



DRYLAND GRAIN SORGHUM (No-till)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

1. GROSS MARGIN BUDGET:

INCOME:

4.50 tonnes/ha at \$180.00 /tonne (on farm).....

Sample Budget \$/ha	Your Budget \$/ha
\$810.00	

8 t/ha is achievable on the Liverpool Plains, but an average range of 4-5 t/ha is more likely. Yields in other areas are on average 3.5-4 t/ha. Cartage costs vary, so have not been included. The on-farm price used is after cartage. Crop prices were correct at the time of writing (Sep 2011), world market volatility makes estimation of future pricing impractical.

A. TOTAL INCOME \$/ha:

\$810.00	
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VARIABLE COSTS:

see following page(s) for details

Sowing.....	\$45.52	
Fertiliser & application	\$148.20	
Herbicide & application.....	\$153.26	
Insecticide & application.....	\$34.12	
Harvesting.....	\$86.20	
Levies and insurance.....	\$49.11	

B. TOTAL VARIABLE COSTS \$/ha:

\$516.42	
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C. GROSS MARGIN (A-B) \$/ha:

\$293.58	
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SENSITIVITY TABLE

YIELD tonnes/ha	On Farm Price						
	\$140 /t	\$160 /t	\$180 /t	\$200 /t	\$220 /t	\$240 /t	\$260 /t
2.50	-\$139	-\$89	-\$40	\$10	\$59	\$109	\$158
3.00	-\$75	-\$16	\$44	\$103	\$162	\$222	\$281
4.00	\$52	\$131	\$210	\$289	\$369	\$448	\$527
4.50	\$115	\$205	\$294	\$383	\$472	\$561	\$650
5.00	\$179	\$278	\$377	\$476	\$575	\$674	\$773
6.00	\$306	\$425	\$544	\$662	\$781	\$900	\$1,019
7.00	\$433	\$572	\$710	\$849	\$987	\$1,126	\$1,265
8.00	\$560	\$719	\$877	\$1,035	\$1,194	\$1,352	\$1,510
9.00	\$687	\$865	\$1,044	\$1,222	\$1,400	\$1,578	\$1,756

DRYLAND GRAIN SORGHUM (No-till)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs /ha	Cost	Total	Rate/ha	Cost	Total	Cost
			\$/hour	\$/ha		\$	\$/ha	\$/ha
Herbicide - ground spray, glyphosate CT	Jan	0.05	54.60	2.73	1.5 L	4.42	6.63	9.36
Wetter - non-ionic surfactant	Jan	with above			0.2 L	6.45	1.29	1.29
Herbicide - paraquat + diquat	Jan	0.05	54.60	2.73	2.0 L	10.28	20.56	23.29
Herbicide - ground spray, glyphosate CT	Apr	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Herbicide - 2,4-D i.p.a. 300 g/L	Apr	with above			0.8 L	4.20	3.36	3.36
Wetter - non-ionic surfactant	Apr	with above			0.2 L	6.45	1.29	1.29
Herbicide - ground spray, glyphosate CT	Jun	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Wetter - non-ionic surfactant	Jun	with above			0.2 L	6.45	1.29	1.29
Herbicide - ground spray, glyphosate CT	Sep	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Wetter - non-ionic surfactant	Sep	with above			0.2 L	6.45	1.29	1.29
Seed - thiamethoxam + Concep II treated	Oct	0.18	74.08	13.33	2.6 kg	12.38	32.19	45.52
Fertiliser - Granulock SuPreme Z	Oct	with above			40.0 kg	1.08	43.20	43.20
Fertiliser - Urea (bulk)	Oct	with above			150 kg	0.70	105.00	105.00
Herbicide - ground, PSPE	Oct	0.05	54.60	2.73				2.73
Herbicide - S-metolachlor+atrazine	Oct	with above			3.2 L	14.09	45.09	45.09
Herbicide - fluroxypyr 333g/L	Nov	0.05	54.60	2.73	0.3 L	28.10	8.43	11.16
Wetter - non-ionic surfactant	Nov	with above			0.1 L	6.45	0.65	0.65
Insecticide - ground spray (contract)	Jan			16.00				16.00
Nuclear polyhedrosis virus (NPV)	Jan	with above			0.375 L	48.33	18.12	18.12
Crop insurance *	Jan			4.21%				34.10
Desiccant - aerial spray, glyphosate CT	Feb/Mar			20.00	1.6 L	4.42	7.07	27.07
Wetter - non-ionic surfactant	Feb/Mar	with above			0.2 L	6.45	1.29	1.29
Harvest #	Mar/Apr	contract		86.20	per ha incl fuel			86.20
Grains Research Levy		1.020%	of farm gate value				8.26	8.26
GrainCorp Levy \$/t				\$1.50	per tonne			6.75

AGRONOMIC NOTES:

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

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 \$21.00 /hr, total labour cost would be \$11.29/ha, reducing the gross margin to \$282 /ha.

MACHINERY ASSUMPTIONS: Tractor assumption: 130-140 KW PTO (173-180 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.



DRYLAND SUNFLOWERS (No-till, mono-unsaturated)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

1. GROSS MARGIN BUDGET:

INCOME:

1.60 tonnes/ha at \$563.00 /tonne (on farm).....

Sample Budget \$/ha	Your Budget \$/ha
\$900.80	

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

Crop prices were correct at the time of writing (Sep 2011), world market volatility makes estimation of future pricing impractical.

A. TOTAL INCOME \$/ha:

\$900.80	
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VARIABLE COSTS:

see following page(s) for details

Sowing.....	\$65.07	
Fertiliser & application.....	\$166.00	
Herbicide & application.....	\$84.96	
Insecticide & application.....	\$47.36	
Harvesting.....	\$66.20	
Levies and insurance.....	\$47.11	

B. TOTAL VARIABLE COSTS \$/ha:

\$476.70	
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C. GROSS MARGIN (A-B) \$/ha:

\$424.10	
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2. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER HECTARE:

(A) SENSITIVITY TABLE

YIELD tonnes/ha	On Farm Price						
	\$503 /t	\$523 /t	\$543 /t	\$563 /t	\$593 /t	\$623 /t	\$653 /t
0.70	-\$119	-\$105	-\$91	-\$77	-\$57	-\$36	-\$15
1.00	\$30	\$50	\$70	\$90	\$119	\$149	\$179
1.30	\$180	\$205	\$231	\$257	\$296	\$334	\$373
1.60	\$329	\$361	\$392	\$424	\$472	\$519	\$567
1.85	\$454	\$490	\$527	\$563	\$618	\$673	\$728
2.10	\$578	\$620	\$661	\$703	\$765	\$827	\$890
2.35	\$702	\$749	\$796	\$842	\$912	\$982	\$1,051

DRYLAND SUNFLOWERS (No-till, mono-unsaturated)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs /ha	Cost	Total	Rate/ha	Cost	Total	Total Cost \$/ha
			\$/hour	\$/ha		\$	\$/ha	
Herbicide - glyphosate CT	Jan	0.05	54.60	2.73	1.5 L	4.42	6.63	9.36
Wetter - non-ionic surfactant	Jan	with above			0.2 L	6.45	1.29	1.29
Herbicide - paraquat + diquat	Jan	0.05	54.60	2.73	2.0 L	10.28	20.56	23.29
Herbicide - glyphosate CT	Mar	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Wetter - non-ionic surfactant	Mar	with above			0.2 L	6.45	1.29	1.29
Herbicide - glyphosate CT	Jun	0.05	54.60	2.73	1.0 L	4.42	4.42	7.15
Herbicide - 2,4-D i.p.a. 300 g/L	Jun	with above			0.66 L	4.20	2.77	2.77
Wetter - non-ionic surfactant	Jun	with above			0.2 L	6.45	1.29	1.29
Herbicide - glyphosate CT	Sep	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Wetter - non-ionic surfactant	Sep	with above			0.2 L	6.45	1.29	1.29
Sowing - sunflower seed, treated	Sep	0.18	74.08	13.33	2.7 kg	19.16	51.73	65.07
Fertiliser - Urea (bulk)	Sep	with above			160 kg	0.70	112.00	112.00
Fertiliser - Granulock SuPreme Z	Sep	with above			50 kg	1.08	54.00	54.00
Herbicide - haloxyfop-R 520 g/L	Oct	0.05	54.60	2.73	0.15 L	103.00	15.45	18.18
Uptake oil	Oct	with above			0.50 L	5.96	2.98	2.98
Insecticide - alpha-cypermethrin 100 g/L EC	Dec	aerial spray		20.00	0.4 L	9.20	3.68	23.68
Insecticide - alpha-cypermethrin 100 g/L EC	Jan	aerial spray		20.00	0.4 L	9.20	3.68	23.68
Crop insurance **	Jan			4.21%				37.92
Harvest (contract) #	Mar	contract		66.20	per ha incl fuel			66.20
Grains Research Levy				1.02%	of farm gate value			9.19

AGRONOMIC NOTES:

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

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 \$21.00 /hr, total labour cost would be \$12.60, reducing the gross margin to \$412 /ha.

MACHINERY ASSUMPTIONS:

Tractor: 130-140 KW PTO (173-180 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



DRYLAND MAIZE (No-till, feed)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

1. GROSS MARGIN BUDGET:

INCOME:

3.75 tonnes/ha at \$268.00 /tonne (on farm).....

Sample Budget \$/ha	Your Budget \$/ha
\$1,005.00	

5.5 t/ha is achievable on the Liverpool Plains, but an average range of 3-4 t/ha is more likely. Yields in other areas are on average 2.5-3.5 t/ha. Cartage costs vary, so have not been included. The on-farm price used is after cartage.

Crop prices were correct at the time of writing (Sep 2011), world market volatility makes estimation of future pricing impractical.

A. TOTAL INCOME \$/ha:

\$1,005.00	
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VARIABLE COSTS:

see following page(s) for details

Sowing.....	\$174.13	
Fertiliser & application.....	\$203.40	
Herbicide & application.....	\$111.27	
Insecticide & application.....	\$0.00	
Harvesting.....	\$78.70	
Levies and insurance.....	\$49.55	

B. TOTAL VARIABLE COSTS \$/ha:

\$617.05	
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C. GROSS MARGIN (A-B) \$/ha:

\$387.95	
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2. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER HECTARE:

SENSITIVITY TABLE

YIELD tonnes/ha	On Farm Price					
	\$228 /t	\$248 /t	\$268 /t	\$298 /t	\$348 /t	\$398 /t
1.75	-\$201	-\$166	-\$132	-\$80	\$7	\$160
2.25	-\$88	-\$43	\$1	\$68	\$180	\$358
2.75	\$23	\$77	\$132	\$214	\$350	\$556
3.25	\$131	\$195	\$260	\$357	\$518	\$753
3.75	\$239	\$313	\$388	\$500	\$686	\$951
4.10	\$315	\$396	\$478	\$600	\$803	\$1,089
4.45	\$390	\$479	\$567	\$700	\$921	\$1,227
4.80	\$466	\$562	\$657	\$800	\$1,038	\$1,366
5.15	\$542	\$644	\$746	\$900	\$1,155	\$1,504
5.50	\$618	\$727	\$836	\$1,000	\$1,273	\$1,642

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.

DRYLAND MAIZE (No-till, feed)
Farm Enterprise Budget Series - North-East NSW
Summer 2011-2012

CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs /ha	Cost \$/hour	Total \$/ha	Rate/ha	Cost \$	Total \$/ha	Cost \$/ha
Herbicide - glyphosate CT	Jan	0.05	54.60	2.73	1.5 L	4.42	6.63	9.36
Wetter - non-ionic surfactant	Jan	with above			0.2 L	6.45	1.29	1.29
Herbicide - paraquat + diquat	Jan	0.05	54.60	2.73	2.0 L	10.28	20.56	23.29
Herbicide - glyphosate CT	Apr	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Wetter - non-ionic surfactant	Apr	with above			0.2 L	6.45	1.29	1.29
Herbicide - paraquat 250 g/L	Jul	0.05	54.60	2.73	1.2 L	6.78	8.14	10.87
Herbicide - glyphosate CT	Sep	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Wetter - non-ionic surfactant	Sep	with above			0.2 L	6.45	1.29	1.29
Sowing - thiamethoxam treated seed	Sep	0.18	74.08	13.33	12.0 kg	13.40	160.80	174.13
Fertiliser-* Granulock SuPreme Z	Sep	with above			60 kg	0.94	56.40	56.40
Fertiliser - Urea (bulk)	Sep	with above			210 kg	0.70	147.00	147.00
Herbicide - ground spray PSPE	Sep	0.05	54.60	2.73				2.73
Herbicide - s-metolachlor+atrazine	Sep	with above			3.2 L	14.09	45.09	45.09
Crop insurance **	Jan			4.21%				42.31
Harvest #	Apr	contract		78.70	per ha incl fuel			78.70
Grains Research Levy				0.72%	of farm gate value			7.24

AGRONOMIC NOTES:

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

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 \$21.00 /hr, total labour cost would be \$12.60, reducing the gross margin to \$375 /ha.

MACHINERY ASSUMPTIONS:

Tractor: 130-140 KW PTO (173-180 HP)

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

Note: harvest requires a corn front.

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.



DRYLAND MUNGBEANS (No-till, Double-crop)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

1. GROSS MARGIN BUDGET:

INCOME:

Yield	1.20 tonnes/ha	
1.06 tonnes/ha at	\$850.00 /tonne (clean seed, processing grade).....	\$897.60
0.14 tonnes/ha at	\$160.00 /tonne (gradings).....	\$23.04

Sample Budget \$/ha	Your Budget \$/ha
\$897.60	
\$23.04	

Crop prices were correct at the time of writing (Sep 2011), world market volatility makes estimation of future pricing impractical.

A grading percentage of 12% is assumed, but it will vary according to crop and harvest conditions.

A. TOTAL INCOME \$/ha:

\$920.64

VARIABLE COSTS:

see following page(s) for details

Sowing.....	\$65.83	
Fertiliser & application.....	\$50.50	
Herbicide & application.....	\$39.64	
Insecticide & application.....	\$35.11	
Harvesting.....	\$76.20	
Levies and insurance.....	\$49.35	
Grading & bagging.....	\$108.00	

B. TOTAL VARIABLE COSTS \$/ha:

\$424.63

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

\$496.01

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

SENSITIVITY TABLE

YIELD t/ha		Price					
gradings		\$140 /t	\$150 /t	\$160 /t	\$170 /t	\$180 /t	\$190 /t
	clean seed	\$750 /t	\$800 /t	\$850 /t	\$900 /t	\$950 /t	\$1,000 /t
0.08	0.62	\$99	\$130	\$161	\$193	\$224	\$255
0.11	0.79	\$215	\$255	\$295	\$335	\$376	\$416
0.13	0.92	\$302	\$349	\$396	\$443	\$490	\$537
0.14	1.06	\$389	\$442	\$496	\$550	\$603	\$657
0.17	1.23	\$505	\$567	\$630	\$693	\$755	\$818
0.19	1.41	\$621	\$692	\$764	\$835	\$907	\$979
0.20	1.50	\$679	\$755	\$831	\$907	\$983	\$1,059

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.

DRYLAND MUNGBEANS (No-till, Double-crop)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs /ha	Cost	Total	Rate/ha	Cost	Total	Total Cost \$/ha
			\$/hour	\$/ha		\$	\$/ha	
Harvest winter cereal crop	Nov							
Herbicide - glyphosate CT	Nov	0.05	54.60	2.73	1.5 L	4.42	6.63	9.36
Wetter - non-ionic surfactant		with above			0.2 L	6.45	1.29	1.29
Sowing: Seed + inoculum	Dec	0.18	74.08	13.33	25 kg	2.10	52.50	65.83
Fertiliser - Granulock SuPreme Z	Dec	with above			50 kg	1.01	50.50	50.50
Herbicide - haloxyfop-R 520 g/L	Jan	0.05	54.60	2.73	0.15 L	103.00	15.45	18.18
Uptake oil	Jan	with above			0.50 L	5.96	2.98	2.98
Crop insurance **	Jan			4.34%				39.96
Insecticide - indoxacarb	Jan	0.05	54.60	2.73	0.4 L	60.15	24.06	26.79
Insecticide - deltamethrin ULV	Feb	0.05	54.60	2.73	0.5 L	11.18	5.59	8.32
Desiccant- Roundup PowerMAX™	Mar	0.05	54.60	2.73	0.8 L	6.38	5.10	7.83
Harvest	Mar	contract		76.20	per ha incl fuel			76.20
Grains Research Levy				1.02%	of farm gate value			9.39
Grading & bagging	May	contract		\$90 /t				108.00

AGRONOMIC NOTES:

Mungbeans can be an ideal opportunity double crop following winter cereals. Soil moisture profiles must be replenished if satisfactory yields of high quality beans are to be produced. Best suited to loam and heavier soils.

Weeds: Select a paddock free of broadleaf weeds. Good weed control is essential. To reduce the likelihood of herbicide resistance, rotate herbicide groups and weed management techniques. Ensure weed escapes are controlled before they can set seed.

Pests: Closely monitor crops for thrips, mirids (from pre-budding and flowering), heliothis and green vegetable bug. Deltamethrin is used for green vegetable bug & mirid control and indoxacarb is used for heliothis control in this example.

Fertiliser: If applying phosphate fertiliser, use a fertiliser that contains good levels of sulfur as well, e.g. single superphosphate. Fertiliser requirements should be based on paddock records and soil tests.

Desiccation: Usually required to even up crop maturity across a paddock and to prevent additional flowering.

Harvest: Use air assist headers to reduce losses at harvest. Harvest costs based on \$70/ha for a crop up to 2.5 t/ha. Communicate with your buyer throughout the season and have storage options available.

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

For further information, refer to the NSW DPI Agfact, "Mungbeans" P4.2.19 and the NSW DPI "Summer Crop Production Guide 2011-12".

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

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

PRICE: - The price given is for processing grade mungbeans at the time of writing.

Consult marketing sources for more up to date price information.

LABOUR REQUIREMENTS: - labour is not costed in this budget. If labour costs \$21.00 /hr, total labour cost would be \$9.98, reducing the gross margin to \$486 /ha.

MACHINERY ASSUMPTIONS:

Tractor: 130-140 KW PTO (173-180 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.



DRYLAND COWPEAS (Caloona) (No-till)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

1. GROSS MARGIN BUDGET:

INCOME:

Yield			Sample Budget \$/ha	Your Budget \$/ha
	1.00	tonnes/ha		
	0.85 tonnes/ha at	\$760.00 /tonne (clean seed, ex-store).....	\$646.00	
	0.15 tonnes/ha at	\$150.00 /tonne (gradings).....	\$22.50	

A grading percentage of 15% is assumed, but it will vary according to crop and harvest conditions.

Crop prices were correct at the time of writing (Sep 2011), world market volatility makes estimation of future pricing impractical.

A. TOTAL INCOME \$/ha: **\$668.50**

VARIABLE COSTS:

see following page(s) for details

Sowing.....	\$33.73	
Fertiliser & application.....	\$40.00	
Herbicide & application.....	\$122.36	
Insecticide & application.....	\$22.31	
Harvesting.....	\$76.20	
Levies and insurance.....	\$35.83	
Cartage, grading & bagging.....	\$90.00	

B. TOTAL VARIABLE COSTS \$/ha: **\$420.43**

C. GROSS MARGIN (A-B) \$/ha: **\$248.07**

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

YIELD t/ha		Graded & Bagged Price					Gross Margin (\$/ha)
gradings		\$120 /t	\$135 /t	\$150 /t	\$160 /t	\$170 /t	
	clean seed	\$560 /t	\$660 /t	\$760 /t	\$810 /t	\$860 /t	
0.08	0.43	-\$124	-\$81	-\$38	-\$16	\$6	
0.11	0.60	-\$44	\$16	\$77	\$107	\$138	
0.13	0.72	\$16	\$89	\$162	\$199	\$236	
0.15	0.85	\$75	\$162	\$248	\$292	\$335	
0.19	1.06	\$175	\$283	\$391	\$445	\$500	
0.23	1.28	\$275	\$404	\$534	\$599	\$665	
0.26	1.45	\$355	\$501	\$648	\$722	\$796	
0.29	1.62	\$434	\$599	\$763	\$845	\$928	

DRYLAND COWPEAS (Caloona) (No-till)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs /ha	Cost	Total	Rate/ha	Cost	Total	Total Cost \$/ha
			\$/hour	\$/ha		\$	\$/ha	
Herbicide - glyphosate CT	Jan	0.05	54.60	2.73	1.5 L	4.42	6.63	9.36
Wetter - non-ionic surfactant	Jan	with above			0.2 L	6.45	1.29	1.29
Herbicide - paraquat + diquat	Jan	0.05	54.60	2.73	2.0 L	10.28	20.56	23.29
Herbicide - glyphosate CT	Mar	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Wetter - non-ionic surfactant	Mar	with above			0.2 L	6.45	1.29	1.29
Herbicide - paraquat	May	0.05	54.60	2.73	1.5 L	6.78	10.17	12.90
Herbicide - glyphosate CT	Sep	0.05	54.60	2.73	1.5 L	4.42	6.63	9.36
Wetter - non-ionic surfactant	Sep	with above			0.2 L	6.45	1.29	1.29
Herbicide - glyphosate CT	Nov	0.05	54.60	2.73	1.6 L	4.42	7.07	9.80
Wetter - non-ionic surfactant	Nov	with above			0.2 L	6.45	1.29	1.29
Herbicide - paraquat + diquat	Dec	0.05	54.60	2.73	2.0 L	10.28	20.56	23.29
Sowing: Seed + inoculum	Dec	0.18	74.08	13.33	12 kg	1.70	20.40	33.73
Fertiliser - Single super	Dec	with above			80 kg	0.50	40.00	40.00
Herbicide - haloxyfop-R 520 g/L	Jan	0.05	54.60	2.73	0.15 L	103.00	15.45	18.18
Uptake oil	Jan	with above			0.50 L	5.96	2.98	2.98
Crop insurance **	Jan			4.34%				29.01
Insecticide - methomyl 225 g/L	Mar	0.05	54.60	2.73	1.5 L	13.05	19.58	22.31
Harvest	Mar	contract		76.20	per ha incl fuel			76.20
Grains Research Levy				1.0%	of farm gate value			6.82
Grading & bagging	May	contract		\$90 /t				90.00

AGRONOMIC NOTES:

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

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

Harvest: Harvest management is crucial to ensure a high quality, high proportion clean seed yield.

Grading losses may vary substantially and depend upon harvesting management.

LABOUR REQUIREMENTS: - labour is not costed in this budget. If labour costs \$21.00 /hr, total labour cost would be \$15.23, reducing the gross margin to \$233 /ha.

MACHINERY ASSUMPTIONS:

Tractor: 130-140 KW PTO (173-180 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.



COTTON (Roundup Ready Flex® Bollgard II® - Single Skip)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

1. GROSS MARGIN BUDGET: INCOME:

			Sample Budget \$/ha	Your Budget \$/ha
Lint -	4.00 bales/ha at	\$520 */bale (at gin).....	\$2,080.00	
Seed -	1.44 tonnes/ha at	\$215 /tonne (at gin).....	\$309.60	

* \$20/bale reduction assumed due to quality reduction compared to irrigated cotton

Crop prices were correct at the time of writing (Sep 2011), world market volatility makes estimation of future pricing impractical.

A. TOTAL INCOME \$/ha: **\$2,389.60**

VARIABLE COSTS:

see following page(s) for details

	Bollgard II®	Your budget
Cultivation.....	\$18.46	
Sowing.....	\$61.76	
Crop insurance.....	\$46.84	
Fertiliser & application.....	\$121.79	
Herbicide & application.....	\$148.86	
Insecticide & application.....	\$37.53	
Contract harvesting.....	\$299.12	
Cartage to gin.....	\$47.06	
Ginning charges.....	\$220.00	
CA and Research Levy.....	\$18.00	
Licence fees.....	\$244.20	
Other (eg consultant).....	\$60.00	
Unsprayed cotton refuge crop, 10% of RR Bollgard II area.....	\$34.51	
B. TOTAL VARIABLE COSTS \$/ha:	1,358.13	

C. GROSS MARGIN (A-B) \$/ha: **\$1,031.47**

SENSITIVITY TABLES

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

Lint bales/ha	Seed t/ha	\$460 /bale \$175 /t	\$490 /bale \$195 /t	\$520 /bale \$215 /t	\$550 /bale \$225 /t	\$580 /bale \$235 /t	Lint price Seed price
2.00	0.72	-\$163	-\$88	-\$14	\$53	\$121	Gross Margin (\$/ha)
3.00	1.08	\$286	\$397	\$509	\$610	\$710	
4.00	1.44	\$734	\$883	\$1,031	\$1,166	\$1,300	
4.00	1.44	\$734	\$883	\$1,031	\$1,166	\$1,300	
4.50	1.62	\$958	\$1,125	\$1,293	\$1,444	\$1,595	
5.00	1.80	\$1,182	\$1,368	\$1,554	\$1,722	\$1,890	

COTTON (Roundup Ready Flex® Bollgard II® - Single Skip)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

Operation	Month	Machinery			Inputs				Total Cost \$/ha
		hrs /ha	Cost	Total	Rate/ha	Band Width	Cost	Total	
			\$/hour	\$/ha			\$	\$/ha	
Herbicide - glyphosate CT	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
Herbicide - trifluralin (480 g/L)	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
Urea incorporation	Aug	0.17	61.28	10.42	87 kg	100%	0.70	60.87	71.29
Fertiliser - MAP plus potassium blend	Aug	with above			50 Kg	100%	1.01	50.50	50.50
Crop insurance	Oct	Premium depends on various factors							46.84
Planting - precision planter	Oct	0.14	64.02	8.96		100%			8.96
Planting- seed Roundup Ready Flex® Bollgard II®	Oct	with above			10 kg	66%	8.00	52.80	52.80
Herbicide - Roundup Ready®	Nov	0.03	55.78	1.67	1.2 kg	100%	8.00	9.60	11.27
Cultivation - interrow	Nov	0.15	61.53	9.23		100%			9.23
Insecticide - fipronil (200g/L)	Nov	0.03	55.78	1.67	0.06 L	66%	349.35	14.53	16.20
Herbicide - Roundup Ready®	Dec	0.03	55.78	1.67	1.2 kg	100%	8.00	9.60	11.27
Herbicide - diuron (900 g/kg)	Dec	0.03	55.78	1.67	1.5 kg	66%	12.60	12.47	14.15
Herbicide - prometryn (500 g/L)	Dec	with above			2.20 L	66%	14.48	21.02	21.02
Herbicide - shielded sprayer	Jan	0.09	64.53	5.81					5.81
Herbicide - Roundup Ready®	Jan	with above			1.0 kg	100%	8.00	8.00	8.00
Insecticide - fipronil (200g/L)	Jan	0.03	55.78	1.67	0.06 L	66%	349.35	14.53	16.20
Insecticide - dimethoate (400g/L)	Feb	0.03	55.78	1.67	0.5 L	66%	10.49	3.46	5.14
Bollgard II stacked with Roundup Ready Flex® Licence fee *	Feb					66%		370.00	244.20
Defoliant - thidiazuron + diuron (120 + 60 g/L)	Mar	0.03	55.78	1.67	0.25 L	66%	132.00	21.78	23.45
Defoliant - crop oil	Mar	with above			2.0 L	66%	3.91	5.16	5.16
Defoliant - ethepon (720 g/L)	Mar	with above			1.5 L	66%	9.33	9.24	9.24
Defoliant - ethepon (720 g/L)	Mar	0.03	55.78	1.67	2.0 L	66%	9.33	12.32	13.99
Contract picking & module building	May	contract		\$285/hectare					285.00
Contract module lifting	May	contract		\$60.00 /module @ 17 bales per module					14.12
Contract module cartage to gin	May	contract		\$200 /module @ 50km from gin					47.06
Ginning charges	May	contract		\$55.00 /bale					220.00
Levies	May	contract		\$4.50 /bale					18.00
Consultant	May	contract							60.00
Refuge crop - unsprayed Roundup Ready Flex® cotton @ 10%									34.51
TOTAL COSTS:									1,358

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 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 unsprayed (i.e. no insecticides) Roundup Ready Flex® cotton at 10% of the Bollgard II® area. Please refer to the Monsanto 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: * 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 \$22.31, reducing the gross margin to \$1,009 /ha.

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

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.



COTTON (Roundup Ready Flex® - Refuge for Bollgard II®)

Farm Enterprise Budget Series - North East NSW

Summer 2011-2012

GROSS MARGIN BUDGET:

INCOME:

Lint: 0.00 bales/ha at /bale (at gin).....
Seed: 0.0 tonnes/ha at /tonne (at gin).....

Sample Budget \$/ha	Your Budget \$/ha
\$0.00	
\$0.00	

A. TOTAL INCOME \$/ha:

\$0.00	
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VARIABLE COSTS:

see Calendar of Operations below for details

Cultivation.....	\$43.02	
Sowing.....	\$61.76	
Crop insurance.....	\$0.00	
Fertiliser & application.....	\$71.29	
Herbicide & application.....	\$119.55	
Licence fees.....	\$49.50	

B. TOTAL VARIABLE COSTS \$/ha:

\$345.12	
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C. GROSS MARGIN (A-B) \$/ha:

(\$345.12)	
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CALENDAR OF OPERATIONS:		Machinery			Inputs				Total
Operation	Month	hrs /ha	Cost \$/hour	Total \$/ha	Rate/ha	Band Width	Cost \$	Total \$/ha	Cost \$/ha
Herbicide - glyphosate CT	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
Herbicide - trifluralin (480 g/L)	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
Urea incorporation	Aug	0.17	61.28	10.42	87 kg	66%	0.70	60.87	71.29
Cultivation - scarifier	Sep	0.17	61.28	10.42					10.42
Herbicide - trifluralin (480 g/L)	Sep	with above			3.2 L	100%	5.87	18.78	18.78
Planting - precision planter	Oct	0.14	64.02	8.96					8.96
Planting - seed	Oct	with above			10 kg	66%	8.00	52.80	52.80
Herbicide - fluometuron+prometryn (440 & 400 g/L)	Oct	with above			3.5 L	100%	18.18	63.63	63.63
Cultivation - inter-row	Nov	0.15	61.53	9.23					9.23
Herbicide - shielded sprayer	Dec	0.09	64.53	5.81					5.81
Herbicide - glyphosate (450 g/L)	Dec	with above			2.0 L	66%	4.42	5.83	5.83
Roundup Ready Flex® Licence fee *	Dec					66%		75.00	49.50
Slashing	Apr	0.20	70.73	14.15					14.15
TOTAL COSTS \$/HA:									345
TOTAL COSTS for 10% hectare:									34.51

AGRONOMIC NOTES:

MANAGEMENT:- Each grower is required to grow a refuge crop as part of the Resistance Management Plan for the Roundup Ready Flex® Bollgard II® cotton varieties.

* This examples 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.

For the purposes of this example, we have used unsprayed (i.e. no insecticides) conventional cotton at 10% of the Roundup Ready Flex® Bollgard II® area.

Please refer to the Monsanto Bollgard II® Resistance Management Plan for more information on refuge crops and minimum requirements.



DRYLAND SOYBEANS (No-till)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

1. GROSS MARGIN BUDGET:

INCOME:

1.50 tonnes/ha at \$500.00 /tonne

Sample Budget \$/ha	Your Budget \$/ha
\$750.00	

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

Higher yields may be possible in more eastern areas (e.g. Inverell)

Crop prices were correct at the time of writing (Sep 2011), world market volatility makes estimation of future pricing impractical.

A. TOTAL INCOME \$/ha:

\$750.00	
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VARIABLE COSTS:

see following page(s) for details

Sowing.....	\$48.33	
Fertiliser & application.....	\$50.50	
Herbicide & application.....	\$108.89	
Insecticide & application.....	\$78.63	
Harvesting.....	\$76.20	
Levies and insurance.....	\$40.20	

B. TOTAL VARIABLE COSTS \$/ha:

\$402.76	
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C. GROSS MARGIN (A-B) \$/ha:

\$347.24	
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2. EFFECT OF YIELD AND PRICE ON GROSS MARGIN PER HECTARE:

(A) SENSITIVITY TABLE

YIELD tonnes/ha	Price						
	\$410 /t	\$440 /t	\$470 /t	\$500 /t	\$530 /t	\$560 /t	\$590 /t
0.80	-\$70	-\$47	-\$23	\$1	\$25	\$48	\$72
1.00	\$11	\$40	\$70	\$100	\$129	\$159	\$189
1.25	\$112	\$149	\$186	\$224	\$261	\$298	\$335
1.50	\$214	\$258	\$303	\$347	\$392	\$436	\$481
1.75	\$315	\$367	\$419	\$471	\$523	\$575	\$627
2.00	\$417	\$476	\$535	\$595	\$654	\$713	\$773
2.25	\$518	\$585	\$652	\$718	\$785	\$852	\$919
2.60	\$660	\$737	\$814	\$892	\$969	\$1,046	\$1,123

DRYLAND SOYBEANS (No-till)

Farm Enterprise Budget Series - North-East NSW

Summer 2011-2012

CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs /ha	Cost	Total	Rate/ha	Cost	Total	Cost
			\$/hour	\$/ha		\$	\$/ha	\$/ha
Herbicide - glyphosate CT	Jan	0.05	54.60	2.73	1.5 L	4.42	6.63	9.36
Wetter - non-ionic surfactant	Jan	with above			0.2 L	6.45	1.29	1.29
Herbicide - paraquat + diquat	Jan	0.05	54.60	2.73	2.0 L	10.28	20.56	23.29
Herbicide - glyphosate CT	Mar	0.05	54.60	2.73	1.5 L	4.42	6.63	9.36
Herbicide - 2,4-D i.p.a 300 g/L	Mar	with above			0.8 L	4.20	3.36	3.36
Wetter - non-ionic surfactant	Mar	with above			0.2 L	6.45	1.29	1.29
Herbicide - paraquat 250 g/L	May	0.05	54.60	2.73	1.6 L	6.78	10.85	13.58
Herbicide - glyphosate CT	Aug	0.05	54.60	2.73	1.0 L	4.42	4.42	7.15
Wetter - non-ionic surfactant	Aug	with above			0.2 L	6.45	1.29	1.29
Herbicide - glyphosate CT	Sep	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Wetter - non-ionic surfactant	Sep	with above			0.2 L	6.45	1.29	1.29
Herbicide - glyphosate CT	Nov	0.05	54.60	2.73	1.0 L	4.42	4.42	7.15
Wetter - non-ionic surfactant	Nov	with above			0.2 L	6.45	1.29	1.29
Sowing: Seed + inoculum	Dec	0.18	74.08	13.33	20 kg	1.75	35.00	48.33
Fertiliser - Granulock SuPreme Z	Dec	with above			50 kg	1.01	50.50	50.50
Herbicide - haloxyfop-R 520 g/L	Jan	0.05	54.60	2.73	0.15 L	103.00	15.45	18.18
Uptake oil	Oct	with above			0.50 L	5.96	2.98	2.98
Crop insurance **	Jan			4.34%				32.55
Insecticide - deltamethrin ULV	Feb	0.05	54.60	2.73	2.5 L	11.18	27.95	30.68
Insecticide - deltamethrin ULV	Mar	aerial spray		20.00	2.5 L	11.18	27.95	47.95
Harvest (contract) #	Apr	contract		76.20	per ha incl fuel			76.20
Grains Research Levy				1.02%	of farm gate value			7.65

AGRONOMIC NOTES:

Sowing: Dryland soybeans can be a risky crop to grow. Sow only in most favoured areas on full sub-soil moisture profiles.

Fertiliser: Fertiliser requirements should be based on paddock records and soil tests.

Insects: Closely monitor for green vegetable bug and heliothis. Deltamethrin is used for green vegetable bug control in this example.

Weeds: Select a paddock free of broadleaf weeds. To reduce the likelihood of herbicide resistance, rotate herbicide groups and weed management techniques. Ensure weed escapes are controlled before they can set seed. Paraquat + diquat is included as a double-knock for herbicide resistance management.

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

Harvest: Crops that have poor grain prospects at flowering can be turned into good quality hay.

Harvest costs based on \$70/ha for a crop up to 2.5 t/ha.

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

For further information, refer to the the NSW DPI "Summer Crop Production Guide 2011-12", the NSW DPI Agfact, "Soybeans" P5.2.6 and Primefact- Soybeans: Inland Northern NSW Planting Guide

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

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 \$21.00 /hr, total labour cost would be \$16.54, reducing the gross margin to \$331 /ha.

MACHINERY ASSUMPTIONS:

Tractor: 130-140 KW PTO (173-180 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.



PERENNIAL TROPICAL GRASS PASTURE

Farm Enterprise Budget Series - Northern NSW

Chromosols (red soils)

Summer 2011-2012

<u>1. ESTABLISHMENT - Prepared Seedbed</u>				Sample Budget	Your Budget
VARIABLE COSTS:				\$/ha	\$/ha
Machinery Operations					
<u>Month</u>	<u>Operation</u>	<u>Tractor time</u>	<u>Cost</u>		
		(hrs/ha)	(\$/unit)		
July	Chisel plough	0.22	55.33 \$/hr	\$12.17	
September	Scarify	0.17	53.08 \$/hr	\$9.02	
	Harrow	0.17	53.08 \$/hr	\$9.02	
October	Herbicide, pre-sowing	0.05	54.60 \$/hr	\$2.73	
	Glyphosate CT	1.5 L	4.42 /L	\$6.63	
	Wetter with glyphosate	0.2 L	6.45 /L	\$1.29	
	Sow	0.17	75.30 \$/hr	\$12.80	
	SF25	150 kg/ha	0.50 /kg	\$75.00	
Bare seed (coated seed will require a higher rate per ha)					
Premier Digit grass	2.0 kg/ha	@	\$17.99 /kg	\$35.98	
Rhodes grass	1.0 kg/ha	@	\$10.10 /kg	\$10.10	
B. Total Variable Costs				\$174.75	

<u>2. MAINTENANCE (every 2 years)</u>				Sample Budget	Your Budget
VARIABLE COSTS:				\$/ha	\$/ha
Machinery Operations					
<u>Month</u>	<u>Operation</u>				
April	Topdress fertiliser	contract spread @ \$80/t		\$10.00	
Fertiliser					
- Sulphate of Ammonia	125 kg/ha	@	\$0.28 /kg	\$35.00	
Cost every 2 years				\$45.00	
B. Total Variable Costs \$/ha/year				\$22.50	

NOTES:

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

Preparation: This budget does not allow for costs prior to pasture establishment, such as forage oats crops.

Fertiliser: Fertiliser requirements should be based on paddock records and soil tests. Nitrogen fertiliser may need to be used if there is no legume in the pasture being sown.

Costs vary widely across the region, depending on the objective of the enterprise, sowing time or location.

Different soils have different requirements in terms of fertiliser rates.

Pasture varieties: The varieties in the budget are an example only, check pasture variety recommendations for your rainfall zone and soil type.

For detailed information please refer to other publications on pasture production, including "Pasture Production for Livestock" or the "Pasture Planner" on the NSW DPI website (www.dpi.nsw.gov.au/agriculture), which has extensive information on varieties and their suitability to each zone of NSW.

Suggested average planting establishment success rates:

High rainfall zone (east of Moree/Newell Highway) 2 in 3 years

Medium rainfall zone (west of Moree/Newell Highway) 2 in 3 years

Low rainfall zone (Walgett) 1 in 4 years

Machinery - Tractor pto power: 57 KW PTO (76 HP) AND 63 KW ENGINE (86 HP)

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

You may need to add overhead costs as well.



Dryland Hybrid Forage Sorghum/Sudan Grass

Farm Enterprise Budget Series - North East NSW

Summer 2011-2012

Steers purchase weight and price

\$1.90 per kg live @ 260 kg = \$494.00 per head

Steers finished weight and price

\$1.95 per kg live @ 330 kg = \$643.50 per head

Dry matter t/ha 5.2
Steers/ha 5.0

GROSS MARGIN BUDGET:

INCOME - GRAZING

Grazing (will vary substantially depending on stock type, seasonal conditions, crop growth & grazing period)

5.0 hd/ha @ 0.90 kg/day x \$1.95/kg liveweight

i.e. 330 kg/hd @ \$644/hd

Sample Budget	Your Budget
\$/ha	\$/ha

\$3,217.50	
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A. TOTAL INCOME \$/ha:

\$3,217.50	
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VARIABLE COSTS: see following page for details

Establishment cost (seed, fertiliser, herbicides).....

Cattle Variable costs - Purchase store steers, 260 kg @ \$1.90/kg = \$494/hd.....

Drench, 5-in-1 vaccine, sulphur blocks..... \$ 4.64 \$/hd

Supplement..... \$ - \$/hd

Commission..... 5.0% of cattle sales \$160.88

Industry Levies..... \$ 5.50 \$/hd \$27.50

Yard Dues..... \$ 3.00 \$/hd \$15.00

Freight..... \$ 20.00 \$/hd \$100.00

Interest on up-front costs..... 10.0% 78 days \$59.57

\$302.24	
\$2,470.00	
\$23.18	
\$ -	
\$160.88	
\$27.50	
\$15.00	
\$100.00	
\$59.57	

B. TOTAL VARIABLE COSTS \$/ha:

\$3,158.37	
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C. GROSS MARGIN (A-B) \$/ha:

\$59.13	
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D. GROSS MARGIN (A-B) \$/head:

\$11.83	
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SENSITIVITY TABLE: Effect of livestock prices on gross margin per hectare

Purchase Price \$/kg	Selling Price				
	\$1.85 /kg	\$1.90 /kg	\$1.95 /kg	\$2.00 /kg	\$2.05 /kg
1.75	\$89	\$172	\$254	\$337	\$419
1.80	\$24	\$107	\$189	\$272	\$354
1.85	-\$41	\$42	\$124	\$207	\$289
1.90	-\$106	-\$23	\$59	\$142	\$224
1.95	-\$171	-\$88	-\$6	\$77	\$159
2.00	-\$236	-\$153	-\$71	\$12	\$94
2.05	-\$301	-\$218	-\$136	-\$53	\$29

SENSITIVITY TABLE: Effect of weight gain and selling price on gross margin per hectare

Weight gain kg/day	Selling Price				
	\$1.85 /kg	\$1.90 /kg	\$1.95 /kg	\$2.00 /kg	\$2.05 /kg
0.75	-\$214	-\$134	-\$55	\$25	\$105
0.80	-\$178	-\$97	-\$17	\$64	\$144
0.85	-\$142	-\$60	\$21	\$103	\$184
0.90	-\$106	-\$23	\$59	\$142	\$224
0.95	-\$70	\$14	\$97	\$181	\$264
1.00	-\$34	\$51	\$135	\$219	\$304
1.05	\$2	\$87	\$173	\$258	\$344

Assumptions

Dryland Hybrid Forage Sorghum/Sudan Grass

No till

Summer 2011-2012

CALENDAR OF OPERATIONS:		Machinery			Inputs			Total
Operation	Month	hrs /ha	Cost	Total	Rate/ha	Cost	Total	Total Cost
			\$/hour	\$/ha		\$	\$/ha	
Herbicide - ground spray, glyphosate CT	Jan	0.05	54.60	2.73	1.5 L	4.42	6.63	9.36
Wetter - non-ionic surfactant	Jan	with above			0.2 L	6.45	1.29	1.29
Herbicide - paraquat + diquat	Jan	0.05	54.60	2.73	2.0 L	10.28	20.56	23.29
Herbicide - ground spray, glyphosate CT	Apr	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Herbicide - 2,4-D i.p.a. 300 g/L	Apr	with above			0.8 L	4.20	3.36	3.36
Wetter - non-ionic surfactant	Apr	with above			0.2 L	6.45	1.29	1.29
Herbicide - ground spray, glyphosate CT	Jun	0.05	54.60	2.73	1.0 L	4.42	4.42	7.15
Wetter - non-ionic surfactant	Jun	with above			0.2 L	6.45	1.29	1.29
Herbicide - ground spray, glyphosate CT	Sep	0.05	54.60	2.73	1.2 L	4.42	5.30	8.03
Wetter - non-ionic surfactant	Sep	with above			0.2 L	6.45	1.29	1.29
Fertiliser - Urea (bulk)	Oct	with above			180 kg	0.70	126.30	126.30
Seed - thiamethoxam	Nov	0.18	74.08	13.33	2.6 kg	12.38	32.19	45.52
Fertiliser - Granulock SuPreme Z	Nov	with above			40.0 kg	1.08	43.20	43.20
Herbicide - ground spray	Nov	0.05	54.60	2.73				2.73
Herbicide - atrazine 600 g/L	Nov	with above (PSPE)			3.0 L	6.70	20.10	20.10
25g/day over 78 days"								Total \$/ha \$302.24

Steers on forage sorghum (with \$3,158/ha variable costs)

Purchase Price \$/kg	Selling Price		
	\$1.85 /kg	\$1.95 /kg	\$2.05 /kg
\$1.75 /kg	\$89	\$254	\$419
\$1.90 /kg	-\$106	\$59	\$224
\$2.05 /kg	-\$301	-\$136	\$29

