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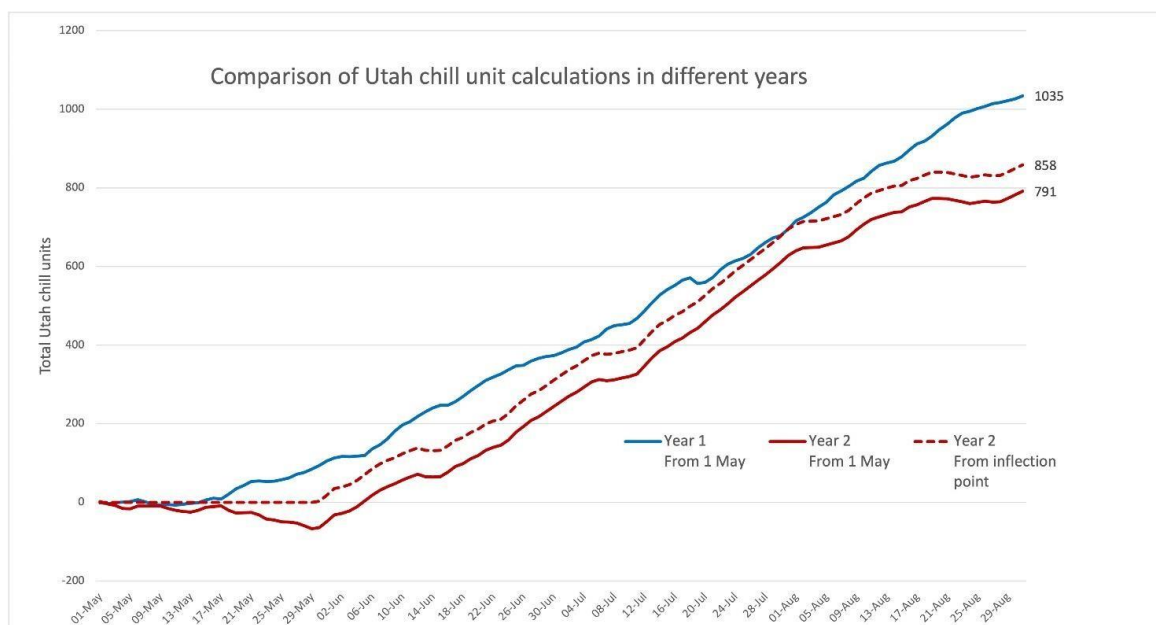


Temperature and Rainfall report for MAY 2024 vs 2023

May																		
Area	Average Temp			MAX Temp			MIN Temp			Avg Daily MAX			Avg Daily MIN			Total Rain		
	2023	2024	23 vs '24	2023	2024	23 vs '24	2023	2024	23 vs '24	2023	2024	23 vs '24	2023	2024	23 vs '24	2023	2024	23 vs '24
Avontuur	9.9	13.2	↑ 3.4	26.8	30.2	↑ 3.4	-0.5	0.3	↑ 0.8	16.8	21.8	↑ 5.0	3.4	5.4	↑ 2.0	83	3	↓ -80
Elgin	11.8	13.6	↑ 1.8	23.5	29.7	↑ 6.2	-0.5	1.9	↑ 2.4	17.7	21.1	↑ 3.4	6.3	7.3	↑ 1.0	179	51	↓ -128
Ermelo**	12.2	12.5	↑ 0.3	25.6	27.5	↑ 1.9	-0.7	0.0	↑ 0.7	20.3	23.2	↑ 2.9	6.3	3.7	↓ -2.6	95	6	↓ -89
Franschhoek	14.0	16.4	↑ 2.4	27.8	31.4	↑ 3.6	4.7	7.1	↑ 2.4	19.6	23.3	↑ 3.7	9.8	11.6	↑ 1.8	148	48	↓ -100
Greyton	13.0	15.1	↑ 2.1	30.2	33.7	↑ 3.5	1.0	4.4	↑ 3.4	19.8	23.2	↑ 3.4	7.5	8.8	↑ 1.3	189	22	↓ -167
Joubertina	12.8	17.6	↑ 4.9	29.6	32.9	↑ 3.3	2.0	3.9	↑ 1.9	19.8	24.3	↑ 4.5	7.2	8.7	↑ 1.5	52	8	↓ -44
Koue Bokkeveld	9.5	12.5	↑ 3.0	27.0	30.1	↑ 3.1	-3.0	0.1	↑ 3.1	17.5	22.1	↑ 4.6	2.5	3.9	↑ 1.4	53	19	↓ -34
Ladismith	11.7	14.8	↑ 3.1	30.6	35.0	↑ 4.4	2.1	2.9	↑ 0.8	19.4	24.1	↑ 4.7	5.3	6.4	↑ 1.1	62	10	↓ -52
Misgund	10.4	12.9	↑ 2.4	27.3	30.5	↑ 3.3	-0.1	-0.3	↓ -0.2	18.0	22.5	↑ 4.5	3.9	5.4	↑ 1.5	83	2	↓ -81
Montagu	12.5	14.7	↑ 2.2	32.3	35.6	↑ 3.3	-0.4	1.6	↑ 2.0	20.8	25.3	↑ 4.5	5.7	6.0	↑ 0.3	58	7	↓ -51
Nuy	13.6	15.5	↑ 1.9	30.8	32.7	↑ 1.9	3.5	2.2	↓ -1.3	20.0	24.9	↑ 4.9	8.3	7.0	↓ -1.3	52	6	↓ -46
Piketberg**	12.1	14.0	↑ 1.9	27.1	28.6	↑ 1.5	4.2	3.9	↓ -0.3	16.2	21.0	↑ 4.8	8.6	7.8	↓ -0.8	58	22	↓ -36
Robertson**	13.2	15.8	↑ 2.6	31.9	32.6	↑ 0.7	0.8	2.8	↑ 2.0	21.1	23.7	↑ 2.6	7.1	9.0	↑ 1.9	63	30	↓ -33
Simondium	14.4	17.0	↑ 2.6	27.0	31.2	↑ 4.2	5.9	7.8	↑ 1.9	19.5	23.4	↑ 3.9	10.2	12.1	↑ 1.9	162	33	↓ -129
Stellenbosch	13.9	16.2	↑ 2.3	27.1	31.9	↑ 4.8	5.8	7.8	↑ 2.0	19.3	23.4	↑ 4.1	9.6	10.9	↑ 1.3	137	33	↓ -104
Tulbagh	12.6	14.7	↑ 2.1	29.3	32.7	↑ 3.4	0.7	4.9	↑ 4.2	20.0	23.7	↑ 3.7	6.9	7.7	↑ 0.8	26	38	↑ 12
Villiersdorp	13.0	15.9	↑ 2.9	28.6	30.4	↑ 1.8	3.4	4.2	↑ 0.8	18.6	22.7	↑ 4.1	8.4	9.7	↑ 1.3	115	10	↓ -105
Vrystaat	11.9	14.0	↑ 2.1	24.8	28.2	↑ 3.4	-1.4	0.9	↑ 2.3	19.1	24.8	↑ 5.7	5.3	5.2	↓ -0.1	84	0	↓ -84
Vyeboom	13.2	15.3	↑ 2.1	28.0	30.0	↑ 2.0	2.1	4.8	↑ 2.7	18.5	22.5	↑ 4.0	8.5	9.5	↑ 1.0	126	34	↓ -92
Waterberg	16.7	17.7	↑ 1.0	28.3	29.8	↑ 1.5	5.1	7.4	↑ 2.3	23.7	26.4	↑ 2.7	10.8	9.6	↓ -1.2	58	6	↓ -52
WBV - Noord	11.6	13.9	↑ 2.3	29.1	34.9	↑ 5.8	0.9	2.5	↑ 1.6	19.7	24.7	↑ 5.0	5.3	5.3	↑ 0.0	38	7	↓ -31
WBV - Suid	10.9	12.8	↑ 1.9	29.2	32.7	↑ 3.5	-0.5	1.8	↑ 2.3	19.7	23.3	↑ 3.6	4.3	4.7	↑ 0.4	65	17	↓ -48
Wellington**	14.8	16.1	↑ 1.3	28.6	32.7	↑ 4.1	7.1	6.7	↓ -0.4	19.5	24.7	↑ 5.2	10.7	10.0	↓ -0.7	66	28	↓ -38
Wolseley**	13.0	16.4	↑ 3.4	30.8	32.7	↑ 1.9	0.9	5.4	↑ 4.5	20.6	24.1	↑ 3.5	7.0	9.4	↑ 2.4	53	44	↓ -9

Correctly calculating Utah (Richardson) chill units

In our industry, Utah chill units have been calculated from the arbitrary date of 1 May. This is incorrect as according to the model, 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. In warm areas and in a warm season, the inflection point might occur much later than 1 May while in cold seasons and in cold regions, it might occur before May. The figure below illustrates how different calibrations of the Utah model can affect the reported accumulated chill.



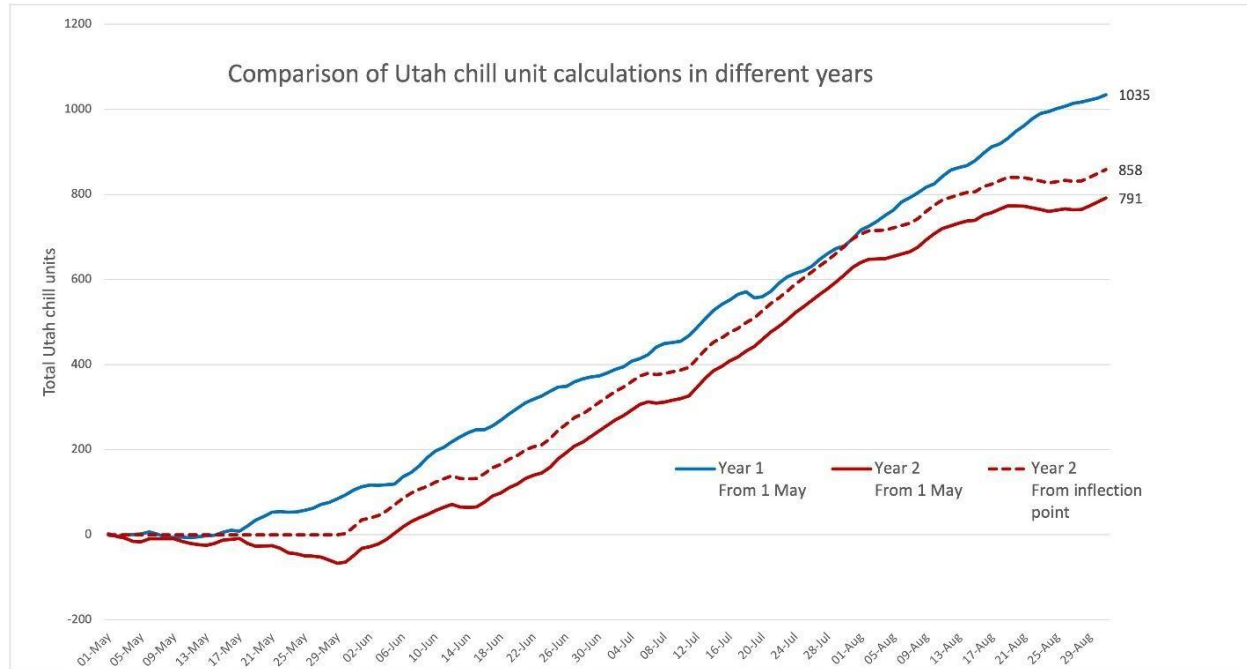
In the figure above, the blue solid line represents year 1, where the model has been correctly calibrated, so units only begin to accumulate from the inflection point, which happens to be 1 May. The red solid line, however, indicates that in year 2, chill units are also accumulated from 1 May, but the inflection point only occurs at the end of May. The result is an accumulation of negative chill units during May of year 2, which incorrectly reduces the reported data. The red dashed line indicates the accumulated chill units in year 2 if the model is correctly calibrated to start counting chill at the actual inflection point which is at the end of May. For more information, view issue 13 of the Fresh Quarterly - <https://www.freshquarterly.co.za/publication/fresh-quarterly-issue-13-june-2021/>

Thanks to Dr Nigel Cook for contributing the data set for this chart.

Since winter 2022, we've been reporting Utah chill units from the inflection point, as specified by the model. Since inflection points can only be determined in retrospect, this means that we cannot yet report chill unit accumulation because some regions/stations might still reach their inflection points. When reporting chill units in a subsequent report, we will also include a table with re-calculated chill units for previous years so that comparison between years is possible.

Die korrekte bepaling van Utah (Richardson) koue-eenhede

In ons bedryf is Utah koue-eenhede tot op hede vanaf die arbitrêre datum van 1 Mei bepaal. Dit is verkeerd, want volgens die model, moet koue-eenhede eers vanaf die onderste of mees negatiewe draaipunt van die jaarlikse geakkumuleerde koue-eenhede kurwe bepaal word. In warm areas en in 'n warm seisoen kan die draaipunt heelwat na 1 Mei bereik word terwyl in koue seisoene en areas dit voor Mei kan gebeur.



In die grafiek hierbo verteenwoordig die blou lyn jaar 1, waar die model korrek gekalibreer is sodat koue-eenhede eers begin akkumuleer vanaf die draaipunt, wat in die geval 1 Mei was. Die soliede rooi lyn verteenwoordig die 2de jaar waar koue-eenhede ook vanaf 1 Mei begin akkumuleer het, alhoewel die draaipunt eers teen einde Mei was. Laasgenoemde lei tot die akkumulering van negatiewe koue-eenhede gedurende Mei wat gevolglik die gerapporteerde data verkeerdlik afwaarts aanpas. Die rooi stippellyn dui die koue-eenhede aan wat geakkumuleer word gedurende jaar 2 indien die model korrek gekalibreer word sodat koue eers vanaf die werklike draaipunt begin akkumuleer. Vir meer inligting, sien uitgawe 13 van die Fresh Quarterly - <https://www.freshquarterly.co.za/publication/fresh-quarterly-issue-13-june-2021/>.

Dankie aan Dr Nigel Cook vir die bydra tot die datastel vir die grafiek.

Sedert winter 2022 het ons Utah koue-eenhede korrek gerapporteer volgens die model, vanaf die draaipunt. Aangesien die draaipunt net terugskouend bepaal kan word, beteken dit dat ons nog nie koue-eenhede kan rapporteer nie want ons weet nie of al die areas/stasies reeds hul draaipunte bereik het nie. Ons sal in 'n volgende verslag waarin koue-eenhede gerapporteer word, ook 'n tabel met die herberekende koue-eenhede van vorige jare insluit om vergelyking tussen jare moontlik te maak.

Stations used in this report

Area	Station
Avontuur (Langkloof)	Avontuur
Elgin	Beaulieu
Ermelo	The Big Apple
Franschhoek	La Motte
Greyton	Greyton
Joubertina (Langkloof)	Joubertina
Koue Bokkeveld	Weltevrede
Ladismith	Fontein
Misgund (Langkloof)	JGS
Montagu	Derdeheuvel/ Baden
Nuy	Brugplaas
Piketberg	Buglers Post
Robertson	La Colline
Simondium	Simonsvlei Landgoed
Stellenbosch	Kanonkop1
Tulbagh	Waveren Berries
Villiersdorp	Villiersdorp
Vrystaat	Ametis
Vyeboom	Riviera
Waterberg	Waterberg berries
WBV - Noord	Lushof
WBV - Suid	Loxtonia
Wellington	Olyvenboom
Wolseley	Wolseley Berries

Station replacements

AREA	CURRENT STATION	PREVIOUS STATION	FAULT INFO
Piketberg	Buglers Post	Heldervue	Station offline
Wolseley	Wolseley berries	Platvlei	Station offline
Wellington	Olyvenboom	Rotsvas	Request for closer station