



MAJOR IMPACTS OF OUR INVESTMENT

3% average growth in yield per hectare over the five years from 2013: achieving our Strategic Plan target.

4 NEW PRODUCTS

- successfully commercialised from CRDC-supported R&D: Sero X by Innovate Ag in 2016-17; and Cottonspec, cotton contamination detection sensors for gins, and algorithms for stress-time thresholds (for on-farm canopy temperature sensors) by CSIRO in 2017-18.

78%

the number of growers participating in myBMP: up from 40% in 2013. BMP handbooks also developed for classing & ginning. 87% of gins now use BMP.



35% the percentage of cotton growers who hosted a research trial on their farms.

These growers contribute an average of 19 hours and \$5500 towards these trials.

\$16.7 million

The total funds managed by CRDC across seven major grant projects from 2013-18: leveraging our investment to deliver greater impact for cotton growers.

3 MAJOR COLLABORATIVE CROSS-RDC PROJECTS

- driven by CRDC under the Rural R&D for Profit program: Smarter Irrigation for Profit, More Profit from Nitrogen, and Accelerating Precision Agriculture to Decision Agriculture - the first project to involve all 15 Research and Development Corporations.

Proof of concept of automation irrigation trialed on cotton farms

\$20.3 BILLION - the amount by which the gross value of all agricultural production could increase through the implementation of digital agriculture across all Aust production sectors - a 25 per cent increase on 2014. This is a key finding of the 2016-18 Accelerating Precision to Decision Agriculture final report, launched by the Minister for Agriculture & Water Resources, the Hon. David Littleproud MP.

BG3 RMP

The approval of the Bollgard 3 Resistance Management Plan (RMP) by the APVMA to support its commercial release in 2016-17. The result of years of collaboration between CRDC, Cotton Australia & Monsanto.



17.1 : 1

the benefit-cost ratio of CRDC's early-planting research in the QLD Central Highlands: \$17.10 in benefit to growers for every \$1 invested by growers and the Government through CRDC into this RD&E.

8.3 : 1

the benefit-cost ratio of CRDC's investment in water-use efficiency RD&E: \$8.3 in benefit to growers for every \$1 invested by growers and the Government through CRDC into this RD&E.

5.4 : 1

the benefit-cost ratio of CRDC's investment in nutrition RD&E: \$5.40 in benefit to growers for every \$1 invested by growers and the Government through CRDC into this RD&E.

Cotton's first resilience assessment



outlined the cotton industry's resilience and preparedness to major expected and unexpected future changes, events and shocks, such as drought and market fluctuations.



\$395,000

Invested in by CRDC into 45 local projects run by Cotton Grower Associations (CGAs) from 2013-18 through the CRDC Grassroots Grants program, supporting local RD&E initiatives.

New partnerships with start-up companies

Partnerships with Pollenizer, X.Lab, Startup Catalyst, The Gate. MIT bootcamps and Flurosat were established in 2013-18 to provide pathways for cotton industry disruptors and entrepreneurs.



9.1 : 1

the benefit-cost ratio of CRDC's investment in the collaborative industry myBMP program: \$9.10 in benefit to growers for every \$1 invested by growers and the government through CRDC into this RD&E.



2.5 : 1

the benefit-cost ratio of CRDC's investment in the industry sustainability RD&E: \$2.50 in benefit to growers for every \$1 invested by growers and the government through CRDC into this RD&E.



40%

The percentage of CRDC research that was in cross-sectoral RD&E from 2013-18.

\$8.5 MILLION

- invested by CRDC in innovative projects under the 'blue sky' Cotton Futures theme from 2014-18. These included innovations in gin trash, polymers, new technologies to measure water stress and technologies enabled by robotics to improve weed control.

100% awareness of CRDC among cotton consultants and 97% among cotton growers as at 2018. 91% of cotton growers believe that R&D drives continuous improvement of the Australian cotton industry.

589

- the number of cotton growers, researchers, students (undergraduate and postgraduate) and industry personnel CRDC has supported from 2013-18 through the 10 leadership and development programs we invest in.

100%

of those who provided feedback at the CRDC, CottonInfo and ICAN regional weed management workshops said the information learned would help with decisions in the field.

HRMS: Herbicide Resistance Management Strategy (HRMS) launched in 2014. 65% of cotton hectares now managed using HRMS's 2+2&0 weed control approach.

14,000

- the number of cotton growers and consultants that CottonInfo has connected with over 990 extension activities in the five years to 2018.

95% of consultants and 88% of growers believe CottonInfo has assisted with practice change in key areas

863,000

The number of collective views that the 152 CRDC-supported best practice videos have amassed on the CottonInfo YouTube channel as at June 2018.



One video, on starting a siphon pipe, has been viewed **781,000 times**