The background of the cover is a composite image. The upper portion shows a vast field of cotton plants with white, fluffy bolls ready for harvest under a clear blue sky with light clouds. The lower portion shows several large, circular containers filled with light-colored cotton seeds, arranged in a grid-like pattern. The containers have different colored rims, including purple, red, and green.

# 2024 GROWER INFORMATION GUIDE



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## GROWER INFORMATION

### THE CSD COTTON PLANTING SEED AGREEMENT

The CSD Cotton Planting Seed Agreement (Grower Agreement) is an annual agreement that sets out the rights and responsibilities of both parties in respect to the supply and stewardship of CSD products. It is necessary for growers to have an effective Grower Agreement in place prior to arranging for the supply of any CSD cotton planting seed and it covers all CSD commercial cultivars. Grower Agreements are managed between growers and agents.

### COTTON PLANTING SEED PROGRAMS

CSD has Early Order and Regular Order programs for this season.

### CSD COTTON CULTIVARS

CSD will continue to supply a full range of commercial cultivars including conventional cotton. In 2024, we continue with cultivars containing Bollgard® 3, XtendFlex®, and Roundup Ready Flex® traits.

### TRANSPARENT SEED PRICING PROGRAMS

Cotton planting seed prices are based on our Early Order and Regular Order programs this season. CSD will also offer growers extended payment terms with these programs to assist growers to better manage the business cycle.

## ABOUT COTTON SEED DISTRIBUTORS

Cotton Seed Distributors (CSD) has been supplying quality cotton planting seed to the Australian cotton industry since 1967, formed through the vision of Australia's foundation cotton growers. We remain committed to the success of today's industry.

We are a major investor in cotton breeding, research, extension and development, having developed a long and successful partnership with the CSIRO Cotton Breeding Program.

Our objective is to deliver elite cotton varieties that are specifically bred and adapted to suit local growing conditions by delivering yield and quality outcomes to keep the Australian cotton industry at the premium end of the global market.

On behalf of the industry, we take an active role in the development and licensing of best in class biotechnology traits and seed treatments that add value to the overall performance of our varieties and to Australian growers.

We also conduct large scale replicated trials focused on new varieties, technologies and agronomic techniques to assess performance across diverse environmental conditions, and provide industry wide extension services focused on cotton production and agronomy via the CSD Extension Team. CSD Extension is comprised of Extension and Development (E&D) Agronomists and CottonInfo Regional Extension Officers (CottonInfo is a joint venture between CSD, CRDC and Cotton Australia).

### FLEXIBLE ORDERING

CSD will supply the bulk of planting seed orders from Wee Waa and Dalby. We also maintain a network of strategically located depots to maintain our responsiveness. The CSD Agency Network will assist in providing critical logistics support to ensure growers receive cotton planting seed as required.

### SEED TREATMENTS

The full complement of seed treatments is available in 2024. This includes Vibrance Complete®, Cruiser® and Cruiser Extreme® from Syngenta; and Genero® 600 from eChem.

### 800KG PACKAGING

800kg bags of all varieties in all seed treatment combinations are available. 800kg bag orders will be available under the Early Order program. Regular orders may be available with ample notification

VARIETY GUIDE

TECHNOLOGY	VARIETY	FULL SEASON	LATE PLANT	FUSARIUM	VERT	DRYLAND	SEMI-IRRIGATED
Bollgard® 3 stacked with Roundup Ready Flex®	Sicot 714B3F	**	***	***	***	*	**
	Sicot 746B3F	***	*	***	**		**
	Sicot 748B3F	***	*	***	**	***	***
	Sicot 606B3F	***	**	***	***		**
Bollgard® 3 stacked with XtendFlex®	Sicot 619B3XF	***	**	**	*	***	***
	Sicot 761B3XF	***	*	***	***	***	**
	Siokra 253B3XF	***	*	***	***	*	*
Roundup Ready Flex®	Sicot 711RRF	**	**	**	***		**
	Sicot 812RRF	***	*	**	***	**	*
XtendFlex®	Sicot 724XF	***	*	***	**	**	**
Conventional	Sicot 620	***	*	**	**	**	**
	Siokra 250	***	*	***	**	**	**

VARIETIES CONTAINING XTENDFLEX®

The new varieties containing XtendFlex®, allow you to spray glyphosate, dicamba and glufosinate over the top of the crop. This offers a large opportunity for changing up the chemistry used on farm to tackle some harder to kill weeds, such as fleabane.

In 2023 Bayer offered a 50,000ha allocation of XtendFlex® Cotton to the whole industry. This area was capped by the APVMA because the over the top herbicide is still under permit for cotton.

THE VARIETIES

- CSX1049B3XF (to be known as Sicot 619B3XF): New germplasm\*, normal leaf, normal density, often relatively compact determinate growth (though not always), has performed consistently well in Southern irrigation areas, with good performance in dryland. May also have fit in Northern Australia or in areas with marginal water of semi-irrigated systems (Note: lower disease rank than other lines).
- CSX4133B3XF: Full season, normal leaf, low density, broad adaptation, overall performance similar to Sicot 748B3F. A good Vrank and Frank package.
- CSX5438B3XF: Full season, normal leaf, low density, has performed best from the Macquarie north. Need to be aware of the lower micronaire.
- CSX3141B3XF (to be known as Sicot 761B3XF): New germplasm\*, normal leaf, low density, resistant to cotton bunchy top (CBT), has shown broad adaptation with good performance across the valleys (Similar to Sicot 606B3F), appears to have increased resistance to verticillium wilt (but needs more data to confirm).
- CSX4389B3XF (to be known as Siokra 253B3XF): New germplasm\*, okra leaf, low density, resistant to cotton bunchy top (CBT), broad adaptation, but has performed best in high yielding full season sites, appears to have increase verticillium resistance (but need more data), need to be aware of lower micronaire.
- CSX8674XF (to be known as Sicot 724XF): your non Bollgard® refuge option.

\* Denotes new germplasm (not related to current B3F varieties) but do not grow significantly different from the current CSD varieties.

## SEED TREATMENTS

All commercial cotton planting seed supplied by CSD has a base fungicide applied as approved by the Australian Disease Treatment Standard. Adding an insecticide treatment provides both seed and seedling protection from a range of economically important diseases and insects, which may reduce the final establishment of cotton crops.

## PRODUCT CODES

Short product codes will at times be used on CSD documents such as invoices. The codes are shown in the following table.

VIBRANCE COMPLETE (V2)	VIBRANCE (V)
Genero (V2G)	Genero (VG)
Cruiser (V2C)	Cruiser (VC)
Cruiser Extreme (V2X)	Cruiser Extreme (VX)

## INSIGHTS INTO OUR SEED VIGOUR

At CSD we test the seed we sell, to ensure we deliver you a quality product that meets the Australian Cotton Industry's quality standards for certified seed. These standards currently require us to test the warm germination of our seed.

### WARM GERMINATION %

Warm germination is undertaken by placing the seed between moist paper towels and incubating them at 20 and 30°C for eight and 16 hours, respectively. The germination is based on emergence of a healthy seedling and at CSD we assess seedling development at four and seven days based on a minimal elongation of 40 mm.

### COOL GERMINATION

CSD also test the seeds vigour, which is done with what is referred to as the 'cool' germination test. The seed vigour test is undertaken at a fixed temperature of 18°C and assessed after seven days with a positive germination recorded only for seed with a healthy 40 mm seedling. This test is more variable than the warm germ test but allows for a relative seed vigour comparison to be made between different seed lots.

### HOW TO USE THE SEED VIGOUR TEST

Seed vigour is useful to consider when planting under less-than-ideal conditions, the equivalent of 'amber' in the CSD planting traffic light. Under 'amber' conditions a seed lot with lower cool germination will likely have slower and less consistent development compared to a seed lot with higher cool germination. It is important to remember that the cool germination test does not and will not predict field germination in less-than-ideal conditions.

### EFFECT OF SEED DENSITY TYPE

The type of seed, whether normal or low density, can also affect establishment, because the ability of a germinating seed to progress from germination to establishment relies heavily on the energy within the seed. Although normal or low-density seed type is insignificant for establishment under ideal (green) conditions, when less than ideal (amber) the seed can expend more of its stored energy simply surviving and this can mean it runs out of fuel before managing to establish.

CSD take every step we can to produce high quality seed. We continue to evolve our seed production, processing, storage and sampling procedures, but recognise that growers often find themselves planting under less than ideal (amber) conditions. Although seed quality is only part of the ingredients for good establishment, the others being bed preparation, soil moisture, soil temperature, sowing depth and rate, understanding the tests CSD undertakes and how they can be used to improve the chances of establishing your cotton crops are important. If at any point you have a question or query about a test or result presented by CSD, please get in touch.



STATEMENT OF SEED ANALYSIS

OVERVIEW

Variety	Sicot 746B3F
AUS Lot Number	AUS/N12/22/322
Treatment	V2C
Test Date	27/06/2023

Variety specific information can be found on CSD’s website. It is important to be aware of the seed density of the variety you are planting as this can significantly influence field performance at establishment.

Normal density seed type varieties are considerably better equipped to withstand marginal conditions at sowing. CSD warrants the varietal and trait/s of interest purity within the bag of seed. CSD operates a limited generation seed increase scheme to ensure varietal purity.

For CSD cotton seed an AUSlot represents a batch of treated seed up to 25,000 kg. All seed quality tests are carried out on a representative sample taken from the entire AUSlot.

This date represents the final test on the finished bag of seed. Seed is tested post treating with the fungicide and/or insecticides. This is the last stage of CSD’s QA process prior to delivery to CSD Agents.

PURITY

Pure Seed	99.98%
Other Seed	0.0%
Inert Matter	0.02%
Mechanical Damage	9%

Physical purity represents the percentage of the contents of the bag which are: pure seed (cotton seed), other seeds (non-cotton seeds) and inert matter (plant material, seedcoat fragments and all other non-seed matter).

CSD classifies mechanical damage as any damage to the seed coat that exposes the embryo. This is assessed with a microscope and can include major damage through to very minor damage not visible to the naked eye. Note that the germination tests include all these seeds.

GERMINATION

Warm Germination	91%
Cool Germination	64%
Seeds per kilogram	11,765

Warm germination % represents the total number of seeds which have germinated and produced a seedling 40 mm or longer and is measured at 4 and 7 days after exposing the seed to cyclic 30/20°C. This figure represents the maximum germination percentage or viability of the seed and can be used to adjust planting rates.

The cool germination test is a relative measure of seed vigour. It is the total number of seeds which have germinated and produced a seedling 40 mm or longer measured at 7 days after exposing the seed to constant 18°C temperature. Unlike the warm germination result which represents the percentage of viable seeds, the cool germination figure doesn’t represent actual performance of the seedlot in cool conditions, nor does it indicate expected establishment in cool conditions. If planting into less-than-ideal conditions such as those indicated by an “amber light” on CSD’s traffic light system, seedlots with lower cool germination will likely have slower and less consistent development compared to a seedlot with higher cool germination. Seed vigour should be considered in combination with seedling vigour as determined by varietal seed type. If concerned about early vigour, CSD encourages precaution such as waiting for preferable conditions, avoiding excessive planting depth, or adjusting seeding rates.

The seeds per kilogram is the actual seeds/kilogram for the specific AUSlot. It can be used to fine tune the planting operation and planting rate.

## CBA PARTNERSHIP

CSD has had a long-standing relationship with CSIRO through the development and release of over one hundred different cotton varieties since the 1970s. This partnership was formalised in 2007, through the formation of the Cotton Breeding Australia (CBA) joint venture – a targeted research fund set up to facilitate the research and development of future cotton varieties for Australian growers.

The cotton breeding cycle from initial crossing to commercial release can take up to ten years, therefore the success of the CBA joint venture is a result of the long-term commitment of both staff and funding. CBA research is focussed on the future issues and challenges for cotton production in Australia, and both CSD and CSIRO consider the CBA partnership critical in ensuring that cotton remains at the forefront of Australian innovation, well into the future.

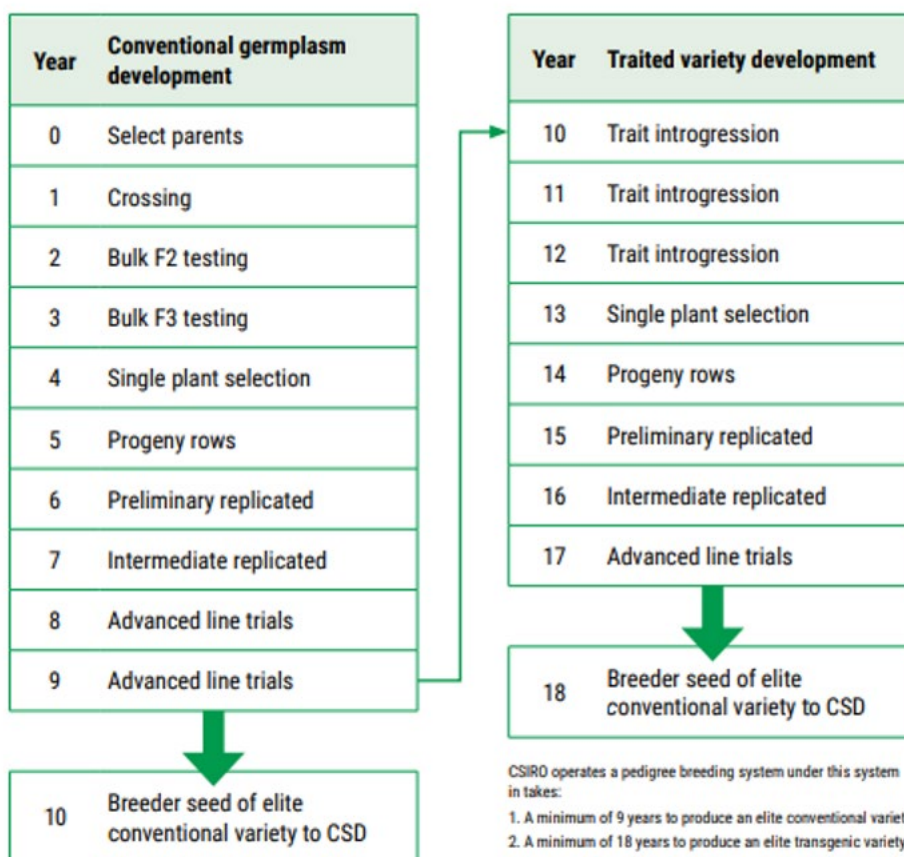
The variety breeding and selection process is a slow and detailed undertaking, taking many years for a new variety to pass the rigorous testing and milestone program and be approved for commercial release. From the time of the initial cross of two desirable parents, it generally takes 8-10 years to commercialise a new variety.

Through the CSIRO Cotton Breeding Program, CSD has commercialised over numerous cotton varieties, including varieties with high yield and broad adaptation, and specialist varieties for dryland systems and premium quality characteristics. Today, 100 per cent Australian cotton growers use varieties grown from the CSIRO Cotton Breeding Program.

At each step moving down the ladder, lines showing positive attributes such as good seedling vigour, high yield or high disease tolerances are selected and progressed through the program.

Development of a transgenic variety involves crossing an elite conventional variety with a line carrying the transgenic trait, followed by numerous backcrosses with the elite parent variety to re-establish its desirable characteristics. The new line then progresses down the same pathway as conventional varieties. The final step in the breeding process (prior to commercialisation) is assessing performance under commercial growing conditions, in large scale trials with the support of a network of growers, referred to as trial co-operators. The relative performance of a variety over a number of years at the same site is of utmost value to growers.

**CSIRO Cotton Breeding Program process**





# FastStart™

**Over 10 years of research and development collaboration**

## Investment that delivers results

With every purchase of Syngenta Seedcare™ treated seed from CSD, the FastStart™ Cotton Program invests in your success. Our \$3m R&D investment has delivered tools and technologies turned to the success of growers year after year.



## Focused on what counts

Establishment losses are costly. Since 2009, FastStart\* has helped prevent unnecessary crop losses inside the critical first 70 days, delivering not only new tools, but technology and training.



Cotton replant calculator



Soil temperature network

## 10 tips to get your cotton off to a FastStart™

1. Prepare fields early
2. Don't let nutrition be a limiting factor
3. Select the right variety for your conditions
4. Be ready to go, don't let your planter let you down
5. Plant when conditions are right
6. Planting is an important operation – do it once, do it right
7. Select the desired uniform plant population you would like to establish to maximise yield per hectare
8. Reduce competition, control weeds early in the crops life and keep weed free
9. First irrigation is critical in ensuring desired growth rates at first flower
10. Have the crop growing healthy at first flower



Variety performance



Variety performance comparison



Plant population calculator



Find out more at  
[faststartcotton.com.au](http://faststartcotton.com.au) OR  
scan the QR code

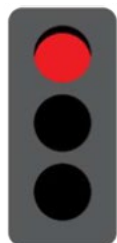




## THE CSD TRAFFIC LIGHT SYSTEM

Planting is one of the most important operations on the farm. It sets the standard for the entire season and paves the way for achieving optimum crop growth and ultimately yield.

CSD with the use of the FastStart weather station network have developed a traffic light system to help gauge the current and near future conditions at planting. We need to consider all of the important elements of successfully establishing a crop and see how they relate to CSD traffic light system.



RED LIGHT



STOP!



AMBER LIGHT



STEADY!



GREEN LIGHT



GO!

The traffic lights system considers two variables:

1. Soil temperature at 10 cm depth above 14°C at 8am (AEST)
2. Forecast average temps on a rising plane, and contributing to adequate day degrees for emergence for the coming week

*Each of the above variables relates directly to the green ticks and red crosses in the figure on the left. E.g. In the case that you have only rising forecast temps, but not a soil temp above 14°C, you will have only one green tick = amber light (caution).*

If you cannot give a green tick next to at least one of these statements, then planting conditions are definitely unsuitable – **STOP!**

If you can give a green tick to only one of these statements – **BE CAUTIOUS**. Adjustments may need to be made.

If you can give both statements a green tick – **LET'S GO!**

CSD understand that some regions may not be able to achieve a green light in all scenarios. In this case, planting may be undertaken on an amber light, provided the following factors are considered:

1. Seed bed preparation and soil type – consider your field condition score which can be found under the CSD Planting Rate Calculator on the website
2. Planter preparation and maintenance – refer to the FastStart establishment guide for further information
3. Seed size and variety – Utilise the statement of seed analysis on CSD's website for individual AUSlot information

For further technical information, please refer to an article written by Dr Michael Bange.



PRICING

EARLY ORDER PRICING - 20KG BAGS

Early order grower price applies to orders received prior 17 July 2024. Please mark your orders as "Early Order".

Category	Description	Variety	Vibrance Complete (V2)				Vibrance (V)			
			V2	V2C	V2G	V2X	V	VC	VG	VX
Core	High Volume Medium Density	Sicot 714B3F	\$135	\$182	\$182	\$234	\$104	\$151	\$151	\$203
		Sicot 711RRF								
		Sicot 812RRF								
Staple	High Volume Low Density	Sicot 606B3F	\$167	\$213	\$213	\$265	\$135	\$182	\$182	\$234
		Sicot 746B3F								
		Sicot 748B3F								
		Sicot 619B3XF								
		CSX4133B3XF								
		CSX5438B3XF								
		Sicot 761B3XF								
		Sikora 253B3XF								
Sicot 724XF										
Niche	Low Volume Various Density	Siokra 250	\$204	\$251	\$251	\$303	\$173	\$220	\$220	\$272
		Siokra 620								

EARLY ORDER PRICING - 800KG BAGS

Early order grower price applies to orders received prior 17 July 2024. Please mark your orders as "Early Order".

Category	Description	Variety	Vibrance Complete (V2)				Vibrance (V)			
			V2	V2C	V2G	V2X	V	VC	VG	VX
Core	High Volume Medium Density	Sicot 714B3F	\$5,400	\$7,280	\$7,280	\$9,360	\$4,160	\$6,040	\$6,040	\$8,120
		Sicot 711RRF								
		Sicot 812RRF								
Staple	High Volume Low Density	Sicot 606B3F	\$6,680	\$8,520	\$8,520	\$10,600	\$5,400	\$7,280	\$7,280	\$9,360
		Sicot 746B3F								
		Sicot 619B3XF								
		CSX4133B3XF								
		CSX5438B3XF								
		Sicot 761B3XF								
		Sikora 253B3XF								
		Sicot 724XF								



## REGULAR ORDER PRICING

Regular order grower price applies to orders received after 17 July 2024. Please mark your orders as "Regular Order".

Category	Description	Variety	Vibrance Complete (V2)				Vibrance (V)			
			V2	V2C	V2G	V2X	V	VC	VG	VX
Core	High Volume Medium Density	Sicot 714B3F	\$155	\$202	\$202	\$254	\$124	\$171	\$171	\$223
		Sicot 711RRF								
		Sicot 812RRF								
Staple	High Volume Low Density	Sicot 606B3F	\$187	\$233	\$233	\$285	\$155	\$202	\$202	\$254
		Sicot 746B3F								
		Sicot 748B3F								
		Sicot 619B3XF								
		CSX4133B3XF								
		CSX5438B3XF								
		Sicot 761B3XF								
		Sikora 253B3XF								
Sicot 724XF										
Niche	Low Volume Various Density	Siokra 250	\$224	\$271	\$271	\$323	\$193	\$240	\$240	\$292
		Siokra 620								

## CALENDAR OF KEY DATES

YEAR	DUE DATE	EVENT
2024	19 June	Early Order #1 closes, for despatch of seed between 24 July and 30 November 2024. Priority given to Central QLD orders.
	17 July	Early Order #2 closes, for despatch of seed between 11 September and 30 November 2024
	May - October	CSD Growing Better Mastering Cotton Forums
	23 October	Early Order #3 closes, for despatch of seed between 1 December and 15 December 2024
	30 November	Payment due for Early Order #1 and #2
2025	31 March	Payment due for Early Order #3

## ORDERING PROCESS

1. Agent enters order via [www.csd.net.au](http://www.csd.net.au)
2. CSD sends confirmation or contacts the agent to discuss the order.
3. Unless CSD is notified of errors/changes the order becomes IRREVOCABLE 24 hours after confirmation.
4. Complete a CSD Grower Agreement with your agent prior to seed delivery

# INTRODUCING XTENDFLEX® COTTON

XtendFlex cotton provides growers with greater flexibility to use additional herbicide modes-of-action to target glyphosate resistant weed populations and hard-to-kill weed species.

XtendFlex cotton provides over-the-top tolerance to registered glyphosate, dicamba and glufosinate herbicides, providing growers of the technology with the flexibility to select the best weed management strategies for their farm and weed spectrum. In addition to being tolerant to these three herbicides, the XtendFlex cotton trait will be stacked with the Bollgard® 3 insecticide trait, enabling growers to achieve *Helicoverpa* spp. control. XtendFlex cotton will also be available without the Bollgard 3 trait.

The XtendFlex cotton trait provides the ability to use over-the-top (OTT) applications of multiple herbicides.

TRAITS\*

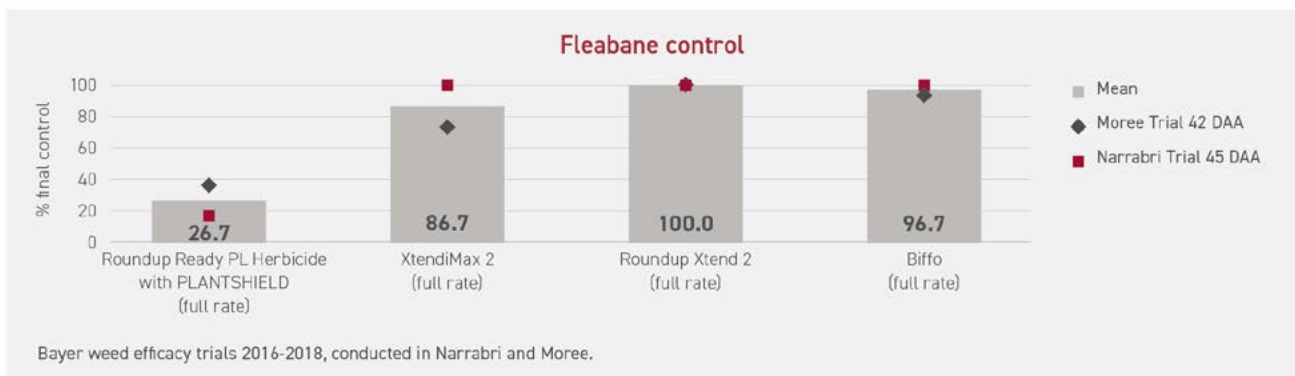


HERBICIDES

 <b>ACTIVE CONSTITUENT</b> 540 g/L glyphosate as potassium salt	<b>XTENDIMAX 2 WITH VAPOURGRIP TECHNOLOGY</b> <b>ACTIVE CONSTITUENT</b> 480 g/L dicamba as MEA salt	<b>ROUNDUP XTEND 2 WITH VAPOURGRIP TECHNOLOGY</b> <b>ACTIVE CONSTITUENT</b> 160 g/L dicamba as MEA salt + 320 g/L glyphosate as MEA salt	<b>GLUFOSINATE - AMMONIUM</b> <b>ACTIVE CONSTITUENT</b> 200 g/L glufosinate-ammonium
<b>VapourGrip® Xtra Agent</b>			

\*XtendFlex cotton is not tolerant to other Group 1 Herbicides (eg. 2, 4-D)

Fleabane control is improved by using XtendiMax 2 in a tank-mix with Roundup Ready Herbicide PL with PLANTSHIELD rather than standalone applications of Roundup Ready PL Herbicide with PLANTSHIELD Technology or XtendiMax 2.





XtendFlex efficacy trial – Emerald region, QLD

High feathertop Rhodes grass (*Chloris virgata*) population

- > Biffo fb Biffo = 100% control
- > Roundup Ready PL fb Biffo = 98% control

**Photos**

- 2 days after application 1
- 15 days after application 2

Trial ID: 22QJ27



Trt 9. Roundup Ready PL fb Roundup Ready PL



Trt 11. Roundup Ready PL fb Biffo



Trt 8. Biffo fb Biffo

XtendFlex efficacy demo - Moree – Peachvine

Photos • 15 days after spray application



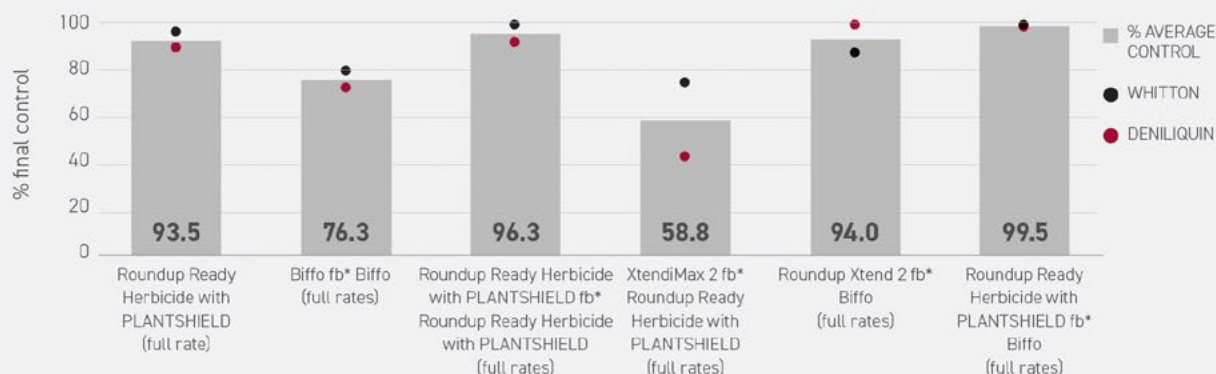
Roundup Ready PL @ 1.9 L/ha



Roundup Xtend @ 3.5 L/ha

Barnyard grass control is improved by double knocking with Biffo following Roundup Ready PL Herbicide with PLANTSHIELD Technology. Introducing an alternative mode of action would also help control any surviving populations that are resistant to glyphosate. The addition of an alternative mode of action would help to prevent resistance developing from sequential glyphosate.

**Barnyard grass control**



Bayer weed efficacy trials 2019-2020, conducted in Whitton and Denilquin districts.

\*fb follow by, 7 to 10 days after first spray application



## SEED INCREASE PROGRAM

### ABOUT THE PROGRAM

Each season, CSD undertakes a Seed Increase Program (SIP) to ensure the provision of high quality varieties for the Australian cotton industry. CSD utilises an internationally recognised seed certification scheme that limits the number of generations that can be produced from the seed provided to CSD by the breeder. This scheme maintains the genetic purity of each variety and ensures that the seed supplied by CSD is true to type for each individual variety.

### SEED INCREASE STATS FOR 2023/2024



27

growers



30

farms



90

fields



4,639

Ha planted



13,300

Est. round modules

## SEED INCREASE GROWERS

CSD has a commitment to the Australian cotton industry to supply seed of the highest quality; and this includes working with growers who have a proven track record of quality seed production and can offer fields that meet the following conditions:

- New or fallow fields from the previous season
- Good overall farm hygiene standards (free of weeds and diseases)
- Fully irrigated fields with sufficient water to fully mature the seed crop
- Adequate flood protection
- Where required, growers are able to establish and comply with the Technology User Agreement (TUA) of third parties such as Bayer Crop Science
- Fields are accessible by CSD Seed Increase staff
- Participating growers must be current members of CSD and should be aware that ginning of the seed crop must take place with a pre-approved ginning organisation.

## HOW TO PARTICIPATE IN THE SEED INCREASE PROGRAM

CSD will commence development of the next season's SIP in July-August each year.

Growers are invited to complete the expression of interest form, which is active on this page during the application period from June to August each year.

To ensure genetic purity of the seed crop, CSD will conduct a range of crop and machinery inspections and equipment clean downs throughout the season (for example, prior to planting and harvest). Participating growers will also be required to provide management information on the seed crop as requested.

## SEED QUALITY REVIEW

Last season CSD faced a number of challenges in regard to the supply of quality planting seed.

As a result, CSD is currently undertaking a review of all processes involved in the production of quality seed, from seed production fields, through seed storage, processing and also seed testing to allow us to put measures in place to ensure this issue does not occur again.

CSD remains committed to ensuring that Australian cotton growers have the best quality seed possible to keep the Australian cotton industry at the forefront of the global cotton market.





## RICHARD WILLIAMS INITIATIVE

### CSD'S GROWER FACING RESEARCH PROGRAM

The initiative acknowledges Richard Williams who was one of CSD's original directors and was chairman of CSD for 21yrs. Initiated in 2022, CSD's Richard William's commercial research initiative (RWI) was established to support applied and innovative research investment directly benefiting Australian cotton growers.

Key principles of the RWI are that: it aligns with CSD strategy, be guided by meaningful engagement with growers, it is supported by quality science, be responsive and agile, it has a path to market, and can complement and leverage existing industry investment.

Ideas can be submitted through the CSD extension team, contacting Michael Bange CSD's commercial research manager directly or through the website with the QR code below.

### CURRENT RWI PROJECTS

#### **RW1001 - WATER DASHBOARD**

A proud partnership between CSD, CRDC and Goanna Ag.

#### **RW1002 - DISEASE ACTION RESEARCH**

A proud partnership between CSD, CRDC, Crown Analytical and CottonInfo.

#### **RW1003 - LONG SEASON COTTON IN CENTRAL QUEENSLAND**

A proud partnership between CSD and CottonInfo.

#### **RW1004 - ECONOMICS ASSESSMENT OF INDUSTRY DATABASES**

A proud partnership between CSD, CRDC and Ag Econ.

#### **RW1006 - NORTHERN AUSTRALIA CROP DESTRUCTION**

A proud partnership between CSD, CRDC, Bayer and NT Farmers.

#### **RW1008 - HANDHELD NIR CALIBRATION FOR IN-SEASON NUTRITION ASSESSMENT**

A proud partnership between CSD, CSIRO, AMPS and Incetic Pivot Fertilisers.

#### **RW1009 - MEPIQUAT CHLORIDE EVALUATIONS NORTHERN AUSTRALIA**

A proud partnership between CSD, Adama and CGS.

#### **RW1010 - EFFECTIVE CROP CANOPY MANAGEMENT FOR OPTIMISING COTTON PRODUCTION USING MEPIQUAT CHLORIDE**

A proud partnership between CSD, CRDC and CSIRO.



**SUBMIT YOUR COTTON RESEARCH IDEA BY SCANNING THE QR CODE**



## How do you know your cotton crop is on 'track'?

- Are you looking for greater visibility of your cotton crop's performance and climatic influence?
- Do you know where your cotton crop's growth and development is up to at all times?

Use CottonTracka® to ensure your cotton crop is on track to achieve the best yields possible.

CottonTracka® combines multiple CSD tools in one, easy-to-use platform.

- **OBTAIN REAL-TIME PLANT DEVELOPMENT DATA AND PREDICTIONS**
- **BENCHMARK AGAINST PREVIOUS CROPS IN YOUR REGION**
- **SHARE YOUR DATA WITH OTHER USERS SUCH AS YOUR CONSULTANT**

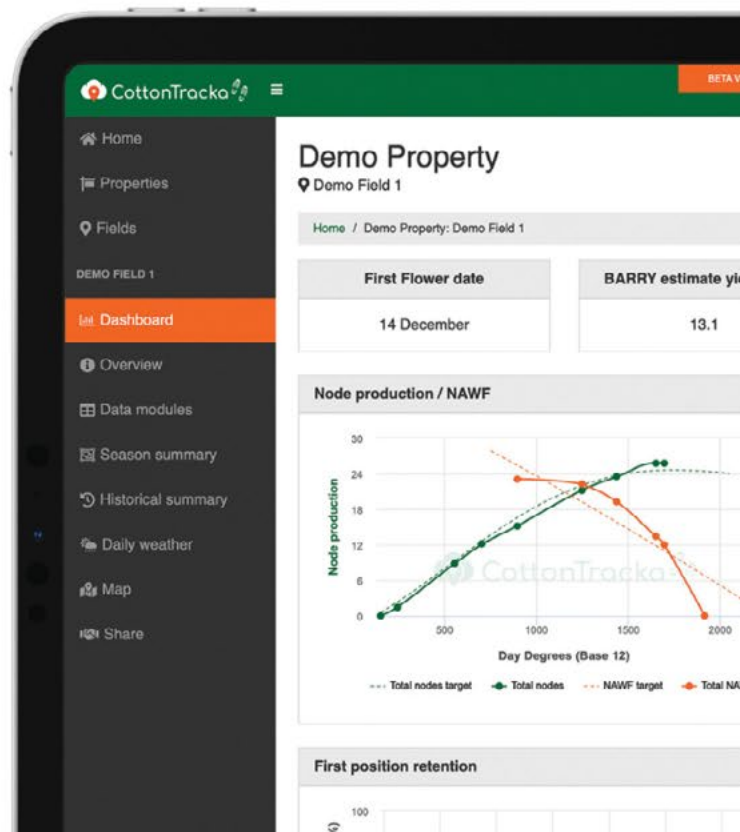
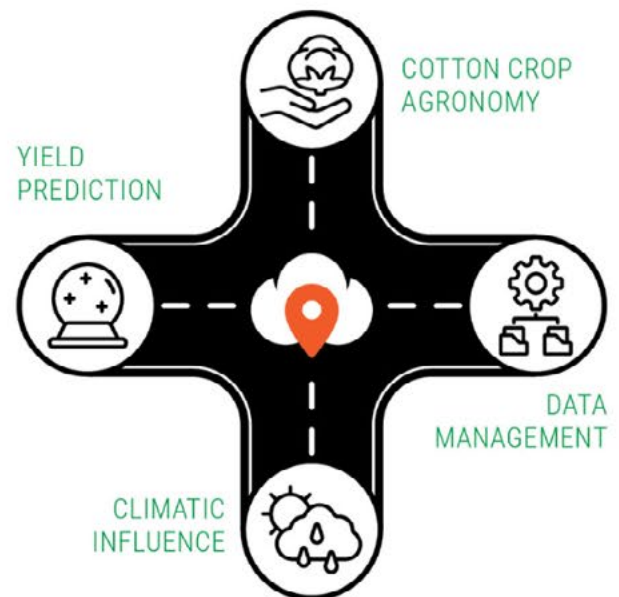
All CSD members have access to CottonTracka®.

### NOT A MEMBER?

Join today and enjoy the benefits including access to CottonTracka®



[csd.net.au/cottontracka](https://csd.net.au/cottontracka)





# CSD AGRONOMY AND DIGITAL TOOLS

Scan for more information on CSD's suite of tools.



All current CSD members have **EXCLUSIVE** access to CottonTracka and the range of digital agronomy tools right now using your CSD Membership login credentials.

## PRE-PLANT



### VARIETY PERFORMANCE COMPARISON

Compare and contrast variety performance filtered by region, cultivation and selected years for yield and quality. View individual trials contributing to the results.



### DRYLAND ROW CONFIGURATION PERFORMANCE TOOL

Reduce stress and uncertainty around choosing the optimal configuration for your situation. Enter scenarios to produce an optimal configuration for consideration.



### COTTON PLANTING RATE CALCULATOR

Calculator incorporating field conditions, disease history, region, establishment methods, insect control, soil temperature and 7 day forecast outlook.

## PLANTING



### GOT THE GREEN LIGHT FOR COTTON PLANTING?

Planting is one of the most important operations. The traffic light system offers a simple process to quickly gauge the conditions at planting.



### FASTSTART® SOIL TEMPERATURE NETWORK

Consisting of 60 automatic weather stations offering real time soil temperatures at 10cm indicating soil temperatures leading up to planting.

## IN-CROP



### DAY DEGREE CALCULATOR

Day degrees are fundamental to understanding crop growth and development assisting management decisions. The DDC sources data from over 6,000 BOM SILO sites.



### STEFF®

STEFF is designed to assist to estimate the date of first flower, assisting growers with crop management leading up to first flower and importantly, the first irrigation.



### BARRY®

BARRY calculates potential yield by using data from key growth stages. Estimations allow growers to optimise management decisions, scheduling and inputs alongside yield estimates.



CottonTracka® sits at the intersection of cotton crop agronomy, data management and environmental influence. It performs in real time, in your field, in your environment. CottonTracka aggregates weather data transforming your field observation data into easy to interpret visual displays to assist with field management.

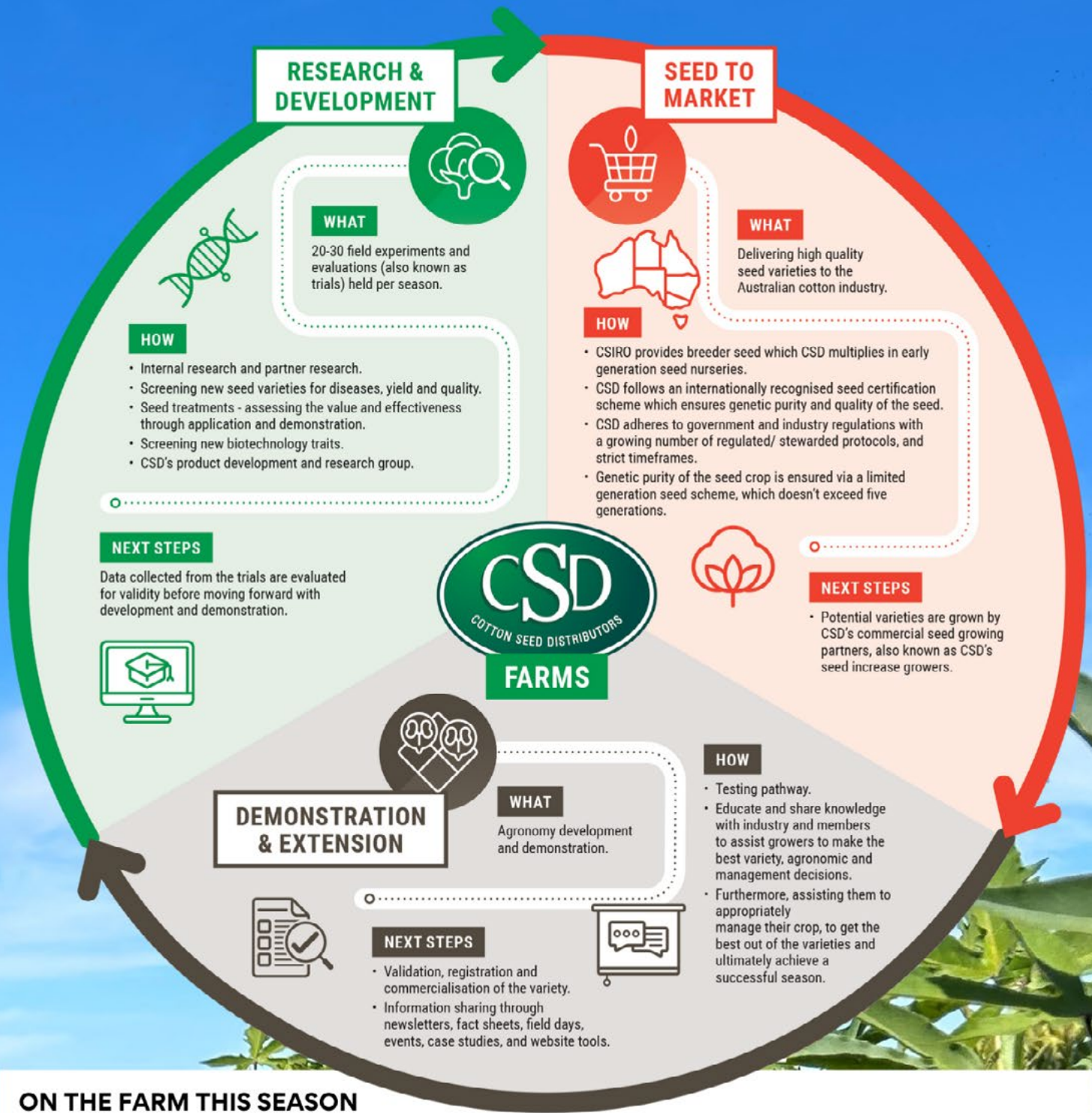
Powerful insight for yield prediction via BARRY® yield modelling, STEFF® first flower estimate, tracking growth and development and view local climatic influence and historical summaries.



[www.cottontracka.com.au](http://www.cottontracka.com.au)



# WHAT WE DO ON CSD FARMS



## ON THE FARM THIS SEASON

RESEARCH & DEVELOPMENT	SEED TO MARKET	DEMONSTRATION & EXTENSION
<ul style="list-style-type: none"> <li>• 12ha of advanced line trials for CSIRO, screening new conventional material.</li> <li>• Verticillium wilt screening nursery for CSIRO.</li> <li>• Verticillium wilt box trial (new varieties).</li> <li>• Seed quality trials.</li> <li>• Defoliation trials.</li> <li>• 113ha of non-bollgard seed increase.</li> </ul>	<ul style="list-style-type: none"> <li>• Early generation nursery potential new varieties 7 non-bollgard XtendFlex® lines and 19 Bollgard 3 XtendFlex® lines.</li> <li>• Larger nursery 56ha seed increase of 7 potential new varieties.</li> </ul>	<ul style="list-style-type: none"> <li>• 240 post control plots planted, representing seed lots sold to industry.</li> <li>• Bollgard 3 XtendFlex® variety demonstration site.</li> <li>• Numerous other CSD internal extension trials.</li> </ul>





## Why cotton is the crop to pick



### Higher gross margins

Cotton provides high gross margins



### Simplified weed & pest control

Biotechnology in cotton allows for less insecticides



### Greater flexibility

Greater flexibility in planting windows enables optimum planting schedules



### Less risk

Advances in breeding and biotech have reduced risk



### Marketing opportunities

Forwarding options and the small size of the domestic market

More and more Australian growers are discovering the benefits of including cotton in their crop rotations. If you've been thinking about joining them, the Acres of Opportunity website is a great place to start.

[www.acresofopportunity.com.au](http://www.acresofopportunity.com.au)



Member of Australia Pty Ltd, ABN 86 006 725 560, Level 1, 8 Bedford Road, Hawthorn East, Vic. 3123. Phone: 1800 426 000 [www.bayer.com.au](http://www.bayer.com.au)  
Cotton Seed Distributors Ltd (CSD), ABN 86 006 725 560, "Greenhouse", 29/12 Culligans Road, Warr, NSW 2388.  
Postal Address: PO Box 717 Warr, NSW 2388, Australia. Phone: 61 2 6790 0000. Fax: 61 2 6796 2766. [www.csd.net.au](http://www.csd.net.au)



# INTRODUCING THE CSD EXTENSION TEAM

## CSD EXTENSION MANAGEMENT TEAM



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The CSD Extension team aims to deliver highly specific, targeted knowledge and information to cotton growers and industry which drives beneficial practice change to Australian cotton growers.

So, if you want to discuss your growing options, find out more information on our tools, get access to the latest trial data, or simply talk about all things cotton, give your local Extension team member a call today.

Kununurra

Katherine

Elliott

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