



# DRYLAND TRITICALE (Short fallow, no till)

## Farm Enterprise Budget Series - North East NSW

Winter 2009

### 1. GROSS MARGIN BUDGET:

**INCOME:**

3.00 tonnes/Ha@ \$173.00 /tonne (on farm)

| Standard Budget \$/Ha | Your Budget \$/Ha |
|-----------------------|-------------------|
| \$519.00              |                   |

Crop prices were correct at the time of writing (Mar 17 2009), world market volatility makes estimation of future pricing impractical.

**VARIABLE COSTS:**

See next page for detail

**A. TOTAL INCOME \$/Ha:**

|                 |  |
|-----------------|--|
| <b>\$519.00</b> |  |
|-----------------|--|

|                          |          |  |
|--------------------------|----------|--|
| Sowing.....              | \$57.60  |  |
| Fertiliser.....          | \$157.48 |  |
| Herbicide.....           | \$77.20  |  |
| Contract harvesting..... | \$64.32  |  |
| Levies.....              | \$5.29   |  |
| Crop Insurance.....      | \$10.64  |  |

**B. TOTAL VARIABLE COSTS \$/Ha:**

|                 |  |
|-----------------|--|
| <b>\$372.53</b> |  |
|-----------------|--|

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

|                 |  |
|-----------------|--|
| <b>\$146.47</b> |  |
|-----------------|--|

Water use efficiency example

Growing season rainfall (ie in-crop): mm  
 Stored fallow moisture: mm (25% of rainfall in fallow period assumed)

Early crop water use: mm  
 Total crop water use mm  
 Gross margin per mm  
 kg of grain per mm

|               |  |
|---------------|--|
| 317           |  |
| 75            |  |
| 90            |  |
| 302           |  |
| <b>\$0.48</b> |  |
| 9.93          |  |

Please refer to the "Water Use Efficiency in Northern NSW Winter Crop Enterprise Budgets" summary for more information on water use efficiency assumptions used at right.

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

| YIELD tonnes/Ha | ON FARM PRICE (\$/tonne) |          |                 |          |          |
|-----------------|--------------------------|----------|-----------------|----------|----------|
|                 | \$73 /t                  | \$123 /t | <b>\$173 /t</b> | \$223 /t | \$273 /t |
| 1.50            | -\$220                   | -\$147   | -\$74           | -\$2     | \$71     |
| 2.00            | -\$184                   | -\$88    | \$9             | \$106    | \$203    |
| 2.50            | -\$149                   | -\$28    | \$93            | \$214    | \$336    |
| <b>3.00</b>     | -\$123                   | \$22     | <b>\$167</b>    | \$313    | \$458    |
| 3.50            | -\$98                    | \$72     | \$242           | \$411    | \$581    |
| 4.00            | -\$72                    | \$122    | \$316           | \$510    | \$704    |
| 4.50            | -\$46                    | \$172    | \$390           | \$608    | \$826    |
| 5.00            | -\$20                    | \$222    | \$464           | \$707    | \$949    |

Gross margin is zero when income is reduced by 28%  
 or variable costs are increased by 39%

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## CALENDAR OF OPERATIONS:

| Operation   | Month | Machinery* |              |             | Inputs  |                  |             | Total Cost \$/Ha |
|---|-------|------------|--------------|-------------|---------|------------------|-------------|------------------|
|   |       | hrs/Ha     | Cost \$/hour | Total \$/Ha | Rate/Ha | Cost \$          | Total \$/Ha |                  |
| broadleaf and grass weed control eg: glyphosate 450 g/L | Dec   | 0.05       | 45.64        | 2.28        | 1.2 L   | 7.43/L           | 8.92        | <b>\$11.20</b>   |
| broadleaf weed control eg 2,4-D amine 300g/L            | Dec   | with above |              |             | 1.80 L  | 4.23/L           | 7.61        | <b>\$7.61</b>    |
| wetting agent   | Dec   | with above |              |             | 0.25 L  | 8.84/L           | 2.21        | <b>\$2.21</b>    |
| broadleaf and grass weed control eg: glyphosate 450 g/L | Jan   | 0.05       | 45.64        | 2.28        | 1.80 L  | 7.43/L           | 13.37       | <b>\$15.66</b>   |
| wetting agent   | Jan   | with above |              |             | 0.25 L  | 8.84/L           | 2.21        | <b>2.21</b>      |
| nitrogen fertiliser eg: Urea                            | Mar   | 0.17       | 66.34        | 11.28       | 100 kg  | 0.76/kg          | 76.00       | <b>\$87.28</b>   |
| broadleaf and grass weed control eg: glyphosate 450 g/L | Apr   | 0.05       | 45.64        | 2.28        | 1.00 L  | 7.43/L           | 7.43        | <b>\$9.71</b>    |
| wetting agent   | Apr   | with above |              |             | 0.25 L  | 8.84/L           | 2.21        | <b>2.21</b>      |
| sowing  | May   | 0.17       | 66.34        | 11.28       | 60 kg   | 0.77/kg          | 46.32       | <b>\$57.60</b>   |
| starter Fertiliser 12Z                                  | May   | with above |              |             | 60 kg   | 1.17/kg          | 70.20       | <b>\$70.20</b>   |
| grass weed control eg: diclofop-methyl 500g/L           | Jun   | 0.05       | 45.64        | 2.28        | 1.00 L  | 16.32/L          | 16.32       | <b>\$18.60</b>   |
| broadleaf weed control eg: MCPA LVE                     | Jul   | with above |              |             | 0.80 L  | 9.74/L           | 7.79        | <b>\$7.79</b>    |
| contract harvest  | Dec   | contract   |              | 64.32       |         |                  |             | <b>\$64.32</b>   |
| levies  |       |            |              |             | 1.02%   | of on-farm value |             | <b>\$5.29</b>    |
| crop insurance  |       |            |              |             | 2.05%   | of on-farm value |             | <b>\$10.64</b>   |

Input prices were correct at the time of writing (Mar 17 2009). Current fertiliser and chemical market uncertainty makes estimation of future pricing impractical.

## NOTES:

Growers should assess soil moisture profiles and fertility levels to assist with yield estimates.

**Soil type:** Adapted to a wide range of soil types but is a suitable crop for growing on light acid soils with moderate to high aluminium levels.

**Seed:** Seed price used above is for purchased seed; if using retained seed adjust budget accordingly.

**Rotation place:** Can be grown in rotation with oats or a legume crop such as lupins. Refer to NSW Department of Primary Industries "Winter Crop Variety Sowing Guide 2009" for detail on varieties.

**Weed control:** Weed control, if required, should be implemented within 6-8 weeks of sowing to avoid yield loss. Glyphosate 450g/L for fallow weed control. MCPA LVE for broadleaf winter weeds, and diclofop for ryegrass/ wild oats control. A wide range of herbicides can be used.

To reduce the likelihood of herbicide resistance, rotate herbicide groups and weed management techniques. Refer to the NSW DPI booklet "Weed Control in Winter Crops 2009" for options.

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

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

**\*Machinery** A tractor with 130 kW (175 HP) pto power and 146kW (196 HP) engine power is assumed. Machinery costs refer only to variable costs: fuel, oil, filters, tyres, batteries & repairs. Contract harvesting include an estimated fuel cost of \$3.24/ha (9m front).

**Labour** The labour required for machinery operations is 0.34 Hrs/Ha. Using a labour cost of \$18.51/hr, an additional \$15.62 can be deducted from the budget.

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.