



DRYLAND TRITICALE (Short fallow, no till)

Farm Enterprise Budget Series - North East NSW

Winter 2012

1. GROSS MARGIN BUDGET:

INCOME:

3.00 tonnes/ha@ \$150.00 /tonne (on farm)

| Standard Budget \$/ha | Your Budget \$/ha |
|-----------------------|-------------------|
| \$450.00 | |

Crop prices were correct at the time of writing (Feb 2012), world market volatility makes estimation of future pricing impractical.

VARIABLE COSTS:

See next page for detail

A. TOTAL INCOME \$/ha:

| | |
|-----------------|--|
| \$450.00 | |
|-----------------|--|

| | | |
|--------------------------|----------|--|
| Sowing..... | \$70.04 | |
| Fertiliser..... | \$139.26 | |
| Herbicide..... | \$68.56 | |
| Contract harvesting..... | \$71.24 | |
| Levies..... | \$4.59 | |
| Crop Insurance..... | \$9.23 | |

B. TOTAL VARIABLE COSTS \$/ha:

| | |
|-----------------|--|
| \$362.92 | |
|-----------------|--|

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

| | |
|----------------|--|
| \$87.08 | |
|----------------|--|

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 | |
| \$0.29 | |
| 9.93 | |

Please refer to the NSW DPI webpage

["About gross margin budgets"](#)

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) | | | | |
|-----------------|--------------------------|----------|-------------|----------|----------|
| | \$50 /t | \$100 /t | \$150 /t | \$200 /t | \$250 /t |
| 1.50 | -\$270 | -\$197 | -\$124 | -\$52 | \$21 |
| 2.00 | -\$245 | -\$149 | -\$52 | \$45 | \$142 |
| 2.50 | -\$221 | -\$100 | \$21 | \$142 | \$263 |
| 3.00 | -\$202 | -\$57 | \$89 | \$234 | \$380 |
| 3.50 | -\$183 | -\$13 | \$156 | \$326 | \$496 |
| 4.00 | -\$164 | \$30 | \$224 | \$418 | \$612 |
| 4.50 | -\$144 | \$74 | \$292 | \$510 | \$728 |
| 5.00 | -\$125 | \$117 | \$360 | \$602 | \$844 |

Gross margin is zero when income is reduced by 19%
or variable costs are increased by 24%

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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 | 54.96 | 2.75 | 1.2 L | 4.67/L | 5.60 | \$8.35 |
| broadleaf weed control eg 2,4-D amine 475 g/L | Dec | with above | | | 1.2 L | 5.82/L | 6.98 | \$6.98 |
| wetting agent | Dec | with above | | | 0.25 L | 7.47/L | 1.87 | \$1.87 |
| broadleaf and grass weed control eg: glyphosate 450 g/L | Jan | 0.05 | 54.96 | 2.75 | 1.8 L | 4.67/L | 8.41 | \$11.15 |
| wetting agent | Jan | with above | | | 0.25 L | 7.47/L | 1.87 | 1.87 |
| nitrogen fertiliser eg: Urea | Mar | 0.17 | 75.66 | 12.86 | 100 kg | 0.70/kg | 70.00 | \$82.86 |
| broadleaf and grass weed control eg: glyphosate 450 g/L | Apr | 0.05 | 54.96 | 2.75 | 1.0 L | 4.67/L | 4.67 | \$7.42 |
| wetting agent | Apr | with above | | | 0.25 L | 7.47/L | 1.87 | 1.87 |
| sowing | May | 0.17 | 75.66 | 12.86 | 60 kg | 0.95/kg | 57.18 | \$70.04 |
| fertiliser (eg Supreme 12Z) | May | with above | | | 60 kg | 0.94/kg | 56.40 | \$56.40 |
| grass weed control eg: diclofop-methyl 500g/L | Jun | 0.05 | 54.96 | 2.75 | 1.0 L | 16.35/L | 16.35 | \$19.10 |
| broadleaf weed control eg: MCPA LVE | Jul | with above | | | 0.8 L | 10.32/L | 8.26 | \$8.26 |
| wetter - non-ionic surfactant | Jul | with above | | | 0.25 L | 6.77/L | 1.69 | \$1.69 |
| contract harvest | Dec | contract | | 71.24 | | | | \$71.24 |
| levies | | | | | 1.02% | of on-farm value | | \$4.59 |
| crop insurance | | | | | 2.05% | of on-farm value | | \$9.23 |

Input prices were correct at the time of writing (Feb 2012). Current fertiliser and chemical market uncertainty makes estimation of future pricing impractical.

AGRONOMIC REQUIREMENTS:

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

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.

Sowing time involves a tradeoff between frost risk with early sowing and moisture/heat stress with later sowing.

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 DPI *Winter crop variety sowing guide 2012* 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 risk of herbicide resistance, rotate herbicide groups and weed management techniques.

Refer to the NSW DPI booklet *Weed Control in winter crops 2012* 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 \$21/hr, an additional \$17.72 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.