



SURFACE IRRIGATED COTTON (Roundup Ready Flex® Bollgard II®)

Farm Enterprise Budget Series - Northern Zone

Summer 2011-2012

1. GROSS MARGIN BUDGET:

INCOME:

| | | | | |
|-------------------|-------------------|--------------------------|------------|--|
| Lint - | 9.00 bales/ha at | \$540 /bale (at gin).... | \$4,860.00 | |
| Seed - | 3.24 tonnes/ha at | \$215 /tonne (at gin)... | \$696.60 | |
| Refuge 10% cotton | | | \$555.66 | |

A. TOTAL INCOME \$/ha:

| Sample Budget \$/ha | Your Budget \$/ha |
|---------------------|-------------------|
| \$4,860.00 | |
| \$696.60 | |
| \$555.66 | |
| \$6,112.26 | |

VARIABLE COSTS:

see following page(s) for details

| | RR Bollgard II® | Your budget |
|--|-----------------|-------------|
| Cultivation..... | \$98.15 | |
| Sowing..... | \$112.96 | |
| Crop insurance..... | \$55.00 | |
| Fertiliser & application..... | \$498.59 | |
| Herbicide & application..... | \$216.94 | |
| Insecticide & application..... | \$114.10 | |
| Irrigation..... | \$310.73 | |
| Contract harvesting..... | \$316.76 | |
| Cartage to gin..... | \$105.88 | |
| Ginning charges..... | \$495.00 | |
| Levies..... | \$40.50 | |
| Licence fees..... | \$370.00 | |
| Other (eg consultant)..... | \$60.00 | |
| Cotton refuge crop, 10% of Bt cotton area..... | \$257.29 | |
| B. TOTAL VARIABLE COSTS \$/ha: | 3,051.91 | |

C. GROSS MARGIN (A-B) \$/ha:

\$3,060.35

D. GROSS MARGIN (A-B) \$/ML:

\$437.19

SENSITIVITY TABLES

2. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER HECTARE:

| Lint bales/ha | Seed t/ha | \$480 /bale \$175 /t | \$510 /bale \$195 /t | \$540 /bale \$215 /t | \$570 /bale \$225 /t | \$600 /bale \$235 /t | Lint price Seed price |
|---------------|-------------|-------------------------|-------------------------|---------------------------------|-------------------------|-------------------------|-----------------------------|
| 7.00 | 2.52 | \$1,279 | \$1,565 | \$1,852 | \$2,110 | \$2,369 | |
| 8.00 | 2.88 | \$1,801 | \$2,129 | \$2,456 | \$2,752 | \$3,047 | |
| 9.00 | 3.24 | \$2,324 | \$2,692 | \$3,060 | \$3,393 | \$3,726 | Gross Margin (\$/ha) |
| 10.00 | 3.60 | \$2,846 | \$3,255 | \$3,665 | \$4,034 | \$4,404 | |
| 11.00 | 3.96 | \$3,369 | \$3,819 | \$4,269 | \$4,676 | \$5,082 | |
| 12.00 | 4.32 | \$3,891 | \$4,382 | \$4,873 | \$5,317 | \$5,760 | |
| 13.00 | 4.68 | \$4,414 | \$4,946 | \$5,478 | \$5,958 | \$6,439 | |

3. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER MEGALITRE:

| Lint bales/ha | Seed t/ha | \$480 /bale \$175 /t | \$510 /bale \$195 /t | \$540 /bale \$215 /t | \$570 /bale \$225 /t | \$600 /bale \$235 /t | Gross Margin (\$/ML) |
|---------------|-------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------------|
| 7.00 | 2.52 | \$183 | \$224 | \$265 | \$301 | \$338 | |
| 8.00 | 2.88 | \$257 | \$304 | \$351 | \$393 | \$435 | |
| 9.00 | 3.24 | \$332 | \$385 | \$437 | \$485 | \$532 | Gross Margin (\$/ML) |
| 10.00 | 3.60 | \$407 | \$465 | \$524 | \$576 | \$629 | |
| 11.00 | 3.96 | \$481 | \$546 | \$610 | \$668 | \$726 | |
| 12.00 | 4.32 | \$556 | \$626 | \$696 | \$760 | \$823 | |
| 13.00 | 4.68 | \$631 | \$707 | \$783 | \$851 | \$920 | |

SURFACE IRRIGATED COTTON (Roundup Ready Flex® Bollgard II®)

Farm Enterprise Budget Series - Northern Zone

(diesel pump from river-regulated)

Summer 2011-2012

| CALENDAR OF OPERATIONS: | | Machinery | | | Inputs | | | | Total |
|---|-------|------------------------------------|--------------|-------------|-------------------------------|------------|---------|-------------|------------------|
| Operation | Month | hrs /ha | Cost \$/hour | Total \$/ha | Rate/ha | Band Width | Cost \$ | Total \$/ha | Total Cost \$/ha |
| Stalk pull and mulch | May | contract | | | | | | 100% | 75.00 |
| Middlebusting | Jul | 0.23 | 60.53 | 13.92 | | | | 100% | 13.92 |
| Fertiliser - anhydrous ammonia | Jul | with above | | 100kg N | 122 kg | 100% | 0.90 | 109.76 | 109.76 |
| Herbicide - glyphosate ground spray | Jul | 0.03 | 55.78 | 1.67 | 1.0 L | 100% | 4.42 | 4.42 | 6.09 |
| Wetter - non-ionic surfactant | Jul | with above | | | 0.2 L | 100% | 6.45 | 1.29 | 1.29 |
| Fertiliser - MAP plus potassium blend | Aug | 0.15 | 61.53 | 9.23 | 100 Kg | 100% | 1.01 | 101.00 | 110.23 |
| Herbicide - trifluralin ground spray | Aug | 0.03 | 55.78 | 1.67 | 2.8 L | 100% | 5.87 | 16.44 | 18.11 |
| Plus incorporation | Aug | 0.15 | 61.53 | 9.23 | | 100% | | | 9.23 |
| Pre irrigate | Sep | | | | 1.4 ML | 100% | 44.39 | 62.15 | 62.15 |
| Fertiliser - MAP plus potassium blend | Sep | 0.14 | 64.02 | 8.96 | 100 Kg | 100% | 0.96 | 96.00 | 96.00 |
| Planting - precision planter | Oct | 0.14 | 64.02 | 8.96 | | 100% | | | 8.96 |
| Planting- seed Roundup Ready Flex® Bollgard II® | Oct | with above | | | 13 kg | 100% | 8.00 | 104.00 | 104.00 |
| Insecticide - imidacloprid | Oct | with above | | | seed treatment | | | | |
| Herbicide - Roundup Ready® | Nov | 0.03 | 55.78 | 1.67 | 1.2 kg | 100% | 8.00 | 9.60 | 11.27 |
| Irrigate | Nov | | | | 1.0 ML | 100% | 44.39 | 44.39 | 44.39 |
| Insecticide - fipronil (200 g/L) | Nov | 0.03 | 55.78 | 1.67 | 0.06 L | 60% | 349.35 | 13.21 | 14.88 |
| Fertiliser - urea | Dec | with above | | 120kg N | 261 Kg | 100% | 0.70 | 182.61 | 182.61 |
| Herbicide - Roundup Ready® | Dec | 0.03 | 55.78 | 1.67 | 1.2 kg | 100% | 8.00 | 9.60 | 11.27 |
| Irrigate | Dec | | | | 1.0 ML | 100% | 44.39 | 44.39 | 44.39 |
| Insecticide - fipronil (200 g/L) | Dec | 0.03 | 55.78 | 1.67 | 0.06 L | 60% | 349.35 | 13.21 | 14.88 |
| Herbicide - diuron (900 g/kg) | Dec | 0.03 | 55.78 | 1.67 | 1.5 kg | 85% | 12.60 | 16.07 | 17.74 |
| Herbicide - prometryn (500 g/L) | Dec | with above | | | 2.20 L | 85% | 14.48 | 27.08 | 27.08 |
| Irrigate | Jan | | | | 1.2 ML | 100% | 44.39 | 53.27 | 53.27 |
| Roundup Ready® (shielded sprayer) | Jan | 0.09 | 64.53 | 5.81 | 1.0 kg | 60% | 8.00 | 4.80 | 10.61 |
| Insecticide - indoxacarb (150 g/L) | Jan | aerial spray | | 20.00 | 0.65 L | 100% | 60.15 | 39.10 | 59.10 |
| Irrigate | Jan | | | | 1.2 ML | 100% | 44.39 | 53.27 | 53.27 |
| Crop insurance | Jan | Premium depends on various factors | | | | | | 55.00 | 55.00 |
| Irrigate | Feb | | | | 1.2 ML | 100% | 44.39 | 53.27 | 53.27 |
| Insecticide - dimethoate (400 g/L) | Feb | aerial spray | | 20.00 | 0.5 L | 100% | 10.49 | 5.25 | 25.25 |
| Bollgard II stacked with Roundup Ready Flex® | | | | | | | | | |
| Licence fee * | Feb | | | | | | | 370.00 | 370.00 |
| Defoliant - thidiazuron + diuron (120 + 60 g/L) | Mar | aerial spray | | 20.00 | 0.25 L | 100% | 132.00 | 33.00 | 53.00 |
| Defoliant - crop oil | Mar | with above | | | 2.0 L | 100% | 3.91 | 7.82 | 7.82 |
| Defoliant - ethepon (720 g/L) | Mar | with above | | | 1.5 L | 100% | 9.33 | 14.00 | 14.00 |
| Defoliant - ethepon (720 g/L) | Mar | aerial spray | | 20.00 | 2.0 L | 100% | 9.33 | 18.66 | 38.66 |
| Contract picking & module building | May | contract | | \$285/ha | | | | | 285.00 |
| Contract module lifting | May | contract | | \$60.00 | /module @ 20 bales per module | | | | 31.76 |
| Contract module cartage to gin | May | contract | | \$200.00 | /module @ 50 km from gin | | | | 105.88 |
| Ginning charges | May | contract | | \$55.00 | /bale | | | | 495.00 |
| Levies | May | contract | | \$4.50 | /bale | | | | 40.50 |
| Consultant | May | contract | | | | | | | 60.00 |
| Refuge crop - cotton @ 10% | | | | | | | | | 257.29 |
| TOTAL COSTS: | | | | | | | | | 3,052 |

This budget should be used as a GUIDE ONLY and should be changed by the grower to take account of movements in crop and input prices, changes in seasonal conditions and individual farm characteristics. Estimated prices are GST exclusive.

NOTES:

MANAGEMENT:- Each grower is required to grow a refuge crop as part of preventative resistance management. Since the refuge crop is an integrated part of growing Roundup Ready Flex® Bollgard II® cotton, refuge crop costs have been included as part of the gross margin budget. For the purposes of this example, we have used irrigated cotton at 10% of the Bt cotton area. Please refer to the Monsanto Roundup Ready Flex® Bollgard II® Resistance Management Plan for more information on refuge crops and minimum requirements.

For more detailed information, see the Cotton CRC "Cotton Pest Management Guide 2011-12" at www.cottoncrc.org.au

SEED: Seed costs per kg will vary with the time of ordering and the seed treatment chosen.

HERBICIDES: Fallow herbicides have been substituted for cultivation during the winter to avoid soil compaction. To reduce the likelihood of herbicide resistance, rotate herbicide groups and weed management techniques.

*Use of a particular formulation does NOT imply recommendation of that formulation by NSW DPI
Always read chemical labels and follow directions, as it is your legal responsibility to do so.*

LICENCE FEES: * The technology licence fees for Bollgard II® for 2011-12 is \$315/ha per green hectare and \$79/ha for Roundup Ready Flex® (GST-exclusive). This example uses Monsanto Cotton Choices™ Option 1 which provides a discount on the technology licence fees for 2011-12. However you should choose the option which best suits your farming operation.

DEFOLIANT: Good conditions are required to get the best performance. The choice of defoliant and rate used depends on the moisture status of the plant and seasonal conditions.

LABOUR REQUIREMENTS: - labour is not costed in this budget. If labour costs \$21.00 /hr, total labour cost would be \$29.14, reducing the gross margin to \$3,031.00 /ha.

This does not include labour required to irrigate since this is more likely to be an overhead cost.

MACHINERY ASSUMPTIONS:

Tractor: 170 KW PTO (230 HP) and 200 KW engine (265 HP)

Machinery costs refer to variable costs of: fuel, oil, filters, tyres, batteries and repairs.

You may need to add overhead costs as well, please refer to the Tractor and Implement Costs Guide

IRRIGATION: Estimated water usage charge of \$31.75 per ML assumed, your charges may be different. Water pumping costs: calculated using a flood/furrow system with diesel powered pumping from surface supply.

Water requirements 7.00 ML/ha is sufficient to adequately irrigate cotton 4 out of 5 years. This assumes little useful rainfall during the growing season.



SURFACE IRRIGATED COTTON (Roundup Ready Flex®)

Grown as refuge crop for RR Flex® Bollgard II® crop

Farm Enterprise Budget Series - Northern Zone

Summer 2011-2012

1. GROSS MARGIN BUDGET:

| | | | | Sample Budget \$/ha | Your Budget \$/ha |
|-------------------------------|------|--------------|-------------------------------|---------------------|-------------------|
| INCOME: | | | | | |
| Lint - | 9.00 | bales/ha at | \$540.00 /bale (at gin)..... | \$4,860.00 | |
| Seed - | 3.24 | tonnes/ha at | \$215.00 /tonne (at gin)..... | \$696.60 | |
| A. TOTAL INCOME \$/ha: | | | | \$5,556.60 | |

VARIABLE COSTS:

see following page(s) for details

| | | |
|---------------------------------------|----------|-------------------|
| Cultivation..... | \$98.15 | |
| Sowing..... | \$112.96 | |
| Crop insurance..... | \$55.00 | |
| Fertiliser & application..... | \$263.89 | |
| Herbicide & application..... | \$181.95 | |
| Insecticide & application..... | \$457.04 | |
| Irrigation..... | \$310.73 | |
| Contract harvesting..... | \$316.76 | |
| Cartage to gin..... | \$105.88 | |
| Ginning charges..... | \$495.00 | |
| Licence fees..... | \$75.00 | |
| Levies..... | \$40.50 | |
| Other..... | \$60.00 | |
| B. TOTAL VARIABLE COSTS \$/ha: | | \$2,572.87 |

C. GROSS MARGIN (A-B) \$/ha:

\$2,984

D. GROSS MARGIN (A-B) \$/ML:

\$426

SENSITIVITY TABLES

2. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER HECTARE:

| Lint Yield bales/ha | Seed Yield t/ha | \$480 /bale \$175/t | \$510 /bale \$195/t | \$540 /bale \$215/t | \$570 /bale \$225/t | \$600 /bale \$235/t | Lint price Seed price |
|------------------------|--------------------|------------------------|------------------------|--------------------------------|------------------------|------------------------|-------------------------------------|
| 7.00 | 2.52 | \$1,378 | \$1,638 | \$1,899 | \$2,134 | \$2,369 | Gross Margin (\$/ha) |
| 8.00 | 2.88 | \$1,846 | \$2,144 | \$2,441 | \$2,710 | \$2,979 | |
| 9.00 | 3.24 | \$2,314 | \$2,649 | \$2,984 | \$3,286 | \$3,589 | |
| 10.00 | 3.60 | \$2,782 | \$3,154 | \$3,526 | \$3,862 | \$4,198 | |
| 11.00 | 3.96 | \$3,251 | \$3,660 | \$4,069 | \$4,439 | \$4,808 | |
| 12.00 | 4.32 | \$3,719 | \$4,165 | \$4,612 | \$5,015 | \$5,418 | |
| 13.00 | 4.68 | \$4,187 | \$4,671 | \$5,154 | \$5,591 | \$6,028 | |

3. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER MEGALITRE:

| Lint Yield bales/ha | Seed Yield t/ha | \$480 /bale \$175 /bale | \$510 /bale \$195 /bale | \$540 /bale \$215 /bale | \$570 /bale \$225 /bale | \$600 /bale \$235 /bale |
|------------------------|--------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 7.00 | 2.52 | \$197 | \$234 | \$271 | \$305 | \$338 |
| 8.00 | 2.88 | \$264 | \$306 | \$349 | \$387 | \$426 |
| 9.00 | 3.24 | \$331 | \$378 | \$426 | \$469 | \$513 |
| 10.00 | 3.60 | \$397 | \$451 | \$504 | \$552 | \$600 |
| 11.00 | 3.96 | \$464 | \$523 | \$581 | \$634 | \$687 |
| 12.00 | 4.32 | \$531 | \$595 | \$659 | \$716 | \$774 |
| 13.00 | 4.68 | \$598 | \$667 | \$736 | \$799 | \$861 |

SURFACE IRRIGATED COTTON (Roundup Ready Flex®)

Farm Enterprise Budget Series - Northern Zone

(diesel pump from river-regulated)

Summer 2011-2012

| CALENDAR OF OPERATIONS: | | | Machinery | | | Inputs | | | Total |
|---|-------|------------------------------------|-----------|---------------------------------------|----------------|---------|--------------|------------------|--------------|
| Operation | Month | | | Rate/ha | Band Width | Cost \$ | Total \$/ha | Total Cost \$/ha | |
| | | hrs /ha | \$ /hour | | | | | | |
| Stalk pull and mulch | May | contract | | | | | | 75.00 | |
| Middlebusting | Jul | 0.23 | 60.53 | 13.92 | | | 100% | 13.92 | |
| Fertiliser - anhydrous ammonia | Jul | with above | | 140KgN | 171 Kg | 100% | 0.90 153.66 | 153.66 | |
| Herbicide - glyphosate CT (450 g/L) | Jul | 0.03 | 55.78 | 1.67 | 1.0 L | 100% | 4.42 4.42 | 6.09 | |
| Wetter - non-ionic surfactant | Jul | with above | | | 0.2 L | 100% | 6.45 1.29 | 1.29 | |
| Fertiliser - MAP plus potassium blend | Aug | 0.15 | 61.53 | 9.23 | 100 Kg | 100% | 1.01 101.00 | 110.23 | |
| Herbicide - trifluralin (480 g/L) | Aug | 0.03 | 55.78 | 1.67 | 3.2 L | 100% | 5.87 18.78 | 20.46 | |
| Plus incorporation | Aug | 0.15 | 61.53 | 9.23 | | 100% | | 9.23 | |
| Pre irrigate | Sep | | | | 1.4 ML | 100% | 44.39 62.15 | 62.15 | |
| Planting - precision planter | Oct | 0.14 | 64.02 | 8.96 | | 100% | | 8.96 | |
| Planting- seed Roundup Ready® | Oct | with above | | | 13 kg | 100% | 8.00 104.00 | 104.00 | |
| Insecticide - imidacloprid | Oct | with above | | | seed treatment | | | | |
| Roundup Ready® Roundup | Nov | 0.03 | 55.78 | 1.67 | 1.2 kg | 100% | 8.00 9.60 | 11.27 | |
| Irrigate | Nov | | | | 1.0 ML | 100% | 44.39 44.39 | 44.39 | |
| Insecticide - endosulfan (350 g/L) (mirids) | Nov | 0.03 | 55.78 | 1.67 | 2.1 L | 40% | 8.88 7.46 | 9.13 | |
| Herbicide - shielded sprayer | Dec | 0.09 | 64.53 | 5.81 | | | | 5.81 | |
| Herbicide - glyphosate (450 g/L) | Dec | with above | | | 2.0 L | 40% | 4.42 3.54 | 3.54 | |
| Insecticide - emamectin (17 g/L) | Dec | 0.03 | 55.78 | 1.67 | 0.7 L | 30% | 69.90 14.68 | 16.35 | |
| Roundup Ready® Roundup | Dec | 0.03 | 55.78 | 1.67 | 1.2 kg | 100% | 8.00 9.60 | 11.27 | |
| Irrigate | Dec | | | | 1.0 ML | 100% | 44.39 44.39 | 44.39 | |
| Insecticide - spinosad 480g/L | Jan | aerial spray | | 20.00 | 0.2 L | 100% | 428.00 85.60 | 105.60 | |
| Irrigate | Jan | | | | 1.2 ML | 100% | 44.39 53.27 | 53.27 | |
| Roundup Ready® Roundup (shielded sprayer) | Jan | 0.09 | 64.53 | 5.81 | 1.0 kg | 60% | 8.00 4.80 | 10.61 | |
| Insecticide - indoxacarb (200 g/L) | Jan | aerial spray | | 20.00 | 0.85 L | 100% | 60.15 51.13 | 71.13 | |
| Insecticide - spinosad (480 g/L) | Jan | aerial spray | | 20.00 | 0.2 L | 100% | 428.00 85.60 | 105.60 | |
| Irrigate | Jan | | | | 1.2 ML | 100% | 44.39 53.27 | 53.27 | |
| Crop insurance | Jan | Premium depends on various factors | | | | | | 55.00 | 55.00 |
| Roundup Ready Flex® Licence fee * | Jan | | | | | | | 75.00 | 75.00 |
| Insecticide - indoxacarb (200 g/L) | Feb | aerial spray | | 20.00 | 0.85 L | 100% | 60.15 51.13 | 71.13 | |
| Insecticide - beta-cyfluthrin (25 g/L) | Feb | 0.03 | 55.78 | 1.67 | 0.8 L | 100% | 7.35 5.88 | 7.55 | |
| Insecticide - amitraz (200 g/L) | Feb | with above | | | 2.0 L | 100% | 10.53 21.06 | 21.06 | |
| Irrigate | Feb | | | | 1.2 ML | 100% | 44.39 53.27 | 53.27 | |
| Insecticide - chlorpyrifos (300 g/L) | Mar | aerial spray | | 20.00 | 3.0 L | 100% | 9.83 29.49 | 49.49 | |
| Defoliant - thidiazuron + diuron (120 + 60 g/L) | Apr | aerial spray | | 20.00 | 0.25 L | 100% | 132.00 33.00 | 53.00 | |
| Defoliant - crop oil | Apr | with above | | | 2.0 L | 100% | 3.91 7.82 | 7.82 | |
| Defoliant - ethepon (720 g/L) | Apr | with above | | | 1.3 L | 100% | 9.33 12.13 | 12.13 | |
| Defoliant - ethepon (720 g/L) | Apr | aerial spray | | 20.00 | 2.0 L | 100% | 9.33 18.66 | 38.66 | |
| Contract picking & module building | May | contract | | \$285/ha | | | | 285.00 | |
| Contract Module lifting | May | contract | | \$60.00 /module @ 17 bales per module | | | | 31.76 | |
| Contract cartage to gin | May | contract | | \$200.00 /module @ 50km from gin | | | | 105.88 | |
| Ginning charges | May | contract | | \$55.00 /bale | | | | 495.00 | |
| Consultant | May | contract | | | | | | 60.00 | |
| Levies | May | contract | | \$4.50 /bale | | | | 40.50 | |
| TOTAL COSTS: | | | | | | | | 2,573 | |

This budget should be used as a GUIDE ONLY and should be changed by the grower to take account of movements in crop and input prices, changes in seasonal conditions and individual farm characteristics. Estimated prices are GST exclusive.

NOTES: ® = registered Trade Mark

INSECTS: The selection of insecticides is highly dependent on the insect spectrum, growers should be aware this is a generic selection of products. growers should be mindful of IPM strategies when making product selections. Always refer to the Insecticide Resistance Management Strategy for Cotton when selecting insecticide products.

For more detailed information, see the Cotton CRC "Cotton Pest Management Guide 2011-12" at www.cottoncrc.org.au

HERBICIDES:- fallow herbicides have been substituted for cultivation during the winter to avoid compaction and conserve moisture. To reduce the likelihood of herbicide resistance, rotate herbicide groups and weed management techniques.

WEED MANAGEMENT: When a refuge needs cultivation, the Bollgard II® crop should be cultivated at the same time.

Use of a particular formulation name does NOT imply recommendation of that formulation by NSW DPI.

Always read chemical labels and follow directions, as it is your legal responsibility to do so.

MANAGEMENT:- this budget is typical of "back to back" cotton assuming the cotton crop is in a 2 year cotton - 1 year wheat rotation.

DEFOLIANT: Good condition are required to get the best performance. The choice of defoliant and rate used depends on the moisture status of the plant and seasonal conditions.

LABOUR REQUIREMENTS: - labour is not costed in this budget. If labour costs \$21.00 /hr, total labour cost would be \$24.68/ha, reducing the gross margin to \$2,959 /ha.

This does not include labour required to irrigate since this is more likely to be an overhead cost.

MACHINERY ASSUMPTIONS: Tractor: 170 KW PTO (230 HP) and 200 KW engine (265 HP)

Machinery costs refer to variable costs of: fuel, oil, filters, tyres, batteries and repairs.

You may need to add overhead costs as well, please refer to the Tractor and Implement Costs Guide

IRRIGATION: # Estimated water usage charge of \$31.75 per ML assumed, your charges may be different.
Water pumping costs: calculated using a flood/furrow system with diesel powered pumping from surface supply.

Water requirements 7.00 ML is sufficient to adequately irrigate cotton 4 out of 5 years. This assumes no useful rainfall during the growing season.