

Tel: 021 8511 044

Unit D45, Olive Grove Industrial Estate

5 Old Paardevlei Rd

Somerset West, 7130

Web: [www.hortec.co.za](http://www.hortec.co.za)



## Temperature and Rainfall report for MID-JULY 2023 vs 2022

1 - 15 July																		
Area	Average Temp			MAX Temp			MIN Temp			Avg Daily MAX			Avg Daily MIN			Total Rain		
	2022	2023	23 vs '22	2022	2023	23 vs '22	2022	2023	23 vs '22	2022	2023	23 vs '22	2022	2023	23 vs '22	2022	2023	23 vs '22
Elgin	10.7	9.9	↓ -0.9	27.3	25.2	↓ -2.1	-0.8	-1.1	↓ -0.4	16.9	17.9	↑ 1.0	4.7	3.5	↓ -1.2	64	67	↑ 3
Ermelo	9.4	7.0	↓ -2.4	21.5	20.7	↓ -0.8	-3.7	-4.5	↓ -0.9	18.0	15.9	↓ -2.1	2.3	-0.3	↓ -2.6	8	17	↑ 9
Franschhoek	12.6	12.3	↓ -0.4	25.9	25.2	↓ -0.7	3.8	4.8	↑ 1.0	18.0	19.0	↑ 1.0	8.8	7.6	↓ -1.2	74	70	↓ -3
Greyton	11.4	10.0	↓ -1.4	28.2	17.0	↓ -11.2	1.6	0.0	↓ -1.6	18.6	18.2	↓ -0.4	5.3	4.0	↓ -1.3	25	33	↑ 8
Koue Bokkeveld	8.2	8.1	↓ -0.1	23.2	21.5	↓ -1.7	-4.5	-4.2	↑ 0.3	14.9	16.9	↑ 2.1	2.3	1.1	↓ -1.2	30	48	↑ 18
Ladismith	10.9	10.5	↓ -0.4	26.1	25.1	↓ -1.0	1.4	-1.0	↓ -2.4	18.4	18.3	↓ -0.1	5.0	3.8	↓ -1.2	9	8	↓ -1
Langkloof - Oos	10.4	11.1	↑ 0.8	24.4	24.2	↓ -0.2	1.7	2.1	↑ 0.4	17.5	18.4	↑ 0.9	5.1	5.4	↑ 0.3	34	37	↑ 3
Langkloof - Wes	10.2	10.7	↑ 0.6	23.9	22.4	↓ -1.5	-1.7	1.4	↑ 3.1	16.1	16.4	↑ 0.3	4.0	6.2	↑ 2.1	30	25	↓ -5
Montagu	10.7	9.2	↓ -1.5	28.7	24.0	↓ -4.7	-1.0	-1.1	↓ -0.1	19.7	18.3	↓ -1.5	3.7	2.5	↓ -1.3	7	12	↑ 5
Nuy	13.8	9.7	↓ -4.1	29.3	22.3	↓ -7.1	6.0	-1.2	↓ -7.2	19.2	18.5	↓ -0.7	9.4	2.8	↓ -6.6	13	11	↓ -2
Piketberg	10.7	10.3	↓ -0.3	23.3	24.2	↑ 0.9	3.9	0.4	↓ -3.5	14.3	18.3	↑ 4.1	7.2	4.1	↓ -3.1	52	32	↓ -20
Robertson	11.5	9.7	↓ -1.9	22.6	22.4	↓ -0.1	0.7	-0.7	↓ -1.4	18.6	17.9	↓ -0.7	5.3	3.5	↓ -1.8	1	8	↑ 7
Simondium	13.2	13.1	↓ -0.2	26.3	25.3	↓ -1.0	4.7	4.0	↓ -0.8	18.0	19.0	↑ 1.0	9.1	8.0	↓ -1.1	94	42	↓ -52
Stellenbosch	12.6	12.3	↓ -0.2	26.0	28.8	↑ 2.9	4.1	3.4	↓ -0.8	17.8	18.3	↑ 0.5	8.1	7.4	↓ -0.7	69	37	↓ -32
Tulbagh	11.4	10.2	↓ -1.2	26.3	25.4	↓ -0.8	0.7	0.7	↑ 0.0	18.5	18.8	↑ 0.3	5.5	4.3	↓ -1.2	29	30	↑ 2
Villiersdorp	12.1	11.5	↓ -0.6	25.4	23.5	↓ -2.0	1.9	2.1	↑ 0.2	17.4	17.7	↑ 0.3	6.8	6.5	↓ -0.3	24	51	↑ 26
Vrystaat	8.6	6.7	↓ -1.9	22.4	20.5	↓ -1.9	-3.5	-4.3	↓ -0.8	17.9	16.5	↓ -1.5	1.3	-0.9	↓ -2.2	10	0	↓ -10
Vyeboom	12.0	10.9	↓ -1.1	26.7	25.5	↓ -1.3	0.9	1.4	↑ 0.5	17.4	18.2	↑ 0.8	6.9	5.6	↓ -1.3	69	43	↓ -26
Waterberg	14.1	11.8	↓ -2.3	25.4	22.8	↓ -2.6	2.2	1.7	↓ -0.5	21.4	19.4	↓ -2.0	7.4	4.7	↓ -2.8	3	0	↓ -3
WBV - Noord	10.1	9.6	↓ -0.5	25.1	21.8	↓ -3.4	-0.7	0.0	↑ 0.7	17.7	18.1	↑ 0.4	3.9	3.3	↓ -0.6	12	24	↑ 11
WBV - Suid	9.1	10.0	↑ 0.9	25.3	22.7	↓ -2.6	-1.5	1.1	↑ 2.6	17.1	16.9	↓ -0.2	3.2	4.7	↑ 1.5	22	39	↑ 16
Wellington	13.5	13.4	↓ -0.1	25.7	23.4	↓ -2.3	6.2	5.5	↓ -0.6	17.5	18.1	↑ 0.6	10.0	9.3	↓ -0.7	55	15	↓ -40
Wolseley	11.6	11.2	↓ -0.3	27.5	24.9	↓ -2.6	-0.9	3.1	↑ 4.0	19.0	18.6	↓ -0.4	5.4	5.5	↑ 0.1	39	34	↓ -4

# Accumulated Richardson cold units until mid-July 2020 - 2023

Area	Accumulated Richardson units to date (15 July)								
	Start date* 2020	RICH (2020)	Start date* 2021	RICH (2021)	Start date* 2022	RICH (2022)	Start date* 2023	RICH (2023)	RICH (22 vs 23)
Elgin	12 April 2020	459	27 April 2021	458	14 April 2022	443	07 April 2023	561	↑ 118
Ermelo	31 March 2020	638	15 April 2021	731	06 April 2022	851	07 May 2023	567	↓ -284
Franschhoek	22 May 2020	227	22 June 2021	220	13 June 2022	150	15 May 2023	279	↑ 130
Greyton	12 May 2020	333	15 May 2021	267	18 May 2022	282	10 May 2023	392	↑ 110
Koue Bokkeveld	05 April 2020	619	26 April 2021	717	29 March 2022	725	07 April 2023	1043	↑ 319
Ladismith	25 May 2020	211	15 May 2021	235	23 April 2022	353	27 April 2023	565	↑ 212
Langkloof - Oos	10 May 2020	427	15 May 2021	406	21 April 2022	463	11 May 2023	434	↓ -29
Langkloof - Wes	09 June 2020	197	15 May 2021	309	18 May 2022	247	10 May 2023	652	↑ 405
Montagu	22 May 2020	249	15 May 2021	294	19 May 2022	286	07 May 2023	436	↑ 150
Nuy	12 May 2020	241	15 May 2021	190	26 May 2022	261	27 April 2023	320	↑ 60
Piketberg	09 June 2020	362	14 May 2021	523	05 May 2022	364	07 April 2023	801	↑ 437
Robertson**	12 May 2023	324	15 May 2021	291	26 May 2022	354	11 May 2023	355	↑ 2
Simondium	21 May 2020	250	15 May 2021	259	12 June 2022	151	15 May 2023	214	↑ 63
Stellenbosch	09 June 2020	156	22 June 2021	221	02 July 2022	64	14 May 2023	244	↑ 180
Tulbagh	Pre-station date	-	22 June 2021	253	13 June 2022	208	28 April 2023	445	↑ 237
Villiersdorp	12 May 2020	289	15 May 2021	261	18 May 2022	200	10 May 2023	376	↑ 176
Vrystaat	01 April 2020	718	15 April 2021	760	05 April 2022	858	09 April 2023	677	↓ -181
Vyeboom	12 May 2020	425	15 May 2021	301	18 May 2022	275	10 May 2023	344	↑ 69
Waterberg	26 May 2020	157	30 May 2021	96	31 May 2022	122	10 June 2023	123	↑ 2
WBV - Noord	27 April 2020	505	06 May 2021	472	22 April 2022	499	19 April 2023	678	↑ 179
WBV - Suid	27 April 2020	612	27 April 2021	651	14 April 2022	663	08 April 2023	902	↑ 239
Wellington	09 June 2020	159	22 June 2021	205	13 June 2022	131	24 May 2023	217	↑ 86
Wolseley	12 May 2020	321	08 May 2021	302	18 May 2022	279	30 April 2023	435	↑ 156

\*chill units should be counted from the lowermost inflection point, i.e. the lowermost or most negative turning point, of the annual accumulated chill unit curve.

\*\*Please note that the data reported for Roberston in the June report was incorrect, as the weather station had been vandalised. From this report onwards, the Bemchem Nelsrivier station will be used.

# Accumulated Infruitec cold units until mid-July 2020 - 2023

Accumulated Infruitec units to date (15 July)									
Area	Start date* 2020	INF (2020)	Start date* 2021	INF (2021)	Start date* 2022	INF (2022)	Start date* 2023	INF (2023)	INF (22 vs 23)
Elgin	12 April 2020	548	27 April 2021	536	14 April 2022	548	07 April 2023	629	↑ 82
Ermelo	31 March 2020	684	15 April 2021	746	06 April 2022	870	07 May 2023	576	↓ -294
Franschhoek	22 May 2020	290	22 June 2021	225	13 June 2022	182	15 May 2023	318	↑ 136
Greyton	12 May 2020	423	15 May 2021	398	18 May 2022	402	10 May 2023	462	↑ 60
Koue Bokkeveld	05 April 2020	728	26 April 2021	768	29 March 2022	807	07 April 2023	1077	↑ 271
Ladismith	25 May 2020	332	15 May 2021	404	23 April 2022	426	27 April 2023	611	↑ 185
Langkloof - Oos	10 May 2020	471	15 May 2021	437	21 April 2022	511	11 May 2023	466	↓ -45
Langkloof - Wes	09 June 2020	301	15 May 2021	453	18 May 2022	417	10 May 2023	694	↑ 277
Montagu	22 May 2020	314	15 May 2021	378	19 May 2022	343	07 May 2023	474	↑ 131
Nuy	12 May 2020	334	15 May 2021	319	26 May 2022	319	27 April 2023	398	↑ 79
Piketberg	09 June 2020	421	14 May 2021	697	05 May 2022	613	07 April 2023	921	↑ 308
Robertson**	12 May 2020	367	15 May 2021	382	26 May 2022	416	11 May 2023	409	↓ -7
Simondium	21 May 2020	325	15 May 2021	371	12 June 2022	205	15 May 2023	290	↑ 85
Stellenbosch	09 June 2020	190	22 June 2021	224	02 July 2022	94	14 May 2023	314	↑ 221
Tulbagh	Pre-station date	-	22 June 2021	261	13 June 2022	258	28 April 2023	468	↑ 210
Villiersdorp	12 May 2020	389	15 May 2021	405	18 May 2022	372	10 May 2023	440	↑ 68
Vrystaat	01 April 2020	746	15 April 2021	769	05 April 2022	863	09 April 2023	713	↓ -150
Vyeboom	12 May 2020	470	15 May 2021	414	18 May 2022	388	10 May 2023	386	↓ -2
Waterberg	26 May 2020	190	30 May 2021	152	31 May 2022	157	10 June 2023	146	↓ -11
WBV - Noord	27 April 2020	561	06 May 2021	539	22 April 2022	568	19 April 2023	714	↑ 147
WBV - Suid	27 April 2020	634	27 April 2021	678	14 April 2022	688	08 April 2023	926	↑ 238
Wellington	09 June 2020	205	22 June 2021	218	13 June 2022	163	24 May 2023	264	↑ 101
Wolseley	12 May 2020	385	08 May 2021	394	18 May 2022	345	30 April 2023	461	↑ 116

\*chill units should be counted from the lowermost inflection point, i.e. the lowermost or most negative turning point, of the annual accumulated chill unit curve.

\*\*Please note that the data reported for Roberston in the June report was incorrect, as the weather station had been vandalised. From this report onwards, the Bemchem Nelsrivier station will be used.

# Accumulated Chill Portions until mid-July 2020 - 2023

Accumulated Chill Portions <sup>1</sup> to date (15 July)									
Area	Start date 2020	CP <sup>1</sup> (2020)	Start date 2021	CP <sup>1</sup> (2021)	Start date 2022	CP <sup>1</sup> (2022)	Start date 2023	CP <sup>1</sup> (2023)	CP <sup>1</sup> (22 vs 23)
Elgin	06 April 2020	31	29 April 2021	31	06 April 2022	33	08 April 2023	40	↑ 7
Ermelo	18 March 2020	32	21 April 2021	36	05 April 2022	51	28 March 2023	36	↓ -15
Franschhoek	07 April 2020	17	17 May 2021	20	07 April 2022	17	12 May 2023	24	↑ 7
Greyton	07 April 2020	21	30 April 2021	23	16 April 2022	26	09 April 2023	29	↑ 3
Koue Bokkeveld	06 April 2020	30	30 April 2021	40	05 April 2022	43	12 March 2023	55	↑ 12
Ladismith	07 April 2020	19	30 April 2021	27	08 April 2022	30	09 April 2023	38	↑ 8
Langkloof - Oos	07 April 2020	-	30 April 2021	24	07 April 2022	31	10 April 2023	28	↓ -3
Langkloof - Wes	07 April 2020	23	03 April 2021	26	07 April 2022	34	27 March 2023	50	↑ 16
Montagu	26 May 2020	14	30 April 2021	21	16 April 2022	20	22 April 2023	27	↑ 7
Nuy	07 April 2020	16	17 May 2021	18	16 April 2022	24	09 April 2023	25	↑ 1
Piketberg	06 April 2020	30	29 April 2021	35	05 April 2022	36	30 March 2023	49	↑ 13
Robertson**	14 May 2020	17	18 May 2021	19	09 May 2022	22	09 April 2023	30	↑ 8
Simondium	07 April 2020	18	17 May 2021	22	07 April 2022	21	22 April 2023	21	↑ 0
Stellenbosch	07 April 2020	15	30 April 2021	21	25 April 2022	18	18 May 2023	22	↑ 4
Tulbagh	Pre-station date	-	30 April 2021	22	07 April 2022	24	21 April 2023	30	↑ 6
Villiersdorp	07 April 2020	22	29 April 2021	25	07 April 2022	26	31 March 2023	32	↑ 6
Vrystaat	18 March 2020	44	22 April 2021	37	05 April 2022	48	12 April 2023	40	↓ -8
Vyeboom	06 April 2020	30	30 April 2021	24	07 April 2022	28	08 April 2023	31	↑ 3
Waterberg	12 June 2020	8	19 May 2021	7	04 June 2022	8	17 May 2023	8	↑ 0
WBV - Noord	07 April 2020	26	08 May 2021	27	25 April 2022	27	21 April 2023	40	↑ 13
WBV - Suid	07 April 2020	25	08 May 2021	35	06 April 2022	35	21 April 2023	44	↑ 9
Wellington	26 May 2020	14	22 May 2021	15	20 May 2022	14	22 April 2023	19	↑ 5
Wolseley	07 April 2020	19	18 May 2021	21	25 April 2022	26	22 April 2023	29	↑ 3

<sup>1</sup> CP = Chill portions according to the dynamic model (Fishman *et al.*, 1987)

\*\*Please note that the data reported for Roberston in the June report was incorrect, as the weather station had been vandalised. From this report onwards, the Bemchem Nelsrivier station will be used.

# Accumulated Heat Units and Growing Degree Days until mid-July

## 2022/23

Area	1 - 15 July			1 - 15 July		
	GDD (2022)	GDD (2023)	GDD (22 vs 23)	HU (2022)	HU (2023)	HU (22 vs 23)
Elgin	12	10	↓ -2	1003	870	↓ -134
Ermelo	-16	-33	↓ -17	661	544	↓ -117
Franschhoek	46	49	↑ 3	1038	1084	↑ 46
Greyton	30	17	↓ -13	1170	919	↓ -252
Koue Bokkeveld	-8	-15	↓ -7	555	702	↑ 147
Ladismith	44	16	↓ -28	1423	1089	↓ -334
Langkloof - Oos	43	28	↓ -15	900	993	↑ 93
Langkloof - Wes	28	19	↓ -9	684	886	↑ 202
Montagu	26	5	↓ -21	1053	794	↓ -259
Nuy	25	10	↓ -15	1107	912	↓ -195
Piketberg	15	37	↑ 23	584	1102	↑ 518
Robertson	29	10	↓ -19	1048	827	↓ -221
Simondium	41	52	↑ 11	1150	1315	↑ 165
Stellenbosch	49	43	↓ -6	1178	1199	↑ 21
Tulbagh	47	23	↓ -25	1180	929	↓ -251
Villiersdorp	36	32	↓ -4	1090	986	↓ -104
Vrystaat	-18	-33	↓ -15	738	574	↓ -164
Vyeboom	35	28	↓ -7	1072	966	↓ -106
Waterberg	62	31	↓ -31	1649	1193	↓ -456
WBV - Noord	11	11	↓ -1	816	802	↓ -14
WBV - Suid	3	12	↑ 9	555	726	↑ 171
Wellington	54	56	↑ 2	1175	1336	↑ 162
Wolseley	32	31	↓ -1	948	922	↓ -26

## Stations used in this report

Area	Station
Elgin	Beaulieu
Ermelo	The big apple
Franschhoek	La Motte
Greyton	Greymor
Koue Bokkeveld	Weltevrede
Ladismith	Fontein
Langkloof - Oos	Jagersbos
Langkloof - Wes	Klein langkloof
Montagu	Derdeheuvel
Nuy	Brugplaas
Piketberg	Moutonsvalley/Heldervue
Robertson	Bemchem Nelsrivier
Simondium	Babylonstoren
Stellenbosch	Kanonkop1
Tulbagh	Waveren Berries
Villiersdorp	Villiersdorp
Vrystaat	Ametis
Vyeboom	Riviera/Graymead
Waterberg	Waterberg berries
WBV - Noord	Lushof
WBV - Suid	Loxtonia
Wellington	Kalmoesfontein
Wolseley	Platvlei

# Station replacements

AREA		CURRENT STATION			PREVIOUS STATION			FAULT INFO	
Vrystaat		Ametis			Lettie			Ametis back online	
Robertson		Bemchem Nelsrivier			MBFI Nexus Robertson			Station vandalised	