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Temperature and Rainfall report for JULY 2023 vs 2022

Area	JULY																	
	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	9.8	↓ -0.9	27.3	25.2	↓ -2.1	-0.8	-1.4	↓ -0.6	16.9	16.1	↓ -0.8	4.7	4.3	↓ -0.4	64	153	↑ 89
Ermelo	9.4	8.2	↓ -1.2	21.5	22.5	↑ 1.1	-3.7	-4.5	↓ -0.9	18.0	17.0	↓ -1.0	2.3	1.1	↓ -1.3	8	19	↑ 11
Franschhoek	12.6	11.5	↓ -1.1	25.9	25.2	↓ -0.7	3.8	3.1	↓ -0.7	18.0	17.1	↓ -0.9	8.8	7.2	↓ -1.5	74	136	↑ 62
Greyton	11.4	9.8	↓ -1.6	28.2	27.0	↓ -1.2	1.6	-1.0	↓ -2.6	18.6	17.5	↓ -1.1	5.3	4.3	↓ -1.0	25	79	↑ 53
Koue Bokkeveld	8.4	7.5	↓ -0.9	23.4	21.5	↓ -1.9	-3.7	-4.2	↓ -0.6	15.7	15.0	↓ -0.7	2.4	1.2	↓ -1.2	34	73	↑ 39
Ladismith	11.9	9.8	↓ -2.1	28.0	25.1	↓ -2.9	0.5	-2.0	↓ -2.6	19.2	17.4	↓ -1.8	5.4	3.1	↓ -2.3	8	17	↑ 8
Langkloof - Oos	12.4	11.0	↓ -1.4	26.5	24.3	↓ -2.2	3.5	1.4	↓ -2.1	18.9	18.1	↓ -0.8	6.8	5.6	↓ -1.2	37	106	↑ 69
Langkloof - Wes	11.8	10.1	↓ -1.7	26.7	22.4	↓ -4.3	3.3	1.4	↓ -1.9	18.9	15.6	↓ -3.4	6.5	5.9	↓ -0.6	26	69	↑ 43
Montagu	10.7	9.1	↓ -1.6	28.7	24.0	↓ -4.7	-1.0	-1.8	↓ -0.8	19.7	17.6	↓ -2.2	3.7	2.8	↓ -1.0	7	12	↑ 5
Nuy	11.2	9.9	↓ -1.3	25.9	23.6	↓ -2.3	0.2	-2.2	↓ -2.4	18.8	17.7	↓ -1.1	4.3	3.0	↓ -1.3	7	30	↑ 23
Piketberg	10.7	10.5	↓ -0.2	23.3	21.7	↓ -1.6	3.9	3.4	↓ -0.5	14.3	14.3	↑ 0.0	7.2	7.4	↑ 0.2	52	95	↑ 43
Robertson	11.2	9.9	↓ -1.3	27.7	24.4	↓ -3.3	0.5	-1.6	↓ -2.1	18.9	17.4	↓ -1.4	4.6	3.9	↓ -0.7	7	19	↑ 12
Simondium	13.2	12.1	↓ -1.1	26.3	25.3	↓ -1.0	4.7	3.0	↓ -1.7	18.0	17.1	↓ -0.9	9.1	7.7	↓ -1.4	94	114	↑ 20
Stellenbosch	12.6	11.6	↓ -0.9	26.0	24.8	↓ -1.1	4.1	3.4	↓ -0.8	17.8	16.7	↓ -1.1	8.1	7.2	↓ -0.9	69	95	↑ 26
Tulbagh	11.4	10.1	↓ -1.4	26.3	25.4	↓ -0.8	0.7	-0.5	↓ -1.1	18.5	17.5	↓ -1.0	5.5	4.5	↓ -1.0	29	56	↑ 27
Villiersdorp	12.1	11.1	↓ -1.0	25.4	23.5	↓ -2.0	1.9	0.8	↓ -1.1	17.4	16.5	↓ -0.8	6.8	6.3	↓ -0.5	24	103	↑ 78
Vrystaat	8.6	7.5	↓ -1.1	22.4	23.7	↑ 1.3	-3.5	-5.3	↓ -1.8	17.9	16.8	↓ -1.2	1.3	0.5	↓ -0.8	10	0	↓ -10
Vyeboom	11.9	10.9	↓ -1.0	26.8	25.5	↓ -1.3	1.9	1.3	↓ -0.6	17.7	16.7	↓ -1.0	6.9	6.1	↓ -0.8	32	98	↑ 65
Waterberg	14.1	12.8	↓ -1.4	25.4	26.3	↑ 1.0	2.2	1.7	↓ -0.5	21.4	20.2	↓ -1.2	7.4	5.7	↓ -1.8	3	29	↑ 26
WBV - Noord	10.1	9.3	↓ -0.8	25.1	21.8	↓ -3.3	-0.7	-0.7	↑ 0.0	17.7	16.7	↓ -1.0	3.9	3.7	↓ -0.3	12	40	↑ 28
WBV - Suid	9.1	8.8	↓ -0.3	25.3	22.7	↓ -2.6	-1.5	-1.5	↓ 0.0	17.1	15.8	↓ -1.3	3.2	3.5	↑ 0.3	22	50	↑ 82
Wellington	13.5	12.4	↓ -1.1	25.7	23.4	↓ -2.3	6.2	5.4	↓ -0.7	17.5	16.7	↓ -0.8	10.0	8.6	↓ -1.4	55	48	↓ -7
Wolseley	11.5	10.7	↓ -0.8	27.5	24.9	↓ -2.6	-0.9	-0.2	↑ 0.7	18.9	17.6	↓ -1.3	5.3	4.7	↓ -0.6	39	77	↑ 38

Accumulated Richardson cold units until 31 July 2020 - 2023

Area	Accumulated Richardson units to date (31 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	538	27 April 2021	578	14 April 2022	577	07 April 2023	739	↑ 162
Ermelo	31 March 2020	743	15 April 2021	845	06 April 2022	997	07 May 2023	663	↓ -334
Franschhoek	22 May 2020	248	22 June 2021	336	13 June 2022	231	15 May 2023	456	↑ 225
Greyton	12 May 2020	440	15 May 2021	371	18 May 2022	426	10 May 2023	564	↑ 138
Koue Bokkeveld	05 April 2020	745	26 April 2021	888	29 March 2022	873	07 April 2023	1309	↑ 436
Ladismith	25 May 2020	241	15 May 2021	322	23 April 2022	498	27 April 2023	738	↑ 240
Langkloof - Oos	10 May 2020	281	15 May 2021	339	21 April 2022	275	11 May 2023	581	↑ 306
Langkloof - Wes	09 June 2020	216	15 May 2021	440	18 May 2022	380	10 May 2023	878	↑ 498
Montagu	22 May 2020	339	15 May 2021	420	19 May 2022	413	07 May 2023	598	↑ 185
Nuy	12 May 2020	330	15 May 2021	293	26 May 2022	360	27 April 2023	465	↑ 105
Piketberg	09 June 2020	361	14 May 2021	706	05 May 2022	485	07 April 2023	1062	↑ 578
Robertson	12 May 2023	305	15 May 2021	336	26 May 2022	382	11 May 2023	482	↑ 100
Simondium	21 May 2020	293	15 May 2021	215	12 June 2022	-189	15 May 2023	346	↑ 535
Stellenbosch	09 June 2020	165	22 June 2021	327	02 July 2022	184	14 May 2023	398	↑ 214
Tulbagh	Pre-station date	-	Pre-station date	-	22 June 2021	361	28 April 2023	625	↑ 264
Villiersdorp	12 May 2020	318	15 May 2021	355	18 May 2022	295	10 May 2023	542	↑ 247
Vrystaat	01 April 2020	801	15 April 2021	853	05 April 2022	1014	09 April 2023	840	↓ -174
Vyeboom	12 May 2020	500	15 May 2021	293	18 May 2022	322	10 May 2023	487	↑ 165
Waterberg	26 May 2020	209	30 May 2021	178	31 May 2022	134	10 June 2023	153	↑ 19
WBV - Noord	27 April 2020	639	06 May 2021	630	22 April 2022	626	19 April 2023	881	↑ 256
WBV - Suid	27 April 2020	724	27 April 2021	828	14 April 2022	808	08 April 2023	1117	↑ 309
Wellington	09 June 2020	0	22 June 2021	269	13 June 2022	77	24 May 2023	342	↑ 265
Wolseley	12 May 2020	386	08 May 2021	417	18 May 2022	385	30 April 2023	622	↑ 237

*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 Infruited cold units until 31 July 2020 - 2023

Area	Accumulated Infruited units to date (31 July)								
	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	643	27 April 2021	663	14 April 2022	689	07 April 2023	812	↑ 123
Ermelo	31 March 2020	788	15 April 2021	860	06 April 2022	1016	07 May 2023	676	↓ -341
Franschhoek	22 May 2020	328	22 June 2021	347	13 June 2022	282	15 May 2023	495	↑ 214
Greyton	12 May 2020	542	15 May 2021	522	18 May 2022	555	10 May 2023	634	↑ 79
Koue Bokkeveld	05 April 2020	0	26 April 2021	1067	29 March 2022	733	07 April 2023	1331	↑ 599
Ladismith	25 May 2020	421	15 May 2021	543	23 April 2022	584	27 April 2023	784	↑ 201
Langkloof - Oos	10 May 2020	365	15 May 2021	442	21 April 2022	392	11 May 2023	613	↑ 221
Langkloof - Wes	09 June 2020	368	15 May 2021	616	18 May 2022	587	10 May 2023	922	↑ 336
Montagu	22 May 2020	412	15 May 2021	508	19 May 2022	471	07 May 2023	636	↑ 165
Nuy	12 May 2020	438	15 May 2021	430	26 May 2022	424	27 April 2023	546	↑ 123
Piketberg	09 June 2020	471	14 May 2021	901	05 May 2022	813	07 April 2023	1186	↑ 373
Robertson	12 May 2020	401	15 May 2021	450	26 May 2022	426	11 May 2023	550	↑ 124
Simondium	21 May 2020	377	15 May 2021	338	12 June 2022	292	15 May 2023	440	↑ 148
Stellenbosch	09 June 2020	262	22 June 2021	360	02 July 2022	225	14 May 2023	490	↑ 265
Tulbagh	Pre-station date	-	22 June 2021	396	13 June 2022	402	28 April 2023	648	↑ 246
Villiersdorp	12 May 2020	487	15 May 2021	545	18 May 2022	511	10 May 2023	626	↑ 115
Vrystaat	01 April 2020	829	15 April 2021	862	05 April 2022	1019	09 April 2023	875	↓ -144
Vyeboom	12 May 2020	555	15 May 2021	384	18 May 2022	259	10 May 2023	549	↑ 290
Waterberg	26 May 2020	245	30 May 2021	271	31 May 2022	176	10 June 2023	200	↑ 24
WBV - Noord	27 April 2020	694	06 May 2021	701	22 April 2022	696	19 April 2023	917	↑ 222
WBV - Suid	27 April 2020	745	27 April 2021	854	14 April 2022	833	08 April 2023	1140	↑ 308
Wellington	09 June 2020	0	22 June 2021	309	13 June 2022	166	24 May 2023	414	↑ 248
Wolseley	12 May 2020	455	08 May 2021	521	18 May 2022	460	30 April 2023	648	↑ 188

*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 31 July 2020 - 2023

Accumulated Chill Portions ¹ to date (31 July)									
Area	Start date 2020	CP ¹ (2020)	Start date 2021	CP ¹ (2021)	Start date 2022	CP ¹ (2022)	Start date 2023	CP ¹ (2023)	CP ¹ (22 vs 23)
Elgin	06 April 2020	38	29 April 2021	41	06 April 2022	43	08 April 2023	49	↑ 6
Ermelo	18 March 2020	41	21 April 2021	47	05 April 2022	58	28 March 2023	38	↓ -20
Franschhoek	07 April 2020	22	17 May 2021	28	07 April 2022	23	12 May 2023	33	↑ 10
Greyton	07 April 2020	28	30 April 2021	29	16 April 2022	34	09 April 2023	37	↑ 3
Koue Bokkeveld	06 April 2020	37	30 April 2021	57	05 April 2022	53	12 March 2023	69	↑ 16
Ladismith	07 April 2020	24	30 April 2021	36	08 April 2022	36	09 April 2023	47	↑ 11
Langkloof - Oos	07 April 2020	23	30 April 2021	25	07 April 2022	31	10 April 2023	36	↑ 5
Langkloof - Wes	07 April 2020	28	03 April 2021	36	07 April 2022	43	27 March 2023	60	↑ 17
Montagu	26 May 2020	20	30 April 2021	29	16 April 2022	28	22 April 2023	35	↑ 7
Nuy	07 April 2020	21	17 May 2021	27	16 April 2022	31	09 April 2023	33	↑ 2
Piketberg	06 April 2020	34	29 April 2021	44	05 April 2022	46	30 March 2023	60	↑ 14
Robertson	14 May 2020	23	18 May 2021	26	09 May 2022	29	09 April 2023	38	↑ 9
Simondium	07 April 2020	23	17 May 2021	18	07 April 2022	20	22 April 2023	30	↑ 10
Stellenbosch	07 April 2020	21	30 April 2021	31	25 April 2022	27	18 May 2023	30	↑ 3
Tulbagh	Pre-station date	-	30 April 2021	31	07 April 2022	32	21 April 2023	40	↑ 8
Villiersdorp	07 April 2020	28	29 April 2021	33	07 April 2022	34	31 March 2023	42	↑ 8
Vrystaat	18 March 2020	54	22 April 2021	47	05 April 2022	60	12 April 2023	48	↓ -12
Vyeboom	06 April 2020	36	30 April 2021	31	07 April 2022	0	08 April 2023	41	↑ 41
Waterberg	12 June 2020	12	19 May 2021	15	04 June 2022	11	17 May 2023	12	↑ 1
WBV - Noord	07 April 2020	33	08 May 2021	37	25 April 2022	37	21 April 2023	50	↑ 13
WBV - Suid	07 April 2020	30	08 May 2021	47	06 April 2022	44	21 April 2023	54	↑ 10
Wellington	26 May 2020	14	22 May 2021	22	20 May 2022	17	22 April 2023	28	↑ 11
Wolseley	07 April 2020	25	18 May 2021	29	25 April 2022	32	22 April 2023	40	↑ 8

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

Accumulated Heat Units and Growing Degree Days until 31 July

2022/23

Area	JULY			JULY		
	GDD (2022)	GDD (2023)	GDD (22 vs 23)	HU (2022)	HU (2023)	HU (22 vs 23)
Elgin	24	6	↓ -19	1903	1447	↓ -456
Ermelo	2	-30	↓ -32	1493	1417	↓ -76
Franschhoek	105	68	↓ -37	2290	1776	↓ -514
Greyton	61	28	↓ -34	2221	1580	↓ -641
Koue Bokkeveld	-29	-60	↓ -31	1221	976	↓ -245
Ladismith	72	8	↓ -64	2599	1783	↓ -816
Langkloof - Oos	88	58	↓ -30	2110	1876	↓ -234
Langkloof - Wes	71	23	↓ -48	1744	1397	↓ -348
Montagu	54	5	↓ -49	2137	1454	↓ -683
Nuy	48	11	↓ -37	2284	1724	↓ -561
Piketberg	23	26	↑ 3	1416	1464	↑ 48
Robertson	54	22	↓ -32	2189	1708	↓ -481
Simondium	112	75	↓ -37	2639	2065	↓ -573
Stellenbosch	91	61	↓ -31	2435	1944	↓ -491
Tulbagh	61	31	↓ -30	2259	1607	↓ -652
Villiersdorp	65	44	↓ -21	2227	1759	↓ -468
Vrystaat	-12	-42	↓ -30	1481	1304	↓ -177
Vyeboom	71	43	↓ -28	2172	1813	↓ -358
Waterberg	138	92	↓ -46	3452	2868	↓ -584
WBV - Noord	25	6	↓ -19	1729	1286	↓ -443
WBV - Suid	4	-12	↓ -16	1356	1123	↓ -233
Wellington	117	83	↓ -34	2704	2082	↓ -622
Wolseley	66	35	↓ -31	2120	1619	↓ -501

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