

Farm Gross Margin and Enterprise Planning Guide



A gross margin template for crop and livestock enterprises









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Farm Gross Margin and Enterprise Planning Guide 2017

A gross margin template for crop and livestock enterprises

- Provides representative gross margins for all major extensive crop and livestock enterprises across South Australia
- Compares the sensitivity of profit of enterprises to a change in production and price
- Includes a comprehensive list of major cropping and livestock input costs

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DISCLAIMER

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Published February 2017

Farm Gross Margin and Enterprise Planning Guide 2017

The South Australian Grains Industry Trust, in association with Primary Industries and Regions SA (PIRSA) and the Grains Research and Development Corporation are pleased to again produce this annual publication on expected Gross Margins for broadacre cropping and livestock enterprises in South Australia. It incorporates latest information on input and output pricing to give estimates of the relative profitability of different farm enterprises, as an aid to decision making in enterprise selection.

Each year farmers are confronted with an array of challenges brought on by the vagaries of weather, production and marketing. In 2016, growing season rainfall across the state was quite reasonable culminating with some excellent spring rainfall. Good agronomy has seen production records fall across the state. At the same time, however, certain areas were severely impacted by storms and frost. A further downside was oversupplied world markets feeding back significantly lower cereal prices to growers. In the livestock area, seasonal conditions generally allowed stock enterprises to perform well, the beef industry, in particular, continuing to enjoy a long overdue price spike.

There have been subtle but significant changes in crop diversity over the past decade. Traditionally, virtually all rotations in SA were cereal based, with wheat largely king. However, recently we have seen the emergence of the concept of wheat as a break crop to more valuable alternatives. Examples of this are canola on Lower Eyre Peninsula and lentils on Yorke Peninsula. Integral to this evolution has been the adoption of new and/or cheaper technologies such as herbicide tolerant varieties and cheaper fungicides.

This reclassification of alternative crops from 'break crops' to 'rotation crops' has come from continued evidence as to their profitability, even in lower rainfall districts. This was again seen in 2016, with instances of rotation crops such as lentils returning in some cases more than the land value on which they were grown.

Under this new regime, it has become even more critical to assess the potential profitability of alternatives when making enterprise selection decisions. Clearly, while this remains an area for individual decision making for each farm business, it is also clear that tightening margins are driving the need for a more robust examination of the risks and rewards of the various alternatives.

We believe that a healthy examination of gross margins of alternative enterprises is an effective tool in assisting with the process. To this end, we are pleased to be involved in the evolution of the Excel based version of the Farm Gross Margin Guide. This tool has all the normal practices for enterprises pre-loaded into an editable version which can be quickly and easily adjusted to represent individual farmer circumstance. This allows the incorporation of individuals own beliefs and judgements in producing their relevant numbers to aid decision making.

In farm business management, the focus is on getting the most from existing land and assets. The three partners in this publication have important roles in this process. GRDC support a number of initiatives in this area including Farm Business Updates, Newsletters and Factsheets. The South Australian Grain Industry Trust (SAGIT) invested \$2.3 million in new projects in 2016/17 supporting research crucial to advancing the SA grain industry. Rural Solutions SA's purpose is to assist primary industries and regions to grow, innovate and maximise their economic growth potential.

This guide is one of few publications that provide gross margins for both crops and livestock enterprises across the range of South Australian rainfall zones.

The South Australian Grain Industry Trust and the Grains Research and Development Corporation have pleasure in partnering with PIRSA's Rural Solutions SA to produce and distribute this guide as a valuable aid in your decision making.

IMPORTANT NOTE: An editable Excel version of this guide has been produced which allows easy adjustments of these Gross Margins to individual circumstances. Please visit the SAGIT, GRDC or PIRSA websites to download the Excel version.





Michael Treloar Chairman SAGIT



Daniel Casement Executive Director, Rural Solutions SA









Soil pH and EC Mapping Technology

Mapping your soil pH variation across paddocks can help you reduce liming costs of acid soils and improve production.

The Veris pH and EC (electrical conductivity) mapping machine, operated by an experienced Rural Solutions SA soil consultant, can measure and map the spatial variation of pH and EC on your farm, vineyard or horticultural block. pH mapping can identify where lime is needed and EC mapping can indicate sub-soil constraints.

Mapping starts at \$12/hectare plus travel costs to and from the site.

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Introduction

"The key task of farm management is making choices between alternatives. Farm management analysis is about analysing those choices (and) encompasses considering alternative actions under risky and uncertain circumstances." Malcolm, B., Makeham, J. and Wright, V. 2005, 'The Farming Game', Cambridge University Press

The choice of enterprises within a farm system remains a complex decision with a range of possible scenarios. There is generally no best bet system - differences in climate, soil type, market access, labour and management all contribute to the need for land managers to negotiate a system which fits their individual needs. A general outcome being sort from the farming system is profit maximisation at an acceptable level of risk.

The gross margin for a farm enterprise is one measure of profitability that is a useful aid to enterprise planning. The calculation of Gross Margins can be the starting point for construction of cash flow budgets and assessment of whole farm profitability. They can also be used to assist in assessing the opportunity to develop new farm enterprises.

What are Gross Margins?

Gross margin profit is the difference between the annual gross income for that enterprise and the variable costs directly associated with the enterprise.

In constructing gross margins, fixed (overhead) costs are ignored, as it is considered that they will be incurred regardless of the level of the enterprise undertaken.

The gross margin of different enterprises should not be compared if they have different overhead costs.

The direct comparison of Gross Margins is most useful when the various alternatives fit into the same part of the rotation e.g. the cereal or legume phase. The Gross Margins in this booklet have been grouped on this basis.

The base gross margins included in this book should be adjusted as required for commodity prices, yield, input costs and input items. These items vary considerably between different locations and different farm businesses.

- Compare the relative
 profitability of current farm
 enterprises, paddocks or rotations
- Estimate changes in enterprise profit caused by changes in price, cost or yields
- Pinpoint high cost or low income areas in the existing farm plan
- Evaluate the profitability of a re-organisation of the farm enterprise mix

Treatment of machinery

It is assumed that most machinery items (tractors, seeders, sprayers, harvesters etc.) are owned by the farm business. In each gross margin in this guide, the operating costs (fuel and repairs) have been included based on the number of machinery passes specified. *No allowance is included in the gross margin for machinery ownership costs such as depreciation or opportunity cost of capital.* When calculating enterprise profitability, these ownership costs need to be included. An alternative is to include all machinery costs at full contract rates.

Limitations of Gross Margins

The gross margins prepared within this publication have been designed to represent 'average case scenarios' within the respective rainfall zones of South Australia. They should be treated strictly as a **base guide only** and adapted by users for their particular situations.

Gross margins are best used to compare enterprises that make use of the same resources on the property. They cannot be used where varying capital input is needed for an enterprise. Cropping and livestock gross margins can only be compared if all capital resources are already on the property.

Estimates of inputs and production can vary from what actually occurs. Although a crop might have the highest gross margin, it might be the most sensitive to variation. Commodity prices, seasonal conditions, pests and disease can significantly affect the eventual gross margin. Risk can be assessed by comparing gross margins calculated with varying values for an input.

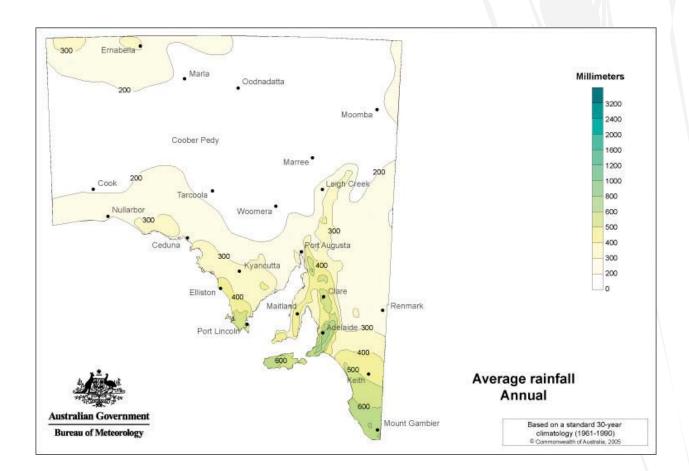
Sensitivity analysis tables are included in the guide to help determine the impact on the gross margin of significant changes in yield and price.

Agronomic information including chemical rates are provided as a guide only and exact agronomic recommendations will vary with location, soil type and a number of other factors.

Gross margins have been broadly delineated into production zones based on rainfall. Average annual rainfall zones have been classified as 'Low Rainfall' (<350 mm), 'Medium Rainfall' (350 – 400mm) and 'High Rainfall' (>400mm).

KEY POINT

Make your own adjustments to the gross margins in this book using the Excel editable version



Using Gross Margins for Farm Planning

Gross margins are just one component of a whole range of factors which go into enterprise selection for paddocks and zones on a farming property. There are other core characteristics of farming systems which potentially contribute to success over time. These include:

1. Appropriate level of income diversification

Virtually all cropping systems in South Australia involve some level of diversification. The traditional approach has been to include livestock although most farm systems in more favoured cropping locations have moved away from livestock. These areas tend to have a more diversified range of crop options than lower rainfall systems.

2. Adoption of right rotations, along with attention to detail

"Right rotations pay- they don't cost". This catch cry from the Right Rotations initiative in the 1980's continues to be relevant. Appropriate crop sequencing involves decisions around weed, disease and nutrition implications along with other considerations such as herbicide residues, carry-over of water from previous crops etc. There is also no substitute for good agronomy and/or livestock husbandry.

3. Understanding and acknowledging comparative advantage

This applies both to the business location and the technical and personal characteristics of business managers. Some crops are just not suitable to be grown in certain areas, and some people just should not run livestock! Understanding and working with variations in land capability across farms is important.

4. Meeting market requirements

Our mixed farming systems in SA have traditionally produced grain and livestock products which generally have had good demand and acceptance on world markets. The caveat here is that even though market acceptance is good, difficulties can arise when supply and demand get out of balance resulting in poor prices which test farm business profitability.

Gross Margins on their own do not make the decision on enterprise selection across the property. Each activity undertaken on a farming property will have an impact on other activities:

- Some may be complimentary such as cropping enterprises which provide a feed base to livestock through crop residues
- Crops planted in one year will have a rotational effect on subsequent crops (both positive (e.g. cereals on legumes) and negative (e.g. canola on canola)

For more information on the use of Gross Margin analysis, refer to the following GRDC publications:

Farm Financial Tool- Crop Gross Margin Budget

http://www.grdc.com.au/GRDC-FS-FFT-CropGrossMarginBudget

Farm Financial Tool- Livestock Gross Margin Budget

http://www.grdc.com.au/GRDC-FS-FFT-LivestockGrossMarginBudget

Calculating Your Own Gross Margins

The gross margins in this guide are designed to provide a template only, for users to adapt to their own situation, and should not be relied upon as representative of any one particular situation.

The Gross Margins shown in this publication are designed to represent a fair estimate of returns available from cropping and livestock enterprises across the cropping regions of South Australia using good management practices. However, clearly, expected outputs along with inputs (e.g. rates and types of fertiliser and weed control treatments) will vary depending on individual circumstances.

An Excel based editable version of the Gross Margins shown in this guide is available for download from the following websites:

www.grdc.com.au/FarmGrossMarginGuide

www.pir.sa.gov.au/consultancy/farm gross margins and enterprise planning guide

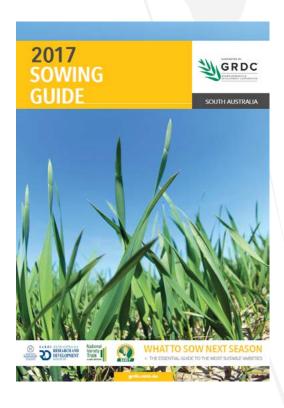
www.sagit.com.au/

Using the Excel version allows for easy adjustments of the pre-loaded information. Remember that these calculations are not meant to be an exact science - **roughly right is better than precisely wrong!** Use your own estimates when the values vary significantly from those included in the example.

Calculating the break-even yield needed to cover variable costs will give some indication of the riskiness or exposure of the particular enterprise. Remember, of course, that there are many other costs (in addition to the variable costs) which need to be covered before a profit is made. Such costs include overhead costs, depreciation, interest and labour and management. Reference to the sensitivity tables will provide further information on how the returns from the enterprise are expected to respond to a range of prices and yields.

2017 South Australian Crop Variety Sowing Guide

This guide, compiled by officers with SARDI and sponsored by SAGIT, PIRSA and GRDC provides information on appropriate varietal selection to maximise production and profitability from broadacre cropping and should be read in conjunction with this Farm Gross Margin Guide



Strategies for Maximising Returns from Individual Enterprises

This Gross Margins guide aims to cover all broadacre cropping and grazing areas in South Australia. Circumstances obviously vary significantly across different regions. However, there are some rules of thumb and other resources which can provide guidance on decision making to aid in maximising returns from individual enterprises.

Storage of Out of Season Soil Water

Provides the opportunity to significantly improve Water Use Efficiency and hence crop performance. The key to effective storage of soil moisture over the summer period is to get the soil water deep in the soil profile, below the zone subject to evaporation and then retain soil moisture through to seeding by control of summer weeds.

Lighter Mallee type soils

- Rainfall events above 40mm in December/January should result in some stored moisture with summer weed control
- Less than 40mm rainfall events may still warrant summer weed control for ease of seeding operations and nutrient retention (mainly N).
- Strong case to apply zero tolerance summer weed control policy on light soils with no sub-soil limitations

Heavier soils

- May require larger rainfall events (up to 100mm) in December/January to store soil moisture if soils are already very dry
- Smaller rainfall events from February onwards will warrant control of germinated weeds
- Control of summer weeds earlier than February may also be dependent on other considerations e.g. improved ease of sowing, low cost of control, nutrient retention

Maximising Time of Sowing Benefits

Early seeding generally provides the most reliable yield outcome, particularly in low rainfall situations. However, frost prone areas have special considerations which need to be taken into account.

Sowing Opportunity with Early Break

Frost Risk	Start Sowing
Low	After mid April
Medium	After 25th April
High	After early May

- Sow at the optimum time, even in high frost risk areas. Use appropriate varieties to manage flowering time.
- The yield loss from moisture and temperature stress during spring will usually be far greater than the damage caused by frost.
- The most severe and damaging frosts are those associated with dry conditions in mid to late spring (black frosts), which can be devastating even to crops that have completed flowering.

Ensuring Efficient Fertiliser Practices

For more information on Better Fertiliser Decisions refer to the following GRDC factsheet

www.grdc.com.au/GRDC-FS-BFDCN

Aim to maintain soil nutrient status at appropriate levels to maximise sustainable and profitable production

Phosphorous Replacement Levels

Crop	Removal	Removal plus losses #
Cereal grain	3 kg/t	4 kg/t
Pulses	4 kg/t	5 kg/t
Canola	7 kg/t	8 kg/t
Cereal hay	2 kg/t	2.5 kg/t

[#] higher rates may be required on calcareous / ironstone soils or those with moderate to low available P.

Reduce P application on soils with sub soil constrains when:

- Moderate to low stored soil moisture
- And crop sown more than 3 weeks after the optimum sowing date.

N Fertiliser

Wide range of soil types, rotational histories and climatic conditions means that Nitrogen requirements of crops will vary considerably. Assess opening N supply (e.g. by using deep soil sampling) and then monitor yield and N requirements through models such as **Yield Prophet®** (www.yieldprophet.com.au/)or the CSIRO developed **Yield and N Calculator**. www.clw.csiro.au/products/ncalc/index.html

Micronutrients and trace elements

Micronutrient deficiencies can be tricky to diagnose and treat. By knowing your soil type, considering crop requirements and the season, and supporting this knowledge with diagnostic tools and strategies, effective management is possible.

Refer www.grdc.com.au/GRDC-FS-CropNutrition-Micronutrients

PestFacts

PestFacts is a FREE electronic newsletter service, produced by SARDI, designed to keep growers and advisers informed about invertebrate pest-related issues and solutions as they emerge during the growing season. PestFacts issues warnings (or reminders) for a range of invertebrate pests of all broad-acre crops including pulses, oilseeds, cereals and fodder crops.

www.pir.sa.gov.au/research/services/reports and newsletters/pestfacts newsletter

2017 Gross Margin Estimates

The tables below summarise the anticipated gross margins for all crops and livestock for 2017.

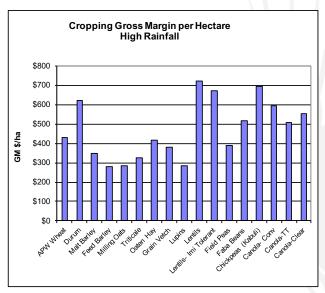
CROPPING								
Commodity \$/ha	Medium	High						
A DVA/ VA/h a a t	450	000	400					
APW Wheat	156	283	430					
Durum	157	359	621					
Malt Barley	123	210	349					
Feed Barley	92	143	278					
Milling Oats	46	165	284					
Triticale	101	198	323					
Oaten Hay	259	358	414					
Grain Vetch	120	259	379					
Lupins	74	181	282					
Lentils	237	535	721					
Lentils- Imi Tolerant	193	432	669					
Field Peas	119	233	390					
Faba Beans	67	209	516					
Chickpeas (Kabuli)	134	477	693					
Canola- Conv	172	338	594					
Canola-TT	119	246	508					
Canola-Clear	151	295	551					
Sown Pasture	114	244	389					
Self Regen Pasture	140	259	390					

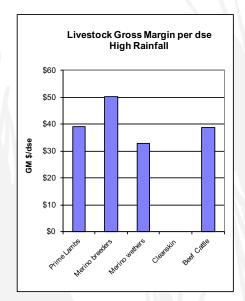
LIVESTOCK								
Pastoral Cereal High R/								
Enterprise \$/dse	Zone	Zone	Zone					
Prime Lambs	26	45	39					
Merino breeders	39	49	50					
Merino wethers	22	32	33					
Cleanskin		36						
Beef Cattle	32	36	39					

Commodity Prices Historical Data

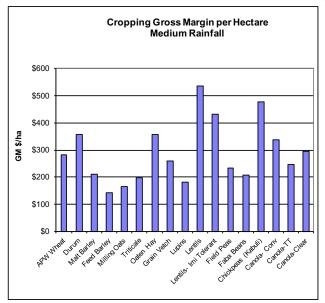
Historical commodity price data and trends can be used as a guide in assessing average returns over time and also the variability of those returns for any given commodity. NOTE: 17/18 Forecast Grain Prices: Forecast grain prices for 17/18 are affected by the value of the Australian Dollar, world consumption, and Australian and other major grain exporting countries production. Future pricing is uncertain and caution is needed with projections.

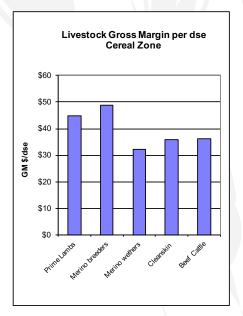
Commodity	Jan 2013	Jan 2014	Jan 2015	Jan 2016	Jan 2017	5 yr	2017
_						Average	Estimate
APW Wheat (\$/t)	280	260	290	250	220	260	225
Durum (\$/t)	305	340	550	370	305	374	300
Malt Barley (\$/t)	260	255	320	290	200	265	220
Feed Barley (\$/t)	240	215	270	205	160	218	180
Milling Oats (\$/t)	215	190	240	290	160	219	180
Feed Oats (\$/t)	205	180	230	275	150	208	170
Triticale (\$/t)	220	200	240	210	180	210	190
Grain Vetch (\$/t)	500	380	650	850	300	536	400
Lupins (\$/t)	260	305	335	380	230	302	280
Lentils (\$/t)	480	630	940	1340	680	814	600
Field Peas (\$/t)	330	320	400	550	350	390	350
Faba Beans (\$/t)	470	420	490	560	270	442	330
Chickpeas 6-8mm Kabuli (\$/t)	575	440	530	1050	1450	809	700
Canola (\$/t)	540	490	480	530	520	512	520
Oaten Hay (\$/t)	160	155	160	170	170	163	170



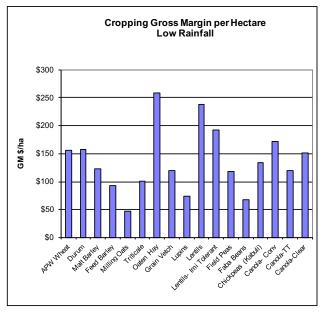


Comparative returns between farm enterprises - High Rainfall





Comparative returns between farm enterprises – Medium Rainfall



Livestock Gross Margin per dse Pastoral Zone

\$45 \$40

 $Comparative\ returns\ between\ farm\ enterprises-\ Low\ Rainfall$

APW Wheat Gross Margin

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			Rate/ha		Rate/ha	-	Rate/ha		
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(1) Smuts and Bunts (2) Aphid Treatment (3) Includes Oil @ 0.5% (4) Includes Surfactant at 0.1%

Nitrogen requirements will vary depending on individual paddocks- seek advice.

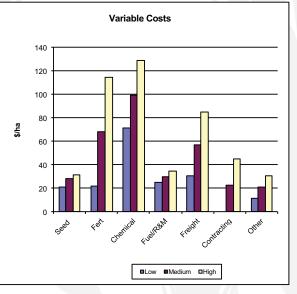
If targeting higher protein, additional N inputs will be required.

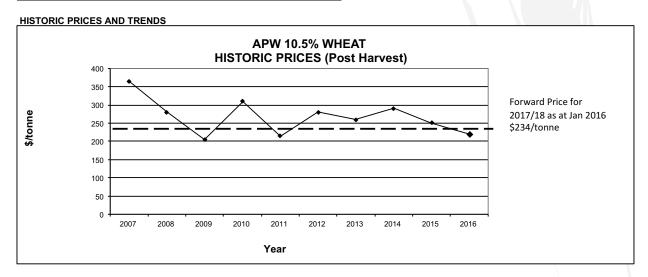
APW Wheat Gross Margin

GROSS MARGIN SENSITIVITY				LOW RAIN	FALL	
		\$175	\$200	\$225	\$250	\$275
	0.5	-\$66	-\$54	-\$41	-\$29	-\$17
Yield	1	\$8	\$33	\$57	\$82	\$106
t/ha	1.5	\$82	\$119	\$156	\$193	\$230
	2.5	\$231	\$292	\$353	\$415	\$476
	3.5	\$379	\$465	\$551	\$637	\$722
				MEDILIM D	AINITALL	

				MEDIUM	RAINFALL	-				
Cash Price \$/t										
		\$175	\$200	\$225	\$250	\$275				
	1	-\$102	-\$77	-\$53	-\$28	-\$4				
Yield	2	\$46	\$95	\$144	\$193	\$243				
t/ha	2.7	\$150	\$216	\$283	\$349	\$415				
	3.5	\$269	\$355	\$440	\$526	\$612				
	4.5	\$417	\$527	\$638	\$748	\$859				

		HIGH RAINFALL									
Cash Price \$/t											
		\$175	\$200	\$225	\$250	\$275					
	2	-\$63	-\$13	\$36	\$85	\$134					
Yield	3	\$86	\$159	\$233	\$307	\$380					
t/ha	4	\$234	\$332	\$430	\$528	\$627					
	5	\$382	\$505	\$628	\$750	\$873					
	6	\$531	\$678	\$825	\$972	\$1,119					





Machinery Costs- Assuming full ownership of machinery

	(i dei dila repails oi							
	Operation	No.	Repairs & Maint	Fuel				
			\$/ha	\$/ha				
ĺ	seed	1	3.89	3.976				
	spray	4	2.20	1.34				
	harvest#	1	8.57	4.7925				
	TOTAL		14.66	10.11				

[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Durum Gross Margin

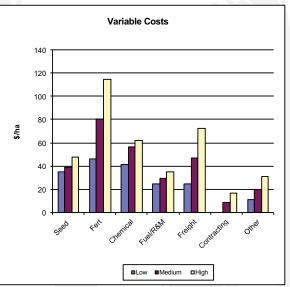
Cost \$0.31 \$0.04 \$0.09 1.0% \$3.50	/kg /kg	Rainfall Zo	Rate/ha Low	\$300 1.2 \$360	Rate/ha Medium	\$300.00 2.2 \$660 \$/ha	Rate/ha	#IGH \$300.00 3.4 \$1,020	YOUR ESTIMATE
Cost \$0.31 \$0.04 \$0.09	/kg /kg /kg	@ @	Rate/ha Low	\$300 1.2		\$300.00 2.2 \$660		\$300.00 3.4	
Cost \$0.31 \$0.04 \$0.09	/kg /kg /kg	@	Low 80	1.2		2.2 \$660		3.4	
Cost \$0.31 \$0.04 \$0.09	/kg /kg /kg	@	Low 80			\$660			
\$0.31 \$0.04 \$0.09	/kg /kg	@	Low 80			\$660			
\$0.31 \$0.04 \$0.09	/kg /kg	@	Low 80	\$300				\$1,020	
\$0.31 \$0.04 \$0.09	/kg /kg	@	Low 80			¢/ba			
\$0.31 \$0.04 \$0.09	/kg /kg	@	Low 80		Medium	¢/h			
\$0.31 \$0.04 \$0.09	/kg /kg	@	80			⊅/⊓a	High	\$/ha	
\$0.04 \$0.09	/kg /kg	@				*****			
\$0.04 \$0.09	/kg /kg	@		\$24.40	90	\$27.45	110	\$33.55	
\$0.09 1.0%	/kg	_		\$3.10	90	\$3.49	110	\$4.27	
1.0%	Ū	<u>@</u>	80	\$7.18	90	\$8.08	110	\$9.87	
	Gross Inc		00	Ψ1.10	30	ψ0.00	110	ψ5.07	
	GIUSS IIIU	ome		\$3.60		\$6.60		\$10.20	
φ3.50	/toppo oo			\$4.20		\$7.70		\$10.20	
	/torine so	u		ֆ4.∠∪		φ1.70		Ф11.90	
C40	/*		40	CO4 40	60	# 20,00	00	¢40.00	
		_		•		•			
\$440	/tonne	@	50	\$22.00	100	\$44.00	150	\$66.00	
						•			
			1.6		0.5				
			4.0	•					
		· ·		·					
				•					
	-		5	•	5				
\$4.50	/kg	@		\$0.00		\$0.00	1.2	\$5.40	
				#40.44		#40.40		Ф444 Г	
				\$14.00		\$17.60		\$20.53	
വ വാ	/tonno	@	1.2	\$24.00	2.2	\$44.00	3.4	\$68.00	
•									
Ψ20.00	/torine	@	0.04	ψ0.00	0.10	ψ5.20	0.20	Ψ+.00	
\$14.00	/ha	@		\$0.00		\$0.00		\$0.00	
\$8.50	/ha	@		\$0.00	1	\$8.50	2	\$17.00	
\$8.50	/\$1000	@		\$3.06		\$5.61		\$8.67	
s			1	\$203		\$301		\$399	
				-		-			
	ble costs	only)		-					
ası ə ye	ar averag	e price						Ψ012	
% is ach 0.1%		asture.		Some Dur	um varieties	s have a nar			
\$ 9	\$7.50 \$10.40 \$15.70 \$6.00 220.00 \$9.35 \$0.07 \$4.50 620.00 6320.00 634.50 \$8.50 \$8.50 64.50 65.50 66.50 66.50 66.50 67.50 68.50	er variable costs er variable costs est 5 year averag degume crop or pa 6 is achieved	Various Allow \$7.50 /litre @ \$10.40 /litre @ \$10.40 /litre @ \$15.70 /litre @ \$6.00 /litre @ \$20.00 /litre @ \$9.35 /litre @ \$9.35 /litre @ \$4.50 /kg @ \$4.50 /kg @ \$320.00 /tonne @ \$320.00 /tonne @ \$34.50 /ha @ \$8.50 /ha @ \$8.50 /\$1000 @ \$320.00 @ \$320.00 /tonne	\$440 /tonne	\$440 /tonne	\$440 /tonne	\$440 /tonne	\$440 /tonne	\$440 /tonne

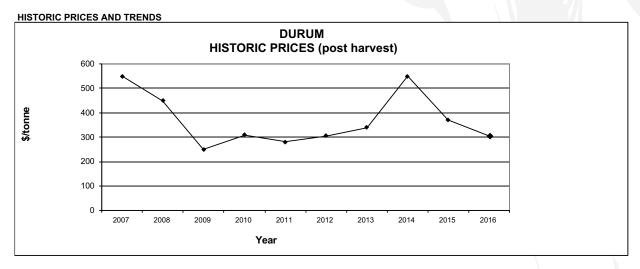
Durum Gross Margin

GROSS MARG	BROSS MARGIN SENSITIVITY				LOW RAINFALL			
		Net Pri	ce \$/t					
		\$220	\$260	\$300	\$340	\$380		
	0.4	-\$91	-\$75	-\$59	-\$44	-\$28		
Yield	1.2	\$63	\$110	\$157	\$204	\$251		
t/ha	2	\$217	\$296	\$374	\$453	\$531		
	2.8	\$371	\$481	\$591	\$701	\$811		
				MEDILIM D	AINEALL			

		MEDIUM RAINFALL						
Net Price \$/t								
		\$220	\$260	\$300	\$340	\$380		
	1.5	\$51	\$110	\$169	\$228	\$287		
Yield	2.2	\$186	\$272	\$359	\$445	\$531		
t/ha	3	\$340	\$458	\$575	\$693	\$811		
	4	\$532	\$689	\$846	\$1,003	\$1,161		

			HIGH RAINFALL							
	Net Price \$/t									
		\$220	\$260	\$300	\$340	\$380				
	1.5	-\$12	\$47	\$106	\$165	\$224				
Yield	2.5	\$181	\$279	\$377	\$475	\$573				
t/ha	3.4	\$354	\$487	\$621	\$754	\$888				
	4.5	\$565	\$742	\$919	\$1,095	\$1,272				





Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel	
		\$/ha	\$/ha	
seed	1	3.89	3.976	
spray	4	2.20	1.34	
harvest#	1	8.57	4.7925	
TOTAL		14.66	10.11	

[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Malting Barley Gross Margin

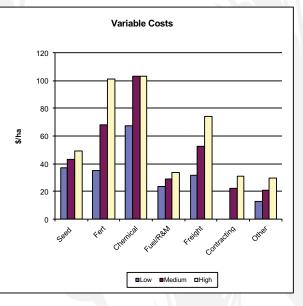
INCOME										2017
INCOME	Rainfall Zone						MEDIUM		HIGH	YOUR ESTIMATE
Price (17/18 Forecast)			Kaiiliali 2	Jile	LOW \$220		\$220		\$220	LOTIMATE
Quality	Malting				ΨΖΖΟ		ΨΖΖΟ		ΨΖΖΟ	
Yield (t/ha)	waiting				1.5		2.5		3.5	
GROSS INCOME					\$330		\$550		\$770	
GROSS INCOME					\$330		\$330		\$110	
VADIADI E COSTS				Rate/ha		Rate/ha		Data/ha		
VARIABLE COSTS	04				¢/5		Ф/Ь -	Rate/ha	¢/5 =	
Cood	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed	#0.00	//		00	640.00	70	¢44.00	00	¢40.00	
Seed	\$0.20	•	@	60	\$12.00	70 70	\$14.00	80	\$16.00	
Seed Treatment(1)	\$0.32	•	@	60	\$19.35	70 75	\$22.58	80	\$25.80	
Seed Treatment(2)	\$0.09	/kg	@	60	\$5.39	75	\$6.73	80	\$7.18	
Levies										
GRDC Levies		Gross In			\$3.30		\$5.50		\$7.70	
EPR & state levies	\$4.30	/tonne so	old		\$6.45		\$10.75		\$15.05	
Fertiliser (Bulk)									-	
18:20:0	•	/tonne	@	40	\$22.00	60	\$33.00	80	\$44.00	
Urea	•	/tonne	@	30	\$13.20	80	\$35.20	130	\$57.20	
Chemicals-Herbicides										
Summer Weed Contr	rol	Various	Allow		\$20.00		\$20.00		\$20.00	
Pre-emergents										
Trifluralin 480g/L	\$7.50	/litre	@	1.5	\$11.25		\$0.00		\$0.00	
Tri-allate 500g/L	\$10.40	/litre	@	1.6	\$16.64					
Glyphosate 540	\$6.00	/litre	@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L	\$220.00	/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Boxer Gold	\$15.70	/litre	@		\$0.00	2.5	\$39.25	2.5	\$39.25	
Post-emergents										
2,4- D Amine	\$4.50		@	1.2	\$5.40		\$0.00		\$0.00	
Metsulfuron methyl(3)	\$0.07	-	@	5	\$0.80		\$0.00		\$0.00	
Clopyralid 600g/L	\$44.00	•	@	0.04	\$1.76	0.04	\$1.76	0.04	\$1.76	
Affinity®	\$125.00		@		\$0.00	0.1	\$12.50	0.1	\$12.50	
MCPA Amine (750g/L)	8.95	/IIIre	@		\$0.00	0.33	\$2.95	0.33	\$2.95	
Fungicides Amistar®	\$38.00	/litro	@		\$0.00	0.4	\$15.20	0.4	\$15.20	
Operations	φ36.00	/IIII e	@		φ0.00	0.4	φ15.20	0.4	\$15.20	
Fuel & Oil					\$9.77		\$11.73		\$13.68	
Repairs & Maintenar	nce				\$14.11		\$16.94		\$19.76	
Freight					•		*		V	
Grain (t)	\$20.00	/tonne	@	1.5	\$30.00	2.5	\$50.00	3.5	\$70.00	
Fertiliser (t)	\$20.00	/tonne	@	0.07	\$1.40	0.14	\$2.80	0.21	\$4.20	
,,										
Contract Work										
Aerial spraying	\$14.00		@	0	\$0.00	1	\$14.00	1	\$14.00	
Urea Spreading	\$8.50		@		\$0.00	1	\$8.50	2	\$17.00	
Insurance	\$8.50	/\$1000	@		\$2.81		\$4.68		\$6.5	
Other										
					000=		00.10		0.40.4	
TOTAL VARIABLE CO	OSTS				\$207		\$340		\$421	
GROSS MARGIN/hec	tare				\$123		\$210		\$349	
Break Even Price (to	cover varia	ble costs	only)		\$138		\$136		\$120	
Break Even Yield (to	cover varia	ble costs	only)		0.94		1.54		1.92	
Gross Margin based	on last 5 ye	ar avera	ge price		\$190		\$323		\$506	
COMMENTS							NOTES			
Assumes barley follow					Ure	a may not b		ollowing a l	egume pastı	ire or grain
Price assumes Malting					legu	ıme crop				
risk. Achieving feed gr Having to windrow ba				-	∭					
(1)Systiva seed dressing		ace GIVI L	, arounu 23	, a	∭					
(2) Aphid control	J				∭					
(3) Includes surfactant	t @ 0.1 %				∭					
<u> </u>										

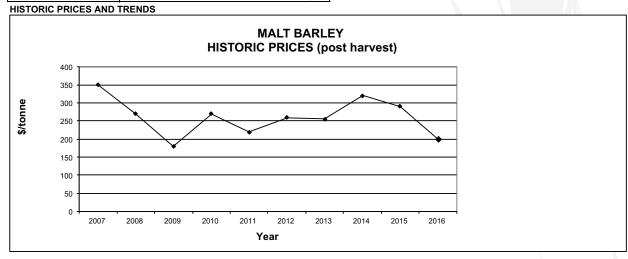
Malting Barley Gross Margin

GROSS MARG	<u>IN SENSIT</u>	IVITY		LOW RAIN	IFALL			
		Net P	rice \$/t					
		\$180	\$200	\$220	\$240	\$260		
	0.5	-\$88	-\$79	-\$69	-\$59	-\$49		
Yield	1	-\$12	\$7	\$27	\$47	\$66		
t/ha	1.5	\$64	\$93	\$123	\$152	\$182		
	2	\$140	\$179	\$219	\$258	\$297		
	3	\$292	\$351	\$410	\$469	\$528		
	MEDIUM DAINEALI							

				MEDIUM	RAINFALL	-
		Net P	rice \$/t			
		\$180	\$200	\$220	\$240	\$260
	0.5	-\$193	-\$183	-\$173	-\$163	-\$153
Yield	1.5	-\$40	-\$11	\$19	\$48	\$78
t/ha	2.5	\$112	\$161	\$210	\$259	\$308
	3.5	\$265	\$333	\$402	\$471	\$539
	4	\$341	\$419	\$498	\$576	\$655

			HIGH RAINFALL						
		Net P	rice \$/t						
		\$180	\$200	\$220	\$240	\$260			
	1.5	-\$94	-\$64	-\$35	-\$5	\$24			
Yield	2.5	\$59	\$108	\$157	\$206	\$255			
t/ha	3.5	\$211	\$280	\$349	\$417	\$486			
	4.5	\$364	\$452	\$540	\$629	\$717			
	6	\$592	\$710	\$828	\$945	\$1,063			





Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.976
spray	3	1.65	1.01
harvest#	1	8.57	4.7925
TOTAL		14.11	9.77

 $[\]ensuremath{\text{\#}}$ Rates are for low rainfall zone. Extra cost in higher yielding situations

Feed Barley Gross Margin

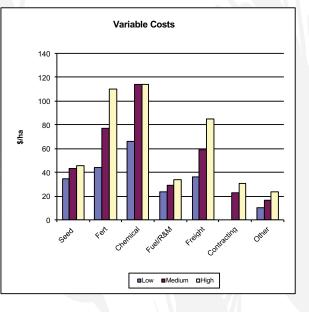
INCOME										2017 YOUR
INCOME			Rainfall Z	one	LOW		MEDIUM		HIGH	ESTIMATE
Price (17/18 Forecast)			Kamian Z	one	\$180		\$180		\$180	LOTIMATE
,	Feed 1				Ψ100		ψ100		Ψ100	
Yield (t/ha)	1 000 1				1.7		2.8		4	
GROSS INCOME					\$306		\$504		\$720	
CROSS INCOME					ΨΟΟΟ		ΨΟΟΨ		Ψ120	
VARIABLE COSTS				Rate/ha		Rate/ha	-	Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed					•					
Seed	\$0.16	/kg	@	60	\$9.60	75	\$12.00	80	\$12.80	
Seed Treatment(1)	\$0.32	/kg	@	60	\$19.35	75	\$24.19	80	\$25.80	
Seed Treatment(2)	\$0.09	/kg	@	60	\$5.39	75	\$6.73	80	\$7.18	
Levies										
GRDC Levies	1.0%	Gross Inc	ome		\$3.06		\$5.04		\$7.20	
EPR & state levies	\$2.50	/tonne sol	d		\$4.25		\$7.00		\$10.00	
Fertiliser (Bulk)										
18:20:0	\$550	/tonne	@	40	\$22.00	60	\$33.00	80	\$44.00	
Urea	\$440	/tonne	@	50	\$22.00	100	\$44.00	150	\$66.00	
Chemicals-Herbicides										
Summer Weed Contr	rol	Various	Allow		\$20.00		\$20.00		\$20.00	
Pre-emergents										
Trifluralin 480g/L	\$7.50	/litre	@	1.5	\$11.25		\$0.00		\$0.00	
Tri-allate 500g/L	\$10.40	/litre	@	1.6	\$16.64					
Glyphosate 540	\$6.00	/litre	@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L	\$220.00	/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Boxer Gold	\$15.70	/litre	@		\$0.00	2.5	\$39.25	2.5	\$39.25	
Post-emergents										
2,4- D Amine	\$4.50		@	1.2	\$5.40		\$0.00		\$0.00	
Metsulfuron methyl(3)	\$0.07	•	@	5	\$0.80		\$0.00		\$0.00	
Affinity®	\$125.00		@		\$0.00	0.1	\$12.50	0.1 0.33	\$12.50 \$2.95	
MCPA Amine (750g/L) Fungicides	\$8.95	/IItre	@		\$0.00	0.33	\$2.95	0.33	\$2.95	
Amistar®	\$70.00	/litre	@		\$0.00	0.4	\$28.00	0.4	\$28.00	
Insecticides	ψ. σ.σσ	,	•		Ψ0.00	0	\$20.00	0	\$20.00	
Operations										
Fuel & Oil					\$9.77		\$11.73		\$13.68	
Repairs & Maintenan	ce				\$14.11		\$16.94		\$19.76	
Freight			_							
Grain (t)	\$20.00		@	1.7	\$34.00	2.8	\$56.00	4.0	\$80.00	
Fertiliser (t)	\$20.00	/tonne	@	0.09	\$1.80	0.16	\$3.20	0.23	\$4.60	
Contract Work										
Aerial spraying	\$14.00	/ha	@	0	\$0.00	1	\$14.00	1	\$14.00	
Urea spreading	\$8.50		@		\$0.00	1	\$8.50	2	\$17.00	
Insurance		/\$1000	@		\$2.60		\$4.28		\$6.1	
Other			_							
TOTAL VARIABLE CO	STS				\$214		\$361		\$442	
GROSS MARGIN/hect	are				\$92		\$143		\$278	
Break Even Price (to cover variable costs only)					\$126		\$129		\$111	
Break Even Yield (to cover variable costs only)					1.19		2.01		2.46	
	Gross Margin based on last 5 year average price						\$249		\$430	
COMMENTS					\$157	GRONOMIC				
Assumes barley follow		0141		- //a-a-			be required	following a	legume pas	sture or grain
Having to windrow bar (1) Systiva seed dress		ice GM by	around \$25	o/na	leg	gume crop				
(2) Aphid control	···y									
(3) Includes surfactant	@ 0.1%									

Feed Barley Gross Margin

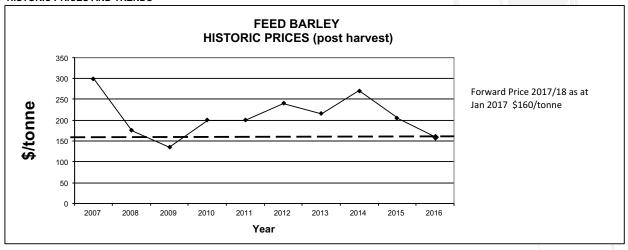
GROSS MARG	GROSS MARGIN SENSITIVITY				LOW RAINFALL			
		Net F	Price \$/t					
		\$140	\$160	\$180	\$200	\$220		
	0.5	-\$112	-\$102	-\$93	-\$83	-\$73		
Yield	1.2	-\$32	-\$8	\$15	\$39	\$62		
t/ha	1.7	\$26	\$59	\$92	\$126	\$159		
	2.5	\$118	\$167	\$216	\$265	\$314		
	3.5	\$232	\$301	\$370	\$439	\$507		
				MEDILIM	DAINEALI			

			MEDIUM RAINFALL					
	N	et Price \$/						
		\$140	\$160	\$180	\$200	\$220		
	1.2	-\$151	-\$127	-\$104	-\$80	-\$56		
Yield	2	-\$59	-\$20	\$20	\$59	\$98		
t/ha	2.8	\$33	\$88	\$143	\$198	\$253		
	3.6	\$125	\$196	\$266	\$337	\$408		
	4.2	\$194	\$276	\$359	\$441	\$524		

		HIGH RAINFALL							
	Net Price \$/t								
		\$140	\$160	\$180	\$200	\$220			
	2	-\$109	-\$70	-\$31	\$8	\$48			
Yield	3	\$6	\$64	\$123	\$182	\$241			
t/ha	4	\$121	\$199	\$278	\$356	\$435			
	5	\$235	\$334	\$432	\$530	\$628			
	6	\$350	\$468	\$586	\$704	\$821			



HISTORIC PRICES AND TRENDS



Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	3	1.65	1.01
harvest#	1	8.57	4.7925
TOTAL		14.11	9.77

[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Milling Oats Gross Margin

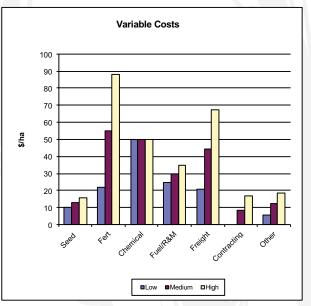
INCOME										2017
		Ra	infall Zo	ne	LOW		MEDIUM		HIGH	YOUR ESTIMATE
Price (17/18 Forecast)					\$180		\$180		\$180	
Quality	Milling									
Yield (t/ha)	Ū				1		2.1		3.2	
GROSS INCOME					\$180		\$378		\$576	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Seed	\$0.16	/kg	@	50	\$8.00	65	\$10.40	80	\$12.80	
Seed Treatment	\$0.04	/kg	@	50	\$1.94	65	\$2.52	80	\$3.10	
Levies										
GRDC Levies	1.0%	Gross Income	Э		\$1.80		\$3.78		\$5.76	
EPR & state levies	\$2.50	/tonne sold			\$2.50		\$5.25		\$8.00	
Fertiliser (Bulk)										
18:20:0	\$550	/tonne	@	40	\$22.00	60	\$33.00	80	\$44.00	
Urea	\$440	/tonne	@		\$0.00	50	\$22.00	100	\$44.00	
Chemicals-Herbicides	;		•							
Summer Weed Cont	rol	Various Allo	ow		\$20.00		\$20.00		\$20.00	
Pre-emergents										
Glyphosate 540	\$6.00	/litre	@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L	\$220.00	/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Dual Gold	\$16.00	/litre	@	0.5	\$8.00	0.5	\$8.00	0.5	\$8.00	
Diuron	\$11.00	/kg	@	0.4	\$4.40	0.4	\$4.40	0.4	\$4.40	
Post-MCPA Amine	\$8.95	/litre	@	0.5	\$4.48	0.5	\$4.48	0.5	\$4.48	
Fungicides										
Tebuconazole	\$12.00	/litre	@	0.145	\$1.74	0.145	\$1.74	0.145	\$1.74	
Operations										
Fuel & Oil					\$10.11		\$12.13		\$14.15	
Repairs & Maintenar	ice				\$14.66		\$17.60		\$20.53	
Freight										
Grain (t)	\$20.00	/tonne	@	1.0	\$20.00	2.1	\$42.00	3.2	\$64.00	
Fertiliser (t)	\$20.00	/tonne	@	0.04	\$0.80	0.11	\$2.20	0.18	\$3.60	
Contract Work										
Aerial spraying			_							
Urea spreading	\$8.50		@		\$0.00	1	\$8.50	2	\$17.00	
Insurance	\$8.50	/\$1000	@		\$1.53		\$3.21		\$4.90	
Other										
TOTAL VARIABLE CO				1	\$134		\$213		\$292	
GROSS MARGIN/hectare				\$46		\$165		\$284		
Break Even Price (to		ible costs onl	ly)		\$134		\$101		\$91	
Break Even Yield (to					0.74		1.18		1.62	
Gross Margin based					\$87		\$251		\$415	
	on last o ye	ar average p	псе			MIC NOTES			Ψ 4 13	
COMMENTS Assumes oats follows	a cereal. If	following a leg	jume les	s N will be	AGRONO	WITC NOTES	,			
required.										

Milling Oats Gross Margin

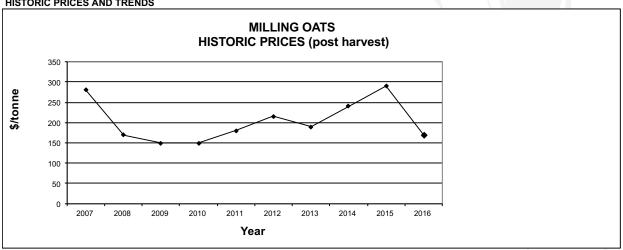
Net Price \$/t \$160 \$180 \$200 \$250 0.5 -\$40 -\$31 -\$21 \$4 Yield 1 \$27 \$46 \$66 \$115	
0.5 -\$40 -\$31 -\$21 \$4	
	\$300
Yield 1 \$27 \$46 \$66 \$115	\$28
	\$164
t/ha 1.5 \$94 \$124 \$153 \$227	\$300
2 \$161 \$201 \$240 \$338	\$436

			MEDIUM RAINFALL							
Net Price \$/t										
\$160 \$180 \$200 \$250 \$300										
	1	-\$24	-\$4	\$15	\$64	\$113				
Yield	2.1	\$124	\$165	\$206	\$309	\$413				
t/ha	3	\$245	\$304	\$363	\$510	\$657				
	4	\$380	\$458	\$537	\$733	\$929				

	HIGH RAINFALL								
Net Price \$/t									
		\$160	\$180	\$200	\$250	\$300			
	1	-\$75	-\$55	-\$36	\$13	\$63			
Yield	2	\$60	\$99	\$138	\$236	\$334			
t/ha	3.2	\$221	\$284	\$347	\$504	\$661			
	4	\$329	\$407	\$486	\$682	\$878			



HISTORIC PRICES AND TRENDS



Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	4	2.20	1.34
harvest#	1	8.57	4.7925
TOTAL		14.66	10.11

[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Triticale Gross Margin

INCOME										2017
INCOME		_		ī	1.014/	1	145501114		IIIOII	YOUR
D:: (47/40 Et)		R	ainfall Z	one	LOW		MEDIUM		HIGH	ESTIMAT
Price (17/18 Forecast)					\$190		\$190		\$190	
Quality					4.0		2.4		0.5	
Yield (t/ha)					1.3		2.4		3.5	
GROSS INCOME					\$247		\$456		\$665	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Seed	\$0.18	/kg	@	60	\$10.80	80	\$14.40	85	\$15.30	
Seed Treatment	\$0.04		@	60	\$2.33	80	\$3.10	85	\$3.30	
Levies		_	_							
GRDC Levies	1.0%	Gross Incom	ne		\$2.47		\$4.56		\$6.65	
EPR & state levies	\$3.00	/tonne sold			\$3.90		\$7.20		\$10.50	
Fertiliser (Bulk)	ψ0.00	, .011110 0010			ψ0.00		ψ1.20		ψ10.00	
18:20:0	\$550	/tonne	@	40	\$22.00	60	\$33.00	80	\$44.00	
Urea		/tonne	@	70	\$0.00	50	\$22.00	100	\$44.00	
Chemicals-Herbicides		, 1011116	w		ψυ.υυ	50	ΨΖΖ.00	100	Ψ++.00	
Summer Weed Cont		Various A	low		\$20.00		\$20.00		\$20.00	
Pre-emergents		. anodo A			Ψ20.00		Ψ20.00		Ψ20.00	
Trifluralin 480g/L	\$7.50	/litre	@	1	\$7.50	1	\$7.50	1	\$7.50	
Glyphosate 540	\$6.00		@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L	\$220.00		@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Post-emergents	ΨΖΖ0.00	/IIII C	w	0.02	ψ4.40	0.02	ψ4.40	0.02	ψ4.40	
MCPA LVE	\$9.35	/litre	@	0		0.5	\$4.68	0.5	\$4.68	
MCPA amine	\$8.95		@	0.5	\$4.48	0.0	\$0.00	0.0	\$0.00	
Metsulfuron methyl(1)	\$0.07		@	5	\$0.80	5	\$0.80	5	\$0.80	
Achieve® (2)	\$52.00	•	@		\$0.00	0.4	\$24.81	0.4	\$24.81	
Insecticides	Ψ02.00	/Ng	٣		ψ0.00	0.1	Ψ21.01	0.1	Ψ2 1.0 1	
Fungicides										
Operations										
Fuel & Oil					\$10.11		\$12.13		\$14.15	
Repairs & Maintenar	nce				\$14.66		\$17.60		\$20.53	
rtepairs & Maintenai	ice				ψ14.00		ψ17.00		Ψ20.55	
Freight										
Grain (t)	\$25.00	/tonne	@	1.3	\$32.50	2.4	\$60.00	3.5	\$87.50	
Fertiliser (t)	\$20.00	/tonne	@	0.04	\$0.80	0.11	\$2.20	0.18	\$3.60	
Contract Work										
Aerial spraying										
Urea spreading	\$8.50	/ha	@		\$0.00	1	\$8.50	2	\$17.00	
Insurance		/\$1000	@		\$2.10	,	\$3.88	=	\$5.65	
Other			_		,		, , , , ,			
TOTAL VARIABLE COSTS				\$146		\$258		\$342		
GROSS MARGIN/hectare				\$101		\$198		\$323		
Break Even Price (to		ble costs or	ılv)		\$112		\$107		\$98	
Break Even Yield (to cover variable costs only)				0.77		1.36		1.80		
Gross Margin based					\$132		\$256		\$407	
Gross Margin based COMMENTS	on last 5 ye	ar average	once			MIC NOTE			Ψ 1 07	<u> </u>
This rate of fertiliser as	ssumes tritic	cale follows a	cereal		ACKONO	NO IE	•			
1) Surfactant at 0.1%										

Triticale Gross Margin

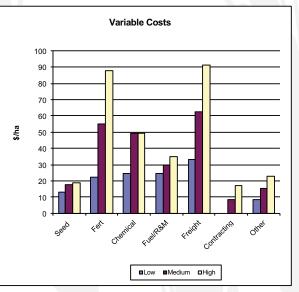
GROSS MARGIN SENSITIVITY

LOW RAINFALL

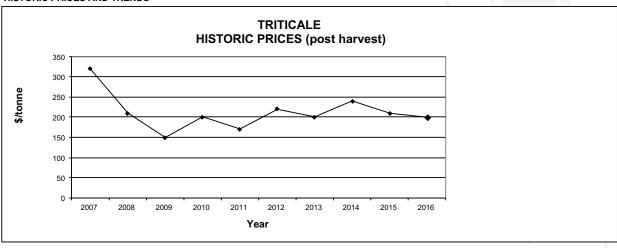
Net Price \$/t										
		\$150	\$175	\$190	\$225	\$250				
	0.5	-\$45	-\$33	-\$26	-\$9	\$4				
Yield	1	\$14	\$39	\$53	\$88	\$112				
t/ha	1.3	\$50	\$82	\$101	\$146	\$178				
	2	\$133	\$182	\$212	\$281	\$330				
	3	\$253	\$326	\$370	\$473	\$547				

Net Price \$/t											
		\$150	\$175	\$190	\$225	\$250					
	1	-\$63	-\$39	-\$24	\$11	\$35					
Yield	1.6	\$8	\$48	\$71	\$126	\$165					
t/ha	2.4	\$104	\$163	\$198	\$280	\$339					
	3.2	\$199	\$278	\$325	\$435	\$513					
	4	\$295	\$393	\$452	\$589	\$687					

		HIGH KAINI ALL							
Net Price \$/t									
\$150 \$175 \$190 \$225 \$250									
	1.5 -\$52 -\$16 \$6 \$58 \$								
Yield	2.5	\$67	\$128	\$165	\$251	\$312			
t/ha	3.5	\$186	\$272	\$323	\$444	\$530			
	4.5	\$305	\$416	\$482	\$636	\$747			
	5.5	\$424	\$559	\$640	\$829	\$964			



HISTORIC PRICES AND TRENDS



Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	4	2.20	1.34
harvest#	1	8.57	4.7925
TOTAL		14.66	10.11

[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Export Oaten Hay Gross Margin

INCOME				ſ						2017 YOUR
			Rainfall Z	one	LOW		MEDIUM		HIGH	ESTIMA
Price (17/18 Forecast	•				\$190		\$170		\$150	
Quality	Mixed grad	les								
Yield (t/ha)					3.50		5.50		8	
GROSS INCOME					\$665		\$935		\$1,200	
VARIABLE COSTS				Rate/ha		Rate/ha	-	Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Levies										
Seed	\$160.00	/tonne	@	90	\$14.40	110	\$17.60	130	\$20.80	
	•		_	30	Ψ14.40				·	
Seed Treatment	\$0.00	/tonne	@			0	\$0.00	0	\$0.00	
Fertiliser (Bulk)										
18:20:0	\$550	/tonne	@	60	\$33.00	80	\$44.00	110	\$60.50	
Urea	\$440	/tonne	@	30	\$ 13.20	75	\$33.00	150	\$66.00	
Chemicals-Herbicide	s									
Summer Weed Con	itrol	Various	Allow		\$20.00		\$20.00		\$20.00	
Pre-emergents										
Glyphosate 540	\$6.00	/litre	@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L	\$220.00	/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Dual Gold	\$16.00	/litre	@			0.5	\$8.00	0.5	\$8.00	
Diuron	\$11.00	/Kg	@	0.4	\$4.40	0.4	\$4.40	0.4	\$4.40	
Post-MCPA Amine	\$8.95	/litre	@	0.5	\$4.48	0.5	\$4.48	0.5	\$4.48	
Pre cutting-Glypho (1) Insecticides	\$6.00	/litre	@	1.4	\$8.40	2	\$12.00	2	\$12.00	
Fungicides										
Operations										
Fuel & Oil					\$6.66		\$7.33		\$7.99	
Repairs & Maintena	ince				\$7.29		\$8.02		\$8.75	
Freight										
Hay	\$28.00	/tonne	@	3.5	\$98.00	5.5	\$154.00	8.0	\$224.00	
Fertiliser (t)	\$20.00	/tonne	@	0.09	\$1.80	0.16	\$3.10	0.26	\$5.20	
Contract Work										
Hay mowing	\$48.00	/ha	@	1.0	\$48.00	1.0	\$48.00	1.0	\$48.00	
Super Conditioner	\$25-40.00	/ha	@	1.0	\$25.00	1.0	\$30.00	1.0	\$35.00	
Hay baling	\$20.00		@	3.5	\$107.69	5.5	\$169.23	8.0	\$246.15	
Insurance	\$2.50	/\$1000	@		\$1.66		\$2.34		\$3.00	
TOTAL VARIABLE C	POSTS			1	\$406		\$577		\$786	
TOTAL VARIABLE C GROSS MARGIN/hed					\$406 \$259		\$358		\$786 \$414	
Break Even Price (to		hle cost	s only)		\$116		\$105		\$98	
					2.13		3.39		5.24	
Break Even Yield (to										
Gross Margin based	on last 5 ye	ear avera	ge price		\$172		\$330		\$534	
COMMENTS Price received is stror hay follows a cereal. I					The use of	MIC NOTE f a 'super c	S onditioner' ca with less ch	an significa	ntly reduce o	drying tim

hay follows a cereal. Bonuses for shedding and late delivery may apply. Additional capital costs including shedding and extra machinery may be needed.

and subsequently risk with less chance of a quality downgrade. No allowance has been made for cost of raking.

(1) Glyphosate Weedmaster DST registered for this use

Export Oaten Hay Gross Margin

GROSS MARGIN SENSITIVITY	LOW RAINFALI
CITOGO III II CONTO CENTO I I I I	

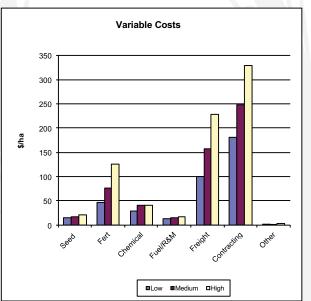
Net Price \$/t									
\$150 \$175 \$190 \$225 \$250									
	1.5 -\$62 -\$25 -\$2 \$50								
Yield	2.5	\$29	\$91	\$129	\$216	\$278			
t/ha	3.5	\$120	\$207	\$259	\$382	\$469			
	4.5	\$211	\$323	\$390	\$547	\$659			

MEDIUM RAINFALL

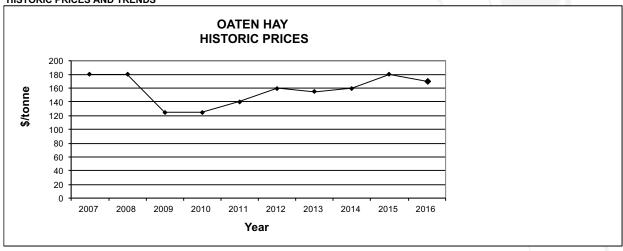
Net Price \$/t									
\$120 \$145 \$170 \$195 \$220									
2 -\$130 -\$80 -\$30 \$20									
Yield	3.5	-\$38	\$49	\$136	\$224	\$311			
t/ha	5.5	\$84	\$221	\$358	\$495	\$632			
	7.5	\$205	\$392	\$580	\$767	\$954			

HIGH RAINFALL

Net Price \$/t										
\$100 \$125 \$150 \$175 \$200										
	8	\$15	\$215	\$414	\$614	\$813				
Yield	6	-\$67	\$83_	\$232	\$382	\$532				
t/ha	8	\$15	\$215	\$414	\$614	\$813				
	10	\$97	\$346	\$596	\$845	\$1,095				



HISTORIC PRICES AND TRENDS



Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	4	2.20	1.34
roll	1	1.20	1.34
TOTAL		7.29	6.66

[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Vetch Gross Margin

INCOME										2017 YOUR
			Rainfall Z	one	LOW		MEDIUM		HIGH	ESTIMA"
Price (17/18 Forecast	:)				\$400		\$400		\$400	
Quality	Morava vet	tch								
Yield (t/ha)					0.7		1.2		1.6	
GROSS INCOME					\$280		\$480		\$640	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High		
Seed										
Seed	\$0.30	/kg	@	25	\$7.50	30	\$9.00	35	\$10.50	
Seed Inoculant	\$0.05	/kg	@	25	\$1.30	30	\$1.56	35	\$1.82	
Levies										
GRDC Levies	1.0%	Gross In	come		\$2.80		\$4.80		\$6.40	
Fertiliser (Bulk)										
MAP	\$550	/tonne	@	40	\$22.00	60	\$33.00	80	\$44.00	
Chemicals-Herbicide	s									
Summer Weed Cor	itrol	Various	Allow		\$20.00		\$20.00		\$20.00	
Pre-emergents										
Metribuzin 750 gm/kg	\$25.60	/kg	@	0.2	\$5.12	0.25	\$6.40	0.3	\$7.68	
Trifluralin 480g/L	\$7.50		@	1.2	\$9.00	1.5	\$11.25	1.7	\$12.75	
Tri-allate 500g/L	\$10.40	/litre	@		\$0.00	1.6	\$16.64	1.6	\$16.64	
Glyphosate 540	\$6.00	/litre	@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L	\$220.00	/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Post-emergents			-							
Clethodim(incl Oil)	\$12.00	/litre	@	0.3	\$5.93	0.5	\$8.33	0.7	\$10.73	
Haloxyfop 520g/L	\$44.00	/litre	@	0.04	\$1.76	0.04	\$1.76	0.04	\$1.76	
Paraquat(Topping)	\$4.00	/litre	@	0.8	\$3.20	8.0	\$3.20	0.8	\$3.20	
Insecticides										
Dimethoate (1)	\$8.45	/litre	@	0.4	\$3.38	0.4	\$3.38	0.4	\$3.38	
Karate Zeon® (2)	\$116.00	/litre	@	0.024	\$2.78	0.024	\$2.78	0.024	\$2.78	
Operations										
Fuel & Oil					\$14.04		\$16.85		\$19.66	
Repairs & Maintena	ince				\$27.59		\$33.11		\$38.63	
Freight										
Grain (t)	\$25.00	/tonne	@	0.7	\$17.50	1.2	\$30.00	1.6	\$40.00	
Fertiliser (t)	\$20.00	/tonne	@	0.04	\$0.80	0.06	\$1.20	0.08	\$1.60	
Contract Work										
Aerial spraying										
Insurance	\$12.00	/\$1000	@		\$3.36		\$5.76		\$7.68	
Other										
TOTAL VARIABLE C				•	\$160		\$221		\$261	
GROSS MARGIN/he					\$120		\$259		\$379	
Break Even Price (to					\$228		\$184		\$163	
Break Even Yield (to	cover varia	ble costs	only)		0.40		0.55		0.65	
Gross Margin based	on last 5 ye	ar avera	ge price		\$216		\$423		\$597	
COMMENTS					AGRONOI	VIC NOTES	3			

(1) Cow pea aphid
(2) Native budworm
Do not exceed 800 ml/Ha Paraquat 250 when crop topping to avoid possible residue issues.

Lexone (Metribuzin) not recommended on some varieties.

Seek advice (also applies to using Diuron on vetch).

Harvest and marketing difficulties are common with this crop.

Vetch is a dual purpose crop and grain production following grazing is possible. This can markedly influence Gross Margin performance.

Vetch Gross Margin

GROSS MARGIN SENSITIVITY	LOW RAINFALL

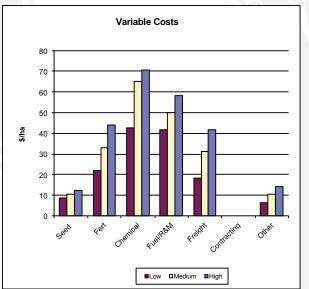
Net Price \$/t									
\$250 \$325 \$400 \$500 \$600									
	0.3 -\$70 -\$48 -\$26 \$3								
Yield	0.7	\$18	\$69	\$120	\$189	\$257			
t/ha	1.1	\$105	\$186	\$267	\$374	\$482			
	1.5	\$193	\$303	\$413	\$560	\$707			

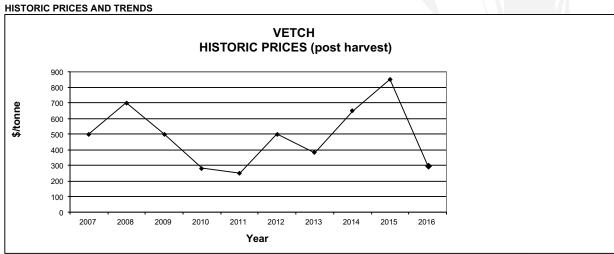
MEDIUM RAINFALL

Net Price \$/t									
\$250 \$325 \$400 \$500 \$600									
0.4 -\$92 -\$63 -\$34 \$6 \$45									
Yield	0.8	-\$4	\$54	\$113	\$191	\$269			
t/ha	1.2	\$83	\$171	\$259	\$377	\$494			
	1.8	\$215	\$347	\$479	\$655	\$831			

HIGH RAINFALL

\$250 \$325 \$400 \$500 \$											
	8.0	-\$31	\$28	\$86	\$164	\$243					
Yield	1.2	\$57	\$145	\$233	\$350	\$467					
t/ha	1.6	\$144	\$262	\$379	\$536	\$692					
	2.5	\$342	\$525	\$709	\$953	\$1,198					





Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	6	3.30	2.01
roll	1	1.20	1.34
harvest#	1	19.20	6.71
TOTAL		27.59	14.04

[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Lupins Gross Margin

INCOME										2017 YOUR
INCOME	Rainfall Z	one	LOW	l	MEDIUM		HIGH	ESTIMATE		
Price (17/18 Forecast)			rainian 2		\$280		\$280		\$280	LOTIMATE
Quality					7		,_,,		, , ,	
Yield (t/ha)					0.9		1.5		2	
GROSS INCOME					\$252		\$420		\$560	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low		Medium	\$/ha	High	\$/ha	
Seed	40.00	,			400 70		200 To		400 70	
Seed	\$0.23	•	@	90	\$20.70		\$20.70	90	\$20.70	
Seed Inoculant	\$0.05	•	@	90	\$4.68	90	\$4.68	90	\$4.68	
Seed Treatment(1)	\$0.11	/kg	@	60	\$6.73	75	\$8.42	80	\$8.98	
Levies	4.00/				00.50		04.00		# F 00	
GRDC Levies		Gross Ind			\$2.52		\$4.20		\$5.60	
EPR &state levies	\$2.80	/tonne so	old		\$2.52		\$4.20		\$5.60	
Fertiliser (Bulk)	¢ EE0	/*****		40	22	00	¢22.00	00	¢44.00	
MAP Foliar Trace Elem	φοου	/tonne	@	40	22	60	\$33.00	80	\$44.00	
Chemicals-Herbicides										
Summer Weed Cont		Various	Allow		\$20.00		\$20.00		\$20.00	
Pre-emergents	101	various	Allow		Ψ20.00		Ψ20.00		Ψ20.00	
Trifluralin 480g/L	\$7.50	/litre	@	1.2	\$9.00	1.5	\$11.25	1.7	\$12.75	
Tri-allate 500g/L	\$10.40		@		\$0.00	1.6	\$16.64	1.6	\$16.64	
Glyphosate 540	\$6.00		@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Simazine Granules	\$7.60	/kg	@	0.83	\$6.31	0.83	\$6.31	0.83	\$6.31	
Carfentrazone 400g/L	\$220.00	/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Post-emergents										
Clethodim(incl Oil)	\$12.00		@	0.3	\$5.93	0.5	\$8.33	0.7	\$10.73	
Haloxyfop 520g/L	\$44.00		@	0.04	\$1.76	0.04	\$1.76	0.04	\$1.76	
Paraquat(Topping)	\$4.00	/litre	@	0.8	\$3.20	8.0	\$3.20	8.0	\$3.20	
Insecticides	#40.00	/I:4		0.04	¢4.00	0.04	#4.00	0.04	¢4.00	
Talstar (2) Karate Zeon® (3)	\$48.00 \$116.00		@ @	0.04 0.024	\$1.92 \$2.78	0.04 0.024	\$1.92 \$2.78	0.04 0.024	\$1.92 \$2.78	
Karate Zeon® (3)	ψ110.00	/IIII C	w	0.024	Ψ2.70	0.024	Ψ2.70	0.024	Ψ2.70	
Operations										
Fuel & Oil					\$11.58		\$13.90		\$16.21	
Repairs & Maintenar	nce				\$19.19		\$23.03		\$26.87	
Freight										
Grain (t)	\$25.00		@	0.9	\$22.50		\$37.50	2.0	\$50.00	
Fertiliser (t)	\$20.00	/tonne	@	0.04	\$0.80	0.06	\$1.20	0.08	\$1.60	
Contract Work										
Aerial spraying	\$14.00	/ha	@		\$0		\$0.00		\$0.00	
Actial oping	Ψ14.00	/IIu	@		ΨΟ		ψ0.00		ψ0.00	
Insurance	\$10.00	/\$1000	@		\$2.52		\$4.20		\$5.60	
Other	,	•	O		•		,			
TOTAL VARIABLE CO	OSTS				\$178		\$239		\$278	
GROSS MARGIN/hec	tare				\$74		\$181		\$282	
Break Even Price (to	cover varia	ble costs	only)		\$198		\$159		\$139	
Break Even Yield (to	cover varia	ble costs	only)		0.64		0.85		0.99	
Gross Margin based					\$94		\$214		\$326	
AGRONOMIC NOTES	S					OMIC NOT				
(1) Seed treatment for	aphid cont	rol for con	trolling virus	ses						
(2) RLEM (3) Native budworm										
Do not exceed 800ml/			g with Parac	quat 250 to						
avoid any possible res	sidue issues	S								

Lupins Gross Margin

GROSS MAI	RGIN SEN	SITIVITY	L	OW RAIN	FALL		
		Net	Price \$/t				V . I . O . I
		\$200	\$240	\$280	\$320	\$360	Variable Costs
_	0.5	-\$64	-\$44	-\$25	-\$5	\$14	
Yield	0.9	\$3	\$38	\$74	\$109	\$144	100
t/ha	1.5	\$104	\$163	\$222	\$281	\$339	90 +
	2	\$188	\$267	\$345	\$423	\$502	80
	•		N	MEDIUM RA	AINFALL		70
		Net	Price \$/t				60
		\$200	\$240	\$280	\$320	\$360	<u>₹</u> 50
	0.5	-\$105	-\$85	-\$65	-\$46	-\$26	
Yield	1	-\$21	\$19	\$58	\$97	\$136	
t/ha	1.5	\$64	\$122	\$181	\$240	\$299	30 + 10 + 10 + 10 + 10 + 10 + 10 + 10 +
	2	\$148	\$226	\$304	\$383	\$461	
	-		F	IIGH RAIN	FALL	·	
		Net	Price \$/t				
		\$2,200	\$240	\$280	\$320	\$360	Seed feet Cherical Freihram Freihr Countring Ones
	1	\$1,917	-\$3	\$36	\$75	\$114	Ches. Fray, Elynan
Yield	1.5	\$2,982	\$100	\$159	\$218	\$277	•
t/ha	2	\$4,046	\$204	\$282	\$361	\$439	II □Low ■Medium □High I
	2.5	\$5,110	\$308	\$406	\$504	\$602	

HISTORIC PRICES AND TRENDS **LUPINS HISTORIC PRICES (post harvest)** 500 400 \$/tonne 300 200 100 0 2008 2009 2010 2011 2013 2014 2015 -100 Year

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	6	3.30	2.01
harvest#	1	12.00	5.59
TOTAL		19.19	11.58

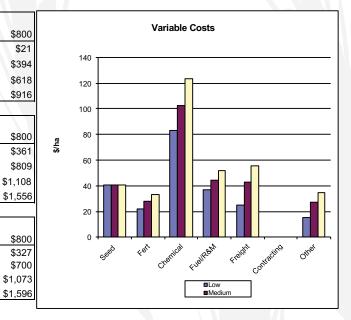
[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Red Lentils Gross Margin

INCOME										2017
INCOME Rainfall Zone							MEDILIM	Г	шсп	YOUR ESTIMAT
Drice (17/10 Ferencet)		ļ	Raintaii Z	one	LOW 600		MEDIUM		HIGH \$600	ESTIMAT
Price (17/18 Forecast)	lumbo 2				600		\$600		φουυ	
•	Jumbo 2				0.0		4.4		4.0	
Yield (t/ha)					0.8		1.4		1.8	
GROSS INCOME					\$480		\$840		\$1,080	
VADIADI E COSTS				Data/ha		Data/ba		Rate/ha		
VARIABLE COSTS	Cont			Rate/ha	¢/ho	Rate/ha	¢/ba		¢/ha	
Seed	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed Seed	¢0 69	/ka	@	50	\$34.00	50	\$34.00	50	\$34.00	
	\$0.68	-	@		*		·			
Seed Inoculant	\$0.05	•	@	50	\$2.60	50	\$2.60	50	\$2.60	
P-Pickel	\$75.20	/tonne		50	\$3.76	50	\$3.76	50	\$3.76	
Levies	4.00/	O I			#4.00		ФО 4O		#40.00	
GRDC Levies		Gross Inco			\$4.80		\$8.40		\$10.80	
EPR &state levies	\$6.00	/tonne sold	ı		\$4.80		\$8.40		\$10.80	
Fertiliser (Bulk)	¢==0	/tonne	@	40	\$22.00	E 0	¢27.50	60	#22.00	
MAP	φοου	/tonne	@	40	φ 22.00	50	\$27.50	60	\$33.00	
Chemicals-Herbicides										
Summer Weed Contro	nl.	Various /	Allow		\$20.00		\$20.00		\$20.00	
Pre-emergents		7411043 /	**		Ψ20.00		Ψ20.00		Ψ20.00	
Glyphosate 540	\$6.00	/litre	@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L	\$220.00		@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
trifluralin 480g/L	\$7.50	/litre	@	0.8	\$6.00	0.8	\$6.00	8.0	\$6.00	
Tri-allate 500g/L	\$10.40	/litre	@	1.6	\$16.64	1.6	\$16.64	1.6	\$16.64	
Metribuzin 750 gm/kg	\$25.60	/kg	@	0.18	\$4.61	0.24	\$6.14	0.3	\$7.68	
Diflufenican	\$38.00	/litre	@	0.15	\$5.70	0.15	\$5.70	0.15	\$5.70	
Clethodim(incl Oil)	\$12.00	/litre	@	0.3	\$5.93	0.5	\$8.33	0.7	\$10.73	
Haloxyfop 520g/L	\$44.00		@	0.04	\$1.76	0.04	\$1.76	0.04	\$1.76	
Paraquat(Topping)	\$4.00	/litre	@	8.0	\$3.20	8.0	\$3.20	8.0	\$3.20	
Insecticides			_							
Dimethoate (1)	\$8.45		@	0.4	\$3.38	0.4	\$3.38	0.4	\$3.38	
Karate Zeon® (2)	\$116.00		@	0.024	\$2.78 \$2.78	0.024	\$2.78	0.024	\$2.78	
Karate Zeon® (3)	\$116.00 \$132.00		@	0.024 0.025	\$3.30	0.024 0.025	\$2.78 \$3.30	0.024 0.025	\$2.78 \$3.30	
Trojan (4) Fungicides	φ132.00	/IIII E	@	0.025	ψ5.50	0.025	φ3.30	0.023	φ3.30	
Chlorothalonil (5)	\$8.90	/litre	@	0.8	\$7.12	1.6	\$14.24	2.4	\$21.36	
Carbendazim (6)	\$16.40		@	0.5	\$8.20	1	\$16.40	1	\$16.40	
Procymidone (7)	\$20.80		@		\$0.00	•	\$0.00	0.5	\$10.40	
Operations	•									
Fuel & Oil					\$15.05		\$18.06		\$21.07	
Repairs & Maintenand	e				\$22.04		\$26.45		\$30.86	
Freight										
Grain (t)	\$30.00		@	0.8	\$24.00	1.4	\$42.00	1.8	\$54.00	
Fertiliser (t)	\$20.00	/tonne	@	0.04	\$0.80	0.05	\$1.00	0.06	\$1.20	
Company Maria										
Contract Work										
Aerial spraying										
Windrowing Insurance	\$12.00	/\$1000	@		\$5.76		\$10.08		\$12.96	
Other	ψ12.00	, ψ 1 0 0 0	\underline{w}		ψ3.70		ψ10.06		ψ12.90	
J										
TOTAL VARIABLE CO	STS			<u>'</u>	\$243		\$305		\$359	
GROSS MARGIN/hecta					\$237		\$535		\$721	
Break Even Price (to cover variable costs only)							\$218		\$199	
Break Even Yield (to cover variable costs only)							0.51		0.60	
Gross Margin based o	n last 5 ye	ear average	price		\$409		\$835		\$1,106	
COMMENTS					IIII	NOMIC NO				
(1) Cow Pea and/or Blue	e Green Ap	phid			IIII		ore sensitive			
(2) Native budworm (3) Etiella					Check	newly relea	ased varietie	s for suitab	ility to your a	rea
(5)Ascochyta										
(6/7) Grey mould	_									
Do not exceed 800ml/H	a Paraqua	t 250 when	crop topp	ing to avoid						

Red Lentils Gross Margin

GROSS MA	ARGIN SEN	ISITIVITY		LOW RAII	NFALL	
		Net	t Price \$/t	t		
		\$400	\$500	\$600	\$700	\$800
	0.3	-\$97	-\$67	-\$38	-\$9	\$21
Yield	0.8	\$81	\$159	\$237	\$316	\$394
t/ha	1.1	\$187	\$295	\$403	\$510	\$618
	1.5	\$330	\$476	\$623	\$770	\$916
				MEDIUM	RAINFALL	
		Nef	t Price \$/t	t		
		\$400	\$500	\$600	\$700	\$800
	0.8	\$49	\$127	\$205	\$283	\$361
Yield	1.4	\$262	\$399	\$535	\$672	\$809
t/ha	1.8	\$404	\$580	\$756	\$932	\$1,108
	2.4	\$617	\$852	\$1,086	\$1,321	\$1,556
<u> </u>				HIGH RAI	NFALL	
		Nef	t Price \$/t	t		
		\$400	\$500	\$600	\$700	\$800
	0.8	\$14	\$92	\$170	\$249	\$327



HISTORIC PRICES AND TRENDS

1.3

1.8

2.5

\$192

\$369

\$618

\$319

\$862

\$721

\$1,107

\$573

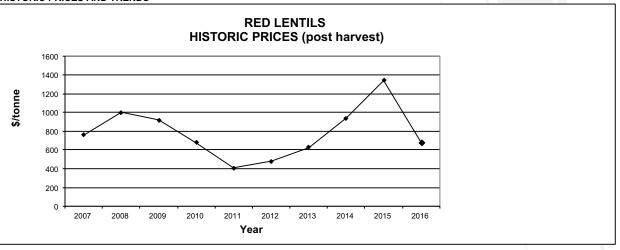
\$897

\$1,596

\$1,351

Yield

t/ha



Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	9	4.95	3.02
roll	1	1.20	1.34
harvest#	1	12.00	6.71
TOTAL		22.04	15.05

[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Lentils Imi Tolerant

									YOUR
Rainfall Zone				LOW		MEDIUM		HIGH	ESTIMA
				600		\$600		\$600	
Jumbo 2									
				0.7		1.2		1.7	
				\$420		\$720		\$1,020	
			Rate/ha		Rate/ha		Rate/ha		
Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
\$0.68	/kg	@	35	\$23.80	40	\$27.20	45	\$30.60	
\$0.05	/kg	@	35	\$1.82	40	\$2.08	45	\$2.34	
\$75.20	/tonne		35	\$2.63	40	\$3.01	45	\$3.38	
1.0%	Gross Inco	me		\$4.20		\$7.20		\$10.20	
\$6.00	/tonne sold			\$4.20		\$7.20		\$10.20	
\$550	/tonne	@	40	\$22.00	50	\$27.50	60	\$33.00	
ol	Various A	Allow		\$20.00		\$20.00		\$20.00	
\$6.00	/litre	@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
-		@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
		@	0.8	•	8.0	\$6.00	8.0	\$6.00	
1.5		@		-					
	•								
	•								
				•				•	
Φ4.00	/IIII e	w	0.0		0.0	φ3.20	0.0	φ3.20	
\$8.45	/litro	@	0.4	\$3.38	0.4	\$3.38	0.4	\$3 3 8	
-		_	_						
				\$3.30					
		O				,		• • • • • • • • • • • • • • • • • • • •	
\$8.90	/litre	@	0.8	\$7.12	1.6	\$14.24	2.4	\$21.36	
\$16.40	/litre	@	0.5	\$8.20	1	\$16.40	1	\$16.40	
\$20.80	/litre	@		\$0.00		\$0.00	0.5	\$10.40	
				\$15.05		\$18.06		\$21.07	
ce				\$22.04		\$26.45		\$30.86	
•		@							
\$20.00	/tonne	@	0.04	\$0.80	0.05	\$1.00	0.06	\$1.20	
\$12 AA	/\$1000	<i>@</i>		\$5.04		\$9.64		\$12.24	
φ1∠.UU	/φ 1000	w		φ5.04		Ф0.04		φ12.24	
STS				\$227		\$288		\$351	
TOTAL VARIABLE COSTS GROSS MARGIN/hectare								·	
	bla			-					
on last 5 ye	ar average	price						\$1,033	
				II					
			orm control	Imazethap	yr is a pern	nit use			
, woodingta	(a, i) Oley I	noulu		II .					
	\$0.68 \$0.05 \$75.20 1.0% \$6.00 \$550 1.0% \$6.00 \$550 1.0% \$6.00 \$220.00 \$7.50 \$10.40 \$25.60 \$99.50 \$12.00 \$44.00 \$4.00 \$8.45 \$116.00 \$132.00 \$8.90 \$16.40 \$20.80 1.00 \$20.00 1.00 \$20.00 1.00 \$20.00 \$20.00 1.00 \$20.00	Cost \$0.68 /kg \$0.05 /kg \$75.20 /tonne 1.0% Gross Incor \$6.00 /tonne sold \$550 /tonne Ol Various A \$6.00 /litre \$220.00 /litre \$7.50 /litre \$10.40 /litre \$25.60 /kg \$99.50 kg \$12.00 /litre \$44.00 /litre \$44.00 /litre \$116.00 /litre \$116.00 /litre \$116.00 /litre \$116.00 /litre \$116.00 /litre \$120.00 /litre \$120.00 /litre \$120.00 /litre \$1520.00 /litre \$16.40 /litre \$20.80 /litre \$20.80 /litre \$20.80 /litre	Cost \$0.68 /kg @ \$0.05 /kg @ \$75.20 /tonne 1.0% Gross Income \$6.00 /tonne sold \$550 /tonne @ OI Various Allow \$6.00 /litre @ \$220.00 /litre @ \$10.40 /litre @ \$10.40 /litre @ \$10.40 /litre @ \$44.00 /litre @ \$44.00 /litre @ \$116.00 /litre @ \$120.00 /litre @	Cost Rate/ha Low \$0.68 /kg @ 35 \$0.05 /kg @ 35 \$75.20 /tonne 35 1.0% Gross Income \$6.00 /tonne sold \$550 /tonne @ 40 ***Ol Various Allow ***Section of the content of	Sumbo 2 State St	Sumbo 2 State St	Second S	Second S	Second S

Lentils Imi Tolerant

GROSS MARGIN SENSITIVITY

	L	_O	w	RA	IN	FΑ	LL
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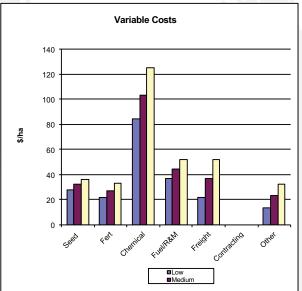
	Net Price \$/t												
		\$400	\$500	\$600	\$700	\$800							
	0.3	-\$86	-\$57	-\$27	\$2	\$32							
Yield	0.7	\$56	\$125	\$193	\$262	\$330							
t/ha	1.1	\$198	\$306	\$413	\$521	\$629							
	1.5	\$340	\$487	\$634	\$780	\$927							

MEDIUM RAINFALL

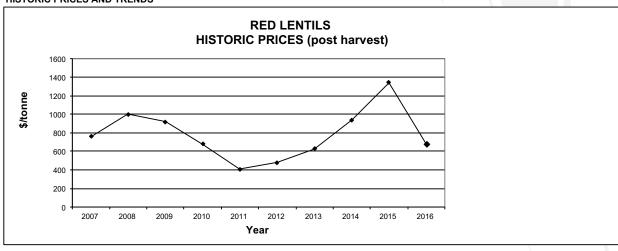
Net Price \$/t											
		\$400	\$500	\$600	\$700	\$800					
	8.0	\$55	\$134	\$212	\$290	\$368					
Yield	1.2	\$197	\$315	\$432	\$550	\$667					
t/ha	1.8	\$411	\$587	\$763	\$939	\$1,115					
	2.4	\$624	\$858	\$1,093	\$1,328	\$1,563					

HIGH RAINFALL

	Net Price \$/t												
\$400 \$500 \$600 \$700 \$8													
	8.0	\$17	\$95	\$173	\$251	\$330							
Yield	1.3	\$194	\$321	\$449	\$576	\$703							
t/ha	1.7	\$336	\$503	\$669	\$835	\$1,001							
	2.5	\$621	\$865	\$1,110	\$1,354	\$1,599							



HISTORIC PRICES AND TRENDS



Machinery Costs- Assuming full ownership of machinery

(Fuel and repairs only- excludes depreciation and other ownership costs)

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	9	4.95	3.02
roll	1	1.20	1.34
harvest#	1	12.00	6.71
TOTAL		22.04	15.05

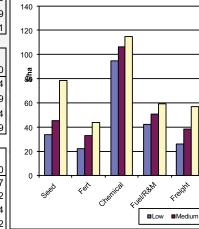
[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Field Peas Gross Margin

INCOME										2017 YOUR
		Rai	nfall Zo	ne	LOW		MEDIUM		HIGH	ESTIMATE
Price (17/18 Forecast))				\$350		\$350		\$350	
Quality	Kaspa									
Yield (t/ha)					1		1.5		2.2	
GROSS INCOME					\$350		\$525		\$770	
					7000		70-0		7111	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Seed	\$0.35	/kg	@	90	\$31.50	100	\$35.00	110	\$38.50	
Seed Grading	\$25.40	/tonne	@	90	\$2.29	100	\$2.54	110	\$2.79	
P-Pickel	\$75.20	/tonne	@		\$0.00	100	\$7.52	110	\$8.27	
Apron® XL	\$262.50		@		\$0.00		\$0.00	110	\$28.88	
Levies	*	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		*****		7		4_0.00	
GRDC Levies	1.0%	Gross Income			\$3.50		\$5.25		\$7.70	
EPR &state levies		/tonne sold			\$3.00		\$4.50		\$6.60	
Fertiliser (Bulk)	ψ5.00	, torino dolu			Ψ5.00		Ψ+.00		Ψ0.00	
MAP	\$550	/tonne	@	40	\$22.00	60	\$33.00	80	\$44.00	
	****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		V		70000		*	
Chemicals-Herbicides	3									
Summer Weed Conf		Various Allo	w		\$20.00		\$20.00		\$20.00	
Pre-emergents			-		+20.00		,20.00		÷20.00	
Trifluralin 480g/L	\$7.50	/litre	@	1.2	\$9.00	1.5	\$11.25	1.7	\$12.75	
Tri-allate 500g/L	\$10.40	/litre	@	1.6	\$16.64	1.6	\$16.64	1.6	\$16.64	
Glyphosate 540	\$6.00	/litre	@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L	\$220.00	/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Post-emergents										
Terbyne	\$26.50	/kg	@	0.86	\$22.79	1	\$26.50	1.2	\$31.80	
Clethodim(incl Oil)	\$12.00	/litre	@	0.3	\$5.93	0.5	\$8.33	0.7	\$10.73	
Haloxyfop 520g/L	\$44.00	/litre	@	0.04	\$1.76	0.04	\$1.76	0.04	\$1.76	
Paraquat(Topping) Insecticides	\$4.00	/litre	@	8.0	\$3.20	0.8	\$3.20	8.0	\$3.20	
Karate Zeon® (1)	\$116.00	/litre	@	0.024	\$2.78	0.024	\$2.78	0.024	\$2.78	
Karate Zeon® (2)	\$116.00	/litre	@		\$0.00	0.024	\$0.93	0.024	\$0.93	
Omethoate (3)	\$26.00	/litre	@	0.05	\$1.30	0.05	\$1.30	0.05	\$1.30	
Fungicides										
Tebuconazole (4)	\$12.00	/litre	@		\$0.00	0.145	\$1.74	0.145	\$1.74	
Operations										
Fuel & Oil					\$14.38		\$17.25		\$20.13	
Repairs & Maintena	nce				\$28.14		\$33.77		\$39.40	
Fortulat										
Freight	¢25.00	ltanna	@	1.0	¢25.00	1.5	¢27.50	2.2	¢ EE 00	
Grain (t)	\$25.00		@	1.0 0.04	\$25.00 \$0.80	1.5 0.06	\$37.50 \$1.20	2.2 0.08	\$55.00 \$1.60	
Fertiliser (t)	\$20.00	/tonne	@	0.04	\$0.80	0.06	\$1.20	0.08	\$1.60	
Contract Work										
Contract Work		/ha	@		\$0.00		\$0.00		\$0.00	
		/ha	@		\$0.00		\$0.00		\$0.00	
Insurance	\$16.00		@		\$5.60		\$8.40		\$12.32	
Other	\$0.00		\(\text{\tin}\text{\tetx{\text{\tetx{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\texi}\tiex{\tiint{\text{\texit{\texi}\titt{\text{\ti}\tintt{\text{\texi}\text{\texit{\tet		\$0.00		ψ3.40		Ψ12.02	
	\$0.00				\$0.00					
TOTAL VARIABLE C				-	\$231		\$292		\$380	
GROSS MARGIN/hec	tare				\$119		\$233		\$390	
Break Even Price (to	cover varia	able co <u>sts onl</u>	y)		\$231		\$195		\$173	
Break Even Yield (to					0.66		0.83		1.09	
Gross Margin based					\$159		\$293		\$478	
COMMENTS	on last 5 ye	average pr	100			MIC NOTES			ΨΤΙΟ	
(1) Native budworm co	ontrol				1			ore suited to	o lower rain	fall situations
(2) Pea weevil border						J. Judou vai	.s.ioo aro m	c.o canoa n		.s ondutions
(3) RLEM	-				il					

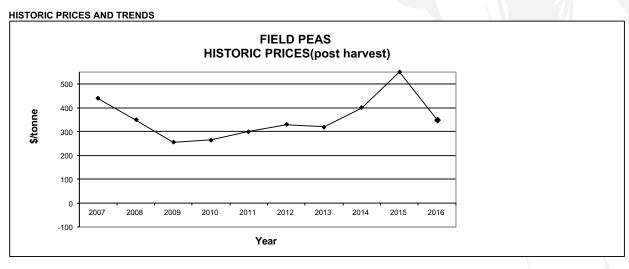
Field Peas Gross Margin

ROSS MAR	GIN SENSIT			OW RAIN	FALL						
		Net P	rice \$/t			\\			\/-	riable	C4
		\$250	\$300	\$350	\$400	\$450			Vá	iriabie	Cost
	0.75	-\$32	\$4	\$41	\$77	\$114					
Yield	1	\$21	\$70	\$119	\$167	\$216					
t/ha	1.25	\$75	\$136	\$197	\$258	\$319	140				
	1.5	\$129	\$202	\$275	\$348	\$421	120 -				
	•		N	MEDIUM R	AINFALL]	
		Net P	rice \$/t				100 -		11		
		\$250	\$300	\$350	\$400	\$450	- Saha				
	1	-\$21	\$28	\$77	\$125	\$174	87a -				
Yield	1.5	\$87	\$160	\$233	\$306	\$379	60 -				
t/ha	2	\$195	\$292	\$389	\$487	\$584					
	2.5	\$302	\$424	\$546	\$668	\$789	40 -	$ \square$			\vdash



□High

		HIGH RAINFALL										
Net Price \$/t												
		\$250	\$300	\$350	\$400	\$450						
	1.5	\$24	\$98	\$171	\$244	\$317						
Yield	2	\$132	\$230	\$327	\$424	\$522						
t/ha	2.2	\$175	\$282	\$390	\$497	\$604						
	3	\$348	\$494	\$640	\$786	\$932						



Machinery Costs- Assuming full ownership of machinery

(Fuel and repairs only- excludes depreciation and other ownership costs)

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	7	3.85	2.35
roll	1	1.20	1.34
harvest#	1	19.20	6.71
TOTAL		28.14	14.38

[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Faba Bean Gross Margin

										2017
INCOME				_						YOUR
			Rainfall Zo	one	LOW		MEDIUM		HIGH	ESTIMATE
Price (17/18 Forecast	t)				\$330		\$330		\$330	
Quality	Fie Grade 1									
Yield (t/ha)					0.8		1.6		2.8	
GROSS INCOME					\$264		\$528		\$924	
					•					
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed	0001				Ψ/		Ψ/		Ψ/α	
Seed	\$0.27	/ka	@	100	\$27.00	110	\$29.70	130	\$35.10	
Seed Inoculant	\$0.05	-	@	100	\$5.20	110	\$5.72	130	\$6.76	
	ψ0.03	/kg	w	100	ψ5.20	110	Ψ5.12	130	ψ0.70	
Levies GRDC Levies	4.00/	Cuasa In			# 0.64		ሰ ር ጋር		CO 04	
		Gross In			\$2.64		\$5.28		\$9.24	
EPR &state levies	\$4.00	/tonne so	old		\$3.20		\$6.40		\$11.20	
Fertiliser (Bulk)	¢ EE0	/tonno	@	40	\$22.00	60	¢22.00	80	¢44.00	
MAP	•	/tonne	@	40	\$22.00	60	\$33.00	80	\$44.00	
Chemicals-Herbicide Summer Weed Cor		Various	Allow		\$20.00		\$20.00		\$20.00	
	ntroi	various	Allow		\$20.00		\$20.00		\$20.00	
Pre-emergents	# 0.00	/l:4	_	1 4 2	ф т ОО	4.0	67.00	4.0	67.00	
Glyphosate 540	\$6.00		@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L		/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Trifluralin 480g/L	•	/litre	@	0.8	\$6.00	0.8	\$6.00	0.8	\$6.00	
Simazine 900g/kg	\$7.60	/kg	@	0.83	\$6.31	0.83	\$6.31	0.83	\$6.31	
Post-emergents	* 40.00				A= 00				0.40 70	
Clethodim(incl Oil)	\$12.00	/litre	@	0.3	\$5.93	0.5	\$8.33	0.7	\$10.73	
Haloxyfop 520g/L	\$44.00	/litre	@	0.04	\$1.76	0.04	\$1.76	0.04	\$1.76	
Paraquat(Desiccant)	\$4.00	/litre	@	0.8	\$3.65	0.8	\$3.65	8.0	\$3.65	
Insecticides	400.00				40.00					
omethoate (1)	\$26.00	/litre	@	0.1	\$2.60	0.1	\$2.60	0.1	\$2.60	
Karate Zeon® (2)	\$116.00		@	0.024	\$2.78	0.024	\$2.78	0.024	\$2.78	
Dimethoate (3)	\$8.45	/litre	@	0.5	\$4.23	0.5	\$4.23	0.5	\$4.23	
Fungicides	#40.00	//: A			#0.00	0.0	#0.00	0.0	#0.00	
Tebuconazole(4)	\$12.00		@	4.7	\$0.00	0.3	\$3.60	0.3	\$3.60	
Mancozeb-low r/f	\$8.90	•	@	1.7	\$15.13	0	\$0.00	0	\$0.00	
Mancozeb-Med/high	\$8.90	•	@	0	\$0.00 \$0.00	5.1	\$45.39	5.1	\$45.39	
Procymidone	\$20.80		@		φυ.υυ	0.5	\$0.00	0.5 1	\$10.40	
Carbendazim 2 applic Operations	\$16.40	/IIIre	@			0.5	\$8.20	ı	\$16.40	
Fuel & Oil					\$12.25		\$14.70		\$17.15	
Repairs & Maintena	anco				\$20.29		\$24.35		\$28.41	
Freight	ance				Ψ20.23		Ψ24.55		Ψ20.41	
Grain (t)	\$25.00	/toppo	@	0.8	\$20.00	1.6	\$40.00	2.8	\$70.00	
Fertiliser (t)	\$20.00		@	0.04	\$0.80	0.06	\$40.00	0.08	\$70.00 \$1.60	
rennisei (t)	φ20.00	/torine	@	0.04	φυ.ου	0.00	φ1.20	0.06	φ1.00	
Contract Work										
Aerial spraying	\$14.00	/ha	@		\$0.00	2	\$28.00	2	\$28.00	
	Ţ .		•		20.00		Ţ_0.00	_	‡ 20.30	
Insurance	\$12.00	/\$1000	@		\$3.17		\$6.34		\$11.09	
	*	, •	•		*****		7		*******	
TOTAL VARIABLE (COSTS				\$197		\$319		\$408	
GROSS MARGIN/he	ctare				\$67		\$209		\$516	
Break Even Price (to	o cover var	iable cos	ts only)		\$246		\$199		\$146	
Break Even Yield (to					0.60		0.97		1.24	
Gross Margin based					\$157		\$388		\$830	
COMMENTS		- ALLECT AND	age price		Ψ 1 0 /	ACD	ONOMIC NO	TES	+000	

COMMENTS

- (1) RLEM control (2) Native Budworm control
- (3) Cow pea aphid (4) Cercospora Mancozeb for Ascochyta. Procymidone and Carbendazim for chocalate spot

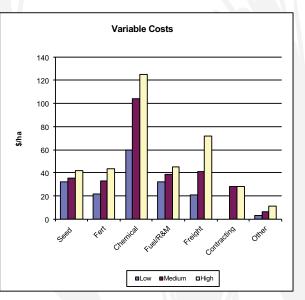
AGRONOMIC NOTES

No allowance is made in this gross margin as to the economic benefit of bean stubble to livestock.

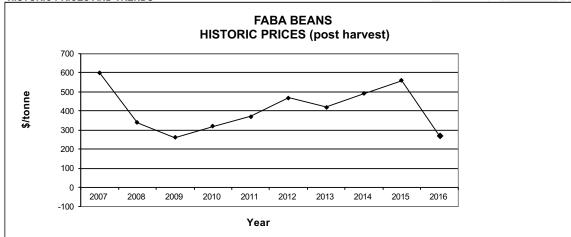
Faba Bean Gross Margin

GROSS MARGIN SENSITIVITY LOW RAINFALL

		Net I	Price \$/t									
		\$250	\$300	\$350	\$400	\$450						
	0.4	-\$81	-\$62	-\$42	-\$23	-\$3						
Yield	0.8	\$5	\$44	\$83	\$122	\$161						
t/ha	1.5	\$156	\$229	\$302	\$376	\$449						
	2	\$263	\$361	\$459	\$557	\$655						
	MEDIUM RAINFALL											
		Net I	Price \$/t									
		\$250	\$300	\$350	\$400	\$450						
	1	-\$46	\$3	\$52	\$101	\$150						
Yield	1.6	\$84	\$162	\$240	\$318	\$397						
t/ha	2	\$170	\$268	\$365	\$463	\$561						
	2.5	\$278	\$400	\$522	\$644	\$767						
				HIGH RAI	NFALL							
		Net F	Price \$/t									
		\$250	\$300	\$350	\$400	\$450						
	1	-\$91	-\$42	\$7	\$56	\$105						
Yield	2	\$125	\$222	\$320	\$418	\$516						
t/ha	2.8	\$297	\$434	\$571	\$708	\$845						
	4	\$556	\$751	\$947	\$1,142	\$1,338						



HISTORIC PRICES AND TRENDS



Machinery Costs- Assuming full ownership of machinery

(Fuel and repairs only- excludes depreciation and other ownership costs)

Operation	No.	Repairs & Maint	Fuel
Operation	NO.	Repairs & Maint	ruei
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	8	4.40	2.68
harvest#	1	12.00	5.59
TOTAL	·	20.29	12.25

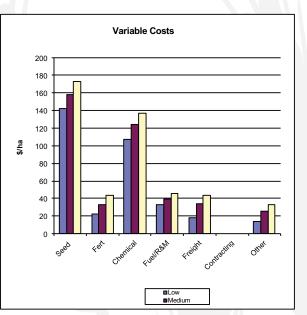
[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Chickpeas (6-8mm Kabuli) Gross Margin

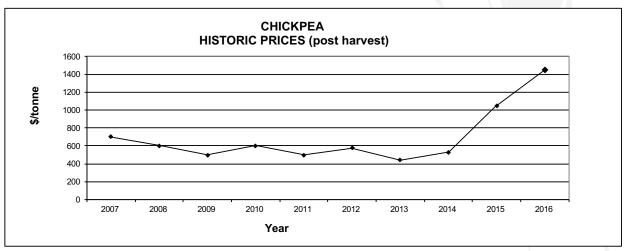
INCOME										2017 YOUR
		Rai	nfall Zo	ne	LOW		MEDIUM		HIGH	ESTIMAT
Price (17/18 Forecast)					\$700		\$700		\$700	
Quality	6-8 mm Ka	buli								
Yield (t/ha)					0.7		1.3		1.7	
GROSS INCOME					\$490		\$910		\$1,190	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
Seed	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed	\$1.45	/kg	@	90	\$130.50	100	\$145.00	110	\$159.50	
Seed Inoculant	\$52.00	/tonne	@	90	\$4.68	100	\$5.20	110	\$5.72	
P-Pickel	\$75.20		@	90	\$6.77	100	\$7.52	110	\$8.27	
Levies			Ü		·					
GRDC Levies	1.0%	Gross Income			\$4.90		\$9.10		\$11.90	
EPR &state levies	\$5.50	/tonne sold			\$3.85		\$7.15		\$9.35	
Fertiliser (Bulk)	,				,				,	
MAP	\$550	/tonne	@	40	\$22.00	60	\$33.00	80	\$44.00	
Chemicals-Herbicides										
Summer Weed Contr	ol	Various Allo	w		\$20.00		\$20.00		\$20.00	
Pre-emergents										
trifluralin 480g/L	\$7.50	/litre	@	1.25	\$9.38	1.25	\$9.38	1.25	\$9.38	
Tri-allate 500g/L	\$10.40	/litre	@	1.6	\$16.64	1.6	\$16.64	1.6	\$16.64	
Glyphosate 540	\$6.00		@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L		/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Balance®	\$0.16	/gram	@	75	\$12.00	100	\$16.00	100	\$16.00	
5 .										
Post-emergents	¢10.00	/litro	@		¢ E 00	0.5	#0.30	0.7	¢40.70	
Clethodim(incl Oil)	\$12.00 \$44.00	/litre /litre	@	0.3 0.04	\$5.93 \$1.76	0.5 0.04	\$8.33 \$1.76	0.7 0.04	\$10.73 \$1.76	
Haloxyfop 520g/L Insecticides	Φ44.00	/IIII e	@	0.04	φ1.70	0.04	φ1.76	0.04	φ1.70	
Omethoate	\$26.00	/litro	@	0.05	\$1.30	0.05	\$1.30	0.05	\$1.30	
Karate Zeon®	\$116.00		@ @	0.03	\$2.78	0.03	\$2.78	0.03	\$1.30	
Fungicides	ψ110.00	/iide	w	0.024	Ψ2.10	0.024	Ψ2.70	0.024	Ψ2.70	
Chlorothalonil	\$12.80	/litre	@	2	\$30.72	3.2	\$40.96	4	\$51.20	
			\cup				7 . 3.00	•	, 0	
Desiccation										
Paraquat(Desiccant)	\$4.00	/litre	@	8.0	\$12.20	8.0	\$12.20	8.0	\$12.20	
Operations										
Fuel & Oil					\$12.25		\$14.70		\$17.15	
Repairs & Maintenan	ce				\$20.29		\$24.35		\$28.41	
Freight										
Crain (t)	ድጋድ በበ	ltanna	@	0.7	\$17.50	1.2	¢22 E0	1.7	\$42.50	
Grain (t) Fertiliser (t)	\$25.00 \$20.00		@ @	0.7 0.04	\$0.80	1.3 0.06	\$32.50 \$1.20	0.08	\$42.50 \$1.60	
r erunser (t)	φ∠∪.∪∪	/tornie	w	0.04	ψ0.00	0.00	φ1.ZU	0.00	φ1.00	
Contract Work										
Aerial spraying	\$14.00	/ha	@		\$0.00		\$0.00		\$0.00	
Windrowing	\$35.00	/ha	@		\$0.00	0	\$0.00	0	\$0.00	
Insurance	\$10.00	/\$1000	@		\$4.90		\$9.10		\$11.90	
Other	\$0.00	/ha								
	\$0.00	/ha								
TOTAL VARIABLE CO	STS				\$356		\$433		\$497	
GROSS MARGIN/hect	are				\$134		\$477		\$693	
Break Even Price (to	cover varia	ble costs only	y)		\$508		\$333		\$292	
Break Even Yield (to o	over varia	ble costs only	/)		0.51		0.62		0.71	
Gross Margin based o					\$210		\$619		\$878	
						OMIC NOTE				

Chickpeas (6-8mm Kabuli) Gross Margin

ROSS MA	ARGIN SENSI	TIVITY	LOW RAINFALL						
		Net I	Price \$/t			W			
		\$500	\$600	\$700	\$800	\$1,000			
	0.4	-\$141	-\$102	-\$63	-\$23	\$55			
Yield	0.7	-\$3	\$65	\$134	\$203	\$340			
t/ha	1.2	\$227	\$344	\$462	\$579	\$815			
	1.8	\$502	\$679	\$855	\$1,032	\$1,384			
				MEDIUM F	RAINFALL	\$815 \$032 \$1,384 ALL 800 \$1,000 \$2 \$100 \$04 \$859			
		Net I	Price \$/t						
		\$500	\$600	\$700	\$800	\$1,000			
	0.5	-\$145	-\$96	-\$47	\$2	\$100			
Yield	1.3	\$222	\$350	\$477	\$604	\$859			
t/ha	1.8	\$452	\$628	\$805	\$981	\$1,334			
	2.3	\$682	\$907	\$1,133	\$1,358	\$1,809			
				HIGH RAI	NFALL				
		Net F	Price \$/t						
		\$500	\$600	\$700	\$800	\$1,000			
	1	\$38	\$136	\$234	\$332	\$528			
Yield	1.5	\$268	\$415	\$562	\$709	\$1,003			
t/ha	1.7	\$360	\$526	\$693	\$860	\$1,193			
	2.5	\$727	\$972	\$1,217	\$1,462	\$1,952			



HISTORIC PRICES AND TRENDS



Machinery Costs- Assuming full ownership of machinery

(Fuel and repairs only- excludes depreciation and other ownership costs) Operation No. Repairs & Maint Fuel \$/ha \$/ha 3.89 3.98 seed spray 4.40 2.68 12.00 5.59 harvest# TOTAL 20.29 12.25

[#] Rates are for low rainfall zone. Extra cost in higher yielding situations

Canola Gross Margin Conventional Hybrid

INCOME										YOUR
			Rainfall Zo	one	LOW		MEDIUM		HIGH	ESTIMATE
Price (17/18 Forecast)					\$520		\$520		\$520	
Quality										
Yield (t/ha)					0.8		1.5		2.2	
GROSS INCOME					\$416		\$780		\$1,144	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed			_					_		
Seed	\$27.00	/kg	@	1	\$27.00	1.5	\$40.50	2	\$54.00	
Levies										
GRDC Levies	1 0%	Gross Inc	romo		\$4.16		\$7.80		\$11.44	
State levies		/tonne so			\$0.40		\$0.75		\$1.10	
Fertiliser (Bulk)	ψ0.50	/torine so	iu		ψ0.40		Ψ0.73		ψ1.10	
18:20:0	¢ 550	/tonne	@	35	\$19.25	55	\$30.25	75	\$41.25	
Urea	•	/tonne	@ @	50	\$19.25	100	\$30.25 \$44.00	75 150	\$41.25 \$66.00	
SOA	•	/tonne	@	30	\$0.00	50	\$23.00	100	\$46.00	
Chemicals-Herbicides		71011110	•		ψ0.00	00	Ψ20.00	100	ψ10.00	
Summer Weed Cont		Various	Allow		\$20.00		\$20.00		\$20.00	
Pre-emergents	.101	various	7 (IIOW		Ψ20.00		Ψ20.00		Ψ20.00	
Glyphosate 540	\$6.00	/litre	@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L	-	/litre	@	0.1	\$22.00	0.1	\$22.00	0.1	\$22.00	
Rustler (Propyzamide)		/litre	@	0	\$0.00	1	\$24.20	1	\$24.20	
Trifluralin 480g/L	\$7.50	/litre	@	1.2	\$9.00	1.5	\$11.25	1.7	\$12.75	
Post-emergents										
Haloxyfop 520g/L	\$44.00	/litre	@	0.04	\$1.76	0.04	\$1.76	0.04	\$1.76	
Clethodim(incl Oil)	\$12.00		@	0.3	\$5.93	0.5	\$8.33	0.7	\$10.73	
Clopyralid 600g/L	\$44.00	/litre	@	0.075	\$3.30	0.075	\$3.30	0.075	\$3.30	
Insecticides					0.4.50		0.4.50		0.4.50	
Chlorpyrifos 500g/L	\$9.00		@	0.5	\$4.50	0.5	\$4.50	0.5	\$4.50	
Talstar	\$48.00		@	0.04 0.1	\$1.92	0.04	\$1.92	0.04	\$1.92	
Transform (1)	\$155.00 \$116.00		@	0.1	\$15.50 \$2.78	0.1	\$15.50 \$0.00	0.1	\$15.50 \$0.00	
Karate Zeon®(2) Affirm (3)	\$110.00		@ @	0.024	\$0.00	0.3	\$25.20	0.3	\$25.20	
Operations	ψ04.00	/IIII C	w	0	ψ0.00	0.5	Ψ23.20	0.5	Ψ23.20	
Fuel & Oil					\$11.45		\$13.74		\$16.03	
Repairs & Maintenar	nce				\$16.86		\$20.24		\$23.61	
Freight										
J										
Grain (t)	\$25.00	/tonne	@	0.8	\$20.00	1.5	\$37.50	2.2	\$55.00	
Fertiliser (t)	\$20.00	/tonne	@	0.085	\$1.70	0.205	\$4.10	0.325	\$6.50	
Contract Work										
Aerial spraying	\$14.00		@	1	\$14.00	1	\$14.00	1	\$14.00	
Windrowing	\$35.00		@		\$0.00	1	\$35.00	1	\$35.00	
Insurance	\$12.00		@		\$4.99		\$9.36		\$13.73	
Urea spreading	\$8.50	/na	@	1	\$8.50	2	\$17.00	2	\$17.00	
TOTAL VARIABLE COSTS					\$244		\$442		\$550	
GROSS MARGIN/hec	tare				\$172		\$338		\$594	
Break Even Price (to	cover varia	ble costs	only)		\$305		\$295		\$250	
Break Even Yield (to	cover varia	ble costs	only)		0.47		0.85		1.06	
Gross Margin based					\$165		\$326		\$577	

COMMENTS
(1) Green Peach Aphid
(2) Native Budworm-Low rainfall
(3) DBM and NativeBudworm. In low rainfall situations, oil penalties may apply conversely oil bonuses may be expected in high rainfall areas.

AGRONOMIC NOTES

A maximum of 15 units of nitrogen and 10 units of phosphorus should be applied with seed. Nitrogen rate dependent on target yield. Sulphur required on sandy, neutral/acid soils and intensive cropping systems. Ensure insect control and good seed/soil contact when sowing. Assumes direct heading in low rainfall/yielding situations. Direct heading is becoming more widely used in all zones

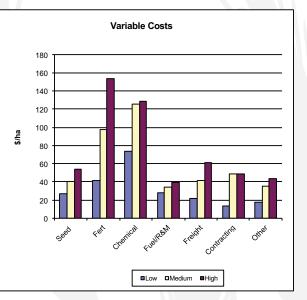
Canola Gross Margin Conventional Hybrid

GROSS MARGIN SENSITIVITY LOW RAINFALL Net Price \$/t

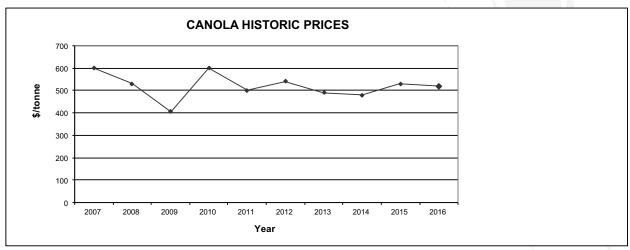
		IACI	FIICE TIL			
		\$400	\$460	\$520	\$580	\$640
	0.3	-\$105	-\$87	-\$70	-\$52	-\$35
Yield	0.8	\$78	\$125	\$172	\$219	\$266
t/ha	1.1	\$188	\$252	\$317	\$381	\$446
	1.5	\$334	\$422	\$510	\$598	\$686

			MEDIUM RAINFALL							
		Net	Price \$/t							
		\$400	\$460	\$520	\$580	\$640				
	0.7	-\$131	-\$90	-\$49	-\$8	\$33				
Yield	1.5	\$162	\$250	\$338	\$426	\$514				
t/ha	2	\$344	\$462	\$579	\$696	\$814				
	2.5	\$527	\$674	\$821	\$967	\$1,114				

			HIGH RAINFALL								
	Net Price \$/t										
		\$400	\$460	\$520	\$580	\$640					
	1	-\$103	-\$44	\$15	\$73	\$132					
Yield	1.5	\$80	\$168	\$256	\$344	\$432					
t/ha	2.2	\$336	\$465	\$594	\$723	\$852					
	3	\$629	\$805	\$981	\$1,157	\$1,333					



HISTORIC PRICES AND TRENDS



Machinery Costs- Assuming full ownership of machinery

(Fuel and repairs only-excludes depreciation and other ownership costs)

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	8	4.40	2.68
harvest#	1	8.57	4.79
TOTAL		16.86	11.45

Canola Gross Margin Triazine Tolerant

										2017
INCOME			Dainfall 7	[1.014/		MEDILIM		IIICII	YOUR
Duine (47/40 Ferrers 4)			Rainfall Z	one	LOW		MEDIUM		HIGH	ESTIMATE
Price (17/18 Forecast)					\$520		\$520		\$520	
Quality										
Yield (t/ha)					0.7		1.3		2	
GROSS INCOME					\$364		\$676		\$1,040	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Seed	\$18.00	/kg	@	2.5	\$45.00	3	\$54.00	3.5	\$63.00	
Levies										
GRDC Levies		Gross Inc			\$3.64		\$6.76		\$10.40	
State levies	\$0.50	/tonne so	ld		\$0.35		\$0.65		\$1.00	
Fertiliser (Bulk)										
18:20:0	•	/tonne	@	35	\$19.25	55	\$30.25	75	\$41.25	
Urea		/tonne	@	40	\$17.60	80	\$35.20	120	\$52.80	
SOA		/tonne	@	0	\$0.00	50	\$23.00	100	\$46.00	
Chemicals-Herbicides	3									
Summer Weed Conf	trol	Various	Allow		\$20.00		\$20.00		\$20.00	
Pre-emergents										
Simazine 900g/kg	\$7.60	/kg	@	1.1	\$8.36	1.5	\$11.40	2	\$15.20	
Trifluralin 480g/L	\$7.50	/litre	@	1.2	\$9.00	1.5	\$11.25	1.7	\$12.75	
Glyphosate 540	\$6.00		@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L	\$220.00		@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Rustler (Propyzamide)	\$21.00	/litre	@	0	\$0.00	1	\$21.00	1	\$21.00	
Post-emergents									A	
Clethodim(incl Oil)	•	/litre	@	0.3	\$5.93	0.5	\$8.33	0.7	\$10.73	
Haloxyfop 520g/L	\$44.00		@	0.04	\$1.76	0.04	\$1.76	0.04	\$1.76	
Clopyralid 600g/L	\$44.00	/litre	@	0.075	\$3.30	0.075	\$3.30	0.075	\$3.30	
Insecticides		/1:4		0.5	¢4.50	0.5	¢4.50	0.5	¢4.50	
Chlorpyrifos 500g/L	\$9.00		@	0.5 0.04	\$4.50 \$1.92	0.5 0.04	\$4.50 \$1.92	0.5 0.04	\$4.50 \$1.92	
Talstar	\$48.00 \$155.00		@	0.04	\$1.92 \$15.50	0.04	\$1.92 \$15.50	0.04	\$1.92	
Transform Karate Zeon®(1)	\$135.00		@	0.1	\$2.78	0.1	\$0.00	0.1	\$15.50	
Affirm	\$84.00		@ @	0.024	\$0.00	0.3	\$25.20	0.3	\$25.20	
Operations	Ψ04.00	/IIII C	w w	0	ψ0.00	0.5	Ψ20.20	0.5	Ψ20.20	
Fuel & Oil					\$11.45		\$13.74		\$16.03	
Repairs & Maintena	nce				\$16.86		\$20.24		\$23.61	
Freight					*		,		7_0.0.	
Grain (t)	\$25.00	/tonne	@	0.7	\$17.50	1.3	\$32.50	2	\$50.00	
Fertiliser (t)	\$20.00		@	0.075	\$1.50	0.185	\$3.70	0.295	\$5.90	
			J							
Contract Work										
Aerial spraying	\$14.00	/ha	@	1	\$14.00	1	\$14.00	1	\$14.00	
Windrowing	\$35.00	/ha	@		\$0.00	1	\$35.00	1	\$35.00	
Insurance	\$12.00	/\$1000	@		\$4.37		\$8.11		\$12.48	
Urea spreading	\$8.50	/ha	@	1	\$8.50	2	\$17.00	2	\$17.00	
							A : -			
OTAL VARIABLE COSTS					\$245		\$430		\$532	
GROSS MARGIN/hec	tare				\$119		\$246		\$508	
Break Even Price (to	eak Even Price (to cover variable costs only)				\$350		\$331		\$266	
Break Even Yield (to					0.47		0.83		1.02	
Gross Margin based					\$114		\$236		\$492	
COMMENTS				UC NOTES						

AGRONOMIC NOTES

A maximum of 15 units of nitrogen and 10 units of phosphorus should be applied with seed. Nitrogen rate dependent on target yield. Sulphur required on sandy, neutral/acid soils and intensive cropping systems. Ensure insect control and good seed/soil contact when sowing. Assumes direct heading in low rainfall/ yielding situations. Direct heading is becoming more widely used in all zones

COMMENTS

(1) Green Peach Aphid
(2) Native Budworm-Low rainfall
(3) DBM and NativeBudworm. In low rainfall situations, oil penalties may apply conversely oil bonuses may be expected in high rainfall areas.

Canola Gross Margin Triazine Tolerant

GROSS MARGIN SENSITIVITY

LOW RAINFALL

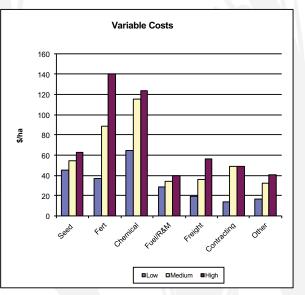
	Net Price \$/t										
\$400 \$460 \$520 \$580											
	0.3	-\$109	-\$92	-\$74	-\$56	-\$39					
Yield	0.7	\$37	\$78	\$119	\$160	\$201					
t/ha	1.1	\$183	\$248	\$313	\$377	\$442					
	1.5	\$330	\$418	\$506	\$594	\$682					

MEDIUM RAINFALL Net Price \$/t 400 \$460 \$520 \$580 \$64 126 \$85 \$44 \$3 \$3

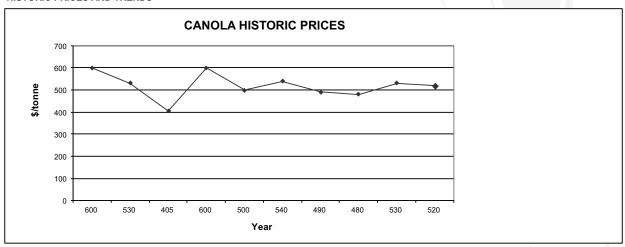
		\$400	\$460	\$520	\$580	\$640
	0.7	-\$126	-\$85	-\$44	-\$3	\$38
Yield	1.3	\$94	\$170	\$246	\$322	\$399
t/ha	2	\$350	\$467	\$584	\$702	\$819
	2.5	\$532	\$679	\$826	\$972	\$1,119

HIGH RAINFALL

		1				
		\$400	\$460	\$520	\$580	\$640
	1	-\$92	-\$34	\$25	\$84	\$142
Yield	1.5	\$91	\$179	\$267	\$355	\$443
t/ha	2	\$273	\$391	\$508	\$625	\$743
	2.5	\$456	\$603	\$750	\$896	\$1,043



HISTORIC PRICES AND TRENDS



Machinery Costs- Assuming full ownership of machinery

(Fuel and repairs only- excludes depreciation and other ownership costs)

Operation	peration No.		Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	8	4.40	2.68
harvest#	1	8.57	4.79
TOTAL		16.86	11.45

Rates are for low rainfall zone. Extra cost in higher yielding situations

Canola Gross Margin Clearfield Hybrid

										2017
INCOME				г				ı		YOUR
			Rainfall Z	one	LOW		MEDIUM		HIGH	ESTIMATE
Price (17/18 Forecast)				\$520		\$520		\$520	
Quality										
Yield (t/ha)					0.75		1.4		2.1	
GROSS INCOME					\$390		\$728		\$1,092	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Seed	\$29.00	/kg	@	1	\$29.00	1.5	\$43.50	2	\$58.00	
Levies										
GRDC Levies	1.0%	Gross Inc	ome		\$3.90		\$7.28		\$10.92	
State levies	\$0.30	/tonne sol	d		\$0.23		\$0.42		\$0.63	
Fertiliser (Bulk)										
18:20:0		/tonne	@	35	\$19.25	55	\$30.25	75	\$41.25	
Urea	\$440	/tonne	@	50	\$22.00	100	\$44.00	150	\$66.00	
SOA	\$460	/tonne	@	0	\$0.00	50	\$23.00	100	\$46.00	
Chemicals-Herbicides	S									
Summer Weed Con	trol	Various	Allow		\$20.00		\$20.00		\$20.00	
Pre-emergents										
Glyphosate 540	\$6.00	/litre	@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Trifluralin 480g/L	\$7.50	/litre	@	1.2	\$9.00	1.5	\$11.25	1.7	\$12.75	
Carfentrazone 400g/L		/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Rustler (Propyzamide)	\$21.00	/litre	@	0	\$0.00	1	\$21.00	1	\$21.00	
Post-emergents										
Intervix	•	/litre	@	0.6	\$16.80	0.6	\$16.80	0.6	\$16.80	
Adjuvant	\$4.70		@	0.375	\$1.76	0.375	\$1.76	0.375	\$1.76	
Clethodim(incl Oil)	•	/litre	@	0.3	\$5.93	0.5	\$8.33	0.7	\$10.73	
Clopyralid 600g/L	\$44.00	/litre	@	0.04	\$1.76	0.04	\$1.76	0.04	\$1.76	
Insecticides	¢0.00	/1:4			¢4 00	0.0	¢4.00	0.0	¢4.00	
Chlorpyrifos 500g/L	\$9.00		@	0.2	\$1.80	0.2	\$1.80	0.2	\$1.80	
Talstar	\$48.00		@	0.04 0.1	\$1.92	0.04	\$1.92	0.04	\$1.92	
Transform	\$155.00 \$116.00		@	0.1	\$15.50 \$2.78	0.1	\$15.50 \$0.00	0.1	\$15.50 \$0.00	
Karate Zeon®(1) Affirm	\$84.00		@ @	0.024	\$0.00	0.3	\$25.20	0.3	\$25.20	
Operations	ψ04.00	/IIII C	w		ψ0.00	0.5	Ψ23.20	0.5	Ψ23.20	
Fuel & Oil					\$11.45		\$13.74		\$16.03	
Repairs & Maintena	nce				\$16.86		\$20.24		\$23.61	
Freight					*		,		,	
- · · · · 9 · · ·										
Grain (t)	\$25.00	/tonne	@	0.8	\$18.75	1.4	\$35.00	2.1	\$52.50	
Fertiliser (t)	\$20.00		@	0.085	\$1.70	0.205	\$4.10	0.325	\$6.50	
,			•							
Contract Work										
Aerial spraying	\$14.00	/ha	@	1	\$14.00	1	\$14.00	1	\$14.00	
Windrowing	\$35.00		@		\$0.00	1	\$35.00	1	\$35.00	
Insurance	\$12.00	/\$1000	@		\$4.68		\$8.74		\$13.10	
Urea spreading	\$8.50	/ha	@	1	\$8.50	2	\$17.00	2	\$17.00	
TOTAL VARIABLE C	OSTS			1	\$239		\$433		\$541	
GROSS MARGIN/hed					\$151		\$295		\$551	
		hlo coete	only)		\$319		\$309		\$258	
Break Even Price (to										
Break Even Yield (to					0.46		0.83		1.04	
Gross Margin based	on last 5 ye			IIC NOTES	\$145		\$284		\$534	

AGRONOMIC NOTES

A maximum of 15 units of nitrogen and 10 units of phosphorus should be applied with seed. Nitrogen rate dependent on target yield. Sulphur required on sandy, neutral/acid soils and intensive cropping systems. Ensure insect control and good seed/soil contact when sowing. Assumes direct heading in low rainfall/yielding situations. Direct heading is becoming more widely used in all zones

COMMENTS
(1) Green Peach Aphid
(2) Native Budworm-Low rainfall
(3) DBM and NativeBudworm. In low rainfall situations, oil penalties may apply conversely oil bonuses may be expected in high rainfall areas.

Canola Gross Margin Clearfield Hybrid

GROSS MARGIN SENSITIVITY

LOW RAINFALL

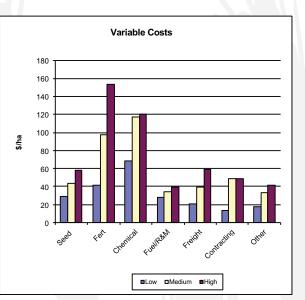
	Net Price \$/t									
		\$400	\$460	\$520	\$580	\$640				
	0.3	-\$102	-\$84	-\$67	-\$49	-\$31				
Yield	0.75	\$63	\$107	\$151	\$195	\$239				
t/ha	1.1	\$191	\$255	\$320	\$385	\$449				
	1.5	\$337	\$425	\$513	\$601	\$689				

MEDIUM RAINFALL

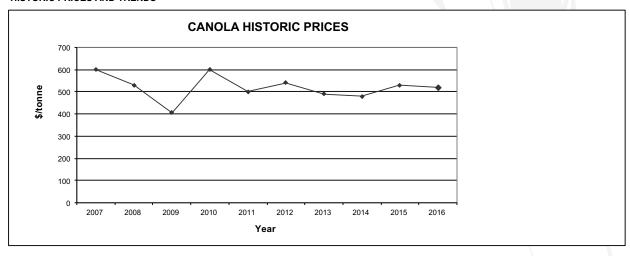
	Net Price \$/t										
		\$400	\$460	\$520	\$580	\$640					
	0.7	-\$126	-\$85	-\$43	-\$2	\$39					
Yield	1.4	\$131	\$213	\$295	\$377	\$459					
t/ha	2	\$350	\$467	\$585	\$702	\$819					
	2.5	\$533	\$680	\$826	\$973	\$1,120					

HIGH RAINFALL

	Net Price \$/t										
		\$400	\$460	\$520	\$580	\$640					
	1	-\$98	-\$40	\$19	\$78	\$136					
Yield	1.5	\$85	\$173	\$261	\$349	\$437					
t/ha	2.1	\$304	\$427	\$551	\$674	\$797					
	2.7	\$524	\$682	\$841	\$999	\$1,157					



HISTORIC PRICES AND TRENDS



Machinery Costs- Assuming full ownership of machinery

(Fuel and repairs only- excludes depreciation and other ownership costs)

Operation	No.	Repairs & Maint	Fuel		
		\$/ha	\$/ha		
seed	1	3.89	3.98		
spray	8	4.40	2.68		
harvest#	1	8.57	4.79		
TOTAL		16.86	11.45		

Rates are for low rainfall zone. Extra cost in higher yielding situations

Sown Pasture (Vetch) Gross Margin

INCOME								j 1		YOUR
			Rainfall Zo	one	LOW		MEDIUM		HIGH	ESTIMA
Carrying Capacity (dry Estimated return per de replacing Merino Ewe to replacing Merino Ewe t	se based or				4		7		10	
	ilook				\$49.00 \$196		\$49.00 \$343		\$50.00 \$500	
GROSS INCOME					φ1 3 0		\$343		\$300	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High		
Seed										
Seed	\$0.30	/kg	@	25	\$7.50	35	\$10.50	35	\$10.50	
Seed Inoculant	\$0.05	/kg	@	25	\$1.30	35	\$1.82	35	\$1.82	
Levies										
					\$0.00		\$0.00		\$0.00	
Fertiliser (Bulk)										
MAP	\$550	/tonne	@	40	\$22.00	60	\$33.00	80	\$44.00	
Chemicals-Herbicides										
Pre-emergents										
Glyphosate 540	\$6.00		@	1.2	\$7.20	1.2	\$7.20	1.2	\$7.20	
Carfentrazone 400g/L Post-emergents	\$220.00	/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Clethodim(incl Oil)	\$12.00	/litre	@	0.4	\$7.13	0.5	\$8.33	0.5	\$8.33	
Haloxyfop 520g/L	•	/litre	@	0.075	\$3.30	0.075	\$3.30	0.075	\$3.30	
Glypho 540 (desiccant)	\$6.00	/litre	@	1.5	\$9.00	1.5	\$9.00	1.5	\$9.00	
Carfentrazone 400g/L Insecticides	\$220.00	/litre	@	0.02	\$4.40	0.02	\$4.40	0.02	\$4.40	
Dimethoate (1)	\$8.45	/litre	@	0.4	\$3.38	0.4	\$3.38	0.4	\$3.38	
omethoate (2)	\$26.00	/litre	@			0.05	\$1.30	0.05	\$1.30	
Operations										
Fuel & Oil					\$5.32		\$5.32		\$5.32	
Repairs & Maintenar	nce				\$6.09		\$6.09		\$6.09	
Freight										
Grain (t)					\$0.00		\$0.00		\$0.00	
Fertiliser (t)	\$20.00	/tonne	@	0.04	\$0.80	0.06	\$1.20	0.08	\$1.60	
Contract Work										
Aerial spraying										
Insurance		/\$1000	@		\$0.00		\$0.00		\$0.00	
Other										
TOTAL VARIABLE CO	OSTS			1	\$82		\$99		\$111	
GROSS MARGIN/hec	tare				\$114		\$244		\$389	

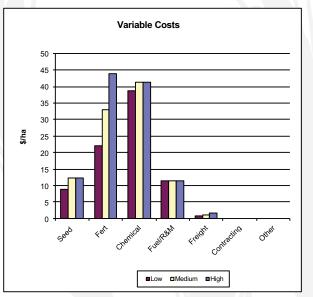
(2) RLEM

Sown Pasture (Vetch) Gross Margin

GROSS MA	RGIN SEN	ISITIVITY	LOW RAINFALL				
		GM/dse					
		\$30	\$35	\$40	\$45	\$50	
	2	-\$22	-\$12	-\$2	\$8	\$18	
Carrying	4	\$38	\$58	\$78	\$98	\$118	
Capacity	6	\$98	\$128	\$158	\$188	\$218	
(dse)	8	\$158	\$198	\$238	\$278	\$318	

		MEDIUM RAINFALL							
		GM/dse							
		\$30	\$35	\$40	\$45	\$50			
	3	-\$9	\$6	\$21	\$36	\$51			
Carrying	5	\$51	\$76	\$101	\$126	\$151			
Capacity	7	\$111	\$146	\$181	\$216	\$251			
(dse)	9	\$171	\$216	\$261	\$306	\$351			

		HIGH RAINFALL							
		GM/dse							
		\$30	\$35	\$40	\$45	\$50			
	4	\$9	\$29	\$49	\$69	\$89			
Carrying	7	\$99	\$134	\$169	\$204	\$239			
Capacity	10	\$189	\$239	\$289	\$339	\$389			
(dse)	12	\$249	\$309	\$369	\$429	\$489			



Machinery Costs- Assuming full ownership of machinery

(Fuel and repairs only- excludes depreciation and other ownership costs)

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.89	3.98
spray	4	2.20	1.34
roll		0.00	0.00
harvest#		0.00	0.00
TOTAL		6.09	5.32

Self-Regenerating Pasture Gross Margin

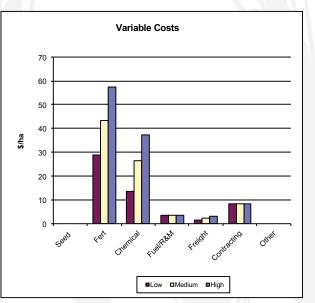
										2017
INCOME										YOUR
			Rainfall Zo	ne	LOW		MEDIUM		HIGH	ESTIMATE
Carrying Capacity (dry Estimated return per of replacing Merino Ewe	lse based or	,			4 \$49.00		7 \$49.00		10 \$50.00	
GROSS INCOME					\$196		\$343		\$500	
0.100000					V.00		40.0		4000	
VARIABLE COSTS	Cost			Rate/ha Low	\$/ha	Rate/ha Medium	\$/ha	Rate/ha High		
Seed										
Seed		/kg	@		\$0.00		\$0.00		\$0.00	
Seed Inoculant		/kg	@		\$0.00		\$0.00		\$0.00	
Levies										
					\$0.00		\$0.00		\$0.00	
Fertiliser (Bulk)										
Superphosphate	\$360	/tonne	@	80	\$28.80	120	\$43.20	160	\$57.60	
Chemicals-Herbicides	s									
Pre-emergents										
		/litre	@		\$0.00		\$0.00		\$0.00	
_		/litre	@		\$0.00		\$0.00		\$0.00	
Post-emergents	4		_		4					
Clethodim(incl Oil)	•	/litre	@	0.4	\$7.13	0.5	\$8.33	0.5	\$8.33	
Haloxyfop 520g/L	\$44.00		@	0.075	\$3.30	0.075	\$3.30	0.075	\$3.30	
Broadstrike®	\$0.42	-	@	0.0	\$0.00	25	\$10.50	50	\$21.00	
Paraquat(Topping) Insecticides	\$4.00	/litre	@	0.8	\$3.20	0.8	\$3.20	8.0	\$3.20	
	¢26.00	/litro	@		\$0.00	0.05	\$0.00	0.05	\$0.00 \$1.30	
omethoate (1)	\$26.00	/IItre	@			0.05	\$1.30	0.05	\$1.30	
Operations										
Fuel & Oil					\$1.34		\$1.34		\$1.34	
Repairs & Maintena	nce				\$2.20		\$2.20		\$2.20	
Freight										
Grain (t)					\$0.00		\$0.00		\$0.00	
Fertiliser (t)	\$20.00	/tonne	@	0.08	\$1.60	0.12	\$2.40	0.16	\$3.20	
Contract Work										
Fert Spreading	\$8.50	/ha	@	1	\$8.50	1	\$8.50	1	\$8.50	
Insurance		/\$1000	@		\$0.00		\$0.00		\$0.00	
Other					,		,		, , , , ,	
TOTAL VARIABLE O	0576				\$56		\$84		\$110	
	OTAL VARIABLE COSTS ROSS MARGIN/hectare						\$2 59		\$110 \$390	
COMMENTS	lare				\$140	DMIC NOTE			Ψ390	
(1) RLEM					AGKONC	INIIC NOIE	.5			
L					J					

Self-Regenerating Pasture Gross Margin

GROSS MA	MARGIN SENSITIVITY			LOW RAINFALL			
			GM/dse				
	\$30 \$35 \$40 \$45						
	2	\$4	\$14	\$24	\$34	\$44	
Carrying	4	\$64	\$84	\$104	\$124	\$144	
Capacity	6	\$124	\$154	\$184	\$214	\$244	
(dse)	8	\$184	\$224	\$264	\$304	\$344	
	MEDIUM RAINFALL						
GM/dse							
		\$30	\$35	\$40	\$45	\$50	

	GM/dse								
	\$30 \$35 \$40 \$45 \$5								
	3	\$6	\$21	\$36	\$51	\$66			
Carrying	5	\$66	\$91	\$116	\$141	\$166			
Capacity	7	\$126	\$161	\$196	\$231	\$266			
(dse)	9	\$186	\$231	\$276	\$321	\$366			

	HIGH KAINFALL								
	GM/dse								
\$30 \$35 \$40 \$45 \$									
	4	\$10	\$30	\$50	\$70	\$90			
Carrying	7	\$100	\$135	\$170	\$205	\$240			
Capacity	10	\$190	\$240	\$290	\$340	\$390			
(dse)	12	\$250	\$310	\$370	\$430	\$490			



Machinery Costs- Assuming full ownership of machinery

(Fuel and repairs only- excludes depreciation and other ownership costs)

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	0	0.00	0.00
spray	4	2.20	1.34
roll		0.00	0.00
harvest#		0.00	0.00
TOTAL		2.20	1.34



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Prime Lamb Gross Margin – High Rainfall (450mm+)

Assumptions			
Ave Breeding Ewe Fibre Diameter	28	Total DSE's	1840
Number of breeding ewes (First Cross)	1000	Stocking rate (DSE/Ha)	12.0
First cross ewe - Terminal meat sire			

INCOME							2017 YOUR
INCOME						<u>\$</u>	ESTIMATE
Wool (kg greasy)	4423.2	Ka	[ave price	408	c/kg]	\$18,032	ESTIMATE
Sales		animals	ave price	\$119.85		\$160,430	
GROSS INCOME		aa.	[are piles	ψ	pouj	\$178,462	
						¥11.6,162	
VARIABLE COSTS							
Shearing							
Shearing	970	sheep	@	\$293.31	/100	\$2.845	
(Federal awards)		rams	@	\$586.62	/100	\$111	
Shed labour	5	days	@	\$221.12	/day	\$1,106	
Woolclasser		days	@	\$265.89	/day	\$665	
Superannuation (on o		•	@	9.5%	wages	\$449	
Work Cover (includes	super + o'tin	ne etc)	@		total	\$189	
Wool packs	26	packs	@	\$10.00	/pack	\$260	
Shed sundries		sheep	@	\$0.15	•	\$148	
Lice control	989		@	\$1.49		\$1,476	
Crutch & Wig	990	ewes	@	\$85.06	/100	\$842	
Ü	19	rams	@	\$170.12	/100	\$32	
Marking			٥				
Lamb marking	1150	lambs	@	\$1.00	/head	\$1,150	
Ear tags	1150	lambs	@	\$0.40	/head	\$460	
Animal Health			•				
drench	3190	sheep	@	\$0.45	/head	\$1,436	
vaccinate		sheep	@	\$0.47	/head	\$1,554	
blowfly control	1000	sheep	@	\$1.29	/head	\$1,290	
Stock purchases		·	J				
Purchases						\$57,838	
Sale Costs							
Freight							
livestock	189	culls	@	\$4.00	/head	\$756	
	212	ewes	@	\$4.00	/head	\$849	
	1150	prime lambs	@	\$4.00	/head	\$4,600	
wool	26	bales	@	\$10.00	/bale	\$260	
Stock selling charge	s		_				
commission/insurance	ce		@	5.5%	gross \$	\$8,824	
yard fees	1339	head	@	\$0.70	/head	\$937	
levy-sheep	189	head	@	\$0.20	/head	\$38	
levy-lambs	1150	head	@	\$1.50	/head	\$1,725	
SA sheep industr	1339	head	@	\$0.35	/head	\$469	
Wool selling charge			•	Ţ 0		Ţ.00	
brokerage/testing/ins			@	\$0.22	/kg	\$973	
wool levy			@		gross	\$361	
Feed and Other Cost	s		٥		-		
hay		tonne	@	\$180.00	/tonne	\$3,672	
grain		tonnes	@	\$200.00		\$4,920	
o .	\$211,438		@		/\$'000	\$423	
Water		DSE's	@	\$1.50		\$2,760	
Veh Fuel, R&M	1840	DSE's	@	\$1.20		\$2,208	
Other		DSE's	@	\$0.50		\$920	
TOTAL VARIABLE C	OSTS					\$106,545	
GROSS MARGIN TO	TAL					\$71,916	
GROSS MARGIN/hec						\$469	
GROSS MARGIN/DSI						\$39	

COMMENTS

The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings,locks etc.

Super/workcover expenses relate only to shearing. DSE ratings are based on the maintenance feed requirements of a 2 year old, 50 Kg liveweight Merino Wether with a body condition score of 2.

No allowance has been made for pasture expenses such as seed, fertiliser and chemicals. These need to be separately

accounted for.

Prime Lamb Gross Margin – High Rainfall (450mm+)

PRODUCTION DATA

Stocking rate (DSE/Ha)	12.0
Total DSE's	1840
SHEEP GRAZING AREA	153
Number of ewes mated	1000
Ram percentage	2%
Age ewes bought (yrs)	1.5
Age ewes culled	6.5
Years rams kept	3
Flock death rate	3%
Average weaning rate	115%
% Lambs carried over	0%

Culling F	Culling Rate (% from each group)						
Age group	Ewes	Wethers					
0.5	0%						
1.5	0%						
2.5	0%						
3.5	0%						
4.5	0%						
5.5	0%						
6.5	100%						

SALES	Number	Price/hd	Age	Total
c.f.a ewes	182	\$90.00	6.5	\$16,380
c.f.a rams	6	\$50.00	4.5	\$300
lambs	1150	\$125.00	20 weeks	\$143,750
TOTAL	1339	\$119.85		\$160,430
PURCHASES	Number	Price/hd	Age yrs	Total
ewes	212	\$240	1.5	\$50,968
rams	7	\$1,000	1.5	\$6,871

STOCK HEALTH REQUIREMENTS

	Number	Drench	Vacc.	Blowfly	DSE
ewes	1000	2	1	1	1.8
rams	20	2	1	0	2
lambs	1150	1	2	0	
TOTAL	2170	3190	3320	1000	1840

SHEARING		Wool cut	price	Total
	Number	kg/hd		
ewes	970	4.50	\$4.10	\$17,875
crossbred rams	19	3.00	\$2.70	\$157
TOTAL	989	4423		\$18,032

FEEDING

	Hay	Kgs Fed	No weeks	Total
Number	Cost (\$/T)	per week	of Feeding	cost (\$)
1000	\$180	2.5	8	\$3,600
20	\$180	2.5	8	\$72
	Grain	Kgs Fed	No weeks	Total
Number	Cost (\$/T)	per week	of Feeding	cost (\$)
1000	\$200	3.0	8	\$4,800
20	\$200	3.0	10	\$120
	1000 20 Number 1000	Number Cost (\$/T) 1000 \$180 20 \$180 Grain Cost (\$/T) 1000 \$200	Number Cost (\$/T) per week 1000 \$180 2.5 20 \$180 2.5 Grain Kgs Fed Number Cost (\$/T) per week 1000 \$200 3.0	Number Cost (\$/T) per week of Feeding 1000 \$180 2.5 8 20 \$180 2.5 8 Grain Kgs Fed No weeks Number Cost (\$/T) per week of Feeding 1000 \$200 3.0 8

G.M. SENSITIVITY

GROSS MARGIN/DS	SE	Average Weaning Rate (%)					
		95%	105%	115%	125%	135%	145%
	\$100	\$15	\$20	\$24	\$29	\$34	\$38
	\$105	\$18	\$22	\$27	\$32	\$37	\$42
	\$110	\$20	\$25	\$30	\$35	\$41	\$46
	\$115	\$22	\$28	\$33	\$39	\$44	\$49
Average	\$120	\$25	\$30	\$36	\$42	\$47	\$53
Lamb Sale	\$125	\$27	\$33	\$39	\$45	\$51	\$57
Price (\$/hd)	\$130	\$30	\$36	\$42	\$48	\$54	\$61
	\$135	\$32	\$39	\$45	\$51	\$58	\$64
	\$140	\$35	\$41	\$48	\$55	\$61	\$68
	\$145	\$37	\$44	\$51	\$58	\$65	\$72
	\$150	\$39	\$47	\$54	\$61	\$68	\$75

Self Replacing Merino Flock - High Rainfall (450mm+)

Assumptions			
Ave Breeding Ewe Fibre Diameter	19.5	Total DSE's	2390
Number of breeding ewes	1000	Stocking rate (DSE/Ha)	12.0

INCOME							2017 YOUR
INCOME						\$	ESTIMATE
Wool (kg greasy)	9134	Kg	[ave price	920	c/kg]	\$84,012	
Sales	862	animals	[ave price	\$116.74		\$100,660	
GROSS INCOME						\$184,672	
VARIABLE COSTS							
Shearing Shearing	2324	sheep	@	\$293.31	/100	\$6,817	
(Federal Awards)		rams	@ @	\$586.62		\$147	
Shed labour		days	_	\$221.12		\$2.653	
		•	@		•	, ,	
Woolclasser		days	@	\$265.89	•	\$1,595	
Superannuation (on ord			@		wages	\$1,065	
Work Cover (includes su	uper + o'tir	ne etc)	@	4.0%	total	\$491	
Wool packs	54	packs	@	\$10.00	/pack	\$540	
Shed sundries	2349	sheep	@	\$0.15	/head	\$352	
Lice Control	2349	sheep	@	\$1.49	/head	\$3,505	
Crutch & wig	1424	sheep	@	\$85.06		\$1,211	
	25	rams	@	\$170.12	/100	\$43	
Marking							
Lamb marking	900	lambs	@	\$1.30	/head	\$1,170	
Pain relief	900	lambs	@	\$0.45	/head	\$405	
Ear tags	900	lambs	@	\$0.40	/head	\$360	
Animal Health							
drench	3900	sheep	@	\$0.45	/head	\$1,755	
vaccinate	3275	sheep	@	\$0.47	/head	\$1,533	
blowfly control		sheep	@	\$1.29	/head	\$1,935	
Sale and Purchase Co			•	*		4 1,000	
Purchases		Merino rams	@	\$1,500.00	/head	\$10,500	
Freight	862		@	\$4.00		\$3,448	
rreignt		bales		\$10.00		\$5,440	
Ctaal, aalling aharaa	34	Dales	@	\$10.00	/bale	\$340	
Stock selling charges				F F0/		# 5 500	
commission/insurance		beard	@		gross	\$5,536	
yard fees		head head	@	\$0.70 \$0.20		\$603 \$82	
Sheep trans levy Lamb trans levy		head	@ @	\$0.20 \$1.50		\$675	
SA sheep industr		head	@	\$0.35		\$302	
Wool selling charges	002	nead	@	Ψ0.00	//icad	Ψ002	
brokerage/testing/insu	ırance		@	\$0.22	/kg	\$2,009	
Industry levy			@		gross	\$1,680	
Feed and other Costs			_				
Hand Feeding						\$5,290	
	277,248		@		/\$'000	\$554	
Water		DSE's	@	\$1.50		\$3,585	
Veh Fuel, R&M		DSE's	@	\$1.20		\$2,868	
Other		DSE's	@	\$0.50	/DSE	\$1,195	
TOTAL VARIABLE CO GROSS MARGIN TOTA						\$64,446 \$120,226	
GROSS MARGIN 1017						\$120,226	
GROSS MARGIN/DSE						\$50 \$50	
COMMENTS							

COMMENTS

The wool price is 90% the wool price for that micron. This takes into account the lower value of bellies, skirtings,locks etc. Super/workcover expenses relate only to shearing. DSE ratings are based on the maintenance feed requirements of a 2 year old, 50 Kg liveweight Merino Wether with a body condition score of 2. No allowance has been made for pasture expenses such as seed, fertiliser and chemicals. These need to be separately accounted for.

Self Replacing Merino Flock - High Rainfall (450mm+)

PRODUCTION DATA

12.0
2390
285
1000
2.5%
0.5
4
3%
90%

Culling Rate (% per each group)							
Age group	Ewes	Wethers					
0.5	0%	100%					
1.5	51%	0%					
2.5	0%	0%					
3.5	0%	0%					
4.5	0%	0%					
5.5	0%	0%					
6.5	100%	0%					

SALES	Number	Price/hd	Total
c.f.a ewes	182	\$95.00	\$17,290
c.f.a merino rams	6	\$50.00	\$300
ewe hoggets	224	\$180.00	\$40,320
wether lambs	450	\$95.00	\$42,750
TOTAL	862	\$116.74	\$100,660

STOCK HEALTH

	Number of times							
	Number	DSE	Drench	Vacc.	Blowfly			
ewes	1000	1.8	2	1	1			
ewe hoggets	450	1.2	2	1	1			
wether weaners	0	8.0	1	1	0			
merino lambs	900	0.0	1	2	0			
merino rams	25	2.0	4	1	2			
TOTAL	2375	2390	3900	3275	1500			
Total Value	\$277,248							

FEEDING

Feed	Number of	Hay	kg/	animal	Total
	Animals	Cost (\$/T)			cost (\$)
Oats/barley	833	\$200	10	/ewe	\$1,666
Lupins	833	\$300	10	/ewe	\$2,499
Lupins	375	\$300	10	/weaner	\$1,125
Total					\$5,290

SHEARING		Wool cut	Total	Yield	Total
	Number	kg/hd	Greasy kg	(%)	Clean kg
ewes	981	5.70	5592	70%	3914
ewe hoggets	443	4.50	1995	70%	1396
wether weaners	0	4.50	0	70%	0
lambs	900	1.50	1350	70%	945
merino rams	25	8.00	197	70%	138
Adults	1449	5.68	7784		
Total	2349		9134		6394

FLOCK STRUCTURE This table shows the number of merino sheep in each age group at mating

Class of				Age Group			
Sheep	0.5 y.o.	1.5 y.o.	2.5 y.o.	3.5 y.o.	4.5 y.o.	5.5 y.o.	6.5 y.o.
Ewes	450	212	206	200	194	188	0
Wethers	0	0	0	0	0	0	0
Rams		7	6	6	6	0	0

SENSITIVITY ANALYSIS

GROSS MARGIN/DS	SE		Average Grea	sy Wool Price (c/Kg)		
		800	900	920	950	1000	1100
	\$85	\$35	\$39	\$39	\$41	\$42	\$46
	\$90	\$37	\$40	\$41	\$42	\$44	\$48
	\$95	\$38	\$42	\$43	\$44	\$46	\$50
	\$100	\$40	\$44	\$45	\$46	\$48	\$51
Average	\$105	\$42	\$46	\$46	\$47	\$49	\$53
Sale Price	\$110	\$44	\$47	\$48	\$49	\$51	\$55
All Sheep	\$116	\$46	\$49	\$50	\$51	\$53	\$57
(\$/hd)	\$120	\$47	\$51	\$51	\$53	\$54	\$58
	\$125	\$49	\$52	\$53	\$54	\$56	\$60
	\$130	\$50	\$54	\$55	\$56	\$58	\$62
	\$135	\$52	\$56	\$57	\$58	\$60	\$63

Merino Wethers - High Rainfall (450mm+)

Assumptions:			
Average Wether Fibre Diametre	19.5	Gross Margin per Ha	\$395
Number of adult wethers	1000	Gross Margin per DSE	\$33
Total DSE's	1200	Gross Margin/Wether	\$40
Stocking rate (DSE/Ha)	12.0	-	

							2017
INCOME						\$	YOUR ESTIMATE
Wool (kg greasy)	6790	Ka	[ave price	920	c/kg]	\$62,454	LOTIMATE
Sales	182	-	[ave price	\$110.00		\$20,060	
GROSS INCOME			• •			\$82,515	
EXPENSES							
Shearing	.=.		-	*****	4400	00045	
Shearing		sheep	@	\$293.31		\$2,845	
Shed labour		days	@	\$221.12	•	\$1,106	
Woolclasser		days	@	\$265.89	•	\$665	
Superannuation (on	-		@		wages	\$438	
Work Cover (on wage		,	@		total	\$202	
Wool packs		packs	@	\$10.00	•	\$400	
Shed sundries		sheep	@	\$0.15		\$146	
Lice control	970	•	@	\$1.49		\$1,447	
Crutching Animal Health	1000	sheep	@	\$85.06	/100	\$851	
drench	1000	sheep	@	\$0.45	/hoad	\$450	
vaccinate		sheep	@ @	\$0.43		\$450 \$468	
blowfly control		sheep	@	\$1.29		\$1,290	
Other Expenses		sheep	@	\$0.00		ψ1,290 \$0	
Stock Purchases	U	знеер	w	ψ0.00	/ileau	ΨΟ	
Purchases	212	wethers	@	\$95.00	/head	\$20,140	
Sale costs and othe		Woulde	©	ψου.σσ	modu	Ψ20,110	
Freight	•						
livestock	395		@	\$4.00	/head	\$1,580	
wool		bales	@	\$10.00		\$400	
Stock selling charge		baioo	٩	Ψ10.00	75aio	ψ 100	
			@	E E0/	arooo	¢4 402	
commission/insurar			@		gross	\$1,103	
yard fees		head	@		/head	\$127	
transaction levy	182	head	@	\$0.20	/head	\$36	
SA sheep industr	182	head	@	\$0.35	/head	\$64	
Wool selling charg	ges						
brokerage/testing/ir	nsurance		@	\$0.22	/kg	\$1,494	
Industry levy			@	2.00%	gross	\$1,249	
Other Expenses			O		Ü	, ,	
Hand Feeding						\$2,700	
Insurance	102500	value	@	\$2.00	/\$'000	\$205	
Water		DSE's	@	\$1.50		\$1,800	
Veh Fuel, R&M		DSE's	@	\$1.00		\$1,200	
Other Expenses		DSE's	@	\$0.50		\$600	
TOTAL VARIABLE (\$43,006	
GROSS MARGIN						\$39,508	
GROSS MARGIN/he	ctare					\$395	
GROSS MARGIN/DS	SE .					\$33	

COMMENTS

The wool price is 90% the wool price for that micron. This takes into account the lower value of bellies, skirtings,locks etc. Super/workcover expenses relate only to shearing. DSE ratings are based on the maintenance feed requirements of a 2 year old, 50 Kg liveweight Merino Wether with a body condition score of 2. No allowance has been made for pasture expenses such as seed, fertiliser and chemicals. These need to be separately accounted for.

Merino Wethers - High Rainfall (450mm+)

PRODUCTION DATA

1110000110110111	
Stocking rate (DSE/Ha)	12.0
Total DSE's	1200
SHEEP GRAZING AREA	100
Number of wethers	1000
Flock death rate	3%
Age wethers bought (yrs)	0.5
Age wethers culled	5.5

Culling R	Stock		
Age group	Ewes	Wethers	No's
0.5		0%	212
1.5		0%	206
2.5		0%	200
3.5		0%	194
4.5		0%	188
5.5		100%	Λ.

SALES	Number	Price/hd	Age	Total
c.f.a wethers	182	\$110.00	5.5	\$20,020
TOTAL	182			\$20,020
PURCHASES	Number	Price/hd	Age yrs	Total
wethers	212	\$95	0.5	\$20,175

STOCK VALUE AND D.S.E REQUIREMENT

wethers TOTAL

	Value	Ave Live	DSE
Number	\$/head	Wt (Kgs)	rating
1000	\$103	55	1.2
1000			

STOCK HEALTH REQUIREMENTS

		Number of times					
	Number	Number Drench Vacc. Blowfly					
wethers	1000	1	1	1	1.2		
TOTAL	1000	1000	1000	1000	1200		

SHEARING		Wool cut	Total	Yield	Total
	Number	kg/hd	Greasy kg	(%)	Clean kg
wethers	970	7.00	6790	70%	4753
TOTAL	970		6790		4753

HAND FEEDING

Oats/barley Hay Lupins Total

kg fed	/animal	\$/tonne	Total
	kg/wether	200	\$0
15	kg/wether	180	\$2,700
	kg/wether	300	\$0
			\$2,700

SENSITIVITY TABLE

GROSS MARGIN/D	DSE	Average Greasy Wool Price (c/Kg)					
		850	900	920	950	1000	1050
	\$85	\$25	\$28	\$29	\$31	\$34	\$37
	\$90	\$26	\$29	\$30	\$32	\$34	\$37
	\$95	\$27	\$30	\$31	\$32	\$35	\$38
	\$100	\$28	\$30	\$31	\$33	\$36	\$39
Average	\$105	\$28	\$31	\$32	\$34	\$37	\$39
Sale Price	\$110	\$29	\$32	\$33	\$35	\$37	\$40
of wethers	\$115	\$30	\$33	\$34	\$35	\$38	\$41
(\$/hd)	\$120	\$30	\$33	\$34	\$36	\$39	\$42
	\$125	\$31	\$34	\$35	\$37	\$40	\$42
	\$130	\$32	\$35	\$36	\$37	\$40	\$43
	\$135	\$33	\$35	\$37	\$38	\$41	\$44

Prime Lamb Gross Margin - Cereal Zone (250 - 450mm)

Assumptions			
Ave Breeding Ewe Fibre Diameter	21	Total DSE's	1850
Number of breeding ewes (Merino)	1000	Stocking rate (DSE/Ha)	6.0
Merino ewe - Terminal meat sire			

INCOME							YOUR
						<u>\$</u>	ESTIMATE
Wool (kg greasy)	6378	Kg	[ave price	850	c/kg]	\$54,218	
Sales	1189	animals	[ave price	\$110.68	per hd]	\$131,690	
GROSS INCOME						\$185,908	
VARIABLE COSTS							
Shearing							
Shearing	970	sheep	@	\$293.31	/100	\$2,845	
(Federal awards)		rams	@	\$586.62		\$141	
Shed labour	5	days	@	\$221.12	/day	\$1,106	
Woolclasser	2.5	days	@	\$265.89	/day	\$665	
Work Cover (includes super +	o'time etc)		@	9.50%	total	\$452	
Superannuation (on ordinary	wages only)		@	4.00%	wages	\$190	
Wool packs	38	packs	@	\$10.00	/pack	\$380	
Shed sundries	994	sheep	@	\$0.15	/head	\$149	
Lice control	994	sheep	@	\$0.46	/head	\$456	
Crutch & Wig	0	lambs	@	\$85.06	/100	\$0	
	1019	ewes	@	\$85.06	/100	\$867	
Marking							
Lamb marking	950	lambs	@	\$1.00	/head	\$950	
Ear tags	950	lambs	@	\$0.40	/head	\$380	
Animal Health							
drench	2000	sheep	@	\$0.45	/head	\$900	
vaccinate	2925	sheep	@	\$0.37	/head	\$1,088	
blowfly control	1000	sheep	@	\$1.29	/head	\$1,290	
Stock purchases							
Purchases						\$55,665	
Sale Costs							
Freight							
livestock	239	culls	@	\$4.00	/head	\$956	
	262	ewes	@	\$4.00	/head	\$1,046	
	950	prime lambs	@	\$4.00	/head	\$3,800	
wool		bales	@	\$10.00		\$380	
Stock selling charges			O			• • • • • • • • • • • • • • • • • • • •	
commissioninsurance			@	5.5%	gross	\$7,243	
yard fees	1189	head	@		/head	\$832	
levy-sheep		head	@	• • • •	/head	\$48	
levy-lambs		head	@		/head	\$1,425	
SA sheep industry lev		head	@		/head	\$416	
Wool selling charges	1103		w	ψ0.00	,	ψ-110	
brokerage/testing/insurance	re		@	\$0.22	ka	\$1,403	
Industry levy	~		_		gross	\$1,403 \$1,084	
Feed and Other Costs			@	2.0%	91000	φ1,004	
Water	1950	DSE's	@	\$2.50	/DSE	\$4,625	
Veh Fuel, R&M		DSE's	@				
•		DSE's DSE's	@	\$1.20 \$0.50		\$2,220 \$025	
Other			@			\$925	
hay		tonne	@	\$180.00 \$200.00		\$3,690 \$4,050	
grain		tonnes	@			\$4,950	
Insurance	\$177,938	value	@	\$2.00	/\$,000	\$356	
TOTAL VARIABLE COSTS GROSS MARGIN TOTAL						\$102,923 \$82,984	
GROSS MARGIN/hectare						\$82,984 \$269	
GROSS MARGIN/DSE						\$45	

COMMENTS

The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings,locks etc.

Super/workcover expenses relate only to shearing. DSE ratings are based on the maintenance feed requirements of a 2 year old, 50 Kg liveweight Merino Wether with a body condition score of 2.

No allowance has been made for pasture expenses such as seed, fertiliser and weed control. These need to be separately accounted for.

Prime Lamb Gross Margin - Cereal Zone (250 - 450mm)

PRODUCTION DATA

Stocking rate (DSE/Ha)	6.0
Total DSE's	1850
SHEEP GRAZING AREA	308
Number of ewes mated	1000
Ram percentage	2.5%
Age ewes bought (yrs)	1.5
Age ewes culled	5.5
Years rams kept	3
Flock death rate	3%
Average weaning rate	95%
% Lambs carried over	0%

Culling Rate (% from each group)						
Age group	Ewes	Wethers				
0.5	0%					
1.5	0%					
2.5	0%					
3.5	0%					
4.5	0%					
5.5	100%					
6.5	0%					

SALES	Number	Price/hd	Age	Total
c.f.a ewes	232	\$95.00	5.5	\$22,040
c.f.a rams	8	\$50.00	4.5	\$400
lambs	950	\$115.00	20 weeks	\$109,250
TOTAL	1189	110.68		\$131,690
PURCHASES	Number	Price/hd	Age yrs	Total
ewes	262	\$180	1.5	\$47,076
rams	9	\$1,000	1.5	\$8,588

STOCK HEALTH REQUIREMENTS

		Number of times				
	Number	Drench	DSE			
ewes	1000	1	1	1	1.8	
rams	25	2	1	0	2	
lambs	950	1	2	0		
TOTAL	1975	2000	2925	1000	1850	

SHEARING	Number	Wool cut kg/hd	price	Total \$
ewes	970	6.50	\$8.57	54021
crossbred rams	24	3.00	\$2.70	196
TOTAL	994	6378		54218

FEEDING

1 LLDING					
		Hay	Kgs Fed	No weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	cost (\$)
ewes	1000	\$180	2.5	8	\$3,600
rams	25	\$180	2.5	8	\$90
		Grain	Kgs Fed	No weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	cost (\$)
ewes	1000	\$200	3.0	8	\$4,800
rams	25	\$200	3.0	10	\$150

G.M. SENSITIVITY

GROSS MARGIN/DSE			Average V	Veaning Rate (%)		
		75%	85%	95%	105%	115%	125%
	\$90	\$25	\$29	\$33	\$37	\$41	\$45
	\$95	\$26	\$31	\$35	\$40	\$44	\$48
	\$100	\$28	\$33	\$38	\$42	\$47	\$51
	\$105	\$30	\$35	\$40	\$45	\$50	\$55
Average	\$110	\$32	\$37	\$42	\$48	\$53	\$58
Lamb Sale	\$115	\$34	\$39	\$45	\$50	\$56	\$61
Price (\$/hd)	\$120	\$36	\$42	\$47	\$53	\$59	\$64
	\$125	\$38	\$44	\$50	\$56	\$61	\$67
	\$130	\$40	\$46	\$52	\$58	\$64	\$71
	\$135	\$42	\$48	\$55	\$61	\$67	\$74
	\$140	\$44	\$50	\$57	\$64	\$70	\$77

Self Replacing Merino Flock - Cereal Zone (250 - 450mm)

Assumptions			
Ave Breeding Ewe Fibre Diameter	21	Total DSE's	2360
Number of breeding ewes	1000	Stocking rate (DSE/Ha)	6.0

							2017
INCOME							YOUR
						\$	ESTIMATE
Wool (kg greasy)	10614	Kg	[ave price	857	c/kg]	\$90,940	
Sales	813	animals	[ave price	\$113.27	per hd]	\$92,095	
GROSS INCOME						\$183,035	
VARIARI E COSTO							
VARIABLE COSTS							
Shearing Shearing	2250	ahaan	@	¢202.21	/100	\$6,599	
Ĭ		sheep	@	\$293.31			
(Federal Awards)	25	rams	@	\$586.62		\$147	
Shed labour	8	days	@	\$221.12	•	\$1,769	
Woolclasser	4.0	days	@	\$265.89	/day	\$1,064	
Superannuation (or	n ordinary wag	es only)	@	9.5%	wages	\$910	
Work Cover (include	s super + o'tin	ne etc)	@	4.0%	total	\$420	
Wool packs	62	packs	@	\$10.00	/pack	\$620	
Shed sundries		sheep	@	\$0.15	•	\$341	
Lice control		sheep	@	\$1.49		\$3,393	
Crutch & wig		•	_				
Cruich & wig	1400	•	@	\$85.06		\$1,191	
	25	rams	@	\$170.12	/100	\$43	
Marking							
Lamb marking	850	lambs	@	\$1.30	/head	\$1,105	
Pain relief	900	lambs	@	\$0.45	/head	\$405	
Ear tags	850	lambs	@	\$0.40	/head	\$340	
Animal Health							
drench		sheep	@	\$0.45		\$1,046	
vaccinate		sheep	@	\$0.37		\$1,172	
blowfly control		sheep	@	\$1.29	/head	\$1,871	
Sale and Purchase			_	* + = • • • •		* 4 • * • • • •	
Purchases		Merino rams	@	\$1,500.00		\$10,500	
Freight	813	sheep	@	\$4.00		\$3,252	
0111115		bales	@	\$10.00	/bale	\$620	
Stock selling charg			@	E E0/	~~~~	¢ E 06E	
commission/insura		head	@		gross /bood	\$5,065	
yard fees		head	@	\$0.70 \$0.20		\$569 \$78	
sheep tran levy lamb trans levy		head	@	\$1.50		\$638	
SA Sheep industr		head	@ @	\$0.35		\$285	
wool selling charge		neau	w.	Ψ0.33	/ileau	Ψ200	
brokerage/testing/i			@	\$0.22	/ka	\$2,335	
Industry levy			@		gross	\$1,819	
Feed and other Cos	ts		w	2.0 /0	5.000	ψ1,010	
Hand Feeding						\$9,675	
Insurance	\$260,527	value	@	\$2.00	/\$'000	\$521	
Water		DSE's	@	\$2.50		\$5,900	
Veh Fuel, R&M		DSE's	@	\$1.20		\$2,832	
Other	2360	DSE's	@	\$0.50	/DSE	\$1,180	
TOTAL VARIABLE	COSTS					\$67,702	
GROSS MARGIN TO						\$115,333	
GROSS MARGIN/he	ectare					\$293	
GROSS MARGIN /D	SE					\$49	
00141451150							

COMMENTS

The wool price is 90% the wool price for that micron. This takes into account the lower value of bellies, skirtings,locks etc. Super/workcover expenses relate only to shearing. DSE ratings are based on the maintenance feed requirements of a 2 year old, 50 Kg liveweight Merino Wether with a body condition score of 2.

No allowance has been made for pasture expenses such as seed, fertiliser and weed control. These need to be separately accounted for.

Self Replacing Merino Flock - Cereal Zone (250 - 450mm)

PRODUCTION DATA

6.0
2360
285
1000
2.5%
0.5
4
3%
85%
0%
0%

Culling Rate (% per each group)						
Age group	Ewes	Wethers				
0.5	0%	100%				
1.5	43%	0%				
2.5	5%	0%				
3.5	5%	0%				
4.5	5%	0%				
5.5	5%	0%				
6.5	100%	0%				

SALES	Number	Price/hd	Total
c.f.a ewes	204	\$95.00	\$19,380
c.f.a merino rams	6	\$50.00	\$300
ewe hoggets	178	\$180.00	\$32,040
wether lambs	425	\$95.00	\$40,375
TOTAL	813	\$113.27	\$92,095

STOCK HEALTH

	Number of times							
	Number	DSE	Drench	Vacc.	Blowfly			
ewes	1000	1.8	1	1	1			
ewe hoggets	425	1.2	1	1	1			
wether weaners	0	0.8	1	1	1			
merino lambs	850	0.0	1	2	0			
merino rams	25	2.0	2	1	1			
TOTAL	2300	2360	2325	3150	1450			
Total Value	\$260,527				_			

FEEDING

Feed	Number of	Fodder	kg/	animal	Total
	Animals	Cost (\$/T)			cost (\$)
Oats/barley	1000	\$200	24	/ewe	\$4,800
Hay	1000	\$180	20	/ewe	\$3,600
Lupins	425	\$300	10	/weaner	\$1,275
Total					\$9,675

SHEARING		Wool cut	Total	Yield	Total
	Number	kg/hd	Greasy kg	(%)	Clean kg
ewes	981	6.50	6378	68%	4337
ewe hoggets	419	5.50	2302	68%	1566
wether weaners	0	5.00	0	68%	0
lambs	850	2.00	1700	68%	1156
merino rams	25	9.50	234	68%	159
Adults	1424	6.63	8914		•
Total	2274		10614		7217

G.M. SENSITIVITY

GROSS MARGIN/DSE			Average V	Veaning Rate (%)		
		75%	85%	95%	105%	115%	125%
	\$90	\$25	\$29	\$33	\$37	\$41	\$45
	\$95	\$26	\$31	\$35	\$40	\$44	\$48
	\$100	\$28	\$33	\$38	\$42	\$47	\$51
	\$105	\$30	\$35	\$40	\$45	\$50	\$55
Average	\$110	\$32	\$37	\$42	\$48	\$53	\$58
Lamb Sale	\$115	\$34	\$39	\$45	\$50	\$56	\$61
Price (\$/hd)	\$120	\$36	\$42	\$47	\$53	\$59	\$64
	\$125	\$38	\$44	\$50	\$56	\$61	\$67
	\$130	\$40	\$46	\$52	\$58	\$64	\$71
	\$135	\$42	\$48	\$55	\$61	\$67	\$74
	\$140	\$44	\$50	\$57	\$64	\$70	\$77

Merino Wethers - Cereal Zone (250 - 450mm)

Assumptions:			
Average Wether Fibre Diameter	21	Gross Margin per Ha	\$193
Number of adult wethers	1000	Gross Margin per DSE	\$32
Total DSE's	1200	Gross Margin/Wether	\$39
Stocking rate (DSE/Ha)	6.0		

							2017
INCOME							YOUR
						\$	ESTIMATE
Wool (kg greasy)	7275	-	[ave price		c/kg]	\$62,332	
Sales	182	animals	[ave price	\$110.00	per hd]	\$20,060	
GROSS INCOME						\$82,392	
EXPENSES							
Shearing							
Shearing	970	sheep	@	\$293.31	/100	\$2,845	
Shed labour		days	@	\$221.12		\$884	
Woolclasser		days	@	\$265.89	,	\$532	
Superannuation (on		•	@		wages	\$354	
Work Cover (on wag		,	@		total	\$163	
Wool packs		packs	@	\$10.00	/pack	\$430	
Shed sundries	970	sheep	@	\$0.15	/head	\$146	
Lice control	970	sheep	@	\$1.49	/head	\$1,447	
Crutching	1000	sheep	@	\$85.06	/100	\$851	
Animal Health			-				
drench	1000	sheep	@	\$0.45	/head	\$450	
vaccinate	1000	sheep	@	\$0.37	/head	\$372	
blowfly control	1000	sheep	@	\$1.29		\$1,290	
Other Expenses	0	sheep	@	\$0.00	/head	\$0	
Stock Purchases							
Purchases	212	wethers	@	\$95.00	/head	\$20,140	
Sale costs and other	r						
Freight							
livestock	395		@	\$4.00	/head	\$1,580	
wool	43	bales	@	\$10.00	/bale	\$430	
Stock selling charge			O	,		,	
commission/insurar			@	5.5%	gross	\$1,103	
		head		\$0.70		\$127	
yard fees			@	•		•	
transaction levy		head	@	\$0.20		\$36	
SA sheep industr	182	head	@	\$0.35	/head	\$64	
Wool selling char	ges						
brokerage/testing/ii	nsurance		@	\$0.22	/kg	\$1,601	
Industry levy			@	2.0%	gross	\$1,247	
Other Expenses							
Hand Feeding						\$2,700	
Insurance	102500	value	@	\$2.00	/\$'000	\$205	
Water		DSE's	_	\$2.50		\$3,000	
			@				
Veh Fuel, R&M		DSE's	@	\$1.00		\$1,200	
Other Expenses		DSE's	@	\$0.50	/DSE	\$600	
TOTAL VARIABLE COSTS						\$43,798	
GROSS MARGIN						\$38,595	
GROSS MARGIN/he	ctare					\$193	
GROSS MARGIN/DS	SE					\$32	
COMMENTS							

COMMENTS

The wool price is 90% the wool price for that micron. This takes into account the lower value of bellies, skirtings, locks etc. Super/workcover expenses relate only to shearing. DSE ratings are based on the maintenance feed requirements of a 2 year old, 50 kg liveweight Merino wether with a body condition score of 2. No allowance has been made for pasture expenses such as seed, fertiliser and weed control. These need to be separately accounted for.

Merino Wethers - Cereal Zone (250 - 450mm)

PRODUCTION DATA

Stocking rate (DSE/Ha)	6.0
Total DSE's	1200
SHEEP GRAZING AREA	200
Number of wethers	1000
Flock death rate	3%
Age wethers bought (yrs)	0.5
Age wethers culled	5.5

Culling R	Stock		
Age group	Ewes	Ewes Wethers	
0.5		0%	212
1.5		0%	206
2.5		0%	200
3.5		0%	194
4.5		0%	188
5.5		100%	

SALES	Number	Price/hd	Age	Total
c.f.a wethers	182	\$110.00	5.5	\$20,020
TOTAL	182			\$20,020
PURCHASES	Number	Price/hd	Age yrs	Total
wethers	212	\$95	0.5	\$20,175

STOCK VALUE AND D.S.E REQUIREMENT

wethers TOTAL

	Value	Ave Live	DSE
Number	\$/head	Wt (Kgs)	rating
1000	\$103	55	1.2
1000			

STOCK HEALTH REQUIREMENTS

		DSE			
	Number	Drench	Vacc.	Blowfly	rating
wethers	1000	1	1	1	1.2
TOTAL	1000	1000	1000	1000	1200

SHEARING		Wool cut	Total	Yield	Total
	Number	kg/hd	Greasy kg	(%)	Clean kg
wethers	970	7.50	7275	68%	4947
TOTAL	970		7275		4947

HAND FEEDING

Oats/barley Hay Lupins Total

kg fed	/animal	\$/tonne	Total
0	kg/wether	200	\$0
15	kg/wether	180	\$2,700
	kg/wether	300	\$0
			\$2,700

Prime Lamb Gross Margin - Pastoral Zone (<250mm)

Assumptions (Lambs sold to specia	list finisher)		
Ave Breeding Ewe Fibre Diameter	22	Total DSE's	1858
Number of breeding ewes	1000	Stocking rate (DSE/Ha)	0.14
Merino ewes - Terminal meat sire			

INCOME							YOUR
						<u>\$</u>	ESTIMATE
Wool (kg greasy)	5771	Kg	[ave price	741	c/kg]	\$42,771	
Sales	1020	animals	[ave price	\$96.77	per hd]	\$98,662	
GROSS INCOME						\$141,433	
VADIADI E 000T0							
VARIABLE COSTS							
Shearing Shearing	050	sheep	@	\$293.31	/100	\$2.786	
(Federal awards)		rams	@ @	\$586.62		\$141	
Shed labour		days	@	\$221.12		\$1,106	
Woolclasser		days	@	\$265.89	•	\$665	
Superannuation (on		•	@		wages	\$446	
Work Cover (on wage			@		total	\$188	
Wool packs		packs	@	\$10.00		\$340	
Shed sundries		sheep	@	\$0.15	•	\$146	
Lice control		sheep	@	\$1.49		\$1,453	
Crutch & Wig		lambs	@	\$85.06		\$680	
Crutch & Wig	998		@	\$85.06		\$849	
Marking	330	auuiis	w	ψ00.00	7100	Ψ049	
Lamb marking	800	lambs	@	\$1.00	/head	\$800	
Ear tags		lambs	@	\$0.40		\$320	
Animal Health	000	iaiiibs	w	φ0.40	/ileau	Ψ320	
drench	0	sheep	@	\$0.45	/boad	\$0	
vaccinate		sheep	_	\$0.45		\$679	
		•	@	\$1.29			
blowfly control	1000	sheep	@	Φ1.29	meau	\$1,290	
Stock purchases Purchases						¢55.050	
Sale Costs						\$55,258	
Freight livestock	220	culls		\$7.00	/bood	¢1 540	
livestock		ewes	@			\$1,540 \$1,897	
			@	\$7.00		\$1,887	
weel	800	prime lambs bales	_	\$7.00		\$5,600	
wool		baies	@	\$12.00	/baie	\$408	
Stock selling charge				F F0/		CE 400	
commission/insuran		LI	@		gross	\$5,426	
yard fees		head	@	\$0.70		\$714	
levy-sheep		head	@	\$0.20		\$44	
levy-lambs	800	head	@	\$1.50		\$1,200	
SA sheep industr		head	@	\$0.35	леаа	\$357	
wool selling charges	S		6	0.007		0055	
Industry levy			@		gross	\$855	
brokerage/testing/in			@	\$0.22	/kg	\$1,270	
Feed and Other Cos		DOEL	_	A . = -	/DOF	00 700	
Water		DSE's	@	\$1.50		\$2,786	
Veh Fuel, R&M		DSE's	@	\$1.70		\$3,158	
Other		DSE's	@	\$0.50		\$929	
hay		tonne	@	\$180.00		\$0	
grain		tonnes	@	\$200.00		\$0	
Insurance	\$165,563	value	@	\$2.00	/\$'000	\$331	
TOTAL VARIABLE C						\$93,652	
GROSS MARGIN TO						\$47,781 \$3.60	
GROSS MARGIN/hea GROSS MARGIN/DS						\$3.60 \$26	

COMMENTS

The wool price is 90% the wool price for that micron. This takes into account the lower value of bellies, skirtings,locks etc. Super/workcover expenses relate only to shearing. DSE ratings are based on the maintenance feed requirements of a 2 year old, 50 Kg liveweight Merino Wether with a body conditionscore of 2.

Prime Lamb Gross Margin - Pastoral Zone (<250mm)

PRODUCTION DATA

I NODGOTION DATA	
Stocking rate (DSE/Ha)	6.0
Total DSE's	1850
SHEEP GRAZING AREA	308
Number of ewes mated	1000
Ram percentage	2.5%
Age ewes bought (yrs)	1.5
Age ewes culled	5.5
Years rams kept	3
Flock death rate	3%
Average weaning rate	95%
% Lambs carried over	0%

Culling Rate (% from each group)						
Age group	Ewes	Wethers				
0.5	0%					
1.5	0%					
2.5	0%					
3.5	0%					
4.5	0%					
5.5	100%					
6.5	0%					

SALES	Number	Price/hd	Age	Total
c.f.a ewes	232	\$95.00	5.5	\$22,040
c.f.a rams	8	\$50.00	4.5	\$400
lambs	950	\$115.00	20 weeks	\$109,250
TOTAL	1189	110.68		\$131,690
PURCHASES	Number	Price/hd	Age yrs	Total
ewes	262	\$180	1.5	\$47,076
rams	9	\$1,000	1.5	\$8,588

STOCK HEALTH REQUIREMENTS

	Number	Drench	Vacc.	Blowfly	DSE
ewes	1000	1	1	1	1.8
rams	25	2	1	0	2
lambs	950	1	2	0	
TOTAL	1975	2000	2925	1000	1850

SHEARING		Wool cut	price	Total
	Number	kg/hd		\$
ewes	970	6.50	\$8.57	54021
crossbred rams	24	3.00	\$2.70	196
TOTAL	994	6378		54218

FEEDING

I LLDING					
		Hay	Kgs Fed	No weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	cost (\$)
ewes	1000	\$180	2.5	8	\$3,600
rams	25	\$180	2.5	8	\$90
		Grain	Kgs Fed	No weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	cost (\$)
ewes	1000	\$200	3.0	8	\$4,800
rams	25	\$200	3.0	10	\$150

G.M. SENSITIVITY

GROSS MARGIN/DSE			Average V	/eaning Rate (%)		
		75%	85%	95%	105%	115%	125%
	\$90	\$25	\$29	\$33	\$37	\$41	\$45
	\$95	\$26	\$31	\$35	\$40	\$44	\$48
	\$100	\$28	\$33	\$38	\$42	\$47	\$51
	\$105	\$30	\$35	\$40	\$45	\$50	\$55
Average	\$110	\$32	\$37	\$42	\$48	\$53	\$58
Lamb Sale	\$115	\$34	\$39	\$45	\$50	\$56	\$61
Price (\$/hd)	\$120	\$36	\$42	\$47	\$53	\$59	\$64
	\$125	\$38	\$44	\$50	\$56	\$61	\$67
	\$130	\$40	\$46	\$52	\$58	\$64	\$71
	\$135	\$42	\$48	\$55	\$61	\$67	\$74
	\$140	\$44	\$50	\$57	\$64	\$70	\$77

Self Replacing Merino Flock - Pastoral Zone (<250mm)

Assumptions			
Ave Breeding Ewe Fibre Diameter	22	Total DSE's	2660
Number of breeding ewes	1000	Stocking rate (DSE/Ha)	0.14

							2017
INCOME							YOUR
						\$	ESTIMATE
Wool (kg greasy)	11580	-	[ave price		c/kg]	\$86,504	
Sales	717	animals	[ave price	\$104.38	per hd]	\$74,800	
GROSS INCOME						\$161,304	
VARIABLE COSTS							
Shearing							
Shearing	2550	sheep	@	\$293.31	/100	\$7,479	
(Federal Awards)	29	rams	@	\$586.62		\$170	
Shed labour			_	\$221.12		\$2,211	
		days	@		•		
Woolclasser		days	@	\$265.89	-	\$1,329	
Superannuation (on			@		wages	\$1,063	
Work Cover (includes	s super + o'tin	ne etc)	@	4.0%	total	\$490	
Wool packs	68	packs	@	\$10.00	/pack	\$680	
Shed sundries	2579	sheep	@	\$0.15	/head	\$387	
Lice control	2579	sheep	@	\$1.49	/head	\$3,848	
Crutch & wig	1750	sheep	@	\$85.06	/100	\$1,489	
Marking							
Lamb marking	800	lambs	@	\$1.30	/head	\$1,040	
Pain relief	900	lambs	@	\$0.45	/head	\$405	
Ear tags	800	lambs	@	\$0.40	/head	\$320	
Animal Health							
drench	0	sheep	@	\$0.45	/head	\$0	
vaccinate	3030	sheep	@	\$0.37	/head	\$1,127	
blowfly control	1000	sheep	@	\$1.29	/head	\$1,290	
other	0	sheep	@	\$0.00	/head	\$0	
Sale and Purchase (
Purchases	8	Merino rams	_	\$1,200.00		\$9,600	
Freight	717	sheep	@	\$7.00		\$5,019	
0, 1, 11; 1	68	bales	@	\$12.00	/bale	\$816	
Stock selling charge				E E0/		CA 111	
commission/insurar yard fees		head	@	5.5% \$0.70	gross /bood	\$4,114 \$502	
transaction levy		head	@	\$0.70		\$143	
SA sheep industr		head	@ @	\$0.20 \$0.35		\$251	
Wool selling charge		noau	w	ψ0.55	, ilouu	ΨΖΟΤ	
brokerage/testing/ir			@	\$0.22	/ka	\$2,548	
Industry levy			@		gross	\$1,730	
Feed and other Cos	ts		<u> </u>	- 1-	•	, ,	
Hand Feeding						\$0	
Insurance	\$274,529	value	@	\$2.00	/\$'000	\$549	
Water	2660	DSE's	@	\$1.50	/DSE	\$3,990	
Veh Fuel, R&M	2660	DSE's	@	\$1.70		\$4,522	
Other		DSE's	@	\$0.50	/DSE	\$1,330	
TOTAL VARIABLE O						\$58,443	
GROSS MARGIN TO						\$102,862	
GROSS MARGIN/he						\$5.41	
GROSS MARGIN /DS	SE					\$39	

COMMENTS

The wool price is 90% the wool price for that micron. This takes into account the lower value of bellies, skirtings,locks etc. Super/workcover expenses relate only to shearing. DSE ratings are based on the maintenance feed requirements of a 2 year old, 50 Kg liveweight Merino Wether with a body condition score of 2.

Self Replacing Merino Flock - Pastoral Zone (<250mm)

PRODUCTION DATA

PRODUCTION DATA	
Stocking rate (DSE/Ha)	0.14
Total DSE's	2660
SHEEP GRAZING AREA	19000
Number of ewes mated	1000
Ram percentage	3.0%
Age wethers sold (yrs)	1
Years rams kept	4
Flock death rate	5%
Average weaning rate	80%
Prime lamb weaning %	0%
% mated for prime Ims	0%

Culling Rate (% per each group)							
Age group Ewes Wethers							
0.5	0%	0%					
1.5	42%	100%					
2.5	0%	0%					
3.5	0%	0%					
4.5	0%	0%					
5.5	0%	0%					
6.5	100%	0%					

SALES	Number	Price/hd	Total
c.f.a ewes	171	\$85.00	\$14,535
c.f.a merino rams	7	\$45.00	\$315
ewe hoggets	159	\$150.00	\$23,850
wether hoggets	380	\$95.00	\$36,100
TOTAL	717	\$104.38	\$74,800

STOCK HEALTH

	Number of times							
	Number	Number DSE Drench Vacc. Je						
ewes	1000	1.8	0	1	1			
ewe hoggets	400	1.2	0	1	0			
wether weaners	400	0.8	0	0	0			
merino lambs	800	0.0	0	2	0			
merino rams	30	2.0	0	1	0			
TOTAL	2630	2660	0	3030	1000			
Total Value	\$274,529		•	•	•			

FEEDING

FEEDING					
Feed	Number of	Hay	kg/	animal	Total
	Animals	Cost (\$/T)	fed		cost (\$)
Oats/barley	1000	\$200	0.0	/ewe	\$0
Hay	1000	\$180	0.0	/ewe	\$0
Lupins	800	\$300	0.0	/weaner	\$0
Total					\$0

SHEARING		Wool cut	Total	Yield	Total
	Number	kg/hd	Greasy kg	(%)	Clean kg
ewes	970	6.00	5817	63%	3665
ewe hoggets	390	5.00	1950	63%	1229
wether weaners	390	5.00	1950	63%	1229
lambs	800	2.00	1600	63%	1008
merino rams	29	9.00	263	63%	166
Adults	1779	6.25	9980		
Total	2579		11580		7296

FLOCK STRUCTURE This table shows the number of merino sheep in each age group at mating

Class of		Age Group							
Sheep	0.5 y.o.	1.5 y.o.	2.5 y.o.	3.5 y.o.	4.5 y.o.	5.5 y.o.	6.5 y.o.		
Ewes	400	221	210	199	190	180	0		
Wethers	400	0	0	0	0	0	0		
Rams		8	8	7	7	0	0		

SENSITIVITY ANALYSIS

GROSS MARGIN/F	· A	Average Greasy Wool Price (c/Kg)						
		600	650	700	747	800	850	
	\$80	\$26	\$28	\$30	\$32	\$35	\$37	
	\$85	\$27	\$30	\$32	\$34	\$36	\$38	
	\$90	\$29	\$31	\$33	\$35	\$37	\$39	
	\$95	\$30	\$32	\$34	\$36	\$39	\$41	
Average \$100		\$31	\$33	\$36	\$38	\$40	\$42	
Sale	\$104	\$32	\$34	\$37	\$39	\$41	\$43	
Price (\$/hd)	\$110	\$34	\$36	\$38	\$40	\$42	\$44	
	\$115	\$35	\$37	\$39	\$41	\$44	\$46	
	\$120	\$36	\$39	\$41	\$43	\$45	\$47	
	\$125	\$38	\$40	\$42	\$44	\$46	\$48	
	\$130	\$39	\$41	\$43	\$45	\$47	\$50	

Merino Wethers - Pastoral Zone (<250mm)

Assumptions:			
Average Wether Fibre Diameter	22	Gross Margin per Ha	\$3.1
Number of adult wethers	1000	Gross Margin per DSE	\$22
Total DSE's	1200	Gross Margin/Wether	\$27
Stocking rate (DSE/Ha)	0.14		

							2017
INCOME							YOUR
						\$	ESTIMATE
Wool (kg greasy)	6720	-	[ave price		c/kg]	\$50,198	
Sales	226	animals	[ave price	\$105.00	per hd]	\$23,679	
GROSS INCOME						\$73,877	
EXPENSES							
Shearing							
Shearing	960	sheep	@	\$293.31	/100	\$2,816	
Shed labour	4	days	@	\$221.12	/day	\$884	
Woolclasser	2	days	@	\$265.89	/day	\$532	
Superannuation (on o	ordinary wag	ges only)	@	9.5%	wages	\$402	
Work Cover (on wage	s+super+o'	time etc)	@	4.0%	total	\$164	
Wool packs	40	packs	@	\$10.00	/pack	\$400	
Shed sundries	960	sheep	@	\$0.15	/head	\$144	
Lice control	960	sheep	@	\$1.49		\$1,432	
Crutching	1000	sheep	@	\$85.06	/100	\$851	
Animal Health							
drench		sheep	@	\$0.45		\$0	
vaccinate		sheep	@	\$0.37		\$372	
blowfly control	1000		@	\$1.29		\$1,290	
Other Expenses	0	sheep	@	\$0.00	/head	\$0	
Stock Purchases							
Purchases	266	wethers	@	\$95.00	/head	\$25,270	
Sale costs and other	•						
Freight							
livestock	491		@	\$7.00	/head	\$3,437	
wool	40	bales	@	\$12.00	/bale	\$480	
Stock selling charge	9		•	*		7	
commission/insuran			@	E E0/	gross	\$1,302	
		ll	@		_		
yard fees		head	@	\$0.70		\$158	
transaction levy	226	head	@	\$0.20	/head	\$45	
SA sheep industry	226	head	@	\$0.35	/head	\$79	
Wool selling charg	es						
brokerage/testing/in	surance		@	\$0.22	/kg	\$1,478	
Industry levy			@	2.0%	gross	\$1,004	
Other Expenses			<u> </u>	- 1-	J	, , , , , ,	
Hand Feeding						\$0	
Insurance	100000	value	@	\$2.00	/\$'000	\$200	
Water		DSE's	@	\$1.50		\$1,800	
Veh Fuel. R&M		DSE's		\$1.50		\$1,800	
,		DSE's	@				
Other Expenses		DOE.S	@	\$0.50	IDSE	\$600	
TOTAL VARIABLE C	0313					\$46,941	
GROSS MARGIN						\$26,936	
GROSS MARGIN/hed						\$3.14	
GROSS MARGIN/DS	=					\$22	

COMMENTS

The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings,locks etc. Super/workcover expenses relate only to shearing. DSE ratings are based on the maintenance feed requirements of a 2 year old, 50 Kg liveweight Merino Wether with a body condition score of 2.

Merino Wethers - Pastoral Zone (<250mm)

PRODUCTION DATA

Stocking rate (DSE/Ha)	0.14
Total DSE's	1200
SHEEP GRAZING AREA	8571
Number of wethers	1000
Flock death rate	4%
Age wethers bought (yrs)	1.5
Age wethers culled	5.5

Culling R	Stock		
Age group	Ewes	Wethers	No's
0.5		0%	0
1.5		0%	266
2.5		0%	255
3.5		0%	245
4.5		0%	235
5.5		100%	/ \

SALES	Number	Price/hd	Age	Total
c.f.a wethers	226	\$105.00	5.5	\$23,730
TOTAL	226			\$23,730
PURCHASES	Number	Price/hd	Age yrs	Total
wethers	266	\$95	1.5	\$25,223

STOCK VALUE AND D.S.E REQUIREMENT

wethers TOTAL

	Value	Ave Live	DSE
Number	\$/head	Wt (Kgs)	rating
1000	\$100	55	1.20
1000			

STOCK HEALTH REQUIREMENTS

		DSE			
	Number	rating			
wethers	1000	0	1	1	1.2
TOTAL	1000	0	1000	1000	1200

SHEARING		Wool cut	Total	Yield	Total
	Number	kg/hd	Greasy kg	(%)	Clean kg
wethers	960	7.00	6720	63%	4234
TOTAL	960		6720		4234

HAND FEEDING

Oats/barley Hay Lupins Total

kg fed	/animal	\$/tonne	Total
0	kg/wether	200	\$0
0	kg/wether	180	\$0
0	kg/wether	300	\$0
			\$0

SENSITIVITY TABLE

GROSS MARGIN/DSE		Average Greasy Wool Price (c/Kg)					
		600	650	700	747	800	850
	\$80	\$10	\$13	\$15	\$18	\$21	\$24
	\$85	\$11	\$14	\$16	\$19	\$22	\$25
	\$90	\$12	\$14	\$17	\$20	\$23	\$25
	\$95	\$13	\$15	\$18	\$21	\$24	\$26
Average	\$100	\$13	\$16	\$19	\$22	\$24	\$27
Sale	\$105	\$14	\$17	\$20	\$22	\$25	\$28
Price (\$/hd)	\$110	\$15	\$18	\$21	\$23	\$26	\$29
	\$115	\$16	\$19	\$22	\$24	\$27	\$30
	\$120	\$17	\$20	\$23	\$25	\$28	\$3
	\$125	\$18	\$21	\$23	\$26	\$29	\$32
	\$130	\$19	\$22	\$24	\$27	\$30	\$33

Cleanskin Sheep - Cereal Zone (250 - 450mm)

Assumptions			
		Total DSE's	2570
Number of breeding ewes	1000	Stocking rate (DSE/Ha)	6.0

							2017
INCOME						Φ.	YOUR
						\$ \$0	ESTIMATE
Sales	1158	animals	[ave price	\$120.80	ner hdl	\$139,860	
GROSS INCOME	1100	ariiriaio	[ave price	Ψ120.00	porriaj	\$139,860	
						,	
VARIABLE COSTS							
						\$0	
Marking			_				
Lamb marking		lambs	@	•	/head	\$1,200	
Ear tags	1200	lambs	@	\$0.40	/head	\$480	
Animal Health							
drench	2850	sheep	@	\$0.45	/head	\$1,283	
vaccinate	4025	sheep	@	\$0.37	/head	\$1,497	
blowfly control	0	sheep	@	\$1.29	/head	\$0	
Lice control	0	sheep	@	\$1.49	/head	\$0	
Sale and Purchase		·					
Purchases	7	rams	@	\$1,100.00	/head	\$7,700	
Freight	204	ewes	@	\$4.00	/head	\$816	
	6	rams	@	\$4.00	/head	\$24	
	348		@	,	/head	\$1,392	
		lambs	@	,	/head	\$2,400	
	000	iaiiibs	w	Ψ4.00	/ricau	Ψ2,400	
Stock selling char	200						
commission/insura	-		@	5 5%	gross	\$7,692	
vard fees		head	@		/head	\$811	
sheep tran levy		head	@		/head	\$112	
lamb trans levy	600	head	@		/head	\$900	
SA Sheep industr	1158	head	@	\$0.35	/head	\$405	
						\$0	
						\$0	
Feed and other Cos	sts					040.000	
Hand Feeding	0044 050	value	6	<u></u>	(# 1000	\$10,200	
Insurance Water	\$341,258	value DSE's	@	\$2.00 \$2.50	/\$'000 /DSE	\$683 \$6.425	
vvater Veh Fuel, R&M		DSE's	@ @	\$2.50 \$0.80		\$6,425 \$2,056	
Other		DSE's	@	\$0.50		\$1,285	
TOTAL VARIABLE		DOLO	w	ψ0.50	,DOL	\$47,360	
GROSS MARGIN TO						\$92,500	
GROSS MARGIN/h						\$216	
GROSS MARGIN /						\$36	

COMMENTS

Assumes flock is fully wool shedding and therefore no shearing, crutching or lice control costs are included. Assumes only one lambing per year.

No allowance has been made for pasture expenses such as seed, fertiliser and weed control. These need to be separately accounted for.

Cleanskin Sheep - Cereal Zone (250 - 450mm)

PRODUCTION DATA

I ROBOUTION BATA	
Stocking rate (DSE/Ha)	6.0
Total DSE's	2570
SHEEP GRAZING AREA	428
Number of ewes mated	1000
Ram percentage	2.5%
Age wethers sold (yrs)	0.5
Years rams kept	4
Flock death rate	3%
Average weaning rate	120%

Culling Rate (% per each group)					
Age group	Ewes	Wethers			
0.5	0%	100%			
1.5	60%	0%			
2.5	5%	0%			
3.5	5%	0%			
4.5	5%	0%			
5.5	5%	0%			
6.5	100%	0%			

SALES	Number	Price/hd	Total
c.f.a ewes c.f.a rams ewe hoggets	204 6 348	\$90.00 \$50.00 \$150.00	\$18,360 \$300 \$52,200
wether lambs	600	\$115.00	\$69,000
TOTAL	1158	\$120.80	\$139,860

STOCK HEALTH

	Number of times										
	Number	DSE	Drench	Vacc.	Blowfly	Lice					
ewes	1000	1.8	1	1	0	0					
ewe hoggets	600	1.2	1	1	0	0					
wether weaners	0	0.8	1	1	0	0					
lambs	1200	0.0	1	2	0	0					
rams	25	2.0	2	1	0	0					
TOTAL	2825	2570	2850	4025	0	0					
Total Value	\$341,258										

FEEDING	Number of	Fodder	kg/	animal	Total
Feed	Animals	Cost (\$/T)			cost (\$)
Oats/barley	1000	\$200	24	/ewe	\$4,800
Hay	1000	\$180	20	/ewe	\$3,600
Lupins	600	\$300	10	/weaner	\$1,800
Total					\$10,200

FLOCK STRUCTURE This table shows the number of sheep in each age group at mating

	This table choire and named of choop in each age group at mating										
Class of		Age Group									
Sheep	0.5 y.o.	1.5 y.o.	2.5 y.o.	3.5 y.o.	4.5 y.o.	5.5 y.o.	6.5 y.o.				
Ewes	600	234	216	199	183	169	0				
Wethers	0	0	0	0	0	0	0				
Rams		7	6	6	6	0	0				

SENSITIVITY ANALYSIS

GROSS MARGIN/I	DSE		Average We	eaning Percenta	age		
		100	110	120	130	140	150
	\$95	\$23	\$28	\$32	\$36	\$40	\$44
	\$100	\$24	\$29	\$33	\$37	\$41	\$45
	\$105	\$25	\$30	\$34	\$38	\$42	\$47
_	\$110	\$26	\$31	\$35	\$39	\$44	\$48
	\$115	\$27	\$32	\$36	\$40	\$45	\$49
Sale Price	\$120	\$28	\$33	\$37	\$42	\$46	\$51
Lambs	\$125	\$29	\$34	\$38	\$43	\$48	\$52
(\$/hd)	\$130	\$30	\$35	\$39	\$44	\$49	\$54
	\$135	\$31	\$36	\$40	\$45	\$50	\$55
	\$140	\$32	\$37	\$42	\$46	\$51	\$56
	\$145	\$33	\$38	\$43	\$48	\$53	\$58

Beef Cattle - High Rainfall

Assumptions:	•	(Breeding young cattle for local trade, grass	fattened)		•	•
Breeding Cow	15	DSE	100	Cow breeding here	1	
Calf Weaning	90%		13	cows replaced per	year	
Herd Deaths	3%		3%	Bulls bought for		\$5,000
Cows c.f.a	10	years old		sold for		\$1,500
Uses	13	heifers as replacements		after	3	years
Carry over calf	8	DSE	40%	carryover to heavier weights		
Weaned @	8	months	6	months extra carry	over	
Heifers mated @	15	months	1888	Herd DSE		
Stocking rate	10	DSE/ha	D	rench cows	2	X
Area required	189	hectares	Dre	ench calves	1	X
Feeds	35	kg/DSE hay equivalent supplement				

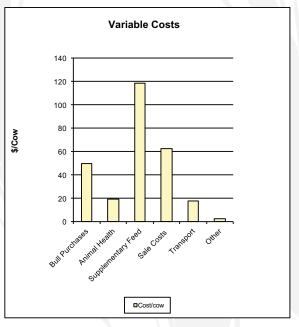
									2017
INCOME									YOUR
									ESTIMAT
Stock sales	54	vealers @		280	kg liveweight@	\$3.80	/kg L/W	\$57,456	
	22	yearlings		420	kg liveweight@	\$3.80	/kg L/W	\$35,112	
Culls	10	Cows @		550	kg liveweight@	\$2.30	/kg L/W	\$12,127	
	1	bull@					-	\$1,500	
GROSS INCOME								\$106,195	
/ARIABLE COSTS									
Bull Purchases						^ =		^-	
No. of bulls				1		\$5,000.00	total	\$5,000	
Veterinary & Medic									
Drench - cows 2x ca	alves 1	<		290	@		/head	\$899	
Ear Tags NLIS				90	@	\$4.75	U	\$428	
Lice Treatments				100	@	\$3.10	/dose	\$310	
Vaccine (5 in 1)				180	@	\$1.82	/dose	\$328	
Supplementary Fee	ed								
Hay		66	tonne		@	\$180.00	/tonne	\$11,880	
Grain		0.00	t/head		@	\$200.00	/tonne	\$0	
Blocks/ Mineral Mix				100	@	\$5.00	/head	\$500	
Sale costs and other	er								
Insurance			\$	119,000	@	\$2.00	/\$1000	\$238	
Water		1888	dse's		@	\$1.50		\$2,832	
Veh Fuel, R&M		1888	dse's		@	\$1.00		\$1,888	
Other		1888	dse's		@	\$0.50		\$944	
Transport:	Lvstk	87	head		@	\$20.00	/head	\$1,732	
Commission					@	5.5%		\$5,841	
Levies					@	\$5.00	/head	\$433	
TOTAL VARIABLE C	OSTS					*		\$33,252	
GROSS MARGIN TO								\$72,943	
GROSS MARGIN PER	R COW							\$729	
GROSS MARGIN/DSI	Ξ							\$38.63	
GROSS MARGIN/hec	tare							\$386.34	

Livestock weight will vary between cattle breed, feed type and age
No allowance has been made for pasture expenses such as seed, fertiliser and weed control. These need to be separately accounted for.

Beef Cattle - High Rainfall

GROSS MAR	GIN SEN	ISITIVITY		PER COV	V			
			\$/kg Live	kg Liveweight(yearlings/steers				
		\$3.00	\$3.50	\$3.80	\$4.00	\$4.50		
	60%	\$232	\$304	\$346	\$375	\$446		
	65%	\$283	\$362	\$410	\$442	\$522		
	70%	\$333	\$421	\$474	\$509	\$598		
	75%	\$383	\$480	\$538	\$577	\$673		
Weaning	80%	\$434	\$539	\$602	\$644	\$749		
%	85%	\$484	\$598	\$666	\$711	\$824		
	90%	\$535	\$656	\$729	\$778	\$900		
	95%	\$585	\$715	\$793	\$845	\$976		
	100%	\$635	\$774	\$857	\$913	\$1.051		

		I LIX DOL									
		\$/kg Liveweight(yearlings/steers)									
		\$2.00	\$2.50	\$3.80	\$3.50	\$4.00					
	60%	\$5	\$9	\$18	\$16	\$20					
	65%	\$7	\$11	\$22	\$19	\$23					
	70%	\$8	\$13	\$25	\$22	\$27					
	75%	\$10	\$15	\$28	\$25	\$31					
Weaning	80%	\$12	\$17	\$32	\$29	\$34					
%	85%	\$14	\$20	\$35	\$32	\$38					
	90%	\$15	\$22	\$39	\$35	\$41					
	95%	\$17	\$24	\$42	\$38	\$45					
	100%	\$19	\$26	\$45	\$41	\$48					



Beef Cattle - Cereal Zone

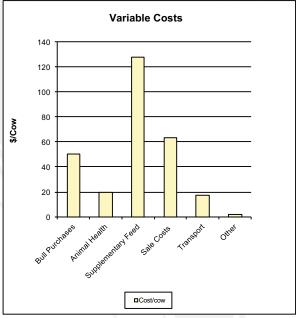
Assumptions:		(Breeding young cattle for local trade, gr	rass fattened)			
Breeding Cow	14.5	DSE	100	Cow breeding herd		
Calf Weaning	90%		13	cows replaced per ye	ar	
Herd Deaths	3%		3%	Bulls bought for		\$5,00
Cows c.f.a	10	years old		sold for		\$1,50
Uses	13	heifers as replacements		after	3	years
Carry over calf	8	DSE	50%	carryover to heavier v	veigh	nts
Weaned @	8	months	6	months extra carry or	⁄er	
Heifers mated @	15	months	1960	Herd DSE		
Stocking rate	5.00	DSE/ha	D	rench cows	2	X
Area required	392	hectares	Dre	ench calves	1	X
Feeds	35	kg/DSE hay equivalent supplement				

NCOME								2017 YOUR ESTIMAT
Stock sales	45	vealers @	270	kg liveweight @	\$3.80	/kg L/W	\$46,170	
	31	_	400			/kg L/W	\$47,120	
Culls	10	Cows @	550			/kg L/W	\$12,127	
		bull@				· ·	\$1,500	
GROSS INCOME							\$106,917	
ARIABLE COSTS								
Bull Purchases								
No. of bulls			1	@	\$5,000	total	\$5,000	
Veterinary & Medicir	nes			J	•			
Drench - cows 2x cal			290	@	\$3.10	/head	\$899	
Ear Tags			90	_	\$4.75	/tag	\$428	
Lice Treatments			100	_	\$3.10	/dose	\$310	
Vaccine (5 in 1)			180	_	\$1.82	/dose	\$328	
Supplementary Feed	t							
Hay		68	tonne	@	\$180.00	/tonne	\$12,240	
Grain		0.00	t/head	@	\$200.00	/tonne	\$0	
Blocks/ Mineral Mix			100	@	\$5.00	/head	\$500	
Sale costs and other	r							
Insurance			\$119,000	@	\$2.00	/\$1000	\$238	
Water		1960	dse's	@	\$2.50		\$4,900	
Veh Fuel, R&M		1960	dse's	@	\$1.00		\$1,960	
Other		1960	dse's	@	\$0.50		\$980	
Transport:	Lvstk	87	head	@	\$20.00	/head	\$1,732	
Commission				@	5.5%		\$5,880	
Levies				@		/head	\$433	
TOTAL VARIABLE CO	STS						\$35,827	
GROSS MARGIN TOTA	AL						\$71,090	
GROSS MARGIN PER	COW						\$711	
GROSS MARGIN/DSE							\$36.27	
GROSS MARGIN/hecta	are						\$181.35	

Beef Cattle - Cereal Zone

GROSS MAR	GIN SEN	SITIVITY		PER COV	٧	
			\$/kg Live	weight(ye	arlings/st	eers)
		\$3.00	\$3.50	\$3.80	\$4.00	\$4.50
	60%	\$213	\$285	\$329	\$358	\$430
	65%	\$263	\$344	\$393	\$425	\$506
	70%	\$313	\$403	\$456	\$492	\$581
	75%	\$364	\$461	\$520	\$559	\$657
Weaning	80%	\$414	\$520	\$584	\$626	\$732
%	85%	\$464	\$579	\$647	\$693	\$807
	90%	\$514	\$637	\$711	\$760	\$883
	95%	\$565	\$696	\$775	\$827	\$958
	100%	\$615	\$754	\$838	\$894	\$1,033
				PER DSE		

		\$/kg Liveweight(yearlings/steers)							
	\$3.00 \$3.50 \$3.80 \$4.00 \$4.50								
	60%	\$11	\$15	\$17	\$18	\$22			
	65%	\$13	\$18	\$20	\$22	\$26			
	70%	\$16	\$21	\$23	\$25	\$30			
	75%	\$19	\$24	\$27	\$29	\$34			
Weaning	80%	\$21	\$27	\$30	\$32	\$37			
%	85%	\$24	\$30	\$33	\$35	\$41			
	90%	\$26	\$33	\$36	\$39	\$45			
	95%	\$29	\$36	\$40	\$42	\$49			
	100%	\$31	\$38	\$43	\$46	\$53			



Beef Cattle - Pastoral

Assumptions:		(Breeding young cattle for store trade)					
Breeding Cow	15	DSE	100	Cow breeding herd			
Calf Weaning	80%		13	cows replaced per y	ear		
Herd Deaths	3%		3%	Bulls bought for			\$3,000
Cows c.f.a	10	years old		sold for			\$1,500
Uses	13	heifers as replacements		after	3	year	S
Carry over calf	8	DSE	100%	carryover to heavier	weig	ghts	
Weaned @	8	months	6	months extra carry of	ver		
Heifers mated @	15	months	2248	Herd DSE			
Stocking rate	2.5	DSE/ha	D	rench cows	0	X	
Area required	899	hectares	Dre	ench calves	0	Χ	
Feeds	20	kg/DSE hay equivalent supplement					

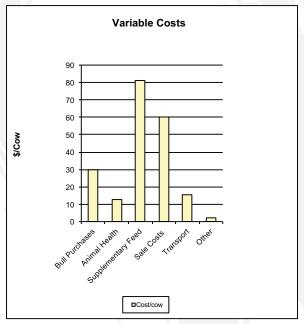
INCOME								2017 YOUR ESTIMATE
Stock sales	67	yearlings	360	kg liveweight (\$3.60	/kg	\$86,832	
Culls	10	Cows @	550	kg lwt @	\$2.50	/kg	\$13,750	
	1	bull@					\$1,500	
GROSS INCOME							\$102,082	
VARIABLE COSTS								
Bull Depreciation								
Bull purchase			1	@	\$3,000	total	\$3,000	
Veterinary & Med	icines			_				
Drench			0	@	\$3.10	/head	\$0	
Ear Tags			80	@	\$4.75	/tag	\$380	
Lice Treatments			196	@	\$3.10	/dose	\$608	
Vaccine (5 in 1)			160	@	\$1.82	/dose	\$291	
Supplementary F	eed							
Hay		45	tonne	@	\$180.00	/tonne	\$8,100	
Grain		0.00	t/head	@	\$200.00	/tonne	\$0	
Sale costs and ot	her							
Insurance			\$111,500	@	\$2.00	/\$1000	\$223	
Water		2248	dse's	@	\$2.50		\$5,620	
Veh Fuel, R&M		2248	dse's	@	\$1.00		\$2,248	
Other		2248	dse's	@	\$0.50		\$1,124	
Transport:	Lvstk	78	head	@	\$20.00	/head	\$1,560	
Commission				@	5.5%		\$5,615	
Levies				@	\$5.00	/head	\$390	
OTAL VARIABLE	COSTS						\$29,158	
GROSS MARGIN TO							\$72,924	
GROSS MARGIN PI	ER COW						\$729	
GROSS MARGIN/DS	SE						\$32.44	
GROSS MARGIN/he	ectare						\$81.10	
COMMENTS Feed costs include a	ın allowar	nce for drough	t fodder.					

Feed costs include an allowance for drought fodder. Livestock weight will vary between cattle breed, feed type and age.

Beef Cattle - Pastoral

GROSS MAR	GIN SENS	SITIVITY		PER COV	V	
			\$/kg LWT	yearlings	s/steers)	
		\$2.50	\$3.00	\$3.60	\$4.00	\$4.50
	60%	\$284	\$369	\$470	\$538	\$622
	65%	\$329	\$423	\$535	\$610	\$703
	70%	\$374	\$477	\$600	\$682	\$784
	75%	\$419	\$531	\$664	\$754	\$865
Weaning	80%	\$464	\$585	\$729	\$826	\$946
%	85%	\$509	\$639	\$794	\$898	\$1,027
	90%	\$554	\$693	\$859	\$970	\$1,108
	95%	\$599	\$747	\$924	\$1,042	\$1,189
	100%	\$644	\$801	\$988	\$1,114	\$1,270

	.0070	ΨΟ	Ψ00.	ΨΟΟΟ	Ψ.,	Ψ.,=. σ		
	PER DSE							
		\$/kg LWT (yearlings/steers)						
		\$2.50	\$3.00	\$3.60	\$4.00	\$4.50		
	60%	\$13	\$16	\$21	\$24	\$28		
	65%	\$15	\$19	\$24	\$27	\$31		
	70%	\$17	\$21	\$27	\$30	\$35		
	75%	\$19	\$24	\$30	\$34	\$38		
Weaning	80%	\$21	\$26	\$32	\$37	\$42		
%	85%	\$23	\$28	\$35	\$40	\$46		
	90%	\$25	\$31	\$38	\$43	\$49		
	95%	\$27	\$33	\$41	\$46	\$53		
	100%	\$29	\$36	\$44	\$50	\$57		
	10070	ΨLU	ΨΟΟ	Ψιι	ΨΟΟ	ΨΟΙ		



Note: The following costs have been collected from a number of regional sources and should be seen as an approximate guide only. Costs will vary depending on situation. Users of this publication should ascertain the relevance of these costs to their particular situation and make adjustments to gross margin budgets if required.

SHEEP					
Lice Control	Avenge	\$18.65	/litre		
Libo Control	, wongo		/80ml dose		
Drench	Hat-trick	\$45.00			
			/10ml dose		
Vaccine	3 in 1	\$93.00	250ml		
		\$0.37	/1ml dose		
	6 in 1	\$117.00			
		\$0.47	/1ml dose		
Blowfly Control	Clik	\$53.75			
			/24 ml dose		
Wool packs	Nylon	\$10.00			
Shearing	Sheep	\$293.31			
	Rams	\$586.62			
	Shed labour	\$221.12	•		
	Wool classer	\$265.89	,		
	Superannuation Work Cover-Allow	9.50% 4.00%	wages		
	Shed sundries		/head		
Crutching	Sheep	\$85.06			
Crutching	Rams	\$170.12			
Lamb marking	Mulesing / materials	\$1.30			
Lamb manning	Marking only	\$1.00			
	Ear tags		/head		
Stock selling	Commission/insurance	5.5%			
3	Yard fees		/head		
	Sheep transaction levy	\$0.20	/head		
	Lamb transaction levy	\$1.50	/head		
	SA sheep industry levy	\$0.35	/head		
	Wool brokerage / testing / insur	\$0.22	/kg		
	Wool levy	2.0%			
DEEL					
BEEF	Genesis Pour-on	¢424.00	llitus		
Drench (backline)	Genesis Pour-on	\$124.00	/litre /25ml dose		
7 in 1 vaccine		\$182.00			
/ III I Vaccine			/2.5ml dose		
NLIS Breeder Tags (incl levy)		\$4.75			
Indicative freight costs for GM purposes	Freight cattle in	\$15.00			
maiodavo neight socia for Sin parposes	Freight cattle out	\$20.00			
	Cattle levy	\$5.00			
	2227.7	*******	7112212		
FEED & OTHER COSTS					
	Water	\$2.50			
	Veh fuel, R&M	\$1.00			
	Other		/DSE		
	Hay		/tonne incl freight		
	Feed Cereal grain		/tonne incl freight		
	Lupins	\$300.00	/tonne incl freight		
		2015			
			2016 Averses	Dudget Desa	Pudget Pess
STOCK RETURNS	2014 Averers (Class)	Average	2016 Average	Budget Base	Budget Base
WOOL - High Rainfall 28 mic 70%Yield	2014 Average (Clean) 675	(Clean) 865	(Clean) 774	(Clean) 650	(Greasy) 455
- High Rainfall 19.5 mic 70% Yld	0/0				1022
	117Q	1305			
ŭ .	1178 1160	1305 1274	1455 1397	1460 1400	
- Med Rainfall 21 mic 68% Yield - Low Rainfall 22 mic 63% Yield	1178 1160 1150	1305 1274 1254	1455 1397 1380	1400 1400 1350	952 830

CHEMICAL COSTS - HERBICIDES	
2,4-D Amine (625g/l)	\$4.50 /litre
2,4-D LV Ester (680g/l)	\$6.30 /litre
Achieve® WG	\$52.00 /kg
Affinity®	\$125.00 /litre
Aptitude®	\$64.00 /kg
Atlantis® (mesosulfuron 30g/L)	\$88.00 /litre
Atrazine (600 gm/litre)	\$7.00 /litre
Axial®	\$147.00 /litre
Balance ®	\$0.16 /gram
Boxer Gold® Broadstrike®	\$15.70 /litre \$0.42 /gram
Diflufenican (Brodal)	\$38.00 /litre
Bromoxynil /MCPA	\$14.00 /litre
Cadence® (700gm/Kg Dicamba)	\$31.70 /kg
Chlorsulfuron 750g/kg (Glean)	\$0.06 /gram
Clopyralid 600g/L (Lontrel® Advanced)	\$44.00 /litre
Crusader®	\$68.00 /litre
Dicamba 500g/L	\$29.30 /litre
Diuron 900 gm a.i. granules	\$11.00 /kg
Factor® (butroxydim 250g/kg)	\$0.13 /gram
Flight®	\$31.24 /litre
Triclopyr 755g/L	\$20.45 /litre
Triclopyr 600g/L	\$14.80 /litre
Glyphosate 540g/L	\$6.00 /litre
Glyphosate 450g/L	\$4.00 /litre
Carfentrazone 400g/L (Hammer)	\$220.00 /litre
Intervix®	\$28.00 /litre
Metribuzin 750 gm/kg	\$25.60 /kg
M.C.P.A. LVE	\$9.35 /litre
MCPA Amine (750g/L)	\$8.95 /litre
Metsulfuron methyl	\$0.07 /gram
Oxyfluorfen 240g/L	\$15.00 /litre
Paradigm®	\$0.47 /gram
Paraquat	\$4.00 /litre
Precept®	\$16.00 /litre
Propyzamide (500 g/L)	\$24.20 /litre
Quizalofop 200g/L	\$20.45 /litre
Reglone®	\$20.00 /litre
Sakura®	\$340.00 /kg
Sentry®	\$0.28 /gram
Clethodim	\$12.00 /litre
Sharpen®	\$0.50 /gram
Simazine Granules 900g/kg	\$7.60 /kg
S-metolachlor 960g/L (Dual®Gold)	\$16.00 /litre
Imazethapyr 700g/kg	\$99.50 /kg
Sprayseed®	\$9.25 /litre
Starane® Advanced (fluroxypyr 333g/L)	\$21.90 /litre
Terbyne® 875	\$26.50 /kg
Tigrex®	\$15.00 /litre
Topik® EC	\$37.70 /litre
I ri-allate 500g/L	\$10.40 /litre
Triasulfuron 750g/kg (Logran) Valor®	\$0.08 /gm \$166.00 /kg
Valor® Velocity®	\$166.00 /kg \$31.50 /litre
Trifluralin 480g/L	\$7.50 /litre
Haloxyfop 520g/L (Verdict)	\$44.00 /litre
rialoxylop 320g/L (Verdict)	944.00 /IIII <i>e</i>
CHEMICAL COSTS - ADJUVANTS	
Uptake (Oil)	\$6.20 /litre
BS-1000 (WETTER)	\$6.00 /litre
Supercharge®	\$7.13 /litre
Hasten®	\$4.70 /litre
Banjo®	\$4.95 /litre
Adigor®	\$8.40 /litre
Hot-up®	\$5.00 /litre
LI-700	\$5.00 /litre
Surfactant cost (with Achieve) Per Ha	\$4.01 Assume 75I/ha @ 0.75% surf.
Oil Cost	\$2.33 Assume 75I/ha @0.5% oil
Wetter Cost per Ha	\$0.45 Assume 75l/ha @ 0.1% surf.

CHEMICAL COSTS - INSECTICIDES			
Dimethoate 400g/L		\$8.45	/litre
Omethoate 400g/L		\$26.00	/litre
Alpha-cypermethrin 16g/L		\$6.90	/litre
Lambda-cyhalothrin (Karate Zeon®)		\$116.00	/litre
Trojan®		\$132.00	/litre
Sumi-Alpha® Flex		\$9.84	
Pyrinex® Super		\$10.20	/litre
Imidan®		\$13.20	
Pirimicarb 500g/kg		\$35.76	/kg
Chlorpyrifos 500g/L		\$9.00	/litre
Bifenthrin 250g/L (Talstar®)		\$48.00	
Imidacloprid 600 g/L		\$37.40	
Transform		\$155.00	
Affirm		\$84.00	/litre
CHEMICAL COSTS - FUNGICIDES			
Apron® XL 350 ES		\$350.00	/litre
Mancozeb 750g/kg		\$8.90	
Veto® 25C Flowable		\$14.80	
Vibrance®		\$34.70	
Baytan® T Flowable		\$30.00	/ka
Armour® C		\$30.00	
P-Pickel T		\$37.60	
Carbendazim 500g/kg		\$16.40	
Tebuconazole 430		\$12.00	
Propiconazole 250g/L		\$12.00	
Chlorothalonil 720g/L		\$12.80	
Prosaro®		\$70.00	
Amistar®		\$38.00	
Tazer® Xpert		\$19.20	
Systiva®		\$199.00	
Procymidone 500g/L		\$20.80	
Cogito®		\$26.00	
Veritas®		\$31.60	
Epoxiconazole 125g/L		\$18.70	
Flutriafol (250g/l) Uniform®		\$18.70 \$63.30	
Official		φ03.30	7iiue
CHEMICAL COSTS - TRACE ELEMENTS			
Zincsulphate		\$1.75	/litre
Coppersulphate		\$3.60	/litre
Mangasulphate		\$1.45	/litre
		•	
ELIEL COSTS		•	
FUEL COSTS Total price - Diesel (GST Eyc)			/litro
Total price - Diesel (GST Exc)		\$1.10	
Total price - Diesel (GST Exc) Rebate		\$1.10 \$0.39	/litre
Total price - Diesel (GST Exc)		\$1.10 \$0.39	
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS		\$1.10 \$0.39 \$0.71	/litre /l bulk includes rebate
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22		\$1.10 \$0.39 \$0.71	/litre /l bulk includes rebate /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20		\$1.10 \$0.39 \$0.71 \$550 \$550	/litre /l bulk includes rebate /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea		\$1.10 \$0.39 \$0.71 \$550 \$550 \$440	/litre /l bulk includes rebate /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate		\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn		\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16		\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13		\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10		\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13		\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia		\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING	cereals	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia	cereals other crops	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING Grading	other crops	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$24.00	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING	other crops cereals	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$24.00 \$1.30	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING Grading Pickling	other crops cereals other crops	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$24.00 \$1.30 \$1.40	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING Grading	other crops cereals other crops wheat	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$1.30 \$1.40	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING Grading Pickling	other crops cereals other crops wheat barley	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$1.30 \$1.40 \$24.00 \$24.00	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING Grading Pickling Cleaning	other crops cereals other crops wheat barley peas	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$1.30 \$1.40 \$24.00 \$25.00 \$30.00	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING Grading Pickling Cleaning Grain Pickling- Wheat	other crops cereals other crops wheat barley peas Veto® 25C Flowable	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$1.30 \$1.40 \$24.00 \$25.00 \$30.00 \$14.80	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING Grading Pickling Cleaning Grain Pickling- Wheat -Barley	other crops cereals other crops wheat barley peas Veto® 25C Flowable Systiva®	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$1.30 \$1.40 \$24.00 \$25.00 \$30.00 \$14.80 \$298.50	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING Grading Pickling Cleaning Grain Pickling- Wheat -Barley Note- Assumes minimum standard of applic	other crops cereals other crops wheat barley peas Veto® 25C Flowable Systiva® ation for smuts and bunts. Mor	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$1.30 \$1.40 \$24.00 \$25.00 \$30.00 \$14.80 \$298.50	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
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Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING Grading Pickling Cleaning Grain Pickling- Wheat -Barley Note- Assumes minimum standard of applic Aphid Control - Cereals	other crops cereals other crops wheat barley peas Veto® 25C Flowable Systiva® ation for smuts and bunts. Mor	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$1.30 \$1.40 \$24.00 \$1.30 \$1.40 \$25.00 \$30.00 \$14.80 \$298.50 re expensive \$89.76 \$112.20	/litre /l bulk includes rebate /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne /tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING Grading Pickling Cleaning Grain Pickling- Wheat -Barley Note- Assumes minimum standard of applic Aphid Control - Cereals - Lupins Inoculant	other crops cereals other crops wheat barley peas Veto® 25C Flowable Systiva® ation for smuts and bunts. Mor Imidacloprid (240ml/100Kg) Legumes	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$1.30 \$1.40 \$24.00 \$24.00 \$1.40 \$25.00 \$14.80 \$298.50 e expensive \$89.76 \$112.20 \$52.00	/tonne
Total price - Diesel (GST Exc) Rebate Net Price Diesel - \$/litre FERTILISER COSTS MAP 10:22 DAP 18:20 Urea Superphosphate DAP/MAP Plus 2% Zn DAP + Urea 24:16 DAP + Urea 28:13 DAP + Urea 32:10 Sulphate of Ammonia GRAIN GRADING & PICKLING Grading Pickling Cleaning Grain Pickling- Wheat -Barley Note- Assumes minimum standard of applications and standard of applications.	other crops cereals other crops wheat barley peas Veto® 25C Flowable Systiva® ation for smuts and bunts. Mor Imidacloprid (240ml/100Kg) Imidacloprid (300ml/100Kg)	\$1.10 \$0.39 \$0.71 \$550 \$550 \$440 \$360 \$610 \$543 \$527 \$510 \$460 Cost /Tonne \$22.00 \$1.30 \$1.40 \$24.00 \$25.00 \$30.00 \$14.80 \$298.50 expensive \$89.76 \$112.20 \$52.00	/litre /l bulk includes rebate /tonne

FREIGHT COSTS (as included in Gross Margins)		Cost /Tonne
CANOLA		\$25.00
FERTILIZER		\$20.00
LENTILS		\$30.00
OTHER LEGUME GRAINS		\$25.00
CEREAL GRAINS		\$20.00
TRITICALE		\$25.00
HAY-OATEN		\$28.00
CONTRACT RATES (indicative only- will be highly variable	depending on	situation)
Ground Spraying	\$10.00	/hectare
Aerial spraying	\$14.00	/hectare
Contract harvesting cereals, low rainfall	\$45.00	/hectare
Contract harvesting cereals, high rainfall	\$65.00	/hectare
Contract harvesting pulse/canola, low rainfall	\$72.00	/hectare
Contract harvesting pulse/canola, high rainfall	\$95.00	/hectare
Windrowing	\$35.00	/hectare
Contract spreading	\$8.50	/hectare excludes cartage
Contract sowing	\$45.00	/hectare
Haymaking		
Contract mowing	\$48.00	/hectare
Hire of rake(supply own tractor and labour)	\$6.00	/hectare
Contract baling (650kg square bales)	\$20.00	/bale
Super conditioner (oaten hay)	\$25-40.00	/hectare
INSURANCE COSTS		
Livestock		
Sheep and cattle	\$2.00	/\$1,000 insured
Crops		
Cereals	\$8.50	/\$1,000 insured
Chickpeas, lupins, safflower	\$10.00	/\$1,000 insured
Faba beans, vetch, lentils, canola	\$12.00	/\$1,000 insured
Field Peas	\$16.00	/\$1,000 insured

Gross Margin Pro forma

INCOME					\$/ha
Average yield					
(estimated silo return)	t/ha @)	\$	/tonne	
				TOTAL INCOME	
EXPENSES					
Pool Charges					
& Interest	t/ha	@	\$	/tonne	
Seed	kg/ha	@	\$	/tonne	
Seed treatment	kg/ha	@	\$	/tonne	
Fertiliser					
	kg/ha	@	\$	/tonne	
	kg/ha	@	\$	/tonne	
	kg/ha	@	\$	/tonne	
Chemicals					
Herbicides					
Insecticides					
Insecticides					
Fungicides					
Tanglolado					
Machinery					
Fuel & Oil					
Repairs & Maintenance					
Facility					
Freight Grain	kg/ha	@	\$	/tonne	
Fertiliser	kg/ha	@	\$	/tonne	
1 01411001			т		
Contract Work					
	kg/ha	@	\$	/tonne	
	kg/ha	@	\$	/tonne	
Insurance					
Other	kg/ha	@	\$	/tonne	
	kg/ha	@	\$	/tonne	
	-		TO	TAL EXPENSES	
		GRO		GIN /HECTARE	

RURAL SOLUTIONS SA PIRSA

RSSA delivers innovative agribusiness solutions increasing client profitability and value



AREAS OF EXPERTISE

- ✓ Sustainable agriculture and farming systems
- ✓ Agronomy & Soil productivity
- ✓ Livestock systems
- ✓ Horticulture and irrigation systems
- ✓ Seafood industry development
- ✓ Business and strategic planning
- ✓ Industry and policy development
- ✓ Market and value chain development







SA GRAIN GROWERS FUNDING RESEARCH SOLUTIONS FOR 25 YEARS

SAGIT has invested \$2.3 million in new projects in 2016-17 supporting research crucial to the advancement of the SA grain industry with funds coming from the 30c a tonne contribution on all grain delivered by SA grain growers.

In 2016-17, SAGIT is supporting 47 projects including:

- Adopting profitable crop sequences in the SA Mallee -Mallee Sustainable Farming
- AgEx Forum Ag Excellence Alliance
- Agronomic evaluation of durums for crown rot resistance - Southern Australia Durum Growers Association
- Burning weed seeds in low rainfall cropping systems - SARDI
- Common vetch as a break crop for marginal cropping systems - SARDI
- Communicating innovations in Precision Agriculture: Factsheet series - SPAA
- Crown rot resistance in durums SARDI
- Dual-purpose canola for SA's high rainfall zone - SARDI
- Efficiency of various fertiliser N products on sandy soil types -Agronomy Solutions
- Extension and outreach of SAGIT-funded projects -AgCommunicators
- **EP Farming Systems Summary** 2016-2018 - EPARF
- Genetic characterisation and exploitation of heat stress tolerant barley germplasm - AGT
- Genetic characterisation and exploitation of heat stress tolerant durum germplasm - AGT
- Getting crop management right for maximum 2016 profits Agriculture Kangaroo Island
- Grain research internships -**SARDI**
- Growing durum demand in SA: gross margin sensitivity analysis trials - University of Adelaide
- Hi-tech crop monitoring stations - Agbyte

- Identification of sodicity tolerant · SA Crop Variety Sowing Guides oat varieties - University of Adelaide
- Identifying the causes of unreliable N fixation by medic based pastures - SARDI
- Improving fertiliser efficiency and reducing disease impacts using fluid delivery systems - SARDI
- Improving nitrogen use efficiency via legumes in high rainfall cropping - Ag KI
- Improving pre-emergent herbicide efficacy in stubble retention systems - Hart Field-site Group
- Improving soil health to maximise water use efficiency in the Upper North - Upper North Farming Systems
- Improving weed control in new herbicide tolerant lentils - SARDI
- Increasing lentil productivity on dune and swale soils - Trengove Consulting
- Long-term cropping systems trial: Effect on soil biology and nitrogen mineralisation - Hart Field-site Group
- New field-based tools to rapidly assess crop nitrogen and stress status - University of Adelaide
- Novel genes for improved P efficiency and yield in barley -University of Adelaide
- Optimising legume inoculation for dry sowing - SARDI
- Publication of the 2017 Farm Gross Margin Guide for SA -Rural Solutions SA
- Reassessing the value of phosphorus replacement strategies on fixing soils -University of Adelaide
- Regional internship in applied grains research - Hart Field-site Group

- SARDI
- SANTFA 18th Annual Conference 2016 - SANTFA
- Seed to Store YouTube clip competition - AgCommunicators
- Sharing knowledge of agricultural innovations: Precision Ag expos and symposiums - SPAA
- Silverleaf nightshade long-term management effects of annual herbicide applications - PIRSA
- SOILS getting the most out of your sands - EPARF
- Sulphur deficiency research in lentils and wheat on dune swale soils - Northern Sustainable Soils
- Support for workshop on data presentation and interpretation -Ag Institute Australia
- The application of bent-leg technologies to higher speed, tyned seeding of cereal grains -University of SA
- · The H sensor: a weed ID and mapping system - SPAA
- The Peter Waite Centeneray Scholarship - University of Adelaide
- Time of sowing influence on phosphorus requirements and soil testing - Agronomy Solutions
- Upper North time of sowing and yield loss from frost/heat stress - UNFS
- · Upskilling women of the Upper North in sustainable and productive farming principles -**UNFS**
- Using soil water information to make better decisions on Eyre Peninsula - EPARF

For more information on the SA Grain Industry Trust and its activities:

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