



Gwydir crop check

18th December 2022

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	387.6	443.1 ▲	604.2 ▲	554.6 ▲	486.7 ▲	511.9 ▲
DD1532*	228.3	286.1 ▲	386.7 ▲	337.5 ▲	324.4 ▲	327.9 ▲
Cold shock days (≤ 11°C)	9	5 ▼	1 ▼	3 ▼	1 ▼	2.6 ▼
Days above 36°C	0	0	19 ▲	22 ▲	1 ▲	9.6 ▲
Nights above 25°C	0	0	1 ▲	2 ▲	0	0.9 ▲
Days above 40°C	0	0	6 ▲	4 ▲	1 ▲	2.1 ▲
Total rainfall (mm)	10.8	160.4 ▲	61.8 ▲	30.6 ▲	72.8 ▲	54.4 ▲
Total radiation (MJ/m ²)	920.4	806.5 ▼	938.4 ▲	996.0 ▲	938.2 ▲	852.1 ▼
Average temperature (°C)	21.8	23.4 ▲	27.9 ▲	26.5 ▲	24.8 ▲	25.4 ▲

* Experimental calculation.

General guide only; not comprehensive or specific technical advice. Circumstances vary from farm to farm. To the fullest extent permitted by law, CSD expressly disclaims all liability for any loss or damage arising from reliance upon any information, statement or opinion on this website or from any errors or omissions on this website.

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).



Gwydir crop check

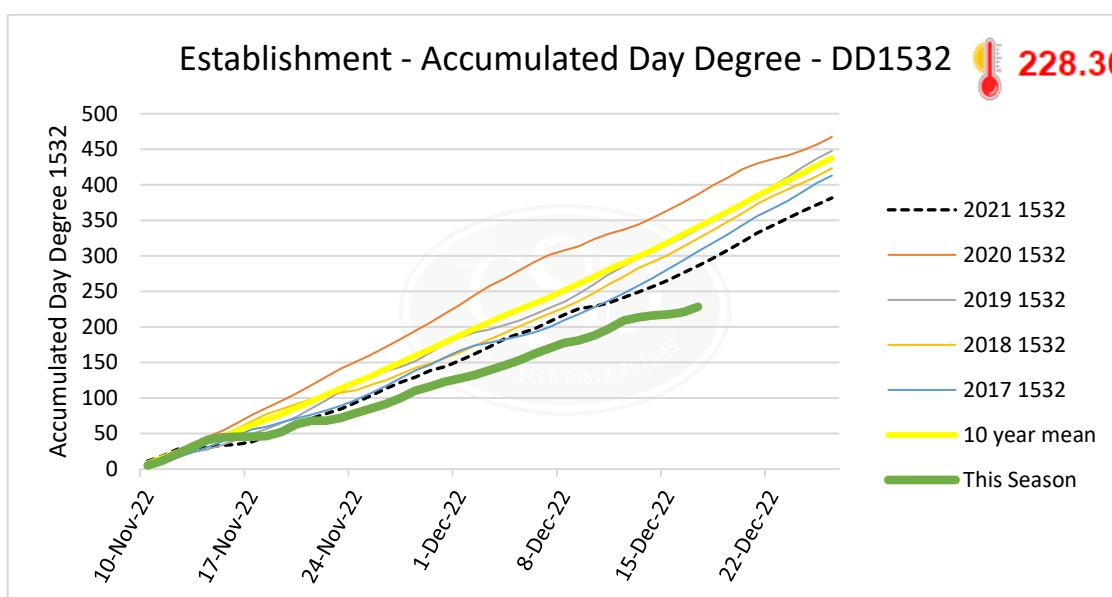



Figure 1: Day Degree comparison using the DD 1532, planting date 10/11/22 Source www.csd.net.au/ddc

AREA	Gwydir Valley
Crop Stage	Irrigated Cotton: <ul style="list-style-type: none"> • 3 leaf to 12 nodes • Crops sown before the flood are starting to take off and fruiting at 5th – 6th node. • Retentions 85%+ • Later planted cotton slow to establish
Irrigation	<ul style="list-style-type: none"> • 1st irrigation completed and 2nd irrigation underway on early cotton this week.
Insects/Beneficial	<ul style="list-style-type: none"> • Some fields have had mite sprays • Mirids building slowly. • Apple dimpling bugs about • Green vege bugs • Low level of beneficial insects – lady beetles, spiders, lacewings
Weeds	<ul style="list-style-type: none"> • Fleabane, Barn Yard Grass, Feather Top Rhodes Grass, Peachvine and Sow Thistle



Gwydir crop check

<p>Spray Drift</p>	<ul style="list-style-type: none"> • Some reports of spray drift (2, 4-D) onto Cotton has been reported in the Gwydir • Consultants concerned its happening already and worried about the coming weeks as harvest is finished and fallow sprays ramp up. • 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 	
<p>Disease</p>	<ul style="list-style-type: none"> • Black root rot • Rhizoctonia • Fusarium 	
<p>Comments</p>	<ul style="list-style-type: none"> • “Usual peachvine, fleabane and FTRG and BYG in areas that missed residual” • “Mites flaring near sorghum & durum and riparian areas” 	



The 2nd Gwydir AWM meeting was held on the 14/12/22 at Mallowa. The key discussion was around early season establishment, mite management, spray drift, come clean go clean. Ali Kuchel from CA was also there as she has been visiting the Cotton Circularity trial sites. These trials return cotton fabric waste back to cotton soils. The soil health is being monitored by Dr Oliver Knox, UNE.

Disclaimer - © Cotton Seed Distributors Ltd 2021. The CottonInfo Crop Check is a summary of cotton crop information gathered from consultants by each CottonInfo Extension Officer (REO) for their valley. This information is collected on a regular basis to share with growers, researchers, and other consultants. The information is just a snapshot in time and does not claim to be a report for each valley; just a summary of comments received.

This information is provided as a general guide only; not comprehensive or specific technical advice. Circumstances vary from farm to farm. To the fullest extent permitted by law, CSD expressly disclaims all liability for any loss or damage arising from reliance upon any information, statement or opinion in this document or from any errors or omissions in this document.

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