

### **Cotton Industry Gross Margins**



2025-26

# **Gross Margin Budget: Overhead Irrigated Cotton**

1m row spacing. Bollgard3®, XtendFlex®, Roundup Ready Flex®

					Example	Your
INCOME:					Budget	Budget
					\$/ha	\$/ha
	10.3	bales/ha <sup>1</sup> @	Cotton lint	\$573 /bale (at gin)	\$5,902	
			(less quality discount)	-\$8 /bale (at gin)	-\$82	
			Cotton seed	\$93 /bale (at gin)	<b>\$</b> 957	
			_	\$658 /bale (at gin)		
				A. TOTAL GROSS INCOME \$/ha:	\$6,777	
<b>VARIABLE COST</b>	S:					
See pg 2 for details						
			Fallow managemen	nt	\$70	
	Dura		Nutrition		\$887	
Pickin	nlant		Planting		<b>\$145</b>	
onwar 27%	us .		Irrigation (5.5 ML a	applied <sup>2</sup> )	\$836	
2770			Insurance	. ,	\$233	
			Crop protection, ap	oplication & licence fee	\$884	_
			Defoliation		\$120 <u> </u>	_
	In-crop 57%		Picking, cartage &	ginning	\$1,157	-

GROSS MARGIN\* (A-B) \$/ha: \$2,403 GROSS MARGIN (A-B/ML sourced<sup>2</sup>) \$/ML: \$358

B. TOTAL VARIABLE COSTS \$/ha:

Break even yield (bales/ha) based on lint & seed prices above: Break even price (\$/bale incl. seed and discounts) based on 10.3 bales/ha:

Farming: Post-crop

5.7 bales/ha \$411 /bale

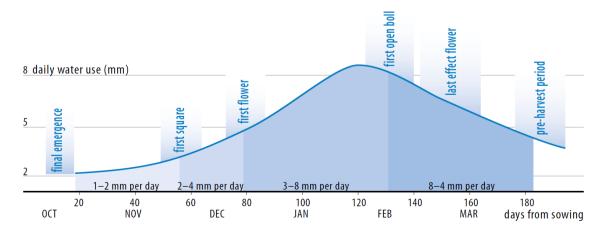
\$4,374

Note that break even yield & price are for variable costs only, overhead costs and labour are NOT considered

#### SENSITIVITY TABLE<sup>5</sup>

		PRICE (\$/bale incl. of seed & discounts)								
		558	608	658	708	758				
	7.3	102	454	806	1159	1511				
/ha	8.3	537	938	1339	1739	2140				
bales/	9.3	973	1422	1871	2320	2769				
ᆵ	10.3	1408	1905	2403	2900	3397				
<u>&amp;</u>	11.3	1844	2389	2935	3480	4026				
227kg	12.3	2279	2873	3467	4061	4655				
•	13.3	2715	3357	3999	4641	5283				

Nominal seasonal Daily Water Use (mm/day) for cotton production (WaterPak 2012)



This budget is designed to give an indication of operations and costs required to grow a cotton crop. Prices are estimates only. A grower should alter this budget to take account of individual field management plans, movements in crop and input prices and changes in seasonal conditions. In all instances, operations should be tailored to the requirements of individual paddocks. For a complete guide to cotton management, see the *Australian Cotton Production Manual*.

# Overhead Irrigated Cotton (Bollgard3®, XtendFlex®, Roundup Ready Flex®)

2025-26

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		Machinery		Inputs				
ariable Costs	s by Operation		Total	Rate		Cost	Cost	Cost
llow management	(long fallow) <sup>4</sup>		\$/ha	/na	Unit	\$/unit	\$/ha	\$/ha
Fallow spray:	Glyphosate (450g/L)	Self Propelled	2.00	2.00	1	4.00	8.00	
Fallow spray:	Flumioxazin (500g/L)	with above	2.00	0.03		147.00	4.41	
Fallow spray:	Paraquat (360g/L)	Self Propelled	2.00	2.00		5.00	10.00	
	Flumioxazin (500g/L)	with above	2.00	0.03		147.00	4.41	
Fallow spray:			2.00					
Fallow spray:	Glufosinate-ammonium (200g/L)	Self Propelled	2.00	3.75 1.00		7.00	26.25	
Fallow spray:	Terbuthylazine (875g/kg)	with above		1.00		11.00	11.00	
itrition	Call audaliant tractions		0.25					
Fertiliser:	Soil nutrient testing	0	2.35	4.05		4.40	000.40	
Fertiliser:	MAP (16.5kg N, 36kg P, 2.5kg S applied) - spread pre plant	Spreader	9.00	165	kg	1.43	236.12	
Fertiliser:	Potassium (50kg K applied) - spread pre plant	with above	40.00	100	kg	0.88	88.10	
Fertiliser:	Urea (117kg N applied) - drilled pre plant	340 eng/HP	16.00	255	kg	1.02	259.85	
Fertiliser:	Urea (117kg N applied) - side dress early-mid season	340 eng/HP	16.00	255	kg	1.02	259.85	
anting								
Planting:	Precision planter	340 eng/HP	14.00					
Planting:	Seed: Bollgard3® XtendFlex®	with above		13	kg	10.06	130.74	
Irrigation manage	ment <sup>2,3</sup>							
Irrigation:	Budgeted water (from source <sup>2</sup> )			6.6	ML	126.15	827.02	
Other:	Soil moisture monitoring	Contractor	8.75					
p protection, appl	ication & licence fee <sup>4</sup>							
Insecticide:	Sulfoxaflor (500g/kg), target: mirids	Self Propelled	2.00	0.14	kg	311.00	43.54	
Insecticide:	Fipronil (200g/L), target: mirids	Self Propelled	2.00	0.07		62.00	4.34	
Insecticide:	Spirotetramat( 240g/L), target: SLW	Aerial Spraying	20.00	0.40		165.00	66.00	
Insecticide:	Acetamiprid (218g/L ), Emamectin (32.5g/L)	Aerial	20.00	0.30		83.00	24.90	
mocodolac.	target:SLW, aphids, shield bugs	Aerial Spraying	20.00	0.00	-	00.00	24.50	
Harbinida			2.00	2.25	ka	10.00	40.50	
Herbicide:	Pendimethalin (455g/L)	Self Propelled	2.00	2.25		18.00	40.50	
Herbicide:	Terbuthlazine (875g/L)	with above		1.20		11.00	13.20	
Herbicide:	XtendiMax® 2 (Dicamba 480g/L) (with XtendFlex® varieties only) <sup>4</sup>	Self Propelled	2.00	1.17		20.00	23.40	
Herbicide:	S-metolachlor OTT (960g/L)	with above		1.00		9.00	9.00	
Herbicide:	Roundup Ready® Plantshield® (690g/kg Glyphosate)	Aerial Spraying	20.00	1.50	kg	9.00	13.50	
Farming:	Cultivation: Inter-row	340 eng/HP	15.00					
Growth regulator:	Mepiquat (380g/L), growth regulator	Aerial Spraying	20.00	0.06	L	22.00	1.32	
Growth regulator:	Mepiquat (380g/L), growth regulator / cutout	Aerial Spraying	20.00	0.20	L	22.00	4.40	
Other:	Chipping or Spot Spray		11.00					
Licence:	Bollgard 3® RRF Licence Fee: Price Discount							
Other:	Consultant	Contractor	75.00					
Refuge:	Refuge crop: Pigeon peas 2.5%, see page 3			0.1	ML			
foliation <sup>4</sup>								
Defoliation:	Thidiazuron (500 g/L)	Aerial Spraying	20.00	0.15	1	26.00	3.90	
Defoliation:	Ethephon (900g/L)	with above	20.00	0.80		7.00	5.60	
Defoliation:		with above		1.00		7.00	7.00	
	Spraying oil Thidiazuron + Diuron (240g + 120g/L)		20.00					
Defoliation:	Thidiazuron + Diuron (240g + 120g/L)	Aerial Spraying	20.00	0.13		94.00	12.22	
Defoliation:	Ethephon (900g/L)	with above		0.75		7.00	5.25	
Defoliation:	Spraying oil	with above		1.00		7.00	7.00	
Defoliation:	Pyraflufen-ethyl (25g/L)	Aerial Spraying	20.00	0.08		87.00	6.96	
Defoliation:	Ethephon (900g/L)	with above		0.75		7.00	5.25	
Defoliation:	Spraying oil	with above		1.00	L	7.00	7.00	
king, cartage & gi	nning							
Picking:	Own plant: round baler (variable costs only, incl. fuel)	CP770	94.00 per ha					
Picking:	plus wrap		47.00 / round bale				10.44 / lint bale	
Cartage:	Freight (incl. lift) 50 km from gin	costs related to	63.00 / round bale				14.00 / lint bale	
Ginning:	Fibre processing	yield	75.00 / lint bale				75.00 / lint bale	
Levies:	Research levy & Cotton Australia levy		3.75 / lint bale				3.75 / lint bale	
rming: Post-crop	· · · · · · · · · · · · · · · · · · ·		* * *					
Farming:	Mulcher	340 eng/HP	18.00					
Farming:	Pupae bust (check bt licence cultivation requirements)	340 eng/HP	24.00					
her	. apas sauc (oncon se nocino cultivation requirements)	O-TO GIIG/TIF	24.00					
			Promium depends	arious for	tore			
Crop insurance:			Premium depends on v	นเเบนร โสติ	1013			

Total irrigation water requirements (1ha cotton + .025ha refuge) from source<sup>2</sup> ML/ha:

6.7 ML

## Overhead Irrigated Pigeon Peas (refuge for Bollgard3® cotton)

#### 2025-26



	Machinery				Inputs		TOTAL
sts by Operation		Total	Rate		Cost	Cost	Cost
		\$/ha	/ha	Unit	\$/unit	\$/ha	\$/ha
ent (long fallow) <sup>4</sup>							
Glyphosate (450g/L)	Self Propelled	2.00	2.00	L	4.00	8.00	10
Flumioxazin (500g/L)	with above		0.03	kg	147.00	4.41	4
Paraquat (360g/L)	Self Propelled	2.00	2.00	L	5.00	10.00	12
Flumioxazin (500g/L)	with above		0.03	kg	147.00	4.41	4
Glufosinate-ammonium (200g/L)	Self Propelled	2.00	3.75	L	7.00	26.25	28
Terbuthylazine (875g/kg)	with above		1.00	L	11.00	11.00	11
Discing	340 eng/HP	27.00					27.00
Hill up	340 eng/HP	17.00					17.00
Rubber tyre roller	340 eng/HP	6.00					6.00
Planter & seed: Pigeon pea	340 eng/HP	14.00	35.0	kg	5.50	192.50	206.50
ment <sup>2,3</sup>							
Budgeted water (from source <sup>2</sup> )			4.5	ML	126.15	567.66	567.66
nt <sup>4</sup>							
Pendimethalin (455g/L)	Self Propelled	2.00	2.00	kg	18.00	36.00	38.00
Prometryn (500g/L)	with above		2.50	kg	21.00	52.50	52.50
Glyphosate (450g/L)	Self Propelled	2.00	1.60	L	4.00	6.40	8.40
Cultivation: Inter-row	340 eng/HP	15.00					15.00
Crop destruction (slashing)	340 eng/HP	18.00					18.00
B. TOTAL VARIABLE COSTS \$/ha: 1							1,026
	ent (long fallow) <sup>4</sup> Glyphosate (450g/L) Flumioxazin (500g/L) Paraquat (360g/L) Flumioxazin (500g/L) Glufosinate-ammonium (200g/L) Terbuthylazine (875g/kg)  Discing Hill up Rubber tyre roller  Planter & seed: Pigeon pea  ment <sup>2,3</sup> Budgeted water (from source <sup>2</sup> )  nt <sup>4</sup> Pendimethalin (455g/L) Prometryn (500g/L) Glyphosate (450g/L) Cultivation: Inter-row  Crop destruction (slashing)	sts by Operation  Int (long fallow) <sup>4</sup> Glyphosate (450g/L) Flumioxazin (500g/L) Paraquat (360g/L) Flumioxazin (500g/L) Glufosinate-ammonium (200g/L) Terbuthylazine (875g/kg)  Discing Hill up Rubber tyre roller  Planter & seed: Pigeon pea  ment <sup>2,3</sup> Budgeted water (from source <sup>2</sup> ) Int <sup>4</sup> Pendimethalin (455g/L) Prometryn (500g/L) Glyphosate (450g/L) Cultivation: Inter-row  Self Propelled with above  340 eng/HP  340 eng/HP  Self Propelled with above  Self Propelled with above  340 eng/HP	### Sts by Operation  #### Int (long fallow) <sup>4</sup> Glyphosate (450g/L)  Flumioxazin (500g/L)  Paraquat (360g/L)  Flumioxazin (500g/L)  Glufosinate-ammonium (200g/L)  Terbuthylazine (875g/kg)  Discing  Discing  Ja40 eng/HP  Ja40 eng/HP  Ja40 eng/HP  Ja40 eng/HP  Ja40 eng/HP  Ja40 eng/HP  Pendimethalin (455g/L)  Pendimethalin (455g/L)  Self Propelled  Self Propelled	sts by Operation         Total \$/ha         Rate \$/ha         #ha         Rate \$/ha         #ha         Int (long fallow)*         Image: Company of the properties of the propert	Sts by Operation   Total   Rate   Sylan   Int (long fallow)   Self Propelled   2.00   2.00   Long fallow)   Self Propelled   2.00   3.75   Long fallow)   Self Propelled   2.00   3.75   Long fallow)   Long fallow)   Self Propelled   2.00   3.75   Long fallow)   Long fa	Sts by Operation   Total   Rate   Cost   /ha   /ha   Unit   Syunt   Syunt	Total   Rate   Cost   Cost   Sha   Sha   Cost   Sha   Sha

Total irrigation water use ML/ha:

4.5 ML

#### 2025-26 Cotton Gross Margins, brought to you by the cotton industry's joint extension program, CottonInfo.

#### Foot notes

- \*GM/Ha: This gross margin represents the income and costs for 1 hectare of cotton plus the required refuge crop of 0.025ha, resulting in a total gross margin area of 1.025 ha.
- 1. Yield: Actual yields are a complex result of agronomic and environmental factors. In this budget a yield of 10.3 bales/ha is appropriate considering the long fallow, fertiliser program and budgeted irrigation water.
- 2. Water: Water ML/ha pumped from sources (surface or groundwater). Grower Survey data shows a 5 year average (2019-20 to 2023-24) field applied water of 6.4 ML/ha. Water application for refuge pigeon peas is estimated at 3.7 ML/ha, giving total cotton (1 ha) and refuge (0.025 ha) water use of 6.5 ML/ha. Research and trials show that overhead irrigation systems can decrease water application by up to 30% compared to surface irrigation (see 2022 ACPM p29). A more conservative 15% has been applied generating a 5.5 ML/ha overhead irrigation requirement for cotton plus refuge. Average conveyance efficiency of 83% (NSW DPI 2020-21 and 2021-22) brings total sourced water to 6.7 ML/ha. Individual water budgets will vary depending on irrigation system efficiency, and regional and seasonal variations in plant evapotranspiration and effective rainfall.
- 3. Cost of water: The cost of applied irrigation water varies considerably depending on: source (groundwater, surface water), number of times pumped to get to field, energy source of pumps, and relevant fees and charges. This budget assumes 79% surface water and 21% groundwater (2021-22 to 2022-23 Grower Surveys), with a surfacewater cost of \$64/ML (extract and lift to storage including fuel, maintenance and water usage charges), a groundwater cost of \$83/ML (extract only including fuel, maintenance and water usage charges), and lateral move fuel and maintenance costs of \$58/ML.
- **4. Chemicals:** Registrations vary between states. Use of a particular brand name or active ingredient are examples only and do NOT imply a recommendation. Always read chemical labels and follow directions. XtendFlex® varieties allow 'Over the Top' application of glyphosate, dicamba and glufosinate-ammonium herbicides under specific conditions. With a range of traits being grown this season, ensure all weed management strategies are trait specific.
- **5. Sensitivity tables:** There are yield dependant costs included in these calculations.

**Machinery costs:** The cost of each farming pass reflects variable costs only (fuel, repairs and maintenance), labour and depreciation are considered overhead costs, so are not included in this budget. Contractor rates encompass these costs and are outlined in a separate budget.

See the Gross Margin Notes for further details on assumptions.

#### Acknowledgements

We wish to acknowledge the efforts made by industry specialists and management during the development and review of the 2025 cotton gross margin budgets. Assistance was provided by retailers, agronomists, the CottonInfo team, CCA, and CSD.

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