



Darling Downs crop check

DATE – Thursday 21st December 2023 CC3

AREA	Darling Downs
Crop Stage	<ul style="list-style-type: none"> • 7-14 nodes • Emerging – 13 nodes • 2 leaf – 16 nodes • 12-18 nodes early flowering • 2-13 nodes • 6-15 nodes
Irrigation	<ul style="list-style-type: none"> • None yet • Starting flood and overhead this week • Early Oct plant has started, the balance will start in the New Year if we don't receive rain • Keeping irrigation up to cool plants • Starting next week
Insects/Beneficial	<ul style="list-style-type: none"> • Large numbers of Red and blue beetles, and lady beetles • Mirid nymphs getting around • Odd vegie bug • Good number of spiders • Brown stink bugs have appeared in the last week
Weeds	<ul style="list-style-type: none"> • Vines and glyphosate resistant grass • Ryncosia, FTRG and resistant BYG • Barnyard becoming a problem • Red pig weed, nut grass, black pig weed and bladder ketmia • Polymeria, sesbania peachvine, FTRG
Disease	<ul style="list-style-type: none"> • Minimal • Some vert • Fusarium and BRR



Darling Downs crop check

Comments

- Hot and dry
- Generally crop growing ok
- Side dressing started before irrigation
- In crop soil tests of flood pks indicate high N losses, likely due to extended time required to wet up during first irrigation
- While the cotton loves the heat, I do not!!!!
- Growing about 2 nodes a week
- Good retention
- Pix applications have started
- Low levels of 24D damage and Starane damage found
- Merry Christmas to all





Darling Downs crop check

DALBY AIRPORT

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Date range: 10 October, 2023 to 19 December, 2023 (71 days).

[Summary](#) [Seasonal comparison](#)

	2023	2022	2021	2020	2019	10 year mean
Base 12	852.5	635.4 ▼	748.5 ▼	871.9 ▲	909.9 ▲	809.7 ▼
DD1532*	529.2	337.3 ▼	476.1 ▼	534.9 ▲	532.0 ▲	493.6 ▼
Cold shock day ($\leq 11^{\circ}\text{C}$)	11	22 ▲	8 ▼	9 ▼	13 ▲	10.0 ▼
Days above 36°C	12	2 ▼	0 ▼	17 ▲	22 ▲	9.2 ▼
Nights above 25°C	0	0	0	0	0	0.0
Days above 40°C	0	0	0	4 ▲	3 ▲	0.9 ▲
Total rainfall (mm)	147.4	110.5 ▼	390.8 ▲	110.6 ▼	19.4 ▼	149.7 ▲
Total radiation (MJ/m^2)	1774.1	1656.2 ▼	1613.5 ▼	1698.2 ▼	1936.8 ▲	1731.2 ▼
Average temperature ($^{\circ}\text{C}$)	23.8	20.5 ▼	22.4 ▼	24.1 ▲	24.5 ▲	23.2 ▼

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Climate observations and data are obtained via the State of Queensland SILO patched point dataset.



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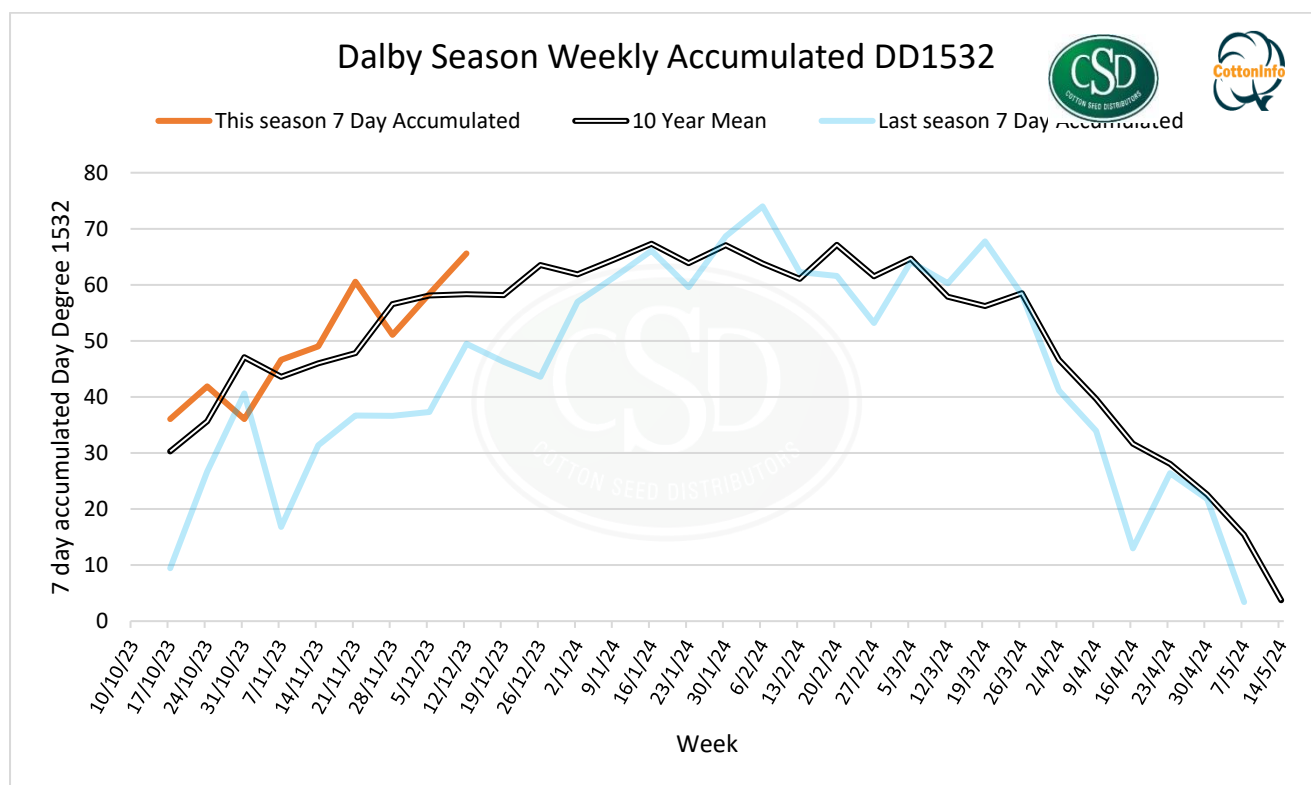
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Information when you need it



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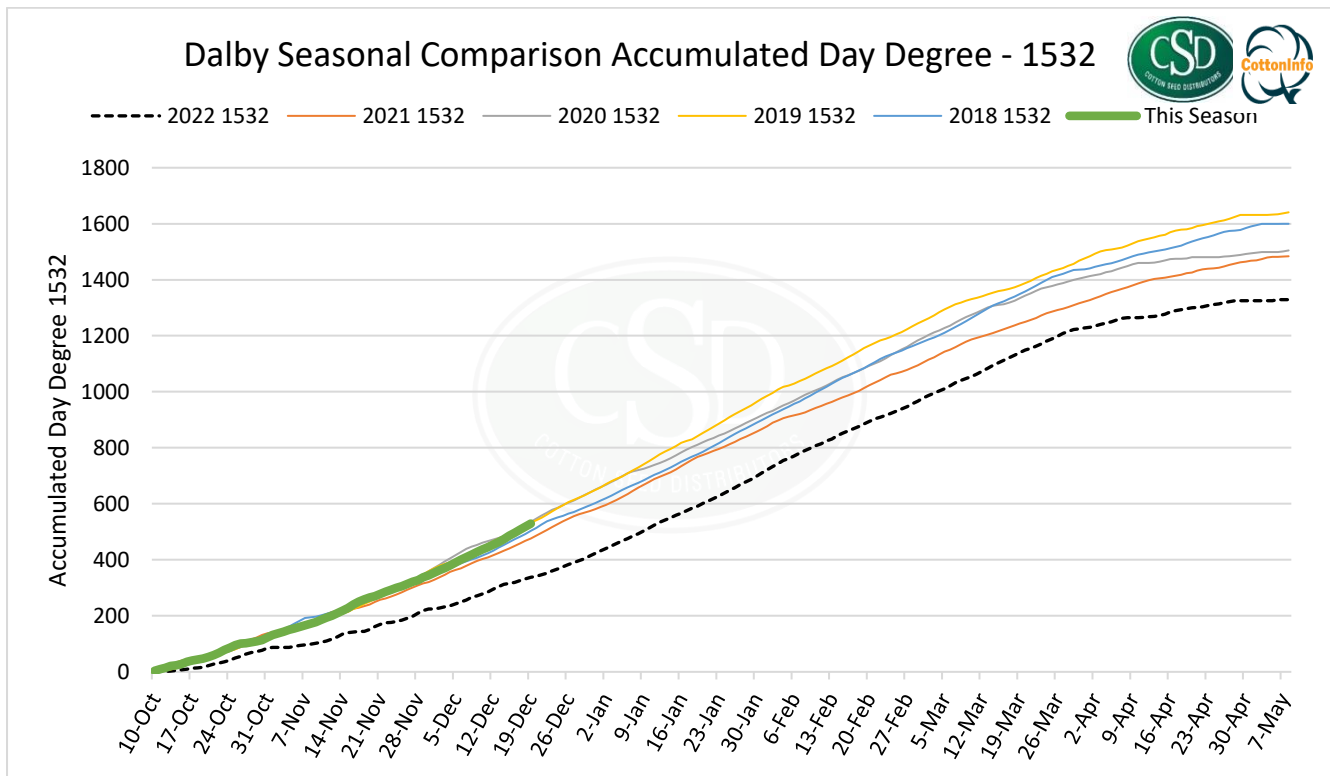
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Darling Downs crop check

BROOKSTEAD POST OFFICE

Date range: 10 October, 2023 to 20 December, 2023 (72 days).

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Summary

Seasonal comparison

	2023	2022	2021	2020	2019	10 year mean
Base 12	829.0	608.4 ▼	719.0 ▼	841.5 ▲	882.4 ▲	784.5 ▼
DD1532*	510.4	310.1 ▼	442.9 ▼	512.2 ▲	516.2 ▲	474.3 ▼
Cold shock day ($\leq 11^{\circ}\text{C}$)	8	29 ▲	9 ▲	8	16 ▲	10.6 ▲
Days above 36°C	12	0 ▼	0 ▼	12	20 ▲	7.7 ▼
Nights above 25°C	0	0	0	0	0	0.1 ▲
Days above 40°C	0	0	0	1 ▲	1 ▲	0.3 ▲
Total rainfall (mm)	77.2	198.2 ▲	414.4 ▲	122.2 ▲	28.6 ▼	157.9 ▲
Total radiation (MJ/m^2)	1754.5	1698.6 ▼	1598.6 ▼	1729.9 ▼	1959.3 ▲	1749.6 ▼
Average temperature ($^{\circ}\text{C}$)	23.3	19.9 ▼	21.8 ▼	23.5 ▲	23.9 ▲	22.7 ▼

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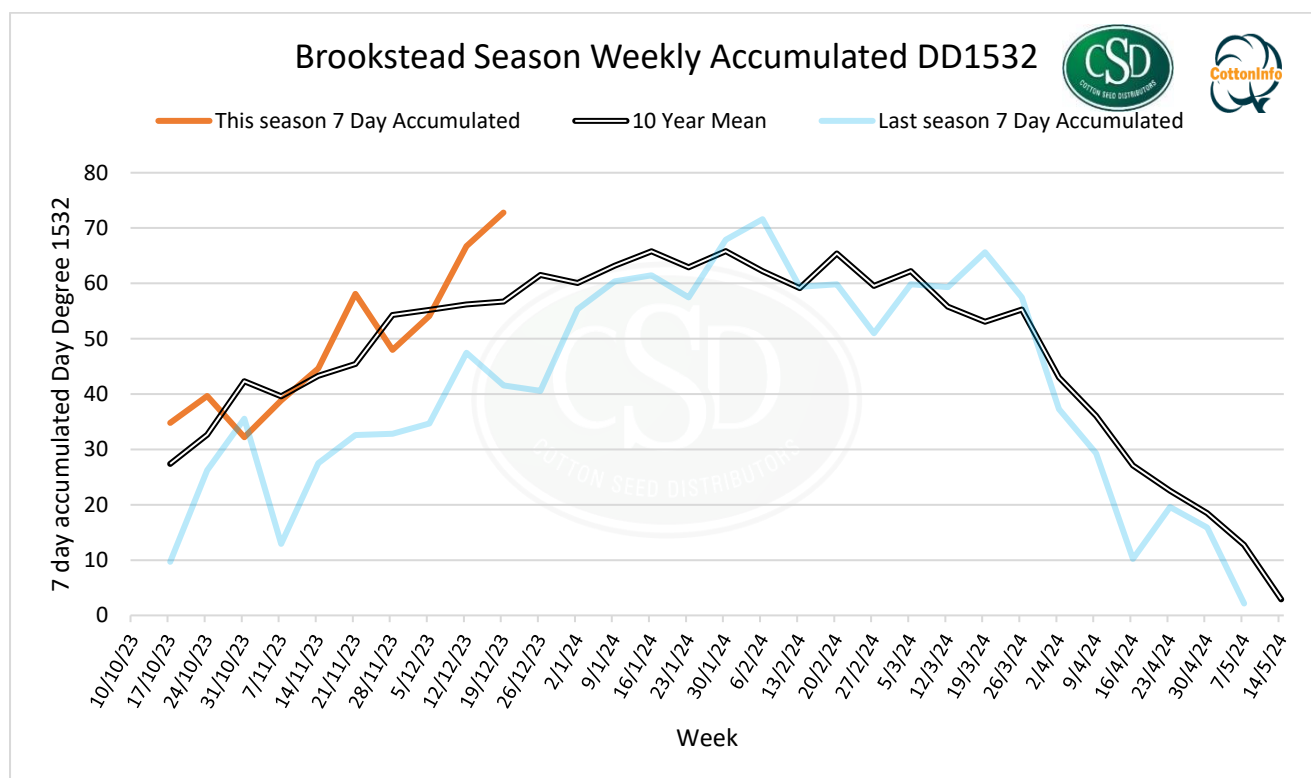
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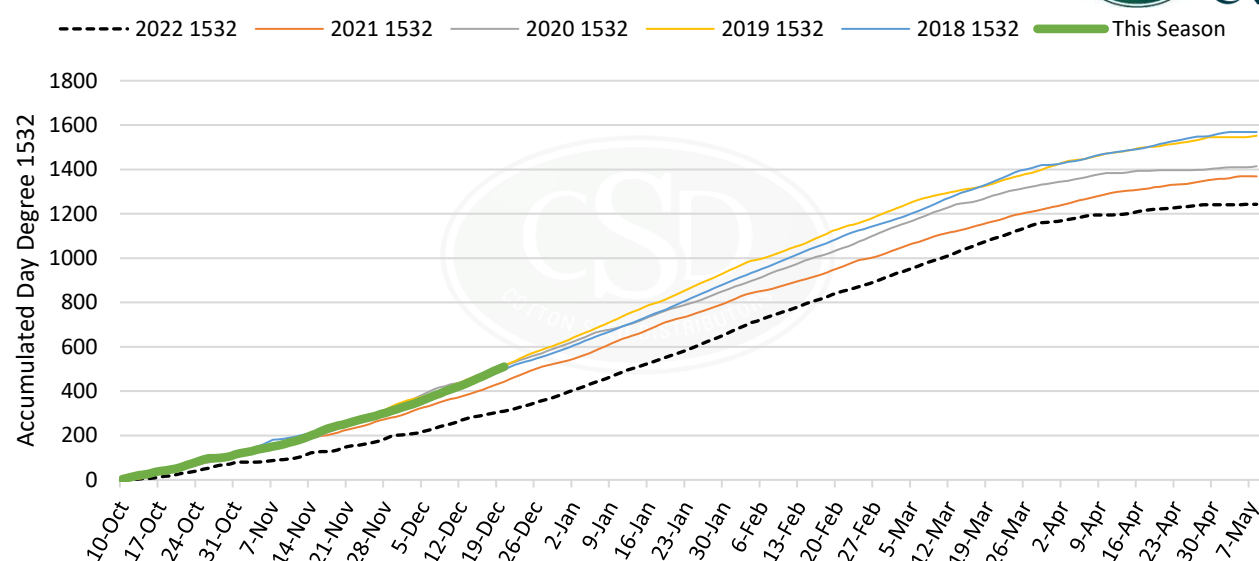


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Darling Downs crop check

Brookstead Seasonal Comparison Accumulated Day Degree - 1532



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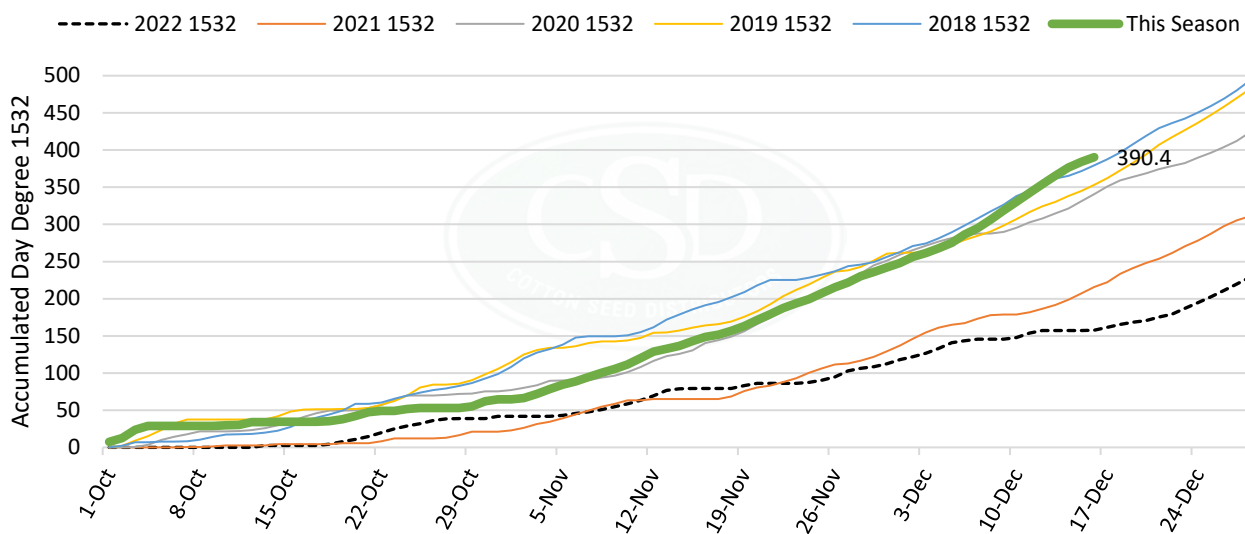


Macquarie crop check

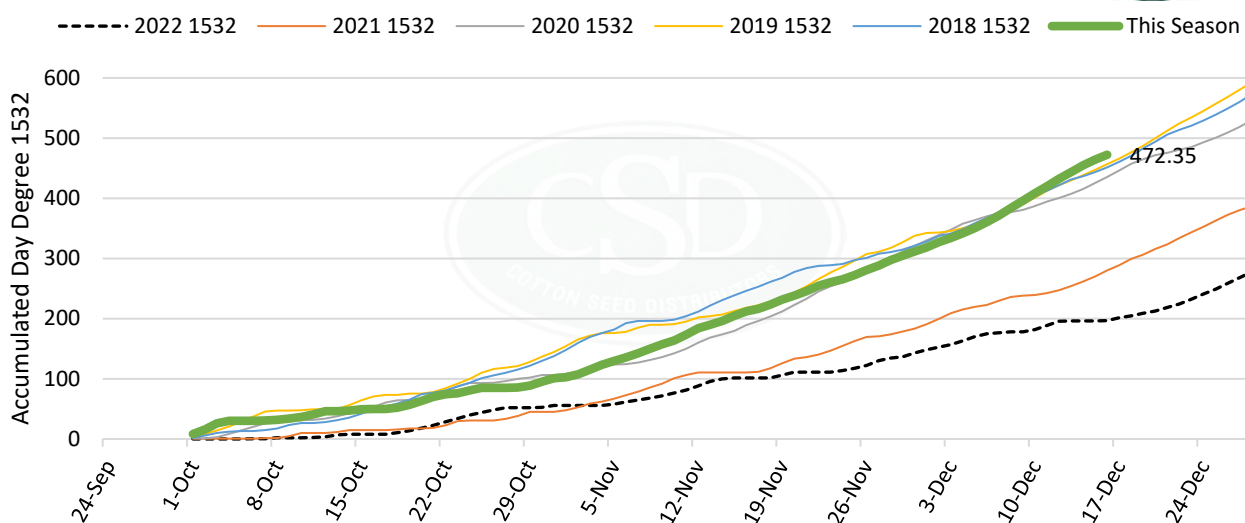
DATE – Monday 18th December 2023

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



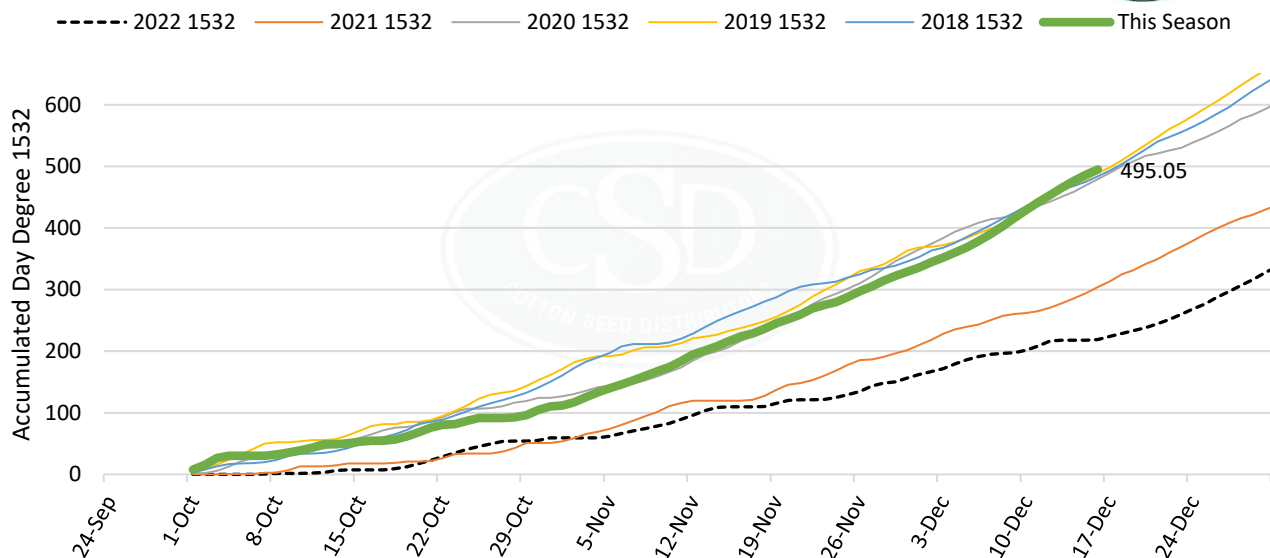
Narromine Seasonal Comparison Accumulated Day Degree - 1532



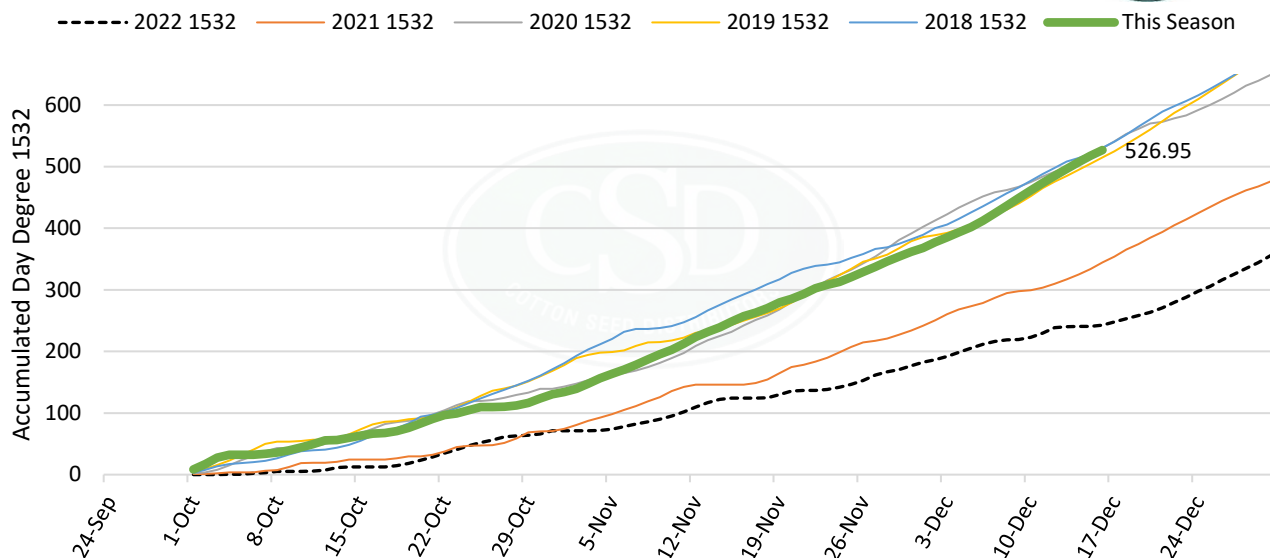


Macquarie crop check

Trangie Seasonal Comparison Accumulated Day Degree - 1532



Warren Seasonal Comparison Accumulated Day Degree - 1532





Macquarie crop check

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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"> • Majority of fist in crop irrigation is complete – North of Warren second irrigation is happing 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 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 looking 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 last 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



Macquarie crop check

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/m2)	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

1st Oct – 16th Dec

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/m2)	1893.1	1800.8	1686.3	1818.5	1993.4	1844	1887.3	1881.8	1941.3	1897.6	1864.4
Average temperature (°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/m2)	1835.6	1717.7	1645.8	1752.4	1968.5	1818.6	1831.9	1795.3	1942.3	1861.4	1817
Average temperature (°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

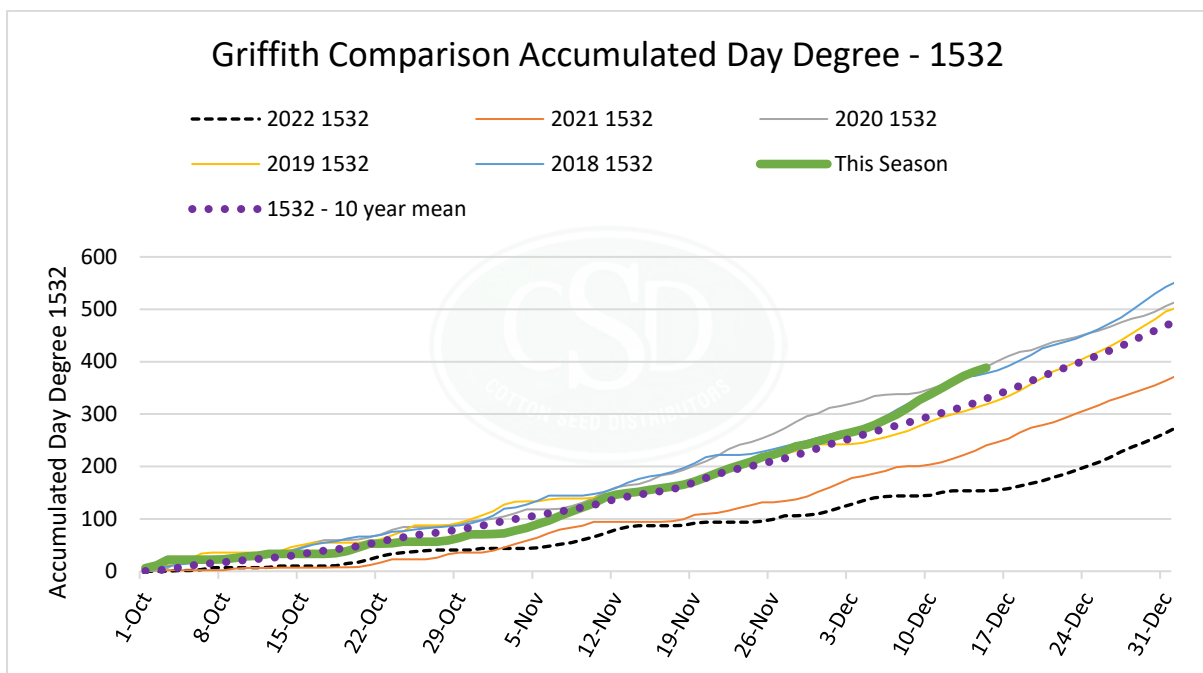
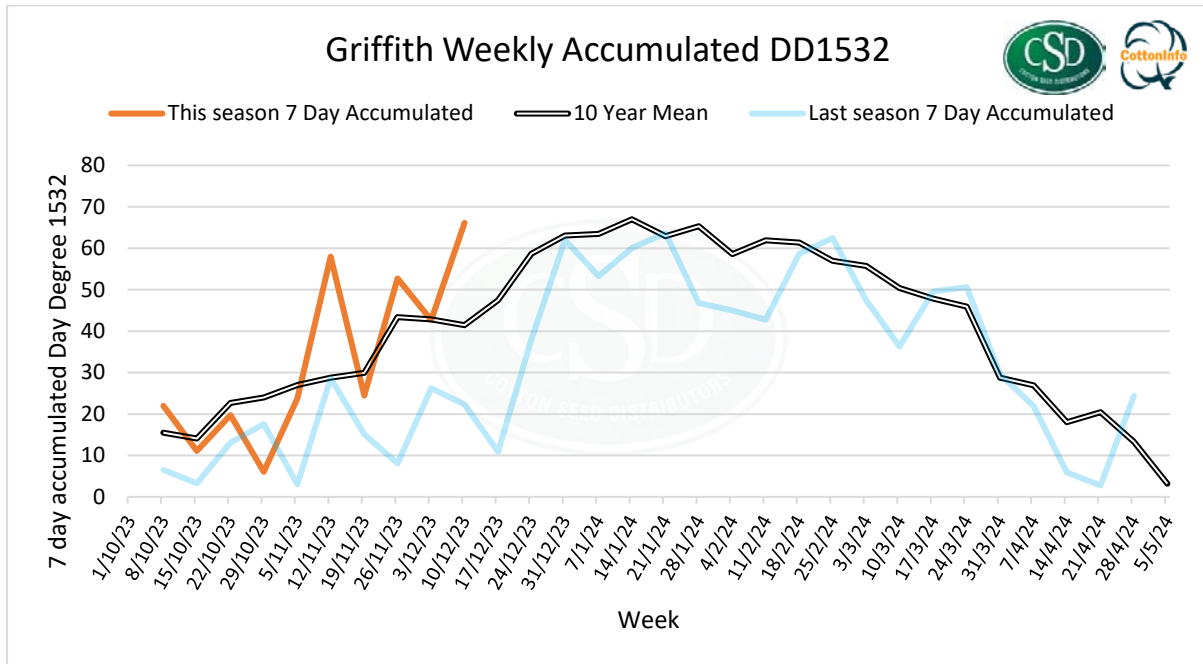
Seasonal Day Degree and historical data sourced from Cotton Seed Distributors Day Degree Calculator found at www.csd.net.au/ddc. For more specific day degree and crop management detail for your farm, field and variety check out CottonTracka® at www.cottontracka.com.au

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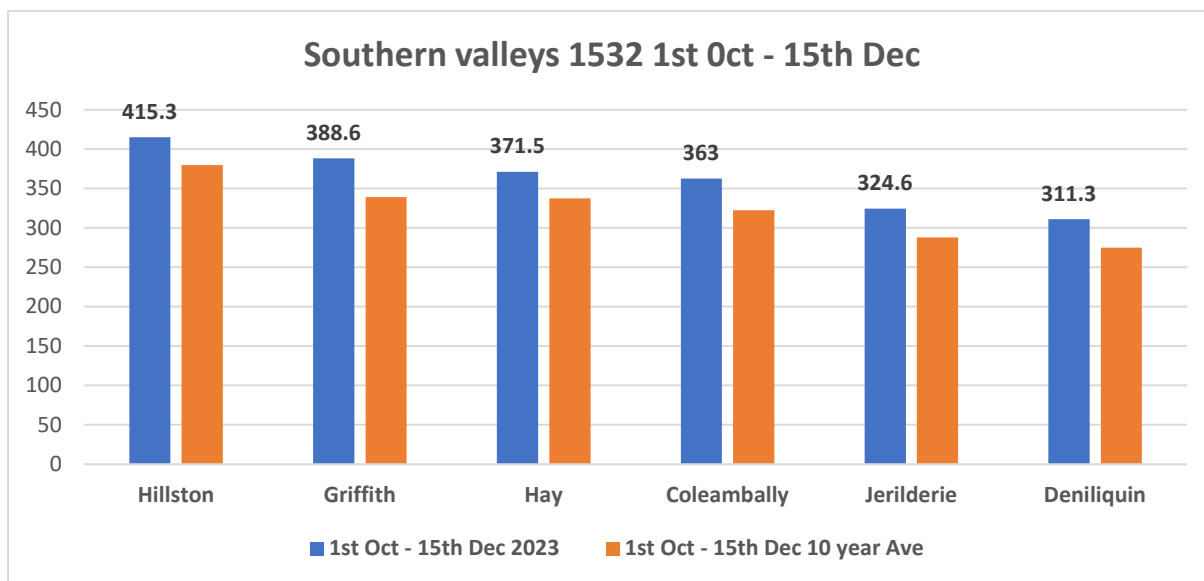
Southern NSW crop check

15th December 2023

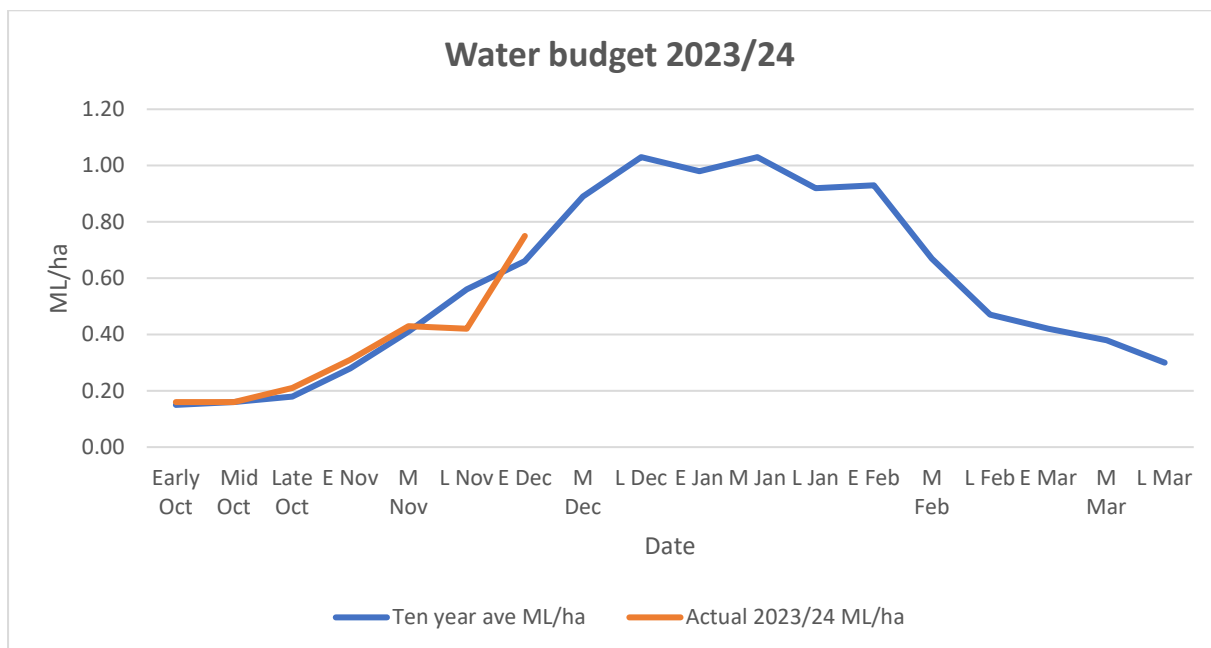




Southern NSW crop check



On average all locations are running at 12 % above 10 year average for day degrees.





Southern NSW crop check

Crop Stage	<ul style="list-style-type: none"> • 8 to 15 nodes • Most at 12 – 14 nodes • Majority fruiting at node 6 to 8 • Replant 3 nodes • Most fields two nodes ahead of last season
Insects/Beneficials	<ul style="list-style-type: none"> • The odd mirid present but still quiet • Odd hot spots of flea beetles • High beneficial/predatory numbers
Weeds	<ul style="list-style-type: none"> • High pressure after wet seasons and flooding • Up to 2nd glyphosate application
Disease	<ul style="list-style-type: none"> • Soil pathogen pressure has eased with heat
Comments	<ul style="list-style-type: none"> • Rapid growth rates some fields 3 nodes in a week • First mepiquat applications are being planned. • Tracking well • Heat seeing crop pick up where water timing has been good • Some light to major herbicide drift damage • Hail damage on some crops

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Gwydir crop check

8th December 2023

Day Degree

Table 1: Seasonal Information based on 20th October planting date (Source: [Cotton Seed Distributors](#))

MOREE AERO

Download

Date range: 20 October, 2023 to 8 December, 2023 (50 days).

Summary Seasonal comparison

	2023	2022	2021	2020	2019	10 year mean
Base 12	638.1	466.2 ▼	559.9 ▼	692.6 ▲	624.9 ▼	618.0 ▼
DD1532*	412.9	268.7 ▼	351.3 ▼	429.3 ▲	386.1 ▼	388.4 ▼
Cold shock day ($\leq 11^{\circ}\text{C}$)	2	9 ▲	8 ▲	5 ▲	5 ▲	4.9 ▲
Days above 36°C	9	0 ▼	2 ▼	19 ▲	14 ▲	9.1 ▲
Nights above 25°C	1	0 ▼	0 ▼	1	0 ▼	0.8 ▼
Days above 40°C	1	0 ▼	0 ▼	6 ▲	1	2.1 ▲
Total rainfall (mm)	117.2	216.2 ▲	188.8 ▲	77.8 ▼	35.0 ▼	108.3 ▼
Total radiation (MJ/m ²)	1257.7	1218.7 ▼	1141.9 ▼	1305.8 ▲	1353.8 ▲	1260.3 ▲
Average temperature (°C)	24.7	21.0 ▼	22.9 ▼	25.7 ▲	24.3 ▼	24.2 ▼

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Gwydir crop check

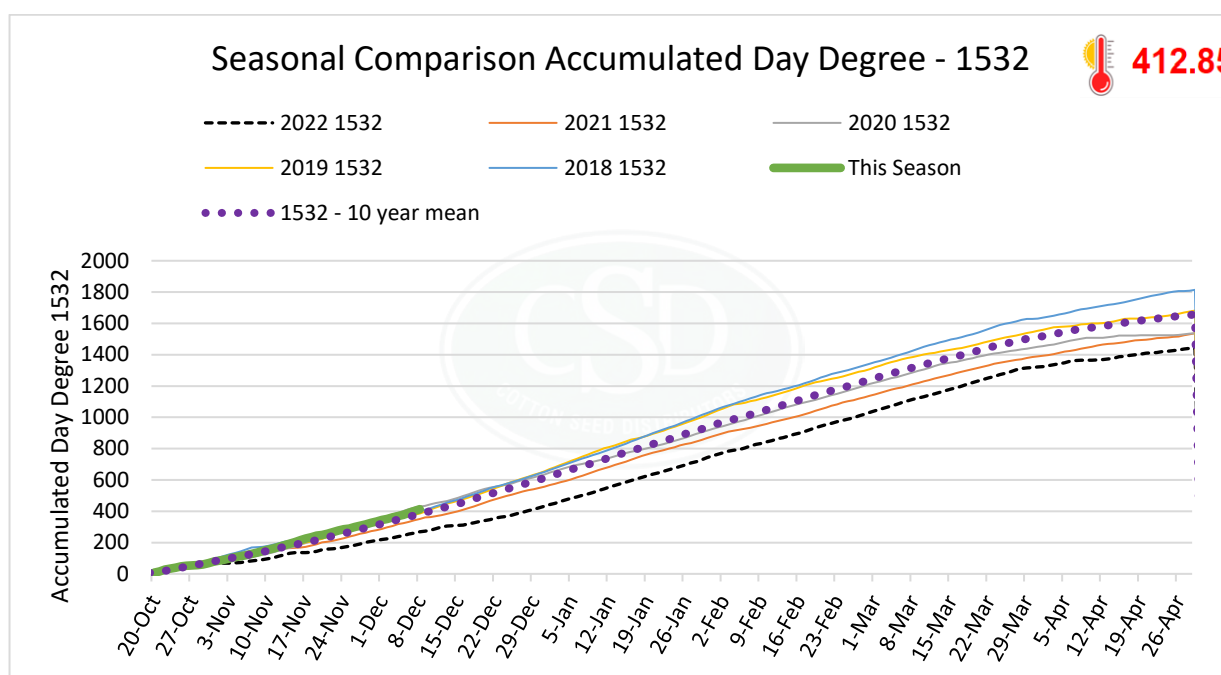


Figure 1: Day Degree comparison using the DD 1532, planting date 20/10/2023 Source www.csd.net.au/ddc

AREA	Gwydir Valley
Crop Stage	Irrigated Cotton: <ul style="list-style-type: none"> Majority of crops around 3 leaf, some early plant (Sept plant) 12 nodes and first squares Cool throughout October and difficult to get consistent conditions Early growth has been slow Some replant Majority of the irrigated cotton was in last 2 weeks of October.
Irrigation	<ul style="list-style-type: none"> Water up has used a lot of water, fields drying away quickly with recent warm and windy conditions



Gwydir crop check

Insects/Beneficial	<ul style="list-style-type: none"> • High level thrips in the area and sprays reported. • Some zeal has gone out, so mites active on some fields
Weeds	<ul style="list-style-type: none"> • Barn Yard Grass, Peachvine • 1st OTT round up sprays started
Spray Drift	<ul style="list-style-type: none"> • WAND Inversion towers for identifying “Hazardous Inversions” are up and running https://app.wand.com.au/ • Satacrop to identify sensitive crops areas https://satacrop.com.au
Disease	<ul style="list-style-type: none"> • Black root rot • Rhizoctonia • Fusarium
Comments	

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