CottonInfo **Information** *when you need it*

Gwydir crop check

10th February 2023

Day Degree

Table 1: **Seasonal Information based on 10th November planting date (Source: Cotton Seed Distributors)**

	2022	2021	2020	2019	2018	10 year mean
Base 12	1170.5	1251.8 ▲	1373.4 ▲	1529.7 ▲	1487.7 ▲	1389.4 ▲
DD1532*	751.5	824.2 ▲	903.5 ▲	976.4 ▲	980.9 ▲	907.2 ▲
Cold shock days (≤ 11°C)	10	5 ▼	1 ▼	3 ▼	1 ▼	2.7 ▼
Days above 36°C	11	18 ▲	29 ▲	57 ▲	43 ▲	33.5 ▲
Nights above 25°C	1	0 ▼	1	21 ▲	10 ▲	6.9 ▲
Days above 40°C	0	0	6 ▲	14 ▲	10 ▲	6.8 ▲
Total rainfall (mm)	171.4	308.4 ▲	226.8 ▲	163.2 ▼	79.2 ▼	139.2 ▼
Total radiation (MJ/m^2)	2189.8	2037.1 ▼	2114.8 ▼	2240.2 ▲	2340.5 ▲	2037.3 ▼
Average temperature (°C)	24.4	25.4 ▲	26.8 ▲	28.4 ▲	28.0 ▲	26.9 ▲

* Experimental calculation.

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

Accumulated day degree 'targets' after seed imbibed

Cotton development	DD Base 12** (Industry standard)	Experimental DD 1532
Emergence	80	50
First square	505^	339
First flower	777^	584
First open boll	1527^	1077

^ Please note that DD Base 12 targets to first square, first flower and first open boll will increase by 5.2 DD for EACH cold shock event - please adjust your target accordingly.

Targets relate to specific developmental events.

** **Source:** Australian Cotton Production Manual 2019 (page 8).

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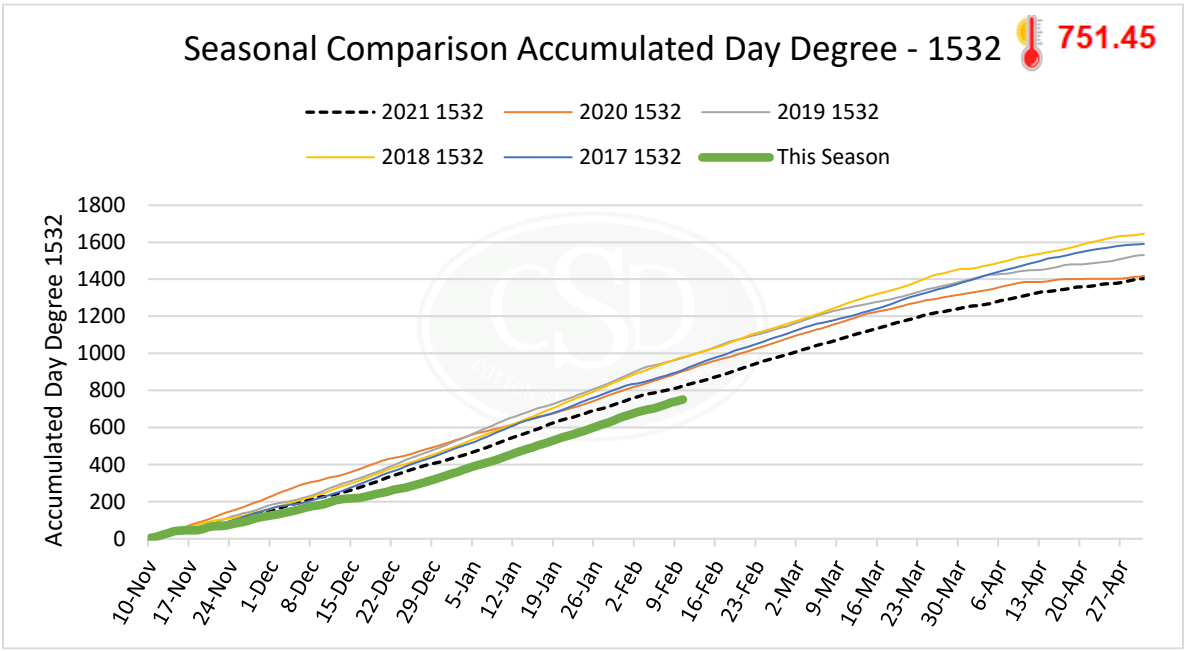

Figure 1: Day Degree comparison using the DD 1532, planting date 10/11/22 Source www.csd.net.au/ddc

AREA	Gwydir Valley
Crop Stage	**Irrigated Cotton:** • Irrigated: 20-26 nodes • Dryland: 9-26 nodes, big spread with split germinations and planting dates. *"Fruitloads in general at 80% retention (whole plant), 87.5% top 5"* *"Dryland has cutout in shallow soils, 5-9 NAWF in deep soils and wider rows"* *"Dryland crops are between 13-22 nodes and 3-7 NAWF"* *"Early crops are cutting out, dryland needs rain"*
Irrigation	• Majority crop have had 4 or 6th irrigations completed. *"6th completed, 4 to go"*

SUNDOWN PASTORAL CO.

2022 Bayer Australian Cotton Grower of the Year

FIELD DAY

10am – 3pm
Tues 21 February 2023
at Keytah, Moree

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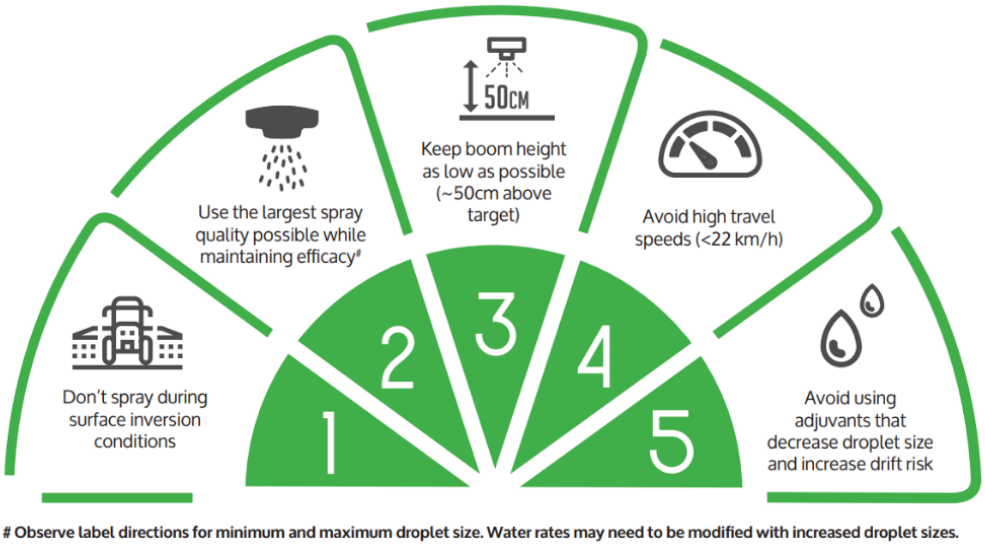
Insects/Beneficial	• Mirids and Apple Dimpling Bug quiet • Mirids quiet. • SLW starting to build, but generally low numbers at present ○ • Migration of SLW into fields closer to Mungindi, closely monitoring • Beneficials in good numbers "plenty of them" • BSB, RSB and GVB are all active. • Aphids are active in hotspots. Cotton Bunchy Top reported in some fields. *"Frogs abundant!"* *"Brown Stink Bug, GVB and red banded shield bugs increasing, but nothing sprayed yet"* *"Very low number of SLW in dryland"* *"Beneficials – good numbers of spiders, lady beetles, red-blue beetles, damsel bugs and lacewings".* *"A few Rutherglen bugs getting around"* *"Early crops with large canopies are building with SLW nymph number increasing and hatching"* *"Mites have been a problem since emergence".*
Weeds	• Fleabane persisting • Peach vine is the main weed germinating • Had another flush after last weeks rain "*With fleabane persisting need to reinstate chipping, interrow cultivation or shield spraying!"*
Spray Drift	• Still some badly impacted fields and new events occuring SOS (Stop Off Target Spraying) Groups are active and Mungindi Cropping Group and Gwydir SOS have joined forces again and currently rolling out a media blitz and intense social media campaign on the new WAND inversion tower technology and spray application best practice.

Gwydir crop check

Spray Drift	***What we need from you is. . .*** *Could you please follow their facebook and twitter sites so you can like and share through your networks so we get the greatest reach.* ***SOS Gwydir*** *Facebook: SOS GWYDIR FB* *Twitter: https://twitter.com/sosgwydir @SOSGwydir* ***Mungindi Cropping Group*** *Facebook: MCG FB* *Twitter: https://twitter.com/mungindicrop@mungindicrop* • Follow the SOS 5 Commandments for spray application • WAND Inversion towers for identifying "Hazardous Inversions" are up and running https://app.wand.com.au/ • Use Satacrop to identify sensitive crops areas before spraying https://satacrop.com.au
Disease	• Vert, FOV are evident, particularly in back to back fields

SOS 5 Commandments:



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Gwydir crop check

Sophie Venz from McGregors looking at the XtendFlex variety trial with Stuart McFadyen, CSD.

Unfortunately, most of Stuart's Gwydir trials this year have been impacted with spray drift. This trial just needs a good drink!

A Dryland Research field day will be held at Ingle Plains at the end of March.

Two very different Sicot 606B3F plants (HD and TD). What a difference poor drainage makes.

Thanks to all the Gwydir crop consultants for providing the information for this weeks crop check.

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Seasonal Day Degree and historical data is 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