

## DRYLAND GRAIN SORGHUM (NO TILL)

Farm Enterprise Budget Series - North West NSW

Summer 2009-2010

### 1. GROSS MARGIN BUDGET:

#### INCOME:

2.00 tonnes/ha at \$160.00 /tonne (on farm).....

Standard Budget \$/ha	Your Budget \$/ha
\$320.00	

Cartage costs will vary with distance, so have not been included. The on-farm price is after cartage.

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

<b>\$320.00</b>	
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#### VARIABLE COSTS:

see following page for details

Sowing.....	\$33.21	
Fertilizer & application.....	\$0.00	
Herbicide & application.....	\$122.94	
Insecticide & application.....	\$0.00	
Harvesting.....	\$64.94	
Levies and insurance.....	\$14.58	

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

<b>\$235.67</b>	
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**C. GROSS MARGIN (A-B) \$/ha:**

<b>\$84.33</b>	
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### 2. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER HECTARE:

#### SENSITIVITY TABLE

YIELD tonnes/ha	On Farm Price						
	\$120 /t	\$140 /t	\$160 /t	\$180 /t	\$200 /t	\$220 /t	\$240 /t
1.00	-\$112	-\$92	-\$73	-\$53	-\$33	-\$13	\$7
1.50	-\$53	-\$24	\$6	\$36	\$65	\$95	\$125
1.75	-\$24	\$10	\$45	\$80	\$114	\$149	\$184
<b>2.00</b>	\$5	\$45	<b>\$84</b>	\$124	\$164	\$203	\$243
2.30	\$40	\$86	\$131	\$177	\$222	\$268	\$314
2.60	\$75	\$126	\$177	\$229	\$280	\$332	\$383
3.00	\$117	\$177	\$236	\$296	\$355	\$414	\$474

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CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	Cost		Rate/ha	Cost		Total	
		hrs /ha	\$/hour		\$	\$/ha		
Herbicide - glyphosate CT	Dec	contract ground spray	10.00	1.5 L	5.21	7.82	<b>17.82</b>	
Herbicide - 2,4-D i.p.a. 300g/L	Dec	with above		0.66 L	4.18	2.76	<b>2.76</b>	
Wetter - non-ionic surfactant	Dec	with above		0.2 L	6.86	1.37	<b>1.37</b>	
Herbicide - glyphosate CT	Jan	contract ground spray	10.00	1.2 L	5.21	6.25	<b>16.25</b>	
Herbicide - triclopyr	Jan	with above		0.08 L	39.99	3.20	<b>3.20</b>	
Wetter - non-ionic surfactant	Jan	with above		0.2 L	6.86	1.37	<b>1.37</b>	
Herbicide - glyphosate CT	Mar	contract ground spray	10.00	1.2 L	5.21	6.25	<b>16.25</b>	
Wetter - non-ionic surfactant	Mar	with above		0.2 L	6.86	1.37	<b>1.37</b>	
Herbicide - glyphosate CT	May	contract ground spray	10.00	1.2 L	5.21	6.25	<b>16.25</b>	
Herbicide - 2,4-D i.p.a. 300g/L	May	with above		0.66 L	4.18	2.76	<b>2.76</b>	
Wetter - non-ionic surfactant	May	with above		0.2 L	6.86	1.37	<b>1.37</b>	
Herbicide (residual) - atrazine #	Sep	contract ground spray	10.00	2 kg	10.70	21.40	<b>31.40</b>	
Herbicide - glyphosate CT	Sep	with above		1.2 L	5.21	6.25	<b>6.25</b>	
Wetter - non-ionic surfactant	Sep	with above		0.2 L	6.86	1.37	<b>1.37</b>	
Adjuvant - ammonium sulphate 417 g/L	Sep	with above		2.0 L	1.57	3.14	<b>3.14</b>	
Sowing - thiamethoxam treated seed	Oct	0.12	76.71	9.21	2.00 kg	12.00	24.00	<b>33.21</b>
Crop insurance *	Jan			2.60%			<b>8.32</b>	
Harvest	Mar	contract		64.94	per ha incl fuel		<b>64.94</b>	
Grains Research Levy				1.020%	of farm gate value		<b>3.26</b>	
GrainCorp Levy \$/t				\$1.50	per tonne		<b>3.00</b>	

### AGRONOMIC NOTES:

To reduce the likelihood of herbicide resistance, rotate herbicide groups and weed management techniques.

**Herbicides:** # High water rates for atrazine application will increase efficacy, 100L water/ha assumed.

**Fertiliser:** Fertiliser may be necessary where nutrient deficiencies are known to exist.

**Insects:** Insecticides are not generally used, only apply if necessary.

**Planting time:** Planting sorghum after the end of December significantly increases the chances of sorghum ergot, which can cause a substantial decline in yields and unsaleable grain.

**Insurance:** \* Varies with local government area and postcode, check with your insurer.

For further information refer to the NSW DPI "Summer Crop Production Guide 2009-10"

Harvest costs based on \$64.94 (including \$4.94/ha fuel) /ha for a crop up to 2.5 t/ha.

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

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

### LABOUR REQUIREMENTS:

- labour is not costed in this budget. If labour costs \$20.00 /hr, total labour cost would be \$3.00, reducing the gross margin to \$81 /ha.

### MACHINERY ASSUMPTIONS:

Tractor: 201 KW PTO (269 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

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.