



**SAPEC**  
**AGRO PORTUGAL**

**SAPEC Agro**

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**Evaluate the efficacy of MICROSOIL in sweet potato**

**Official Trial ID: 30/002/14**

**THURSDAY, 11 JUNE 2015**

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## 1 TRIAL CHARACTERISTICS

### 1.1 GENERAL TRIAL INFORMATION

**Discipline:** O other  
**Trial Status:** F one-year/final  
**Initiation Date:** 20-6-2014  
**Completion Date:** 15-10-2014

### 1.2 TREATMENT INFORMATION

Trt No.	Treatment Name	Rate	Unit
1	Untreated Check		
2	Microsoil	1	l/ha

#### Additional Treatment Information

##### Treatment Name

Untreated Check = Not treated|

##### Rate Unit

L/ha = Liters Product per Hectare (US=GAL/A)|T

### 1.3 TRIAL LOCATION

**City:** Odemira      **Country:** PRT Portugal  
**Postal Code:** 7630  
**Official Trial ID:** 30/002/14  
**Conducted Under GEP:** Yes

### 1.4 OBJECTIVES

Evaluate the efficacy of MICROSOIL in sweet potato

### 1.5 COOPERATOR/LANDOWNER

**Cooperator:** Paul Lenehan  
**Address 1:** Odemira  
**Postal Code:** 7630  
**Country:** POR Portugal

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**1.6 CROP DESCRIPTION**

**Crop 1:** IPOAQ Ipomoea aquatica  
**Variety:** Bush Buck

Swamp morningglory

**Planting Rate, Unit:** 100000 P/HA  
**Row Spacing, Unit:** 0,4 m  
**Spacing Within Row, Unit:** 0,25 m

**Planting Date:** 24-6-2014  
**Planting Method:** SEEDED seeded

**1.7 SITE AND DESIGN**

**Site Type:**FIELD field  
**Treated Plot Area:** 2700 m2 **Treatments:** 2  
**Replications:** 4

**Tillage Type:** CONTIL conventional-till  
**Study Design:** RACOBL Randomized Complete Block (RCB)

**1.8 APPLICATION DESCRIPTION**

	<b>A</b>
<b>Application Date:</b>	24-6-2014
<b>Appl. Start Time:</b>	9:00
<b>Application Method:</b>	IRRDR
<b>Application Placement:</b>	SOIL

**1.9 PEST STAGE AT EAH APPLICATION**

	<b>A</b>
<b>Crop 1 Code, BBCH Scale:</b>	IPOAQ BDIC
<b>Stage Scale Used:</b>	BBCH
<b>Stage Majority, Percent:</b>	12

**1.10 APPLICATION EQUIPMENT**

	<b>A</b>
<b>Equipment Type:</b>	IRRPIV
<b>Operation Pressure, Unit:</b>	9 BAR
<b>Nozzle Type:</b>	DRIBEA
<b>Carrier:</b>	WATER

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### ***1.17 ARM CODE LIST***

O, other = other|Y

PRT, 42.15274, 37.008331, -9.494722, -6.187222 = Portugal

IPOAQ, BDIC, Ipomoea aquatica, = US

P/HA = plant per hectare

SEEDED, seeded = seeded

m = meter

FIELD, field = field

PLOT, plot = plot

CONTIL, conventional-till = conventional-till

RACOB, Randomized Complete Block (RCB) = Randomized Complete Block (RCB)

IRRDR = irrigation - dip

SOIL = soil

BBCH = BBCH uniform plant stages

12 = 2 true leaves, leaf pairs or whorls unfolded|BDIC

IRRPIV = Irrigation - center pivot

BAR = bar

DRIBEA = driftbeater

WATER = water

## 2 STATISTICAL ANALYSIS

### 2.1 AOV MEAN TABLE

Crop Code	IPOAQ	IPOAQ		
BBCH Scale	BDIC	BDIC		
Crop Scientific Name	Ipomoea aquati>	Ipomoea aquati>		
Crop Name	Swamp morningg>	Swamp morningg>		
Crop Variety	Bush Buck	Bush Buck		
Description				Kg/ha
Part Rated	YIELD C	TUBER C	YIELD C	FRUTOT C
Rating Date	03-10-2014	03-10-2014	03-10-2014	03-10-2014
Rating Type	WEIGHT	COUNT	CONTRO	WEIGHT
Rating Unit	kg	NUMBER	%UNCK	kg/ha
Sample Size, Unit	5 m2	5 m2	1 PLOT	1 ha
Collection Basis, Unit	1 PLOT	1 PLOT	1 PLOT	1 ha
Number of Subsamples	1	1	1	1
Crop Stage Majority	49	49	49	49
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH
SE Group No.	1	1	2	4
Days After First/Last Applic.	101 101	101 101	101 101	101 101
Trt-Eval Interval	101 DA-A	101 DA-A	101 DA-A	101 DA-A
Plant-Eval Interval	101 DP-1	101 DP-1	101 DP-1	101 DP-1
ARM Action Codes			@UPOC[1] S05	T1
Number of Decimals			2	1
Trt	Treatment	Rate	Rate	
No.	Name	Rate	Unit	
				1 2 3 4
1	Untreated Check			17,010 a 62,0 a 100,00 a 34020,0 a
2	Microsoil	1 l/ha		21,570 a 90,0 a 126,41 a 43140,0 a
LSD P=.05				11,4697 79,69 68,885 22939,36
Standard Deviation				3,2646 22,68 19,607 6529,13
CV				16,92 29,85 17,32 16,92
Grand Mean				19,2900 76,00 113,204 38580,00
Bartlett's X2				2,629 0,324 0,0 2,629
P(Bartlett's X2)				0,105 0,569 . 0,105
Friedman's X2				0,333 0,333 0,333 0,333
P(Friedman's X2)				0,564 0,564 0,564 0,564

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## 2.2 ARM CODE LIST

### Crop Code

IPOAQ, BDIC, Ipomoea aquatica, = US

### Part Rated

YIELD = yield

TUBER = tuber

FRUTOT = fruit - total

C = Crop is Part Rated

### Rating Type

WEIGHT = weight

COUNT = count

CONTRO = control / burndown or knockdown

### Rating Unit

kg = kilogram

NUMBER = number

%UNCK = percent of untreated check

kg/ha = kilograms per hectare

m<sup>2</sup> = square meter

PLOT = total plot

ha = hectare

PLOT = total plot

ha = hectare

### Crop Stage Scale

BBCH = BBCH uniform plant stages

### Plant-Eval Interval

101 DP-1 = 1 IPOAQ 24-6-2014

### ARM Action Codes

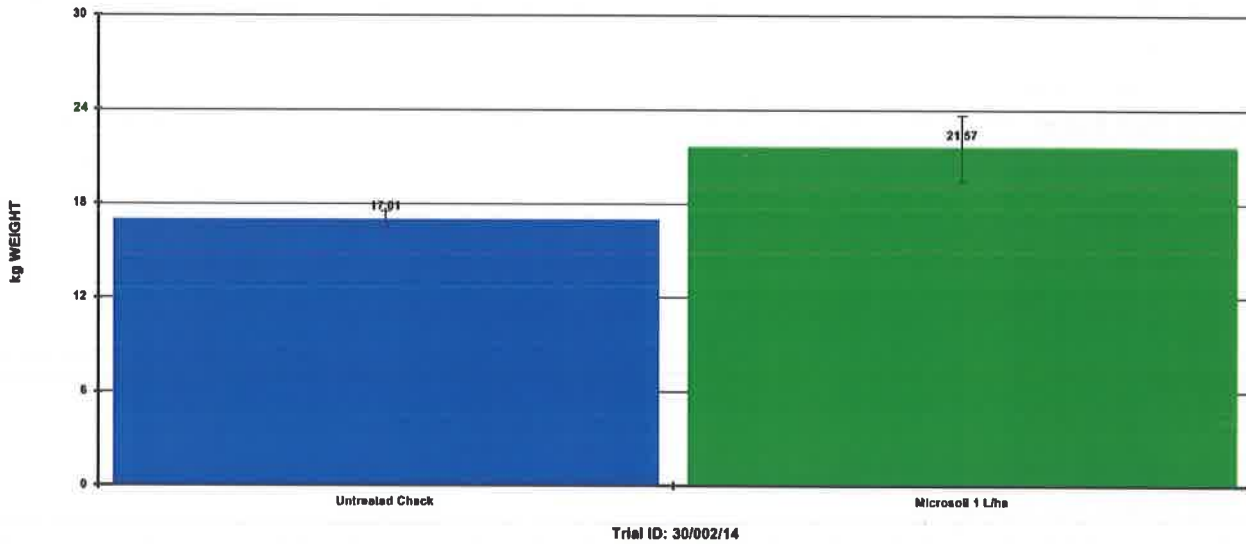
S05 = Perform 5% Student-Newman-Keuls mean separation on Standardized Summary

@UPOC[1] = &100\*@AvgSub([1])/[TUC1]

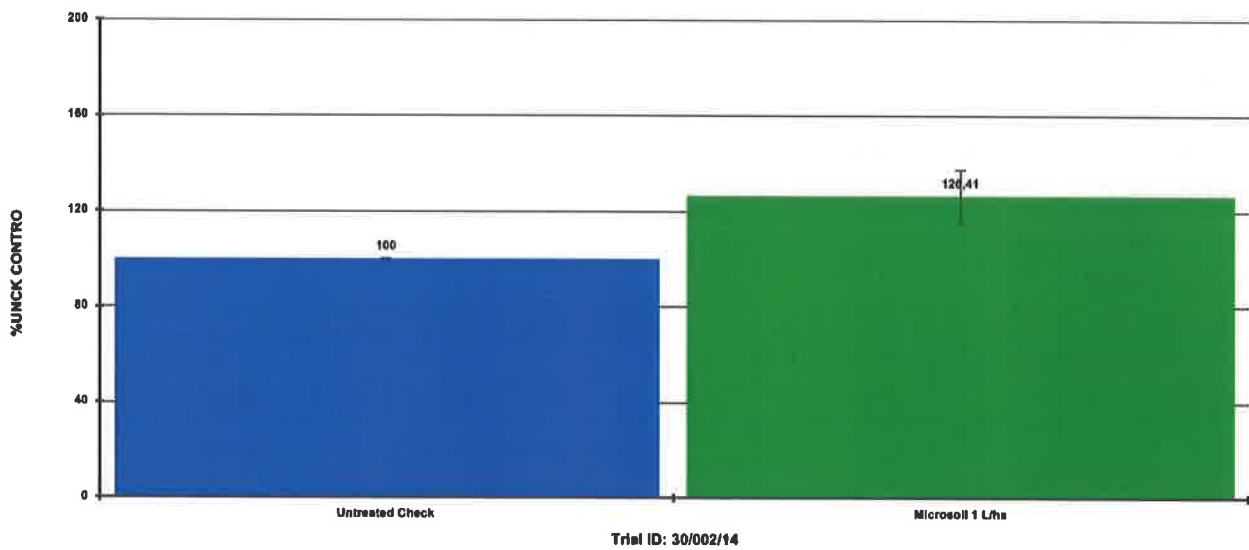
T1 = (10000\*[1])/5

### 3 GRAPHICS

Yield of 5 m2

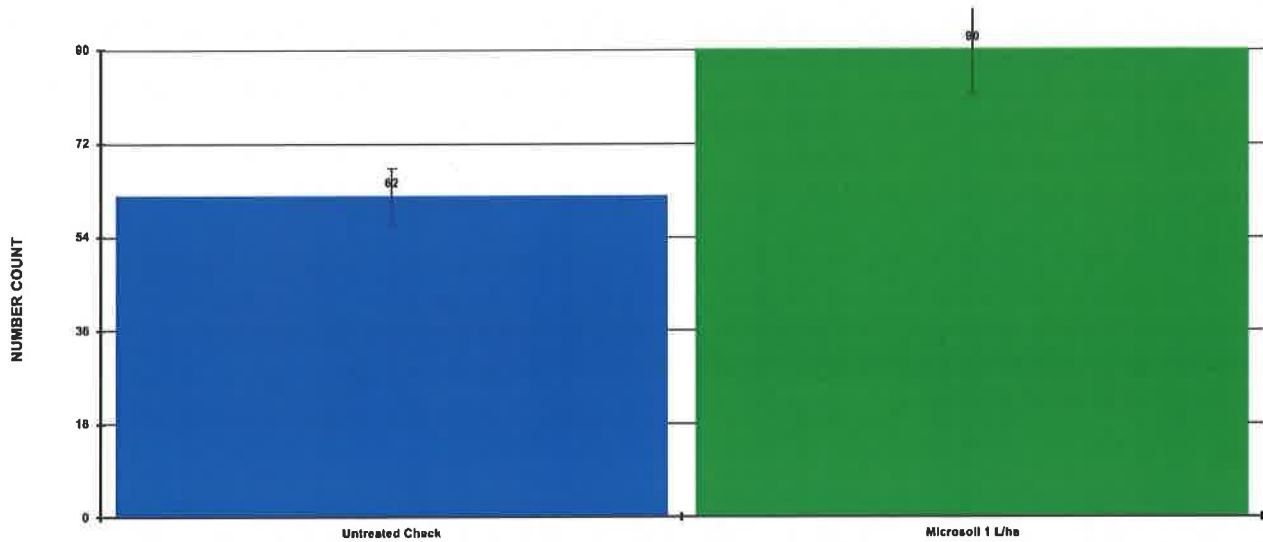


Diference of yield



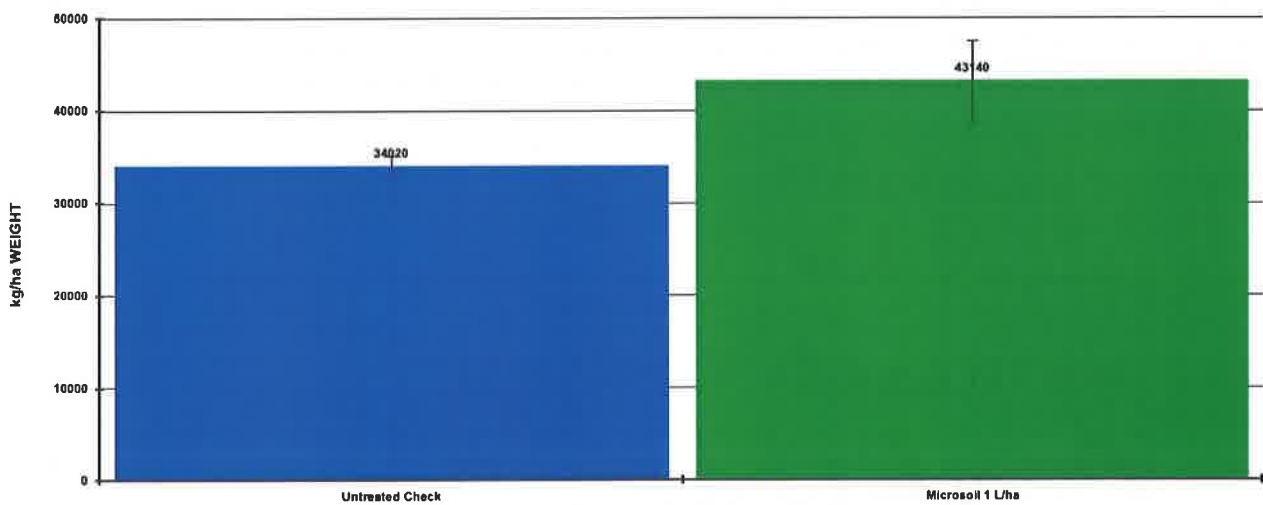


Number of tuber of 5 m2



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Yield per ha



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#### 4 DISCUSSION AND CONCLUSION

##### TRIAL SUMMARY

The main objective of this trial was to evaluate the efficacy of MICROSOIL applied to increase the production in sweet potato. The trial was located in Odemira, Portugal, in an area typical for potato production. The study described in this report was conducted in compliance with the principles of Good Experimental Practices (GEP). Test items were applied 1 times at 29/06/14 (BBCH crop stage: 12). MICROSOIL has been applied 1L/ha at irrigation. The harvest was made at 03/10/14 (BBCH 49). The total weight of the 5m<sup>2</sup> was assessed.

##### VALIDITY

- Plant Protection Products were applied on irrigation according to the dose rates of the protocol.
  - The plants and the conditions were homogenous until the end of the trial
- This trial can be considered as valid.

##### RESULTS

As a consequence of the application of the product MICROSOIL, untreated plots showed a lower yield/5m<sup>2</sup> and a lower number of tubers/5m<sup>2</sup> (17,01Kg/5m<sup>2</sup> and 62tubers/5m<sup>2</sup>) than treated plots (21,57Kg/5m<sup>2</sup> and 90tubers/5m<sup>2</sup>). Untreated plots showed 34Ton/ha, a production/ha more lower than the experimental product with 43.1 Ton/ha. The treated plots obtained a 23% more yield than untreated plots. No phytotoxicity symptoms on the crop or adverse effects on non-target pests or diseases were observed and assessed throughout the trial.

##### CONCLUSION

To summarize, under the conditions of the trial, it can be concluded that **the application of MICROSOIL at 1Lkg/ha at irrigation showed the best and higher yield when compared at untreated plots.**

STUDY DIRECTOR: *Maria Silva*

DATE: 11/06/2015

SIGNATURE: *Maria Silva*

FIELD RESPONSABLE: *Fernando Ribeiro*

DATE: 11/06/2015

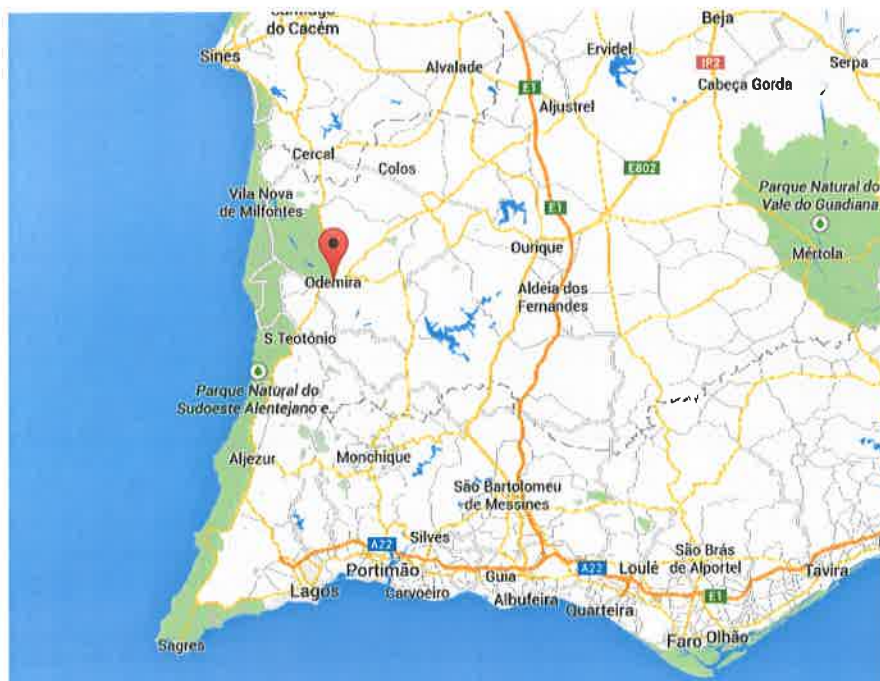
SIGNATURE: *Fernando Ribeiro*

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## **5 APPENDIX**

### **5.1 LOCATION OF THE TRIAL**



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## **5.2 SITE AND DESIGN**

301 1	302 2
201 2	202 1
101 1	102 2

### 5.3 PLOT DATA

Crop Code	IPOAQ		IPOAQ					
BBCH Scale	BDIC		BDIC					
Crop Scientific Name	Ipomoea aquati>		Ipomoea aquati>					
Crop Name	Swamp morningg>		Swamp morningg>					
Crop Variety	Bush Buck		Bush Buck					
Description						Kg/ha		
Part Rated	YIELD C		TUBER C		YIELD C CRUTOT C			
Rating Date	03-10-2014		03-10-2014		03-10-2014 -10-2014			
Rating Type	WEIGHT		COUNT		CONTRO WEIGHT			
Rating Unit	kg		NUMBER		%UNCK kg/ha			
Sample Size, Unit	5 m2		5 m2		1 PLOT 1 ha			
Collection Basis, Unit	1 PLOT		1 PLOT		1 PLOT 1 ha			
Number of Subsamples	1		1		1 1			
Crop Stage Majority	49		49		49 49			
Crop Stage Scale	BBCH		BBCH		BBCH BBCH			
SE Group No.	1		1		2 4			
Days After First/Last Applic.	101 101		101 101		101 101 101 101			
Trt-Eval Interval	101 DA-A		101 DA-A		101 DA-A 01 DA-A			
Plant-Eval Interval	101 DP-1		101 DP-1		101 DP-1 101 DP-1			
ARM Action Codes					@UPOC[1] S05 T1			
Number of Decimals					2 1			
Trt No.	Treatment Name	Rate	Unit	Plot	1	2	3	4
1	Untreated Check			102	16,060	76,0	100,00	32120,0
				201	16,440	50,0	100,00	32880,0
				302	18,530	60,0	100,00	37060,0
				Mean =	17,010	62,0	100,00	34020,0
2	Microsoil	1	l/ha	101	15,540	67,0	96,76	31080,0
				202	24,940	98,0	151,70	49880,0
				301	24,230	105,0	130,76	48460,0
				Mean =	21,570	90,0	126,41	43140,0

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Crop Code

IPOAQ, BDIC, Ipomoea aquatica, = US

Part Rated

YIELD = yield

TUBER = tuber

FRUTOT = fruit - total

C = Crop is Part Rated

Rating Type

WEIGHT = weight

COUNT = count

CONTRO = control / burndown or knockdown

Rating Unit

kg = kilogram

NUMBER = number

%UNCK = percent of untreated check

kg/ha = kilograms per hectare

m<sup>2</sup> = square meter

PLOT = total plot

ha = hectare

PLOT = total plot

ha = hectare

Crop Stage Scale

BBCH = BBCH uniform plant stages

Plant-Eval Interval

101 DP-1 = 1 IPOAQ 24-6-2014

ARM Action Codes

S05 = Perform 5% Student-Newman-Keuls mean separation on Standardized Summary

@UPOC[1] = &100\*@AvgSub([1])/[TUC1]

T1 = (10000\*[1])/5

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#### 5.4 WEATHER DATA

Meteorological station: Beja

Distance to the trial site: 80 Km

Source: <http://portuguese.wunderground.com/>

2014 Jun	Temperature			Dew Point			Humidity			Speed			Pressure			Precip.			
	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	Sum
1	28 °C	20 °C	13 °C	12 °C	9 °C	7 °C	0,77	0,54	0,27	21 kph	7 kph	0,27	1021 hPa	1019 hPa	24 kph	1021 hPa	1019 hPa	1018 hPa	0 hPa
2	29 °C	21 °C	13 °C	14 °C	11 °C	9 °C	0,78	0,57	0,3	18 kph	5 kph	0,3	1022 hPa	1020 hPa	24 kph	1022 hPa	1020 hPa	1019 hPa	0 hPa
3	25 °C	18 °C	13 °C	14 °C	12 °C	10 °C	0,94	0,71	0,47	18 kph	6 kph	0,47	1021 hPa	1020 hPa	21 kph	1021 hPa	1020 hPa	1019 hPa	0 hPa
4	26 °C	18 °C	13 °C	14 °C	12 °C	10 °C	0,91	0,7	0,47	16 kph	8 kph	0,47	1020 hPa	1018 hPa	21 kph	1020 hPa	1018 hPa	1016 hPa	0 hPa
5	29 °C	17 °C	11 °C	15 °C	11 °C	9 °C	0,91	0,7	0,34	15 kph	4 kph	0,34	1017 hPa	1014 hPa	23 kph	1017 hPa	1014 hPa	1010 hPa	0 hPa
6	22 °C	17 °C	14 °C	15 °C	14 °C	12 °C	0,96	0,81	0,62	20 kph	8 kph	0,62	1015 hPa	1013 hPa	24 kph	1015 hPa	1013 hPa	1011 hPa	0 hPa
7	23 °C	17 °C	13 °C	16 °C	13 °C	10 °C	0,95	0,78	0,55	13 kph	5 kph	0,55	1020 hPa	1017 hPa	18 kph	1020 hPa	1017 hPa	1015 hPa	0,3 hPa
8	24 °C	17 °C	11 °C	16 °C	12 °C	10 °C	0,97	0,76	0,5	15 kph	5 kph	0,5	1021 hPa	1020 hPa	22 kph	1021 hPa	1020 hPa	1019 hPa	0,3 hPa
9	25 °C	18 °C	14 °C	15 °C	13 °C	10 °C	0,95	0,73	0,43	19 kph	5 kph	0,43	1021 hPa	1020 hPa	21 kph	1021 hPa	1020 hPa	1020 hPa	0 hPa
10	26 °C	18 °C	14 °C	14 °C	13 °C	11 °C	0,97	0,73	0,4	18 kph	7 kph	0,4	1021 hPa	1019 hPa	24 kph	1021 hPa	1019 hPa	1017 hPa	0 hPa
11	34 °C	22 °C	12 °C	16 °C	13 °C	10 °C	0,89	0,62	0,29	15 kph	4 kph	0,29	1019 hPa	1018 hPa	24 kph	1019 hPa	1018 hPa	1016 hPa	0 hPa
12	36 °C	26 °C	18 °C	16 °C	14 °C	13 °C	0,8	0,53	0,27	23 kph	3 kph	0,27	1019 hPa	1018 hPa	27 kph	1019 hPa	1018 hPa	1017 hPa	0 hPa
13	35 °C	26 °C	19 °C	18 °C	16 °C	13 °C	0,74	0,54	0,34	18 kph	3 kph	0,34	1019 hPa	1017 hPa	20 kph	1019 hPa	1017 hPa	1015 hPa	0 hPa
14	39 °C	29 °C	21 °C	16 °C	15 °C	12 °C	0,72	0,46	0,21	19 kph	4 kph	0,21	1016 hPa	1013 hPa	27 kph	1016 hPa	1013 hPa	1010 hPa	0 hPa
15	37 °C	29 °C	20 °C	14 °C	12 °C	8 °C	0,58	0,37	0,18	17 kph	5 kph	0,18	1012 hPa	1011 hPa	25 kph	1012 hPa	1011 hPa	1009 hPa	0 hPa
16	34 °C	25 °C	18 °C	19 °C	16 °C	10 °C	0,9	0,58	0,31	16 kph	5 kph	0,31	1013 hPa	1012 hPa	23 kph	1013 hPa	1012 hPa	1010 hPa	0 hPa
17	30 °C	22 °C	17 °C	19 °C	17 °C	16 °C	0,97	0,78	0,47	14 kph	4 kph	0,47	1015 hPa	1014 hPa	18 kph	1015 hPa	1014 hPa	1012 hPa	0 hPa
18	26 °C	20 °C	16 °C	17 °C	15 °C	13 °C	0,95	0,75	0,48	19 kph	5 kph	0,48	1017 hPa	1016 hPa	24 kph	1017 hPa	1016 hPa	1014 hPa	0 hPa
19	26 °C	19 °C	14 °C	16 °C	13 °C	11 °C	0,96	0,71	0,42	18 kph	4 kph	0,42	1018 hPa	1017 hPa	28 kph	1018 hPa	1017 hPa	1015 hPa	0 hPa
20	26 °C	19 °C	13 °C	15 °C	13 °C	10 °C	0,96	0,69	0,39	23 kph	7 kph	0,39	1017 hPa	1016 hPa	26 kph	1017 hPa	1016 hPa	1014 hPa	0 hPa
21	24 °C	19 °C	16 °C	17 °C	15 °C	12 °C	0,94	0,76	0,52	18 kph	7 kph	0,52	1019 hPa	1017 hPa	22 kph	1019 hPa	1017 hPa	1015 hPa	0,3 hPa
22	24 °C	19 °C	15 °C	16 °C	15 °C	13 °C	0,98	0,8	0,51	17 kph	6 kph	0,51	1019 hPa	1018 hPa	23 kph	1019 hPa	1018 hPa	1017 hPa	0 hPa
23	22 °C	17 °C	15 °C	16 °C	15 °C	14 °C	0,98	0,87	0,61	13 kph	4 kph	0,61	1019 hPa	1018 hPa	20 kph	1019 hPa	1018 hPa	1017 hPa	0 hPa
24	22 °C	18 °C	13 °C	17 °C	15 °C	12 °C	0,98	0,86	0,67	20 kph	4 kph	0,67	1020 hPa	1018 hPa	27 kph	1020 hPa	1018 hPa	1017 hPa	0 hPa
25	23 °C	19 °C	16 °C	17 °C	15 °C	13 °C	0,95	0,82	0,62	18 kph	7 kph	0,62	1020 hPa	1019 hPa	23 kph	1020 hPa	1019 hPa	1018 hPa	0 hPa
26	26 °C	19 °C	14 °C	16 °C	14 °C	13 °C	0,97	0,76	0,44	18 kph	7 kph	0,44	1020 hPa	1019 hPa	21 kph	1020 hPa	1019 hPa	1018 hPa	0 hPa
27	29 °C	20 °C	14 °C	16 °C	14 °C	12 °C	0,97	0,73	0,37	19 kph	6 kph	0,37	1020 hPa	1019 hPa	21 kph	1020 hPa	1019 hPa	1017 hPa	0 hPa
28	26 °C	20 °C	14 °C	16 °C	15 °C	13 °C	0,95	0,75	0,52	20 kph	5 kph	0,52	1021 hPa	1020 hPa	27 kph	1021 hPa	1020 hPa	1018 hPa	0 hPa
29	26 °C	19 °C	13 °C	14 °C	12 °C	10 °C	0,92	0,67	0,39	19 kph	8 kph	0,39	1023 hPa	1022 hPa	24 kph	1023 hPa	1022 hPa	1021 hPa	0 hPa
30	27 °C	19 °C	12 °C	14 °C	12 °C	10 °C	0,93	0,69	0,36	19 kph	8 kph	0,36	1022 hPa	1020 hPa	24 kph	1022 hPa	1020 hPa	1019 hPa	0 hPa

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2014	Temperature			Dew Point			Humidity			Speed			Pressure			Precip.	
	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Sum
Jul 1	24 °C	18 °C	14 °C	18 °C	14 °C	11 °C	0,95	0,8	0,49	20 kph	7 kph	29 kph	1020 hPa	1019 hPa	1018 hPa	0 hPa	0 hPa
2	23 °C	18 °C	15 °C	15 °C	14 °C	13 °C	0,93	0,76	0,55	27 kph	9 kph	29 kph	1019 hPa	1018 hPa	1016 hPa	0 hPa	0 hPa
3	29 °C	20 °C	15 °C	17 °C	15 °C	12 °C	0,96	0,74	0,36	20 kph	5 kph	29 kph	1020 hPa	1019 hPa	1017 hPa	0 hPa	0 hPa
4	30 °C	21 °C	15 °C	17 °C	16 °C	14 °C	0,98	0,74	0,4	15 kph	5 kph	22 kph	1021 hPa	1019 hPa	1017 hPa	0 hPa	0 hPa
5	30 °C	20 °C	13 °C	18 °C	15 °C	12 °C	0,95	0,77	0,43	20 kph	7 kph	24 kph	1020 hPa	1018 hPa	1017 hPa	0 hPa	0 hPa
6	24 °C	19 °C	16 °C	19 °C	16 °C	15 °C	0,95	0,84	0,66	18 kph	6 kph	22 kph	1020 hPa	1019 hPa	1018 hPa	0 hPa	0 hPa
7	27 °C	20 °C	13 °C	15 °C	12 °C	10 °C	0,93	0,67	0,4	20 kph	9 kph	24 kph	1022 hPa	1021 hPa	1019 hPa	0 hPa	0 hPa
8	32 °C	22 °C	13 °C	17 °C	13 °C	11 °C	0,88	0,61	0,33	19 kph	9 kph	24 kph	1022 hPa	1019 hPa	1016 hPa	0 hPa	0 hPa
9	36 °C	24 °C	14 °C	16 °C	14 °C	10 °C	0,92	0,59	0,22	17 kph	5 kph	21 kph	1018 hPa	1015 hPa	1013 hPa	0 hPa	0 hPa
10	36 °C	26 °C	18 °C	16 °C	14 °C	12 °C	0,83	0,51	0,24	20 kph	4 kph	23 kph	1016 hPa	1015 hPa	1014 hPa	0 hPa	0 hPa
11	37 °C	27 °C	18 °C	15 °C	12 °C	9 °C	0,81	0,43	0,2	16 kph	4 kph	23 kph	1017 hPa	1015 hPa	1013 hPa	0 hPa	0 hPa
12	36 °C	26 °C	18 °C	15 °C	12 °C	7 °C	0,64	0,45	0,17	21 kph	4 kph	24 kph	1017 hPa	1015 hPa	1014 hPa	0 hPa	0 hPa
13	33 °C	23 °C	14 °C	17 °C	15 °C	12 °C	0,89	0,62	0,31	15 kph	5 kph	20 kph	1018 hPa	1017 hPa	1015 hPa	0 hPa	0 hPa
14	34 °C	23 °C	15 °C	18 °C	16 °C	13 °C	0,95	0,67	0,29	16 kph	4 kph	18 kph	1018 hPa	1016 hPa	1015 hPa	0 hPa	0 hPa
15	37 °C	25 °C	16 °C	18 °C	15 °C	12 °C	0,92	0,61	0,27	18 kph	4 kph	24 kph	1017 hPa	1016 hPa	1015 hPa	0 hPa	0 hPa
16	37 °C	26 °C	18 °C	19 °C	15 °C	12 °C	0,89	0,56	0,28	18 kph	3 kph	24 kph	1017 hPa	1016 hPa	1015 hPa	0 hPa	0 hPa
17	34 °C	23 °C	15 °C	17 °C	15 °C	12 °C	0,95	0,66	0,33	16 kph	5 kph	21 kph	1019 hPa	1017 hPa	1015 hPa	0 hPa	0 hPa
18	27 °C	20 °C	15 °C	17 °C	14 °C	12 °C	0,96	0,73	0,41	22 kph	5 kph	22 kph	1017 hPa	1016 hPa	1015 hPa	0 hPa	0 hPa
19	24 °C	20 °C	17 °C	18 °C	16 °C	13 °C	0,92	0,79	0,51	19 kph	6 kph	23 kph	1020 hPa	1017 hPa	1015 hPa	0 hPa	0 hPa
20	28 °C	20 °C	15 °C	17 °C	15 °C	13 °C	0,97	0,75	0,43	20 kph	7 kph	28 kph	1022 hPa	1021 hPa	1020 hPa	0 hPa	0 hPa
21	33 °C	22 °C	14 °C	15 °C	13 °C	8 °C	0,94	0,62	0,23	18 kph	4 kph	23 kph	1022 hPa	1020 hPa	1017 hPa	0 hPa	0 hPa
22	35 °C	24 °C	16 °C	16 °C	14 °C	8 °C	0,89	0,58	0,25	21 kph	3 kph	25 kph	1019 hPa	1016 hPa	1013 hPa	0 hPa	0 hPa
23	30 °C	21 °C	15 °C	17 °C	15 °C	13 °C	0,97	0,73	0,38	18 kph	6 kph	23 kph	1015 hPa	1014 hPa	1013 hPa	0 hPa	0 hPa
24	27 °C	20 °C	15 °C	16 °C	15 °C	14 °C	0,95	0,75	0,48	18 kph	8 kph	24 kph	1015 hPa	1014 hPa	1012 hPa	0 hPa	0 hPa
25	28 °C	20 °C	16 °C	18 °C	16 °C	14 °C	0,95	0,79	0,51	13 kph	4 kph	18 kph	1014 hPa	1013 hPa	1012 hPa	0 hPa	0 hPa
26	32 °C	22 °C	15 °C	19 °C	16 °C	14 °C	0,96	0,74	0,38	19 kph	3 kph	22 kph	1017 hPa	1015 hPa	1013 hPa	0 hPa	0 hPa
27	32 °C	22 °C	17 °C	17 °C	16 °C	14 °C	0,93	0,73	0,35	16 kph	4 kph	21 kph	1019 hPa	1017 hPa	1016 hPa	0 hPa	0 hPa
28	30 °C	21 °C	16 °C	18 °C	16 °C	15 °C	0,94	0,75	0,41	15 kph	4 kph	22 kph	1018 hPa	1017 hPa	1015 hPa	0 hPa	0 hPa
29	33 °C	22 °C	16 °C	19 °C	16 °C	13 °C	0,98	0,74	0,31	12 kph	2 kph	18 kph	1016 hPa	1014 hPa	1012 hPa	0 hPa	0 hPa
30	33 °C	23 °C	17 °C	18 °C	16 °C	12 °C	0,89	0,7	0,34	16 kph	6 kph	25 kph	1015 hPa	1013 hPa	1012 hPa	0 hPa	0 hPa
31	28 °C	21 °C	18 °C	17 °C	16 °C	15 °C	0,89	0,76	0,49	16 kph	4 kph	24 kph	1017 hPa	1016 hPa	1015 hPa	0 hPa	0 hPa



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REPORT

30/002/14

2014	Temperature			Dew Point			Humidity			Speed			Pressure			Precip.	
	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Low	Sum	
Aug 1	26 °C	20 °C	17 °C	16 °C	15 °C	14 °C	0,87	0,74	0,52	23 kph	8 kph	28 kph	1017 hPa	1016 hPa	1015 hPa	0 hPa	
2	26 °C	20 °C	17 °C	17 °C	16 °C	15 °C	0,94	0,78	0,51	21 kph	7 kph	25 kph	1017 hPa	1016 hPa	1014 hPa	0 hPa	
3	27 °C	22 °C	18 °C	18 °C	16 °C	11 °C	0,95	0,73	0,51	14 kph	4 kph	19 kph	1016 hPa	1015 hPa	1013 hPa	0 hPa	
4	29 °C	21 °C	14 °C	15 °C	13 °C	10 °C	0,87	0,63	0,39	20 kph	8 kph	27 kph	1021 hPa	1019 hPa	1016 hPa	0 hPa	
5	32 °C	22 °C	15 °C	17 °C	15 °C	14 °C	0,94	0,69	0,35	20 kph	8 kph	24 kph	1021 hPa	1020 hPa	1018 hPa	0 hPa	
6	31 °C	22 °C	16 °C	18 °C	16 °C	15 °C	0,96	0,72	0,4	17 kph	8 kph	25 kph	1021 hPa	1019 hPa	1018 hPa	0 hPa	
7	31 °C	23 °C	17 °C	20 °C	18 °C	15 °C	0,94	0,74	0,47	20 kph	9 kph	22 kph	1020 hPa	1018 hPa	1015 hPa	0 hPa	
8	31 °C	23 °C	18 °C	19 °C	18 °C	17 °C	0,95	0,75	0,48	20 kph	9 kph	23 kph	1017 hPa	1015 hPa	1014 hPa	0 hPa	
9	30 °C	23 °C	18 °C	20 °C	18 °C	17 °C	0,97	0,77	0,46	19 kph	5 kph	25 kph	1016 hPa	1014 hPa	1013 hPa	0 hPa	
10	30 °C	22 °C	18 °C	19 °C	18 °C	15 °C	0,98	0,78	0,45	21 kph	5 kph	25 kph	1018 hPa	1016 hPa	1015 hPa	0 hPa	
11	29 °C	22 °C	17 °C	20 °C	17 °C	12 °C	0,97	0,74	0,46	19 kph	7 kph	25 kph	1020 hPa	1018 hPa	1017 hPa	0 hPa	
12	31 °C	22 °C	15 °C	19 °C	15 °C	11 °C	0,88	0,69	0,47	26 kph	10 kph	27 kph	1020 hPa	1018 hPa	1017 hPa	0 hPa	
13	29 °C	22 °C	16 °C	19 °C	13 °C	7 °C	0,93	0,61	0,26	21 kph	11 kph	27 kph	1019 hPa	1017 hPa	1015 hPa	0 hPa	
14	31 °C	21 °C	13 °C	14 °C	12 °C	10 °C	0,89	0,59	0,29	18 kph	8 kph	21 kph	1019 hPa	1017 hPa	1016 hPa	0 hPa	
15	33 °C	23 °C	14 °C	16 °C	12 °C	7 °C	0,82	0,55	0,21	19 kph	8 kph	25 kph	1020 hPa	1018 hPa	1017 hPa	0 hPa	
16	36 °C	24 °C	14 °C	15 °C	13 °C	9 °C	0,88	0,54	0,21	13 kph	5 kph	16 kph	1020 hPa	1017 hPa	1014 hPa	0 hPa	
17	37 °C	26 °C	19 °C	19 °C	16 °C	13 °C	0,74	0,55	0,32	25 kph	5 kph	28 kph	1016 hPa	1013 hPa	1011 hPa	0 hPa	
18	30 °C	21 °C	16 °C	16 °C	14 °C	12 °C	0,92	0,67	0,36	22 kph	6 kph	24 kph	1015 hPa	1013 hPa	1011 hPa	0 hPa	
19	25 °C	19 °C	15 °C	16 °C	15 °C	14 °C	0,94	0,78	0,5	18 kph	5 kph	23 kph	1019 hPa	1016 hPa	1014 hPa	0 hPa	
20	31 °C	20 °C	13 °C	17 °C	12 °C	7 °C	0,97	0,68	0,25	17 kph	4 kph	21 kph	1020 hPa	1018 hPa	1017 hPa	0 hPa	
21	29 °C	20 °C	15 °C	16 °C	14 °C	12 °C	0,88	0,7	0,43	20 kph	4 kph	24 kph	1019 hPa	1017 hPa	1016 hPa	0 hPa	
22	28 °C	20 °C	15 °C	16 °C	14 °C	12 °C	0,96	0,7	0,4	19 kph	6 kph	24 kph	1020 hPa	1018 hPa	1017 hPa	0 hPa	
23	28 °C	20 °C	14 °C	15 °C	14 °C	12 °C	0,93	0,69	0,41	15 kph	5 kph	21 kph	1020 hPa	1019 hPa	1018 hPa	0 hPa	
24	34 °C	22 °C	13 °C	14 °C	12 °C	9 °C	0,93	0,6	0,22	19 kph	3 kph	24 kph	1020 hPa	1019 hPa	1017 hPa	0 hPa	
25	35 °C	23 °C	14 °C	17 °C	12 °C	6 °C	0,82	0,54	0,2	20 kph	4 kph	21 kph	1020 hPa	1018 hPa	1016 hPa	0 hPa	
26	33 °C	24 °C	19 °C	20 °C	19 °C	16 °C	0,94	0,74	0,42	18 kph	8 kph	24 kph	1019 hPa	1018 hPa	1016 hPa	0 hPa	
27	35 °C	24 °C	18 °C	20 °C	17 °C	15 °C	0,95	0,69	0,33	17 kph	6 kph	20 kph	1019 hPa	1017 hPa	1016 hPa	0 hPa	
28	34 °C	24 °C	18 °C	20 °C	17 °C	15 °C	0,93	0,68	0,36	21 kph	7 kph	25 kph	1019 hPa	1018 hPa	1016 hPa	0 hPa	
29	31 °C	23 °C	16 °C	15 °C	13 °C	9 °C	0,83	0,59	0,26	20 kph	7 kph	22 kph	1020 hPa	1018 hPa	1016 hPa	0 hPa	
30	29 °C	21 °C	16 °C	15 °C	13 °C	10 °C	0,86	0,64	0,31	18 kph	6 kph	22 kph	1018 hPa	1017 hPa	1016 hPa	0 hPa	
31	34 °C	22 °C	15 °C	17 °C	14 °C	4 °C	0,95	0,64	0,26	15 kph	3 kph	22 kph	1017 hPa	1016 hPa	1014 hPa	0 hPa	

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REPORT

30/002/14

2014 Sep	Temperature			Dew Point			Humidity			Speed			Pressure			Precip.	
	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Low	Sum	Sum
1	38 °C	24 °C	16 °C	16 °C	14 °C	7 °C	0,89	0,58	0,27	18 kph	3 kph	0,27	1016 hPa	1014 hPa	1012 hPa	0 hPa	0 hPa
2	31 °C	22 °C	17 °C	19 °C	16 °C	10 °C	0,89	0,68	0,49	19 kph	5 kph	0,49	1015 hPa	1014 hPa	1012 hPa	0 hPa	0 hPa
3	29 °C	22 °C	17 °C	19 °C	18 °C	16 °C	0,96	0,78	0,5	17 kph	4 kph	0,5	1016 hPa	1015 hPa	1014 hPa	0 hPa	0 hPa
4	30 °C	22 °C	18 °C	19 °C	17 °C	14 °C	0,96	0,75	0,42	18 kph	4 kph	0,42	1017 hPa	1016 hPa	1015 hPa	0 hPa	0 hPa
5	30 °C	22 °C	16 °C	19 °C	17 °C	15 °C	0,94	0,76	0,44	18 kph	3 kph	0,44	1018 hPa	1016 hPa	1015 hPa	0 hPa	0 hPa
6	28 °C	23 °C	19 °C	22 °C	20 °C	18 °C	0,95	0,84	0,63	14 kph	4 kph	0,63	1016 hPa	1014 hPa	1013 hPa	3 hPa	3 hPa
7	29 °C	23 °C	20 °C	20 °C	19 °C	15 °C	0,94	0,81	0,45	18 kph	6 kph	0,45	1014 hPa	1013 hPa	1012 hPa	2 hPa	2 hPa
8	27 °C	22 °C	19 °C	20 °C	18 °C	16 °C	0,97	0,81	0,54	20 kph	5 kph	0,54	1017 hPa	1015 hPa	1014 hPa	0 hPa	0 hPa
9	30 °C	22 °C	16 °C	19 °C	17 °C	15 °C	0,96	0,76	0,46	14 kph	4 kph	0,46	1017 hPa	1016 hPa	1014 hPa	0 hPa	0 hPa
10	26 °C	20 °C	17 °C	21 °C	19 °C	16 °C	0,96	0,89	0,66	17 kph	6 kph	0,66	1016 hPa	1015 hPa	1014 hPa	23.4 hPa	23.4 hPa
11	26 °C	22 °C	18 °C	20 °C	19 °C	18 °C	0,98	0,85	0,64	21 kph	7 kph	0,64	1018 hPa	1016 hPa	1014 hPa	0.5 hPa	0.5 hPa
12	29 °C	22 °C	19 °C	21 °C	19 °C	16 °C	0,97	0,81	0,5	16 kph	4 kph	0,5	1019 hPa	1018 hPa	1016 hPa	0 hPa	0 hPa
13	29 °C	22 °C	18 °C	20 °C	17 °C	15 °C	0,97	0,77	0,42	15 kph	2 kph	0,42	1019 hPa	1018 hPa	1017 hPa	0 hPa	0 hPa
14	27 °C	21 °C	18 °C	20 °C	18 °C	16 °C	0,97	0,82	0,55	16 kph	6 kph	0,55	1018 hPa	1016 hPa	1014 hPa	0 hPa	0 hPa
15	27 °C	22 °C	18 °C	20 °C	18 °C	16 °C	0,96	0,8	0,54	23 kph	10 kph	0,54	1016 hPa	1012 hPa	1009 hPa	0 hPa	0 hPa
16	25 °C	21 °C	17 °C	19 °C	18 °C	16 °C	0,96	0,83	0,59	27 kph	13 kph	0,59	1009 hPa	1007 hPa	1005 hPa	36.8 hPa	36.8 hPa
17	25 °C	20 °C	18 °C	20 °C	18 °C	17 °C	0,96	0,87	0,66	21 kph	8 kph	0,66	1010 hPa	1009 hPa	1007 hPa	45 hPa	45 hPa
18	24 °C	20 °C	18 °C	18 °C	17 °C	16 °C	0,95	0,86	0,66	22 kph	8 kph	0,66	1011 hPa	1010 hPa	1009 hPa	3.6 hPa	3.6 hPa
19	25 °C	20 °C	18 °C	19 °C	17 °C	15 °C	0,97	0,83	0,6	21 kph	6 kph	0,6	1016 hPa	1013 hPa	1009 hPa	5.6 hPa	5.6 hPa
20	27 °C	20 °C	16 °C	19 °C	16 °C	15 °C	0,95	0,8	0,51	18 kph	6 kph	0,51	1018 hPa	1017 hPa	1015 hPa	0 hPa	0 hPa
21	27 °C	20 °C	16 °C	18 °C	17 °C	15 °C	0,97	0,83	0,52	13 kph	3 kph	0,52	1018 hPa	1017 hPa	1015 hPa	0.8 hPa	0.8 hPa
22	25 °C	19 °C	16 °C	19 °C	16 °C	14 °C	0,99	0,86	0,55	22 kph	4 kph	0,55	1017 hPa	1016 hPa	1015 hPa	0.8 hPa	0.8 hPa
23	25 °C	19 °C	15 °C	19 °C	17 °C	15 °C	0,97	0,86	0,62	18 kph	5 kph	0,62	1016 hPa	1015 hPa	1013 hPa	2 hPa	2 hPa
24	25 °C	19 °C	15 °C	18 °C	16 °C	15 °C	0,97	0,85	0,54	13 kph	3 kph	0,54	1019 hPa	1017 hPa	1015 hPa	0.5 hPa	0.5 hPa
25	28 °C	21 °C	15 °C	19 °C	16 °C	14 °C	0,96	0,77	0,46	18 kph	2 kph	0,46	1019 hPa	1018 hPa	1016 hPa	0 hPa	0 hPa
26	28 °C	21 °C	17 °C	19 °C	17 °C	15 °C	0,95	0,79	0,47	15 kph	4 kph	0,47	1021 hPa	1019 hPa	1018 hPa	0.5 hPa	0.5 hPa
27	25 °C	19 °C	16 °C	19 °C	17 °C	15 °C	0,96	0,89	0,64	15 kph	3 kph	0,64	1021 hPa	1019 hPa	1016 hPa	18.8 hPa	18.8 hPa
28	25 °C	19 °C	15 °C	20 °C	16 °C	15 °C	0,98	0,84	0,58	13 kph	3 kph	0,58	1023 hPa	1021 hPa	1019 hPa	0.5 hPa	0.5 hPa
29	26 °C	19 °C	14 °C	18 °C	15 °C	14 °C	0,98	0,82	0,49	18 kph	4 kph	0,49	1025 hPa	1023 hPa	1022 hPa	0.5 hPa	0.5 hPa
30	27 °C	20 °C	14 °C	17 °C	15 °C	13 °C	0,97	0,78	0,5	15 kph	4 kph	0,5	1024 hPa	1022 hPa	1020 hPa	0 hPa	0 hPa

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REPORT  
 30/002/14

2014	Temperature			Dew Point			Humidity			Speed			Pressure			Precip.	
	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Low	Sum	Sum
1	29 °C	23 °C	16 °C	19 °C	17 °C	15 °C	0,93	0,71	0,48	10 kph	2 kph	13 kph	1022 hPa	1020 hPa	1019 hPa	0 hPa	0 hPa
2	31 °C	24 °C	18 °C	20 °C	18 °C	16 °C	0,9	0,71	0,43	8 kph	1 kph	12 kph	1022 hPa	1020 hPa	1019 hPa	0 hPa	0 hPa
3	31 °C	23 °C	18 °C	20 °C	18 °C	17 °C	0,94	0,78	0,47	18 kph	2 kph	20 kph	1022 hPa	1020 hPa	1019 hPa	0 hPa	0 hPa
4	26 °C	20 °C	16 °C	18 °C	16 °C	14 °C	0,94	0,8	0,52	14 kph	5 kph	17 kph	1022 hPa	1020 hPa	1019 hPa	0 hPa	0 hPa
5	22 °C	17 °C	14 °C	16 °C	13 °C	11 °C	0,98	0,77	0,53	23 kph	7 kph	24 kph	1021 hPa	1019 hPa	1017 hPa	0 hPa	0 hPa
6	24 °C	17 °C	14 °C	17 °C	14 °C	11 °C	0,93	0,82	0,62	15 kph	6 kph	21 kph	1019 hPa	1017 hPa	1016 hPa	0 hPa	0 hPa
7	26 °C	20 °C	15 °C	19 °C	17 °C	15 °C	0,97	0,85	0,62	11 kph	4 kph	15 kph	1018 hPa	1016 hPa	1014 hPa	0 hPa	0 hPa
8	24 °C	20 °C	17 °C	20 °C	18 °C	16 °C	0,96	0,87	0,68	19 kph	8 kph	24 kph	1015 hPa	1014 hPa	1013 hPa	0,3 hPa	0,3 hPa
9	22 °C	19 °C	17 °C	20 °C	18 °C	17 °C	0,98	0,94	0,83	13 kph	5 kph	17 kph	1015 hPa	1014 hPa	1012 hPa	24.6 hPa	24.6 hPa
10	23 °C	18 °C	15 °C	19 °C	17 °C	14 °C	0,98	0,92	0,74	9 kph	2 kph	16 kph	1016 hPa	1014 hPa	1013 hPa	3 hPa	3 hPa
11	20 °C	16 °C	14 °C	17 °C	15 °C	13 °C	0,97	0,93	0,8	17 kph	3 kph	25 kph	1015 hPa	1011 hPa	1007 hPa	18.5 hPa	18.5 hPa
12	19 °C	15 °C	14 °C	15 °C	14 °C	12 °C	0,95	0,89	0,75	29 kph	8 kph	37 kph	1015 hPa	1011 hPa	1007 hPa	7.9 hPa	7.9 hPa
13	19 °C	15 °C	13 °C	15 °C	13 °C	12 °C	0,98	0,9	0,74	27 kph	8 kph	35 kph	1015 hPa	1012 hPa	1008 hPa	32.5 hPa	32.5 hPa
14	21 °C	16 °C	13 °C	15 °C	13 °C	12 °C	0,98	0,84	0,6	17 kph	5 kph	27 kph	1016 hPa	1013 hPa	1010 hPa	0.3 hPa	0.3 hPa
15	24 °C	20 °C	16 °C	20 °C	17 °C	14 °C	0,98	0,88	0,72	20 kph	8 kph	24 kph	1017 hPa	1016 hPa	1014 hPa	1.8 hPa	1.8 hPa
16	24 °C	20 °C	17 °C	19 °C	18 °C	17 °C	0,98	0,86	0,66	22 kph	8 kph	25 kph	1017 hPa	1016 hPa	1015 hPa	0.3 hPa	0.3 hPa
17	25 °C	20 °C	16 °C	19 °C	17 °C	16 °C	0,96	0,86	0,64	18 kph	9 kph	23 kph	1018 hPa	1017 hPa	1015 hPa	0 hPa	0 hPa
18	25 °C	20 °C	16 °C	20 °C	18 °C	15 °C	0,97	0,88	0,69	11 kph	5 kph	16 kph	1019 hPa	1018 hPa	1016 hPa	0.5 hPa	0.5 hPa
19	30 °C	22 °C	15 °C	19 °C	16 °C	14 °C	0,95	0,71	0,4	16 kph	4 kph	22 kph	1018 hPa	1016 hPa	1015 hPa	0 hPa	0 hPa
20	31 °C	24 °C	18 °C	16 °C	14 °C	11 °C	0,76	0,57	0,36	13 kph	4 kph	16 kph	1022 hPa	1019 hPa	1015 hPa	0 hPa	0 hPa
21	30 °C	22 °C	16 °C	20 °C	16 °C	13 °C	0,88	0,68	0,47	9 kph	3 kph	12 kph	1027 hPa	1024 hPa	1022 hPa	0 hPa	0 hPa
22	30 °C	23 °C	17 °C	20 °C	17 °C	13 °C	0,89	0,7	0,49	8 kph	2 kph	10 kph	1027 hPa	1025 hPa	1023 hPa	0 hPa	0 hPa
23	29 °C	21 °C	15 °C	14 °C	11 °C	7 °C	0,82	0,56	0,27	10 kph	2 kph	12 kph	1023 hPa	1021 hPa	1019 hPa	0 hPa	0 hPa
24	28 °C	20 °C	13 °C	16 °C	12 °C	8 °C	0,75	0,59	0,37	14 kph	2 kph	14 kph	1019 hPa	1017 hPa	1015 hPa	0 hPa	0 hPa
25	26 °C	20 °C	14 °C	15 °C	13 °C	10 °C	0,86	0,65	0,45	20 kph	6 kph	20 kph	1020 hPa	1018 hPa	1015 hPa	0 hPa	0 hPa
26	26 °C	18 °C	13 °C	17 °C	15 °C	12 °C	0,93	0,79	0,55	11 kph	3 kph	18 kph	1021 hPa	1020 hPa	1019 hPa	0 hPa	0 hPa
27	25 °C	19 °C	12 °C	17 °C	15 °C	12 °C	0,98	0,79	0,5	12 kph	2 kph	16 kph	1021 hPa	1017 hPa	1014 hPa	0.5 hPa	0.5 hPa
28	25 °C	20 °C	17 °C	17 °C	15 °C	14 °C	0,88	0,76	0,58	19 kph	7 kph	22 kph	1015 hPa	1013 hPa	1011 hPa	0 hPa	0 hPa
29	28 °C	20 °C	15 °C	19 °C	15 °C	13 °C	0,92	0,74	0,47	11 kph	5 kph	16 kph	1017 hPa	1014 hPa	1011 hPa	0 hPa	0 hPa
30	27 °C	20 °C	15 °C	16 °C	14 °C	12 °C	0,91	0,69	0,49	18 kph	8 kph	28 kph	1020 hPa	1018 hPa	1017 hPa	0 hPa	0 hPa
31	26 °C	20 °C	15 °C	17 °C	14 °C	10 °C	0,89	0,68	0,44	18 kph	6 kph	22 kph	1022 hPa	1020 hPa	1019 hPa	0 hPa	0 hPa