

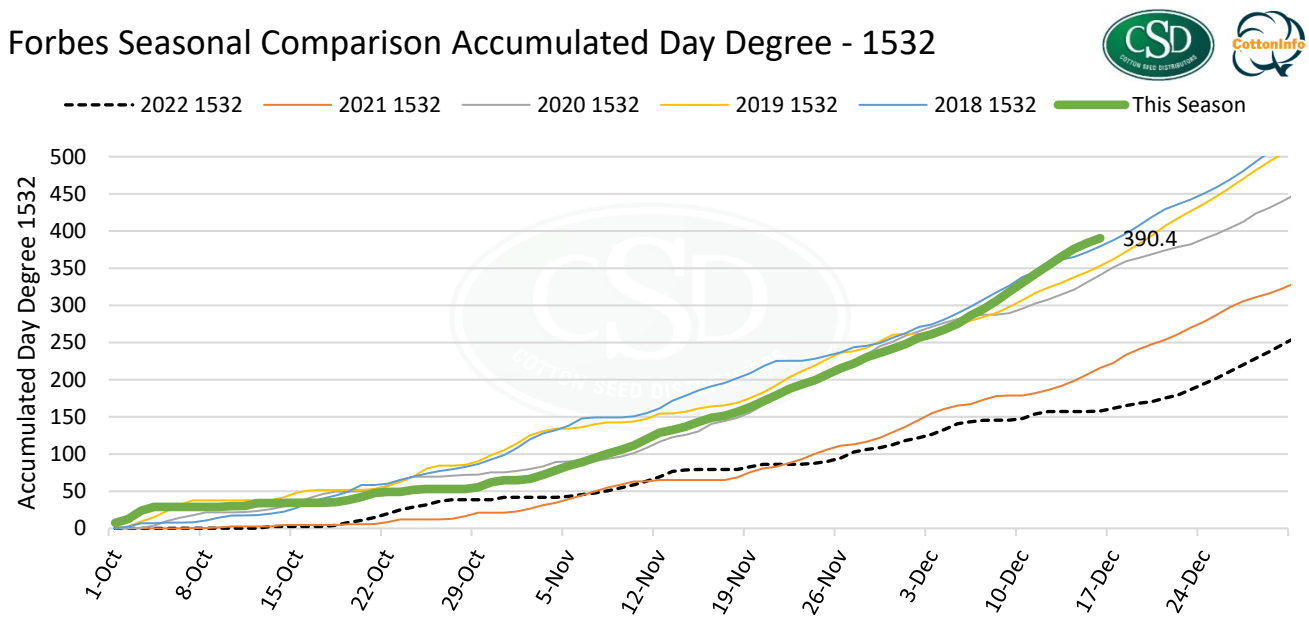


Macquarie crop check

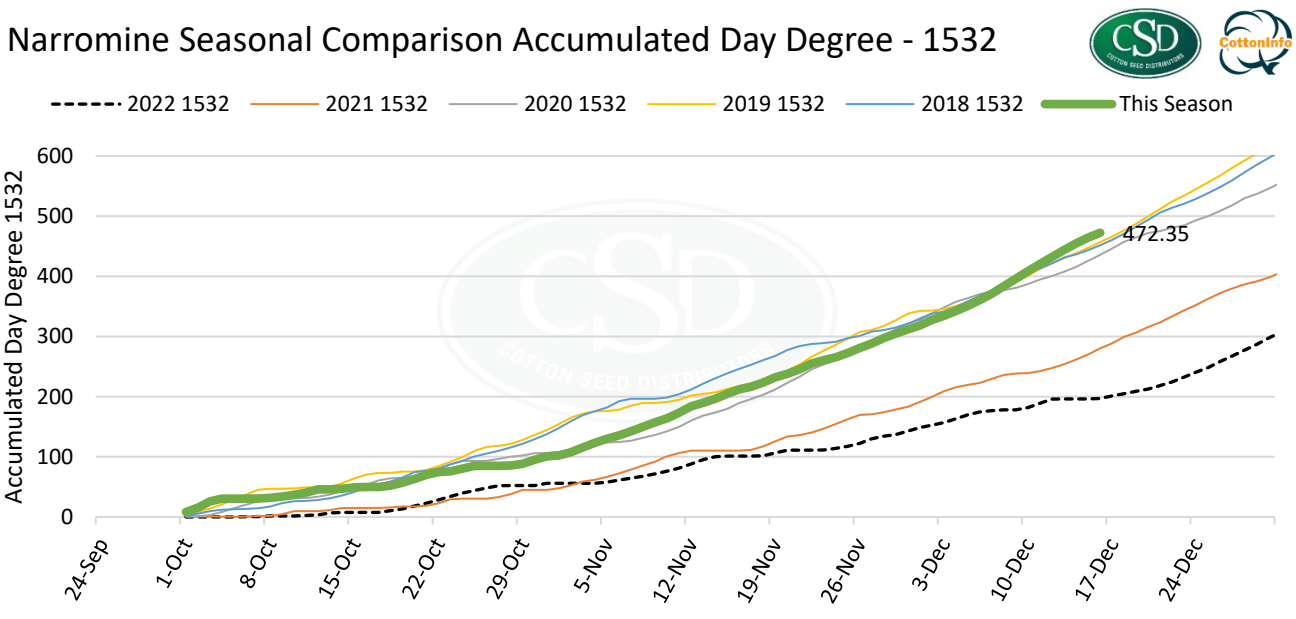
DATE – Monday 18th December 2023

Please note Day Degree Calculations are in 1532 format to better reflect the DD the plant can use. Please email with any questions or further information you would like to see. Based on the 1st of October planting

Forbes Seasonal Comparison Accumulated Day Degree - 1532



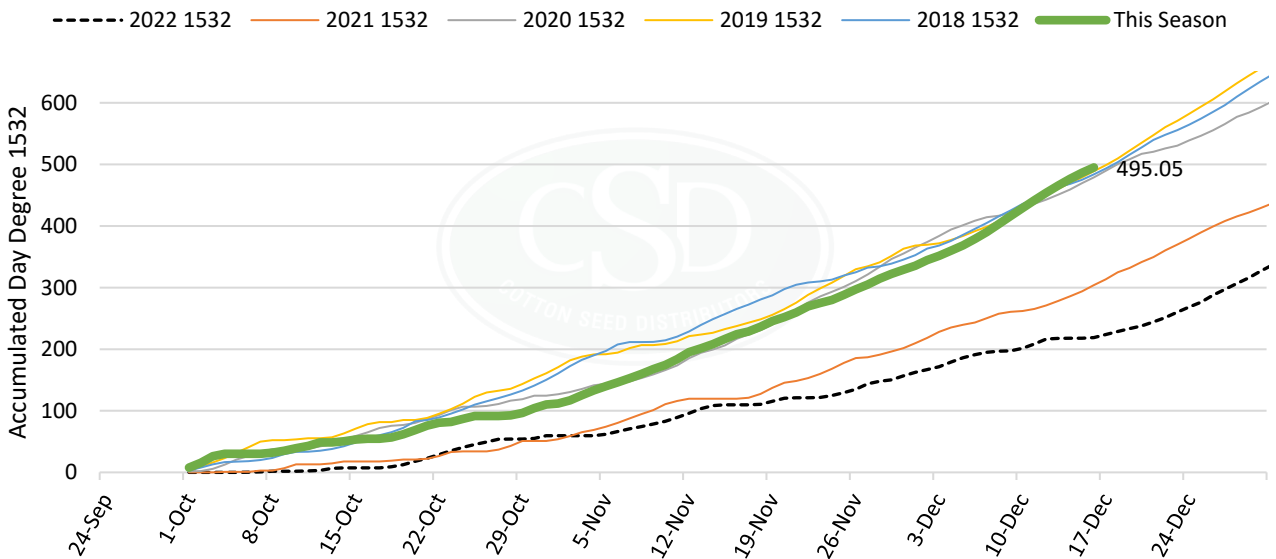
Narromine Seasonal Comparison Accumulated Day Degree - 1532



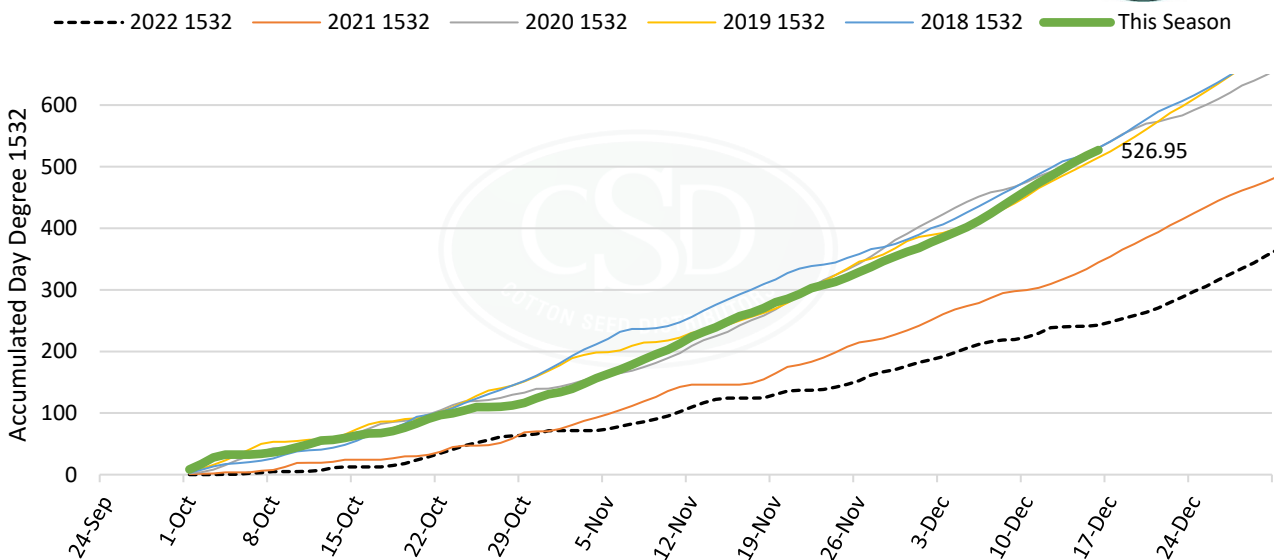


Macquarie crop check

Trangie Seasonal Comparison Accumulated Day Degree - 1532



Warren Seasonal Comparison Accumulated Day Degree - 1532





Macquarie crop check

Seasonal Day Degree and historical data sourced from Cotton Seed Distributors Day Degree Calculator found at www.csd.net.au/ddc. For more specific day degree and crop management detail for your farm, field and variety check out CottonTracka® at www.cottontracka.com.au

AREA	MACQUARIE - Trangie Nevertire Warren Narromine Forbes
Crop Stage	<ul style="list-style-type: none"> • 10 – 16 nodes 20- 60 cm (Trangie – north of Warren) • 9 – 12 nodes (Forbes) • 16 nodes first flower evident in September planted fields – with 8 Nodes above White flower (Warren)
Water use	<ul style="list-style-type: none"> • The majority of first in crop irrigation are complete – North of Warren second irrigation is happening prior to Christmas. • 1st irrigation or 2nd in crop watering now, running Nitrogen with irrigation (Forbes) • Crops that received rainfall are now getting first in crop irrigation.
Insects/Beneficial	<ul style="list-style-type: none"> • Very low pressure, sporadic Mirid and GVB observed. • No concerns at this stage, no pressure odd ADB and Green Mirid – high retention %90 (Forbes) • Finding a few Red Banded Shield bugs and odd Green Vege Bug • Retention has been very good across most of the valley. • High retention happening with first and second position squares on top five fruiting branches (Warren)
Weeds	<ul style="list-style-type: none"> • No concerns majority of farms have completed the second OTT RR. • The Glyphosate/ Dicamba plus Biffo looks like it will have a fit for single stem fleabane control. • Low pressure light new germination of Baryn yard grass, heliotrope, bladder Ketmia (Forbes). • Very good results on second application of OTT – Clethodim used in some field with a good result.
Disease	<ul style="list-style-type: none"> • Starting to see some light areas of Alternaria but it is very low incidence and severity. • Roots and plants have grown through the early disease symptoms present



Macquarie crop check

Comments

- Retention all 80% plus, 5 -10 fruiting branches. Suggest early season thrip damage has delayed early squaring.
- First Variable rate Mepiquat 3 week of December on some fields.
- The Xtend varieties hold squares on the 6th and 7th node and look good. All the cotton is powering away with the heat. Getting nodes every 2 – 2.7 days. Day Degree accumulation for the same period is like the 2015 after the heat in the las few weeks (Forbes).
- Red soils ahead of grey soils
- Warren end of the valley ahead of Narromine end.

TRANGIE RESEARCH STATION AWS											
1 st Oct – 16 th Dec	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	10 year mean
Base 12	869.1	547.3	639.7	847.8	847.5	796.3	776.2	706	903	923.4	785.6
DD1532	495.1	218.9	304.1	479.1	489.1	484	450	338.7	554.3	525.4	433.9
Cold shock day ($\leq 11^{\circ}\text{C}$)	22	32	29	21	17	10	15	33	10	22	21.1
Days above 36°C	15	0	1	12	13	4	4	10	15	19	9.3
Nights above 25°C	3	0	0	1	1	0	0	0	0	3	0.8
Days above 40°C	4	0	0	5	1	0	1	1	1	4	1.7
Total rainfall (mm)	94	199.7	142.2	56	24.8	137.6	166	136.2	130.2	46.2	113.3
Total radiation (MJ/m ²)	1835.4	1741	1665.6	1801.6	1993.2	1810.3	1877.6	1833	1938.8	1851.2	1834.8
Average temperature (°C)	22.7	18.1	19.3	22.5	22.7	22.2	21.7	20.1	23.6	23.4	21.6

Forbes Muddy Water											
1 st Oct - 16 th Dec	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	10 year mean
Base 12	786.8	470.1	537.5	713.2	734	710.1	697.6	619.5	807.6	804.6	688.1
DD1532	390.4	157.8	215.9	340.9	353.2	379.5	344.8	259.5	452.5	408.7	330.3
Cold shock day ($\leq 11^{\circ}\text{C}$)	33	41	38	39	36	26	29	48	23	34	34.7
Days above 36°C	13	0	1	6	8	3	3	5	9	13	6.1
Nights above 25°C	0	0	0	0	0	0	0	0	0	1	0.1
Days above 40°C	3	0	0	3	1	0	0	0	2	2	1.1
Total rainfall (mm)	139.2	279.8	207.8	128.4	22.4	139.1	203.2	92.7	64.4	98.9	137.6
Total radiation (MJ/m ²)	1778.1	1699.3	1624.7	1771.9	1940.9	1761.3	1813.4	1763.4	1855.7	1830.8	1784
Average temperature (°C)	21	17	17.8	20.3	20.5	20.6	20.2	18.5	22	21.3	19.9



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Mumblebone Warren	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	10 year mean
Base 12	893.5	568.3	676.8	892.8	879.3	844.6	822.7	758.2	956	965.2	825.7
DD1532	527	242.8	344.7	530.1	514.9	530.7	498.7	379.7	609.3	567.1	474.5
Cold shock day ($\leq 11^{\circ}\text{C}$)	19	30	27	15	14	7	10	33	3	17	17.5
Days above 36°C	16	0	1	13	15	5	7	13	17	20	10.7
Nights above 25°C	0	0	0	3	2	0	0	1	0	2	0.8
Days above 40°C	3	0	0	5	2	0	2	2	2	5	2.1
Total rainfall (mm)	88.4	218.4	152.8	79.4	29.2	76.6	161.8	48.1	87.8	43.4	98.6
Total radiation (MJ/m ²)	1893.1	1800.8	1686.3	1818.5	1993.4	1844	1887.3	1881.8	1941.3	1897.6	1864.4
Average temperature ($^{\circ}\text{C}$)	23.2	18.5	20	23.3	23.1	22.9	22.5	20.9	24.4	24.1	22.3

NARROMINE AIRPORT											
01 Oct - 16 Dec	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	10 year mean
Base 12	844.3	523.5	606	795.9	819.8	764	751.2	684.7	872.6	890	755.2
DD1532	472.4	197	280.3	435.7	456.9	451.6	423.8	319	533.5	498.7	406.9
Cold shock day ($\leq 11^{\circ}\text{C}$)	23	34	31	21	18	15	17	38	9	23	22.9
Days above 36°C	13	0	0	12	11	3	3	11	11	17	8.1
Nights above 25°C	0	0	0	0	0	0	0	1	0	2	0.3
Days above 40°C	3	0	0	3	1	0	0	0	1	3	1.1
Total rainfall (mm)	103.6	184.1	234.8	136.1	56.8	156.8	143.7	134.5	149.4	66.9	136.7
Total radiation (MJ/m ²)	1835.6	1717.7	1645.8	1752.4	1968.5	1818.6	1831.9	1795.3	1942.3	1861.4	1817
Average temperature ($^{\circ}\text{C}$)	22.3	17.8	18.9	21.8	22.2	21.7	21.3	19.7	23.2	22.9	21.2

Source: csd.net.au Day Degree Calculator

Seasonal Day Degree and historical data sourced from Cotton Seed Distributors Day Degree Calculator found at www.csd.net.au/ddc. For more specific day degree and crop management detail for your farm, field and variety check out CottonTracka® at www.cottontracka.com.au

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