



Mungindi crop check

13th January 2023

Day Degree

Table 1: Seasonal Information based on 5th November 2022 planting date (Source: [Cotton Seed Distributors](#))

	2022	2021	2020	2019	2018	10 year mean
Base 12	861.0	962.2 ▲	1070.1 ▲	1162.8 ▲	1089.2 ▲	1059.2 ▲
DD1532*	545.8	633.6 ▲	685.9 ▲	701.7 ▲	697.5 ▲	671.1 ▲
Cold shock days ($\leq 11^{\circ}\text{C}$)	6	4 ▼	2 ▼	5 ▼	1 ▼	2.3 ▼
Days above 36°C	13	18 ▲	29 ▲	50 ▲	33 ▲	32.2 ▲
Nights above 25°C	1	1	5 ▲	19 ▲	8 ▲	6.1 ▲
Days above 40°C	1	3 ▲	13 ▲	23 ▲	10 ▲	10.9 ▲
Total rainfall (mm)	32.8	158.7 ▲	170.8 ▲	45.2 ▲	61.2 ▲	76.1 ▲
Total radiation (MJ/m ²)	1614.9	1528.5 ▼	1580.5 ▼	1813.2 ▲	1729.9 ▲	1527.1 ▼
Average temperature (°C)	24.5	26.1 ▲	27.7 ▲	29.0 ▲	28.0 ▲	27.5 ▲

* Experimental calculation.

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Climate observations and data are obtained via the State of Queensland SILD 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 ^a	339
First flower	777 ^a	584
First open boll	1527 ^a	1077

^a 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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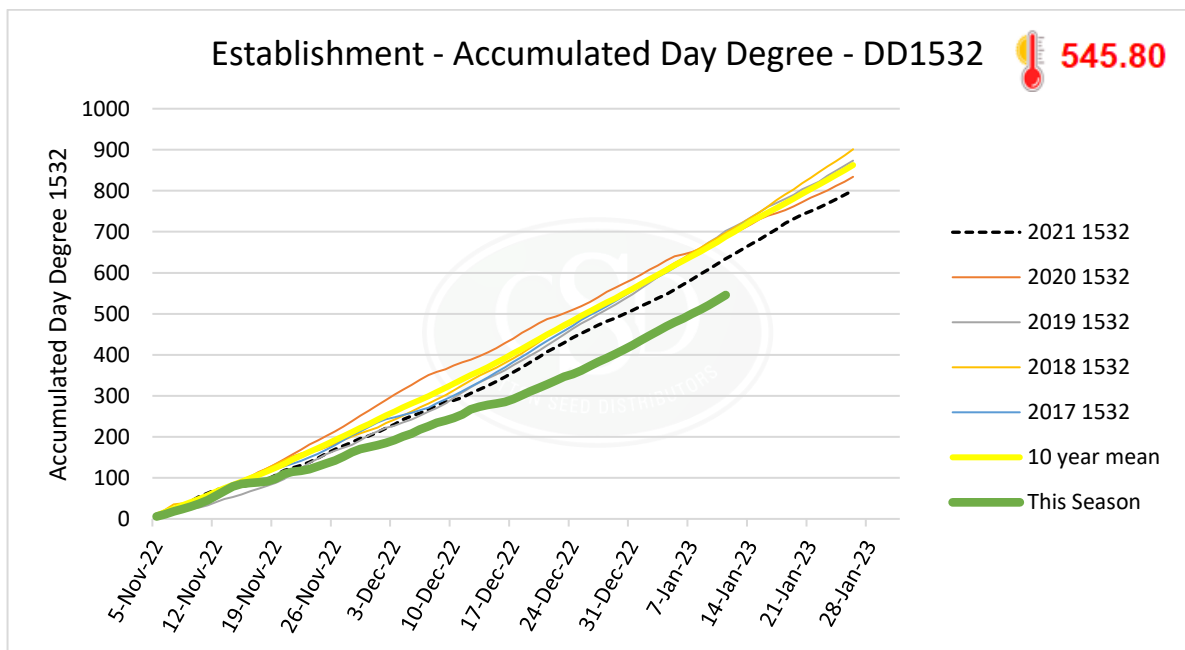


Figure 1: Day Degree comparison using the DD 1532, planting date 5/11/22 Source www.csd.net.au/ddc

AREA	Mungindi
Crop Stage	<p>Irrigated Cotton:</p> <ul style="list-style-type: none"> • Early plant: 19-20 nodes – flowering, generally 8-9 NAWF • Late plant: 12-13 nodes – squaring • Retention goods <p>Dryland:</p> <ul style="list-style-type: none"> • 6 nodes to early flowering. Majority early to mid squaring.
Irrigation	<ul style="list-style-type: none"> • Mostly up to 3rd irrigation. Using 0.7-1ML/ha, some completed 4th irrigation



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<p>Insects/Beneficial</p>	<ul style="list-style-type: none"> • Mirids low levels • Low level Green Vege Bugs, pale cotton stainers and shield bugs • Seeing shield bugs/ vege bugs in fields close to rivers or native vegetation. • Low levels and odd hot spot of Green Peach & Cotton aphid. • Low levels of Two Spotted Mites
<p>Weeds</p>	<ul style="list-style-type: none"> • Fleabane, Peachvine, Barn Yard Grass, Feather Top Rhodes Grass, Sesbania and Milk Thistle <p>I saw an interesting post on Twitter about Paraquat resistant fleabane in Sth NSW. Is anyone having survivors after their double knock in our district? If you do let CottonInfo or Bayer know and we can arrange to get the seed tested.</p> <p>https://twitter.com/agrobaz/status/1610194388592005120?s=20&t=0pjsq3d2dMzSC-5f6W_P4A</p> <p>Here is a link to a NSW DPI paper on that topic:</p> <p>https://www.researchgate.net/publication/354104722_Paraquat_resistance_and_hormetic_response_observed_in_Conyza_sumatrensis_Retz_E_Walker_tall_fleabane_in_Australian_cotton_cropping_systems</p>
<p>Spray Drift</p>	<ul style="list-style-type: none"> • Significant inversion drift across the Mungindi district <p><i>“Just post Christmas nearly every paddock had light drift of phenoxy”</i></p> <p><i>“EVERY field has been hit with spray drift”</i></p> <p><i>“ Damage ranges from mild to severe, with 24D still being expressed in top 7-9 nodes in most field”.</i></p> <p><i>“While crops will recover from current damage, we are only at the start of the season, and most severely affected fields may not survive a second hit”.</i></p> <p><i>“Almost all fields have had 1-2 minor hits of 2, 4-D”.</i></p>
<p>Disease</p>	<ul style="list-style-type: none"> • Defoliating wilt becoming prevalent. • High levels of verticillium reported early in the season



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Comments

"Heliothis egg pressure comes in waves no higher than 15 eggs/m found so far this season"

"BENEFICIALS just starting to come into the crop - they seem light on compared to some years"

"Isolated hail damage from storm yesterday which has done a fair bit of damage. Other than that and hormone damage, crops are finally starting to take off and kick into gear"

"Overall happy with how crops are progressing, last weeks heat and high fruit retention's have tightened irrigation schedules"

"Beneficials at moderate levels, no sprays yet & whitefly at very low levels"

"Weeds being kept at bay with Gly, residual and cultivation before first water. Grasses & fleabane biggest hassle though"

"Cotton has enjoyed warmer weather over the passed few weeks after such a cool start"

Thanks to all the Mungindi 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