

APPENDIX

D

CLIMATE DATA



Figure D-1 Monthly Net Surplus

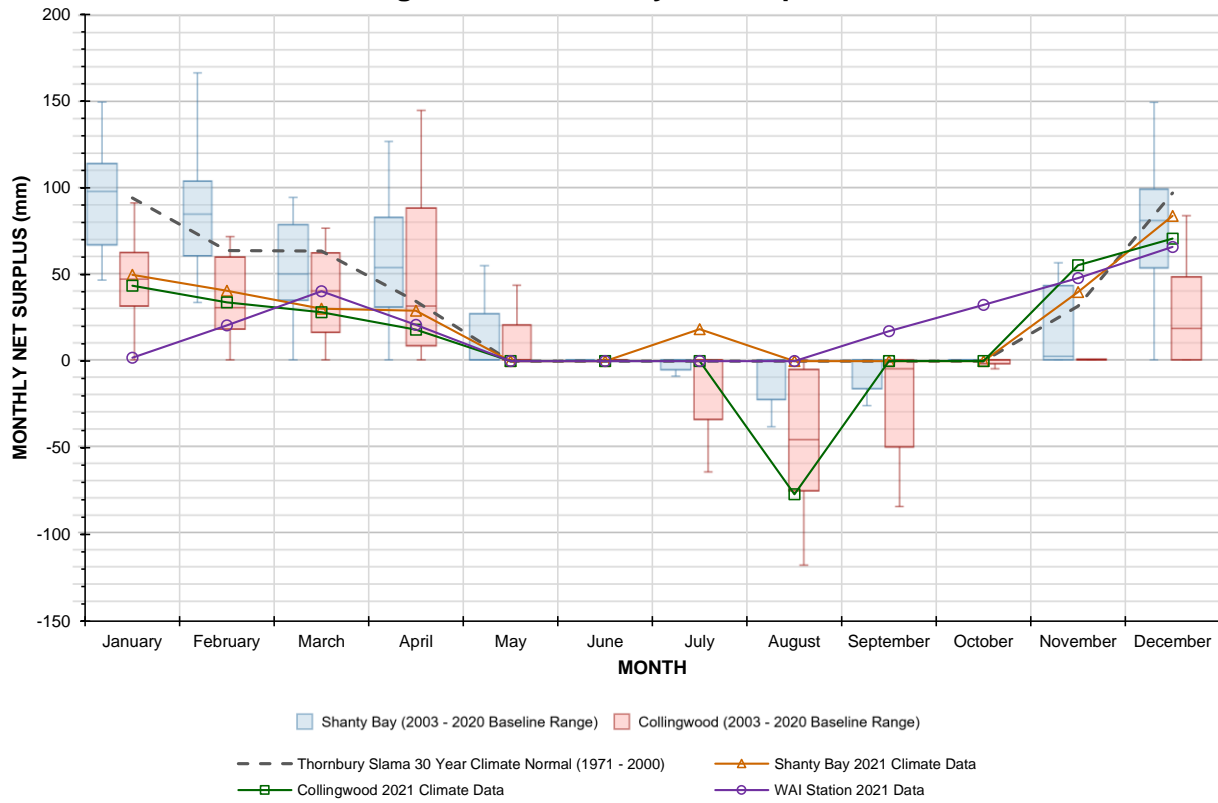


Figure D-2 Monthly Average Temperature

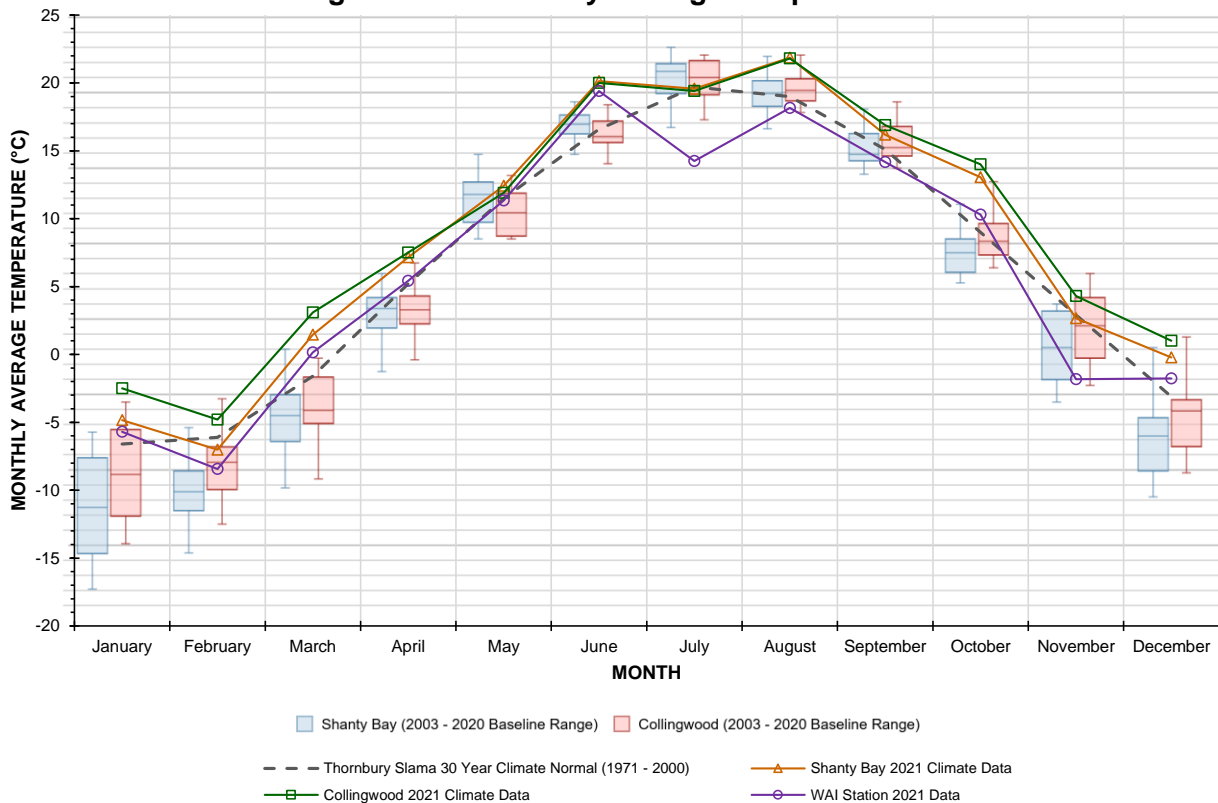


Figure D-3 Mad River Daily Average Discharge

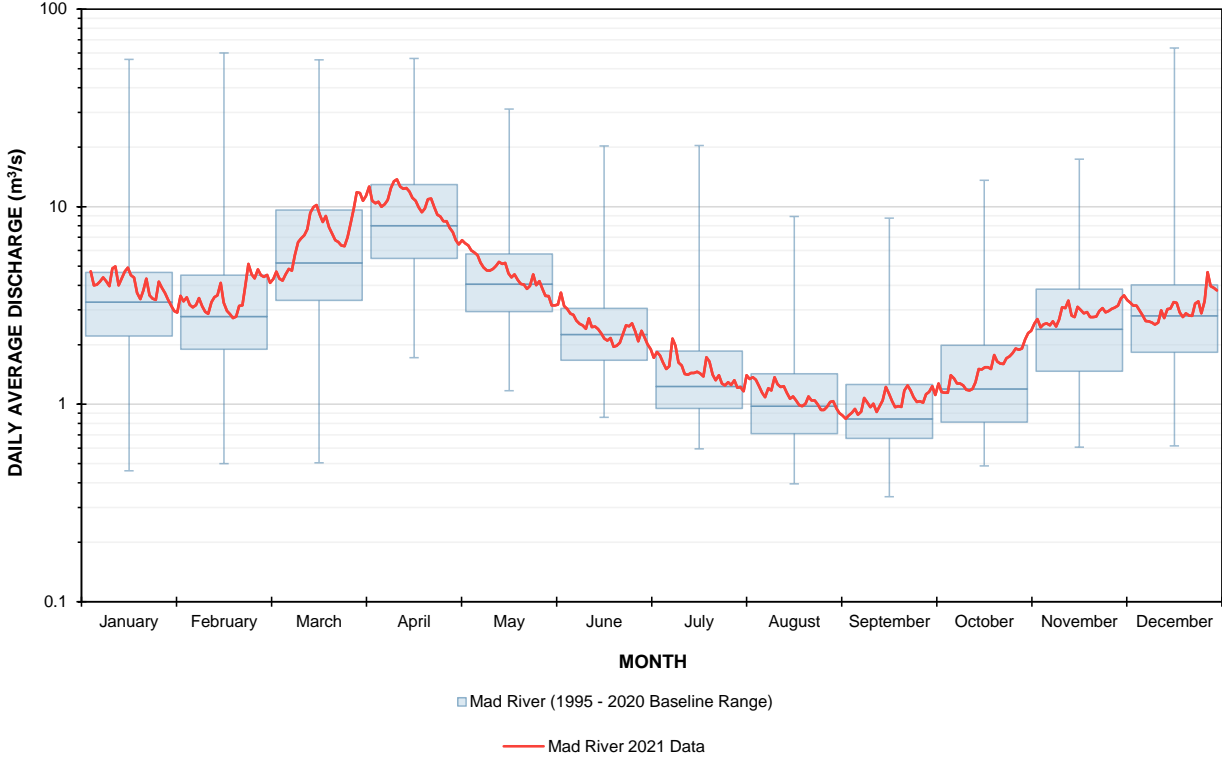


Figure D-4 Pretty River Daily Average Discharge

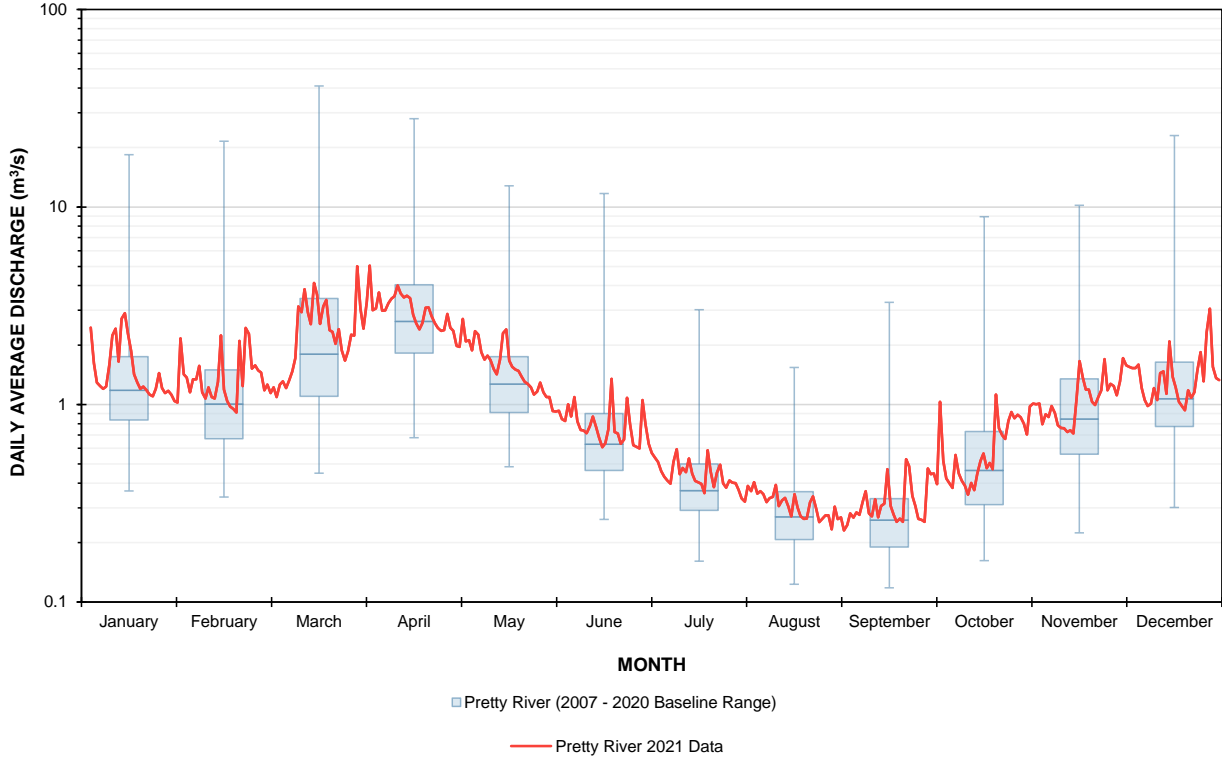


Table D-1: 30 Year Climate Normal (1971 - 2000)

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-6.6	0.0	0.0	0.8	0.0	94.2	150.0	94.2	0.0	
February	-6.1	0.0	0.0	0.8	0.0	63.8	150.0	63.8	0.0	
March	-1.6	0.0	0.0	1.0	0.0	63.5	150.0	63.5	0.0	
April	5.2	1.1	24.9	1.1	27.9	62.4	150.0	34.5	0.0	
May	11.5	3.5	56.8	1.3	72.1	70.6	148.5	0.0	0.0	
June	16.6	6.1	83.1	1.3	106.4	75.7	117.8	0.0	0.0	
July	19.7	7.9	99.3	1.3	129.0	80.9	69.7	0.0	0.0	
August	19.0	7.5	95.6	1.2	114.7	85.8	40.7	0.0	0.0	
September	15.1	5.3	75.3	1.0	78.3	94.0	56.4	0.0	0.0	
October	9.0	2.4	44.0	1.0	41.8	81.0	95.5	0.0	0.0	
November	2.9	0.4	13.6	0.8	11.0	97.2	150.0	31.7	0.0	
December	-3.1	0.0	0.0	0.8	0.0	97.0	150.0	97.0	0.0	
Total	6.8	34.3			581.4	966.1		384.7	0.0	
						Net Water Surplus	384.7	mm		

- Notes:
- calculations based on Thornthwaite Mather Method
 - °C calculated mean of daily temperatures for the month, in degrees Celcius
 - I denotes Heat Index
 - E denotes Evapotranspiration
 - WHC denotes Water Holding Capacity
 - A value of 150 mm was used for the water holding capacity of the soils
 - Climate normal data from Thornbury Slama Climatological Station located at 44°34'N 80°29'W/O, 213 masl

Table D-2a: 2003 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-11.2	0.0	0.0	0.8	0.0	128.2	150.0	128.2	0.0	
February	-10.5	0.0	0.0	0.8	0.0	111.6	150.0	111.6	0.0	
March	-2.9	0.0	0.0	1.0	0.0	76.6	150.0	76.6	0.0	
April	3.5	0.6	16.1	1.1	18.0	51.2	150.0	33.2	0.0	
May	11.4	3.5	55.6	1.3	70.7	73.0	150.0	2.3	0.0	
June	17.3	6.5	86.2	1.3	110.4	45.4	85.0	0.0	0.0	
July	19.8	8.0	99.4	1.3	129.2	61.0	16.8	0.0	0.0	
August	20.6	8.5	103.6	1.2	124.3	68.8	0.0	0.0	38.7	
September	15.8	5.7	78.4	1.0	81.5	65.2	0.0	0.0	16.3	
October	7.8	2.0	37.3	1.0	35.5	111.0	75.5	0.0	0.0	
November	3.4	0.6	15.6	0.8	12.6	131.0	150.0	43.9	0.0	
December	-2.6	0.0	0.0	0.8	0.0	97.4	150.0	97.4	0.0	
Total	6.0	35.2			582.2	1020.4		493.2	55.0	
Net Water Surplus						438.2	mm			

Table D-3a: 2004 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-12.9	0.0	0.0	0.8	0.0	149.6	150.0	149.6	0.0	
February	-6.4	0.0	0.0	0.8	0.0	56.6	150.0	56.6	0.0	
March	-0.2	0.0	0.0	1.0	0.0	94.2	150.0	94.2	0.0	
April	5.5	1.2	26.6	1.1	29.8	43.0	150.0	13.2	0.0	
May	11.5	3.5	57.0	1.3	72.4	148.6	150.0	76.2	0.0	
June	16.0	5.8	80.2	1.3	102.6	44.0	91.4	0.0	0.0	
July	19.2	7.6	96.8	1.3	125.8	124.8	90.3	0.0	0.0	
August	17.6	6.7	88.5	1.2	106.2	48.0	32.2	0.0	0.0	
September	16.7	6.2	83.8	1.0	87.2	37.4	0.0	0.0	17.6	
October	9.3	2.6	45.8	1.0	43.5	61.6	18.1	0.0	0.0	
November	3.1	0.5	14.7	0.8	11.9	81.8	88.0	0.0	0.0	
December	-5.7	0.0	0.0	0.8	0.0	115.6	150.0	53.6	0.0	
Total	6.1	34.0			579.5	1005.2		443.3	17.6	
Net Water Surplus						425.7	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Shanty Bay Climatological Station located at 44°24'N 79°37.8'W/O, 250 masl

Table D-4a: 2005 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-9.6	0.0	0.0	0.8	0.0	59.2	150.0	59.2	0.0	
February	-6.6	0.0	0.0	0.8	0.0	61.8	150.0	61.8	0.0	
March	-4.1	0.0	0.0	1.0	0.0	39.4	150.0	39.4	0.0	
April	6.3	1.4	26.3	1.1	29.4	121.0	150.0	91.6	0.0	
May	10.5	3.1	47.0	1.3	59.7	26.8	117.1	0.0	0.0	
June	20.5	8.4	100.8	1.3	129.0	142.4	130.5	0.0	0.0	
July	21.6	9.1	107.0	1.3	139.0	50.4	41.8	0.0	0.0	
August	20.7	8.5	101.9	1.2	122.3	65.2	0.0	0.0	15.2	
September	17.9	6.9	86.3	1.0	89.8	78.6	0.0	0.0	11.2	
October	10.6	3.1	47.5	1.0	45.2	44.0	0.0	0.0	1.2	
November	3.8	0.7	14.8	0.8	12.0	118.2	106.2	0.0	0.0	
December	-4.7	0.0	0.0	0.8	0.0	114.6	150.0	70.8	0.0	
Total	7.2	41.2			626.4	921.6		322.8	27.6	
Net Water Surplus						295.2	mm			

Table D-5a: 2006 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-2.5	0.0	0.0	0.8	0.0	78.2	150.0	78.2	0.0	
February	-7.0	0.0	0.0	0.8	0.0	166.6	150.0	166.6	0.0	
March	-1.5	0.0	0.0	1.0	0.0	61.0	150.0	61.0	0.0	
April	7.0	1.7	31.4	1.1	35.1	85.0	150.0	49.9	0.0	
May	13.3	4.4	63.4	1.3	80.5	52.2	121.7	0.0	0.0	
June	18.3	7.1	89.9	1.3	115.1	85.8	92.4	0.0	0.0	
July	21.9	9.3	109.5	1.3	142.4	143.8	93.8	0.0	0.0	
August	19.6	7.9	97.0	1.2	116.4	22.2	0.0	0.0	0.4	
September	14.6	5.0	70.2	1.0	73.0	100.2	27.2	0.0	0.0	
October	8.1	2.1	36.8	1.0	35.0	132.4	124.6	0.0	0.0	
November	4.6	0.9	19.8	0.8	16.0	97.8	150.0	56.4	0.0	
December	0.5	0.0	1.7	0.8	1.4	88.8	150.0	87.4	0.0	
Total	8.1	38.3			614.9	1114.0		499.5	0.4	
Net Water Surplus						499.1	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Shanty Bay Climatological Station located at 44°24'N 79°37.8'W/O, 250 masl

Table D-6a: 2007 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-5.8	0.0	0.0	0.8	0.0	75.7	150.0	75.7	0.0	
February	-9.5	0.0	0.0	0.8	0.0	103.3	150.0	103.3	0.0	
March	-1.3	0.0	0.0	1.0	0.0	35.2	150.0	35.2	0.0	
April	6.5	1.5	27.5	1.1	30.8	91.4	150.0	60.6	0.0	
May	13.4	4.4	62.4	1.3	79.3	48.1	118.8	0.0	0.0	
June	18.7	7.3	91.0	1.3	116.5	13.9	16.3	0.0	0.0	
July	20.0	8.1	98.2	1.3	127.6	79.7	0.0	0.0	31.7	
August	21.1	8.8	104.3	1.2	125.2	48.5	0.0	0.0	76.7	
September	17.0	6.3	81.7	1.0	85.0	58.4	0.0	0.0	26.6	
October	12.6	4.0	58.2	1.0	55.3	101.9	46.6	0.0	0.0	
November	1.4	0.1	4.8	0.8	3.9	89.9	132.6	0.0	0.0	
December	-4.1	0.0	0.0	0.8	0.0	166.9	150.0	149.5	0.0	
Total	7.5	40.7			623.6	912.9		424.2	134.9	
Net Water Surplus						289.3	mm			

Table D-7a: 2008 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-4.3	0.0	0.0	0.8	0.0	98.6	150.0	98.6	0.0	
February	-7.1	0.0	0.0	0.8	0.0	135.3	150.0	135.3	0.0	
March	-4.3	0.0	0.0	1.0	0.0	87.5	150.0	87.5	0.0	
April	-8.6	0.0	0.0	1.1	0.0	33.3	150.0	33.3	0.0	
May	10.3	3.0	51.2	1.3	65.0	99.3	150.0	34.3	0.0	
June	18.6	7.3	93.9	1.3	120.2	73.0	102.8	0.0	0.0	
July	20.5	8.4	103.7	1.3	134.8	95.3	63.3	0.0	0.0	
August	18.4	7.2	92.8	1.2	111.4	67.5	19.4	0.0	0.0	
September	15.7	5.6	78.9	1.0	82.0	105.0	42.4	0.0	0.0	
October	8.1	2.1	40.0	1.0	38.0	39.5	43.9	0.0	0.0	
November	0.9	0.1	4.2	0.8	3.4	146.0	150.0	36.5	0.0	
December	-4.9	0.0	0.0	0.8	0.0	112.1	150.0	112.1	0.0	
Total	5.3	33.6			554.8	1092.4		537.6	0.0	
Net Water Surplus						537.6	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Shanty Bay Climatological Station located at 44°24'N 79°37.8'W/O, 250 masl

Table D-8a: 2009 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm
January	-10.7	0.0	0.0	0.8	0.0	113.2	150.0	113.2	0.0
February	-5.9	0.0	0.0	0.8	0.0	105.0	150.0	105.0	0.0
March	-0.7	0.0	0.0	1.0	0.0	50.7	150.0	50.7	0.0
April	6.4	1.5	31.1	1.1	34.8	146.1	150.0	111.3	0.0
May	12.3	3.9	61.1	1.3	77.6	78.7	150.0	1.1	0.0
June	15.9	5.7	79.6	1.3	101.9	81.6	129.7	0.0	0.0
July	17.7	6.7	89.0	1.3	115.7	104.9	118.9	0.0	0.0
August	19.4	7.7	97.8	1.2	117.4	58.7	60.3	0.0	0.0
September	15.5	5.5	77.6	1.0	80.7	42.1	21.7	0.0	0.0
October	7.4	1.8	36.1	1.0	34.3	80.1	67.5	0.0	0.0
November	5.5	1.2	26.6	0.8	21.5	30.0	75.9	0.0	0.0
December	-4.0	0.0	0.0	0.8	0.0	72.9	148.8	0.0	0.0
Total	6.6	34.1			583.8	964.0		381.3	0.0
Net Water Surplus						381.3	mm		

Table D-9a: 2010 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm
January	-7.2	0.0	0.0	0.8	0.0	46.3	150.0	46.3	0.0
February	-5.9	0.0	0.0	0.8	0.0	41.1	150.0	41.1	0.0
March	3.0	0.5	11.1	1.0	11.4	30.5	150.0	19.1	0.0
April	9.6	2.7	42.1	1.1	47.2	27.3	130.1	0.0	0.0
May	14.9	5.2	69.7	1.3	88.6	102.4	143.9	0.0	0.0
June	17.6	6.7	84.4	1.3	108.1	169.9	150.0	55.8	0.0
July	21.8	9.2	107.9	1.3	140.3	97.8	107.5	0.0	0.0
August	21.1	8.8	103.9	1.2	124.7	63.2	46.0	0.0	0.0
September	15.7	5.6	74.1	1.0	77.0	118.9	87.9	0.0	0.0
October	9.3	2.6	40.6	1.0	38.6	64.1	113.4	0.0	0.0
November	3.1	0.5	11.5	0.8	9.3	48.1	150.0	2.1	0.0
December	-5.6	0.0	0.0	0.8	0.0	103.4	150.0	103.4	0.0
Total	8.1	41.7			645.2	913.0		267.8	0.0
Net Water Surplus						267.8	mm		

- Notes:
- calculations based on Thornthwaite Mather Method
 - °C calculated mean of daily temperatures for the month, in degrees Celcius
 - I denotes Heat Index
 - E denotes Evapotranspiration
 - WHC denotes Water Holding Capacity
 - A value of 150 mm was used for the water holding capacity of the soils
 - Temperature and precipitation data from the Shanty Bay Climatological Station located at 44°24'N 79°37.8'W/O, 250 masl

Table D-10a: 2011 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-9.0	0.0	0.0	0.8	0.0	107.6	150.0	107.6	0.0	
February	-6.5	0.0	0.0	0.8	0.0	61.8	150.0	61.8	0.0	
March	-2.5	0.0	0.0	1.0	0.0	84.5	150.0	84.5	0.0	
April	5.9	1.3	24.6	1.1	27.6	90.2	150.0	62.6	0.0	
May	13.6	4.5	63.4	1.3	80.5	70.7	140.2	0.0	0.0	
June	17.7	6.7	85.5	1.3	109.4	57.8	88.6	0.0	0.0	
July	22.5	9.7	112.2	1.3	145.8	92.7	35.4	0.0	0.0	
August	20.3	8.3	99.8	1.2	119.8	71.9	0.0	0.0	12.5	
September	16.5	6.1	78.9	1.0	82.1	74.5	0.0	0.0	7.6	
October	10.1	2.9	45.3	1.0	43.0	118.5	75.5	0.0	0.0	
November	5.8	1.3	24.2	0.8	19.6	96.3	150.0	2.2	0.0	
December	-0.7	0.0	0.0	0.8	0.0	62.9	150.0	62.9	0.0	
Total	7.8	40.8			627.8	989.4		381.6	20.1	
						Net Water Surplus	361.6	mm		

Table D-11a: 2012 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-3.9	0.0	0.0	0.8	0.0	66.9	150.0	66.9	0.0	
February	-2.4	0.0	0.0	0.8	0.0	81.1	150.0	81.1	0.0	
March	6.4	1.5	26.2	1.0	26.9	24.9	148.0	0.0	0.0	
April	5.9	1.3	23.9	1.1	26.7	46.8	150.0	18.1	0.0	
May	15.2	5.4	71.1	1.3	90.3	39.6	99.3	0.0	0.0	
June	19.4	7.7	94.2	1.3	120.6	78.4	57.1	0.0	0.0	
July	22.5	9.7	111.8	1.3	145.3	83.7	0.0	0.0	4.5	
August	20.3	8.3	99.3	1.2	119.1	95.0	0.0	0.0	24.1	
September	15.3	5.4	71.6	1.0	74.5	138.0	63.5	0.0	0.0	
October	9.5	2.6	41.3	1.0	39.3	127.5	150.0	1.7	0.0	
November	2.3	0.3	8.0	0.8	6.5	49.5	150.0	43.0	0.0	
December	-0.8	0.0	0.0	0.8	0.0	73.6	150.0	73.6	0.0	
Total	9.1	42.2			649.1	905.0		284.4	28.6	
						Net Water Surplus	255.9	mm		

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Shanty Bay Climatological Station located at 44°24'N 79°37.8'W/O, 250 masl

Table D-12a: 2013 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm
January	-4.9	0.0	0.0	0.8	0.0	107.0	150.0	107.0	0.0
February	-6.6	0.0	0.0	0.8	0.0	101.8	150.0	101.8	0.0
March	-1.3	0.0	0.0	1.0	0.0	33.1	150.0	33.1	0.0
April	5.1	1.0	22.8	1.1	25.5	113.1	150.0	87.6	0.0
May	13.8	4.6	66.7	1.3	84.7	109.2	150.0	24.5	0.0
June	17.8	6.8	87.8	1.3	112.4	29.8	67.4	0.0	0.0
July	21.2	8.9	106.1	1.3	137.9	110.9	40.3	0.0	0.0
August	19.2	7.6	95.3	1.2	114.4	103.3	29.3	0.0	0.0
September	15.0	5.3	73.0	1.0	75.9	79.1	32.4	0.0	0.0
October	10.2	2.9	48.1	1.0	45.7	120.3	107.0	0.0	0.0
November	0.8	0.1	3.1	0.8	2.5	63.1	150.0	17.6	0.0
December	-6.4	0.0	0.0	0.8	0.0	93.2	150.0	93.2	0.0
Total	7.0	37.2			599.2	1063.9		464.7	0.0
Net Water Surplus						464.7	mm		

Table D-13a: 2014 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm
January	-10.5	0.0	0.0	0.8	0.0	97.1	150.0	97.1	0.0
February	-9.5	0.0	0.0	0.8	0.0	72.1	150.0	72.1	0.0
March	-6.2	0.0	0.0	1.0	0.0	49.0	150.0	49.0	0.0
April	4.6	0.9	21.2	1.1	23.7	81.1	150.0	57.4	0.0
May	13.2	4.3	64.6	1.3	82.1	42.3	110.2	0.0	0.0
June	18.3	7.1	91.3	1.3	116.8	134.8	128.2	0.0	0.0
July	18.9	7.4	94.4	1.3	122.8	73.6	79.1	0.0	0.0
August	18.8	7.4	93.9	1.2	112.7	104.3	70.7	0.0	0.0
September	15.8	5.7	78.1	1.0	81.3	99.9	89.3	0.0	0.0
October	9.8	2.8	47.2	1.0	44.8	75.2	119.7	0.0	0.0
November	1.0	0.1	4.2	0.8	3.4	77.6	150.0	43.9	0.0
December	-1.8	0.0	0.0	0.8	0.0	74.5	150.0	74.5	0.0
Total	6.0	35.7			587.6	981.5		393.9	0.0
Net Water Surplus						393.9	mm		

- Notes:
- calculations based on Thornthwaite Mather Method
 - °C calculated mean of daily temperatures for the month, in degrees Celcius
 - I denotes Heat Index
 - E denotes Evapotranspiration
 - WHC denotes Water Holding Capacity
 - A value of 150 mm was used for the water holding capacity of the soils
 - Temperature and precipitation data from the Shanty Bay Climatological Station located at 44°24'N 79°37.8'W/O, 250 masl

Table D-14a: 2015 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-10.7	0.0	0.0	0.8	0.0	61.5	150.0	61.5	0.0	
February	-14.9	0.0	0.0	0.8	0.0	52.9	150.0	52.9	0.0	
March	-3.5	0.0	0.0	1.0	0.0	23.9	150.0	23.9	0.0	
April	6.2	1.4	25.9	1.1	29.0	61.1	150.0	32.1	0.0	
May	15.3	5.4	72.3	1.3	91.9	38.3	96.4	0.0	0.0	
June	17.2	6.5	82.6	1.3	105.8	153.5	144.2	0.0	0.0	
July	20.2	8.2	99.2	1.3	128.9	37.0	52.2	0.0	0.0	
August	19.5	7.8	95.3	1.2	114.3	106.4	44.3	0.0	0.0	
September	18.9	7.4	92.0	1.0	95.6	67.2	15.8	0.0	0.0	
October	9.0	2.4	39.6	1.0	37.6	84.0	62.2	0.0	0.0	
November	6.0	1.3	25.0	0.8	20.2	60.8	102.8	0.0	0.0	
December	3.1	0.5	11.8	0.8	9.2	39.7	133.3	0.0	0.0	
Total	7.2	41.0			632.6	786.3		170.4	0.0	
						Net Water Surplus	170.4	mm		

Table D-15a: 2016 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-5.7	0.0	0.0	0.8	0.0	116.0	150.0	116.0	0.0	
February	-5.0	0.0	0.0	0.8	0.0	50.0	150.0	50.0	0.0	
March	0.5	0.0	1.4	1.0	1.4	156.0	150.0	154.6	0.0	
April	3.8	0.7	14.4	1.1	16.1	65.0	150.0	48.9	0.0	
May	13.5	4.5	62.1	1.3	78.8	51.0	122.2	0.0	0.0	
June	18.0	6.9	86.4	1.3	110.7	39.0	50.5	0.0	0.0	
July	21.9	9.3	108.4	1.3	140.9	54.0	0.0	0.0	36.3	
August	22.4	9.6	111.2	1.2	133.5	118.0	0.0	0.0	15.5	
September	17.6	6.7	84.2	1.0	87.6	38.0	0.0	0.0	49.6	
October	10.8	3.2	48.0	1.0	45.6	79.0	33.4	0.0	0.0	
November	5.6	1.2	22.5	0.8	18.2	52.0	67.2	0.0	0.0	
December	-2.7	0.0	0.0	0.8	0.0	124.0	150.0	41.2	0.0	
Total	8.4	42.1			632.8	942.0		410.6	101.4	
						Net Water Surplus	309.2	mm		

- Notes:
- calculations based on Thornthwaite Mather Method
 - °C calculated mean of daily temperatures for the month, in degrees Celcius
 - I denotes Heat Index
 - E denotes Evapotranspiration
 - WHC denotes Water Holding Capacity
 - A value of 150 mm was used for the water holding capacity of the soils
 - Temperature and precipitation data from the Shanty Bay Climatological Station located at 44°24'N 79°37.8'W/O, 250 masl

Table D-16a: 2017 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-3.7	0.0	0.0	0.8	0.0	131.0	133.3	131.0	0.0	
February	-2.2	0.0	0.0	0.8	0.0	101.0	150.0	84.3	0.0	
March	-0.3	0.0	0.0	1.0	0.0	75.0	150.0	75.0	0.0	
April	8.0	2.0	36.4	1.1	40.7	122.0	150.0	81.3	0.0	
May	11.6	3.6	54.6	1.3	69.4	124.0	150.0	54.6	0.0	
June	17.4	6.6	85.2	1.3	109.0	120.0	150.0	11.0	0.0	
July	20.0	8.1	99.2	1.3	129.0	65.0	86.0	0.0	0.0	
August	18.8	7.4	92.7	1.2	111.2	74.0	48.8	0.0	0.0	
September	17.2	6.5	84.1	1.0	87.5	57.0	18.3	0.0	0.0	
October	12.2	3.8	57.7	1.0	54.8	77.0	40.5	0.0	0.0	
November	2.0	0.3	8.0	0.8	6.5	81.0	115.0	0.0	0.0	
December	-6.8	0.0	0.0	0.8	0.0	88.0	150.0	53.0	0.0	
Total	7.9	38.2			608.1	1115.0		490.2	0.0	
Net Water Surplus						490.2	mm			

Table D-17a: 2018 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-7.8	0.0	0.0	0.8	0.0	79.4	150.0	79.4	0.0	
February	-3.6	0.0	0.0	0.8	0.0	97.0	150.0	97.0	0.0	
March	-1.9	0.0	0.0	1.0	0.0	46.8	150.0	46.8	0.0	
April	1.5	0.2	5.4	1.1	6.0	132.8	150.0	126.8	0.0	
May	15.9	5.7	76.1	1.3	96.6	68.2	121.6	0.0	0.0	
June	18.1	7.0	88.0	1.3	112.6	43.8	52.7	0.0	0.0	
July	21.9	9.3	109.0	1.3	141.7	64.2	0.0	0.0	24.8	
August	21.7	9.2	107.9	1.2	129.4	107.0	0.0	0.0	22.4	
September	17.6	6.7	85.3	1.0	88.7	20.8	0.0	0.0	67.9	
October	8.0	2.0	35.2	1.0	33.4	130.1	96.7	0.0	0.0	
November	0.1	0.0	0.3	0.8	0.2	102.8	150.0	49.3	0.0	
December	-2.3	0.0	0.0	0.8	0.0	97.8	150.0	97.8	0.0	
Total	7.4	40.1			608.8	990.7		497.0	115.1	
Net Water Surplus						381.9	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Shanty Bay Climatological Station located at 44°24'N 79°37.8'W/O, 250 masl

Table D-18a: 2019 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-9.0	0.0	0.0	0.8	0.0	66.2	150.0	66.2	0.0	
February	-6.1	0.0	0.0	0.8	0.0	88.2	150.0	88.2	0.0	
March	-3.0	0.0	0.0	1.0	0.0	63.2	150.0	63.2	0.0	
April	4.8	0.9	22.1	1.1	24.8	100.0	150.0	75.2	0.0	
May	10.9	3.2	52.7	1.3	66.9	86.6	150.0	19.7	0.0	
June	16.5	6.1	81.7	1.3	104.6	75.0	120.4	0.0	0.0	
July	22.0	9.4	110.9	1.3	144.1	49.6	25.9	0.0	0.0	
August	19.3	7.7	96.5	1.2	115.8	54.0	0.0	0.0	36.0	
September	16.0	5.8	79.1	1.0	82.3	75.4	0.0	0.0	6.9	
October	9.6	2.7	46.1	1.0	43.8	137.0	93.2	0.0	0.0	
November	-0.5	0.0	0.0	0.8	0.0	46.0	139.2	0.0	0.0	
December	-2.8	0.0	0.0	0.8	0.0	107.6	150.0	96.8	0.0	
Total	6.5	35.8			582.3	948.8		409.3	42.8	
Net Water Surplus						366.5	mm			

Table D-19a: 2020 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-3.8	0.0	0.0	0.8	0.0	108.4	150.0	108.4	0.0	
February	-5.1	0.0	0.0	0.8	0.0	80.2	150.0	80.2	0.0	
March	1.5	0.2	5.6	1.0	5.8	48.0	150.0	42.2	0.0	
April	4.7	0.9	19.9	1.1	22.3	48.8	150.0	26.5	0.0	
May	11.4	3.5	53.1	1.3	67.4	109.4	150.0	42.0	0.0	
June	18.5	7.2	90.7	1.3	116.1	56.0	89.9	0.0	0.0	
July	23.0	10.0	115.4	1.3	150.0	50.8	0.0	0.0	9.3	
August	20.4	8.4	101.1	1.2	121.3	219.6	98.3	0.0	0.0	
September	15.4	5.5	74.0	1.0	77.0	66.4	87.7	0.0	0.0	
October	8.3	2.1	37.3	1.0	35.5	61.6	113.9	0.0	0.0	
November	5.9	1.3	25.6	0.8	20.7	69.0	150.0	12.1	0.0	
December	-2.0	0.0	0.0	0.8	0.0	106.6	150.0	106.6	0.0	
Total	8.2	39.0			616.0	1024.8		418.1	9.3	
Net Water Surplus						408.8	mm			

- Notes:
- calculations based on Thornthwaite Mather Method
 - °C calculated mean of daily temperatures for the month, in degrees Celcius
 - I denotes Heat Index
 - E denotes Evapotranspiration
 - WHC denotes Water Holding Capacity
 - A value of 150 mm was used for the water holding capacity of the soils
 - Temperature and precipitation data from the Shanty Bay Climatological Station located at 44°24'N 79°37.8'W/O, 250 masl

Table D-20a: 2021 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-4.8	0.0	0.0	0.8	0.0	49.8	150.0	49.8	0.0	
February	-7.0	0.0	0.0	0.8	0.0	40.6	150.0	40.6	0.0	
March	1.5	0.2	4.9	1.0	5.0	35.2	150.0	30.2	0.0	
April	7.1	1.7	30.0	1.1	33.6	62.8	150.0	29.2	0.0	
May	12.4	3.9	56.6	1.3	71.9	27.8	105.9	0.0	0.0	
June	20.1	8.2	98.5	1.3	126.0	108.6	88.5	0.0	0.0	
July	19.6	7.9	95.4	1.3	124.0	204.0	150.0	18.4	0.0	
August	21.9	9.3	108.3	1.2	129.9	21.2	41.3	0.0	0.0	
September	16.2	5.9	76.7	1.0	79.8	152.6	114.1	0.0	0.0	
October	13.1	4.3	60.0	1.0	57.0	66.0	123.1	0.0	0.0	
November	2.7	0.4	9.7	0.8	7.8	74.6	150.0	39.9	0.0	
December	-0.2	0.0	0.0	0.8	0.0	83.8	150.0	83.8	0.0	
Total	8.5	41.7			635.1	927.0		291.9	0.0	
						Net Water Surplus	291.9	mm		

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Shanty Bay Climatological Station located at 44°24'N 79°37.8'W/O, 250 masl

Table D-2b: 2003 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-8.0	0.0	0.0	0.8	0.0	66.6	150.0	66.6	0.0	
February	-8.6	0.0	0.0	0.8	0.0	71.6	150.0	71.6	0.0	
March	-1.7	0.0	0.0	1.0	0.0	76.5	150.0	76.5	0.0	
April	4.0	0.7	17.7	1.1	19.8	133.5	150.0	113.7	0.0	
May	10.5	3.1	49.9	1.3	63.4	67.6	150.0	4.2	0.0	
June	16.7	6.2	82.2	1.3	105.2	84.8	129.6	0.0	0.0	
July	20.5	8.4	102.5	1.3	133.2	43.0	39.4	0.0	0.0	
August	20.8	8.6	104.1	1.2	124.9	43.0	0.0	0.0	42.5	
September	16.8	6.2	82.7	1.0	86.1	66.4	0.0	0.0	19.7	
October	9.3	2.6	43.8	1.0	41.7	100.8	59.1	0.0	0.0	
November	5.1	1.0	23.0	0.8	18.6	198.8	150.0	89.3	0.0	
December	-0.8	0.0	0.0	0.8	0.0	45.0	150.0	45.0	0.0	
Total	7.1	36.8			593.0	997.6		466.8	62.2	
Net Water Surplus						404.6	mm			

Table D-3b: 2004 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-9.9	0.0	0.0	0.8	0.0	91.1	150.0	91.1	0.0	
February	-4.5	0.0	0.0	0.8	0.0	12.6	150.0	12.6	0.0	
March	1.1	0.1	4.3	1.0	4.4	77.6	150.0	73.2	0.0	
April	5.6	1.2	25.0	1.1	28.1	49.4	150.0	21.3	0.0	
May	11.6	3.6	55.1	1.3	70.0	150.2	150.0	80.2	0.0	
June	16.7	6.2	81.8	1.3	104.8	32.6	77.8	0.0	0.0	
July	19.6	7.9	97.4	1.3	126.6	28.6	0.0	0.0	20.1	
August	19.0	7.5	94.1	1.2	113.0	38.4	0.0	0.0	74.6	
September	18.0	6.9	88.8	1.0	92.3	19.6	0.0	0.0	72.7	
October	10.8	3.2	51.0	1.0	48.5	47.2	0.0	0.0	1.3	
November	4.8	0.9	21.2	0.8	17.2	67.9	50.7	0.0	0.0	
December	-3.4	0.0	0.0	0.8	0.0	71.4	122.1	0.0	0.0	
Total	7.5	37.5			604.7	686.6		278.4	168.7	
Net Water Surplus						109.7	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Collingwood Climatological Station located at 44°30'N 80°13'W/O, 179.8 masl

Table D-4b: 2005 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-7.2	0.0	0.0	0.8	0.0	48.8	150.0	48.8	0.0	
February	-4.4	0.0	0.0	0.8	0.0	18.6	150.0	18.6	0.0	
March	-2.9	0.0	0.0	1.0	0.0	30.4	150.0	30.4	0.0	
April	6.1	1.4	24.1	1.1	27.0	80.3	150.0	53.3	0.0	
May	10.5	3.1	45.6	1.3	57.9	18.4	110.5	0.0	0.0	
June	20.8	8.6	101.6	1.3	130.1	74.2	54.6	0.0	0.0	
July	22.2	9.5	109.7	1.3	142.6	48.6	0.0	0.0	39.3	
August	21.3	8.9	104.5	1.2	125.4	45.4	0.0	0.0	80.0	
September	18.9	7.4	90.8	1.0	94.5	39.6	0.0	0.0	54.9	
October	11.7	3.6	51.7	1.0	49.2	11.4	0.0	0.0	37.8	
November	4.9	1.0	18.6	0.8	15.1	72.3	57.2	0.0	0.0	
December	-3.2	0.0	0.0	0.8	0.0	65.9	123.1	0.0	0.0	
Total	8.2	43.5			641.6	553.9		151.1	211.9	
Net Water Surplus						-60.8	mm			

Table D-5b: 2006 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-0.5	0.0	0.0	0.8	0.0	57.3	150.0	57.3	0.0	
February	-4.5	0.0	0.0	0.8	0.0	68.3	150.0	68.3	0.0	
March	0.1	0.0	0.3	1.0	0.3	46.0	150.0	45.7	0.0	
April	7.2	1.7	31.4	1.1	35.2	53.8	150.0	18.6	0.0	
May	13.3	4.4	62.4	1.3	79.3	64.8	135.5	0.0	0.0	
June	18.0	6.9	87.6	1.3	112.1	61.5	85.0	0.0	0.0	
July	22.5	9.7	112.4	1.3	146.1	59.3	0.0	0.0	1.9	
August	20.0	8.1	98.5	1.2	118.2	30.4	0.0	0.0	87.8	
September	15.0	5.3	71.4	1.0	74.3	70.2	0.0	0.0	4.1	
October	8.7	2.3	38.8	1.0	36.9	111.1	74.2	0.0	0.0	
November	5.8	1.3	24.6	0.8	20.0	71.5	125.8	0.0	0.0	
December	1.8	0.2	6.7	0.8	5.2	59.5	150.0	30.1	0.0	
Total	9.0	39.9			627.4	753.7		220.0	93.7	
Net Water Surplus						126.3	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Collingwood Climatological Station located at 44°30'N 80°13'W/O, 179.8 masl

Table D-6b: 2007 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-3.6	0.0	0.0	0.8	0.0	45.1	150.0	45.1	0.0	
February	-8.1	0.0	0.0	0.8	0.0	15.8	150.0	15.8	0.0	
March	-0.1	0.0	0.0	1.0	0.0	35.7	150.0	35.7	0.0	
April	4.6	0.9	18.8	1.1	21.1	51.9	150.0	30.8	0.0	
May	12.6	4.0	58.5	1.3	74.3	45.7	121.4	0.0	0.0	
June	18.5	7.2	90.1	1.3	115.3	42.3	48.4	0.0	0.0	
July	19.7	7.9	96.7	1.3	125.7	84.7	7.3	0.0	0.0	
August	20.3	8.3	100.0	1.2	120.0	45.5	0.0	0.0	67.2	
September	17.7	6.7	85.7	1.0	89.2	73.5	0.0	0.0	15.7	
October	14.1	4.8	66.4	1.0	63.1	58.0	0.0	0.0	5.1	
November	2.5	0.4	9.5	0.8	7.7	74.4	66.7	0.0	0.0	
December	-3.1	0.0	0.0	0.8	0.0	59.2	125.9	0.0	0.0	
Total	7.9	40.2			616.4	631.8		127.4	87.9	
Net Water Surplus						39.5	mm			

Table D-7b: 2008 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-2.1	0.0	0.0	0.8	0.0	61.0	150.0	61.0	0.0	
February	-5.7	0.0	0.0	0.8	0.0	66.9	150.0	66.9	0.0	
March	-2.3	0.0	0.0	1.0	0.0	58.8	150.0	58.8	0.0	
April	8.7	2.3	40.4	1.1	45.2	41.7	146.5	0.0	0.0	
May	10.3	3.0	48.5	1.3	61.6	84.5	150.0	19.4	0.0	
June	18.5	7.2	91.5	1.3	117.1	88.4	121.3	0.0	0.0	
July	20.5	8.4	102.2	1.3	132.9	114.2	102.6	0.0	0.0	
August	19.0	7.5	94.1	1.2	113.0	87.2	76.9	0.0	0.0	
September	16.3	6.0	79.7	1.0	82.9	37.6	31.5	0.0	0.0	
October	9.3	2.6	43.4	1.0	41.2	1.9	0.0	0.0	7.8	
November	3.2	0.5	13.7	0.8	11.1	128.2	117.1	0.0	0.0	
December	-3.6	0.0	0.0	0.8	0.0	84.0	150.0	51.1	0.0	
Total	7.7	37.4			605.0	854.4		257.2	7.8	
Net Water Surplus						249.4	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Collingwood Climatological Station located at 44°30'N 80°13'W/O, 179.8 masl

Table D-8b: 2009 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-8.3	0.0	0.0	0.8	0.0	38.6	150.0	38.6	0.0	
February	-4.2	0.0	0.0	0.8	0.0	24.8	150.0	24.8	0.0	
March	0.1	0.0	0.4	1.0	0.4	39.6	150.0	39.2	0.0	
April	6.3	1.4	30.6	1.1	34.2	75.6	150.0	41.4	0.0	
May	10.5	3.1	51.8	1.3	65.8	51.6	135.8	0.0	0.0	
June	15.3	5.4	76.5	1.3	97.9	104.6	142.4	0.0	0.0	
July	18.2	7.0	91.5	1.3	119.0	48.4	71.8	0.0	0.0	
August	19.6	7.9	98.8	1.2	118.6	73.8	27.0	0.0	0.0	
September	15.8	5.7	79.1	1.0	82.3	49.2	0.0	0.0	6.0	
October	8.4	2.2	41.2	1.0	39.1	107.4	68.3	0.0	0.0	
November	6.3	1.4	30.6	0.8	24.8	24.8	68.3	0.0	0.0	
December	-2.6	0.0	0.0	0.8	0.0	46.7	115.0	0.0	0.0	
Total	7.1	34.1			582.1	685.1		143.9	6.0	
Net Water Surplus						137.9	mm			

Table D-9b: 2010 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-5.4	0.0	0.0	0.8	0.0	11.9	150.0	11.9	0.0	
February	-4.3	0.0	0.0	0.8	0.0	16.8	150.0	16.8	0.0	
March	2.4	0.3	8.4	1.0	8.6	14.6	150.0	6.0	0.0	
April	9.3	2.6	40.2	1.1	45.1	25.4	130.3	0.0	0.0	
May	14.2	4.8	65.6	1.3	83.4	82.4	129.4	0.0	0.0	
June	17.0	6.3	80.8	1.3	103.4	152.3	150.0	28.2	0.0	
July	22.1	9.4	109.4	1.3	142.3	82.4	90.1	0.0	0.0	
August	22.0	9.4	108.9	1.2	130.6	33.2	0.0	0.0	7.3	
September	15.8	5.7	74.3	1.0	77.2	153.8	76.6	0.0	0.0	
October	10.3	3.0	45.3	1.0	43.0	69.1	102.6	0.0	0.0	
November	4.3	0.8	16.5	0.8	13.4	65.1	150.0	4.4	0.0	
December	-3.6	0.0	0.0	0.8	0.0	73.0	150.0	73.0	0.0	
Total	8.7	42.3			647.0	780.0		140.3	7.3	
Net Water Surplus						133.0	mm			

- Notes:
- calculations based on Thornthwaite Mather Method
 - °C calculated mean of daily temperatures for the month, in degrees Celcius
 - I denotes Heat Index
 - E denotes Evapotranspiration
 - WHC denotes Water Holding Capacity
 - A value of 150 mm was used for the water holding capacity of the soils
 - Temperature and precipitation data from the Collingwood Climatological Station located at 44°30'N 80°13'W/O, 179.8 masl

Table D-10b: 2011 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-7.1	0.0	0.0	0.8	0.0	26.5	150.0	26.5	0.0	
February	-5.1	0.0	0.0	0.8	0.0	18.3	150.0	18.3	0.0	
March	-1.7	0.0	0.0	1.0	0.0	71.9	150.0	71.9	0.0	
April	5.6	1.2	23.4	1.1	26.2	77.8	150.0	51.6	0.0	
May	12.8	4.1	59.4	1.3	75.5	118.8	150.0	43.3	0.0	
June	16.7	6.2	80.2	1.3	102.7	44.0	91.3	0.0	0.0	
July	22.5	9.7	112.2	1.3	145.9	71.7	17.1	0.0	0.0	
August	20.8	8.6	102.7	1.2	123.3	64.5	0.0	0.0	41.6	
September	16.2	5.9	77.5	1.0	80.6	67.9	0.0	0.0	12.7	
October	10.7	3.2	48.5	1.0	46.1	123.9	77.8	0.0	0.0	
November	6.8	1.6	29.1	0.8	23.6	79.9	134.1	0.0	0.0	
December	0.1	0.0	0.2	0.8	0.2	56.7	150.0	40.6	0.0	
Total	8.2	40.4			624.0	821.9		252.3	54.3	
Net Water Surplus						197.9	mm			

Table D-11b: 2012 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-2.4	0.0	0.0	0.8	0.0	49.1	150.0	49.1	0.0	
February	-1.0	0.0	0.0	0.8	0.0	29.9	150.0	29.9	0.0	
March	6.4	1.5	26.2	1.0	26.9	32.4	150.0	5.5	0.0	
April	5.4	1.1	21.5	1.1	24.1	30.6	150.0	6.5	0.0	
May	14.5	5.0	67.3	1.3	85.5	43.3	107.8	0.0	0.0	
June	19.2	7.6	93.1	1.3	119.2	61.1	49.7	0.0	0.0	
July	22.1	9.4	109.5	1.3	142.3	27.6	0.0	0.0	65.0	
August	20.7	8.5	101.5	1.2	121.8	96.4	0.0	0.0	25.4	
September	15.8	5.7	74.3	1.0	77.3	133.1	55.8	0.0	0.0	
October	9.9	2.8	43.4	1.0	41.2	111.8	126.4	0.0	0.0	
November	3.1	0.5	11.4	0.8	9.2	27.5	144.7	0.0	0.0	
December	0.5	0.0	1.4	0.8	1.1	53.7	150.0	47.3	0.0	
Total	9.5	42.2			648.6	696.5		138.3	90.4	
Net Water Surplus						47.9	mm			

- Notes:
- calculations based on Thornthwaite Mather Method
 - °C calculated mean of daily temperatures for the month, in degrees Celcius
 - I denotes Heat Index
 - E denotes Evapotranspiration
 - WHC denotes Water Holding Capacity
 - A value of 150 mm was used for the water holding capacity of the soils
 - Temperature and precipitation data from the Collingwood Climatological Station located at 44°30'N 80°13'W/O, 179.8 masl

Table D-12b: 2013 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-2.6	0.0	0.0	0.8	0.0	71.1	150.0	71.1	0.0	
February	-5.1	0.0	0.0	0.8	0.0	56.8	150.0	56.8	0.0	
March	-0.8	0.0	0.0	1.0	0.0	19.0	150.0	19.0	0.0	
April	5.7	1.2	25.5	1.1	28.5	129.4	150.0	100.9	0.0	
May	13.2	4.3	63.4	1.3	80.5	81.7	150.0	1.2	0.0	
June	16.9	6.3	82.9	1.3	106.1	53.0	96.9	0.0	0.0	
July	21.0	8.7	104.9	1.3	136.3	68.5	29.1	0.0	0.0	
August	19.6	7.9	97.3	1.2	116.8	63.0	0.0	0.0	24.7	
September	15.4	5.5	74.9	1.0	77.9	83.4	5.5	0.0	0.0	
October	11.2	3.4	53.0	1.0	50.4	126.8	81.9	0.0	0.0	
November	2.1	0.3	8.6	0.8	7.0	76.8	150.0	1.7	0.0	
December	-5.2	0.0	0.0	0.8	0.0	76.8	150.0	76.8	0.0	
Total	7.6	37.6			603.5	906.3		327.5	24.7	
Net Water Surplus						302.8	mm			

Table D-13b: 2014 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-8.7	0.0	0.0	0.8	0.0	44.7	150.0	44.7	0.0	
February	-8.4	0.0	0.0	0.8	0.0	30.8	150.0	30.8	0.0	
March	-5.6	0.0	0.0	1.0	0.0	40.8	150.0	40.8	0.0	
April	5.0	1.0	23.5	1.1	26.4	58.1	150.0	31.7	0.0	
May	12.1	3.8	59.4	1.3	75.4	11.7	86.3	0.0	0.0	
June	17.5	6.6	87.4	1.3	111.9	41.4	15.8	0.0	0.0	
July	18.7	7.3	93.7	1.3	121.8	70.1	0.0	0.0	35.9	
August	18.7	7.3	93.7	1.2	112.4	61.1	0.0	0.0	51.3	
September	15.8	5.7	78.5	1.0	81.7	97.3	15.6	0.0	0.0	
October	10.3	3.0	50.2	1.0	47.7	70.9	38.9	0.0	0.0	
November	2.1	0.3	9.5	0.8	7.7	60.6	91.8	0.0	0.0	
December	-0.5	0.0	0.0	0.8	0.0	64.6	150.0	6.4	0.0	
Total	6.4	35.0			584.9	652.1		154.4	87.2	
Net Water Surplus						67.2	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Collingwood Climatological Station located at 44°30'N 80°13'W/O, 179.8 masl

Table D-14b: 2015 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-8.6	0.0	0.0	0.8	0.0	22.0	150.0	22.0	0.0	
February	-12.7	0.0	0.0	0.8	0.0	19.2	150.0	19.2	0.0	
March	-2.9	0.0	0.0	1.0	0.0	7.6	150.0	7.6	0.0	
April	5.8	1.3	24.4	1.1	27.3	36.2	150.0	8.9	0.0	
May	13.5	4.5	63.2	1.3	80.2	36.6	106.4	0.0	0.0	
June	15.9	5.7	76.0	1.3	97.2	110.9	120.0	0.0	0.0	
July	20.0	8.1	98.3	1.3	127.8	15.8	8.0	0.0	0.0	
August	19.7	7.9	96.7	1.2	116.0	38.4	0.0	0.0	69.6	
September	19.4	7.7	95.0	1.0	98.8	32.2	0.0	0.0	66.6	
October	9.8	2.8	44.0	1.0	41.8	72.8	31.0	0.0	0.0	
November	6.9	1.6	29.7	0.8	24.0	53.8	60.7	0.0	0.0	
December	3.8	0.7	15.2	0.8	11.8	73.5	122.4	0.0	0.0	
Total	7.6	40.3			625.2	519.0		57.7	136.2	
Net Water Surplus						-78.6	mm			

Table D-15b: 2016 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-3.4	0.0	0.0	0.8	0.0	44.7	150.0	44.7	0.0	
February	-3.5	0.0	0.0	0.8	0.0	69.9	150.0	69.9	0.0	
March	1.3	0.1	4.1	1.0	4.2	158.6	150.0	154.4	0.0	
April	3.7	0.6	13.8	1.1	15.5	33.2	150.0	17.7	0.0	
May	12.0	3.8	53.9	1.3	68.5	39.3	120.8	0.0	0.0	
June	17.2	6.5	81.8	1.3	104.8	48.6	64.6	0.0	0.0	
July	21.8	9.2	107.7	1.3	140.0	21.0	0.0	0.0	54.4	
August	22.5	9.7	111.7	1.2	134.0	15.1	0.0	0.0	118.9	
September	17.9	6.9	85.7	1.0	89.1	120.2	31.1	0.0	0.0	
October	11.8	3.7	52.9	1.0	50.3	65.0	45.8	0.0	0.0	
November	8.0	2.0	33.7	0.8	27.3	40.9	59.4	0.0	0.0	
December	-1.2	0.0	0.0	0.8	0.0	78.0	137.4	0.0	0.0	
Total	9.0	42.5			633.7	734.5		286.7	173.3	
Net Water Surplus						113.4	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Collingwood Climatological Station located at 44°30'N 80°13'W/O, 179.8 masl

Table D-16b: 2017 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-1.8	0.0	0.0	0.8	0.0	90.4	133.3	90.4	0.0	
February	-0.3	0.0	0.0	0.8	0.0	53.2	150.0	36.5	0.0	
March	-1.8	0.0	0.0	1.0	0.0	49.6	150.0	49.6	0.0	
April	8.1	2.1	36.5	1.1	40.9	130.6	150.0	89.7	0.0	
May	11.2	3.4	52.2	1.3	66.3	100.4	150.0	34.1	0.0	
June	17.4	6.6	84.8	1.3	108.6	139.6	150.0	31.0	0.0	
July	19.9	8.1	98.4	1.3	127.9	71.6	93.7	0.0	0.0	
August	18.8	7.4	92.4	1.2	110.9	61.2	44.0	0.0	0.0	
September	17.4	6.6	84.8	1.0	88.2	63.0	18.7	0.0	0.0	
October	13.1	4.3	62.0	1.0	58.9	71.1	30.9	0.0	0.0	
November	3.2	0.5	13.1	0.8	10.6	70.8	91.1	0.0	0.0	
December	-5.1	0.0	0.0	0.8	0.0	51.1	142.2	0.0	0.0	
Total	8.3	38.8			612.3	952.6		331.4	0.0	
						Net Water Surplus	331.4	mm		

Table D-17b: 2018 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-5.2	0.0	0.0	0.8	0.0	32.8	150.0	32.8	0.0	
February	-1.8	0.0	0.0	0.8	0.0	57.4	150.0	57.4	0.0	
March	-1.3	0.0	0.0	1.0	0.0	25.2	150.0	25.2	0.0	
April	2.3	0.3	9.1	1.1	10.2	155.0	150.0	144.8	0.0	
May	14.4	4.9	68.9	1.3	87.5	57.4	119.9	0.0	0.0	
June	16.8	6.2	81.6	1.3	104.5	41.5	57.0	0.0	0.0	
July	21.4	9.0	106.6	1.3	138.6	102.3	20.6	0.0	0.0	
August	21.8	9.2	108.8	1.2	130.6	60.2	0.0	0.0	49.8	
September	17.3	6.5	84.3	1.0	87.7	38.7	0.0	0.0	49.0	
October	9.1	2.5	41.5	1.0	39.4	119.5	80.1	0.0	0.0	
November	1.2	0.1	4.4	0.8	3.6	117.5	150.0	44.0	0.0	
December	-1.0	0.0	0.0	0.8	0.0	83.6	150.0	83.6	0.0	
Total	7.9	38.8			602.1	891.1		387.8	98.8	
						Net Water Surplus	289.0	mm		

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Collingwood Climatological Station located at 44°30'N 80°13'W/O, 179.8 masl

Table D-18b: 2019 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-7.1	0.0	0.0	0.8	0.0	49.2	150.0	49.2	0.0	
February	-4.7	0.0	0.0	0.8	0.0	50.9	150.0	50.9	0.0	
March	-1.5	0.0	0.0	1.0	0.0	49.1	150.0	49.1	0.0	
April	5.0	1.0	23.5	1.1	26.4	114.0	150.0	87.6	0.0	
May	10.4	3.0	50.7	1.3	64.4	87.4	150.0	23.0	0.0	
June	15.4	5.5	76.5	1.3	97.9	51.4	103.5	0.0	0.0	
July *	21.0	8.7	105.8	1.3	137.6		0.0	0.0	34.0	
August *	19.6	7.9	98.4	1.2	118.1		0.0	0.0	118.1	
September *	16.4	6.0	81.7	1.0	84.9		0.0	0.0	84.9	
October *	10.0	2.8	48.7	1.0	46.2		0.0	0.0	46.2	
November *	0.6	0.0	2.6	0.8	2.1		0.0	0.0	2.1	
December *	-0.8	0.0	0.0	0.8	0.0		0.0	0.0	0.0	
Total	7.0	35.0			577.5	402.0		259.9	285.4	
Net Water Surplus						-25.5	mm			

Table D-19b: 2020 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January *	-1.8	0.0	0.0	0.8	0.0		150.0	0.0	0.0	
February *	-3.4	0.0	0.0	0.8	0.0		150.0	0.0	0.0	
March *	2.3	0.3	8.9	1.0	9.1		140.9	0.0	0.0	
April *	4.7	0.9	19.7	1.1	22.1		118.8	0.0	0.0	
May	10.4	3.0	47.7	1.3	60.6	39.4	97.7	0.0	0.0	
June	17.6	6.7	85.6	1.3	109.6	104.4	92.5	0.0	0.0	
July *	22.5	9.7	112.5	1.3	146.3	75.2	21.4	0.0	0.0	
August *	20.7	8.5	102.6	1.2	123.1	140.6	38.9	0.0	0.0	
September *	16.0	5.8	77.0	1.0	80.1	60.9	19.7	0.0	0.0	
October *	9.0	2.4	40.6	1.0	38.6	88.3	69.5	0.0	0.0	
November *	8.0	2.0	35.6	0.8	28.8	77.6	118.2	0.0	0.0	
December *	-0.5	0.0	0.0	0.8	0.0	79.0	150.0	47.2	0.0	
Total	8.8	39.4			618.2	665.4		47.2	0.0	
Net Water Surplus						47.2	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the Collingwood Climatological Station located at 44°30'N 80°13'W/O, 179.8 masl
- Precipitation data from July 2019 to April 2020 not available

Table D-20b: 2021 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-2.5	0.0	0.0	0.8	0.0	43.5	150.0	43.5	0.0	
February	-4.8	0.0	0.0	0.8	0.0	33.9	150.0	33.9	0.0	
March	3.1	0.5	11.0	1.0	11.3	39.6	150.0	28.3	0.0	
April	7.5	1.8	31.0	1.1	34.7	52.9	150.0	18.2	0.0	
May	11.9	3.7	53.1	1.3	67.4	25.4	108.0	0.0	0.0	
June	20.0	8.1	97.2	1.3	124.4	67.3	50.9	0.0	0.0	
July	19.4	7.7	93.8	1.3	122.0	109.0	37.9	0.0	0.0	
August	21.8	9.2	107.5	1.2	129.0	14.3	0.0	0.0	76.8	
September	16.9	6.3	79.9	1.0	83.1	204.6	121.5	0.0	0.0	
October	14.0	4.7	64.1	1.0	60.9	76.4	137.0	0.0	0.0	
November	4.3	0.8	16.2	0.8	13.1	81.5	150.0	55.4	0.0	
December	1.0	0.1	3.0	0.8	2.3	73.0	150.0	70.7	0.0	
Total	9.4	43.0			648.2	821.4		250.0	76.8	
Net Water Surplus						173.2	mm			

- Notes:
- calculations based on Thornthwaite Mather Method
 - °C calculated mean of daily temperatures for the month, in degrees Celcius
 - I denotes Heat Index
 - E denotes Evapotranspiration
 - WHC denotes Water Holding Capacity
 - A value of 150 mm was used for the water holding capacity of the soils
 - Temperature and precipitation data from the Collingwood Climatological Station located at 44°30'N 80°13'W/O, 179.8 masl

Table D-15c: 2016 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-5.7	0.0	0.0	0.8	0.0	62.0	150.0	62.0	0.0	
February	-6.2	0.0	0.0	0.8	0.0	67.0	150.0	67.0	0.0	
March	-0.6	0.0	0.0	1.0	0.0	170.0	150.0	170.0	0.0	
April	4.5	0.9	20.3	1.1	22.7	24.0	150.0	1.3	0.0	
May	12.2	3.8	58.9	1.3	74.8	40.0	115.2	0.0	0.0	
June	16.5	6.1	81.4	1.3	104.1	42.0	53.0	0.0	0.0	
July	19.9	8.1	99.4	1.3	129.2	28.0	0.0	0.0	48.2	
August	20.7	8.5	103.7	1.2	124.4	28.0	0.0	0.0	96.4	
September	16.1	5.8	79.2	1.0	82.4	8.0	0.0	0.0	74.4	
October	9.0	2.4	42.6	1.0	40.4	7.0	0.0	0.0	33.4	
November	4.4	0.8	19.8	0.8	16.0	54.0	38.0	0.0	0.0	
December	-4.9	0.0	0.0	0.8	0.0	25.0	63.0	0.0	0.0	
Total	7.2	36.5			594.2	555.0		300.3	252.4	
Net Water Surplus						47.9	mm			

Table D-16c: 2017 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-5.0	0.0	0.0	0.8	0.0	86.0	63.0	86.0	0.0	
February	-3.3	0.0	0.0	0.8	0.0	44.0	107.0	0.0	0.0	
March	-3.4	0.0	0.0	1.0	0.0	55.0	150.0	12.0	0.0	
April	6.1	1.4	31.0	1.1	34.7	134.0	150.0	99.3	0.0	
May	9.9	2.8	50.4	1.3	64.0	132.0	150.0	68.0	0.0	
June	16.0	5.8	81.4	1.3	104.2	131.0	150.0	26.8	0.0	
July	18.2	7.0	92.7	1.3	120.5	58.0	87.5	0.0	0.0	
August	16.7	6.2	85.0	1.2	102.0	66.0	51.5	0.0	0.0	
September	15.8	5.7	80.4	1.0	83.6	88.0	55.9	0.0	0.0	
October	10.5	3.1	53.4	1.0	50.7	90.0	95.1	0.0	0.0	
November	0.0	0.0	0.1	0.8	0.0	89.0	150.0	34.1	0.0	
December	-7.9	0.0	0.0	0.8	0.0	46.0	150.0	46.0	0.0	
Total	6.1	31.9			559.8	1019.0		372.2	0.0	
Net Water Surplus						372.2	mm			

- Notes:
- calculations based on Thornthwaite Mather Method
 - °C calculated mean of daily temperatures for the month, in degrees Celcius
 - I denotes Heat Index
 - E denotes Evapotranspiration
 - WHC denotes Water Holding Capacity
 - A value of 150 mm was used for the water holding capacity of the soils
 - Temperature and precipitation data from the WAI station located at the old quarry, elevation approx. 520 masl

Table D-17c: 2018 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-8.4	0.0	0.0	0.8	0.0	59.5	150.0	59.5	0.0	
February	-5.1	0.0	0.0	0.8	0.0	62.8	150.0	62.8	0.0	
March	-4.3	0.0	0.0	1.0	0.0	22.5	150.0	22.5	0.0	
April	-0.5	0.0	0.0	1.1	0.0	103.7	150.0	103.7	0.0	
May	14.9	5.2	74.2	1.3	94.2	76.2	132.0	0.0	0.0	
June	16.7	6.2	83.5	1.3	106.9	43.6	68.7	0.0	0.0	
July	20.3	8.3	102.3	1.3	133.0	44.9	0.0	0.0	19.4	
August	19.9	8.1	100.2	1.2	120.3	84.2	0.0	0.0	36.1	
September	15.5	5.5	77.3	1.0	80.4	22.4	0.0	0.0	58.0	
October	5.9	1.3	28.3	1.0	26.9	104.6	77.7	0.0	0.0	
November	-2.0	0.0	0.0	0.8	0.0	66.4	144.1	0.0	0.0	
December	-3.5	0.0	0.0	0.8	0.0	65.4	150.0	59.5	0.0	
Total	5.8	34.5			561.6	756.2		308.0	113.4	
Net Water Surplus						194.6	mm			

Table D-18c: 2019 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-10.4	0.0	0.0	0.8	0.0	38.4	150.0	38.4	0.0	
February	-8.3	0.0	0.0	0.8	0.0	16.0	150.0	16.0	0.0	
March	-5.6	0.0	0.0	1.0	0.0	33.0	150.0	33.0	0.0	
April	2.7	0.4	14.3	1.1	16.0	127.9	150.0	111.9	0.0	
May	9.4	2.6	48.7	1.3	61.9	96.1	150.0	34.2	0.0	
June	15.5	5.5	79.7	1.3	102.0	53.9	101.9	0.0	0.0	
July	20.4	8.4	104.4	1.3	135.7	24.0	0.0	0.0	9.8	
August	17.8	6.8	91.3	1.2	109.5	17.2	0.0	0.0	92.3	
September	14.6	5.0	75.1	1.0	78.1	73.7	0.0	0.0	4.4	
October	7.8	2.0	40.6	1.0	38.5	89.1	50.6	0.0	0.0	
November	-2.4	0.0	0.0	0.8	0.0	62.8	113.4	0.0	0.0	
December	-3.9	0.0	0.0	0.8	0.0	28.1	141.5	0.0	0.0	
Total	4.8	30.7			541.8	660.2		233.5	106.6	
Net Water Surplus						127.0	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the WAI station located at the old quarry, elevation approx. 520 masl

Table D-19c: 2020 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-4.8	0.0	0.0	0.8	0.0	50.7	150.0	50.7	0.0	
February	-6.6	0.0	0.0	0.8	0.0	34.1	150.0	34.1	0.0	
March	-0.4	0.0	0.0	1.0	0.0	82.2	150.0	82.2	0.0	
April	2.6	0.4	15.5	1.1	17.3	36.1	150.0	18.8	0.0	
May	9.7	2.7	53.0	1.3	67.3	78.5	150.0	11.2	0.0	
June	17.7	6.7	92.7	1.3	118.7	84.9	116.2	0.0	0.0	
July	21.1	8.8	109.0	1.3	141.8	99.9	74.4	0.0	0.0	
August *	18.7	7.3	97.5	1.2	117.0	47.7	5.1	0.0	0.0	
September *	0.0	0.0	0.1	1.0	0.1	0.0	5.0	0.0	0.0	
October *	5.4	1.1	30.6	1.0	29.1	61.3	37.2	0.0	0.0	
November *	1.3	0.1	8.3	0.8	6.7	7.2	37.7	0.0	0.0	
December *	-3.5	0.0	0.0	0.8	0.0	6.7	44.4	0.0	0.0	
Total	5.1	27.2			498.0	589.3		197.0	0.0	
Net Water Surplus						197.0	mm			

Table D-20c: 2021 Water Budget

Month	Mean Temperature °C	I	E mm	Daylight Factor	E Adj. mm	Total Precipitation mm	WHC mm	Surplus mm	Deficit mm	
January	-5.7	0.0	0.0	0.8	0.0	2.0	150.0	2.0	0.0	
February	-8.4	0.0	0.0	0.8	0.0	20.7	150.0	20.7	0.0	
March	0.1	0.0	0.7	1.0	0.8	41.1	150.0	40.3	0.0	
April	5.4	1.1	27.5	1.1	30.7	51.7	150.0	21.0	0.0	
May	11.3	3.4	57.6	1.3	73.2	30.8	107.6	0.0	0.0	
June	19.4	7.7	98.7	1.3	126.4	78.3	59.5	0.0	0.0	
July	14.2	4.9	72.4	1.3	94.1	134.9	100.3	0.0	0.0	
August	18.2	7.0	92.4	1.2	110.9	60.5	49.9	0.0	0.0	
September	14.2	4.8	72.1	1.0	75.0	192.4	150.0	17.3	0.0	
October	10.3	3.0	52.3	1.0	49.7	82.1	150.0	32.4	0.0	
November	-1.8	0.0	0.0	0.8	0.0	47.9	150.0	47.9	0.0	
December	-1.8	0.0	0.0	0.8	0.0	65.9	150.0	65.9	0.0	
Total	6.3	32.0			560.8	808.3		247.5	0.0	
Net Water Surplus						247.5	mm			

Notes: • calculations based on Thornthwaite Mather Method

- °C calculated mean of daily temperatures for the month, in degrees Celcius
- I denotes Heat Index
- E denotes Evapotranspiration
- WHC denotes Water Holding Capacity
- A value of 150 mm was used for the water holding capacity of the soils
- Temperature and precipitation data from the WAI station located at the old quarry, elevation approx. 520 masl
- * 2020 data not available from Aug 21 to Oct 8 and Nov 4 to Dec 17

