



Mungindi crop check

5th February 2021

Day Degrees

Table 1: Seasonal Information based on 15th October planting date (Source: [Cotton Seed Distributors](#))

Summary Seasonal comparison

	2020	2019	2018	2017	2016	10 year mean
Base 12	1704.4	1909.5 ▲	1924.2 ▲	1752.9 ▲	1859.4 ▲	1785.3 ▲
DD1532*	1100.5	1183.4 ▲	1235.3 ▲	1107.5 ▲	1134.5 ▲	1132.9 ▲
Cold shock days ($\leq 11^{\circ}\text{C}$)	3	9 ▲	1 ▼	3	13 ▲	4.6 ▲
Days above 36°C	38	74 ▲	64 ▲	51 ▲	64 ▲	53.1 ▲
Nights above 25°C	7	30 ▲	25 ▲	15 ▲	21 ▲	12.6 ▲
Days above 40°C	13	31 ▲	25 ▲	26 ▲	31 ▲	18.8 ▲
Total rainfall (mm)	269.3	146.0 ▼	110.2 ▼	136.4 ▼	126.8 ▼	183.8 ▼
Total radiation (MJ/m ²)	2610.4	2816.1 ▲	2857.6 ▲	2804.9 ▲	2809.2 ▲	2535.5 ▼
Average temperature (°C)	26.8	28.5 ▲	28.7 ▲	27.2 ▲	28.0 ▲	27.5 ▲

* 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.

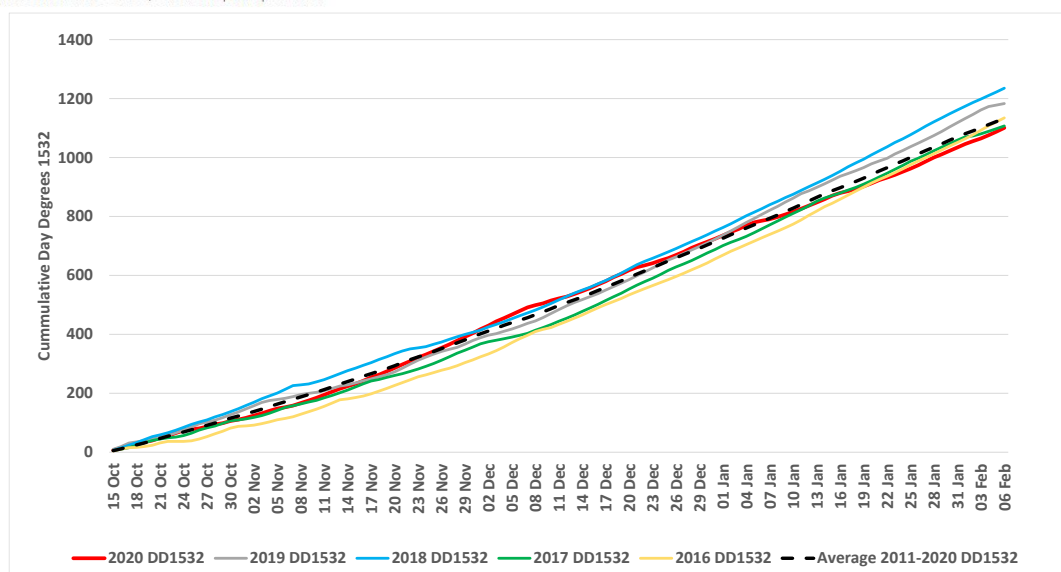


Figure 1: Day Degree comparison using the 1532 experimental calculation. Source www.csd.net.au/ddc



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MUNGINDI CONSULTANTS SUMMARY

AREA	Mungindi
Crop Stage	<ul style="list-style-type: none"> • 7 – 28 nodes • Early plant cotton approaching cutout 5-7 NAWF, 5-6 irrigations to date <p><i>“25-26 Total Nodes (early plant)- approaching cut out, 6-7 NAWF, no cracked bolls”</i> <i>“15 Total Nodes (late plant). Late cotton has taken off in the last 7-14 days”.</i> <i>“crops range from 7 nodes just squaring through to 28 nodes and 5-6 NAWF (semi-irrigated). 2nd irrigation about to go on semi-irrigated cotton and 1st irrigation on some solid full irrigation”</i> <i>“Crops are finally looking much better with improved retention over the past 6 weeks. Have a couple of late planted dryland fields at 20 nodes 8 NAWF with retentions in the early 80% just about to receive their 1st mirid spray (Transform)”</i> <i>“From an irrigated crop point of view, due to the milder temperatures this season, it has definitely been a Sicot 746B3F season, as looking especially good with a decent boll load from the 6/7th node up”.</i></p> <div> </div> <ul style="list-style-type: none"> • The figure above shows the 7-day average DD (1532) for the last 5 seasons and compared to the 10 year average.
Insects/Beneficial	<ul style="list-style-type: none"> • Mirids present, reached threshold • GVB present • SLW populations remaining low but closely monitoring. Nymph populations increasing but still quite low • No reports of pyriproxyfen applications in Mungindi district. • Good beneficial numbers.



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	<ul style="list-style-type: none"> • Mice and locusts present. <p><i>“Mirid/GVB pressure general low-moderate in early cotton. Influx of mirids in all late cotton over the past 7 days, this is the first insecticide”.</i></p> <p><i>“Highest nymph parasitism this early in crop than seen in last 3 cotton seasons.</i></p> <p><i>“Mirids have reached threshold again so hopefully the last spray being put on these as the fields are almost at cut out”</i></p> <p><i>“Have mice beginning to come in high numbers into the semi-irrigated fields with fresh holes in the skip rows”</i></p> <p><i>“Mice- low populations present for weeks but seems to be remaining quite stable at this stage. Locusts low”.</i></p>
Weeds	Nothing reported
Disease	<ul style="list-style-type: none"> • Significant suspected Vert levels in some fields. Low levels of suspected Vert in approx. 60% fields.
General Comments	<p><i>“New Whitefly Decision Support Tool is so useful, fast & really easy to use”.</i></p> <p><i>“Far too much hormone damage! Every farm has had some damage ranging from light to severe. Combination of 2,4-D & Starane/Garlon over multiple events”.</i></p>

The CottonInfo Crop Check is a summary of cotton crop information gathered from consultants by each CottonInfo Regional Extension Officer (REO) for their valley. This information is collected on a regular basis to share with growers, researchers and other consultants. It should be noted that the information is just a snapshot in time. It does not claim to be a thorough report for each valley, just a summary of comments received.



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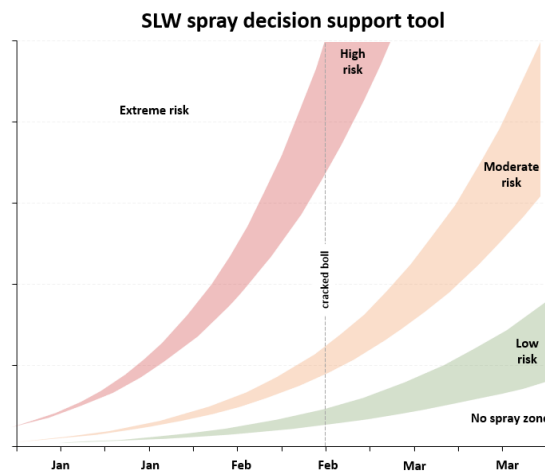
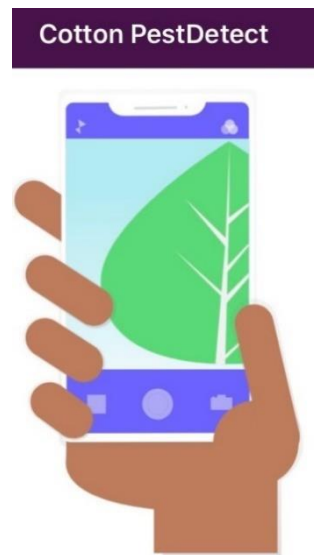
Smartphones joining the hunt for whitefly

The Cotton PestDetect App is a digital tool in development to assist with sampling for silverleaf whitefly nymphs and cotton aphids by providing image-derived insect counts using the phone's camera. The app had an initial test run last year, during which thousands of photos were captured by researchers and agronomists. Over the past 8 months, the project team and the University of Southern Queensland and Queensland Department of Agriculture & Fisheries have been improving the accuracy of the camera app using the thousands of photos taken by researchers and consultants and building in new features.

The biggest of those new features is the automatic plotting of results on the latest decision support tools. The app automatically records the accumulated day degrees for each field based on the provided GPS location, and so you can see the latest results for that field as soon as you are finished taking photos.

A beta version of the App is about to be released for this cotton season, and the development team is inviting all interested growers and consultants to try it out when sampling for whitefly and aphids in the coming weeks.

You can get started by contacting Derek Long from USQ (derek.long@usq.edu.au) who will create an account for you and send a link to the App.



New silverleaf whitefly decision support tool by Dr Richard Sequira (CRDC project DAQ1903).