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## Temperature and Rainfall report for MID-JULY 2022 vs 2021

1 - 15 JULY																		
Area	Average Temp			MAX Temp			MIN Temp			Avg Daily MAX			Avg Daily MIN			Total Rain		
	2021	2022	22 vs '21	2021	2022	22 vs '21	2021	2022	22 vs '21	2021	2022	22 vs '21	2021	2022	22 vs '21	2021	2022	22 vs '21
Elgin	9.8	11.5	↑ 1.7	19.2	24.4	↑ 5.2	-0.6	-0.1	↑ 0.5	14.8	16.5	↑ 1.6	4.9	5.8	↑ 0.9	101	34	↓ -67
Ermelo	8.4	8.9	↑ 0.5	22.5	19.8	↓ -2.7	-8.0	-3.7	↑ 4.3	17.3	17.7	↑ 0.4	0.5	1.5	↑ 1.0	1	2	↑ 1
Franschhoek	10.7	12.5	↑ 1.8	21.3	22.4	↑ 1.2	3.2	5.6	↑ 2.4	15.6	17.2	↑ 1.6	7.2	8.8	↑ 1.6	80	56	↓ -24
Greyton	9.9	11.7	↑ 1.8	24.2	25.1	↑ 1.0	0.7	1.7	↑ 1.0	17.1	18.3	↑ 1.1	4.1	5.7	↑ 1.6	40	9	↓ -30
Koue Bokkeveld	5.0	8.3	↑ 3.3	16.6	20.1	↑ 3.5	-3.6	-2.0	↑ 1.6	11.2	14.4	↑ 3.2	0.2	3.4	↑ 3.2	110	19	↓ -92
Ladismith	8.9	11.0	↑ 2.1	23.5	25.8	↑ 2.4	-2.4	2.8	↑ 5.2	16.9	18.8	↑ 1.9	1.7	4.9	↑ 3.2	21	5	↓ -16
Langkloof - Oos	9.1	10.4	↑ 1.4	25.7	23.2	↓ -2.5	-1.9	3.0	↑ 4.9	17.8	17.2	↓ -0.6	2.1	5.2	↑ 3.1	8	9	↑ 2
Langkloof - Wes	10.1	10.5	↑ 0.3	23.8	23.6	↓ -0.2	1.7	-1.7	↓ -3.4	16.7	16.6	↓ -0.1	5.0	4.4	↓ -0.7	15	8	↓ -7
Montagu	8.3	10.7	↑ 2.4	21.8	25.7	↑ 3.9	-1.4	-0.2	↑ 1.2	16.9	19.8	↑ 2.9	1.8	4.2	↑ 2.3	33	2	↓ -31
Nuy	9.8	14.2	↑ 4.5	20.2	24.9	↑ 4.7	0.7	7.4	↑ 6.7	17.0	18.8	↑ 1.8	4.0	10.3	↑ 6.3	16	4	↓ -12
Piketberg	7.7	10.5	↑ 2.8	20.2	19.9	↓ -0.3	-1.3	4.3	↑ 5.7	14.5	13.9	↓ -0.6	2.7	7.2	↑ 4.5	133	34	↓ -100
Robertson	9.3	10.7	↑ 1.4	20.9	24.4	↑ 3.5	-0.7	0.5	↑ 1.2	16.8	19.1	↑ 2.3	3.6	3.7	↑ 0.1	29	2	↓ -28
Simondium	10.7	13.0	↑ 2.3	22.1	22.2	↑ 0.1	5.2	6.3	↑ 1.2	15.6	17.2	↑ 1.6	8.0	9.3	↑ 1.3	86	73	↓ -13
Stellenbosch	10.9	12.9	↑ 2.0	20.2	22.1	↑ 1.9	4.4	5.5	↑ 1.1	15.3	17.3	↑ 1.9	7.6	9.2	↑ 1.6	93	43	↓ -50
Tulbagh	10.2	11.8	↑ 1.6	20.5	24.2	↑ 3.7	3.7	2.6	↓ -1.1	15.6	18.1	↑ 2.5	6.8	6.2	↓ -0.5	150	25	↓ -125
Villiersdorp	10.5	12.3	↑ 1.7	21.4	22.8	↑ 1.5	2.4	2.0	↓ -0.4	15.6	17.1	↑ 1.5	5.9	7.3	↑ 1.4	65	14	↓ -51
Vrystaat	7.3	8.2	↑ 0.9	20.2	21.6	↑ 1.4	-3.0	-3.5	↓ -0.5	16.4	18.0	↑ 1.6	0.5	0.5	↑ 0.0	0	0	↓ 0
Vyeboom	11.1	12.5	↑ 1.4	18.0	22.5	↑ 4.5	0.7	2.4	↑ 1.8	15.1	16.8	↑ 1.7	7.1	8.3	↑ 1.1	116	56	↓ -61
Waterberg	14.1	13.9	↓ -0.2	26.7	23.4	↓ -3.3	3.8	2.2	↓ -1.6	22.0	21.6	↓ -0.4	7.9	6.7	↓ -1.2	0	0	↑ 0
WBV - Noord	8.2	10.3	↑ 2.1	19.2	21.5	↑ 2.3	-0.4	1.3	↑ 1.7	14.6	17.1	↑ 2.5	3.1	4.8	↑ 1.7	54	8	↓ -46
WBV - Suid	7.2	9.2	↑ 1.9	18.6	19.6	↑ 1.0	-1.3	0.0	↑ 1.2	14.2	16.3	↑ 2.1	1.7	4.1	↑ 2.4	109	14	↓ -95
Wellington	10.6	13.2	↑ 2.6	20.2	21.9	↑ 1.8	2.2	7.3	↑ 5.1	16.3	17.0	↑ 0.7	6.3	10.2	↑ 3.9	64	35	↓ -28
Wolseley	9.7	11.7	↑ 2.0	20.0	22.8	↑ 2.8	0.7	1.6	↑ 0.9	15.6	17.7	↑ 2.1	4.8	6.2	↑ 1.4	102	26	↓ -76

# Accumulated Richardson cold units until mid-July 2019 - 2022

Area	Accumulated Richardson units to date (15 Jul 2022)								
	Start date* 2019	RICH (2019)	Start date* 2020	RICH (2020)	Start date* 2021	RICH (2021)	Start date* 2022	RICH (2022)	RICH (21 vs 22)
Elgin	13 April 2019	333	12 April 2020	459	27 April 2021	458	14 April 2022	443	↓ -15
Ermelo	Pre-station date	-	31 March 2020	638	15 April 2021	731	06 April 2022	851	↑ 120
Franschhoek	03 June 2019	158	22 May 2020	227	22 June 2021	220	13 June 2022	150	↓ -70
Greyton	16 May 2019	209	12 May 2020	333	15 May 2021	267	18 May 2022	282	↑ 15
Koue Bokkeveld	19 May 2019	592	05 April 2020	619	26 April 2021	717	29 March 2022	725	↑ 8
Ladismith	21 June 2019	138	25 May 2020	211	15 May 2021	235	23 April 2022	353	↑ 118
Langkloof - Oos	15 May 2019	352	10 May 2020	427	15 May 2021	406	21 April 2022	463	↑ 58
Langkloof - Wes	21 June 2019	130	09 June 2020	197	15 May 2021	309	18 May 2022	247	↓ -62
Montagu	15 May 2019	141	22 May 2020	249	15 May 2021	294	19 May 2022	286	↓ -8
Nuy	Pre-station date	-	12 May 2020	241	15 May 2021	190	26 May 2022	261	↑ 71
Piketberg	29 May 2019	314	09 June 2020	362	14 May 2021	523	05 May 2022	364	↓ -159
Robertson	15 May 2019	198	13 May 2020	324	15 May 2021	291	05 May 2022	354	↑ 63
Simondium	30 May 2019	213	21 May 2020	250	15 May 2021	259	12 June 2022	151	↓ -108
Stellenbosch	11 June 2019	134	09 June 2020	156	22 June 2021	221	02 July 2022	64	↓ -157
Tulbagh	Pre-station date	-	Pre-station date	-	22 June 2021	253	13 June 2022	208	↓ -45
Villiersdorp	30 May 2019	148	12 May 2020	289	15 May 2021	261	18 May 2022	200	↓ -61
Vrystaat	15 April 2019	543	01 April 2020	718	15 April 2021	760	05 April 2022	858	↑ 98
Vyeboom	03 May 2019	282	12 May 2020	425	15 May 2021	301	18 May 2022	275	↓ -26
Waterberg	08 June 2019	17	26 May 2020	157	30 May 2021	96	31 May 2022	122	↑ 26
WBV - Noord	02 May 2019	495	27 April 2020	505	06 May 2021	472	22 April 2022	499	↑ 27
WBV - Suid	30 April 2019	585	27 April 2020	612	27 April 2021	651	14 April 2022	663	↑ 12
Wellington	05 June 2019	-	09 June 2020	159	22 June 2021	205	13 June 2022	131	↓ -74
Wolseley	04 June 2019	69	12 May 2020	321	08 May 2021	302	18 May 2022	279	↓ -24

\*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.

# Accumulated Infruitec cold units until mid-July 2019 - 2022

Accumulated Infruitec units to date (15 Jul 2022)									
Area	Start date* 2019	INF (2019)	Start date* 2020	INF (2020)	Start date* 2021	INF (2021)	Start date* 2022	INF (2022)	INF (21 vs 22)
Elgin	13 April 2019	430	12 April 2020	548	27 April 2021	536	14 April 2022	548	↑ 12
Ermelo	Pre-station date	-	31 March 2020	684	15 April 2021	746	06 April 2022	870	↑ 125
Franschhoek	03 June 2019	188	22 May 2020	290	22 June 2021	225	13 June 2022	182	↓ -43
Greyton	16 May 2019	286	12 May 2020	423	15 May 2021	398	18 May 2022	402	↑ 4
Koue Bokkeveld	19 May 2019	656	05 April 2020	728	26 April 2021	768	29 March 2022	807	↑ 39
Ladismith	21 June 2019	161	25 May 2020	332	15 May 2021	404	23 April 2022	426	↑ 22
Langkloof - Oos	15 May 2019	387	10 May 2020	471	15 May 2021	437	21 April 2022	511	↑ 74
Langkloof - Wes	21 June 2019	157	09 June 2020	301	15 May 2021	453	18 May 2022	417	↓ -37
Montagu	15 May 2019	228	22 May 2020	314	15 May 2021	378	19 May 2022	343	↓ -35
Nuy	Pre-station date	-	12 May 2020	334	15 May 2021	319	26 May 2022	319	↓ -1
Piketberg	29 May 2019	449	09 June 2020	421	14 May 2021	697	05 May 2022	613	↓ -84
Robertson	15 May 2019	250	13 May 2020	367	15 May 2021	382	05 May 2022	416	↑ 34
Simondium	30 May 2019	248	21 May 2020	325	15 May 2021	371	12 June 2022	205	↓ -166
Stellenbosch	11 June 2019	182	09 June 2020	190	22 June 2021	224	02 July 2022	94	↓ -131
Tulbagh	Pre-station date	-	Pre-station date	-	22 June 2021	261	13 June 2022	258	↓ -3
Villiersdorp	30 May 2019	232	12 May 2020	389	15 May 2021	405	18 May 2022	372	↓ -33
Vrystaat	15 April 2019	566	01 April 2020	746	15 April 2021	769	05 April 2022	863	↑ 94
Vyeboom	03 May 2019	360	12 May 2020	470	15 May 2021	414	18 May 2022	388	↓ -27
Waterberg	08 June 2019	59	26 May 2020	190	30 May 2021	152	31 May 2022	157	↑ 5
WBV - Noord	02 May 2019	521	27 April 2020	561	06 May 2021	539	22 April 2022	568	↑ 29
WBV - Suid	30 April 2019	470	27 April 2020	634	27 April 2021	678	14 April 2022	688	↑ 11
Wellington	05 June 2019	-	09 June 2020	205	22 June 2021	218	13 June 2022	163	↓ -56
Wolseley	04 June 2019	151	12 May 2020	385	08 May 2021	394	18 May 2022	345	↓ -49

\*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.

# Accumulated Chill Portions until mid-July 2019 - 2022

Accumulated Chill Portions <sup>1</sup> to date (15 Jul 2022)									
Area	Start date* 2019	CP <sup>1</sup> (2019)	Start date* 2020	CP <sup>1</sup> (2020)	Start date* 2021	CP <sup>1</sup> (2021)	Start date* 2022	CP <sup>1</sup> (2022)	CP <sup>1</sup> (21 vs 22)
Elgin	14 April 2019	25	06 April 2020	31	29 April 2021	31	06 April 2022	33	↑ 2
Ermelo	Pre-station date	-	18 March 2020	32	21 April 2021	36	05 April 2022	51	↑ 15
Franschhoek	15 April 2019	15	07 April 2020	17	17 May 2021	20	07 April 2022	17	↓ -3
Greyton	15 April 2019	20	07 April 2020	21	30 April 2021	23	16 April 2022	26	↑ 3
Koue Bokkeveld	14 April 2019	33	06 April 2020	30	30 April 2021	40	05 April 2022	43	↑ 3
Ladismith	16 April 2019	18	07 April 2020	19	30 April 2021	27	08 April 2022	30	↑ 3
Langkloof - Oos	02 April 2019	-	07 April 2020	-	30 April 2021	24	07 April 2022	31	↑ 7
Langkloof - Wes	15 April 2019	22	07 April 2020	23	03 April 2021	26	07 April 2022	34	↑ 8
Montagu	24 May 2019	13	26 May 2020	14	30 April 2021	21	16 April 2022	20	↓ -1
Nuy	Pre-station date	-	07 April 2020	16	17 May 2021	18	16 April 2022	24	↑ 6
Piketberg	05 April 2019	31	06 April 2020	30	29 April 2021	35	05 April 2022	36	↑ 1
Robertson	15 April 2019	22	07 April 2020	17	08 April 2021	7	20 April 2022	21	↑ 14
Simondium	15 April 2019	18	07 April 2020	18	17 May 2021	22	07 April 2022	21	↓ -1
Stellenbosch	15 April 2019	16	07 April 2020	15	30 April 2021	21	25 April 2022	18	↓ -3
Tulbagh	Pre-station date	-	Pre-station date	-	30 April 2021	22	07 April 2022	24	↑ 2
Villiersdorp	14 April 2019	20	07 April 2020	22	29 April 2021	25	07 April 2022	26	↑ 1
Vrystaat	06 April 2019	32	18 March 2020	44	22 April 2021	37	05 April 2022	48	↑ 11
Vyeboom	14 April 2019	25	06 April 2020	30	30 April 2021	24	07 April 2022	28	↑ 4
Waterberg	15 June 2019	0	12 June 2020	8	19 May 2021	7	04 June 2022	8	↑ 1
WBV - Noord	05 April 2019	30	07 April 2020	26	08 May 2021	27	25 April 2022	27	↑ 0
WBV - Suid	05 April 2019	31	07 April 2020	25	08 May 2021	35	06 April 2022	35	↑ 0
Wellington	15 April 2019	-	26 May 2020	14	22 May 2021	15	20 May 2022	14	↓ -1
Wolseley	15 April 2019	13	07 April 2020	19	18 May 2021	21	25 April 2022	26	↑ 5

\*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.

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

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

## 2021/22

Area	1 - 15 July			1 - 15 July		
	GDD (2021)	GDD (2022)	GDD (21 vs 22)	HU (2021)	HU (2022)	HU (21 vs 22)
Elgin	-3	12	↑ 14	655	1003	↑ 348
Ermelo	-21	-16	↑ 5	693	661	↓ -32
Franschhoek	25	46	↑ 21	783	1038	↑ 255
Greyton	9	30	↑ 21	903	1170	↑ 267
Koue Bokkeveld	-43	-8	↑ 35	267	555	↑ 288
Ladismith	-11	12	↑ 23	941	551	↓ -390
Langkloof - Oos	-	33	-	-	1190	-
Langkloof - Wes	15	56	↑ 41	857	1367	↑ 510
Montagu	-9	26	↑ 36	703	1053	↑ 350
Nuy	4	25	↑ 271	836	1107	↑ 271
Piketberg	-22	15	↑ 37	209	604	↑ 395
Robertson	2	16	↑ 14	826	1050	↑ 224
Simondium	16	41	↑ 25	597	1000	↑ 403
Stellenbosch	26	49	↑ 24	756	1178	↑ 423
Tulbagh	21	47	↑ 26	665	1107	↑ 442
Villiersdorp	14	36	↑ 22	820	1098	↑ 278
Vrystaat	-28	-18	↑ 10	602	738	↑ 136
Vyeboom	19	35	↑ 16	811	1072	↑ 260
Waterberg	76	62	↓ -14	1714	1649	↓ -65
WBV - Noord	-17	11	↑ 29	502	816	↑ 314
WBV - Suid	-32	-1	↑ 30	377	555	↑ 179
Wellington	25	54	↑ 29	662	1175	↑ 512
Wolseley	4	30	↑ 26	719	948	↑ 228