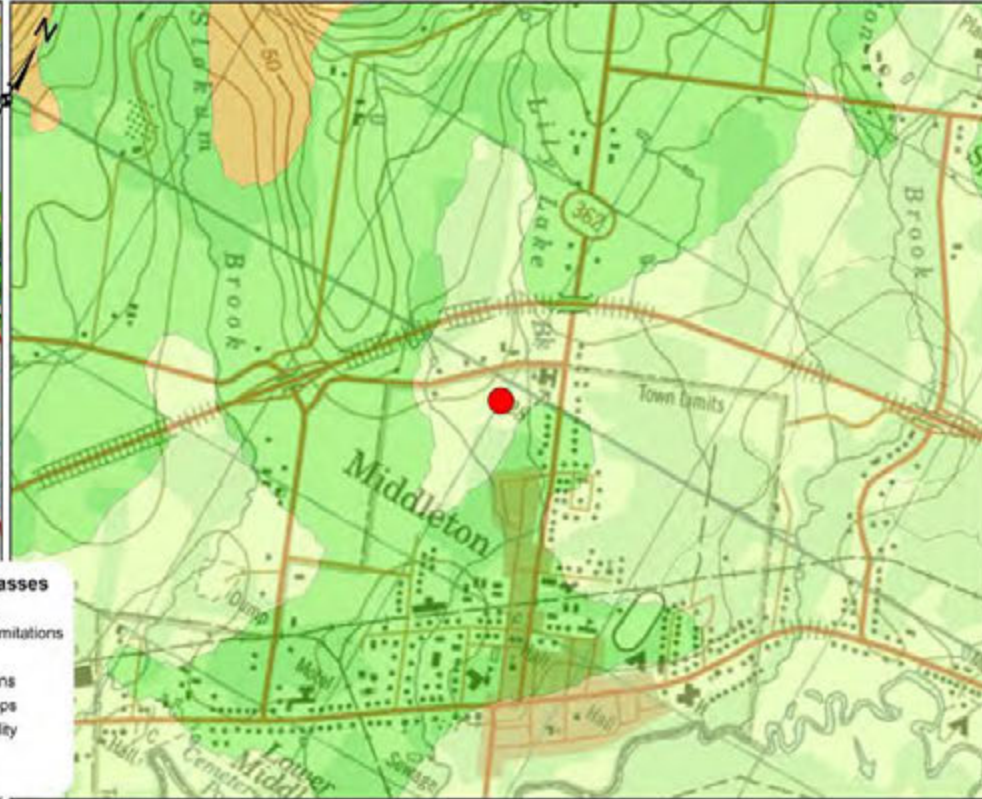
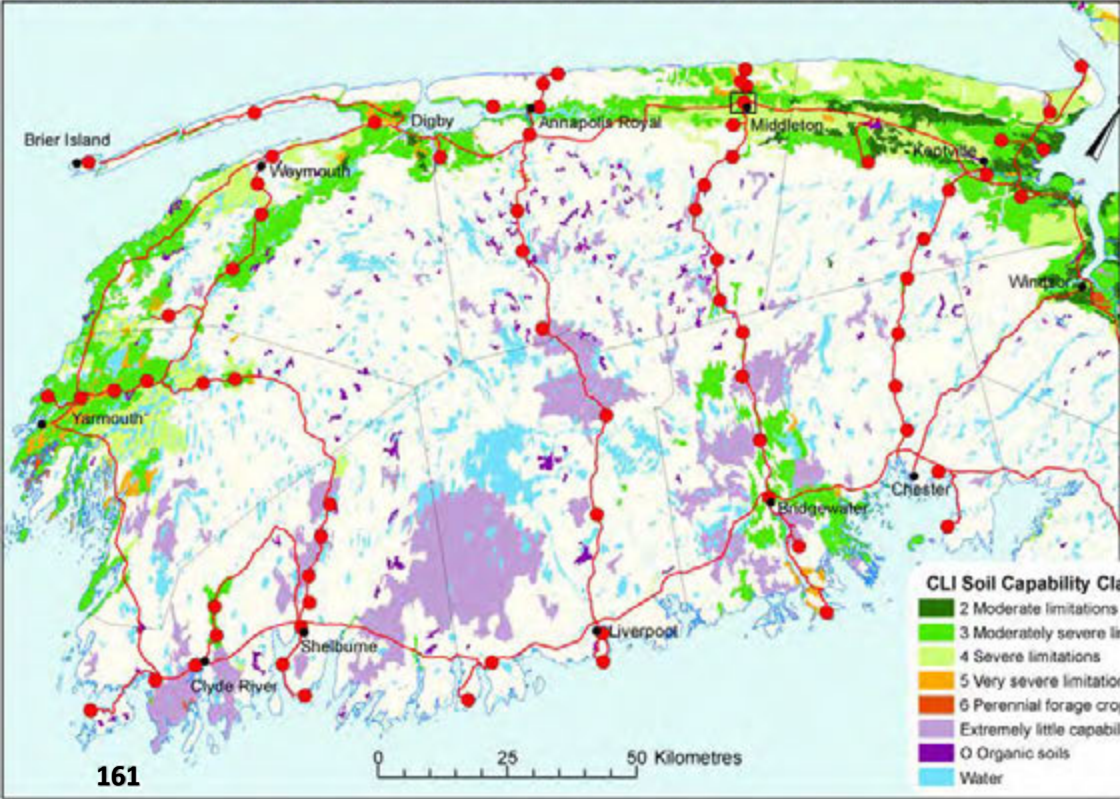


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 1 [0] | 0 [0] | -26.64 | 16.74 | -5.05 | -4.01 | 36.18 | 1.20 | 1.28 |
| Station Deployment: | February | 0 [0] | 0 [0] | -22.10 | 8.58 | -3.72 | -2.85 | 45.75 | 2.00 | 2.01 |
| October 21, 2005 | March | 3 [0] | 0 [0] | -12.07 | 11.55 | 0.49 | 0.94 | 86.94 | 3.31 | 3.19 |
| | April | 41 [0] | 7 [0] | -6.86 | 22.16 | 5.02 | 5.17 | 137.93 | 4.62 | 4.34 |
| Frost Free Start: | May | 204 [98] | 80 [44] | -3.10 | 28.17 | 11.81 | 10.87 | 153.85 | 5.15 | 4.85 |
| May 19, 2013 01:45 | June | 340 [340] | 190 [190] | 4.04 | 31.66 | 16.38 | 15.57 | 147.96 | 5.30 | 5.30 |
| | July | 481 [481] | 326 [326] | 8.59 | 31.46 | 20.82 | 20.09 | 160.25 | 5.95 | 5.91 |
| Frost Free End: | August | 403 [403] | 248 [248] | 2.95 | 29.26 | 17.94 | 17.86 | 167.72 | 4.98 | 4.82 |
| October 13, 2013 01:40 | September | 275 [275] | 138 [138] | 0.19 | 27.02 | 14.88 | 14.43 | 96.09 | 3.63 | 3.54 |
| | October | 117 [67] | 26 [17] | -6.47 | 22.65 | 8.86 | 9.65 | 85.78 | 2.45 | 2.45 |
| Frost Free Duration: | November | 13 [0] | 3 [0] | -6.37 | 16.21 | 3.32 | 3.61 | 32.29 | 1.46 | 1.59 |
| 147 days | December | 10 [0] | 2 [0] | -18.30 | 25.69 | -4.27 | -2.03 | 23.56 | 0.81 | 0.93 |
| | Totals, Averages or Extremes | 1888 [1664] | 1020 [963] | -26.64 | 31.66 | 7.21 | 7.44 | 1,174.31 | 40.85 | 40.22 |

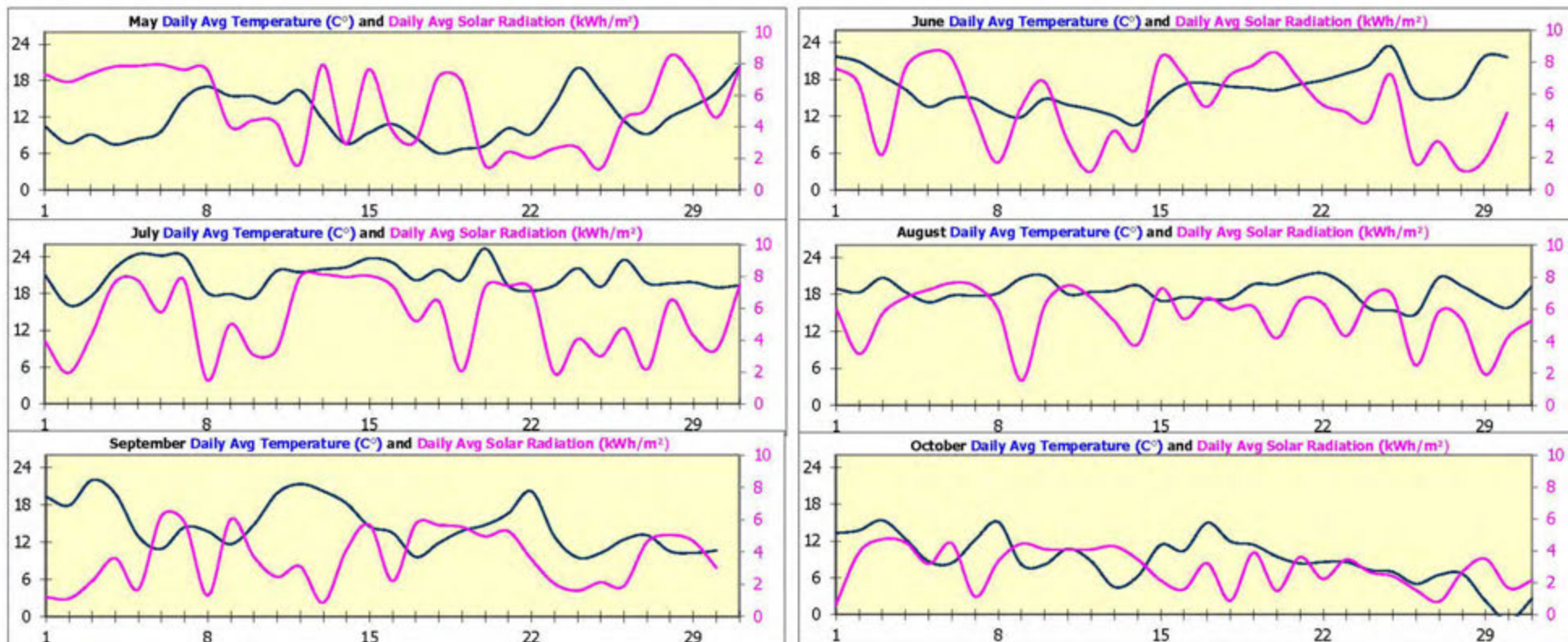
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|----------------|-----------------------|-------------|
| Station ID: | S30 (C) | Easting: | 336010.234 |
| Location: | Middleton | Northing: | 4979908.951 |
| County: | Annapolis | Height (m): | 27.17 |
| Contact: | David Colville | [UTM Zone 20, NAD 83] | |
| Deployment: | 9/9/2003 | | |



2013 Temperature and Solar Radiation Summary for Station S30

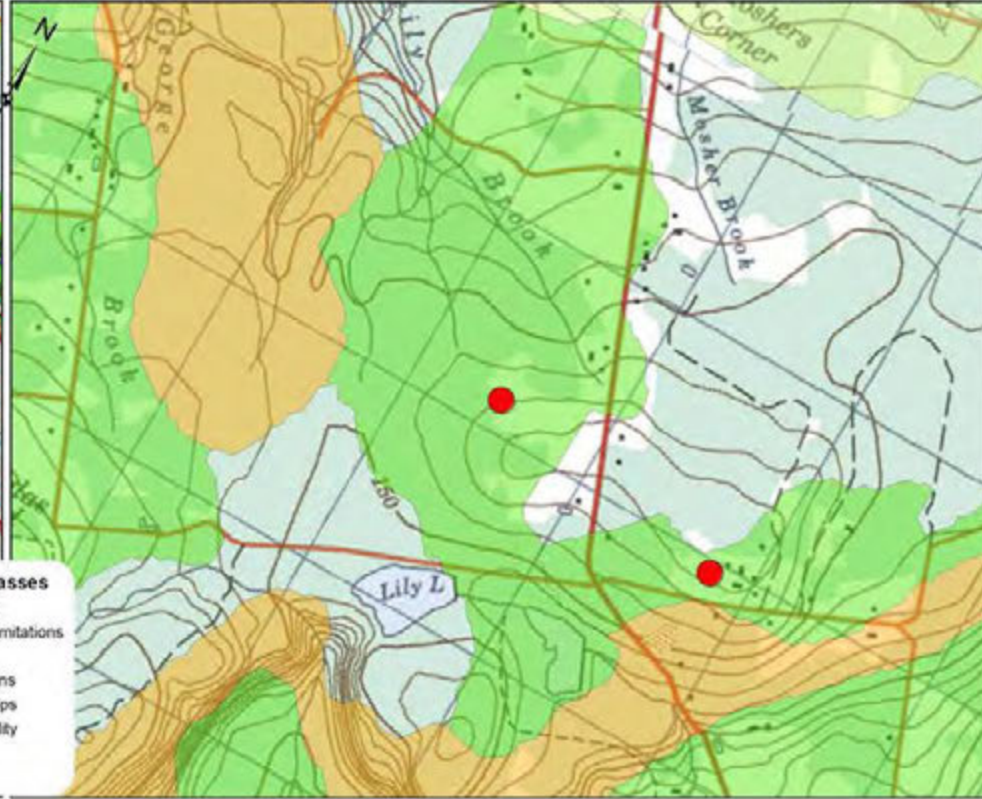
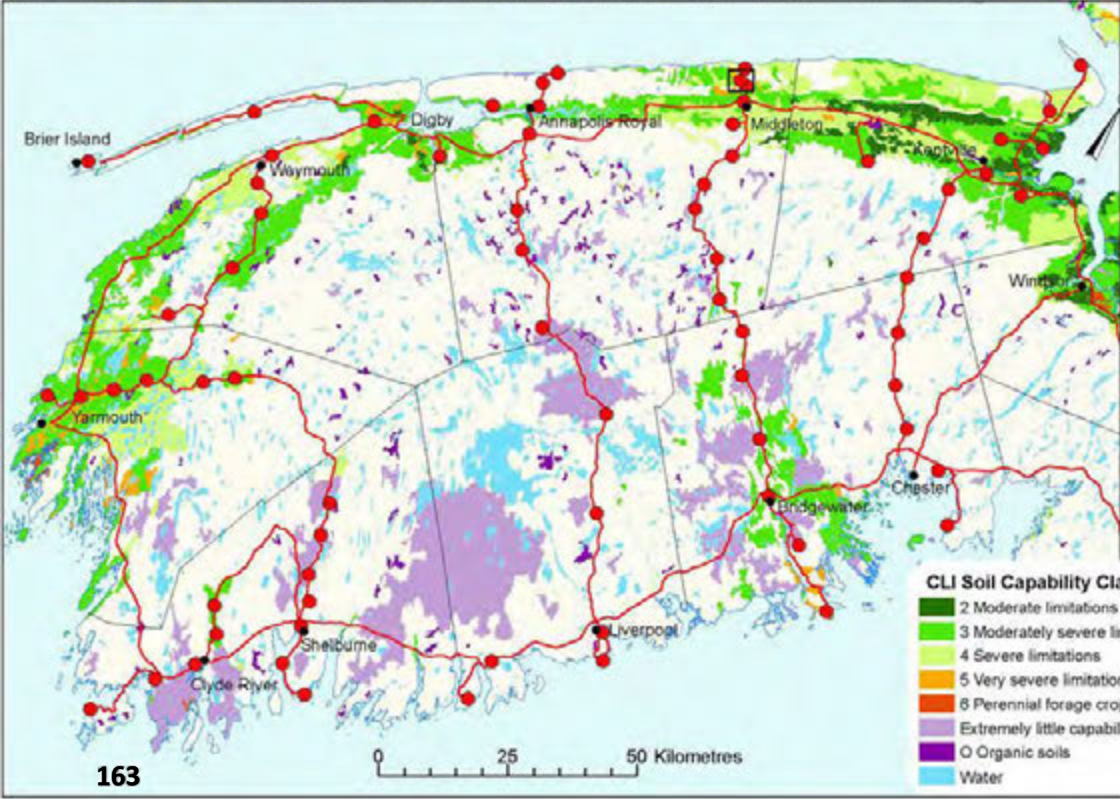


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 13 [0] | 0 [0] | -29.92 | 31.64 | -6.28 | -4.01 | 37.91 | 1.43 | 1.28 |
| Station Deployment: | February | 0 [0] | 0 [0] | -21.30 | 14.80 | -2.91 | -2.85 | 49.99 | 2.02 | 2.01 |
| September 09, 2003 | March | 4 [0] | 0 [0] | -11.55 | 11.96 | 0.90 | 0.94 | 97.98 | 3.48 | 3.19 |
| | April | 63 [0] | 9 [0] | -5.25 | 22.26 | 5.91 | 5.17 | 120.33 | 4.83 | 4.34 |
| Frost Free Start: | May | 207 [188] | 79 [79] | -1.71 | 28.21 | 11.84 | 10.87 | 164.27 | 5.24 | 4.85 |
| May 06, 2013 06:30 | June | 354 [354] | 204 [204] | 5.76 | 32.00 | 16.55 | 15.57 | 155.36 | 5.65 | 5.30 |
| | July | 498 [498] | 343 [343] | 10.16 | 32.16 | 20.76 | 20.09 | 164.31 | 6.42 | 5.91 |
| Frost Free End: | August | 426 [426] | 271 [271] | 4.56 | 29.51 | 18.43 | 17.86 | 172.66 | 5.16 | 4.82 |
| October 13, 2013 05:25 | September | 303 [303] | 153 [153] | 1.52 | 26.50 | 14.72 | 14.43 | 107.18 | 3.65 | 3.54 |
| | October | 135 [75] | 32 [21] | -5.90 | 22.75 | 8.92 | 9.65 | 90.11 | 2.49 | 2.45 |
| Frost Free Duration: | November | 28 [0] | 9 [0] | -11.23 | 20.76 | 3.12 | 3.61 | 22.93 | 1.57 | 1.59 |
| 159.95 days | December | 3 [0] | 0 [0] | -18.64 | 11.44 | -3.53 | -2.03 | 23.08 | 0.90 | 0.93 |
| | Totals, Averages or Extremes | 2034 [1844] | 1100 [1071] | -29.92 | 32.16 | 7.37 | 7.44 | 1,206.10 | 42.84 | 40.22 |

South West NS Temperature and Solar Radiation Study

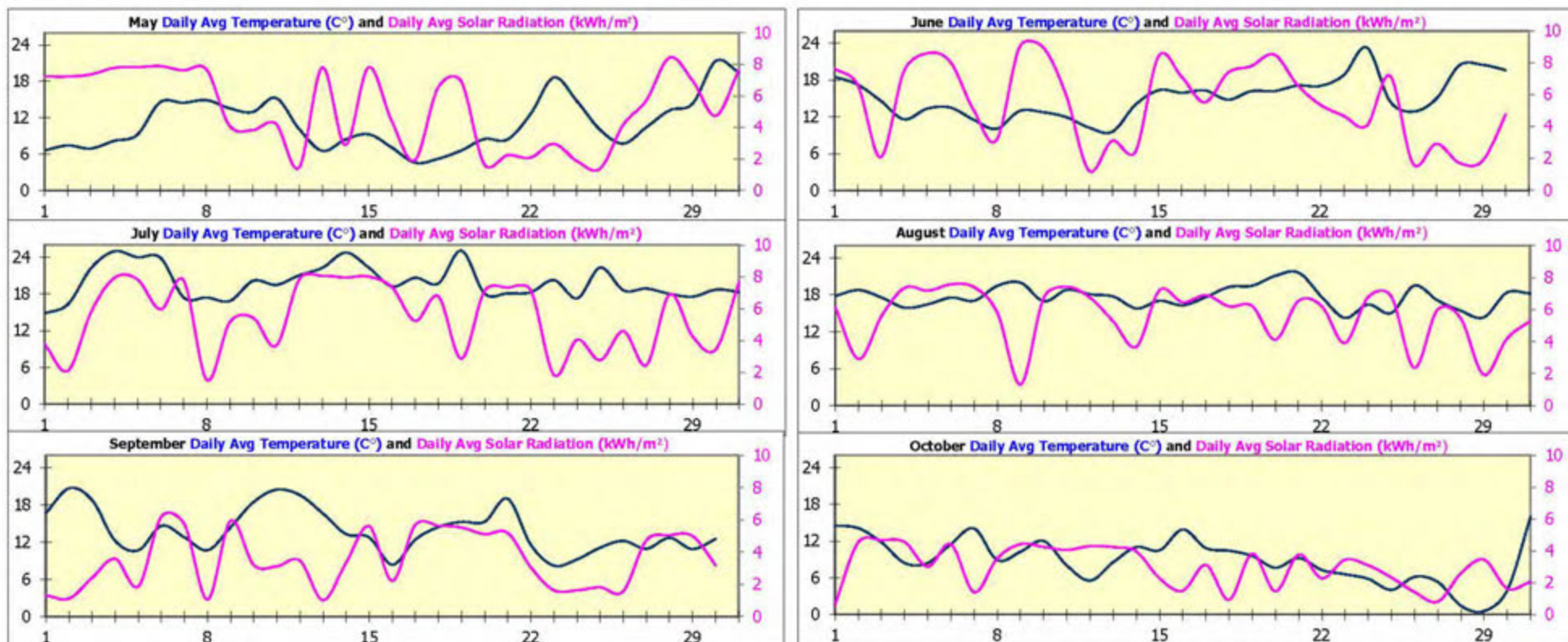
Station Description

| | | | |
|-------------|----------------|-----------------------|-------------|
| Station ID: | S40 (C) | Easting: | 333466.37 |
| Location: | North Mountain | Northing: | 4983179.812 |
| County: | Annapolis | Height (m): | 165.62 |
| Contact: | Greg Dixon | [UTM Zone 20, NAD 83] | |
| Deployment: | 9/10/2003 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station S40

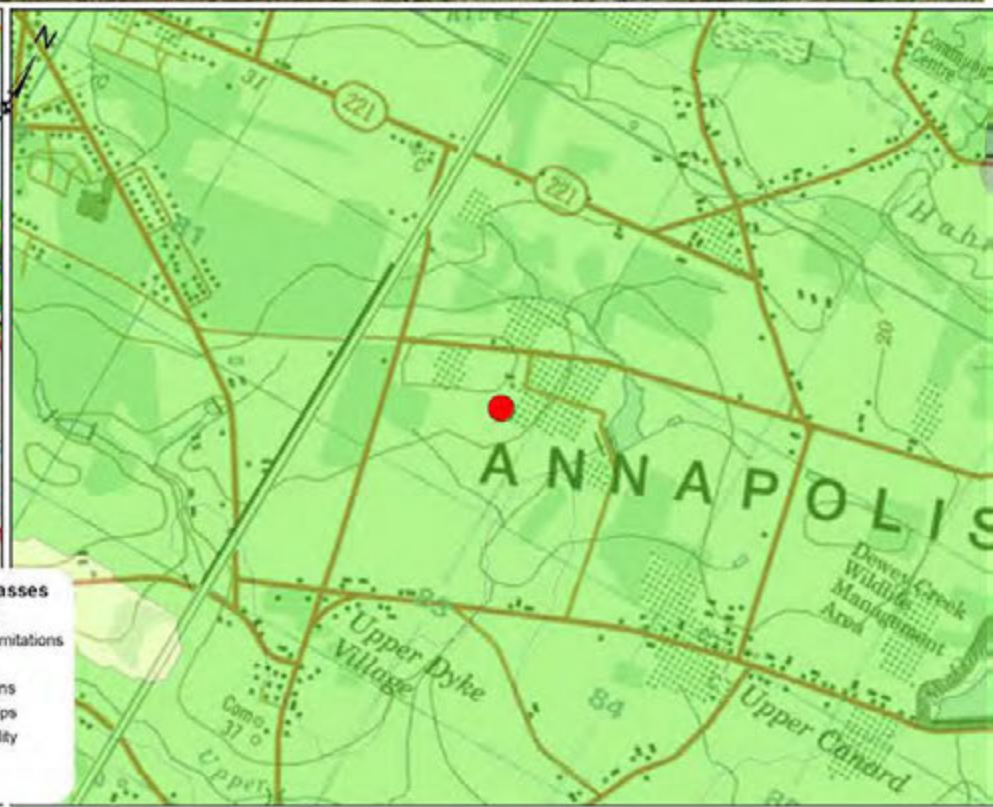
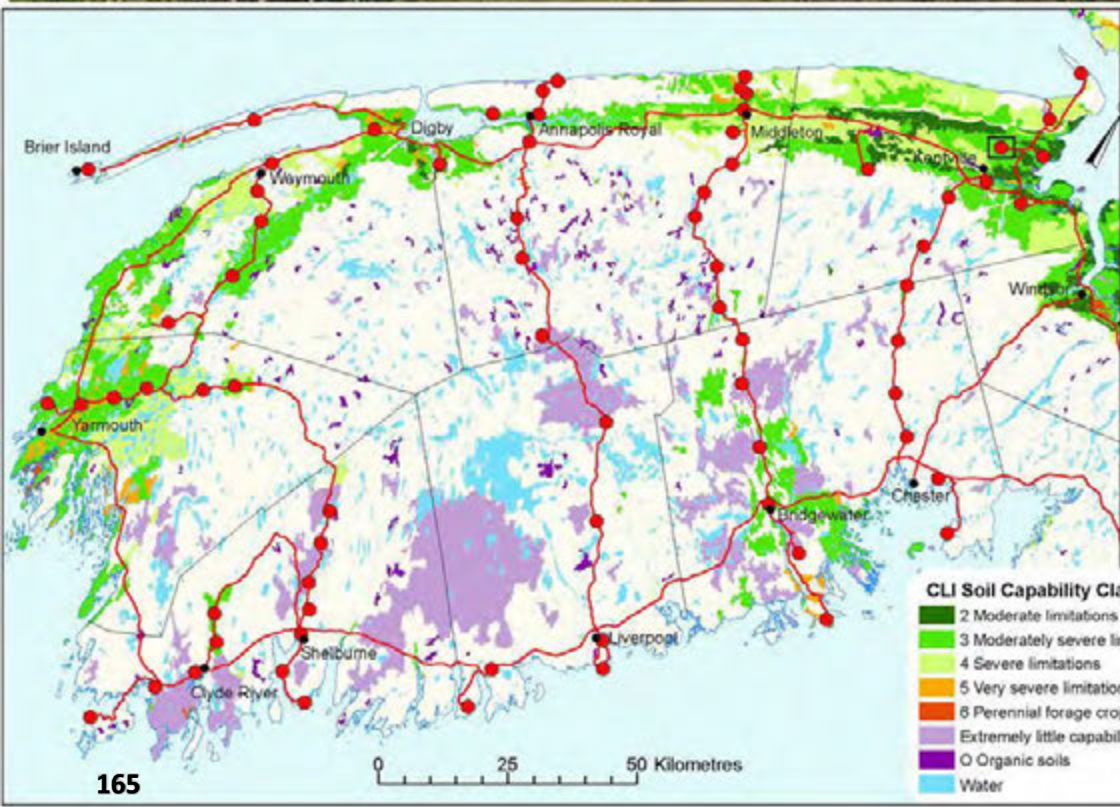


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: September 19, 2003 | January | 4 [0] | 0 [0] | -18.04 | 14.98 | -5.48 | -4.01 | 44.20 | 1.37 | 1.28 |
| | February | 0 [0] | 0 [0] | -20.31 | 7.50 | -4.39 | -2.85 | 54.97 | 2.07 | 2.01 |
| | March | 2 [0] | 0 [0] | -13.24 | 9.90 | -0.38 | 0.94 | 102.12 | 3.46 | 3.19 |
| | April | 33 [0] | 4 [0] | -5.67 | 20.15 | 4.26 | 5.17 | 139.62 | 4.77 | 4.34 |
| Frost Free Start: April 28, 2013 06:15 | May | 178 [178] | 62 [62] | 0.13 | 27.13 | 10.67 | 10.87 | 162.30 | 5.26 | 4.85 |
| | June | 313 [313] | 164 [164] | 6.39 | 29.07 | 15.22 | 15.57 | 171.62 | 5.69 | 5.30 |
| Frost Free End: October 30, 2013 01:45 | July | 467 [467] | 312 [312] | 11.74 | 30.94 | 19.94 | 20.09 | 170.37 | 6.46 | 5.91 |
| | August | 403 [403] | 248 [248] | 8.14 | 27.89 | 17.64 | 17.86 | 173.80 | 5.26 | 4.82 |
| | September | 283 [283] | 137 [137] | 4.61 | 25.30 | 14.10 | 14.43 | 106.15 | 3.63 | 3.54 |
| Frost Free Duration: 184.81 days | October | 131 [131] | 30 [30] | -3.12 | 20.63 | 8.81 | 9.65 | 91.98 | 2.46 | 2.45 |
| | November | 33 [0] | 7 [0] | -7.72 | 18.71 | 2.64 | 3.61 | 35.47 | 1.53 | 1.59 |
| | December | 2 [0] | 0 [0] | -17.90 | 11.14 | -3.93 | -2.03 | 21.97 | 0.90 | 0.93 |
| | Totals, Averages or Extremes | 1849 [1775] | 964 [953] | -20.31 | 30.94 | 6.59 | 7.44 | 1,274.58 | 42.85 | 40.22 |

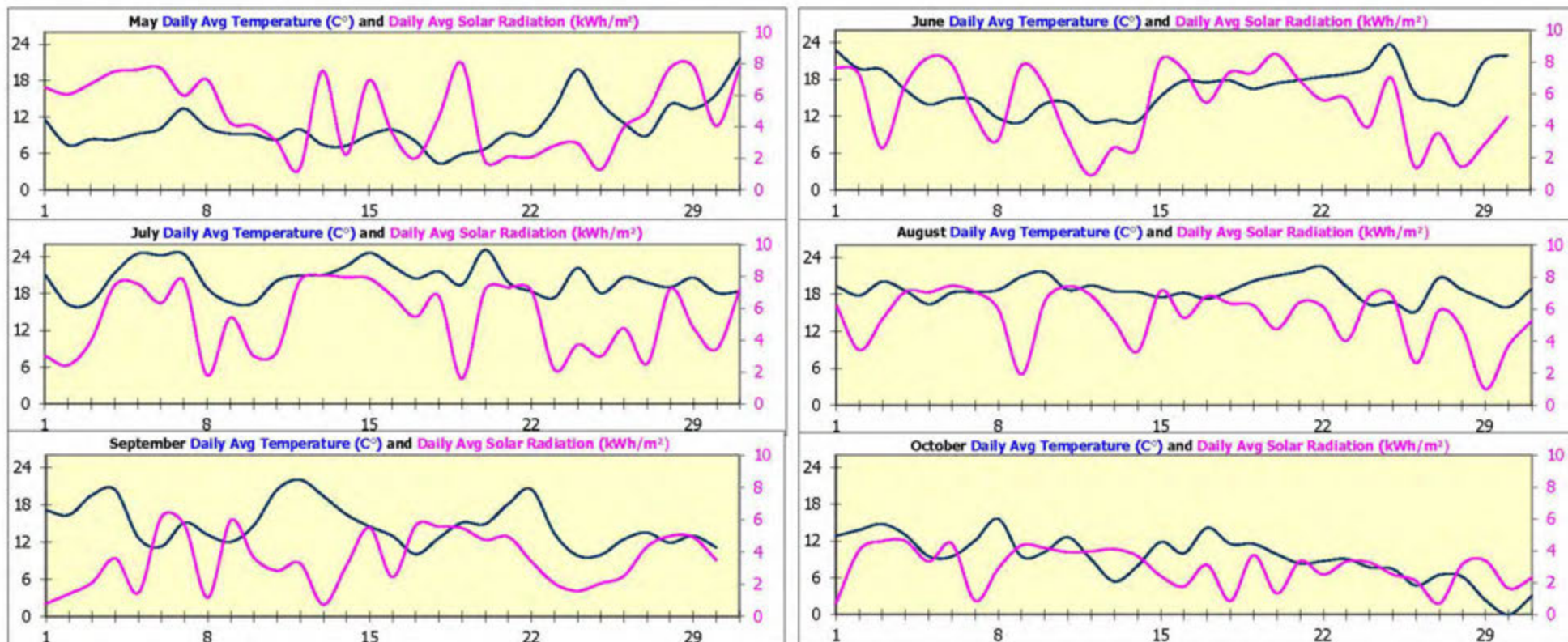
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|-----------------|-----------------------|-------------|
| Station ID: | S60 (C) | Easting: | 382818.778 |
| Location: | Sheffield Mills | Northing: | 4998516.228 |
| County: | Kings | Height (m): | 25.28 |
| Contact: | Dale Hebb | [UTM Zone 20, NAD 83] | |
| Deployment: | 9/19/2003 | | |



2013 Temperature and Solar Radiation Summary for Station S60



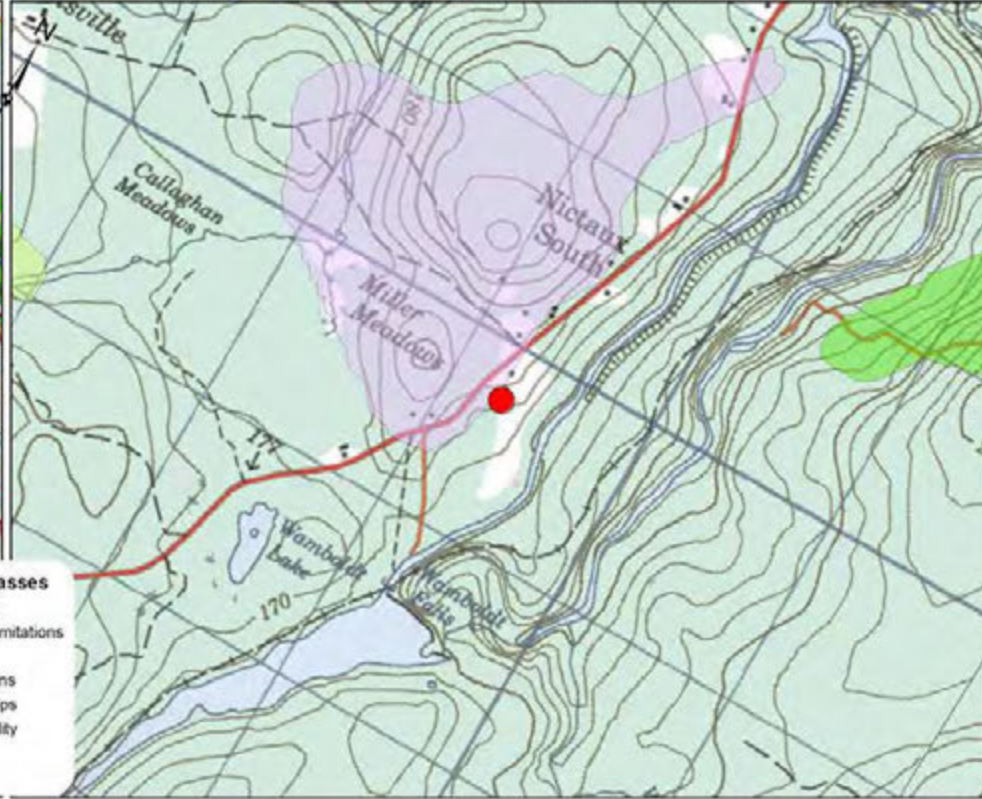
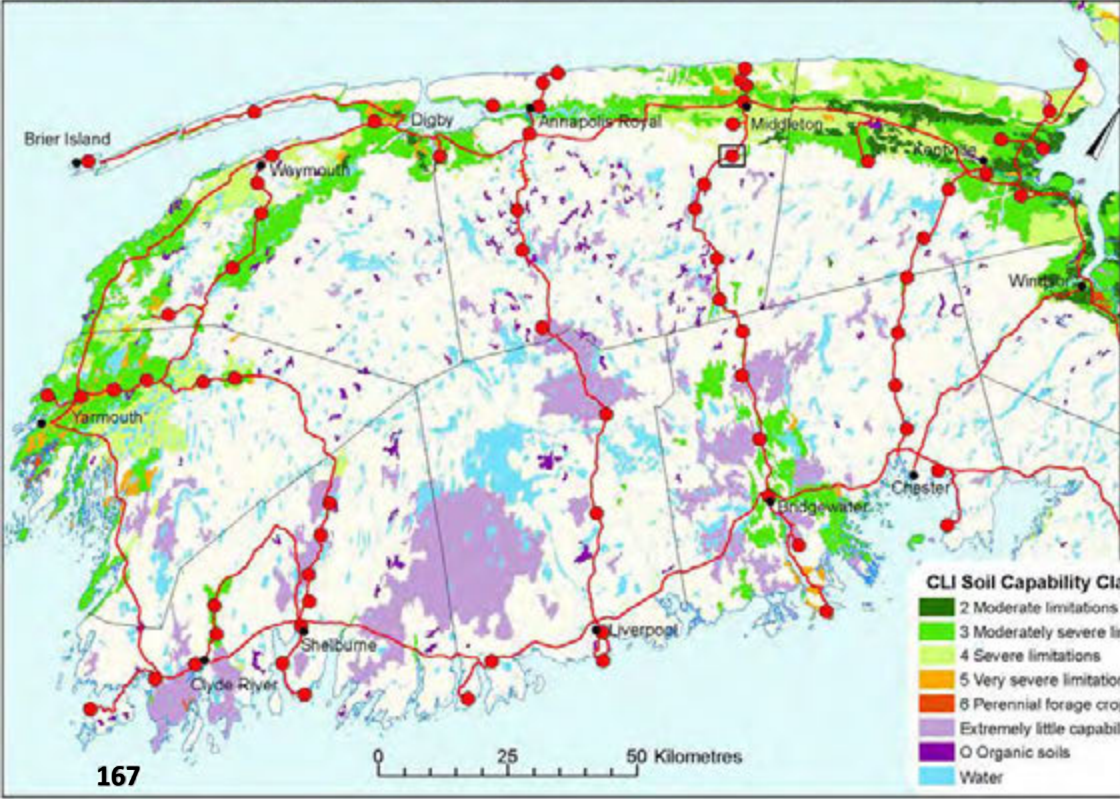
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: September 16, 2003 | January | 5 [0] | 0 [0] | -21.38 | 15.20 | -5.22 | -4.01 | 42.46 | 1.41 | 1.28 |
| | February | 0 [0] | 0 [0] | -22.13 | 7.82 | -4.11 | -2.85 | 57.01 | 2.25 | 2.01 |
| | March | 3 [0] | 0 [0] | -12.73 | 11.33 | 0.13 | 0.94 | 98.99 | 3.33 | 3.19 |
| | April | 41 [0] | 5 [0] | -4.51 | 21.98 | 4.67 | 5.17 | 134.72 | 4.64 | 4.34 |
| Frost Free Start: May 28, 2013 08:40 | May | 177 [98] | 52 [43] | -0.74 | 29.44 | 10.47 | 10.87 | 152.12 | 5.07 | 4.85 |
| | June | 351 [351] | 201 [201] | 6.51 | 32.68 | 16.47 | 15.57 | 159.27 | 5.50 | 5.30 |
| | July | 470 [470] | 315 [315] | 8.90 | 32.47 | 20.32 | 20.09 | 164.09 | 6.25 | 5.91 |
| Frost Free End: October 29, 2013 06:30 | August | 434 [434] | 279 [279] | 6.27 | 30.72 | 18.74 | 17.86 | 171.27 | 5.10 | 4.82 |
| | September | 310 [310] | 160 [160] | 2.35 | 27.67 | 14.83 | 14.43 | 105.85 | 3.49 | 3.54 |
| | October | 150 [150] | 40 [40] | -5.51 | 22.93 | 9.31 | 9.65 | 91.08 | 2.44 | 2.45 |
| Frost Free Duration: 153.91 days | November | 37 [0] | 10 [0] | -9.70 | 20.99 | 3.54 | 3.61 | 35.93 | 1.61 | 1.59 |
| | December | 2 [0] | 0 [0] | -18.26 | 10.70 | -3.85 | -2.03 | 26.58 | 0.83 | 0.93 |
| | Totals, Averages or Extremes | 1980 [1813] | 1062 [1038] | -22.13 | 32.68 | 7.11 | 7.44 | 1,239.37 | 41.90 | 40.22 |

South West NS Temperature and Solar Radiation Study

Station Description

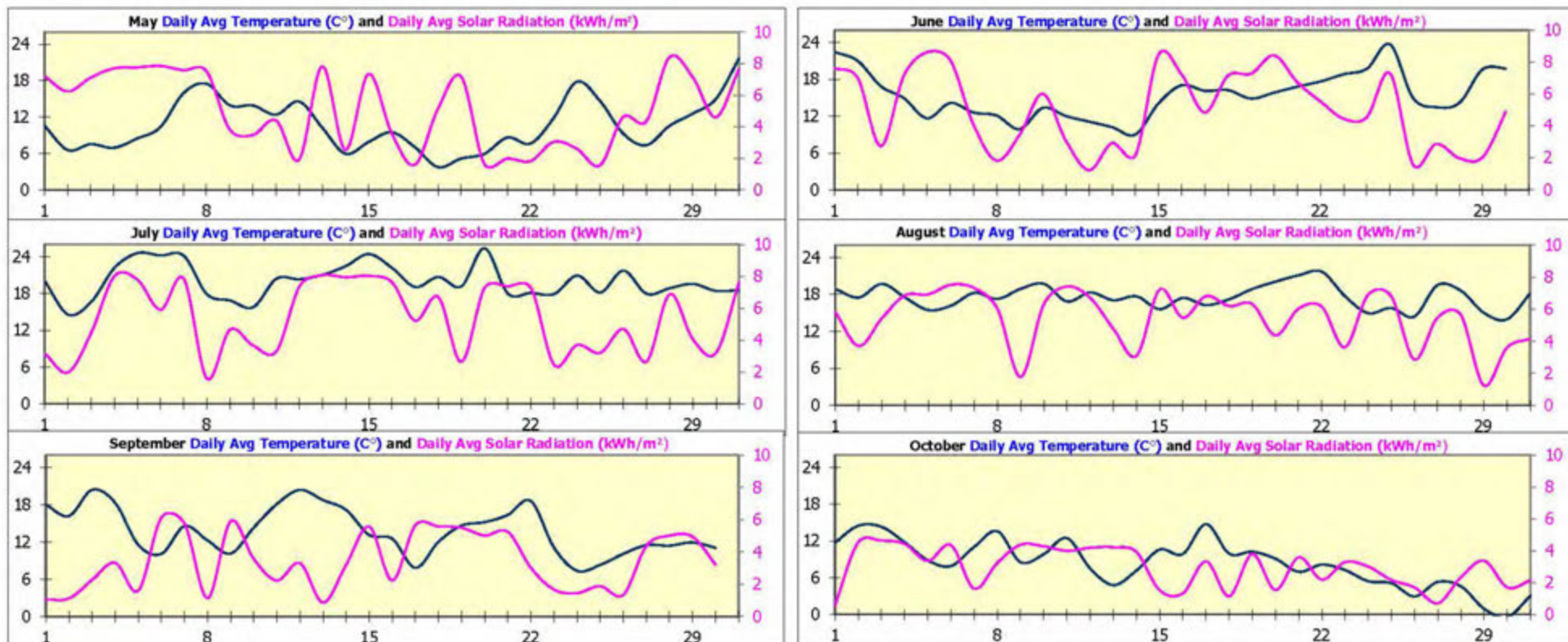
Station ID: S70 (C)
 Location: Nictaux South
 County: Annapolis
 Contact: Marian & Gordon Foster
 Deployment: 9/16/2003

Easting: 339300.27
 Northing: 4969724.065
 Height (m): 182.62
 [UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station S70



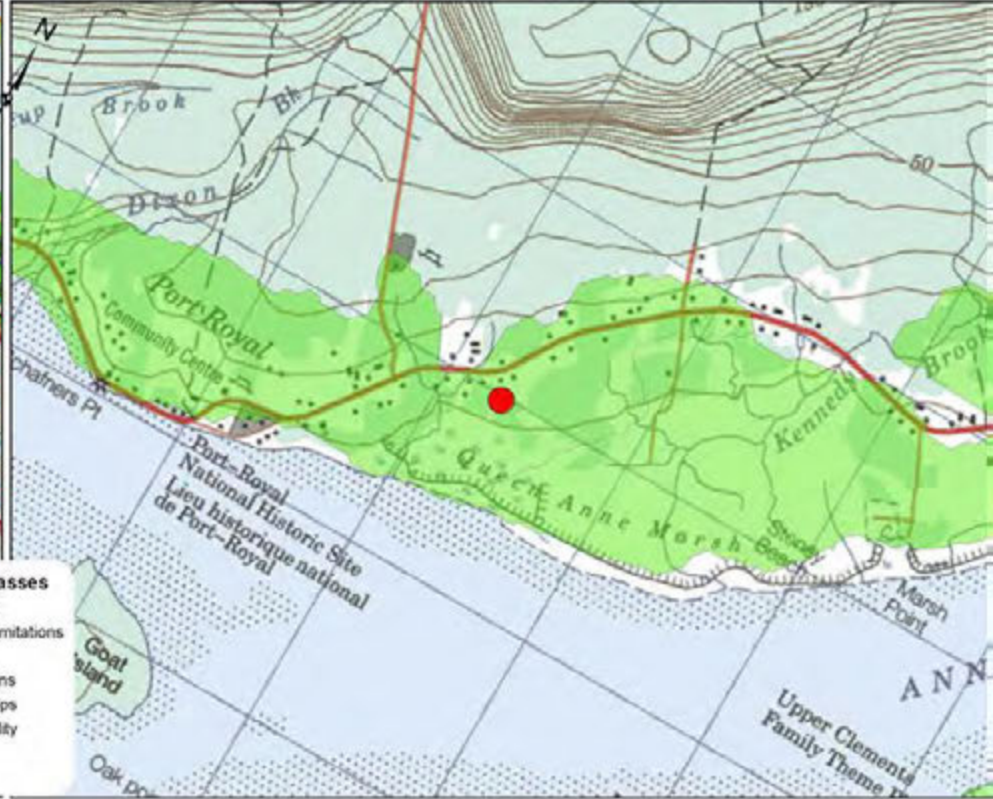
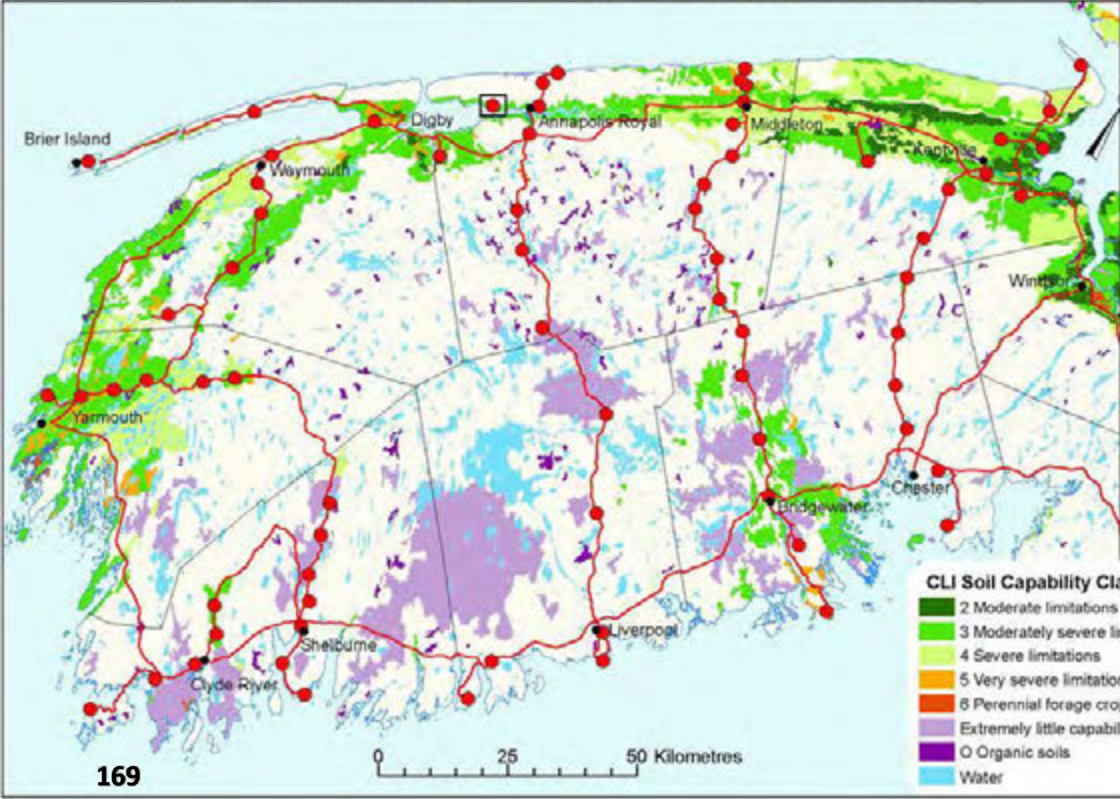
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 6 [0] | 0 [0] | -18.64 | 22.28 | -5.46 | -4.01 | 35.87 | 1.23 | 1.28 |
| Station Deployment: | February | 0 [0] | 0 [0] | -22.38 | 6.47 | -4.77 | -2.85 | 53.80 | 1.96 | 2.01 |
| September 30, 2003 | March | 1 [0] | 0 [0] | -13.78 | 10.44 | -0.79 | 0.94 | 96.10 | 3.32 | 3.19 |
| | April | 34 [0] | 3 [0] | -5.12 | 20.57 | 4.12 | 5.17 | 136.13 | 4.62 | 4.34 |
| Frost Free Start: | May | 182 [83] | 67 [34] | -1.12 | 27.91 | 10.68 | 10.87 | 157.31 | 5.13 | 4.85 |
| May 19, 2013 05:50 | June | 322 [322] | 173 [173] | 5.89 | 31.66 | 15.48 | 15.57 | 151.48 | 5.42 | 5.30 |
| | July | 469 [469] | 314 [314] | 10.52 | 30.49 | 20.00 | 20.09 | 166.17 | 6.19 | 5.91 |
| Frost Free End: | August | 394 [394] | 239 [239] | 6.09 | 27.51 | 17.60 | 17.86 | 168.61 | 5.05 | 4.82 |
| October 29, 2013 07:50 | September | 269 [269] | 124 [124] | 2.97 | 24.03 | 13.79 | 14.43 | 103.39 | 3.61 | 3.54 |
| | October | 117 [117] | 24 [24] | -4.72 | 21.16 | 8.33 | 9.65 | 90.73 | 2.46 | 2.45 |
| Frost Free Duration: | November | 31 [0] | 9 [0] | -10.31 | 26.10 | 1.88 | 3.61 | 34.82 | 1.56 | 1.59 |
| 163.08 days | December | 1 [0] | 0 [0] | -18.64 | 10.31 | -4.54 | -2.03 | 23.88 | 0.90 | 0.93 |
| | Totals, Averages or Extremes | 1826 [1654] | 953 [908] | -22.38 | 31.66 | 6.36 | 7.44 | 1,218.28 | 41.44 | 40.22 |

South West NS Temperature and Solar Radiation Study

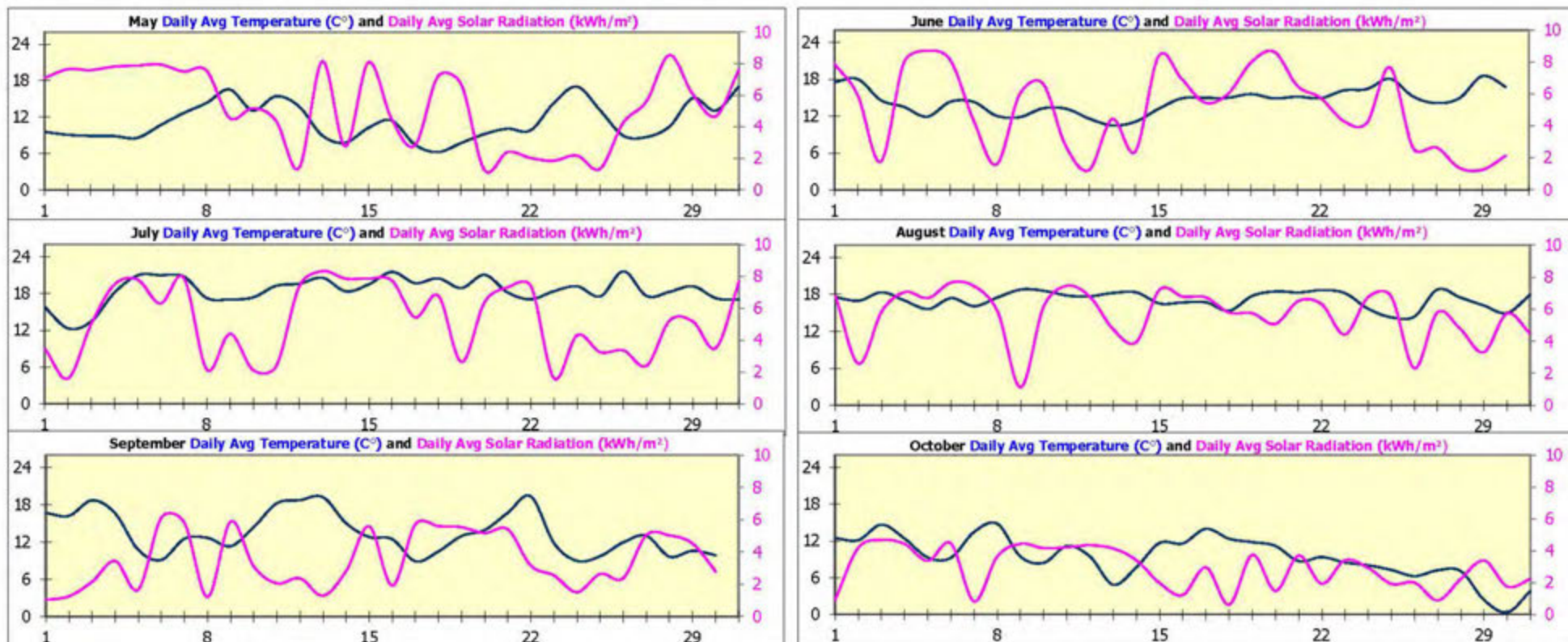
Station Description

Station ID: S80 (C)
Location: Port Royal
County: Annapolis
Contact: Allan Sloan
Deployment: 9/30/2003

Easting: 294317.614
Northing: 4955022.431
Height (m): 12.36
[UTM Zone 20, NAD 83]



2013 Temperature and Solar Radiation Summary for Station S80

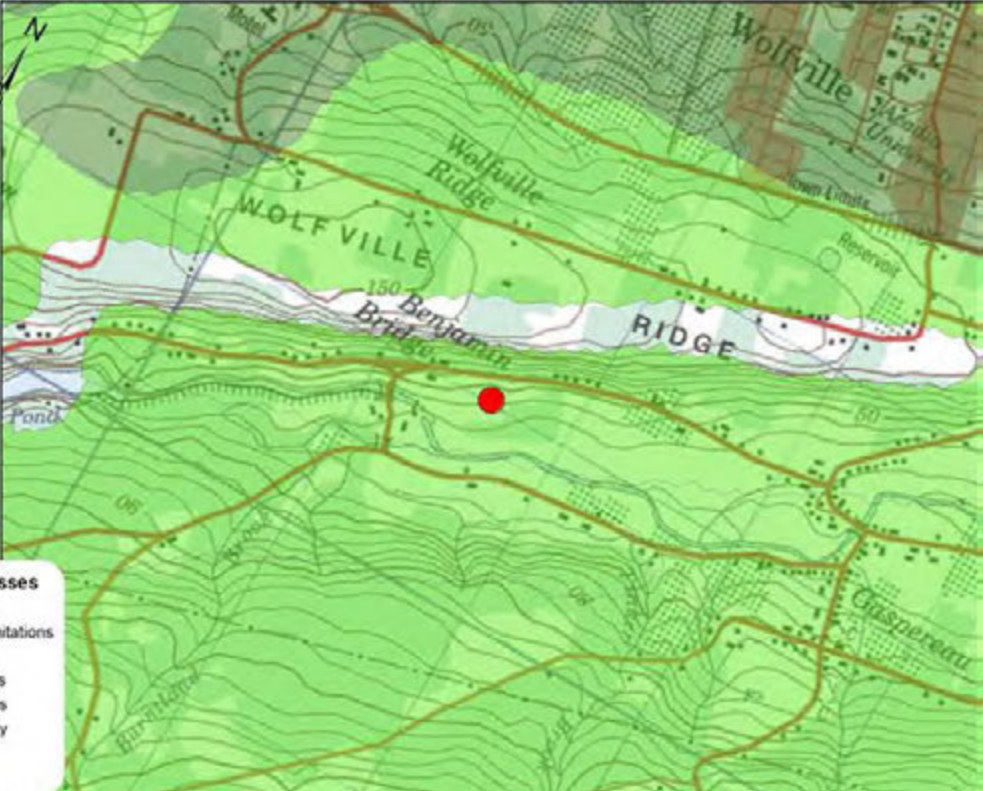
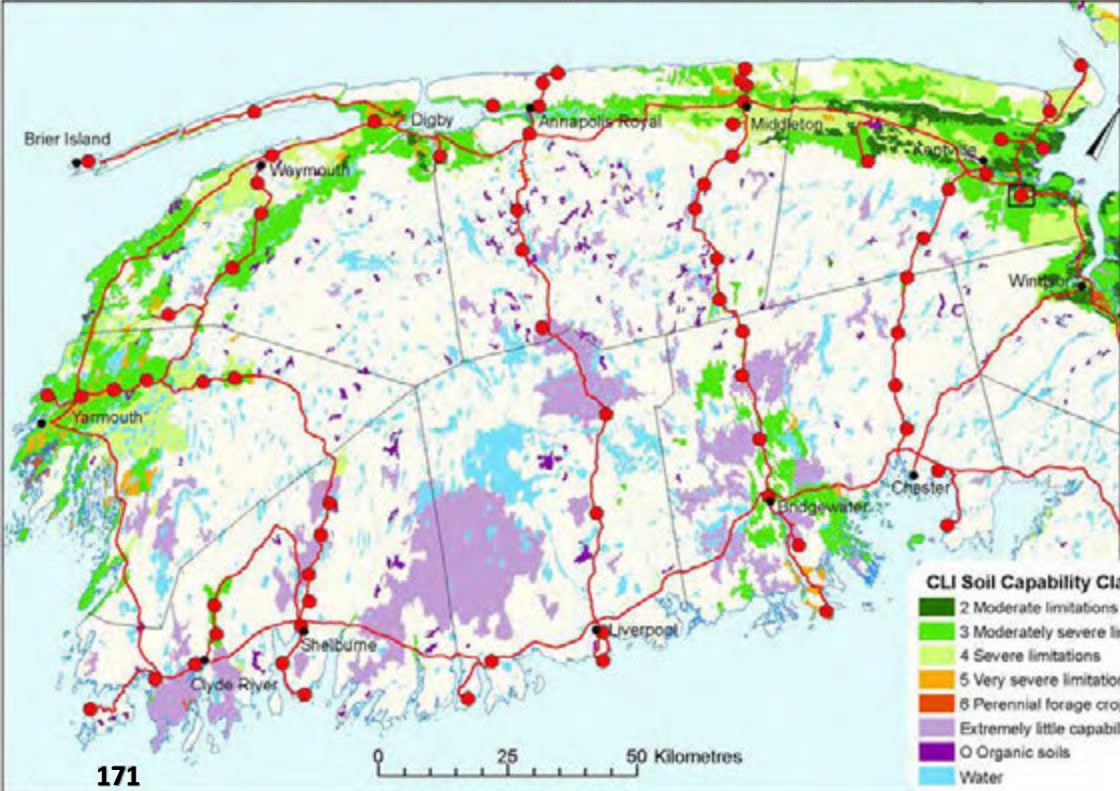


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: September 30, 2003 | January | 5 [0] | 0 [0] | -17.98 | 15.36 | -3.74 | -4.01 | 37.42 | 1.26 | 1.28 |
| | February | 1 [0] | 0 [0] | -19.25 | 10.30 | -2.43 | -2.85 | 54.52 | 1.92 | 2.01 |
| | March | 4 [0] | 0 [0] | -10.59 | 12.89 | 1.55 | 0.94 | 98.79 | 3.38 | 3.19 |
| | April | 43 [0] | 6 [0] | -3.02 | 20.53 | 5.76 | 5.17 | 139.37 | 4.86 | 4.34 |
| Frost Free Start: May 06, 2013 00:35 | May | 190 [190] | 55 [55] | -1.35 | 23.31 | 11.23 | 10.87 | 164.54 | 5.13 | 4.85 |
| | June | 296 [296] | 146 [146] | 5.28 | 25.12 | 14.56 | 15.57 | 151.83 | 5.76 | 5.30 |
| Frost Free End: October 13, 2013 06:05 | July | 428 [428] | 273 [273] | 8.62 | 28.50 | 18.51 | 20.09 | 161.98 | 6.42 | 5.91 |
| | August | 386 [386] | 231 [231] | 4.25 | 26.95 | 17.18 | 17.86 | 174.81 | 5.19 | 4.82 |
| | September | 254 [254] | 106 [106] | 1.34 | 25.34 | 13.46 | 14.43 | 104.92 | 3.78 | 3.54 |
| Frost Free Duration: 160.23 days | October | 138 [138] | 30 [30] | -4.76 | 21.19 | 9.40 | 9.65 | 89.64 | 2.50 | 2.45 |
| | November | 44 [0] | 11 [0] | -6.76 | 19.66 | 4.00 | 3.61 | 34.69 | 1.56 | 1.59 |
| | December | 3 [0] | 0 [0] | -15.09 | 10.72 | -2.19 | -2.03 | 24.18 | 0.91 | 0.93 |
| | Totals, Averages or Extremes | 1792 [1692] | 858 [841] | -19.25 | 28.50 | 7.27 | 7.44 | 1,236.69 | 42.68 | 40.22 |

South West NS Temperature and Solar Radiation Study

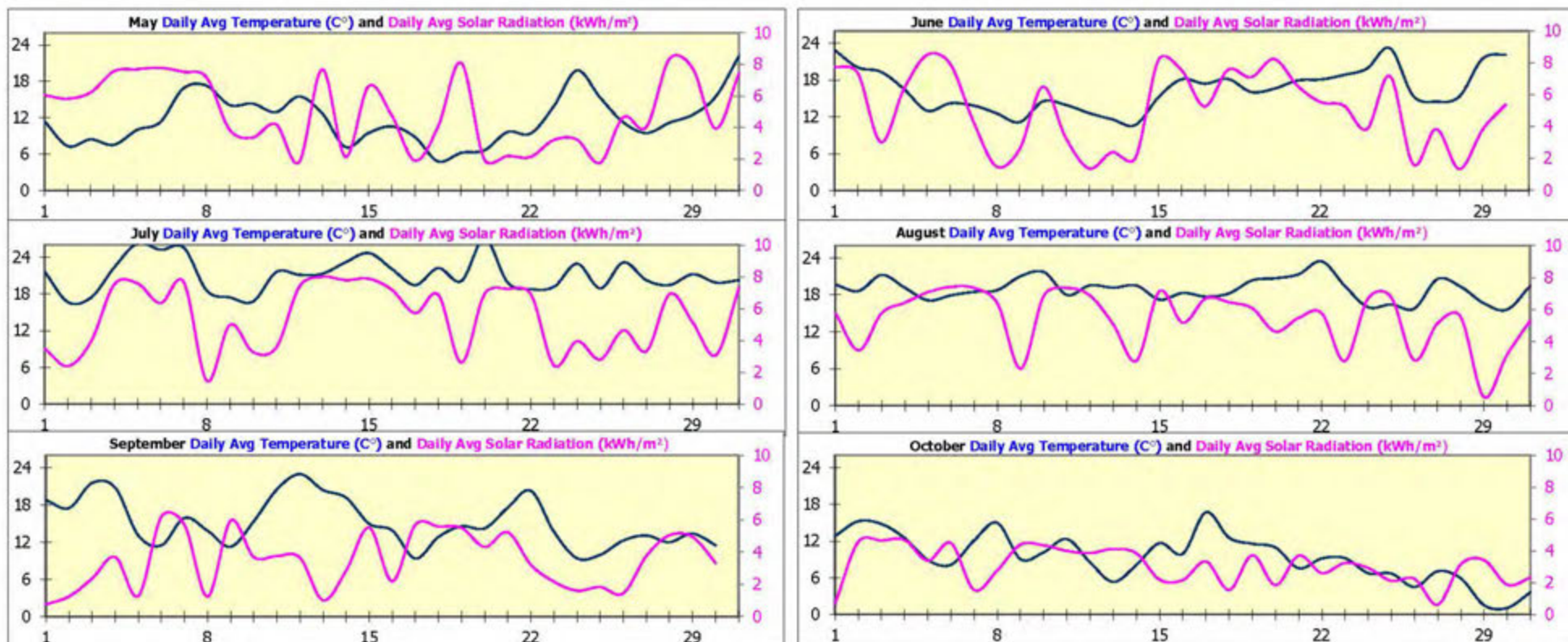
Station Description

| | | | |
|-------------|---------------|-----------------------|-------------|
| Station ID: | S90 (C) | Easting: | 391595.48 |
| Location: | Gaspereau | Northing: | 4991028.723 |
| County: | Kings | Height (m): | 44.15 |
| Contact: | Chris Wescott | [UTM Zone 20, NAD 83] | |
| Deployment: | 9/30/2003 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station S90

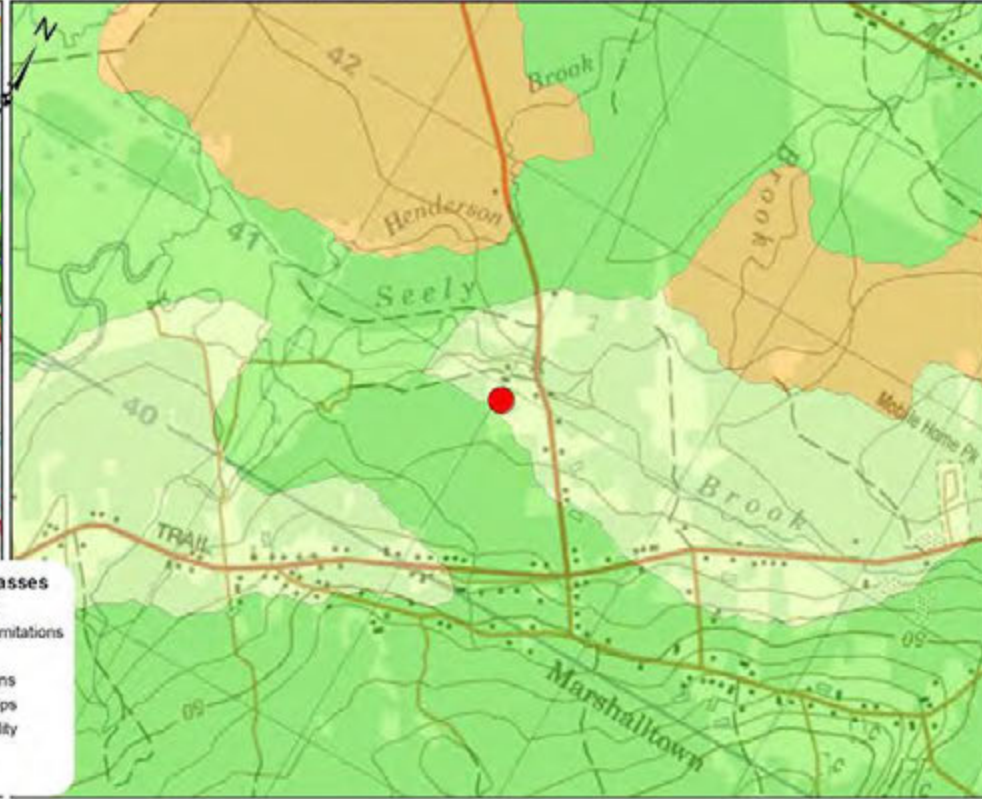
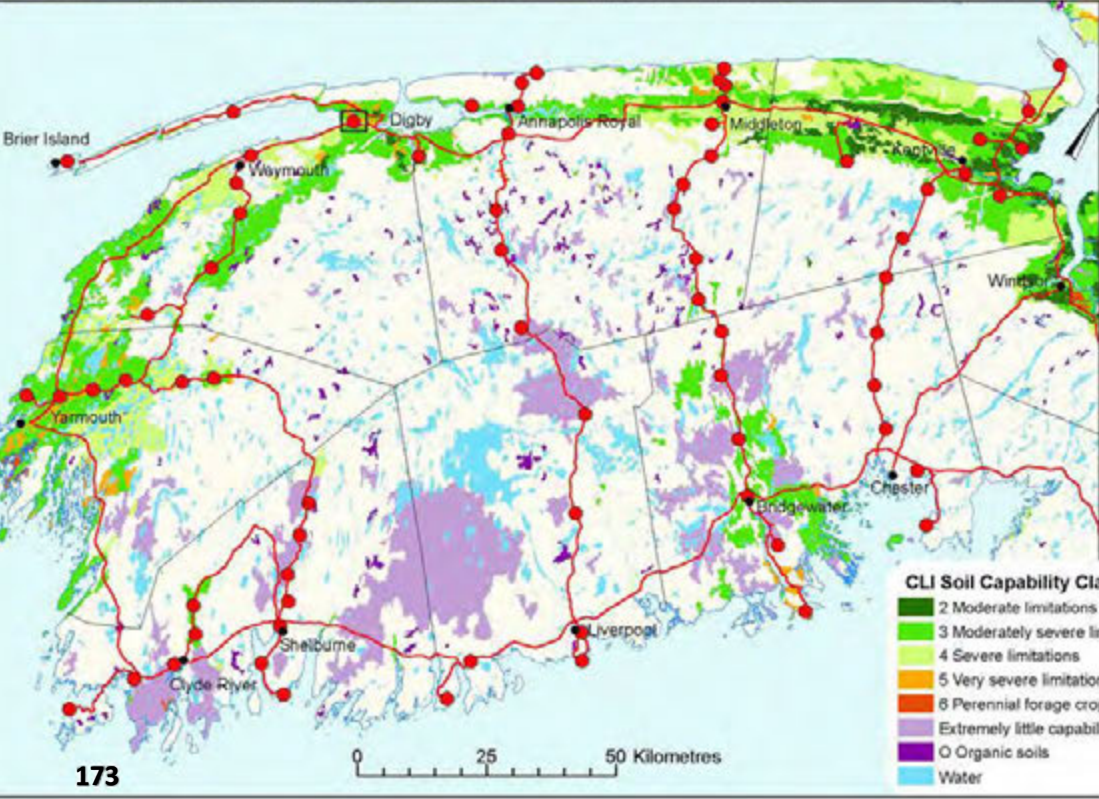


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 6 [0] | 0 [0] | -18.40 | 15.88 | -5.28 | -4.01 | 45.46 | 1.30 | 1.28 |
| Station Deployment: | February | 0 [0] | 0 [0] | -23.23 | 8.36 | -3.77 | -2.85 | 55.65 | 2.12 | 2.01 |
| September 30, 2003 | March | 4 [0] | 0 [0] | -12.08 | 11.76 | 0.44 | 0.94 | 99.39 | 3.41 | 3.19 |
| | April | 48 [0] | 10 [0] | -5.12 | 23.11 | 5.34 | 5.17 | 139.56 | 4.52 | 4.34 |
| Frost Free Start: | May | 216 [100] | 83 [44] | -1.02 | 29.27 | 11.72 | 10.87 | 154.87 | 5.09 | 4.85 |
| May 19, 2013 03:05 | June | 348 [348] | 198 [198] | 6.58 | 31.96 | 16.51 | 15.57 | 153.34 | 5.26 | 5.30 |
| | July | 503 [503] | 348 [348] | 11.29 | 31.79 | 21.10 | 20.09 | 166.19 | 6.04 | 5.91 |
| Frost Free End: | August | 439 [439] | 284 [284] | 7.31 | 29.49 | 18.91 | 17.86 | 167.26 | 5.10 | 4.82 |
| October 29, 2013 07:25 | September | 316 [316] | 167 [167] | 2.62 | 27.25 | 15.20 | 14.43 | 104.92 | 3.73 | 3.54 |
| | October | 146 [146] | 37 [37] | -4.16 | 23.48 | 9.35 | 9.65 | 94.41 | 2.51 | 2.45 |
| Frost Free Duration: | November | 41 [0] | 11 [0] | -9.95 | 20.52 | 3.47 | 3.61 | 38.82 | 1.56 | 1.59 |
| 163.18 days | December | 3 [0] | 0 [0] | -17.82 | 12.09 | -3.57 | -2.03 | 26.42 | 0.93 | 0.93 |
| | Totals, Averages or Extremes | 2070 [1852] | 1138 [1078] | -23.23 | 31.96 | 7.45 | 7.44 | 1,246.30 | 41.57 | 40.22 |

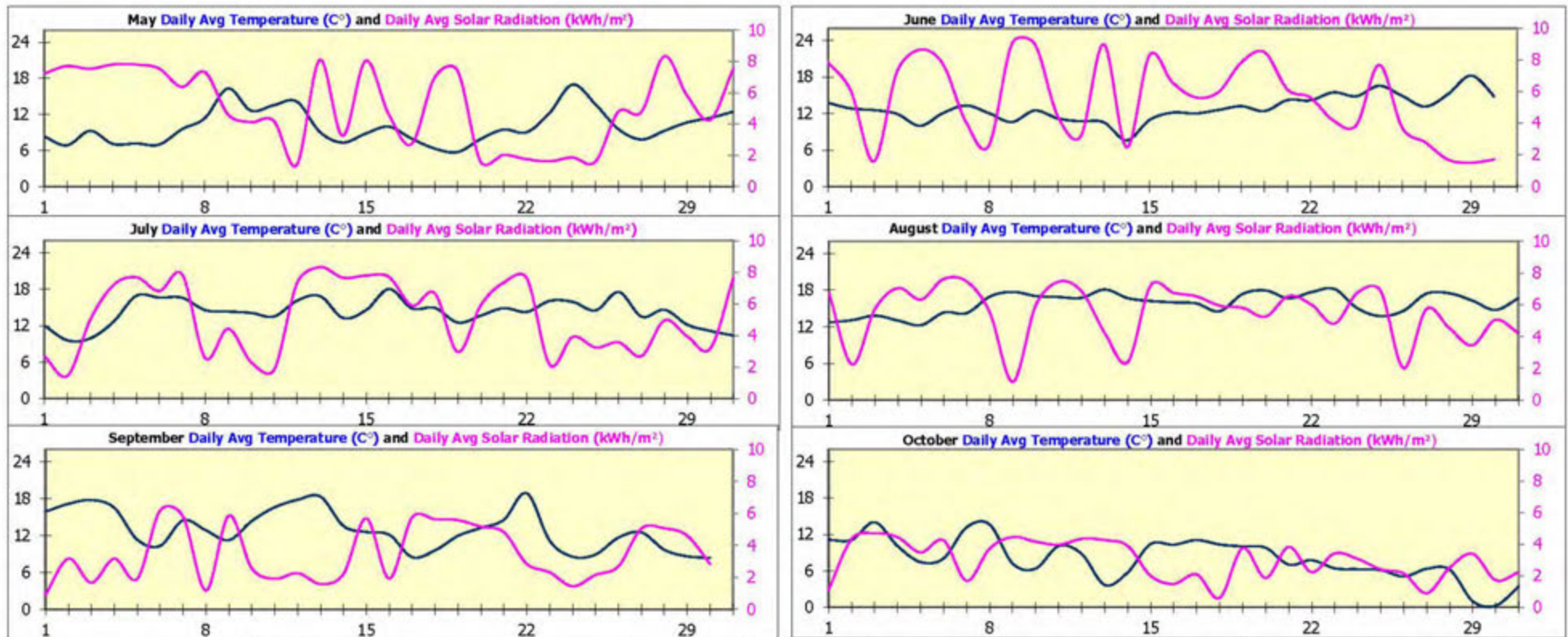
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|--------------|-----------------------|-------------|
| Station ID: | S100 (C) | Easting: | 276022.98 |
| Location: | Marshalltown | Northing: | 4940941.277 |
| County: | Digby | Height (m): | 22.03 |
| Contact: | Carl Seely | [UTM Zone 20, NAD 83] | |
| Deployment: | 9/30/2003 | | |



2013 Temperature and Solar Radiation Summary for Station S100

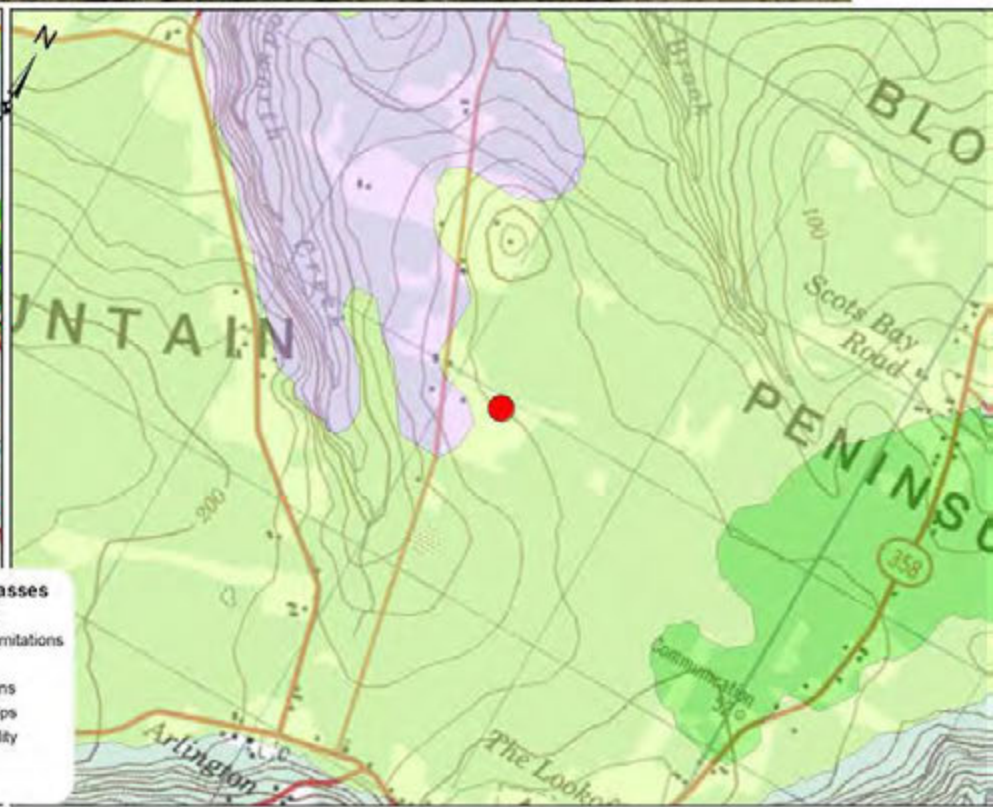
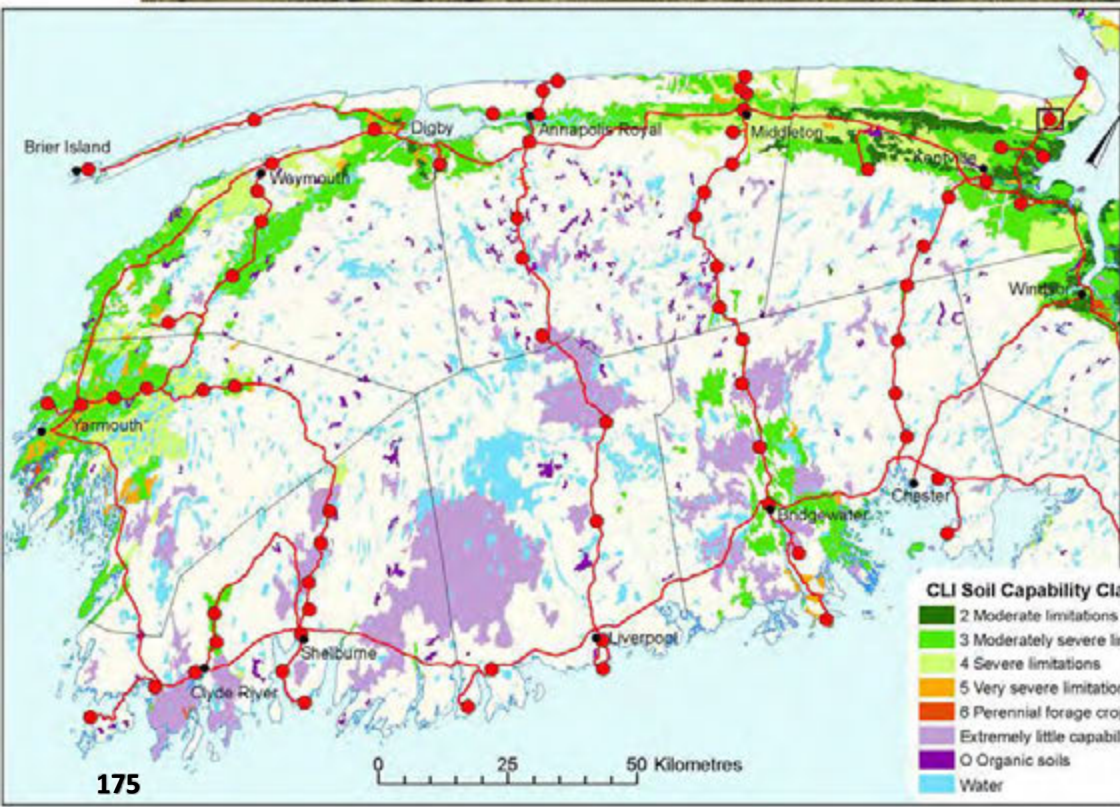


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 12, 2004 | January | 7 [0] | 0 [0] | -21.35 | 16.59 | -3.94 | -4.01 | 37.64 | 1.23 | 1.28 |
| | February | 1 [0] | 0 [0] | -18.31 | 10.75 | -2.99 | -2.85 | 54.10 | 1.94 | 2.01 |
| | March | 4 [0] | 0 [0] | -11.01 | 12.05 | 0.71 | 0.94 | 97.38 | 3.22 | 3.19 |
| | April | 27 [0] | 3 [0] | -4.98 | 18.79 | 4.82 | 5.17 | 137.64 | 4.75 | 4.34 |
| Frost Free Start: May 19, 2013 04:50 | May | 181 [80] | 53 [24] | -1.64 | 22.65 | 11.06 | 10.87 | 160.62 | 5.04 | 4.85 |
| | June | 279 [279] | 130 [130] | 3.75 | 23.56 | 13.99 | 15.57 | 171.22 | 5.61 | 5.30 |
| | July | 324 [324] | 169 [169] | 4.60 | 26.09 | 15.30 | 20.09 | 160.01 | 6.32 | 5.91 |
| Frost Free End: October 13, 2013 02:35 | August | 374 [374] | 219 [219] | 4.16 | 26.70 | 16.91 | 17.86 | 170.25 | 5.05 | 4.82 |
| | September | 273 [273] | 125 [125] | 0.68 | 26.59 | 14.09 | 14.43 | 104.10 | 3.78 | 3.54 |
| | October | 127 [71] | 27 [18] | -5.19 | 22.73 | 9.13 | 9.65 | 92.37 | 2.48 | 2.45 |
| Frost Free Duration: 146.91 days | November | 39 [0] | 8 [0] | -8.14 | 19.77 | 3.92 | 3.61 | 35.02 | 1.60 | 1.59 |
| | December | 3 [0] | 0 [0] | -14.73 | 11.45 | -1.96 | -2.03 | 24.01 | 0.89 | 0.93 |
| | Totals, Averages or Extremes | 1639 [1401] | 734 [685] | -21.35 | 26.70 | 6.75 | 7.44 | 1,244.36 | 41.93 | 40.22 |

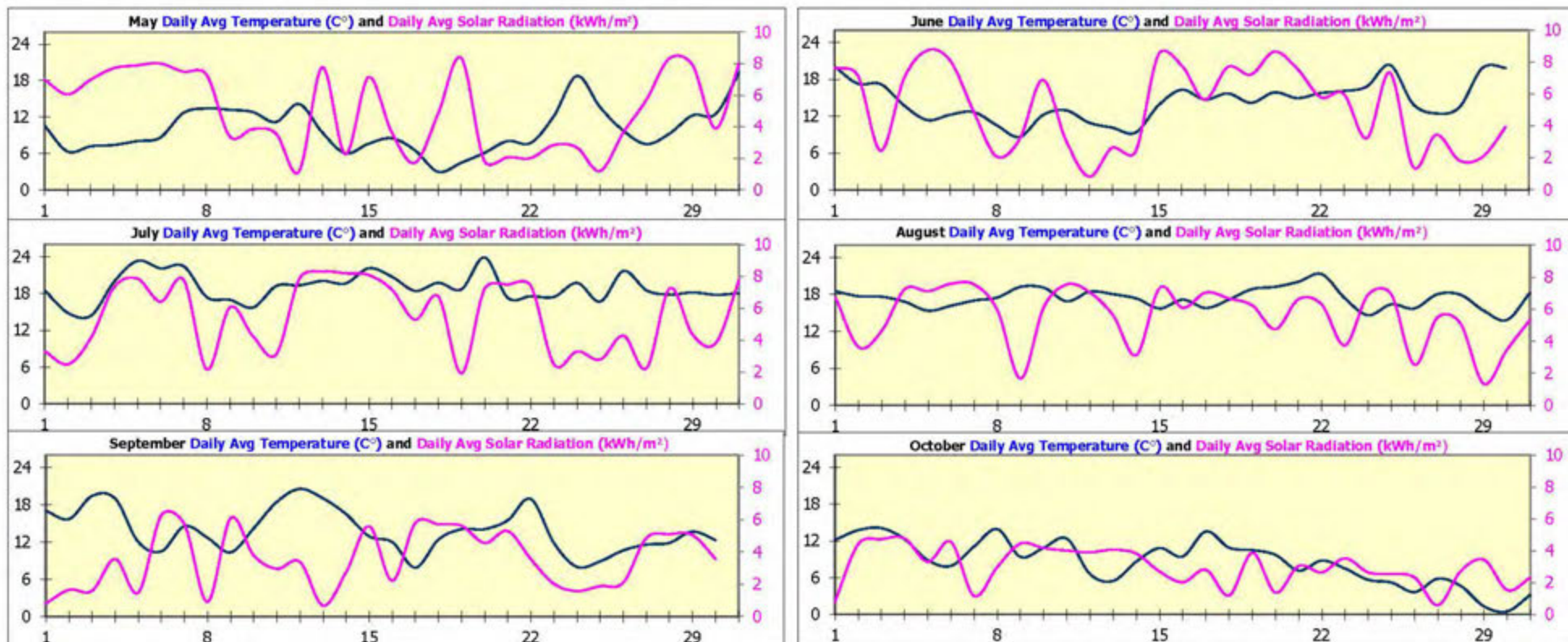
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|--------------|-----------------------|-------------|
| Station ID: | S120 (C) | Easting: | 388284.283 |
| Location: | Ross Creek | Northing: | 5007949.989 |
| County: | Kings | Height (m): | 202.58 |
| Contact: | Bill Crowson | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/17/2004 | | |



2013 Temperature and Solar Radiation Summary for Station S120

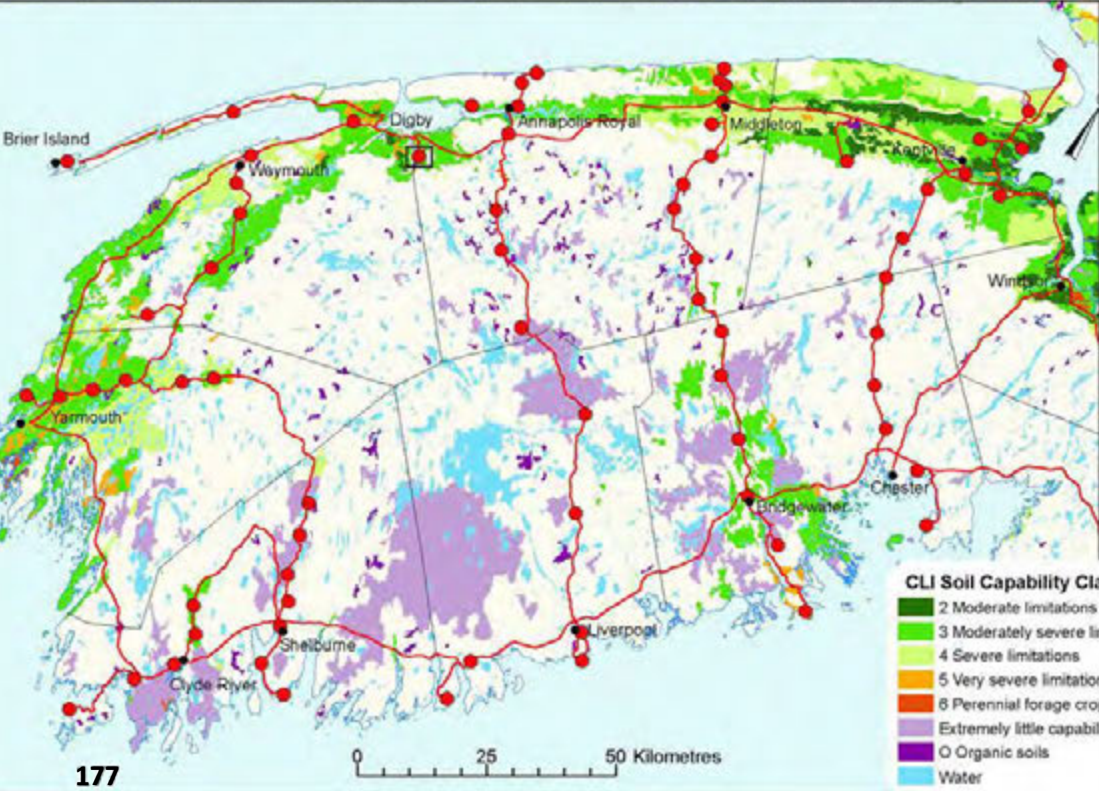


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|------------------------|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| | January | 2 [0] | 0 [0] | -19.52 | 14.11 | -6.32 | -4.01 | 42.56 | 1.45 | 1.28 |
| Station Deployment: | February | 0 [0] | 0 [0] | -21.15 | 5.97 | -5.08 | -2.85 | 56.13 | 1.92 | 2.01 |
| May 17, 2004 | March | 1 [0] | 0 [0] | -14.22 | 9.48 | -1.03 | 0.94 | 102.05 | 1.34 | 3.19 |
| | April | 37 [0] | 5 [0] | -5.26 | 21.42 | 3.86 | 5.17 | 141.75 | 4.48 | 4.34 |
| Frost Free Start: | May | 161 [78] | 49 [29] | -1.11 | 26.41 | 9.94 | 10.87 | 156.25 | 5.16 | 4.85 |
| May 19, 2013 03:50 | June | 291 [291] | 142 [142] | 7.21 | 28.46 | 14.45 | 15.57 | 155.41 | 5.46 | 5.30 |
| | July | 441 [441] | 286 [286] | 12.18 | 29.17 | 18.97 | 20.09 | 168.59 | 6.32 | 5.91 |
| Frost Free End: | August | 394 [394] | 239 [239] | 9.79 | 27.14 | 17.37 | 17.86 | 173.47 | 5.19 | 4.82 |
| October 29, 2013 23:59 | September | 275 [275] | 130 [130] | 3.08 | 25.21 | 13.90 | 14.43 | 106.36 | 3.62 | 3.54 |
| | October | 129 [129] | 31 [31] | -3.11 | 19.92 | 8.59 | 9.65 | 92.55 | 2.49 | 2.45 |
| Frost Free Duration: | November | 30 [0] | 6 [0] | -8.48 | 18.91 | 2.35 | 3.61 | 39.23 | 1.63 | 1.59 |
| 163.84 days | December | 1 [0] | 0 [0] | -19.19 | 10.37 | -5.08 | -2.03 | 24.62 | 0.93 | 0.93 |
| | Totals, Averages or Extremes | 1762 [1608] | 888 [857] | -21.15 | 29.17 | 5.99 | 7.44 | 1,258.97 | 39.98 | 40.22 |

South West NS Temperature and Solar Radiation Study

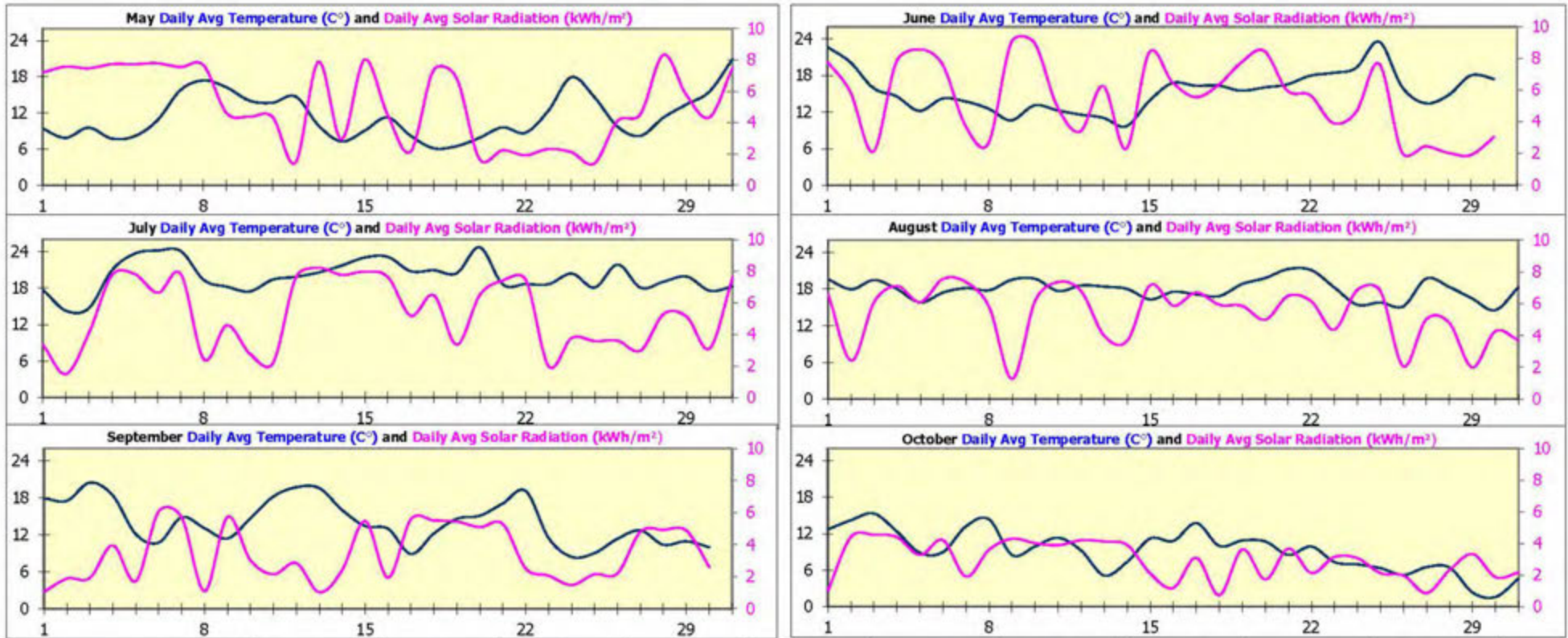
Station Description

| | | | |
|-------------|-----------------------|-----------------------|-------------|
| Station ID: | S130 (C) | Easting: | 290413.644 |
| Location: | Bear River | Northing: | 4941280.304 |
| County: | Annapolis | Height (m): | 103.52 |
| Contact: | Phyllis & Robert Wood | [UTM Zone 20, NAD 83] | |
| Deployment: | 5/13/2004 | | |



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - O Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station S130



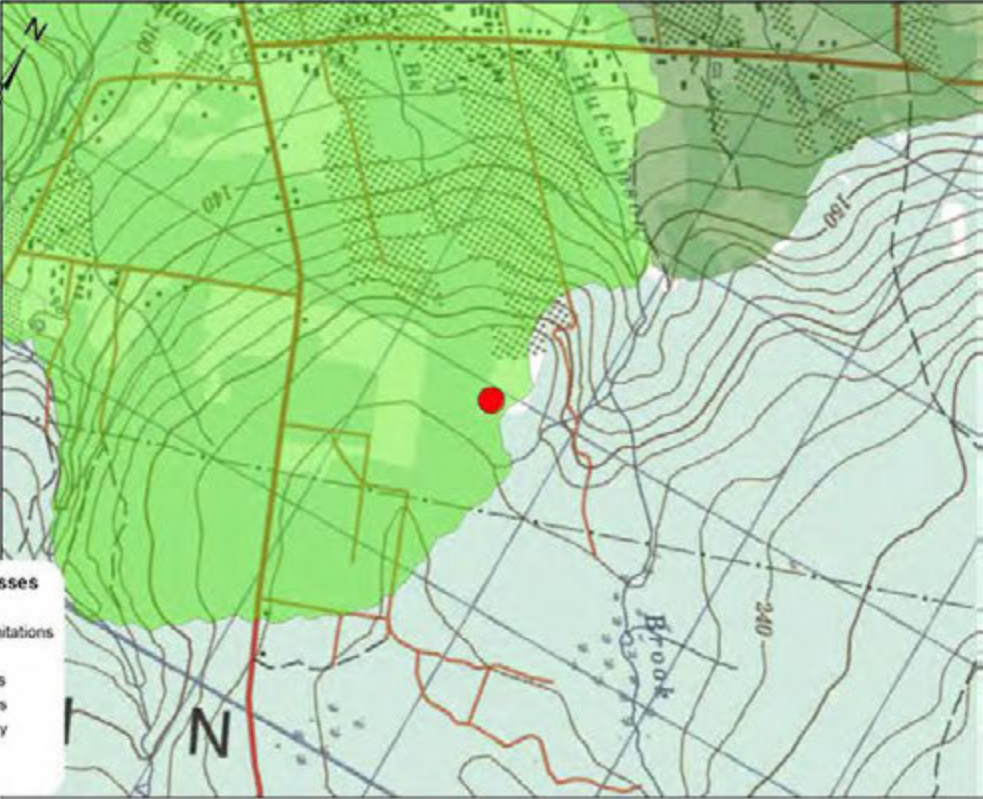
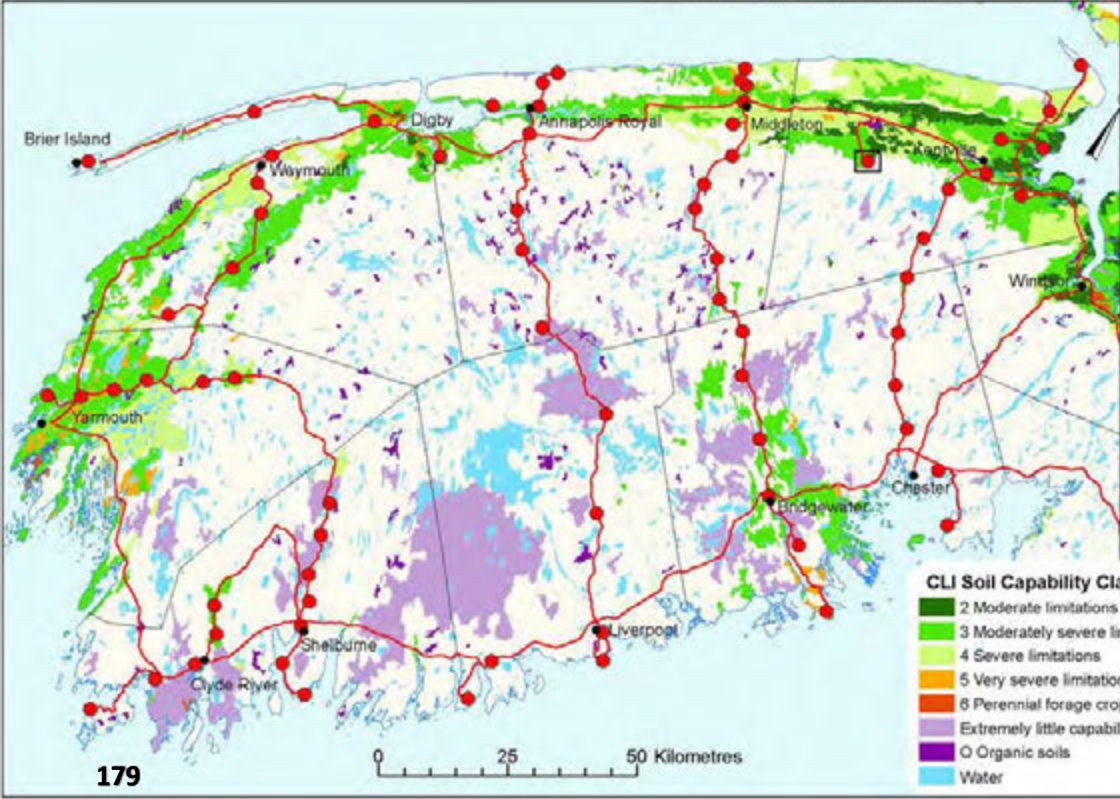
| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: May 13, 2004 | January | 6 [0] | 0 [0] | -16.48 | 15.91 | -3.98 | -4.01 | 39.45 | 1.25 | 1.28 |
| | February | 0 [0] | 0 [0] | -17.11 | 8.61 | -3.18 | -2.85 | 52.43 | 1.93 | 2.01 |
| | March | 3 [0] | 0 [0] | -11.15 | 11.53 | 0.72 | 0.94 | 96.00 | 3.27 | 3.19 |
| | April | 43 [0] | 5 [0] | -3.18 | 20.64 | 5.11 | 5.17 | 138.19 | 4.66 | 4.34 |
| Frost Free Start: May 05, 2013 06:55 | May | 196 [181] | 70 [70] | -1.32 | 28.14 | 11.42 | 10.87 | 161.33 | 5.02 | 4.85 |
| | June | 327 [327] | 177 [177] | 6.03 | 32.31 | 15.50 | 15.57 | 169.73 | 5.53 | 5.30 |
| Frost Free End: October 30, 2013 01:25 | July | 473 [473] | 318 [318] | 10.84 | 30.58 | 19.94 | 20.09 | 163.11 | 6.26 | 5.91 |
| | August | 417 [417] | 262 [262] | 6.70 | 28.05 | 17.95 | 17.86 | 167.32 | 5.12 | 4.82 |
| | September | 281 [281] | 134 [134] | 2.58 | 24.77 | 14.09 | 14.43 | 102.72 | 3.63 | 3.54 |
| Frost Free Duration: 177.77 days | October | 141 [141] | 35 [35] | -3.82 | 21.34 | 9.19 | 9.65 | 90.90 | 2.43 | 2.45 |
| | November | 38 [0] | 9 [0] | -8.73 | 19.02 | 3.23 | 3.61 | 35.05 | 1.57 | 1.59 |
| | December | 0 [0] | 0 [0] | -15.94 | 12.06 | -2.46 | -2.03 | 23.79 | 0.88 | 0.93 |
| | Totals, Averages or Extremes | 1925 [1820] | 1010 [996] | -17.11 | 32.31 | 7.29 | 7.44 | 1,240.04 | 41.54 | 40.22 |

South West NS Temperature and Solar Radiation Study

Station Description

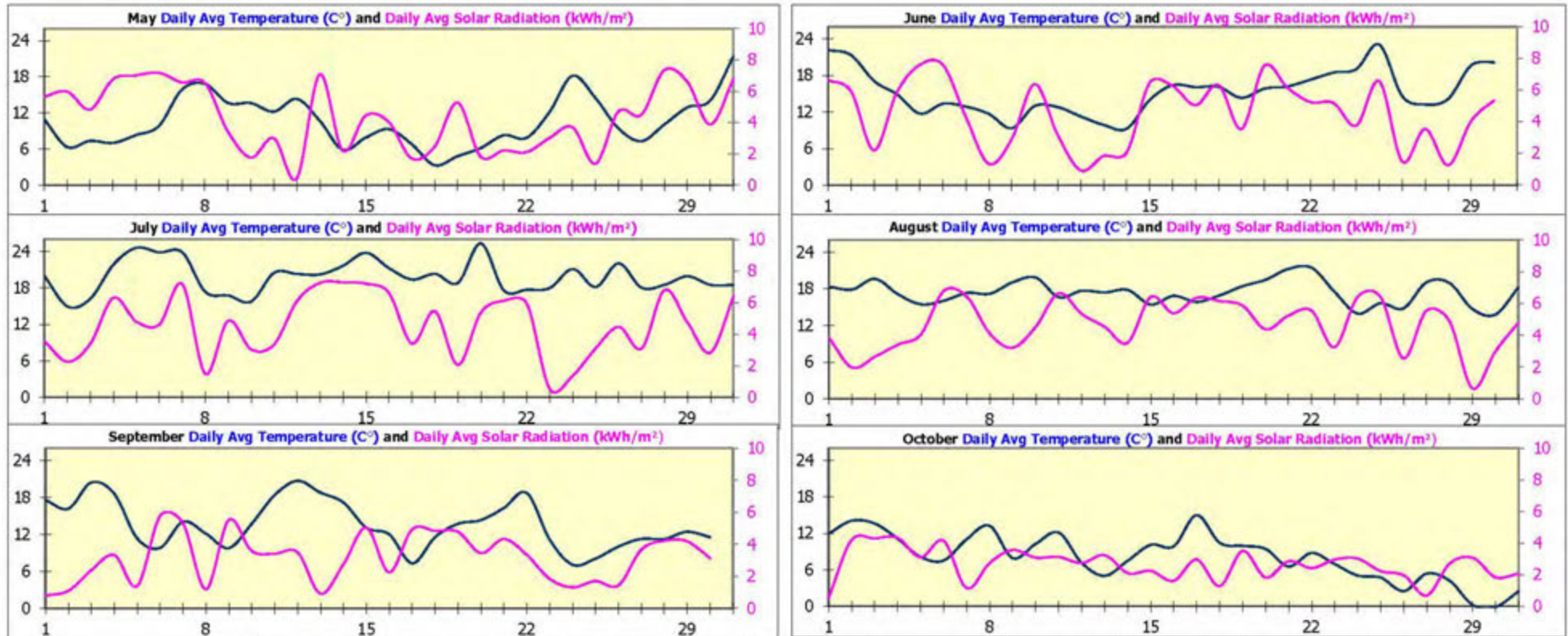
Station ID: S140 (C)
Location: Morrystown
County: Kings
Contact: Neil Clem
Deployment: 6/23/2005

Easting: 362568.48
Northing: 4981948.438
Height (m): 231.76
[UTM Zone 20, NAD 83]



- CLI Soil Capability Classes**
- 2 Moderate limitations
 - 3 Moderately severe limitations
 - 4 Severe limitations
 - 5 Very severe limitations
 - 6 Perennial forage crops
 - Extremely little capability
 - 0 Organic soils
 - Water

2013 Temperature and Solar Radiation Summary for Station S140

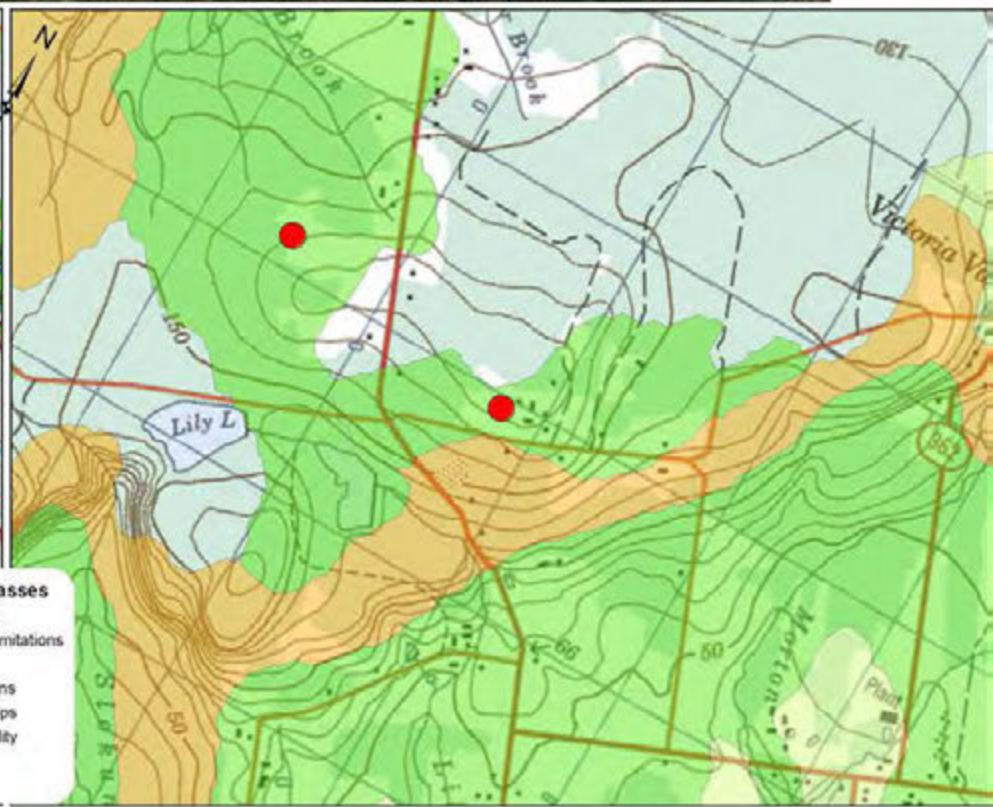
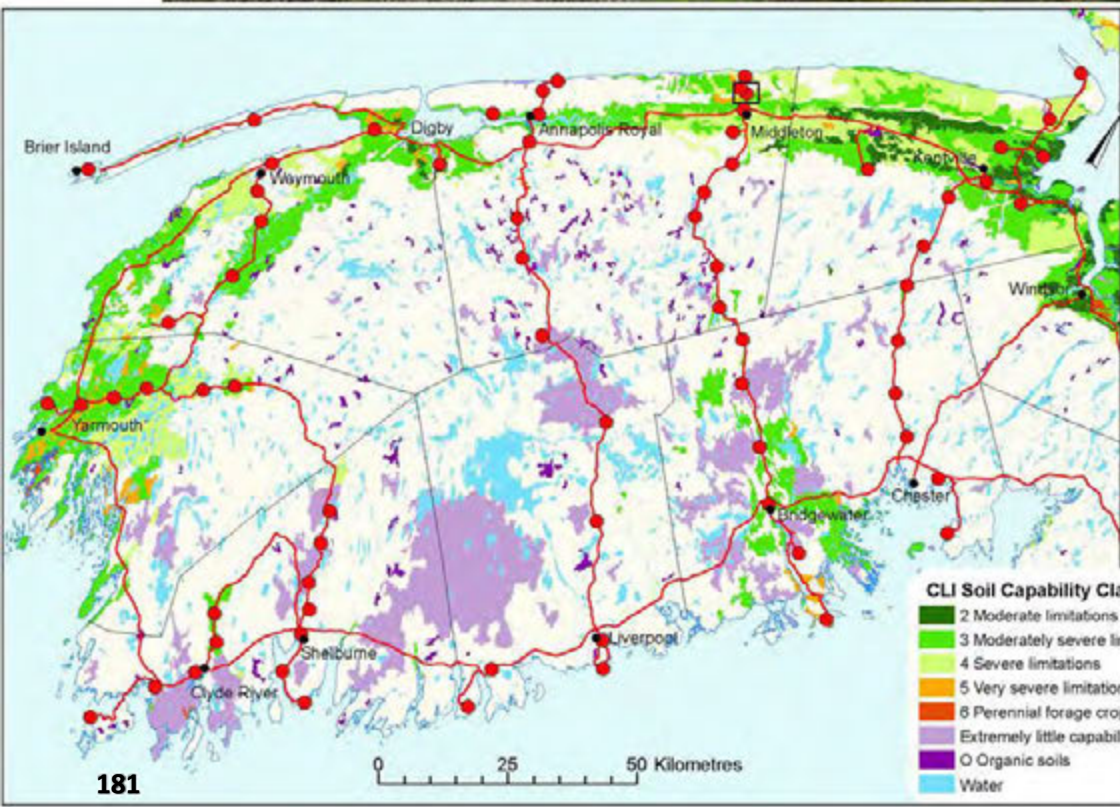


| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: June 23, 2005 | January | 3 [0] | 0 [0] | -18.83 | 13.56 | -5.55 | -4.01 | 37.68 | 1.16 | 1.28 |
| | February | 0 [0] | 0 [0] | -19.48 | 7.02 | -4.28 | -2.85 | 52.35 | 1.73 | 2.01 |
| | March | 1 [0] | 0 [0] | -14.17 | 9.83 | -1.06 | 0.94 | 83.80 | 3.33 | 3.19 |
| | April | 39 [0] | 4 [0] | -6.08 | 21.12 | 4.03 | 5.17 | 114.08 | 4.47 | 4.34 |
| Frost Free Start: May 19, 2013 06:30 | May | 184 [84] | 66 [34] | -1.86 | 27.87 | 10.55 | 10.87 | 134.29 | 5.10 | 4.85 |
| | June | 317 [317] | 168 [168] | 6.51 | 31.16 | 15.32 | 15.57 | 136.52 | 5.27 | 5.30 |
| | July | 469 [469] | 314 [314] | 10.97 | 30.61 | 19.82 | 20.09 | 140.68 | 6.14 | 5.91 |
| Frost Free End: October 29, 2013 05:35 | August | 398 [398] | 243 [243] | 7.32 | 27.81 | 17.41 | 17.86 | 143.92 | 5.06 | 4.82 |
| | September | 271 [271] | 129 [129] | 1.85 | 24.35 | 13.64 | 14.43 | 95.57 | 3.58 | 3.54 |
| | October | 116 [116] | 23 [23] | -3.56 | 22.21 | 8.14 | 9.65 | 81.63 | 2.38 | 2.45 |
| Frost Free Duration: 162.96 days | November | 29 [0] | 6 [0] | -10.92 | 18.43 | 1.83 | 3.61 | 37.92 | 1.48 | 1.59 |
| | December | 1 [0] | 0 [0] | -19.07 | 10.40 | -4.67 | -2.03 | 22.93 | 0.70 | 0.93 |
| | Totals, Averages or Extremes | 1828 [1655] | 953 [911] | -19.48 | 31.16 | 6.27 | 7.44 | 1,081.39 | 40.42 | 40.22 |

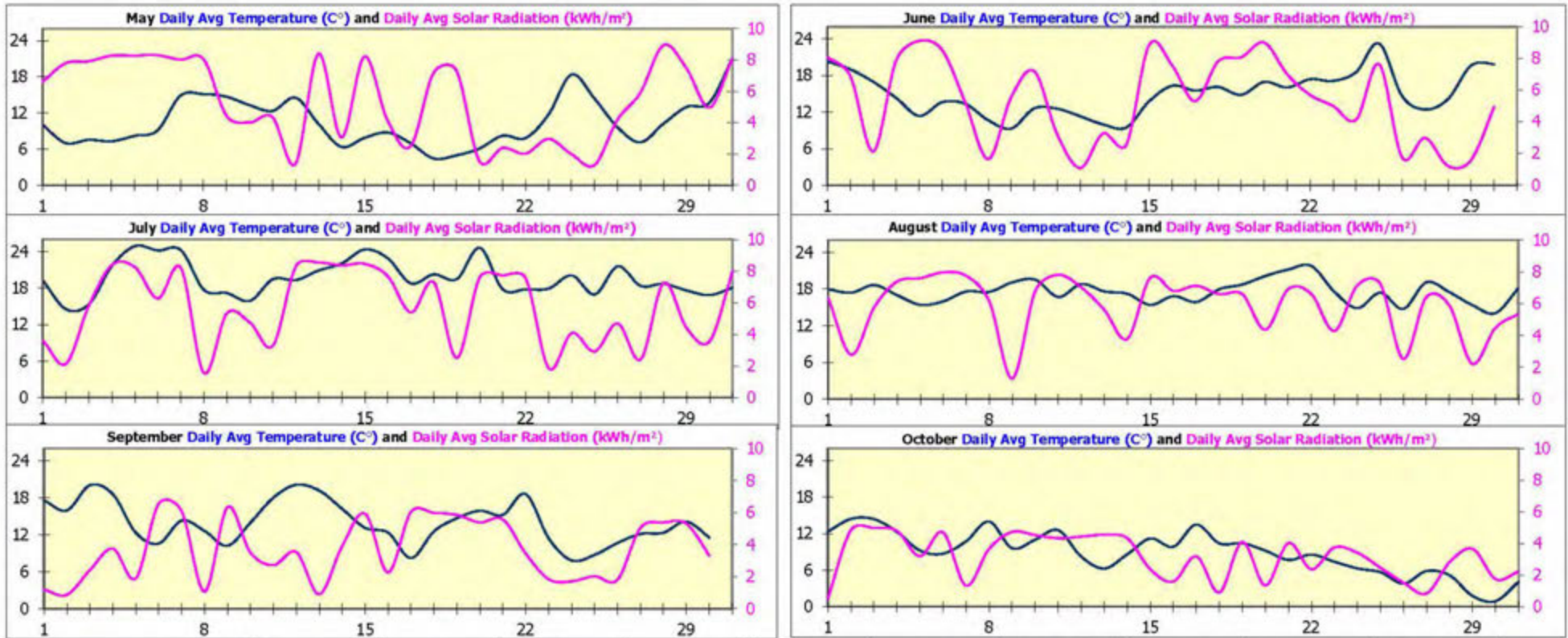
South West NS Temperature and Solar Radiation Study

Station Description

| | | | |
|-------------|-------------|-----------------------|-------------|
| Station ID: | S160 (C) | Easting: | 334791.013 |
| Location: | Lily Lake | Northing: | 4982957.011 |
| County: | Annapolis | Height (m): | 188.02 |
| Contact: | John Briere | [UTM Zone 20, NAD 83] | |
| Deployment: | 12/15/2006 | | |



2013 Temperature and Solar Radiation Summary for Station S160



| | 2013 Month | GDD (B5°C) [FFGDD] | GDD (B10°C) [FFGDD] | Min Temp (°C) | Max Temp (°C) | Avg Temp (°C) | Avg Temp All Stations (°C) | Total Solar Radiation (kWh/m²/month) | Solar Radiation (kWh/m²/day) | Solar Radiation All Stations (kWh/m²/day) |
|---|------------------------------|--------------------|---------------------|---------------|---------------|---------------|----------------------------|--------------------------------------|------------------------------|---|
| Station Deployment: December 15, 2006 | January | 4 [0] | 0 [0] | -18.41 | 15.12 | -5.61 | -4.01 | 45.70 | 1.48 | 1.28 |
| | February | 0 [0] | 0 [0] | -19.07 | 7.07 | -4.54 | -2.85 | 64.47 | 2.26 | 2.01 |
| | March | 2 [0] | 0 [0] | -13.47 | 9.65 | -0.48 | 0.94 | 106.31 | 3.70 | 3.19 |
| | April | 33 [0] | 4 [0] | -5.41 | 19.78 | 4.20 | 5.17 | 146.87 | 5.10 | 4.34 |
| Frost Free Start: May 19, 2013 06:25 | May | 177 [82] | 60 [33] | -0.08 | 27.10 | 10.48 | 10.87 | 169.89 | 5.68 | 4.85 |
| | June | 311 [311] | 161 [161] | 6.76 | 30.28 | 15.05 | 15.57 | 160.94 | 6.14 | 5.30 |
| Frost Free End: October 30, 2013 08:20 | July | 462 [462] | 307 [307] | 12.47 | 29.47 | 19.63 | 20.09 | 175.94 | 6.97 | 5.91 |
| | August | 396 [396] | 241 [241] | 9.39 | 27.45 | 17.51 | 17.86 | 182.30 | 5.45 | 4.82 |
| | September | 279 [279] | 133 [133] | 4.57 | 24.50 | 13.99 | 14.43 | 111.85 | 3.78 | 3.54 |
| Frost Free Duration: 164.08 days | October | 139 [139] | 33 [33] | -2.81 | 20.31 | 8.85 | 9.65 | 97.24 | 2.58 | 2.45 |
| | November | 31 [0] | 7 [0] | -7.93 | 18.62 | 2.47 | 3.61 | 38.31 | 1.64 | 1.59 |
| | December | 2 [0] | 0 [0] | -18.23 | 10.67 | -4.22 | -2.03 | 28.80 | 0.93 | 0.93 |
| | Totals, Averages or Extremes | 1836 [1669] | 946 [908] | -19.07 | 30.28 | 6.44 | 7.44 | 1,328.62 | 45.72 | 40.22 |

