

2022

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 2022

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

A PIRSA publication

Sponsored by SAGIT and Livestock SA

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Published February 2022

Farm Gross Margin and Enterprise Planning Guide 2022

The South Australian Grain Industry Trust (SAGIT), Livestock SA, the Department of Primary Industries and Regions (PIRSA) and the Grains Research and Development Corporation (GRDC), are pleased to produce and distribute this annual publication on expected gross margins for broadacre cropping and livestock enterprises in South Australia.

The guide incorporates the 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, seasonal constraints, input costs and market dynamics.

With the large increase in fertiliser and some chemical prices, combined with limited availability of some products, it will be critical to assess the potential profitability of alternatives when making enterprise selection decisions for 2022. With the potential limited availability of nitrogen fertiliser, legume break crops could play a larger role in rotations. 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 preloaded into an editable version which can be quickly and easily adjusted to represent individual farmer circumstance. This allows the incorporation of an individual's own beliefs and judgements in producing their relevant numbers to aid decision making.

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

To be factored into decision making for 2022 will be the conditions and outcomes from the previous season.

In 2021, below average summer rainfall in the eastern part of the agricultural districts limited the opportunity to conserve soil moisture, and patchy and late opening rains limited early crop growth, particularly in the Mallee districts.

Growing season rainfall in 2021 was average to below average across the agricultural districts. Dry conditions in April and May resulted in a high percentage of the crop sown dry with delayed germination. Farmers who waited for adequate rain before sowing did not complete sowing until well into June.

Above average June and July rainfall in most districts bolstered yield prospects, however, dry conditions in August and September again reduced yield potential in most districts. Severe frost in some areas, particularly the Upper South-East (?) significantly reduced grain yields, with only the worst affected areas cut for hay due to low hay prices. Thunderstorms produced strong winds and hail in late October and early November, causing severe crop damage to isolated strips in a number of districts which affected both yield and grain quality.

Cattle and sheep meat prices have increased and wool prices have slowly recovered, with a substantial premium for fine wools. The late break to the season and cold winter slowed pasture growth and most livestock producers continued to feed grain and hay to livestock into late June and July. Dry conditions in August and September limited pasture growth, and the rain in October and November was too late for annual pasture in the medium and lower rainfall districts but benefited perennial pastures.

The continued profitability of some break crops has underpinned an increase in the area sown to these crops in the medium to higher rainfall districts, however, their high cost of production and variable yields resulted in the area sown fluctuating from season to season in lower rainfall districts. 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.

The recent run of dry springs has tested the profitability of these 'break crops', particularly in the lower rainfall areas, with an increasing number of farmers reverting back to lower risk cereal crops and pastures.

The lifting of the moratorium on genetically modified organisms in SA will allow producers to grow GM crops, particularly Roundup Ready® canola. The economics of this will vary, however, it will provide another weed management tool for growers.

In farm business management, the focus is on getting the most from existing land and assets. The partners in this publication have important roles to play in this process. For example, SAGIT provides local solutions to local problems, investing more than \$2 million each year in supporting SA-centric grains research.

SAGIT, PIRSA, Livestock SA and the GRDC hope this guide acts as a valuable aid in your decision making for the coming season and beyond.



Max Young

Chair

SAGIT





Joe Keynes

Chair

Livestock SA





Dr Peter Appleford

Executive Director Industry and Regional Development

Department of Primary Industries and Regions



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.



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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. These tables assume input costs remain the same, however generally these will vary with changes in yield.

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).

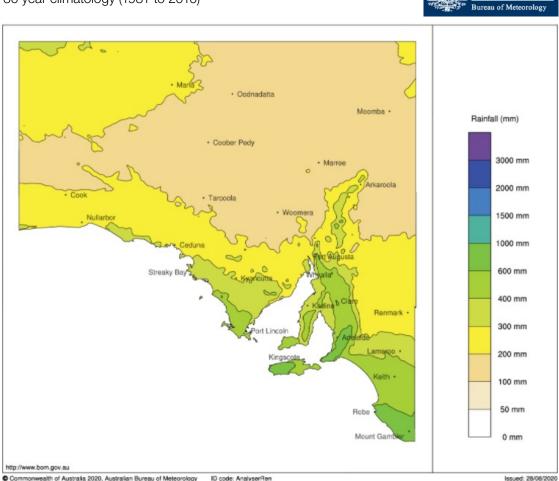
KEY POINT

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

Australian Govern

Average annual rainfall

30 year climatology (1981 to 2010)



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:

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 reduced or even removed livestock from the system. 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 (eg cereals on legumes) and negative (eg 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

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

Farm Financial Tool- Livestock Gross Margin Budget

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

Calculating Your Own Gross Margins

The gross margins in this guide are designed to <u>provide a template only</u>, 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 (eg 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.pir.sa.gov.au/consultancy/farm_gross_margins_and_enterprise_planning_guide www.sagit.com.au/publications/

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.

2022 South Australian Crop Variety Sowing Guide

This guide, compiled by officers from 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.

A national benchmarking study found that the superior profitability achieved by the Top 20% of producers is a function of four primary profit drivers:

- 1. gross margin optimisation,
- 2. developing a low cost business model,
- 3. people and management and
- 4. risk management

It is the interaction of these that results in very different profit outcomes and if one of these is overlooked it will compromise long term profit potential at some point.

Key cropping enterprise profit drivers

- 1. Operational timeliness
 - Across the full calendar year for all operations
 - This will leverages 10% to 15% more yield
- 2. Agronomy
 - · Robust crop rotation and crop management
 - A disciplined approach to variable costs (less than 40% of turnover)
- 3. Machinery utilisation
 - 0.7 : 1 Machinery Investment : Income ratio or lower
- 4. Labour utilisation
 - Greater than \$600,000 turnover per full time equivalent (FTE)

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. Below average spring and/or summer rainfall will limit the opportunity to store soil moisture.

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)
- There is a strong case to apply zero tolerance summer weed control policy on light soils with no subsoil 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® or the CSIRO developed Yield and N Calculator.

Refer www.yieldprophet.com.au

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.

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

Livestock

The following indicators are useful to measure the productivity and efficiency of your livestock enterprises over time or against similar businesses.

Key Livestock profit drivers

- 1. Sheep productivity benchmarks
 - > 7kg clean wool/ha/100mm rainfall = strong
 - kg lamb dwt/ha/100mm rainfall
 - Low < 15kg
 - Average 15 to 20 kg
 - High > 20 kg
- 2. Cost of production
 - \$ per kg clean wool
 - \$ per kg lamb dwt
 - \$ per kg beef dwt
- 3. Stocking rate
 - · In areas with more than 350mm rainfall the use of improved pasture species and fertilisation
 - > 1.5 DSE's/ha/100mm rainfall = strong for wool
 - > 2 DSE's/ha/100mm rainfall = strong for prime lambs
- 4. Fertility and lamb/calf survival (weaning percentage)
- 5. Labour productivity (DSE/labour unit)

Extensive Grazing Systems

With the current high returns for livestock, it is important to focus more on production per head and not so much on Cost of Production.

Increase production through:

- genetic improvement
- · good nutrition, particularly in late pregnancy and lactation
- · good animal health practices and
- · retaining the most productive animals in poor seasons



Family and Business Mentors

South Australian farmers, their families and businesses impacted by adverse events such as bushfire and drought, can access help through the Family and Business Support Program.

Family and Business (FaB) Mentors

FaB Mentors are experienced individuals that will listen and help you find ways to manage your situation. Mentors liaise with government and nongovernment service providers and can help provide connections to services including:

- funding and support measures available to primary producers
- financial counselling
- local health networks
- emotional wellbeing and counselling services
- government and non-government assistance
- community organisations and assistance.

Talking to a FaB Mentor is free and confidential. They provide an informal, independent and understanding platform for farmers, their families or businesses affected by drought, bushfire or other adverse events.

If you or someone you know needs help, connect with a FaB Mentor for a free, confidential chat.

Contact the team

Adelaide Hills

Colleen White: 0409 388 649

Kangaroo Island

Ros Willson: 0427 531 200Tracie Heinrich: 0427 596 107Albert Singh: 0400 443 108

Eyre Peninsula

Steve Whillas: 0458 852 268

Murray Mallee and Riverland

Robyn Cain: 0411 633 085
John Chase: 0419 848 672
Brent Fletcher: 0439 409 430

Northern Agricultural Areas

Anthony North: 0409 398 435Emma Scharkie: 0407 600 038Judy Wilkinson: 0401 122 049

John White (also Pastoral): 0447 787 436

Pastoral

Anne Collins: 0427 486 115

This program is funded by the South Australian Government, and coordinated by Department of Primary Industries and Regions.

PIRSA Recovery Hotline: 1800 931 314

pir.sa.gov.au/fabs



2022 Gross Margin Estimates

The tables below summarise the anticipated gross margins for all crops and livestock for 2022.

CRO	PPING		
Commodity \$/ha	Low	Medium	High
APW Wheat	330	516	746
Durum	376	818	1,331
Malt Barley	140	297	473
Feed Barley	107	241	389
Milling Oats	99	285	406
Triticale	43	158	278
Oaten Hay	333	584	623
Grain Vetch	137	389	643
Lupins	66	216	378
Lentils	273	723	1,165
Lentils- Imi Tolerant	199	589	966
Field Peas	114	346	567
Faba Beans	86	376	898
Chickpeas (Kabuli)	171	387	661
Canola- Conv	105	384	714
Canola-TT	17	241	586
Canola-Clear	57	294	625
Canola- Roundup Ready	114	294	595
Sown Pasture	96	253	508
Self Regen Pasture	161	314	567
Lucerne Pasture		165	519
Phalaris sub clover Pasture			551

LIVESTOCK										
Enterprise \$/dse	Pastoral Zone	Cereal Zone	High R/F Zone							
Prime Lambs	78	86	86							
Merino breeders	48	65	75							
Merino wethers	13	25	34							
Cleanskin	64	82								
Beef Cattle	48	56	59							
Beef Trading			8							
Beef Feed Lot \$/hd		81								

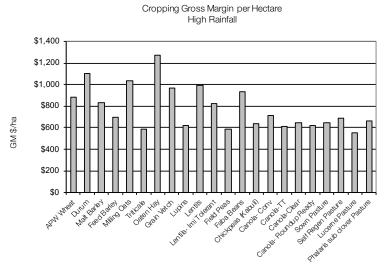
Commodity Prices Historical Data

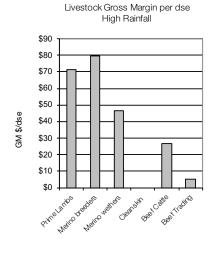
Historical commodity price data and trends can be used as a guide in assessing average returns over time and also the variability of those returns for any given commodity.

NOTE: 22/23 Forecast Grain Prices: Forecast grain prices for 22/23 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.

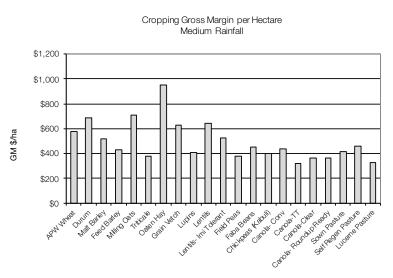
Commodity pricing in the following table is on delivered end-user basis e.g. Grain is delivered port basis (Adelaide/Port Lincoln).

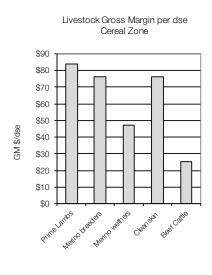
Commodity	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	5 yr Average	2022 Estimate
APW Wheat (\$/t)	240	390	330	280	410	330	350
Durum (\$/t)	310	397	450	375	610	428	550
Malt Barley (\$/t)	288	360	285	230	326	298	280
Feed Barley (\$/t)	225	330	265	225	310	271	260
Milling Oats (\$/t)	200	600	500	250	300	370	275
Feed Oats (\$/t)	180	500	400	215	280	315	240
Triticale (\$/t)	220	315	270	215	300	264	250
Grain Vetch (\$/t)	350	700	700	500	700	590	500
Lupins (\$/t)	270	550	450	300	410	396	350
Lentils (\$/t)	420	600	600	630	1000	650	700
Field Peas (\$/t)	285	640	470	360	500	451	450
Faba Beans (\$/t)	315	900	590	345	550	540	550
Chickpeas 6-8mm Kabuli (\$/t)	900	730	590	560	850	726	800
Canola (\$/t)	480	550	600	580	900	622	750
Oaten Hay (\$/t)	170	340	250	210	220	238	265



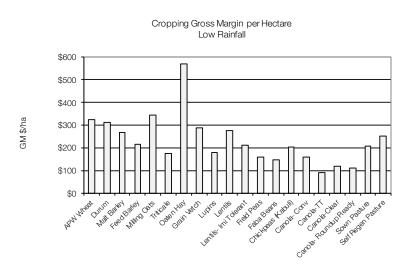


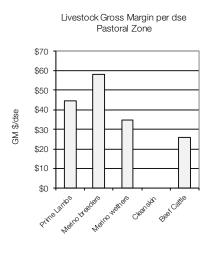
Comparative returns between farm enterprises - High Rainfall





Comparative returns between farm enterprises - Medium Rainfall





Comparative returns between farm enterprises – Low Rainfall

APW Wheat

Gross Margin

INCOME										2022 YOUR
			Rainfall 2	Zone	LOW		MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)				-00	\$350		\$350		\$350	
Quality	APW (Chand	ae Price foi	other grades	3)	****		****		****	
Yield (t/ha)	(2	,	J	-,	1.8		3.2		4.8	
GROSS INCOME					\$630		\$1,120		\$1,680	
					7000		4 1 , 1 = 1		71,000	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Seed	\$0.41	/kg	@	60	\$24.60	80	\$32.80	100	\$41.00	
Seed Treatment(1)	\$0.05	/kg	@	60	\$2.76	80	\$3.68	100	\$4.60	
Seed Treatment(2)	\$10.48	/100 kg	@	60	\$6.29	80	\$8.38	100	\$10.48	
Levies					,					
GRDC Levies	1.0%	Gross Inc	ome		\$6.30		\$11.20		\$16.80	
EPR & state levies		/tonne so			\$6.30		\$11.20		\$16.80	
Fertiliser (Bulk)	ψυ.50				\$0.00		Ψ11.20		\$10.00	
18:20:0	\$1,300	/tonne	@	45	\$58.50	70	\$91.00	100	\$130.00	
Flutriafol (on fert)	\$45.00		@	0.2	\$9.00	0.2	\$9.00	0.2	\$9.00	
Urea	\$1.500		@	0.2	\$0.00	100	\$150.00	200	\$300.00	
Chemicals-Herbicides	φ1,500	/torine	w		φυ.υυ	100	\$150.00	200	φ300.00	
Summer Weed Control		Variana	Allere		# 40.00		#40.00		¢40.00	
		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents	40.00	4:1		4.5	# 40.00		# 0.00		Φ0.00	
Trifluralin 480g/L	\$8.00	/litre	@	1.5	\$12.00		\$0.00		\$0.00	
Tri-allate 500g/L	\$12.80	/litre	@	1.6	\$20.48		\$0.00	2	\$25.60	
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Sakura	\$357.12	/kg	@		\$0.00	0.118	\$42.14	0.118	\$42.14	
Post-emergents										
Topik (3)	\$34.00	/litre	@			0.085	\$6.55	0.085	\$6.55	
M.C.P.A. LVE	\$15.30	/litre	@	0.5	\$7.65	0.5	\$7.65	0.5	\$7.65	
Metsulfuron methyl(4)	\$0.07	./gm	@	5	\$0.42		\$0.00		\$0.00	
Clopyralid 300g/L	\$42.00	/litre	@	0.075	\$3.15	0	\$0.00	0	\$0.00	
Paradigm® (3)	\$0.52	/gm	@			25	\$16.66	25	\$16.66	
Fungicides		-								
Epoxiconazole 125g/L	\$30.00	/litre	@			0.5	\$15.00	0.5	\$15.00	
Amistar Xtra	\$36.23	/litre	@			0	\$0.00	0.4	\$14.49	
Operations	\$00.20									
Fuel & Oil					\$12.48		\$14.98		\$17.47	
Repairs & Maintenance					\$16.91		\$20.29		\$23.68	
Freight					Ψισισι		Ψ20.20		Φ20.00	
Grain (t)	\$25.00	/tonne	@	1.8	\$45.00	3.2	\$80.00	4.8	\$120.00	
Fertiliser (t)	\$25.00		@	0.05	\$1.13	0.17	\$4.25	0.30	\$7.50	
i er tiliser (t)	Ψ20.00	/torille	•	0.00	ψ1.10	0.17	Ψ4.20	0.50	Ψ1.50	
Contract Work										
Aerial spraying	\$15.00	/ha	@		\$0.00		\$0.00	1	\$15.00	
Urea spreading	\$8.50		@		\$0.00	1	\$8.50	2	\$17.00	
Insurance		/\$1000	@		\$5.67	1	\$10.08	2	\$17.00	
Other	\$0.00		₩		ψυ.υ1		ψ10.00		ψ10.1	
Ou ioi	\$0.00									
TOTAL VARIABLE COS		/1 ICI			\$300		\$604		\$934	
GROSS MARGIN/hecta					\$330		\$516		\$746	
Break Even Price (to co		costs only	Λ		\$166		\$189		\$194	
Break Even Yield (to co					0.86		1.73		په ع 2.67	
Gross Margin based on									\$650	
Gross Margin based on	nasio year a	verage pr	CC		\$294		\$452		φοου	

COMMENTS

- (1) Seed grading plus Smuts and Bunts.
 (2) Aphid Treatment.
 (3) Includes Oil @ 0.5%.
 (4) Includes Surfactant at 0.1%.

AGRONOMIC NOTES

Nitrogen requirements will vary depending on individual paddocks- seek

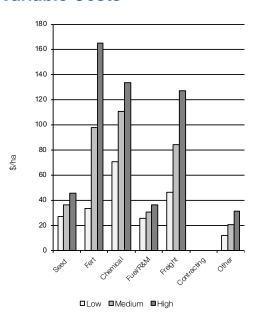
If targeting higher protein, additional N inputs will be required.

				LOW RAINFA	LL					
	Cash Price \$/t									
	\$250 \$275 \$350 \$325									
	0.5	-\$128	-\$116	-\$79	-\$91	-\$79				
Yield	1.2	\$24	\$53	\$141	\$112	\$141				
t/ha	1.8	\$154	\$198	\$330	\$286	\$330				
	2.5	\$306	\$367	\$551	\$489	\$551				
	3.5	\$522	\$608	\$866	\$780	\$866				
				MEDILIM RAI	NFΔII					

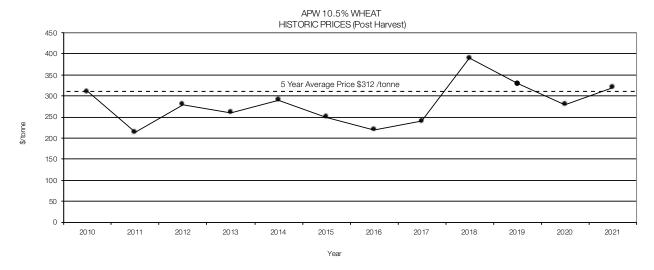
				MEDIUM KA	INFALL					
	Cash Price \$/t									
	\$250 \$275 \$350 \$325									
	1	-\$275	-\$251	-\$177	-\$202	-\$177				
Yield	2	-\$58	-\$9	\$138	\$89	\$138				
t/ha	3.2	\$202	\$280	\$516	\$437	\$516				
	4		\$473	\$768	\$669	\$768				
	5	\$592	\$715	\$1,082	\$960	\$1,082				
	HIGH RAINFALL									

	Cash Price \$/t									
		\$250	\$350	\$325	\$350					
	2.5	-\$223	-\$162	\$22	-\$39	\$22				
Yield	3.5	-\$6	\$80	\$337	\$251	\$337				
t/ha	4.8	\$276	\$393	\$746	\$629	\$746				
_	5.5	\$427	\$562	\$967	\$832	\$967				
	6.5	\$644	\$803	\$1,282	\$1,122	\$1,282				

Variable Costs



Historic Prices and Trends



Machinery Costs

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	3.44	4.25
spray	6	3.80	2.52
harvest#	1	9.67	5.71
TOTAL		16.91	12.48

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

Durum

Gross Margin

INCOME			Rainfall 2	7 ono	LOW	ĺ	MEDIUM		HIGH	YOUR ESTIMATE
Price (20/21 Forecast)			naiiliali 2	Lone	\$550		\$550		\$550	ESTIMATE
Quality	DR 1				ΨΟΟΟ		φυσο		ΨΟΟΟ	
Yield (t/ha)	DITT				1.4		2.7		4	
GROSS INCOME					\$770		\$1,485		\$2,200	
					Ψίιο		ψ1,100		\$2,200	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low		Medium	\$/ha	High	\$/ha	
Seed										
Seed	\$0.61	/kg	@	80	\$48.80	90	\$54.90	110	\$67.10	
Seed Treatment(1)	\$0.17	/kg	@	80	\$13.36	90	\$15.03	110	\$18.37	
Seed Treatment(2)	\$10.48	/100kg	@	80	\$8.38	90	\$9.43	110	\$11.52	
Levies										
GRDC Levies	1.0%				\$7.70		\$14.85		\$22.00	
EPR & state levies	\$3.50	/tonne so	ld	1	\$4.90		\$9.45		\$14.00	
Fertiliser (Bulk)										
Granulock Z	\$1,400	/tonne	@	45	\$63.00	70	\$98.00	100	\$140.00	
Urea	\$1,500	/tonne	@	50	\$75.00	150	\$225.00	200	\$300.00	
Chemicals-Herbicides										
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Trifluralin 480g/L	\$8.00	/litre	@	1	\$8.00		\$0.00		\$0.00	
Tri-allate 500g/L	\$12.80	/litre	@	1.6	\$20.48		\$0.00		\$0.00	
Boxer Gold	\$10.60	/litre	@		\$0.00	2.5	\$26.50	2.5	\$26.50	
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Post-emergents										
MCPA LVE	\$15.30	/litre	@	0.5	\$7.65	0.5	\$7.65	0.5	\$7.65	
Clopyralid 300g/L	\$42.00	/litre	@	0.075	\$3.15		\$0.00		\$0.00	
Paradigm® (3)	\$0.52	/gm	@		\$0.00	25	\$16.66	25	\$16.66	
Metsulfuron methyl(3)	\$0.07	./gm	@	5	\$0.42		\$0.00		\$0.00	
Operations										
Fuel & Oil					\$12.06		\$14.47		\$16.89	
Repairs & Maintenance					\$16.28		\$19.53		\$22.79	
Freight									-	
Grain (t)	\$25.00	/tonne	@	1.4	\$35.00	2.7	\$67.50	4.0	\$100.00	
Fertiliser (t)	\$25.00	/tonne	@	0.10	\$2.38	0.22	\$5.50	0.30	\$7.50	
Contract Work									-	
Aerial spraying	\$15.00	/ha	@		\$0.00		\$0.00		\$0.00	
Urea spreading	\$8.50	/ha	@		\$0.00	1	\$8.50	2	\$17.00	
Insurance		/\$1000	@		\$6.93		\$13.37		\$19.80	
Other	• • • •				,					
TOTAL VARIABLE COST	rs				\$394		\$667		\$869	
GROSS MARGIN/hectare					\$376		\$818		\$1,331	
Break Even Price (to co	-	costs only	/)		\$282		\$247		\$217	
Break Even Yield (to co					0.72		1.21		1.58	
Gross Margin based on					\$236		\$548		\$931	

COMMENTS

- Assumes durum follows a legume crop or pasture.
 Price assumes Durum 13% is achieved.
 (1) Seed grading plus Crown Rot (seedling infestations) and Smuts and Bunts.
- (2) Aphid Control.(3) Includes surfactant and/or oil.

AGRONOMIC NOTES

Some Durum varieties have a narrow safety margin with broadleaf herbicides. Seek advice. The effect is worse when the crop is under stress.

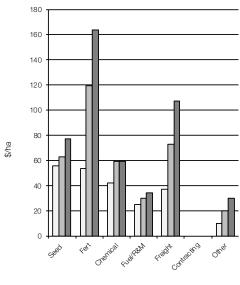
LOW	RAINFALL

Net Price \$/t									
\$300 \$350 \$550 \$450 \$50									
	-\$10	\$30							
Yield	1.4	\$32	\$101	\$376	\$238	\$307			
t/ha	2	\$192	\$290	\$682	\$486	\$584			
2.8 \$404 \$542 \$1,091 \$816									

	MEDIUM RAINFALL								
	Net Price \$/t								
\$300 \$350 \$550 \$450 \$50									
	1.5	-\$163	-\$90	\$204	\$57	\$131			
Yield	2.7	\$155	\$288	\$818	\$553	\$685			
t/ha	3.5	\$368	\$540	\$1,227	\$883	\$1,055			
	4.5	\$634	\$855	\$1,738	\$1,296	\$1,517			

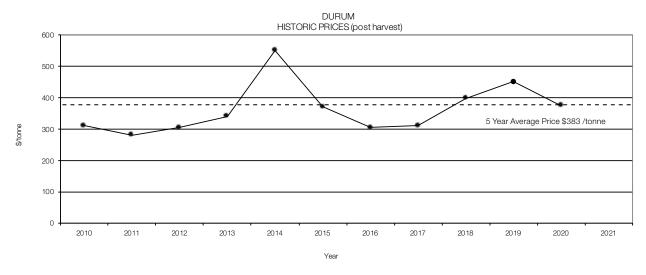
				HIGH RAIN	FALL				
	Net Price \$/t								
		\$300	\$350	\$550	\$450	\$500			
	2	-\$181	-\$83	\$309	\$113	\$211			
Yield	3	\$84	\$232	\$820	\$526	\$673			
t/ha	4	\$350	\$546	\$1,331	\$939	\$1,135			
	6	\$882	\$1,176	\$2,353	\$1,765	\$2,059			

Variable Costs



□Low ■Medium ■High

Historic Prices and Trends



Machinery Costs

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	3.44	4.25
spray	5	3.17	2.10
harvest#	1	9.67	5.71
TOTAL		16.28	12.06

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

Malting Barley

Gross Margin

INCOME										YOUR
			Rainfall 2	Zone	LOW		MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)	Molt				\$280		\$280		\$280	
Quality	Malt				4.0		0.0		4.0	
Yield (t/ha) GROSS INCOME					1.8 \$504		3.2 \$896		4.8 \$1,344	
SHOSS INCOME					\$304		2090		\$1,344	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed					•				†	
Seed	\$0.33	/kg	@	60	\$19.56	75	\$24.45	80	\$26.08	
Seed Treatment(1)	\$0.05	/kg	@	60	\$2.76					
Seed Treatment(2)	\$0.36	/kg	@	0	\$0.00	75	\$27.23	80	\$29.05	
Seed Treatment(3)	\$10.48	/100kg	@	60	\$6.29	75	\$7.86	80	\$8.38	
_evies										
GRDC Levies	1.0%	Gross Inc	ome		\$5.04		\$8.96		\$13.44	
EPR & state levies	\$4.30	/tonne so	ld		\$7.74		\$13.76		\$20.64	
Fertiliser (Bulk)										
18:20:0	\$1,300	/tonne	@	45	\$58.50	70	\$91.00	100	\$130.00	
Jrea	\$1,500	/tonne	@	50	\$75.00	100	\$150.00	200	\$300.00	
Chemicals-Herbicides										
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents										
Frifluralin 480g/L	\$8.00	/litre	@	1.5	\$12.00					
Fri-allate 500g/L	\$12.80	/litre	@	1.6	\$20.48					
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Boxer Gold	\$10.60	/litre	@			2.5	\$26.50	2.5	\$26.50	
Post-emergents										
M.C.P.A. LVE	\$15.30	/litre	@	0.5	\$7.65	0.5	\$7.65	0.5	\$7.65	
Metsulfuron methyl(4)	\$0.07	./gm	@	5	\$0.42					
Clopyralid 300g/L	\$42.00	/kg	@	0.04	\$1.68					
Paradigm® (4)	\$0.52	/gm	@			25	\$16.66	25	\$16.66	
-ungicides										
Cogito	\$23.75	/litre	@	0.25	\$5.94		\$0.00	0.25	\$5.94	
Amistar Xtra	\$36.23	/litre	@			0.4	\$14.49	0.4	\$14.49	
Operations										
-uel & Oil					\$12.06		\$14.47		\$16.89	
Repairs & Maintenance					\$16.28		\$19.53		\$22.79	
Freight										
Grain (t)	\$25.00	/tonne	@	1.8	\$45.00	3.2	\$80.00	4.8	\$120.00	
ertiliser (t)	\$25.00	/tonne	@	0.10	\$2.38	0.17	\$4.25	0.30	\$7.50	
Contract Work	0.1				40.00	_	045.00		0.45.00	
Aerial spraying	\$15.00		@	0	\$0.00	1	\$15.00	1	\$15.00	
Jrea Spreading	\$8.50		@		\$0.00	1	\$8.50	2	\$17.00	
nsurance Other	\$9.00	/\$1000	@		\$4.54		\$8.06		\$12.1	
ou ioi										
TOTAL VARIABLE COS					\$364		\$599		\$871	
GROSS MARGIN/hecta	-				\$140		\$297		\$473	
Break Even Price (to c					\$202		\$187		\$181	
Break Even Yield (to c					1.30		2.14		3.11	
Gross Margin based or	n last 5 year a	verage pri	ce		\$149		\$313		\$497	

COMMENTS

Assumes barley follows wheat.

Price assumes Malting grade is achieved which is high risk. Achieving Frice assumes Maiting grade is achieved which is high risk. feed grade would result in lower Gross Margin.
Having to windrow barley will reduce GM by around 25/ha.
(1) Seed grading plus Smuts and bunts.
(2) Systiva Seed Dressing.
(3) Aphid Control.
(4) Includes surfactant and/or oil.

AGRONOMIC NOTES

Urea may not be required following a legume pasture or grain legume

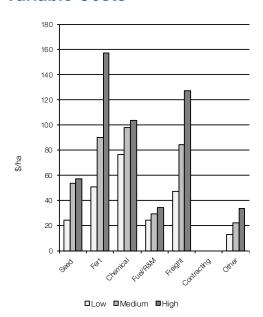
		LOW RAINFALL									
Net Price \$/t											
\$170 \$200 \$280 \$270 \$30											
	0.5	-\$233	-\$219	-\$179	-\$184	-\$169					
Yield	1.2	-\$137	-\$102	-\$8	-\$19	\$16					
t/ha	1.8	-\$55	-\$2	\$140	\$122	\$175					
	2.5	\$42	\$115	\$311	\$287	\$361					
	3.5	\$557	\$523	\$626							

LOW DAINEALL

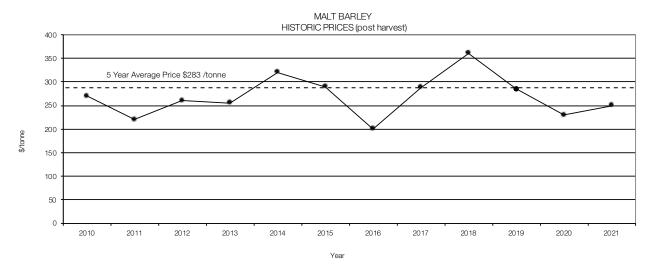
	3.5	\$179	\$282	\$557	\$523	\$626
				MEDIUM R	AINFALL	
		N	let Price \$/	't		
		\$170	\$200	\$280	\$270	\$300
	1	-\$351	-\$322	-\$243	-\$253	-\$224
Yield	2	-\$214	-\$155	\$2	-\$17	\$41
t/ha	3.2	-\$49	\$45	\$297	\$265	\$359
	4	\$61	\$179	\$493	\$454	\$571
	5	\$199	\$346	\$738	\$689	\$836
				HIGH RAIN	FALL	

\$170 \$200 \$280 \$270 \$30									
2.5	-\$361	-\$288	-\$91	-\$116	-\$42				
3.5	-\$224	-\$121	\$154	\$120	\$223				
4.8	-\$45	\$96	\$473	\$426	\$567				
5.5	\$51	\$213	\$645	\$591	\$753				
6.5	\$189	\$380	\$890	\$826	\$1,018				
	3.5 4.8 5.5	\$170 2.5 -\$361 3.5 -\$224 4.8 -\$45 5.5 \$51	\$170 \$200 2.5 -\$361 -\$288 3.5 -\$224 -\$121 4.8 -\$45 \$96 5.5 \$51 \$213	2.5 -\$361 -\$288 -\$91 3.5 -\$224 -\$121 \$154 4.8 -\$45 \$96 \$473 5.5 \$51 \$213 \$645	\$170 \$200 \$280 \$270 2.5 -\$361 -\$288 -\$91 -\$116 3.5 -\$224 -\$121 \$154 \$120 4.8 -\$45 \$96 \$473 \$426 5.5 \$51 \$213 \$645 \$591				

Variable Costs



Historic Prices and Trends



Machinery Costs

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	3.44	4.25
spray	5	3.17	2.10
harvest#	1	9.67	5.71
TOTAL		16.28	12.06

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

Feed Barley

Gross Margin

INCOME										YOUR
			Rainfall 2	Zone	LOW		MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)					\$260		\$260		\$260	
Quality	BAR 1									
Yield (t/ha)					1.8		3.2		4.8	
GROSS INCOME					\$468		\$832		\$1,248	
						5		5	_	
VARIABLE COSTS	Cost			Rate/ha Low	\$/ha	Rate/ha Medium	\$/ha	Rate/ha	\$/ha	
Seed	COSI			LOW	φ/1 ια	Medium	ФЛІА	High	φ/1 ια	
Seed	\$0.31	/kg	@	60	\$18.60	75	\$23.25	80	\$24.80	
Seed Treatment(1)	\$0.05	/kg	@	60	\$2.76	7.5	Ψ20.20	00	Ψ24.00	
Seed Treatment(2)	\$0.03	_	@	00	φ2.70	75	\$27.23	80	\$29.05	
· ,		•	@	60	\$6.29	75 75	\$7.86	80	\$8.38	
Seed Treatment(3)	\$10.48	/100kg	W	60	\$6.29	75	\$7.80	80	\$8.38	
Levies	4.00/	0			Φ4.00		Φ0.00		040.40	
GRDC Levies	1.0%	Gross Inc			\$4.68		\$8.32		\$12.48	
EPR & state levies	\$2.50	/tonne so	iiu		\$4.50		\$8.00		\$12.00	
Fertiliser (Bulk)	.				450.5	=0	001.5			
18:20:0	\$1,300		@	45	\$58.50	70	\$91.00	100	\$130.00	
Urea	\$1,500	/tonne	@	50	\$75.00	100	\$150.00	200	\$300.00	
Chemicals-Herbicides										
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents										
Trifluralin 480g/L	\$8.00	/litre	@	1.5	\$12.00		\$0.00		\$0.00	
Tri-allate 500g/L	\$12.80	/litre	@	1.6	\$20.48					
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Boxer Gold	\$10.60	/litre	@		\$0.00	2.5	\$26.50	2.5	\$26.50	
Post-emergents										
M.C.P.A. LVE	\$15.30	/litre	@	0.5	\$7.65	0.5	\$7.65	0.5	\$7.65	
Metsulfuron methyl(4)	\$0.07	/gm	@	5	\$0.42					
Clopyralid 300g/L	\$42.00	/kg	@	0.075	\$3.15					
Paradigm® (4)	\$0.52	/gm	@		,	25	\$16.66	25	\$16.66	
Fungicides	****	, 3					*		V	
Cogito	\$23.75	/litre	@	0.25	\$5.94		\$0.00	0.25	\$5.94	
Amistar Xtra	\$36.23	/litre	@	0.20	Ψ0.01	0.4	\$14.49	0.4	\$14.49	
Operations	Ψ00.20	,,,,,,	•			0.4	Ψ17.73	0.7	Ψ17.43	
Fuel & Oil					\$12.06		\$14.47		\$16.89	
Repairs & Maintenance					\$16.28		\$19.53		\$22.79	
riopans a mantenance					ψ10.20		ψ19.03		ΨΖΖ.19	
Freight										
Grain (t)	\$25.00	/tonne	@	1.8	\$45.00	3.2	\$80.00	4.8	\$120.00	
Fertiliser (t)		/tonne	@	0.10	\$2.38	0.17	\$4.25	0.30	\$7.50	
i Grunser (t)	φ25.00	/ LOT II IC	w	0.10	φ2.30	0.17	φ4.20	0.30	φ1.50	
Contract Work										
Aerial spraying	\$15.00	/ha	@	0	\$0.00	1	\$15.00	1	\$15.00	
Urea spreading	\$8.50		@		\$0.00	1	\$8.50	2	\$17.00	
Insurance		/\$1000	@		\$4.21		\$7.49		\$11.2	
Other										
TOTAL VARIABLE COS	TQ				\$264		¢ 504		¢050	
GROSS MARGIN/hecta					\$361 \$107		\$591 \$241		\$859 \$389	
Break Even Price (to co		costs only	٨		\$107 \$200		\$241 \$185		\$179	
Break Even Yield (to co										
					1.39		2.27		3.31	
Gross Margin based on	nast o year a	verage pr	ice		\$116		\$257		\$413	

Assumes barley follows wheat.

Having to windrow barley will reduce GM by around \$25/ha.

- (2) Systiva Seed Dressing.(3) Aphid Control.
- (4) Includes surfactant and/or oil.

AGRONOMIC NOTES

Urea may not be required following a legume pasture or grain legume

⁽¹⁾ Seed cleaning plus Smuts and bunts.

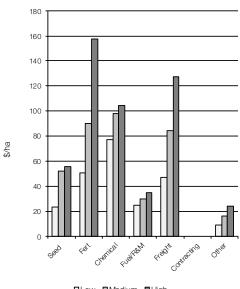
LOW RAINFALL								
Price \$/t								
\$200 \$260 \$300								
ተበ10	Φ400	Φ1 CO						

	Net Price \$/t									
		\$150	\$200	\$260	\$300	\$350				
	0.5	-\$243	-\$218	-\$189	-\$169	-\$145				
Yield	1.2	-\$159	-\$100	-\$29	\$18	\$77				
t/ha	1.8	-\$87	\$1	\$107	\$178	\$266				
	2.5	-\$3	\$119	\$266	\$365	\$487				
	3.5	\$116	\$288	\$494	\$631	\$803				

		MEDIUM RAINFALL								
	Net Price \$/t									
		\$150	\$200	\$260	\$300	\$350				
	1	-\$368	-\$319	-\$260	-\$221	-\$172				
Yield	2	-\$248	-\$150	-\$32	\$46	\$144				
t/ha	3.2	-\$105	\$52	\$241	\$366	\$523				
	4	-\$9	\$187	\$423	\$580	\$776				
	5	\$111	\$356	\$650	\$847	\$1,092				
				HIGH RAINE	ΔΙΙ					

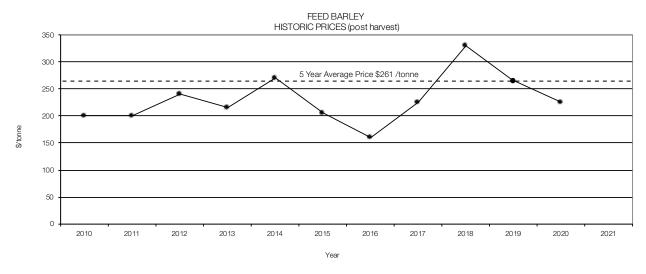
			HIGH RAINFALL							
		N	let Price \$/	⁄t						
		\$150	\$200	\$260	\$300	\$350				
	2.5	-\$405	-\$282	-\$135	-\$37	\$86				
Yield	3.5	-\$285	-\$113	\$93	\$230	\$402				
t/ha	4.8	-\$129	\$106	\$389	\$577	\$812				
	5.5	-\$46	\$224	\$548	\$764	\$1,034				
	6.5	\$74	\$393	\$776	\$1,031	\$1,349				

Variable Costs



□Low ■Medium ■High

Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

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

Onevetion	N-	Danaina 9 Maint	Fuel
Operation	No.	Repairs & Maint	ruei
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	5	3.17	2.10
harvest#	1	9.67	5.71
TOTAL		16.28	12.06

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

Milling Oats

Gross Margin

										2022
NCOME			Daimfall	7	LOW		MEDIUM		HOLL	YOUR
Price (20/21 Forecast)			Rainfall 2	zone	\$275		\$275		#IGH \$275	ESTIMATE
Quality	Milling				φ213		Φ213		Φ2/3	
Yield (t/ha)	IVIIIII IG				1.5		2.8		4	
GROSS INCOME					\$413		\$770		\$1,100	
GROSS INCOME					9413		\$110		\$1,100	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha	1	
VALUE GOOTG	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed	0001			2011	Ψ//Ια	· · · · · · · · · · · · · · · · · · ·	Ψ/1.6	9	Ψ/1.00	
Seed	\$0.30	/ka	@	50	\$15.00	65	\$19.50	80	\$24.00	
Seed Treatment (1)	\$0.05	-	@	50	\$2.30	65	\$2.99	80	\$3.68	
Seed Treatment (2)	\$10.48	•	@		Ψ2.00	65	\$6.81	80	\$8.38	
Levies	Ψ10.10	7100Ng	•			00	ψ0.01	00	ψο.οο	
GRDC Levies	1.0%	Gross Inc	nme		\$4.13		\$7.70		\$11.00	
EPR & state levies		/tonne so			\$3.75		\$7.00		\$10.00	
Fertiliser (Bulk)	Ψ2.00	71011110 001	u .		ψ0.10		Ψ1.00		Ψ10.00	
18:20:0	\$1,300	/tonne	@	40	\$52.00	60	\$78.00	80	\$104.00	
Urea	\$1,500		@	50	\$75.00	100	\$150.00	180	\$270.00	
Chemicals-Herbicides	Ψ1,000	/101110	•	00	Ψ10.00	100	Ψ100.00	100	Ψ270.00	
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents		various	7 410 44		Ψ+0.00		Ψ+0.00		φ40.00	
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Dual Gold	\$19.00	/litre	@	0.02	\$9.50	0.02	\$9.50	0.02	\$9.50	
Diuron	\$18.75		@	0.3	\$7.50	0.4	\$7.50	0.4	\$7.50	
Post-emergents	Ψ10.73	/kg	•	0.4	Ψ1.50	0.4	Ψ1.50	0.4	Ψ1.50	
MCPA Amine	\$14.00	/litro	@	0.5	\$7.00	0.5	\$7.00	0.5	\$7.00	
Fungicides	\$14.00	/IIII E	@	0.5	φ1.00	0.5	\$7.00	0.5	\$7.00	
Tebuconazole	\$21.40	/litro	@	0.145	\$3.10	0.145	\$3.10	0.145	\$3.10	
Operations	Ψ21.40	/11116	•	0.140	ψ0.10	0.140	ψ3.10	0.140	Ψ3.10	
Fuel & Oil					\$12.48		\$14.98		\$17.47	
Repairs & Maintenance					\$16.91		\$20.29		\$23.68	
nepairs a ivialitie laite					φ10.91		φ20.29		φ23.00	
Freight										
Grain (t)	\$25.00	/tonne	@	1.5	\$37.50	2.8	\$70.00	4.0	\$100.00	
Fertiliser (t)	\$25.00		@	0.09	\$2.25	0.16	\$4.00	0.26	\$6.50	
i oranioor (i)	Ψ20.00	, 1011110	₩	0.00	ΨΖ.ΖΟ	0.10	φ4.00	0.20	φυ.συ	
Contract Work										
Aerial spraying										
Urea spreading	\$8.50	/ha	@		\$0.00	1	\$8.50	2	\$17.00	
Insurance		/\$1000	@		\$3.71	1	\$6.93	۷	\$9.90	
Other	ψ3.00	, ψ ι Ο Ο Ο	₩		ψυ.11		φυ.33		ψ3.30	
Culoi										
TOTAL VARIABLE COS	TS			1	\$313		\$485		\$694	
GROSS MARGIN/hecta	re				\$99		\$285		\$406	
Break Even Price (to co	over variable	costs only)		\$209	_	\$173		\$173	
Break Even Yield (to co					1.14		1.76		2.52	
Gross Margin based on					\$437		\$915		\$1,306	

COMMENTSAssumes oats follows a cereal. If following a legume less N will be required.
(1) Seed cleaning plus Smuts and bunts.
(2) Aphid treatment.

AGRONOMIC NOTES

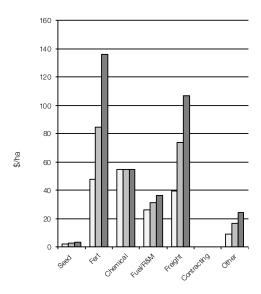
LOW RAINFALL

	Net Price \$/t									
	\$150 \$200 \$275 \$300 \$350									
	0.5	-\$204	-\$180	-\$143	-\$131	-\$106				
Yield	1.5	-\$85	-\$11	\$99	\$136	\$210				
t/ha	2.5	\$35	\$158	\$342	\$403	\$526				
	3.5	\$155	\$326	\$584	\$670	\$841				

		MEDIUM RAINFALL							
Net Price \$/t									
		\$150	\$200	\$275	\$300	\$350			
	2	-\$154	-\$56	\$91	\$140	\$239			
Yield	2.8	-\$58	\$79	\$285	\$354	\$491			
t/ha	4	\$85	\$282	\$576	\$674	\$870			
	5	\$205	\$450	\$818	\$941	\$1,186			
				HIGH BAINE	VI I				

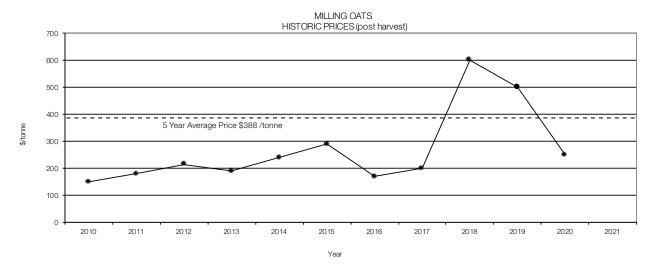
			HIGH HAINFALL							
Net Price \$/t										
		\$150	\$200	\$275	\$300	\$350				
	2	-\$324	-\$225	-\$78	-\$29	\$69				
Yield	3	-\$204	-\$57	\$164	\$238	\$385				
t/ha	4	-\$84	\$112	\$406	\$504	\$701				
	5	\$35	\$281	\$640	\$771	\$1.016				

Variable Costs



□Low ■Medium ■High

Historic Prices and Trends



Machinery Costs

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	3.44	4.25
spray	6	3.80	2.52
harvest#	1	9.67	5.71
TOTAL		16.91	12.48

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

Triticale

Gross Margin

INCOME										YOUR
			Rainfall 2	Zone	LOW		MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)					\$250		\$250		\$250	
Quality										
Yield (t/ha)					1.4		2.6		3.7	
GROSS INCOME					\$350		\$650		\$925	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Seed	\$0.30	/kg	@	60	\$18.00	80	\$24.00	85	\$25.50	
Seed Treatment	\$0.05	/kg	@	60	\$2.76	80	\$3.68	85	\$3.91	
Levies										
GRDC Levies	1.0%	Gross Inc	come		\$3.50		\$6.50		\$9.25	
EPR & state levies	\$3.00	/tonne so	old		\$4.20		\$7.80		\$11.10	
Fertiliser (Bulk)									-	
18:20:0	\$1,300	/tonne	@	40	\$52.00	60	\$78.00	80	\$104.00	
Urea	\$1,500		@	50	\$75.00	100	\$150.00	150	\$225.00	
Chemicals-Herbicides	Ψ1,000	, 101110			Ψ, υ.υυ	. 50	ψ100.00	100	Ψ220.00	
Summer Weed Control		Various	Allow	1	\$40.00		\$40.00		\$40.00	
Pre-emergents		various	Allow		ψ40.00		ψ40.00		Ψ40.00	
Trifluralin 480g/L	\$8.00	/litre	@	1.5	\$12.00	1.5	\$12.00	1.5	\$12.00	
_		/litre	@	1.2		1.2		1.2		
Glyphosate 540	\$15.00			1	\$18.00		\$18.00		\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Tri-allate 500g/L	\$12.80	/litre	@		\$0.00	1.6	\$20.48	1.6	\$20.48	
Post-emergents	4		_							
MCPA LVE	\$15.30	/litre	@	0		0.5	\$7.65	0.5	\$7.65	
MCPA amine	\$14.00	/litre	@	0.5	\$7.00		\$0.00		\$0.00	
Metsulfuron methyl(1)	\$0.07	./gm	@	5	\$0.42	5	\$0.42	5	\$0.42	
Clopyralid 300g/L	\$42.00	/litre	@	0.04	\$1.68	0.04	\$1.68	0.04	\$1.68	
Fungicides									-	
Operations										
Fuel & Oil				1	\$12.48		\$14.98		\$17.47	
Repairs & Maintenance					\$16.91		\$20.29		\$23.68	
Freight									-	
Grain (t)	\$25.00		@	1.4	\$35.00	2.6	\$65.00	3.7	\$92.50	
Fertiliser (t)	\$25.00	/tonne	@	0.09	\$2.25	0.16	\$4.00	0.23	\$5.75	
Contract Work									-	
Aerial spraying										
Urea spreading	\$8.50	/ha	@	1	\$0.00	1	\$8.50	2	\$17.00	
Insurance	\$9.00	/\$1000	@	1	\$3.15		\$5.85		\$8.33	
Other										
TOTAL VARIABLE COST	~				\$307		\$492		\$647	
GROSS MARGIN/hectar	_	-			\$43		\$158		\$278	
Break Even Price (to co	ver variable	costs only	y)		\$220		\$189		\$175	
Break Even Yield (to co	ver variable	costs only	/)		1.23		1.97		2.59	
Gross Margin based on	last 5 year a	Vorago pr	ioo		\$71		\$210		\$352	

COMMENTS
This rate of fertiliser assumes triticale follows a cereal.
(1) Surfactant at 0.1%.

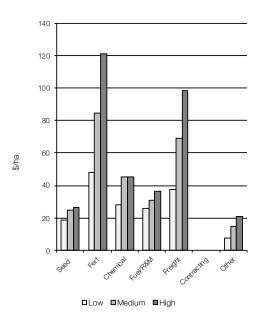
AGRONOMIC NOTES

					LOW RAINE	ALL				
	Net Price \$/t									
		\$180	\$220	\$250	\$300	\$340				
	0.5	-\$187	-\$168	-\$153	-\$128	-\$109				
Yield	1	-\$113	-\$74	-\$44	\$5	\$44				
t/ha	1.4	-\$53	\$1	\$43	\$111	\$166				
	2	\$36	\$114	\$173	\$271	\$350				
	3	\$184	\$302	\$390	\$537	\$655				
	MEDILIM RAINEALI									

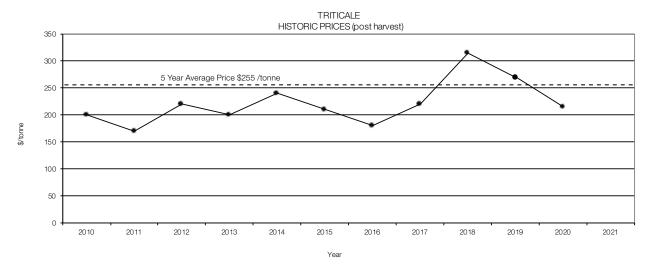
			N	NEDIUM KAI	NFALL				
		Ne	t Price \$/t						
		\$180	\$220	\$250	\$300	\$340			
	1	-\$258	-\$219	-\$189	-\$140	-\$101			
Yield	1.6	-\$169	-\$106	-\$59	\$19	\$82			
t/ha	2.6	-\$20	\$82	\$158	\$286	\$388			
	3.2	\$69	\$194	\$289	\$445	\$571			
	4	\$188	\$345	\$462	\$659	\$815			
	HIGH RAINFALL								

	111-211111111111								
	Net Price \$/t								
		\$180	\$220	\$250	\$300	\$340			
	1.5	-\$303	-\$244	-\$200	-\$126	-\$67			
Yield	2.5	-\$154	-\$56	\$18	\$140	\$238			
t/ha	3.7	\$24	\$169	\$278	\$460	\$605			
l -	4.5	\$143	\$320	\$452	\$673	\$849			
	5.5	\$292	\$507	\$669	\$939	\$1,155			

Variable Costs



Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

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

<u> </u>	-	Teclation and other owner	
Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	6	3.80	2.52
harvest#	1	9.67	5.71
TOTAL		16.91	12.48

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

Export Oaten Hay

Gross Margin

INCOME										YOUR
D: (04/00 E)) (4)			Rainfall 2	Zone	LOW	•	MEDIUM		HIGH	ESTIMATE
Price (21/22 Forecast) (1)					\$290		\$265		\$230	
Quality	Mixed grade	es							_	
Yield (t/ha)					3.20		5.50		8	
GROSS INCOME					\$928		\$1,458		\$1,840	
VARIABLE COSTS				Rate/ha		Rate/ha	-	Rate/ha	-	
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed							-			
Levies										
Seed	\$500.00	/tonne	@	90	\$45.00	110	\$55.00	130	\$65.00	
Seed Treatment	\$0.00	/tonne	@			0	\$0.00	0	\$0.00	
Fertiliser (Bulk)									-	
18:20:0	\$1.300	/tonno	@	60	\$78.00	80	\$104.00	110	\$143.00	
16.20.0 Urea	\$1,500		@	30	\$ 45.00	75	\$104.00	150	\$225.00	
OlGa	φ1,500	/ LOT II IE	₩	30	Ψ 45.00	13	φ112.30	150	φ223.00	
Chemicals-Herbicides									-	
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents										
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Post-emergents										
Diuron	\$18.75	/Kg	@	0.4	\$7.50	0.4	\$7.50	0.4	\$7.50	
MCPA Amine	\$14.00	/litre	@	0.5	\$7.00	0.5	\$7.00	0.5	\$7.00	
Pre cutting-Glypho (1)	\$15.00	/litre	@	2	\$30.00	2.5	\$37.50	2.5	\$37.50	
Insecticides										
Fungicides										
Propiconazole 250g/L	\$12.50	/litre	@	0.35	\$4.38	0.35	\$4.38	0.35	\$4.38	
Operations										
Fuel & Oil					\$8.66		\$9.53		\$10.40	
Repairs & Maintenance					\$9.46		\$10.41		\$11.36	
Freight									-	
Hay	\$30.00	/tonne	@	3.2	\$96.00	5.5	\$165.00	8.0	\$240.00	
Fertiliser (t)	\$25.00		@	0.09	\$2.25	0.16	\$3.88	0.26	\$6.50	
Combined Moule										
Contract Work	\$50.00	/ho	@	1.0	\$50.00	1.0	\$50.00	1.0	\$50.00	
Hay mowing		/na /ha	@	-		1.0		1.0	\$50.00	
Super Conditioner	\$0.00 \$25.00	/na /bale	@	1.0	\$25.00 \$110.34	1.0 5.5	\$30.00 \$189.66	8.0	\$35.00	
Hay baling			@	_		5.5 5.5		8.0 8.0		
Hay Accumulation Insurance	\$3.00 \$2.50	/bale /\$1000	@	3.2	\$13.24 \$2.32	5.5	\$22.76 \$3.64	8.0	\$33.10 \$4.60	
					456					
TOTAL VARIABLE COSTS GROSS MARGIN/hectare					\$595 \$333		\$874 \$584		\$1,217 \$623	
Break Even Price (to cover variable costs only)					\$186		\$159		\$152	
Break Even Yield (to cover variable costs only)				2.05		3.30		5.29		
oreak Even Held (to cov		verage pri			\$205		\$501		\$783	

COMMENTS

(1) Prices include on-farm shed storage premiums.

AGRONOMIC NOTES

LOW RAINFALL

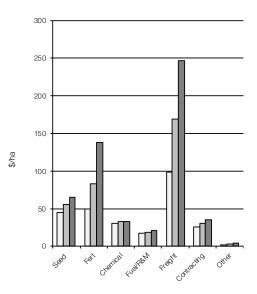
Net Price \$/t									
		\$250	\$270	\$290	\$310	\$330			
	1.5	-\$102	-\$72	-\$42	-\$12	\$18			
Yield	2.5	\$79	\$129	\$178	\$228	\$278			
t/ha	3.2	\$205	\$269	\$333	\$397	\$461			
	4.5	\$440	\$530	\$620	\$709	\$799			
MEDIUM RAINFALL									

		WEDIOW HAINFALL							
	Net Price \$/t								
		\$225	\$245	\$265	\$285	\$305			
	2	-\$181	-\$141	-\$101	-\$61	-\$21			
Yield	3.5	\$53	\$123	\$192	\$262	\$332			
t/ha	5.5	\$364	\$474	\$584	\$693	\$803			
	7.5	\$676	\$826	\$975	\$1,125	\$1,274			

HIGH RAINFALL

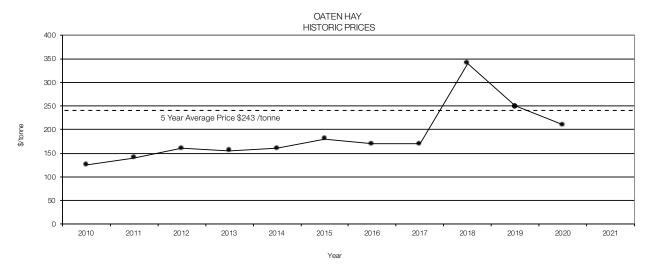
	Net Price \$/t									
		\$190	\$210	\$230	\$260	\$290				
	4	-\$180	-\$100	-\$20	\$99	\$219				
Yield	6	\$62	\$182	\$301	\$481	\$660				
t/ha	8	\$304	\$463	\$623	\$862	\$1,102				
	10	\$545	\$745	\$944	\$1,244	\$1,543				

Variable Costs



□Low ■Medium ■High

Historic Prices and Trends



Machinery Costs

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	3.44	4.25
spray	6	3.80	2.52
roll	1	2.22	1.89
TOTAL		9.46	8.66

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

Grain Vetch

Gross Margin

INIOONE										2022
INCOME			Rainfall 2	one	LOW		MEDIUM		HIGH	YOUR ESTIMATE
Price (20/21 Forecast)			naman 2	-one	\$500		\$500		\$500	LOTIMATE
Quality	Morava veto	ch								
Yield (t/ha)					0.8		1.5		2.2	
GROSS INCOME					\$400		\$750		\$1,100	
VARIABLE COSTS				Rate/ha		Rate/ha	-	Rate/ha		
VARIABLE COSTS	Cost			Low	\$/ha	Medium	\$/ha		\$/ha	
Seed	COSI			LOW	φ/1 ια	Medium	φ/1 ια	High	φ/ια	
Seed	\$0.70	/ka	@	30	\$21.00	40	\$28.00	50	\$35.00	
Seed Inoculant	\$0.05	-	@	30	\$1.50	40	\$2.00	50	\$2.50	
Levies	ψ0.00	/Ng		00	Ψ1.00	40	Ψ2.00	00	Ψ2.00	
GRDC Levies	1.0%	Gross Inc	ome		\$4.00		\$7.50		\$11.00	
CITIDO ECVICO	1.070	CIOSS IIIC	onic		φ4.00		Ψ1.00		Ψ11.00	
Fertiliser (Bulk)										
MAP	\$1,300	/tonne	@	40	\$52.00	60	\$78.00	80	\$104.00	
Chemicals-Herbicides										
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents		various	7 410 44		Ψ+0.00		Ψ+0.00		φ+0.00	
Metribuzin 750 gm/kg	\$43.00	/kg	@	0.2	\$8.60	0.25	\$10.75	0.3	\$12.90	
Trifluralin 480g/L	\$8.00	/litre	@	1.5	\$12.00	2	\$16.00	2	\$16.00	
Tri-allate 500g/L	\$12.80		@	1.0	\$0.00	1.6	\$20.48	1.6	\$20.48	
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Post-emergents	Ψ140.00	/IIIIO	•	0.02	Ψ2.55	0.02	Ψ2.55	0.02	Ψ2.55	
Cletho 360g/L(incOil)	\$19.40	/litre	@	0.33	\$10.06	0.33	\$10.06	0.33	\$10.06	
Haloxyfop 520g/L	\$46.95	/litre	@	0.04	\$1.88	0.04	\$1.88	0.00	Ψ10.00	
Factor	\$0.13	/gm	@	0.01	Ψ1.00	0.01	Ψ1.00	180	\$23.40	
Paraquat 250 (Topping)	\$8.00	/litre	@	0.8	\$6.40	0.8	\$6.40	0.8	\$6.40	
Insecticides	ψο.σσ	711110	•	0.0	φο. το	0.0	φο. 10	0.0	Ψ0.10	
Dimethoate (1)	\$16.50	/litre	@	0.4	\$6.60	0.4	\$6.60	0.4	\$6.60	
Karate Zeon® (2)	\$98.00	/litre	@	0.024	\$2.35	0.024	\$2.35	0.024	\$2.35	
Operations	Ψ00.00	711.10	Ü	0.02	Ψ2.00	0.02	Ψ2.00	0.02	Ψ2.00	
Fuel & Oil					\$16.39		\$19.67		\$22.95	
Repairs & Maintenance					\$29.40		\$35.28		\$41.16	
					*=****		****		*	
Freight										
Grain (t)	\$30.00	/tonne	@	0.8	\$24.00	1.5	\$45.00	2.2	\$66.00	
Fertiliser (t)	\$25.00	/tonne	@	0.04	\$1.00	0.06	\$1.50	0.08	\$2.00	
Contract Work										
Contract Work Aerial spraying										
Acidi Spraying										
Insurance	\$12.00	/\$1000	@		\$4.80		\$9.00		\$13.20	
Other										
TOTAL VARIABLE COST	re				\$263		\$361		\$457	
GROSS MARGIN/hectar					\$263 \$137		\$389		\$643	
Break Even Price (to co		costs only	Λ		\$329		\$241		\$208	
Break Even Yield (to cover variable costs only)					0.53		0.72		0.91	
Gross Margin based on					\$297		\$689		\$1,083	

COMMENTS AGRONOMIC NOTES

LOW RAINFALL

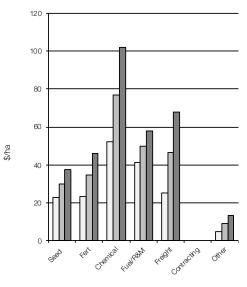
Net Price \$/t									
		\$400	\$500	\$500	\$700	\$800			
	0.3	-\$122	-\$92	-\$92	-\$34	-\$4			
Yield	0.8	\$59	\$137	\$137	\$294	\$372			
t/ha	1.2	\$203	\$321	\$321	\$555	\$673			
	2	\$492	\$688	\$688	\$1,079	\$1,275			
	MEDIUM RAINFALL								

		IVIEDIOWI NAINFALL							
	Net Price \$/t								
		\$400	\$500	\$500	\$700	\$800			
	0.5	-\$119	-\$70	-\$70	\$27	\$76			
Yield	1	\$61	\$159	\$159	\$355	\$452			
t/ha	1.5	\$242	\$389	\$389	\$682	\$829			
	2.5	\$603	\$848	\$848	\$1,337	\$1,581			

		HIGH RAIN	ALL
Net	Price \$/	t	
4	4 1	4	

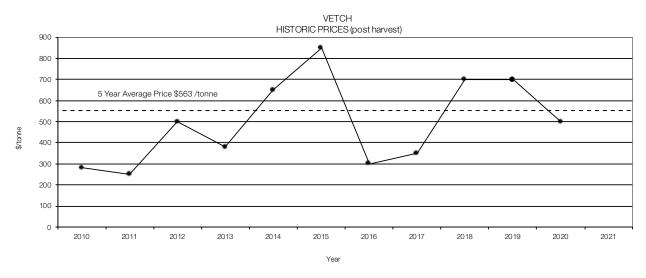
			iet Filce ø/	· L		
		\$400	\$500	\$500	\$700	\$800
	0.8	-\$78	\$0	\$0	\$157	\$235
Yield	1.5	\$175	\$322	\$322	\$615	\$762
t/ha	2.2	\$428	\$643	\$643	\$1,073	\$1,288
	3	\$717	\$1,010	\$1,010	\$1,597	\$1,890

Variable Costs



□Low ■Medium ■High

Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

			
Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	8	5.07	3.36
roll	1	2.22	1.89
harvest#	1	18.67	6.89
TOTAL		29.40	16.39

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

Lupins

Gross Margin

INCOME										YOUR
			Rainfall 2	Zone	LOW		MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)					\$350		\$350		\$350	
Quality									-	
Yield (t/ha)					1		1.7		2.4	
GROSS INCOME					\$350		\$595		\$840	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha	· •	
VALUE GOOTG	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed	0001			2011	Ψ	modiam	Ψ/1Ια	9	ψ//.ω	
Seed	\$0.41	/ka	@	90	\$36.90	90	\$36.90	90	\$36.90	
Seed Inoculant	\$0.05	•	@	90	\$4.50	90	\$4.50	90	\$4.50	
Seed Treatment(1)	\$13.10	-	@	90	\$11.79	90	\$11.79	90	\$11.79	
Levies	Ψ13.10	/100kg	•	90	Ψ11.73	30	Ψ11.79	30	Ψ11.79	
GRDC Levies	1.0%	Gross Inc	000		\$3.50		\$5.95		\$8.40	
GRDC Levies EPR &state levies	\$2.80				\$3.50		\$5.95 \$4.76		\$8.40 \$6.72	
	Φ∠.80	/tonne so	iu		\$∠.80		\$4.76		\$0.72	
Fertiliser (Bulk)	Φ4 OCO	/t.a.mi		40		60	Ф 7 0.00	00	010100	
MAP	\$1,300	/tonne	@	40	52	60	\$78.00	80	\$104.00	
Chemicals-Herbicides									-	
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents										
Trifluralin 480g/L	\$8.00	/litre	@	1.5	\$12.00				-	
Propyzamide	\$45.00		@		*	1	\$45.00	1	\$45.00	
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Simazine Granules	\$8.50	/kg	@	0.83	\$7.06	0.83	\$7.06	0.83	\$7.06	
Carfentrazone 400g/L	\$149.50	-	@	0.03	\$2.99	0.03	\$2.99	0.03	\$2.99	
Post-emergents	φ1+0.00	/IIIIC	•	0.02	Ψ2.55	0.02	Ψ2.00	0.02	Ψ2.55	
Cletho 360g/L(incOil)	\$19.40	/litre	@	0.33	\$10.06	0.33	\$10.06	0.33	\$10.06	
Haloxyfop 520g/L	\$46.95	/litre	@	0.04	\$1.88	0.04	\$1.88	0.00	Ψ10.00	
Factor	\$0.13	/gm	•	0.01	Ψ1.00	0.01	Ψ1.00	180	\$23.40	
Paraquat 250 (Topping)		/litre	@	0.8	\$6.40	0.8	\$6.40	0.8	\$6.40	
Insecticides	\$6.00	/IIII E	•	0.6	φ0.40	0.0	φ0.40	0.0	φ0.40	
	\$32.50	/litro	@	0.04	\$1.30	0.04	¢1.00	0.04	\$1.30	
Talstar (2)		/litre	@ @				\$1.30			
Karate Zeon® (3)	\$98.00	/litre	w	0.024	\$2.35	0.024	\$2.35	0.024	\$2.35	
Operations					04440		040.00		040.00	
Fuel & Oil					\$14.16		\$16.99		\$19.82	
Repairs & Maintenance					\$21.89		\$26.26		\$30.64	
Freight	000.00	4		1	ФСС СС	4 -	ΦE 1 00	0.4	ф 7 0.00	
Grain (t)		/tonne	@	1.0	\$30.00	1.7	\$51.00	2.4	\$72.00	
Fertiliser (t)	\$25.00	/tonne	@	0.04	\$1.00	0.06	\$1.50	0.08	\$2.00	
Contract Work										
Aerial spraying		/ha	@		\$0		\$0.00		\$0.00	
nsurance	\$10.00	/\$1000	@		\$3.50		\$5.95		\$8.40	
Other										
TOTAL VARIABLE COST	s			1	\$284		\$379		\$462	
GROSS MARGIN/hectar					\$66		\$216		\$378	
Break Even Price (to co		costs only	/)		\$284		\$223		\$192	
Break Even Yield (to cov					0.81		1.08		1.32	
Gross Margin based on I					\$166		\$386		\$618	

COMMENTS
(1) Seed treatment for aphid control for controlling viruses.
(2) RLEM.
(3) Native budworm.
Do not exceed 800ml/Ha when crop topping with Paraquat 250 to avoid any possible residue issues.

AGRONOMIC NOTES

LOW RAINFALL

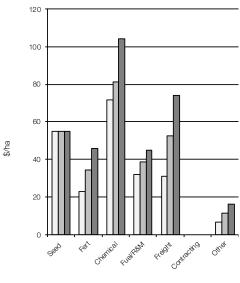
	Net Price \$/t									
		\$300	\$350	\$350	\$450	\$500				
	0.5	-\$114	-\$89	-\$89	-\$40	-\$16				
Yield	1	\$17	\$66	\$66	\$164	\$213				
t/ha	1.5	\$148	\$221	\$221	\$368	\$442				
	2	\$278	\$376	\$376	\$572	\$670				
	MEDI IM DAINEAL									

			MEDIUM RAINFALL							
	Net Price \$/t									
		\$300	\$350	\$350	\$450	\$500				
	0.5	-\$180	-\$156	-\$156	-\$107	-\$82				
Yield	1	-\$50	-\$1	-\$1	\$97	\$146				
t/ha	1.7	\$133	\$216	\$216	\$383	\$466				
	2	\$211	\$309	\$309	\$505	\$603				

HIGH RAINFALL

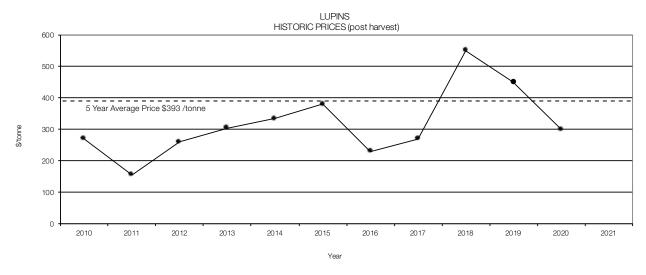
	Net Price \$/t										
		\$300	\$350	\$350	\$450	\$500					
	1	-\$105	-\$56	-\$56	\$42	\$91					
Yield	1.5	\$26	\$99	\$99	\$246	\$320					
t/ha	2.4	\$261	\$378	\$378	\$613	\$731					
	3	\$417	\$564	\$564	\$858	\$1,005					

Variable Costs



□Low ■Medium ■High

Historic Prices and Trends



Machinery Costs

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	3.44	4.25
spray	8	5.07	3.36
harvest#	1	13.37	6.54
TOTAL		21.89	14.16

 $^{\#\}operatorname{Rates}$ are for low rainfall zone. Extra cost in higher yielding situations

Red Lentils

Gross Margin

INCOME			Rainfall	7one	LOW		MEDIUM		HIGH	YOUR ESTIMATI
Price (20/21 Forecast)			naman i	Lone	700		\$700		\$700	LOTIMATI
Quality	LR Jumbo2						*****		-	
Yield (t/ha)					0.9		1.7		2.5	
GROSS INCOME					\$630		\$1,190		\$1,750	
ARIABLE COSTS				Rate/ha	-	Rate/ha		Rate/ha		
VANIABLE COSTS	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Seed	\$1.00	/ka	@	45	\$45.00	50	\$50.00	55	\$55.00	
Seed Inoculant	\$0.05	-	@	45	\$2.25	50	\$2.50	55	\$2.75	
P-Pickel	\$68.00	-			\$0.00	50	\$3.40	55	\$3.74	
Levies	******				40.00		*****		-	
GRDC Levies	1.0%	Gross Inc	ome		\$6.30		\$11.90		\$17.50	
EPR &state levies	\$6.00				\$5.40		\$10.20		\$15.00	
Fertiliser (Bulk)	φο.σσ	71011110 00	ia		φο. το		Ψ10.20		Ψ10.00	
MAP	\$1,300	/toppo	@	40	\$52.00	50	\$65.00	60	\$78.00	
WAP	φ1,300	/torine	w	40	φ32.00	50	φ03.00	00	\$70.00	
Chemicals-Herbicides									-	
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents									-	
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Propyzamide	\$45.00	/litre	@	1	\$45.00	1	\$45.00	1	\$45.00	
Metribuzin 750 gm/kg	\$43.00		@	0.18	\$7.74	0.24	\$10.32	0.3	\$12.90	
Post-emergents	Ψ40.00	/kg	•	0.10	Ψ1.14	0.24	Ψ10.52	0.0	Ψ12.90	
•	\$45.00	/litus	@	0.15	\$6.75	0.15	\$6.75	0.15	\$6.75	
Diflufenican			@	0.15				0.15	_	
Cletho 360g/L(incOil)	\$19.40	/litre		0.33	\$10.06	0.33	\$10.06	0.33	\$10.06	
Haloxyfop 520g/L	\$46.95	/litre	@	0.04	\$1.88	0.04	\$1.88	400	000.40	
Factor	\$0.13	/gm			40.40			180	\$23.40	
Paraquat 250 (Topping)	\$8.00	/litre	@	8.0	\$6.40	8.0	\$6.40	0.8	\$6.40	
Insecticides										
Dimethoate (1)	\$16.50	/litre	@	0.4	\$6.60	0.4	\$6.60	0.4	\$6.60	
Karate Zeon® (2)	\$98.00		@	0.024	\$2.35	0.024	\$2.35	0.024	\$2.35	
Karate Zeon® (3)	\$98.00	/litre	@			0.024	\$2.35	0.024	\$2.35	
Trojan (4)	\$125.00	/litre	@	0.03	\$3.75	0.03	\$3.75	0.03	\$3.75	
Fungicides										
Chlorothalonil (5)	\$13.40	/litre	@			1.6	\$21.44	2.4	\$32.16	
Carbendazim (6)	\$13.55	/litre	@	0.5	\$6.78	1	\$13.55	1	\$13.55	
Procymidone (7)	\$20.00	/litre	@					0.5	\$10.00	
Operations									-	
Fuel & Oil					\$17.23		\$20.68		\$24.13	
Repairs & Maintenance					\$30.67		\$36.80		\$42.93	
Freight					, , , , , ,		,			
Grain (t)	\$35.00	/tonne	@	0.9	\$31.50	1.7	\$59.50	2.5	\$87.50	
Fertiliser (t)	\$25.00		@	0.04	\$1.00	0.05	\$1.25	0.06	\$1.50	
Contract Work	\$20.00		•	0.01	ψ1.00	5.50	Ψ1.20	0.00	Ψ1.03	
Aerial spraying									-	
Windrowing									-	
Insurance	\$12.00	/\$1000	@		\$7.56		\$14.28		\$21.00	
Other	φ12.00	7\$1000	•		φ1.50		φ14.20		φ21.00	
= :::=!										
TOTAL VARIABLE COST				•	\$357		\$467		\$585	
GROSS MARGIN/hectar					\$273		\$723		\$1,165	
Break Even Price (to co	ver variable	costs only	()		\$397		\$275		\$234	
Break Even Yield (to co	ver variable o	costs only)		0.51		0.67		0.84	
Gross Margin based on	last 5 year av	verage pr	ice		\$183		\$553		\$915	

COMMENTS

(1) Cow Pea and/or Blue Green Aphid.

(2) Native budworm. (3/4) Etiella. (5) Ascochyta.

(6/7) Grey mould.

Do not exceed 800ml/Ha Paraquat 250 when crop topping to avoid possible residues.

AGRONOMIC NOTES

Some varieties more sensitive to Metribuzin than others. Check newly released varieties for suitability to your area.

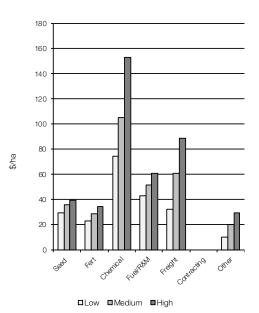
LOW RAINFALL

Net Price \$/t										
		\$400	\$500	\$700	\$700	\$800				
	0.3	-\$201	-\$172	-\$113	-\$113	-\$84				
Yield	0.9	\$9	\$97	\$273	\$273	\$361				
t/ha	1.1	\$79	\$186	\$402	\$402	\$509				
	1.5	\$219	\$366	\$659	\$659	\$806				
	MEDI IM DAINEAL									

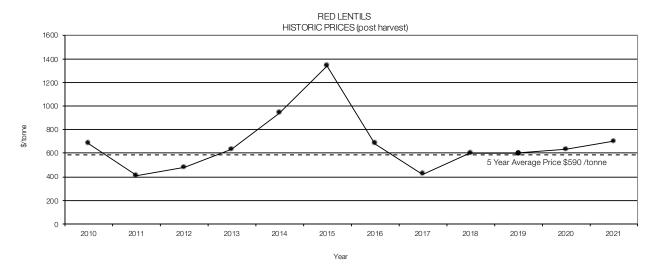
		MEDIUM RAINFALL								
	Net Price \$/t									
		\$400	\$500	\$700	\$700	\$800				
	0.8	-\$91	-\$13	\$144	\$144	\$222				
Yield	1.7	\$224	\$391	\$723	\$723	\$889				
t/ha	2.2	\$399	\$615	\$1,045	\$1,045	\$1,260				
	3	\$680	\$973	\$1,560	\$1,560	\$1,853				
HIGH PAINEALI										

				HIGH HAIN	FALL					
	Net Price \$/t									
		\$400	\$500	\$700	\$700	\$800				
	1.2	-\$24	\$93	\$328	\$328	\$445				
Yield	2	\$256	\$452	\$843	\$843	\$1,038				
t/ha	2.5	\$431	\$676	\$1,165	\$1,165	\$1,409				
_	3.5	\$781	\$1,124	\$1,808	\$1,808	\$2,151				

Variable Costs



Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
o poration			
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	10	6.34	4.20
roll	1	2.22	1.89
harvest#	1	18.67	6.89
TOTAL		30.67	17.23

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

Red Lentils Imi Tolerant

Gross Margin

INCOME										2022 YOUR
INCOME			Rainfall 2	Zone	LOW	•	MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)			naman 2	Lone	700	•	\$700		\$700	LOTIMATE
Quality	Small red- N	lipper type	9				ψ, σσ		ψ. σσ	
Yield (t/ha)					0.8		1.5		2.2	
GROSS INCOME					\$560		\$1,050		\$1,540	
					Ψοσο		ψ.,σσσ		Ψ1,010	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed					4		+			
Seed	\$1.00	/ka	@	35	\$35.00	40	\$40.00	45	\$45.00	
Seed Inoculant	\$0.05	•	@	35	\$1.75	40	\$2.00	45	\$2.25	
P-Pickel	\$68.00	-		0	\$0.00	40	\$2.72	45	\$3.06	
Levies					,					
GRDC Levies	1.0%	Gross Inc	ome		\$5.60		\$10.50		\$15.40	
EPR &state levies	\$6.00	/tonne so	ıld		\$4.80		\$9.00		\$13.20	
Fertiliser (Bulk)					·					
MAP	\$1,300	/tonne	@	40	\$52.00	50	\$65.00	60	\$78.00	
	,,,,,									
Chemicals-Herbicides										
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents										
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Propyzamide	\$45.00	/litre	@	1	\$45.00	1	\$45.00	1	\$45.00	
Metribuzin 750 gm/kg	\$43.00	/ka	@	0	\$0.00	0.24	\$10.32	0.3	\$12.90	
Post-emergents		. 3			,		,		,	
Intervix® (1)	\$31.00	/litre	@	0.75	\$23.25	0.75	\$23.25	0.75	\$23.25	
Cletho 360g/L(incOil)	\$19.40	/litre	@	0.33	\$10.06	0.33	\$10.06	0.33	\$10.06	
Haloxyfop 520g/L	\$46.95	/litre	@	0.04	\$1.88	0.04	\$1.88		,	
Factor	\$0.13	/gm			·			180	\$23.40	
Paraguat 205 (Topping)	\$8.00	/litre	@	0.8	\$6.40	0.8	\$6.40	0.8	\$6.40	
Insecticides					·					
Dimethoate (2)	\$16.50	/litre	@	0.4	\$6.60	0.4	\$6.60	0.4	\$6.60	
Karate Zeon® (3)	\$98.00	/litre	@			0.024	\$2.35	0.024	\$2.35	
Karate Zeon® (4)	\$98.00	/litre	@	0.024	\$2.35	0.024	\$2.35	0.024	\$2.35	
Trojan (5)	\$125.00	/litre	@	0.03	\$3.75	0.03	\$3.75	0.03	\$3.75	
Fungicides										
Chlorothalonil (6)	\$13.40	/litre	@	0.8	\$10.72	1.6	\$21.44	2.4	\$32.16	
Carbendazim (7)	\$13.55	/litre	@	0.5	\$6.78	1	\$13.55	1	\$13.55	
Procymidone (8)	\$20.00	/litre	@					0.5	\$10.00	
Operations										
Fuel & Oil					\$17.23		\$20.68		\$24.13	
Repairs & Maintenance					\$30.67		\$36.80		\$42.93	
Freight										
Grain (t)	\$35.00	/tonne	@	0.8	\$28.00	1.5	\$52.50	2.2	\$77.00	
Fertiliser (t)	\$25.00	/tonne	@	0.04	\$1.00	0.05	\$1.25	0.06	\$1.50	
Contract Work										
Aerial spraying										
Windrowing										
Insurance	\$12.00	/\$1000	@		\$6.72		\$12.60		\$18.48	
Other				1						-
					4					
TOTAL VARIABLE COST					\$361		\$461		\$574	
GROSS MARGIN/hecta					\$199		\$589		\$966	
Break Even Price (to co					\$451		\$307		\$261	
Break Even Yield (to co					0.52		0.66		0.82	
Gross Margin based on	last 5 year a	verage pr	ice		\$119		\$439		\$746	

COMMENTS

(1) Includes Adjuvant.(2) Cow Pea and/or Blue Green Aphid.

(3) Native budworm control.

(4/5) Etiella.

(6) Ascochyta (7,8) Grey mould.
Do not exceed 800ml/Ha Paraquat 250 when crop topping to avoid possible residues.

AGRONOMIC NOTES

Imazethapyr is a permit use.

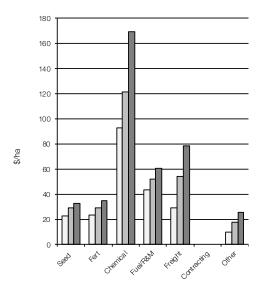
LOW RAINFALL

Net Price \$/t										
		\$400	\$500	\$700	\$700	\$800				
	0.3	-\$210	-\$181	-\$122	-\$122	-\$93				
Yield	0.8	-\$35	\$43	\$199	\$199	\$278				
t/ha	1.1	\$70	\$177	\$393	\$393	\$500				
	1.5	\$210	\$357	\$650	\$650	\$797				

		MEDIUM RAINFALL							
_		Net	Price \$/t						
		\$400	\$500	\$700	\$700	\$800			
	0.8	-\$96	-\$18	\$138	\$138	\$217			
Yield	1.5	\$149	\$296	\$589	\$589	\$736			
t/ha	2	\$324	\$520	\$911	\$911	\$1,106			
	3	\$674	\$968	\$1,554	\$1,554	\$1,848			
•	HIGH PAINEALI								

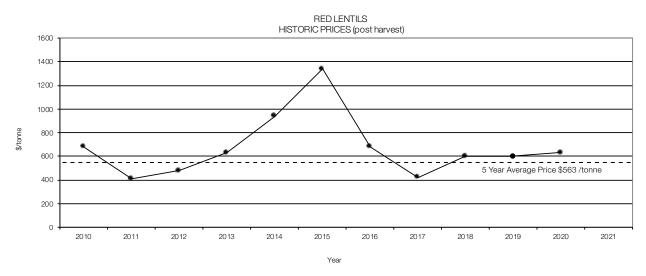
				HIGH KAIN	ALL	
		Net	Price \$/t			
		\$400	\$500	\$700	\$700	\$800
	0.8	-\$169	-\$91	\$65	\$65	\$143
Yield	1.5	\$76	\$222	\$516	\$516	\$662
t/ha	2.2	\$321	\$536	\$966	\$966	\$1,181
	3	\$601	\$894	\$1,481	\$1,481	\$1,775

Variable Costs



□Low ■Medium ■High

Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	10	6.34	4.20
roll	1	2.22	1.89
harvest#	1	18.67	6.89
TOTAL		30.67	17.23

 $^{\#\}operatorname{Rates}$ are for low rainfall zone. Extra cost in higher yielding situations

Field Peas

Gross Margin

INCOME				_						YOUR
D: //00/04 F I)			Rainfall	Zone	LOW		MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)	12				\$450		\$450		\$450	
Quality	Kaspa type								0.5	
Yield (t/ha)					1		1.7		2.5	
GROSS INCOME					\$450		\$765		\$1,125	
VADIADI E COCTO				Data/ba	-	Data/ba	-	Data /aa		
VARIABLE COSTS	Coot			Rate/ha	Ф Льо	Rate/ha	Ф./h-a	Rate/ha	Φ /b o	
01	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed	#0.50	4		00	Φ45.00	100	ΦΕΟ ΟΟ	440	ΦΕΕ 00	
Seed	\$0.50	/kg	@ @	90	\$45.00	100	\$50.00	110	\$55.00	
Seed Grading	\$30.00	/tonne	-	90	\$2.70	100	\$3.00	110	\$3.30	
P-Pickel	\$68.00	/tonne	@		\$0.00	100	\$6.80	110	\$7.48	
Apron® XL	\$341.25	/tonne	@		\$0.00		\$0.00	110	\$37.54	
Levies										
GRDC Levies	1.0%	Gross Inc			\$4.50		\$7.65		\$11.25	
EPR &state levies	\$3.00	/tonne so	ld		\$3.00		\$5.10		\$7.50	
Fertiliser (Bulk)										
MAP	\$1,300	/tonne	@	40	\$52.00	60	\$78.00	80	\$104.00	
Chemicals-Herbicides										
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents										
Propyzamide	\$45.00	/litre	@	1	\$45.00	1	\$45.00	1	\$45.00	
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Metribuzin 750 gm/kg	\$43.00	/kg	@	0.18	\$7.74	0.24	\$10.32	0.3	\$12.90	
Post-emergents										
Diflufenican	\$45.00	/litre	@	0.15	\$6.75	0.15	\$6.75	0.15	\$6.75	
MCPA Amine	\$14.00	/litre	@	0.1	\$1.40	0.1	\$1.40	0.1	\$1.40	
Cletho 360g/L(incOil)	\$19.40	/litre	@	0.33	\$6.47	0.33	\$6.47	0.33	\$6.47	
Haloxyfop 520g/L	\$46.95	/litre	@	0.04	\$1.88	0.04	\$1.88	0.00	ΨΟΙΙΙ	
Factor	\$0.13	/gm		0.01	Ψ1.00	0.01	Ψ1.00	180	\$23.40	
Paraquat 250 (Topping)	\$8.00	-	@	0.8	\$6.40	0.8	\$6.40	0.8	\$6.40	
Insecticides	Ψ0.00	/11116	•	0.0	Ψ0.40	0.0	ψ0.40	0.0	ψ0.40	
Karate Zeon® (1)	\$98.00	/litre	@	0.024	\$2.35	0.024	\$2.35	0.024	\$2.35	
. ,	\$98.00	/litre	@	0.024	\$0.00	0.024		0.024	\$0.78	
Karate Zeon® (2)			@	0.1			\$0.78			
Dimethoate (3)	\$16.50	/litre	w	0.1	\$1.65	0.1	\$1.65	0.1	\$1.65	
Fungicides	# 04 40	4.1	0	0.445	# 0.40	0.445	Φ0.40	0.445	00.40	
Tebuconazole (4)	\$21.40	/litre	@	0.145	\$3.10	0.145	\$3.10	0.145	\$3.10	
Operations					# 10.01		000.10		000 54	
Fuel & Oil					\$16.81		\$20.18		\$23.54	
Repairs & Maintenance					\$30.03		\$36.04		\$42.05	
Freight	.		_		.		0.5			
Grain (t)	\$30.00		@	1.0	\$30.00	1.7	\$51.00	2.5	\$75.00	
Fertiliser (t)	\$25.00	/tonne	@	0.04	\$1.00	0.06	\$1.50	0.08	\$2.00	
Contract Work							_			
		/ha	@		\$0.00		\$0.00		\$0.00	
		/ha	@		\$0.00		\$0.00		\$0.00	
Insurance	\$16.00		@		\$7.20		\$12.24		\$18.00	
Other	\$0.00				\$0.00					
	\$0.00	/ha			\$0.00					
TOTAL VARIABLE COST					\$336		\$419		\$558	
GROSS MARGIN/hecta					\$114		\$346		\$567	
Break Even Price (to co					\$336		\$246		\$223	
Break Even Yield (to co					0.75		0.93		1.24	
Gross Margin based on	last 5 year a	verage pr	ice		\$134		\$380		\$617	

COMMENTS

- (1) Native budworm control.
 (2) Pea weevil border spray.
 (3) RLEM.
 (4) Powdery Mildew.

AGRONOMIC NOTES

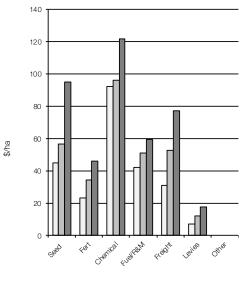
LOW RAINFALL

Net Price \$/t										
		\$300	\$350	\$450	\$450	\$500				
	0.5	-\$162	-\$137	-\$89	-\$89	-\$64				
Yield	1	-\$32	\$17	\$114	\$114	\$163				
t/ha	1.5	\$98	\$171	\$317	\$317	\$390				
	2	\$227	\$325	\$519	\$519	\$617				
	MEDIUM RAINFALL									

			WEDIOW RAINFALL							
		N	let Price \$/	⁄t						
		\$300	\$350	\$450	\$450	\$500				
	1	-\$83	-\$35	\$63	\$63	\$111				
Yield	1.7	\$98	\$181	\$346	\$346	\$429				
t/ha	2	\$176	\$273	\$468	\$468	\$565				
	2.5	\$305	\$427	\$671	\$671	\$792				

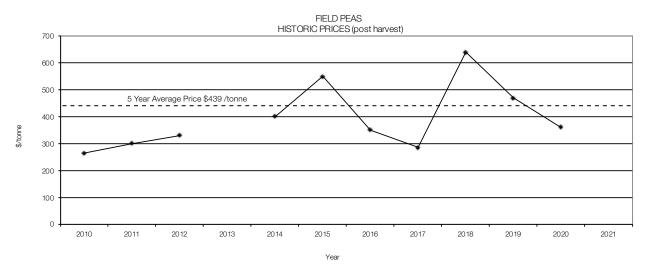
		HIGH RAINFALL									
	Net Price \$/t										
		\$300	\$350	\$450	\$450	\$500					
	1.5	-\$57	\$16	\$162	\$162	\$235					
Yield	2	\$72	\$170	\$364	\$364	\$462					
t/ha	2.5	\$202	\$324	\$567	\$567	\$689					
	3	\$331	\$478	\$770	\$770	\$916					

Variable Costs



□Low ■Medium ■High

Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	9	5.71	3.78
roll	1	2.22	1.89
harvest#	1	18.67	6.89
TOTAL		30.03	16.81

 $^{\#\}operatorname{Rates}$ are for low rainfall zone. Extra cost in higher yielding situations

Faba Beans

Gross Margin

INCOME				_ 1						YOUR
D: (00/01 E I)			Rainfall 2	Zone	LOW	•	MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)	Fia Cuada 1				\$550		\$550		\$550	
Quality Yield (t/ha)	Fie Grade 1				0.8		1.6		2.8	
GROSS INCOME					\$440		1.6 \$880		\$1,540	
anos modul					φττυ		φοου		φ1,540	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha	- I	
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed					******		7		******	
Seed	\$0.55	/ka	@	100	\$55.00	110	\$60.50	130	\$71.50	
Seed Inoculant	\$0.05	•	@	100	\$5.00	110	\$5.50	130	\$6.50	
Levies		3			,		,		, , ,	
GRDC Levies	1.0%	Gross Inc	ome		\$4.40		\$8.80		\$15.40	
EPR &state levies	\$4.00	/tonne so	ld		\$3.20		\$6.40		\$11.20	
Fertiliser (Bulk)					,		,			
MAP	\$1,300	/tonne	@	40	\$52.00	60	\$78.00	80	\$104.00	
Chemicals-Herbicides	, = = 0		-							
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents					,		,		, , ,	
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Propyzamide	\$45.00	/litre	@	1	\$45.00	1	\$45.00	1	\$45.00	
Simazine 900g/kg	\$8.50	/kg	@	0.83	\$7.06	0.83	\$7.06	0.83	\$7.06	
Post-emergents		Ü								
Cletho 360g/L(incOil)	\$19.40	/litre	@	0.33	\$10.06	0.33	\$10.06	0.33	\$10.06	
Haloxyfop 520g/L	\$46.95	/litre	@	0.04	\$1.88	0.08	\$3.76			
Factor	\$0.13	/gm						180	\$23.40	
Paraquat 250 (Desiccant)	\$8.00	/litre	@	0.8	\$6.40	0.8	\$6.40	0.8	\$6.40	
Insecticides										
Chlorpyrifos (1)	\$12.30	/litre	@	0.14	\$1.72	0.14	\$1.72	0.14	\$1.72	
Karate Zeon® (2)	\$98.00	/litre	@	0.024	\$2.35	0.024	\$2.35	0.024	\$2.35	
Dimethoate (3)	\$16.50	/litre	@	0.5	\$8.25	0.5	\$8.25	0.5	\$8.25	
Fungicides										
Tebuconazole(4)	\$21.40	/litre	@		\$0.00	0.3	\$6.42	0.3	\$6.42	
Mancozeb-low r/f	\$12.85	/kg	@	1.7	\$21.85	0	\$0.00	0	\$0.00	
Mancozeb-Med/high	\$12.85	/kg	@	0	\$0.00	5.1	\$65.54	5.1	\$65.54	
Procymidone	\$20.00	/litre	@		\$0.00		\$0.00	0.5	\$10.00	
Carbendazim 2 applic	\$13.55	/litre	@			0.5	\$6.78	1	\$13.55	
Operations										
Fuel & Oil					\$15.00		\$17.99		\$20.99	
Repairs & Maintenance					\$23.15		\$27.78		\$32.41	
Freight										
Grain (t)	\$30.00	/tonne	@	0.8	\$24.00	1.6	\$48.00	2.8	\$84.00	
Fertiliser (t)	\$25.00	/tonne	@	0.04	\$1.00	0.06	\$1.50	0.08	\$2.00	
Contract Work										
Aerial spraying	\$15.00	/ha	@		\$0.00	1	\$15.00	1	\$15.00	
Insurance	\$12.00	/\$1000	@		\$5.28		\$10.56		\$18.48	
Other										
TOTAL VARIABLE COST				ı	\$354		\$504		\$642	
GROSS MARGIN/hectare					\$86		\$376		\$898	
Break Even Price (to co					\$442		\$315		\$229	
Break Even Yield (to cov					0.64		0.92		1.17	
Gross Margin based on l	ast 5 year a	verage pri	ce		\$76		\$356		\$863	

COMMENTS

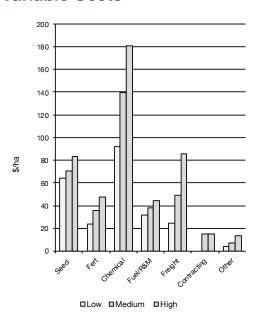
- (1) RLEM control.(2) Native Budworm control.
- (3) Cow pea aphid.
- (4) Cercospora Mancozeb for Ascochyta. Procymidone and Carbendazim for chocalate spot.

AGRONOMIC NOTES

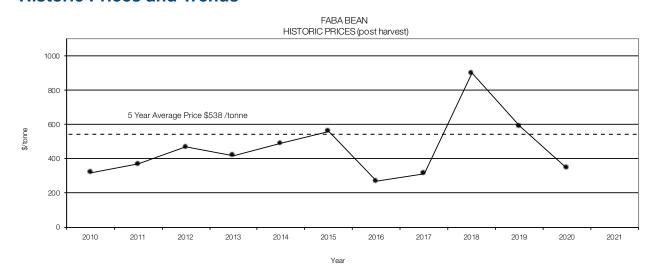
No allowance is made in this gross margin as to the economic benefit of bean stubble to livestock.

	LOW RAINFALL									
		N	et Price \$/	t						
		\$300	\$350	\$550	\$450	\$500				
	0.4	-\$213	-\$193	-\$115	-\$154	-\$135				
Yield	0.8	-\$109	-\$70	\$86	\$8	\$47				
t/ha	1.5	\$72	\$146	\$439	\$292	\$366				
	2	\$202	\$300	\$691	\$495	\$593				
				MEDIUM R	AINFALL					
	Net Price \$/t									
		\$300	\$350	\$550	\$450	\$500				
	1	-\$171	-\$122	\$73	-\$24	\$24				
Yield	1.6	-\$16	\$63	\$376	\$219	\$297				
t/ha	2	\$88	\$186	\$577	\$382	\$479				
	2.5	\$218	\$340	\$829	\$585	\$707				
				HIGH RAIN	FALL					
		N	et Price \$/	t						
		\$300	\$350	\$550	\$450	\$500				
	1	-\$254	-\$205	-\$9	-\$107	-\$58				
Yield	2	\$6	\$103	\$495	\$299	\$397				
t/ha	2.8	\$213	\$350	\$898	\$624	\$761				
	4	\$524	\$720	\$1,502	\$1,111	\$1,307				

Variable Costs



Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	10	6.34	4.20
harvest#	1	13.37	6.54
TOTAL		23.15	15.00

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

Chickpeas

Gross Margin

INCOME										2022 YOUR
			Rainfall	Zone	LOW	•	MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)					\$800	•	\$800		\$800	
Quality	6-8 mm Ka	abuli								
Yield (t/ha)					0.7		1.1		1.6	
GROSS INCOME					\$560		\$880		\$1,280	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
Seed	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed	\$0.80	/kg	@	90	\$72.00	100	\$80.00	110	\$88.00	
Seed Inoculant	\$50.00	/tonne	@	90	\$4.50	100	\$5.00	110	\$5.50	
P-Pickel	\$68.00	/tonne	@	90	\$6.12	100	\$6.80	110	\$7.48	
Levies										
GRDC Levies	1.0%	Gross Ind	come		\$5.60		\$8.80		\$12.80	
EPR &state levies	\$5.50	/tonne so	old		\$3.85		\$6.05		\$8.80	
Fertiliser (Bulk)										
MAP	\$1,300	/tonne	@	40	\$52.00	60	\$78.00	80	\$104.00	
Chemicals-Herbicides										
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents										
Propyzamide	\$45.00	/litre	@	1	\$45.00	1	\$45.00	1	\$45.00	
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Balance®	\$0.12	/gram	@	75	\$9.00	100	\$12.00	100	\$12.00	
Metribuzin 750 gm/kg	\$43.00	•	@	0.18	\$7.74	0.24	\$10.32	0.3	\$12.90	
Post-emergents	φ+0.00	/Ng	•	0.10	Ψ1.14	0.24	Ψ10.02	0.0	Ψ12.50	
Cletho 360g/L(incOil)	\$19.40	/litre	@	0.33	\$10.06	0.33	\$10.06	0.33	\$10.06	
Haloxyfop 520g/L	\$46.95	/litre	@	0.04	\$1.88	0.08	\$3.76	0.00	Ψ10.00	
Factor	\$0.13		w	0.04	φ1.00	0.00	φ3.70	180	\$23.40	
	φυ.13	/gm						100	φ23.40	
Insecticides	# 10.00	/l:1		0.14	64.70	0.11	04.70	0.14	04.70	
Chlorpyrifos (RLEM) Karate Zeon®	\$12.30	/litre /litre	@ @	0.14 0.024	\$1.72	0.14 0.024	\$1.72 \$2.35	0.14	\$1.72 \$4.70	
	\$98.00	/IItre	W	0.024	\$2.35	0.024	\$2.33	0.048	\$4.70	
Fungicides	\$54.50	A:1			Φ0.00	0.0	\$00.70	4.0	005.40	
Aviator Xpro	\$54.50		@		\$0.00	0.6	\$32.70	1.2	\$65.40	
Chlorothalonil	\$13.40	/litre	@	2.0	\$26.80	2.0	\$26.80	2.0	\$26.80	
Carbendazim	\$13.55	/litre	@	0.5	\$6.78	0.5	\$6.78	0.5	\$6.78	
Desiccation										
Paraquat 250	\$8.00	/litre	@	0.8	\$6.40	0.8	\$6.40	0.8	\$6.40	
Operations										
Fuel & Oil					\$15.00		\$17.99		\$20.99	
Repairs & Maintenance					\$23.15		\$27.78		\$32.41	
Freight										
Grain (t)	\$30.00	/tonne	@	0.7	\$21.00	1.1	\$33.00	1.6	\$48.00	
Fertiliser (t)	\$25.00	/tonne	@	0.04	\$1.00	0.06	\$1.50	0.08	\$2.00	
Contract Work										
Aerial spraying	\$15.00	/ha	@		\$0.00		\$0.00		\$0.00	
Windrowing	\$38.00	/ha	@		\$0.00	0	\$0.00	0	\$0.00	
Insurance	\$10.00	/\$1000	@		\$5.60		\$8.80		\$12.80	
Other										
TOTAL VARIABLE COO				1	#		0400		6040	
TOTAL VARIABLE COST					\$389		\$493		\$619	
GROSS MARGIN/hectar			۸ -		\$171		\$387		\$661	
	reak Even Price (to cover variable costs only) reak Even Yield (to cover variable costs only)				\$555		\$448		\$387	
Break Even Yield (to co	ver variable	costs only verage pri	•		0.49 \$98		0.62 \$272		0.77 \$493	

Seed is inoculated with a Group N inoculant. Do not exceed 800ml/Ha Paraquat 250 when desiccating to avoid possible residue issues.

AGRONOMIC NOTES

Adl commonly grown varieties are susceptible to Ascochyta. Requires diligent fungicide program to control.

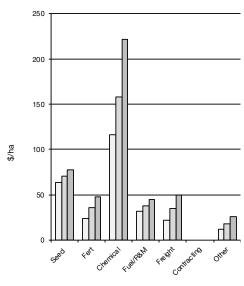
Price is heavily dependant on grade and quality. Seek advice. May need to store product for up to 12 months before marketing.

			LOW RAINFALL							
		N	let Price \$/	't						
		\$500	\$600	\$800	\$800	\$900				
	0.4	-\$171	-\$131	-\$53	-\$53	-\$14				
Yield	0.7	-\$34	\$34	\$171	\$171	\$240				
t/ha	1.2	\$193	\$311	\$546	\$546	\$663				
	1.8	\$466	\$642	\$995	\$995	\$1,171				

		MEDIUM RAINFALL							
		Ne	t Price \$/t						
		\$500	\$600	\$800	\$800	\$900			
	0.5	-\$209	-\$160	-\$62	-\$62	-\$13			
Yield	1.1	\$64	\$172	\$387	\$387	\$495			
t/ha	1.8	\$382	\$559	\$911	\$911	\$1,088			
	2.3	\$609	\$835	\$1,286	\$1,286	\$1,511			
	HIGH RAINFALL								

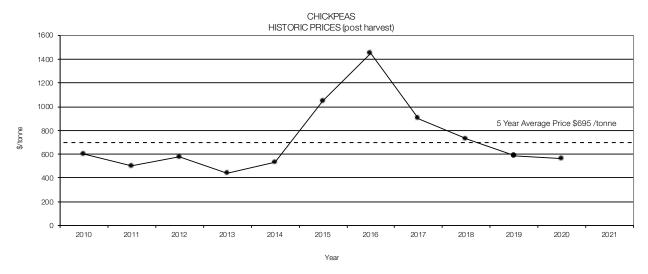
		THOTT TAIN ALL								
		N	et Price \$/	′t						
		\$500	\$600	\$800	\$800	\$900				
	1	-\$82	\$16	\$212	\$212	\$310				
Yield	1.5	\$145	\$292	\$586	\$586	\$733				
t/ha	1.6	\$191	\$347	\$661	\$661	\$818				
	2.5	\$600	\$845	\$1,335	\$1,335	\$1,580				

Variable Costs



□Low □Medium □High

Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	10	6.34	4.20
harvest#	1	13.37	6.54
TOTAL		23.15	15.00

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

Canola - Conventional

Gross Margin

INCOME										2022 YOUR
			Rainfall 2	Zone	LOW	•	MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)					\$750	•	\$750		\$750	
Quality	42% oil				,		, , , ,		,	
Yield (t/ha)					0.8		1.5		2.2	
GROSS INCOME					\$600		\$1,125		\$1,650	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Seed (1)	\$32.00	/kg	@	1	\$32.00	1.5	\$48.00	2	\$64.00	
Levies										
GRDC Levies	1.0%	Gross Ind	come		\$6.00		\$11.25		\$16.50	
State levies	\$0.50	/tonne so	old		\$0.40		\$0.75		\$1.10	
Fertiliser (Bulk)										
18:20:0	\$1,300	/tonne	@	35	\$45.50	55	\$71.50	75	\$97.50	
Flutriafol (on fert)	\$45.00	/litre	@	0.2	\$9.00	0.2	\$9.00	0.2	\$9.00	
Urea	\$1,500	/tonne	@	50	\$75.00	100	\$150.00	150	\$225.00	
SOA	\$700	/tonne	@	50	\$35.00	50	\$35.00	100	\$70.00	
Chemicals-Herbicides										
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents										
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Propyzamide	\$45.00	/litre	@	1	\$45.00	1	\$45.00	1	\$45.00	
Trifluralin 480g/L	\$8.00	/litre	@	1.5	\$12.00	2	\$16.00	2	\$16.00	
Post-emergents										
Haloxyfop 520g/L	\$46.95	/litre	@	0.04	\$1.88	0.04	\$1.88	0.04	\$1.88	
Cletho 360g/L(incOil)	\$19.40	/litre	@	0.33	\$10.06	0.33	\$10.06	0.33	\$10.06	
Clopyralid 300g/L	\$42.00	/litre	@	0.25	\$10.50	0.25	\$10.50	0.25	\$10.50	
Glypho (pre-harvest) (2) Insecticides	\$15.00	/litre	@	2	\$30.00	2	\$30.00	2	\$30.00	
Chlorpyrifos 500g/L	\$12.30	/litre	@	0.5	\$6.15	0.5	\$6.15	0.5	\$6.15	
Talstar	\$32.50	/litre	@	0.04	\$1.30	0.04	\$1.30	0.04	\$1.30	
Transform (3)	\$340.00	/litre	@	0.1	\$34.00	0.1	\$34.00	0.1	\$34.00	
Karate Zeon® (4)	\$98.00	/litre	@	0.024	\$2.35	0.024	\$2.35	0.024	\$2.35	
Affirm (5)	\$75.00	/litre	@	0	\$0.00	0.3	\$22.50	0.3	\$22.50	
Operations										
Fuel & Oil					\$14.58		\$17.50		\$20.41	
Repairs & Maintenance					\$20.08		\$24.10		\$28.11	
Freight										
Grain (t)	\$30.00	/tonne	@	0.8	\$24.00	1.5	\$45.00	2.2	\$66.00	
Fertiliser (t)	\$25.00	/tonne	@	0.135	\$3.38	0.205	\$5.13	0.325	\$8.13	
Contract Work										
Aerial spraying	\$15.00	/ha	@		\$0.00	1	\$15.00	1	\$15.00	
Windrowing	\$38.00	/ha	@		\$0.00	1	\$38.00	1	\$38.00	
Insurance	\$12.00	/\$1000	@		\$7.20		\$13.50		\$19.80	
Urea spreading	\$8.50	/ha	@	1	\$8.50	2	\$17.00	2	\$17.00	
Other										
TOTAL VARIABLE COSTS					\$495		\$741		\$936	
GROSS MARGIN/hectar					\$105		\$384		\$714	
Break Even Price (to cover variable costs only)				\$619		\$494		\$426		
Break Even Yield (to co					0.66		0.99		1.25	
Gross Margin based on	last 5 year a	verage pri	ice		-\$15		\$159		\$384	

- (1) Seed treated with insecticide and fungicide.
- (2) Weedmaster DST registered for this purpose.
- (3) Green Peach Aphid.
- (4) Native Budworm-Low rainfall.
- (5) DBM and Native Budworm.

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.

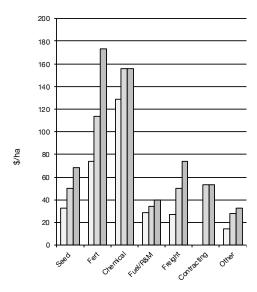
In low rainfall situations, oil penalties may apply- conversely oil bonuses may be expected in high rainfall areas.

-		LOW RAINFALL							
		Ne	t Price \$/t						
		\$650	\$700	\$750	\$800	\$850			
	0.3	-\$276	-\$261	-\$246	-\$232	-\$217			
Yield	0.8	\$27	\$66	\$105	\$144	\$183			
t/ha	1.1	\$208	\$262	\$316	\$370	\$424			
	1.5	\$451	\$524	\$597	\$671	\$744			

		WEDIUW KAINFALL							
		Net	Price \$/t						
		\$650	\$700	\$750	\$800	\$850			
	0.7	-\$247	-\$213	-\$179	-\$145	-\$110			
Yield	1.5	\$237	\$310	\$384	\$457	\$530			
t/ha	2	\$539	\$637	\$735	\$833	\$931			
	2.5	\$842	\$964	\$1,087	\$1,209	\$1,331			
	HIGH RAINFALL								

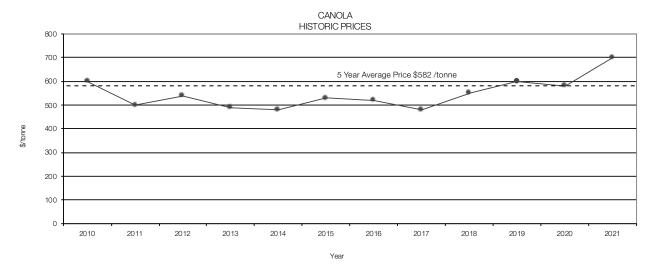
		III GIII I ALL							
		N	let Price \$/	′t					
		\$650	\$700	\$750	\$800	\$850			
	1	-\$228	-\$179	-\$130	-\$81	-\$32			
Yield	1.5	\$75	\$148	\$222	\$295	\$368			
t/ha	2.2	\$499	\$606	\$714	\$821	\$929			
	3	\$983	\$1,129	\$1,276	\$1,423	\$1,570			

Variable Costs



□Low □Medium □High

Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	11	6.97	4.62
harvest#	1	9.67	5.71
TOTAL		20.08	14.58

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

Canola - Triazine Tolerant

Gross Margin

INCOME										2022 YOUR
INCOME			Rainfall	Zone	LOW		MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)					\$750		\$750		\$750	
Quality	42% oil									
Yield (t/ha)					0.7		1.3		2	
GROSS INCOME					\$525		\$975		\$1,500	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Seed (1)	\$32.00	/kg	@	1.5	\$48.00	2	\$64.00	2.5	\$80.00	
Levies										
GRDC Levies	1.0%				\$5.25		\$9.75		\$15.00	
State levies	\$0.50	/tonne so	d		\$0.35		\$0.65		\$1.00	
Fertiliser (Bulk)							4			
18:20:0	\$1,300	/tonne	@	35	\$45.50	55	\$71.50	75	\$97.50	
Flutriafol (on fert)		/litre	@	0.2	\$9.00	0.2	\$9.00	0.2	\$9.00	
Urea	\$1,500	/tonne	@	40	\$60.00	80	\$120.00	120	\$180.00	
SOA	\$700	/tonne	@	50	\$35.00	50	\$35.00	100	\$70.00	
Chemicals-Herbicides		\/oric	Allow		\$40.00		¢40.00		¢40.00	
Summer Weed Control Pre-emergents		Various	Allow		Φ40.00		\$40.00		\$40.00	
•	¢15.00	/1			¢10.70	4.4	\$16.72		\$16.72	
Atrazine (900 g/kg)	\$15.20 \$8.00	/kg /litre	@ @	1.1 1.5	\$16.72 \$12.00	1.1 2	\$16.72	1.1 2	\$16.72	
Trifluralin 480g/L Glyphosate 540	\$15.00	/litre	@	1.2	\$12.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$18.00	
Propyzamide	\$45.00	/litre	@	1	\$45.00	1	\$45.00	1	\$45.00	
Post-emergents	Ψ45.00	/IIII C	•	'	Ψ+3.00	'	Ψ43.00	'	Ψ43.00	
Cletho 360g/L(incOil)	\$19.40	/litre	@	0.33	\$10.06	0.33	\$10.06	0.33	\$10.06	
Haloxyfop 520g/L	\$46.95	/litre	@	0.04	\$1.88	0.04	\$1.88	0.04	\$1.88	
Clopyralid 300g/L	\$42.00	/litre	@	0.25	\$10.50	0.25	\$10.50	0.25	\$10.50	
Glypho (pre-harvest) (2)		/litre	@	2	\$30.00	2	\$30.00	2	\$30.00	
Insecticides	*******		_		*******	_	******	_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Chlorpyrifos 500g/L	\$12.30	/litre	@	0.5	\$6.15	0.5	\$6.15	0.5	\$6.15	
Talstar	\$32.50	/litre	@	0.04	\$1.30	0.04	\$1.30	0.04	\$1.30	
Transform (3)	\$340.00	/litre	@	0.1	\$34.00	0.1	\$34.00	0.1	\$34.00	
Karate Zeon® (4)	\$98.00	/litre	@	0.024	\$2.35	0.024	\$2.35	0.024	\$2.35	
Affirm (5)	\$75.00	/litre	@	0	\$0.00	0.3	\$22.50	0.3	\$22.50	
Operations										
Fuel & Oil					\$14.58		\$17.50		\$20.41	
Repairs & Maintenance					\$20.08		\$24.10		\$28.11	
Freight										
Grain (t)	\$30.00	/tonne	@	0.7	\$21.00	1.3	\$39.00	2	\$60.00	
Fertiliser (t)	\$25.00	/tonne	@	0.125	\$3.13	0.185	\$4.63	0.295	\$7.38	
Contract Work										
Aerial spraying	\$15.00	/ha	@		\$0.00	1	\$15.00	1	\$15.00	
Windrowing	\$38.00		@		\$0.00	1	\$38.00	1	\$38.00	
Insurance	\$12.00		@		\$6.30		\$11.70		\$18.00	
Urea spreading	\$8.50	/ha	@	1	\$8.50	2	\$17.00	2	\$17.00	
Other										
TOTAL VADIABLE COST	re				\$500		\$724		\$914	
TOTAL VARIABLE COST GROSS MARGIN/hectar					\$508 \$17		\$734 \$241		\$914 \$586	
	treak Even Price (to cover variable costs only)						\$241 \$565		\$457	
	reak Even Price (to cover variable costs only) reak Even Yield (to cover variable costs only)						0.98		1.22	
Gross Margin based on					0.68 -\$121		-\$16		\$191	

COMMENTS

- (1) Seed treated with insecticide and fungicide. (2) Weedmaster DST registered for this purpose. (3) Green Peach Aphid.
- (4) Native Budworm.
- (5) DBM and Native Budworm.

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.

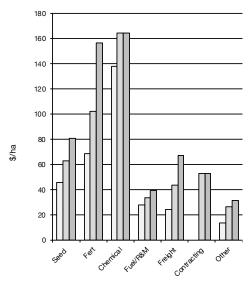
In low rainfall situations, oil penalties may apply- conversely oil bonuses may be expected in high rainfall areas.

			LOW RAINFALL							
		N	let Price \$/	t						
		\$650	\$700	\$750	\$800	\$850				
	0.3	-\$293	-\$279	-\$264	-\$249	-\$235				
Yield	0.7	-\$51	-\$17	\$17	\$52	\$86				
t/ha	1.1	\$191	\$245	\$299	\$352	\$406				
	1.5	\$433	\$506	\$580	\$653	\$726				

		MEDIUM KAINFALL						
		Ne	t Price \$/t					
		\$650	\$700	\$750	\$800	\$850		
	0.7	-\$250	-\$215	-\$181	-\$147	-\$113		
Yield	1.3	\$114	\$177	\$241	\$304	\$368		
t/ha	2	\$537	\$635	\$733	\$831	\$928		
	2.5	\$840	\$962	\$1,084	\$1,207	\$1,329		
	HIGH RAINFALL							

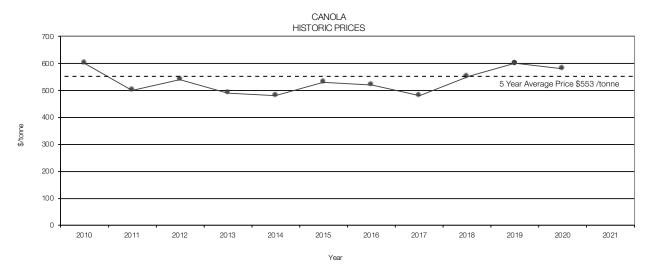
		HIGH HAIN ALL								
	Net Price \$/t									
	\$650 \$700 \$750 \$800 \$850									
	1	-\$215	-\$166	-\$117	-\$68	-\$19				
Yield	1.5	\$88	\$161	\$235	\$308	\$381				
t/ha	2	\$391	\$488	\$586	\$684	\$782				
	2	\$391	\$488	\$586	\$684	\$782				

Variable Costs



□Low □Medium □High

Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	11	6.97	4.62
harvest#	1	9.67	5.71
TOTAL		20.08	14.58

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

Canola - Clearfield Hybrid

Gross Margin

INCOME										2022 YOUR
			Rainfall	Zone	LOW	•	MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast)					\$750	•	\$750		\$750	
Quality	42% oil									
Yield (t/ha)					0.75		1.4		2.1	
GROSS INCOME					\$563		\$1,050		\$1,575	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed								_	401.00	
Seed (1)	\$32.00	/kg	@	1	\$32.00	1.5	\$48.00	2	\$64.00	
Levies	4.00/				45.00		0.10 F0		045.75	
GRDC Levies	1.0%				\$5.63		\$10.50		\$15.75	
State levies	\$0.50	/tonne so	a		\$0.38		\$0.70		\$1.05	
Fertiliser (Bulk)	# 4 000	4		0.5	0 45 50		Φ74 F0	7.5	07.50	
18:20:0	\$1,300 \$45.00	/tonne	@ @	35	\$45.50 \$9.00	55 0.2	\$71.50	75 0.2	\$97.50	
Flutriafol (on fert)		/litre		0.2	-	0.2	\$9.00		\$9.00	
Urea SOA	\$1,500 \$700	/tonne /tonne	@ @	50 50	\$75.00 \$35.00	100 50	\$150.00 \$35.00	150 100	\$225.00 \$70.00	
Chemicals-Herbicides	\$100	ronne	w	30	φ35.00	50	φ35.00	100	Φ/0.00	
Summer Weed Control		Various	Allow		\$40.00		\$40.00		\$40.00	
Pre-emergents		vai iOUS	∠110 W		ψ+0.00		ψ+0.00		Ψ+0.00	
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Trifluralin 480g/L	\$8.00	/litre	@	1.5	\$12.00	2	\$16.00	2	\$16.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Propyzamide	\$45.00	/litre	@	1	\$45.00	1	\$45.00	1	\$45.00	
Post-emergents	Ψ10.00	/ II C			Ψ10.00		Ψ10.00	•	Ψ10.00	
Intervix	\$31.00	/litre	@	0.4	\$12.40	0.6	\$18.60	0.6	\$18.60	
Adjuvant	\$5.60	/litre	@	0.375	\$2.10	0.375	\$2.10	0.375	\$2.10	
Cletho 360g/L(incOil)	\$19.40	/litre	@	0.33	\$10.06	0.33	\$10.06	0.33	\$10.06	
Clopyralid 300g/L	\$42.00	/litre	@	0.25	\$10.50	0.25	\$10.50	0.25	\$10.50	
Glypho (pre-harvest) (2)	\$15.00	/litre	@	2	\$30.00	2	\$30.00	2	\$30.00	
Insecticides										
Chlorpyrifos 500g/L	\$12.30	/litre	@	0.5	\$6.15	0.5	\$6.15	0.5	\$6.15	
Talstar	\$32.50	/litre	@	0.04	\$1.30	0.04	\$1.30	0.04	\$1.30	
Transform (3)	\$340.00	/litre	@	0.1	\$34.00	0.1	\$34.00	0.1	\$34.00	
Karate Zeon® (4)	\$98.00	/litre	@	0.024	\$2.35	0.024	\$2.35	0.024	\$2.35	
Affirm (5)	\$75.00	/litre	@	0	\$0.00	0.3	\$22.50	0.3	\$22.50	
Operations										
Fuel & Oil					\$14.58		\$17.50		\$20.41	
Repairs & Maintenance					\$20.08		\$24.10		\$28.11	
Freight										
Grain (t)	\$30.00	/tonne	@	0.8	\$22.50	1.4	\$42.00	2.1	\$63.00	
Fertiliser (t)	\$25.00	/tonne	@	0.135	\$3.38	0.205	\$5.13	0.325	\$8.13	
Contract Work										
Aerial spraying	\$15.00	/ha	@		\$0.00	1	\$15.00	1	\$15.00	
Windrowing	\$38.00		@		\$0.00	1	\$38.00	1	\$38.00	
Insurance	\$12.00		@		\$6.75		\$12.60		\$18.90	
Urea spreading	\$8.50	/ha	@	1	\$8.50	2	\$17.00	2	\$17.00	
Other										
TOTAL VARIABLE COST					¢E0E		\$7FC		\$050	
TOTAL VARIABLE COST GROSS MARGIN/hectar					\$505		\$756		\$950	
Break Even Price (to cover variable costs only)					\$57 \$67.4		\$294 \$540		\$625 \$453	
sreak Even Price (to cover variable costs only) Break Even Yield (to cover variable costs only)					\$674 0.67		\$540 1.01		\$453 1.27	
Gross Margin based on					-\$91		1.01 \$18		\$210	

COMMENTS

- (1) Seed treated with insecticide and fungicide. (2) Weedmaster DST registered for this purpose. (3) Green Peach Aphid.
- (4) Native Budworm.
- (5) DBM and Native Budworm.

AGRONOMIC NOTES

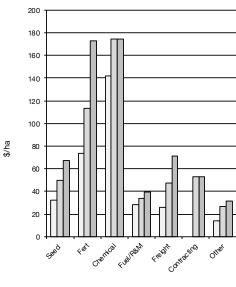
A maximum of 15 units of nitrogen and 10 units of phosphorus should be applied with seed. Nitrogen rate dependent on target yield. Sulphur required on sandy, neutral/acid soils and intensive cropping systems. Ensure insect control and good seed/soil contact when sowing. Assumes direct heading in low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

-			LOW RAINFALL							
		N	let Price \$/	′t						
		\$650	\$700	\$750	\$800	\$850				
	0.3	-\$288	-\$274	-\$259	-\$244	-\$230				
Yield	0.75	-\$16	\$21	\$57	\$94	\$131				
t/ha	1.1	\$196	\$250	\$303	\$357	\$411				
	1.5	\$438	\$511	\$585	\$658	\$731				

		MEDIUM KAINFALL						
		Ne	t Price \$/t					
		\$650	\$700	\$750	\$800	\$850		
	0.7	-\$266	-\$232	-\$198	-\$163	-\$129		
Yield	1.4	\$158	\$226	\$294	\$363	\$431		
t/ha	2	\$521	\$618	\$716	\$814	\$912		
	2.5	\$823	\$945	\$1,068	\$1,190	\$1,312		
	HIGH RAINFALL							

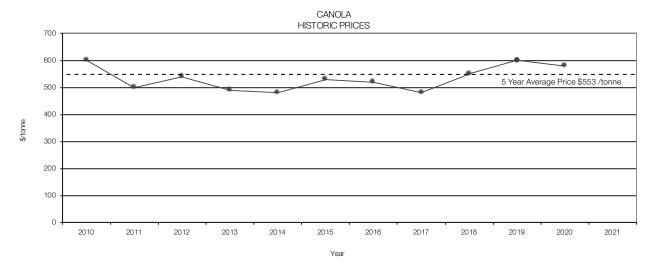
		HIGH HAIN ALL								
		N	et Price \$/	′t						
	\$650 \$700 \$750 \$800 \$ 850									
	1	-\$247	-\$198	-\$149	-\$100	-\$51				
Yield	1.5	\$56	\$129	\$203	\$276	\$349				
t/ha	2.1	\$419	\$522	\$625	\$727	\$830				
	2.7	\$782	\$914	\$1,046	\$1,178	\$1,310				

Variable Costs



□Low □Medium □High

Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	11	6.97	4.62
harvest#	1	9.67	5.71
TOTAL		20.08	14.58

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

Canola - Roundup Ready

Gross Margin

INCOME										2022 YOUR
		F	Rainfall .	Zone	LOW		MEDIUM		HIGH	ESTIMATE
Price (20/21 Forecast) (1)					\$720		\$720		\$720	
Quality	42% oil									
Yield (t/ha)					0.75		1.4		2.1	
GROSS INCOME					\$540		\$1,008		\$1,512	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High	\$/ha	
Seed										
Seed (2)	\$40.50	/kg	@	1	\$40.50	1.5	\$60.75	2	\$81.00	
Technology levy	\$8.90	/kg	@	1	\$8.90	1.5	\$13.35	2	\$17.80	
Levies										
GRDC Levies	1.0%	Gross Incom	е		\$5.40		\$10.08		\$15.12	
State levies	\$0.50	/tonne sold			\$0.38		\$0.70		\$1.05	
Fertiliser (Bulk)										
18:20:0	\$1,300	/tonne	@	35	\$45.50	55	\$71.50	75	\$97.50	
Flutriafol (on fert)	\$45.00	/litre	@	0.2	\$9.00	0.2	\$9.00	0.2	\$9.00	
Urea	\$1,500	/tonne	@	50	\$75.00	100	\$150.00	150	\$225.00	
SOA	\$700	/tonne	@	50	\$35.00	50	\$35.00	100	\$70.00	
Chemicals-Herbicides										
Summer Weed Control		Various A	llow		\$40.00		\$40.00		\$40.00	
Pre-emergents										
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Trifluralin 480g/L	\$8.00	/litre	@	1.5	\$12.00	2	\$16.00	2	\$16.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Post-emergents										
Roundup Ready 540	\$15.45	/litre	@	1.1	\$17.00	2.3	\$35.54	2.3	\$35.54	
Glyphosate (pre-harvest) (3	\$15.00	/litre	@	0	\$0.00	1.2	\$18.00	1.2	\$18.00	
Insecticides										
Chlorpyrifos 500g/L	\$12.30	/litre	@	0.5	\$6.15	0.5	\$6.15	0.5	\$6.15	
Talstar	\$32.50	/litre	@	0.04	\$1.30	0.04	\$1.30	0.04	\$1.30	
Transform (4)	\$340.00	/litre	@	0.1	\$34.00	0.1	\$34.00	0.1	\$34.00	
Karate Zeon® (5)	\$98.00	/litre	@	0.024	\$2.35	0.024	\$2.35	0.024	\$2.35	
Affirm (6)	\$75.00	/litre	@	0	\$0.00	0.3	\$22.50	0.3	\$22.50	
Operations										
Fuel & Oil					\$13.32		\$15.99		\$18.65	
Repairs & Maintenance					\$18.18		\$21.82		\$25.45	
Freight										
Grain (t)	\$30.00	/tonne	@	0.8	\$22.50	1.4	\$42.00	2.1	\$63.00	
Fertiliser (t)	\$25.00	/tonne	@	0.135	\$3.38	0.205	\$5.13	0.325	\$8.13	
Contract Work										
Aerial spraying	\$15.00	/ha	@		\$0.00	1	\$15.00	1	\$15.00	
Windrowing	\$38.00	/ha	@		\$0.00	1	\$38.00	1	\$38.00	
Insurance	\$12.00		@		\$6.48		\$12.10		\$18.14	
Urea spreading	\$8.50	/ha	@	1	\$8.50	2	\$17.00	2	\$17.00	
Other										
TOTAL VARIABLE COOTS					0.400		6744		0047	
TOTAL VARIABLE COSTS GROSS MARGIN/hectare					\$426 \$114		\$714 \$294		\$917 \$595	
Break Even Price (to cov		costs only)			\$568		\$510		\$437	
Break Even Yield (to cove					0.59		0.99		1.27	
Gross Margin based on la					-\$11		\$59		\$244	

COMMENTS

- (1) Price achieved will vary depending on markets.
 (2) Treated with insecticide and fungicide.
 (3) Sprayed under the windrow for weed management only.
- (4) Green Peach Aphid.
- (5) Native Budworm.(6) DBM and NativeBudworm.

AGRONOMIC NOTES

may be expected in high rainfall areas.

AGRONOMIC NOTES
Growers must participate in a training session either online or face to face and sign a licence and Stewardship agreement before being able to purchase seed with RR Technology from an approved seed retailer.

A maximum of 15 units of nitrogen and 10 units of phosphorus should be applied with seed. Nitrogen rate dependent on target yield. Sulphur is required on sandy, neutral/acid soils and intensive cropping systems. Ensure insect control and good seed/soil contact when sowing.

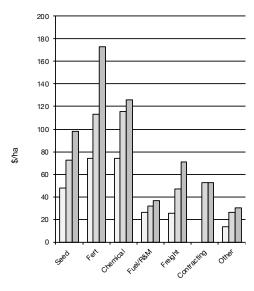
Assumes direct heading in low rainfall/yielding situations. Direct heading is becoming more widely used in all zones. is becoming more widely used in all zones. In low rainfall situations, oil penalties may apply conversely oil bonuses

				LOW RAIN	LOW RAINFALL								
		N	et Price \$/	't									
		\$620	\$670	\$720	\$770	\$820							
	0.3	-\$218	-\$204	-\$189	-\$174	-\$160							
Yield	0.75	\$41	\$78	\$114	\$151	\$188							
t/ha	1.1	\$242	\$296	\$350	\$404	\$458							
	1.5	\$473	\$546	\$619	\$693	\$766							

		MEDIUM RAINFALL							
		Ne	t Price \$/t						
		\$620	\$670	\$720	\$770	\$820			
	0.7	-\$246	-\$212	-\$178	-\$144	-\$109			
Yield	1.4	\$157	\$225	\$294	\$362	\$431			
t/ha	2	\$502	\$600	\$698	\$796	\$894			
	2.5	\$790	\$913	\$1,035	\$1,157	\$1,279			
	HIGH RAINFALL								

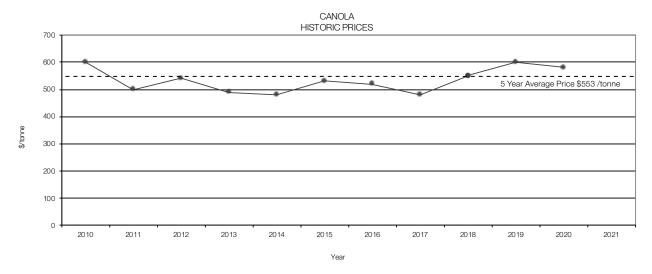
		III GIIII ALL								
		N	let Price \$/	′t						
		\$620	\$670	\$720	\$770	\$820				
	1	-\$243	-\$195	-\$146	-\$97	-\$48				
Yield	1.5	\$44	\$118	\$191	\$264	\$338				
t/ha	2.1	\$390	\$493	\$595	\$698	\$801				
	2.7	\$735	\$867	\$1,000	\$1,132	\$1,264				

Variable Costs



□Low □Medium □High

Historic Prices and Trends



Machinery Costs

Machinery Costs- Assuming full ownership of machinery

No.	Repairs & Maint	Fuel
	\$/ha	\$/ha
1	3.44	4.25
8	5.07	3.36
1	9.67	5.71
	18.18	13.32
	1	\$/ha 1 3.44 8 5.07 1 9.67

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

Sown Pasture Vetch

Gross Margin

										2022
INCOME								ı		YOUR
			Rainfall Z	one	LOW		MEDIUM		HIGH	ESTIMATE
Carrying Capacity (dry she		-	,		4		7		10	
Estimated return per dse b	pased on self	replacing M	1erino Ewe						_	
flock (Cereal Zone)					\$65.00		\$65.00		\$75.00	
GROSS INCOME					\$260		\$455		\$750	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha	-	
	Cost			Low	\$/ha	Medium	\$/ha	High		
Seed									_	
Seed (1)	\$0.70		@	25	\$17.50	35	\$24.50	50	\$35.00	
Seed Inoculant	\$0.05	/kg	@	25	\$1.25	35	\$1.75	50	\$2.50	
Levies										
					\$0.00		\$0.00		\$0.00	
Fertiliser (Bulk)										
MAP	\$1,300	/tonne	@	40	\$52.00	60	\$78.00	80	\$104.00	
Chemicals-Herbicides										
Pre-emergents									_	
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Trifluralin	\$8.00	/litre	@	1	\$8.00	1	\$8.00	1	\$8.00	
Metribuzin 750 gm/kg	\$43.00	/kg	@	0.2	\$8.60	0.25	\$10.75	0.3	\$12.90	
Post-emergents									L	
Cletho 360g/L(incOil)	\$19.40	/litre	@	0.33	\$10.06	0.33	\$10.06	0.33	\$10.06	
Haloxyfop 520g/L	\$46.95	/litre	@	0.075	\$3.52	0.075	\$3.52	0.075	\$3.52	
Glypho 540 (desiccant)	\$15.00	/litre	@	1.5	\$22.50	1.5	\$22.50	1.5	\$22.50	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Insecticides										
Dimethoate (2)	\$16.50	/litre	@	0.4	\$6.60	0.4	\$6.60	0.4	\$6.60	
Dimethoate (3)	\$16.50	/litre	@			0.1	\$1.65	0.1	\$1.65	
Operations										
Fuel & Oil					\$5.93		\$5.93		\$5.93	
Repairs & Maintenance					\$5.98		\$5.98		\$5.98	
Freight										
Grain (t)		tonnes			\$0.00		\$0.00		\$0.00	·
Fertiliser (t)	\$25.00	/tonne	@	0.04	\$1.00	0.06	\$1.50	0.08	\$2.00	
Contract Work										
Aerial spraying										
Insurance		/\$1000	@		\$0.00		\$0.00		\$0.00	
Other										
TOTAL VARIABLE COST					\$164		\$202		\$242	<u> </u>
GROSS MARGIN/hectar	e				\$96		\$253		\$508	

COMMENTS

Seed is not treated with a fungicide or graded.

(1) Assume Common vetch, other species more expensive.

(2) Cow pea aphid control.

(3) RLEM control.

AGRONOMIC NOTES

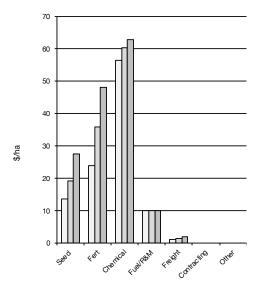
LOW RAINFALL

		(GM/dse						
		\$55	\$60	\$65	\$70	\$75			
	2	-\$54	-\$44	-\$34	-\$24	-\$14			
Carrying	4	\$56	\$76	\$96	\$116	\$136			
Capacity	6	\$166	\$196	\$226	\$256	\$286			
(dse)	8	\$276	\$316	\$356	\$396	\$436			
	MEDIUM RAINFALL								

		MEDIOW RAINFALL								
		(GM/dse							
		\$55	\$60	\$65	\$70	\$75				
	3	-\$37	-\$22	-\$7	\$8	\$23				
Carrying	5	\$73	\$98	\$123	\$148	\$173				
Capacity	7	\$183	\$218	\$253	\$288	\$323				
(dse)	9	\$293	\$338	\$383	\$428	\$473				
	LICH DAINEALL									

		HIGH RAINFALL								
			GM/dse							
		\$60	\$65	\$75	\$75	\$80				
	4	-\$2	\$18	\$58	\$58	\$78				
Carrying	7	\$178	\$213	\$283	\$283	\$318				
Capacity	10	\$358	\$408	\$508	\$508	\$558				
(dse)	12	\$478	\$538	\$658	\$658	\$718				

Variable Costs



□Low □Medium □High

Machinery Costs

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	1	3.44	4.25
spray	4	2.54	1.68
roll		0.00	0.00
harvest#		0.00	0.00
TOTAL		5.98	5.93

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

Self-Regenerating Pasture

Gross Margin

										2022
INCOME				. 1				i		YOUR
			Rainfall Z	one	LOW		MEDIUM		HIGH	ESTIMATE
Carrying Capacity (dry shee		-	,		4		7		10	
Estimated return per dse ba	ased on self	replacing M	lerino Ewe							
flock (Cereal Zone)					\$65.00		\$65.00		\$75.00	
GROSS INCOME					\$260		\$455		\$750	
VARIABLE COSTS				Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/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	\$800	/tonne	@	80	\$64.00	120	\$96.00	160	\$128.00	
Chemicals-Herbicides										
Pre-emergents										
Post-emergents									-	
Cletho 360g/L(incOil)	\$19.40	/litre	@	0.33	\$10.06	0.33	\$10.06	0.33	\$10.06	
Haloxyfop 520g/L	\$46.95	/litre	@	0.075	\$3.52	0.075	\$3.52	0.075	\$3.52	
Broadstrike®	\$0.35	/gram	@		\$0.00	25	\$8.75	50	\$17.50	
Paraquat 250 (Topping)	\$8.00	/litre	@	0.8	\$6.40	0.8	\$6.40	0.8	\$6.40	
Insecticides										
Dimethoate (1)	\$16.50	/litre	@	0.085	\$1.40	0.085	\$1.40	0.085	\$1.40	
Operations										
Fuel & Oil					\$1.26		\$1.26		\$1.26	
Repairs & Maintenance					\$1.90		\$1.90		\$1.90	
Freight										
Grain (t)		tonnes			\$0.00		\$0.00		\$0.00	
Fertiliser (t)	\$25.00	/tonne	@	0.08	\$2.00	0.12	\$3.00	0.16	\$4.00	
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 COSTS	i				\$99		\$141		\$183	
GROSS MARGIN/hectare					\$161		\$314		\$567	

COMMENTS (1) RLEM

AGRONOMIC NOTES

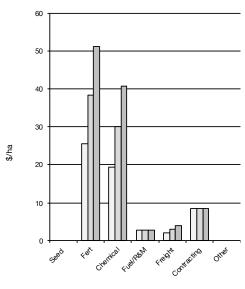
I OW	RAINFALL
LOW	RAINFALL

GM/dse								
		\$55	\$60	\$65	\$70	\$75		
	2	\$11	\$21	\$31	\$41	\$51		
Carrying	4	\$121	\$141	\$161	\$181	\$201		
Capacity	6	\$231	\$261	\$291	\$321	\$351		
(dse)	8	\$341	\$381	\$421	\$461	\$501		

	MEDIUM RAINFALL					
			GM/dse			
		\$55	\$60	\$65	\$70	\$75
	3	\$24	\$39	\$54	\$69	\$84
Carrying	5	\$134	\$159	\$184	\$209	\$234
Capacity	7	\$244	\$279	\$314	\$349	\$384
(dse)	9	\$354	\$399	\$444	\$489	\$534
				HICH DAIN	CALL	

	HIGH KAINFALL							
	GM/dse							
		\$60	\$65	\$75	\$75	\$80		
	4	\$57	\$77	\$117	\$117	\$137		
Carrying	7	\$237	\$272	\$342	\$342	\$377		
Capacity	10	\$417	\$467	\$567	\$567	\$617		
(dse)	12	\$537	\$597	\$717	\$717	\$777		

Variable Costs



□Low □Medium □High

Machinery Costs

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	0	0.00	0.00
spray	3	1.90	1.26
roll		0.00	0.00
harvest#		0.00	0.00
TOTAL		1.90	1.26

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

Dry-land Lucerne Pasture

Gross Margin

[<u>.</u>					1 1					2022
INCOME				_	MEDIUM		HIGH	•	HIGH	YOUR
			Rainfall 2	Zone	CEREAL		CEREAL	i	GRAZING	ESTIMATE
Carrying Capacity (dry she Estimated return per dse b		-	•	lock (Cereal	6		9		11	
Zone)	Dasca on son	replacing ivid	AIIIO EWC II	ock (ocical	\$65.00		\$75.00		\$75.00	
GROSS INCOME					\$390		\$675		\$825	
	_									
ESTABLISHMENT COSTS	S Cost			Rate/ha Medium	\$/ha	Rate/ha High C	\$/ha	Rate/ha High Gr		
Caad	COSI			Medium	φ/11α	riigii C	φ/11α	riigii Gi		
Seed	¢11.00	//	@		¢00.00	4	¢44.00	4	\$44.00	
Seed (1)	\$11.00	-	@ @	3	\$33.00	4	\$44.00 \$0.20	4 4		
Seed Inoculant	\$0.05	/kg	W	3	\$0.15	4	\$0.∠0	4	\$0.20	
Fertiliser (Bulk)	44.000	4	0		#70.00	70	004.00	00	010100	
MAP	\$1,300	/tonne	@	60	\$78.00	70	\$91.00	80	\$104.00	
Trace elements	\$3	/kg	@				\$0.00	3	\$9.00	
Chemicals-Herbicides Pre-emergents										
Glyphosate 540	\$15.00	/litre	@	1.2	\$18.00	1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400g/L	\$149.50	/litre	@	0.02	\$2.99	0.02	\$2.99	0.02	\$2.99	
Trifluran 480	\$8.00	/kg	@	1	\$8.00	1	\$8.00	1	\$8.00	
Post-emergents - seedling		/kg	•	'	Ψ0.00	ı	ψ0.00	'	ψ0.00	
Broadstrike	\$0.35	/am	@	25	\$12.41	25	\$12.41	25	\$12.41	
		/gm /litus					-			
Haloxyfop 520g/L	\$46.95	/litre	@	0.075	\$3.52	0.075	\$3.52	0.075	\$3.52	
Insecticides	440.50	4	0	0.4	0.1 0.5	0.4	04.05	0.4	04.05	
Dimethoate (1)	\$16.50	/litre	@	0.1	\$1.65	0.1	\$1.65	0.1	\$1.65	
Operations					4					
Fuel & Oil					\$5.51		\$5.51		\$5.51	
Repairs & Maintenance					\$5.34		\$5.34		\$5.34	
Loss of Grazing in first y				3	\$195.00	4	\$300.00	5	\$375.00	
Total Establishment Cos					\$363.58		\$492.63		\$589.63	
Depreciation on establi		-	rs		\$51.94		\$70.38		\$84.23	
VARIABLE COSTS	Established	stands								
Herbicides										
Sprayseed	\$16.60	/litre	@	2.0	\$33.20	2.0	\$33.20	2.0	\$33.20	
Diuron 900WG	\$18.75	/kg	@	1.0	\$18.75	1.0	\$18.75	1.0	\$18.75	
Raptor® WG	\$0.38	/gm	@	45	\$17.88	50	\$19.78	50	\$19.78	
Broadstrike	\$0.35	/litre	@	25	\$12.41	25	\$12.41	25	\$12.41	
Insecticides										
Dimethoate (1)	\$16.50	/litre	@	0.1	\$1.65	0.1	\$1.65	0.1	\$1.65	
Dimethoate (2)	\$16.50	/litre	@			0.375	\$6.19	0.375	\$6.19	
Fertiliser (Bulk)										
Superphosphate	\$800	/tonne	@	100	\$80.00	125	\$100.00	150	\$120.00	
Operations										
Fuel & Oil					\$2.73		\$2.73		\$2.73	
Repairs & Maintenance					\$3.49		\$3.49		\$3.49	
Freight					,		,		,	
Grain (t)		tonnes			\$0.00		\$0.00		\$0.00	
Fertiliser (t)	\$25.00		@	0.10	\$2.50	0.13	\$3.13	0.15	\$3.75	
Contract Work	\$20.00		•	0.10	Ψ2.00	5.10	\$0.10	5.70	\$0.70	
Aerial spraying										
Insurance		/\$1000	@		\$0.00		\$0.00		\$0.00	
Other		, ψ ι υ υ υ	w		ψ0.00		φυ.υυ		ψ0.00	
Ouid										
TOTAL VARIABLE COST	S			I	\$225		\$272		\$306	
GROSS MARGIN/hectar					\$165		\$403		\$519	

(1) Price varies between public and private varieties \$6.50 to \$14/kg. (2) RLEM control.

(3) RLEM control.

AGRONOMIC NOTES

Loss of grazing in first year, assumes 8 months grazing on poor quality

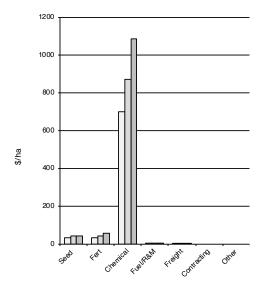
IEDIL		

		GM/dse				
		\$55	\$60	\$65	\$70	\$75
	4	-\$5	\$15	\$35	\$55	\$75
Carrying	6	\$105	\$135	\$165	\$195	\$225
Capacity	8	\$215	\$255	\$295	\$335	\$375
(dse)	10	\$325	\$375	\$425	\$475	\$525

				HIGH KAIN	IFALL CERE	:AL
		GM/dse				
		\$55	\$60	\$75	\$70	\$75
	5	\$3	\$28	\$103	\$78	\$103
Carrying	7	\$113	\$148	\$253	\$218	\$253
Capacity	9	\$223	\$268	\$403	\$358	\$403
(dse)	11	\$333	\$388	\$553	\$498	\$553

				HIGH RAIN	IFALL GRA	ZING		
GM/dse								
		\$60	\$65	\$75	\$75	\$80		
	7	\$114	\$149	\$219	\$219	\$254		
Carrying	9	\$234	\$279	\$369	\$369	\$414		
Capacity	11	\$354	\$409	\$519	\$519	\$574		
(dse)	13	\$474	\$539	\$669	\$669	\$734		

Variable Costs



□Low □Medium □High

Establishment Machinery Costs

Establishment 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	3.44	4.25
spray	3	1.90	1.26
roll		0.00	0.00
harvest#		0.00	0.00
TOTAL		5.34	5.51

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

Machinery Costs

Machinery Costs- Assuming full ownership of machinery

Operation	No.	Repairs & Maint	Fuel
		\$/ha	\$/ha
seed	0	0.00	0.00
spray	2	1.27	0.84
spreading	1	2.22	1.89
harvest#		0.00	0.00
TOTAL		3.49	2.73

Phalaris sub-clover Pasture

Gross Margin

										2022
INCOME							HIGH		HIGH	YOUR
			Rainfall Z	one			CEREAL	,	Grazing	ESTIMATE
Carrying Capacity (dry she	ep equivalent	s winter gra	zed)				10		14	
Estimated return per dse based on self replacing Merino Ewe flock				ock			\$75		\$75	
GROSS INCOME							\$750		\$1,050	
ESTABLISHMENT COSTS	S			Rate/ha		Rate/ha		Rate/ha		
	Cost			Low	\$/ha	Medium	\$/ha	High		
Seed (1)										
Phalaris	\$18.00	-	@			1.5	\$27.00	1.5	\$27.00	
Cocksfoot	\$12.00	J	@			1	\$12.00	1	\$12.00	
Sub clover	\$10.00	/kg	@			4	\$40.00	4	\$40.00	
Seed Inoculant	\$0.05	/ka	@			4	\$0.20	4	\$0.20	
Fertiliser (Bulk)		Ü								
MAP	\$1,300	/tonne	@			70	\$91.00	80	\$104.00	
Trace elements	. ,									
Lime	\$35	/tonne	@			1.5	\$52.50	1.5	\$52.50	
Chemicals-Herbicides	+	- · -	-							
Spring weed control							\$10.00		\$10.00	
Pre-emergents							Ţ.0.00		Ţ.0.00	
Glyphosate 540	\$15.00	/litre	@			1.2	\$18.00	1.2	\$18.00	
Carfentrazone 400	\$149.50	/litre	@			0.02	\$2.99	0.02	\$2.99	
Caroniazono 100	\$43.00	/kg	@			0	\$0.00	0	\$0.00	
Post-emergents	Ψ10.00	/Ng	•				ψ0.00	· ·	ψ0.00	
Bromoxynil 200	\$13.40	/litre	@			1.5	\$20.17	1.5	\$20.17	
Bioinoxyiii 200	\$46.95	/litre	@			0	\$0.00	0		
Insecticides	Ψ10.00	711110	•				ψ0.00	J	ψ0.00	
Dimethoate (2)	\$16.50	/litre	@			0.1	\$1.65	0.1	\$1.65	
Dimethoate (3)	\$16.50	/litre	@			0.1	\$1.65	0.1	\$1.65	
Operations										
Fuel & Oil							\$0.00		\$0.00	
Repairs & Maintenance							\$0.00		\$0.00	
Loss of Grazing in first y	-					4	\$300.00	5	\$375.00	
Total Establishment Co							\$577.16		\$665.16	
Depreciation on establi	shment costs	s over 7 yea	ars				\$92.35		\$106.43	
VARIABLE COSTS										
Fertiliser (Bulk)										
Superphosphate	\$800	/tonne	@			120	\$96.00	150	\$120.00	
Chemicals- <i>Herbicide</i> s Tigrex	\$1 2	/litre	@			0.5	\$6.50	0.75	\$ 9.75	
rigicx	Ψισ	/IIIIC	•			0.5	ψ0.00	0.75	Ψ 3.73	
Insecticides										
Dimethoate (3)	\$16.50	/litre	@			0.1	\$1.65	0.1	\$1.65	
Operations										
Fuel & Oil							\$0.00		\$0.00	
Repairs & Maintenance							\$0.00		\$0.00	
Freight										
Fertiliser (t)	\$25.00	/tonne	@			0.12	\$3.00	0.15	\$3.75	
Contract Work										
Aerial spraying										
Insurance		/\$1000	@				\$0.00		\$0.00	
Other		, ψ1000	•				ψ0.00		ψ0.00	
TOTAL VARIABLE COST	s						\$199		\$242	
GROSS MARGIN/hectar							\$551		\$808	
MAII WITE CLAI	<u> </u>					i	ΨΟΟΙ		ΨΟΟΟ	

COMMENTS
(1) Average prices; prices vary between varieties.
(2) RLEM control.
(3) RLEM control spring.

AGRONOMIC NOTES

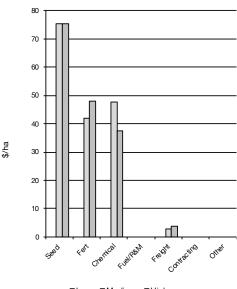
Loss of grazing in first year, assumes 8 months grazing of poor quality pasture.

HIGH RAINFALL CEREAL

		\$60	\$65	\$75	\$75	\$80
	6	\$161	\$191	\$251	\$251	\$281
Carrying	8	\$281	\$321	\$401	\$401	\$441
Capacity	10	\$401	\$451	\$551	\$551	\$601
(dse)	12	\$521	\$581	\$701	\$701	\$761

		HIGH RAINFALL GRAZING						
		GM/dse						
		\$60	\$65	\$75	\$75	\$80		
	8	\$238	\$278	\$358	\$358	\$398		
Carrying	10	\$358	\$408	\$508	\$508	\$558		
Capacity	12	\$478	\$538	\$658	\$658	\$718		
(dse)	14	\$598	\$668	\$808	\$808	\$878		

Variable Costs



□Low □Medium □High

Establishment Machinery Costs

Establishment 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	3.44	4.25
spray	3	1.90	1.26
roll		0.00	0.00
harvest#		0.00	0.00
TOTAL		5.34	5.51

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

Machinery Costs

Machinery Costs- Assuming full ownership of machinery

No.	Repairs & Maint	Fuel
	\$/ha	\$/ha
0	0.00	0.00
2	1.27	0.84
1	2.22	1.89
	0.00	0.00
	3.49	2.73
	0	\$/ha 0 0.00 2 1.27 1 2.22 0.00

Prime Lamb – High Rainfall

Gross Margin

Assumptions			
Ave Breeding Ewe Fibre Diameter	28	Total DSE's (1)	1840
Number of breeding ewes (First Cross)	1000	Stocking rate (DSE/Ha)	12.0
First cross ewe - Terminal meat sire			

							2022
INCOME						¢.	YOUR
Mool (ka aroon)	2420.4	V a	[ava prica	226	c/kg] (2)	\$ \$9,031	ESTIMATE
Wool (kg greasy) Sales	3439.4	animals	[ave price [ave price	\$196.00	,	\$291,780	
GROSS INCOME	1409	ariiriais	[ave price	\$190.00	perriuj	\$300,811	
GROSS INCOME						φ300,611	
VARIABLE COSTS							
Shearing							
Shearing (3)	969	sheep	@	\$331.98		\$3,217	
(Federal awards)	19	rams	@	\$663.96	/100	\$126	
Shed labour	5	days	@	\$250.95	,	\$1,255	
Woolclasser		days	@	\$319.91	•	\$800	
Superannuation (on ordinary	• • • • • • • • • • • • • • • • • • • •		@		wages	\$540	
Work Cover (includes super +	,		@	4.0%		\$237	
Wool packs		packs	@	\$16.00	•	\$320	
Shed sundries		sheep	@	\$0.20		\$198	
Lice control		sheep	@	\$1.70		\$1,675	
Crutch & Wig		ewes	@	\$96.27		\$953	
No - oldo -	19	rams	@	\$192.54	/100	\$37	
Marking	1000	lavala a		#1.0 F	//I	Φ4 00E	
Lamb marking	1300		@	\$1.25		\$1,625	
Pain relief		lambs	@	\$1.39		\$1,810	
Ear tags	1300	lambs	@	\$0.30	/nead	\$390	
Animal Health drench	F.C.C.O.	ah aan	@	\$0.83	/b = = = d	¢4.coo	
vaccinate		sheep	@	\$0.38		\$4,692 \$1,361	
blowfly control		sheep sheep	@	\$1.43			
Stock purchases	1000	sneep	w	Φ1.43	meau	\$1,434	
Purchases	(refer opposite p	age)				\$76,782	
Sale Costs	(refer opposite p	age)				Ψ10,102	
Freight							
livestock	189	culls	@	\$4.00	/head	\$756	
ii vootook		ewes	@	\$4.00		\$854	
	1300	prime lambs	@	\$4.00		\$5,200	
wool		bales	@	\$15.00		\$300	
Stock selling charges	0	24.00	Ü	Ψ.σ.σσ	, 20.0	QUOU	
commission/insurance			@	5.5%	gross \$	\$16,048	
yard fees	1489	head	@	\$0.85	•	\$1,266	
levy-sheep	189	head	@	\$0.20	/head	\$38	
levy-lambs	1300	head	@	\$1.50	/head	\$1,950	
SA sheep industry levy	1489	head	@	\$0.67	/head	\$997	
Wool selling charges							
brokerage/testing/insurance			@	\$0.27	/kg	\$929	
wool levy			@	1.5%	gross	\$135	
Feed and Other Costs							
hay	20.4	tonne	@	\$160.00	/tonne	\$3,264	
grain		tonnes	@	\$300.00	/tonne	\$7,380	
Insurance	\$319,900	value	@	\$2.00	/\$'000	\$640	
Water	1840	DSE's	@	\$1.50		\$2,760	
Veh Fuel, R&M	1840	DSE's	@	\$1.20	/DSE	\$2,208	-
Other	1840	DSE's	@	\$0.50	/DSE	\$920	
TOTAL VARIABLE COSTS	<u> </u>		·			\$143,095	
GROSS MARGIN TOTAL						\$157,716	
GROSS MARGIN/hectare						\$1,029	
GROSS MARGIN/DSE						\$86	

COMMENTS

⁽¹⁾ 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.

⁽²⁾ The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings, locks etc.

⁽³⁾ Many contractors pay above award rates.

⁽⁴⁾ Super/workcover expenses relate only to shearing.

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

GROSS MARGIN/	DCE	Average Weaning Rate (%)							
GROSS MARGIN	DSE	95%	105%	130%	125%	135%	145%		
	\$175	\$41	\$49	\$70	\$66	\$74	\$83		
	\$180	\$43	\$52	\$73	\$69	\$78	\$86		
	\$185	\$46	\$54	\$77	\$72	\$81	\$90		
	\$190	\$48	\$57	\$80	\$75	\$85	\$94		
Average	\$195	\$50	\$60	\$83	\$79	\$88	\$97		
Lamb Sale	\$200	\$53	\$63	\$87	\$82	\$92	\$101		
Price (\$/hd)	\$205	\$55	\$65	\$90	\$85	\$95	\$105		
	\$210	\$58	\$68	\$93	\$88	\$98	\$109		
	\$215	\$60	\$71	\$97	\$91	\$102	\$112		
	\$220	\$63	\$73	\$100	\$95	\$105	\$116		
	\$225	\$65	\$76	\$103	\$98	\$109	\$120		

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)	0.5
Age ewes culled	6.5
Years rams kept	3
Flock death rate	3%
Average weaning rate	130%
% 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	0%						
6.5	100%						

Sales

SALES	Number	Price/hd	Age	Total
c.f.a ewes	182	\$170.00	6.5	\$30,940
c.f.a rams	6	\$140.00	4.5	\$840
lambs (average price)	1300	\$200.00	20 weeks	\$260,000
TOTAL	1489	\$196.00		\$291,780
PURCHASES	Number	Price/hd	Age yrs	Total
ewes	214	\$300	0.5	\$64,071
rams	7	\$1,850	1.5	\$12,711

Stock Health Requirements

		Number of times					
	Number	Drench	Vacc.	Blowfly	DSE		
ewes	1000	3	1	1	1.8		
rams	20	3	1	0	2		
lambs	1300	2	2	0			
TOTAL	2320	5660	3620	1000	1840		

Feeding

		Hay	Kgs Fed	No weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	cost (\$)
ewes	1000	\$160	2.5	8	\$3,200
rams	20	\$160	2.5	8	\$64
		Grain	Kgs Fed	No weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	cost (\$)
ewes	1000	\$300	3.0	8	\$7,200
rams	20	\$300	3.0	10	\$180

Shearing

	Number	Wool cut kg/hd	Price	Total
ewes	969	3.50	\$2.65	\$8,972
crossbred rams	19	2.50	\$1.21	\$59
TOTAL	988	3439		\$9,031

Maternal Prime Lamb – High Rainfall

Gross Margin

Assumptions			
Ave Breeding Ewe Fibre Diameter	28	Total DSE's (1)	1840
Number of breeding ewes (First Cross)	1000	Stocking rate (DSE/Ha)	12.0
First cross ewe - Maternal sire			

INCOME							2022 YOUR
INCOME						\$	ESTIMATE
Wool (kg greasy)	3439.4	Ka	ave price	236	c/kg] (2)	\$9,031	ESTIMATE
Sales		animals	ave price	\$203.34		\$302,700	
GROSS INCOME		aa.s	[are pines	\$200.0 .	po:aj	\$311,731	
						4011,101	
VARIABLE COSTS							
Shearing							
Shearing (3)	969	sheep	@	\$331.98	/100	\$3,217	
(Federal awards)	19	rams	@	\$663.96	/100	\$126	
Shed labour	5	days	@	\$250.95	/day	\$1,255	
Woolclasser	2.50	days	@	\$319.91	/day	\$800	
Superannuation (on ordinary	wages only) (4)		@	10.0%	wages	\$540	
Work Cover (includes super +	o'time etc)		@	4.0%	total	\$237	
Wool packs	20	packs	@	\$16.00	•	\$320	
Shed sundries	988	sheep	@	\$0.20	/head	\$198	
Lice control	988	sheep	@	\$1.70	/head	\$1,675	
Crutch & Wig	990	ewes	@	\$96.27	/100	\$953	
	19	rams	@	\$192.54	/100	\$37	
Marking							
Lamb marking	1300	lambs	@	\$1.25	/head	\$1,625	
Pain relief	1300	lambs	@	\$1.39	/head	\$1,810	
Ear tags	1300	lambs	@	\$0.30	/head	\$390	
Animal Health							
drench	5660	sheep	@	\$0.83	/head	\$4,692	
vaccinate	3620	sheep	@	\$0.38	/head	\$1,361	
blowfly control	1000	sheep	@	\$1.43	/head	\$1,434	
Stock purchases							
Purchases	(refer opposite p	age)				\$76,782	
Sale Costs							
Freight							
livestock	189	culls	@	\$4.00	/head	\$756	
	214	ewes	@	\$4.00	/head	\$854	
	754	prime lambs	@	\$4.00	/head	\$3,016	
wool	20	bales	@	\$15.00	/bale	\$300	
Stock selling charges							
commission/insurance			@	5.5%	gross \$	\$16,649	
yard fees	1489	head	@	\$0.85	/head	\$1,266	
levy-sheep	189	head	@	\$0.20	/head	\$38	
levy-lambs	754	head	@	\$1.50		\$1,131	
SA sheep industry levy	1489	head	@	\$0.67	/head	\$997	
Wool selling charges							
brokerage/testing/insurance			@	\$0.27	/kg	\$929	
wool levy			@	1.5%	gross	\$135	
Feed and Other Costs							
hay		tonne	@	\$160.00		\$3,264	
grain		tonnes	@	\$300.00		\$7,380	
Insurance	\$319,900		@		/\$'000	\$640	
Water		DSE's	@	\$1.50		\$2,760	
Veh Fuel, R&M		DSE's	@	\$1.20		\$2,208	
Other	1840	DSE's	@	\$0.50	/DSE	\$920	
TOTAL VARIABLE COSTS						\$140,693	
GROSS MARGIN TOTAL						\$171,038	
GROSS MARGIN/hectare						\$1,115	
GROSS MARGIN/DSE						\$93	

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

⁽³⁾ Many contractors pay above award rates .

⁽⁴⁾ Super/workcover expenses relate only to shearing.

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

GROSS MARGIN	/DCF	Average Weaning Rate (%)					
GRUSS MARGIN	/DSE	110%	120%	130%	140%	150%	160%
	\$183	\$58	\$67	\$76	\$84	\$93	\$102
	\$188	\$61	\$70	\$79	\$88	\$97	\$106
	\$193	\$64	\$73	\$82	\$92	\$101	\$110
	\$198	\$66	\$76	\$86	\$95	\$105	\$114
Average	\$203	\$69	\$79	\$89	\$99	\$109	\$119
Lamb Sale	\$208	\$72	\$82	\$92	\$102	\$113	\$123
Price (\$/hd)	\$213	\$75	\$85	\$96	\$106	\$116	\$127
	\$218	\$78	\$88	\$99	\$110	\$120	\$131
	\$223	\$81	\$91	\$102	\$113	\$124	\$135
	\$228	\$83	\$95	\$106	\$117	\$128	\$139
	\$233	\$86	\$98	\$109	\$120	\$132	\$143

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	130%
% 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	0%				
6.5	100%				

Sales

SALES	Number	Price/hd	Age	Total
c.f.a ewes	182	\$170.00	6.5	\$30,940
c.f.a rams	6	\$140.00	4.5	\$840
Ewe lambs	546	\$220.00	0.5	\$120,120
Wether lambs & cull ewe lambs	754	\$200.00	20 weeks	\$150,800
TOTAL	1489	\$203.34		\$302,700
PURCHASES	Number	Price/hd	Age yrs	Total
ewes	214	\$300	1.5	\$64,071
rams	7	\$1,850	1.5	\$12,711

Stock Health Requirements

		Number of times			
	Number	Drench	Vacc.	Blowfly	DSE
ewes	1000	3	1	1	1.8
rams	20	3	1	0	2
lambs	1300	2	2	0	
TOTAL	2320	5660	3620	1000	1840

Feeding

		Hay	Kgs Fed	No weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	cost (\$)
ewes	1000	\$160	2.5	8	\$3,200
rams	20	\$160	2.5	8	\$64
		Grain	Kgs Fed	No weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	cost (\$)
ewes	1000	\$300	3.0	8	\$7,200
rams	20	\$300	3.0	10	\$180

Shearing

	Number	Wool cut kg/hd	Price	Total
ewes crossbred rams	969 19	3.50 2.50	\$2.65 \$1.21	\$8,972 \$59
TOTAL	988	3439		\$9,031

SR Merino - High Rainfall

Gross Margin

Assumptions			
Ave Breeding Ewe Fibre Diameter	19	Total DSE's (1)	2420
Number of breeding ewes	1000	Stocking rate (DSE/Ha)	12.0

INCOME							2022 YOUR
INCOME						\$	ESTIMATE
Wool (kg greasy)	9317	Kg	[ave price	945	c/kg] (2)	\$88,049	
Sales		animals	ave price	\$207.33		\$188,990	
GROSS INCOME						\$277,039	
VARIABLE COSTS							
Shearing							
Shearing (3)	2399	sheep	@	\$331.98	/100	\$7,964	
(Federal Awards)		rams	@	\$663.96		\$166	
Shed labour		days	@	\$250.95		\$3,011	
Woolclasser		days	@	\$319.91	•	\$1,919	
Superannuation (on ordinary w		•	@		wages	\$1,306	
Work Cover (includes super + c		,	@		total	\$575	
Wool packs	,	packs	@	\$16.00		\$880	
Shed sundries		sheep	@	\$0.20	•	\$485	
Lice Control		sheep	@	\$1.70		\$4,107	
Crutch & wig	1449	•	@	\$1.70 \$96.27		\$4,107 \$1,395	
Crutch & wig			@	•			
Manufata a	25	rams	w	\$192.54	/100	\$48	
Marking	000			A 4 50		A4 050	
Lamb marking		lambs	@	\$1.50		\$1,350	
Pain relief		lambs	@	\$1.62		\$1,462	
Ear tags	900	lambs	@	\$0.30	/head	\$270	
Animal Health							
drench		sheep	@	\$0.91		\$3,648	
vaccinate	3400	sheep	@	\$0.38		\$1,278	
blowfly control	1525	sheep	@	\$1.43	/head	\$2,187	
Sale and Purchase Costs							
Purchases	7	Merino rams	@	\$2,500.00	/head	\$17,500	
Freight	912	sheep	@	\$4.00	/head	\$3,648	
	55	bales	@	\$15.00	/bale	\$825	
Stock selling charges							
commission/insurance			@	5.5%	gross	\$10,394	
yard fees	912	head	@	\$0.85	/head	\$775	
Sheep trans levy	437	head	@	\$0.20	/head	\$87	
Lamb trans levy	475	head	@	\$1.50	/head	\$713	
SA sheep industry levy		head	@	\$0.67		\$611	
Wool selling charges							
brokerage/testing/insurance			@	\$0.27	/kg	\$2,516	
Industry levy			@		gross	\$1,321	
Feed and other Costs			Ü		5	¥ .,02 i	
Hand Feeding						\$7,452	
Insurance	\$507,961	value	@	\$2.00	/\$'000	\$1,016	
Water	. ,	DSE's	@	\$1.50		\$3,630	
Veh Fuel. R&M		DSE's	@	\$1.20		\$2,904	
Other		DSE's	@	\$0.50		\$1,210	
TOTAL VARIABLE COSTS	2420	DOL 3	*	Ψ0.50	,500	\$86,653	
GROSS MARGIN TOTAL						\$190,387	
GROSS MARGIN/hectare						\$190,387	
GROSS MARGIN /DSE						\$79	

⁽²⁾ The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings, locks etc.

⁽³⁾ Many contractors pay above award rates.

⁽⁴⁾ Super/workcover expenses relate only to shearing.

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

GROSS MARG	IN/DCE		Average Gre	asy Wool Price (c/	Kg)		
GRUSS MARG	III/DSE	750	800	945	900	950	1000
	\$160	\$54	\$56	\$62	\$60	\$62	\$64
	\$165	\$56	\$58	\$64	\$62	\$64	\$66
	\$170	\$58	\$60	\$65	\$64	\$66	\$67
	\$175	\$60	\$62	\$67	\$65	\$67	\$69
Average	\$180	\$62	\$63	\$69	\$67	\$69	\$71
Sale Price	\$185	\$63	\$65	\$71	\$69	\$71	\$73
All Sheep	\$207	\$71	\$73	\$79	\$77	\$79	\$81
(\$/hd)	\$190	\$65	\$67	\$73	\$71	\$73	\$75
	\$195	\$67	\$69	\$74	\$73	\$74	\$76
	\$200	\$69	\$71	\$76	\$74	\$76	\$78
	\$205	\$70	\$72	\$78	\$76	\$78	\$80

Flock Structure

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

	This table snews the number of meting sneep 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	475	212	206	200	194	188	0						
Wethers	0	0	0	0	0	0	0						
Rams		7	6	6	6	0	0						

Production Data

Stocking rate (DSE/Ha)	12.0
Total DSE's	2420
SHEEP GRAZING AREA	285
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	90%

Culling Rate (% per each group)									
Age group	Ewes	Wethers							
0.5	0%	100%							
1.5	54%	0%							
2.5	0%	0%							
3.5	0%	0%							
4.5	0%	0%							
5.5	0%	0%							
6.5	100%	0%							

Sales

SALES	Number	Price/hd	Total
c.f.a ewes	182	\$170.00	\$30,940
c.f.a merino rams	6	\$140.00	\$840
Ewe hoggets	248	\$270.00	\$66,960
Wether lambs (average price)	475	\$190.00	\$90,250
TOTAL	912	\$207.33	\$188,990

Stock Health Requirements

		Number of times				
	Number	DSE	Drench	Vacc.	Blowfly	
ewes	1000	1.8	2	1	1	
ewe hoggets	475	1.2	2	1	1	
wether weaners	0	0.8	1	1	0	
merino lambs	950	0.0	1	2	0	
merino rams	25	2.0	4	1	2	
TOTAL	2450	2420	4000	3400	1525	
TOTAL VALUE	\$507,961					

Feeding

	Number of	Feed			Total
Feed	Animals	Cost (\$/T)	kg/	Animal	cost (\$)
Oats/barley	833	\$300	10	/ewe	\$2,499
Lupins	833	\$410	10	/ewe	\$3,415
Lupins	375	\$410	10	/weaner	\$1,538
TOTAL					\$7,452

Shearing

		Wool cut	Total	Yield	Total
	Number	kg/hd	Greasy kg	(%)	Clean kg
ewes	981	5.70	5590	70%	3913
ewe hoggets	468	4.50	2105	70%	1474
wether weaners	0	4.50	0	70%	0
lambs	950	1.50	1425	70%	998
merino rams	25	8.00	197	70%	138
Adults	1473	5.68	7892	·	•
TOTAL	2423		9317		6522

Merino Wethers - High Rainfall

Gross Margin

Assumptions:			
Average Wether Fibre Diametre	19	Total DSE's (1)	1200
Number of adult wethers	1000	Stocking rate (DSE/Ha)	12.0

INCOME							2022 YOUR
						\$	ESTIMATE
Wool (kg greasy)	6790	Kg	[ave price	945	c/kg] (2)	\$64,166	
Sales	182	animals	[ave price	\$185.00	per hd]	\$33,738	
GROSS INCOME						\$97,903	
EXPENSES							
Shearing							
Shearing (3)	970	sheep	@	\$331.98	/100	\$3,220	
Shed labour		days	@	\$250.95	/dav	\$1,255	
Woolclasser		days	@	\$319.91	/day	\$800	
Superannuation (on ordinary v		-	@		wages	\$527	
Work Cover (on wages+super-		,	@	4.0%	-	\$232	
Wool packs	,	packs	@	\$16.00		\$640	
Shed sundries		sheep	@	\$0.20	•	\$194	
Lice control		sheep	@	\$1.70		\$1,644	
Crutching		sheep	@	\$96.27		\$963	
Animal Health		олоор	<u> </u>	Ψ00.2.	,	,	
drench	1000	sheep	@	\$0.61	/head	\$608	
vaccinate		sheep	@	\$0.38		\$376	
blowfly control		sheep	@	\$1.43		\$2.868	
Other Expenses		sheep	@	\$0.00		\$0	
Stock Purchases	O	зпеер	•	Ψ0.00	/iieau	ΨΟ	
Purchases	212	wethers	@	\$145.00	/head	\$30,740	
Sale costs and other	212	Wethers	•	Ψ145.00	/iieau	Ψ50,7 40	
Freight						-	
livestock	395		@	\$4.00	/hoad	\$1,580	
wool		bales	@	\$15.00		\$600	
Stock selling charges	40	Dales	•	φ15.00	/Dale	\$000	
commission/insurance			@	E E 0/	gross	\$1,856	
	100	head	@		/head	\$1,656	
yard fees		head	@	*****		\$36	
transaction levy		head	@	\$0.20 \$0.67	/head	\$36 \$122	
SA sheep industry levy	102	nead	w	\$0.67	mead	\$122	
Wool selling charges				\$0.07	//	# 1 000	
brokerage/testing/insurance			@	\$0.27	•	\$1,833	
Industry levy			@	1.50%	gross	\$962	
Other Expenses						#0.400	
Hand Feeding	105000			#0.00	/ \$1000	\$2,400	
Insurance	165000		@		/\$'000 /DOE	\$330	
Water		DSE's	@	\$1.50		\$1,800	
Veh Fuel, R&M		DSE's	@	\$1.00		\$1,200	
Other Expenses	1200	DSE's	@	\$0.50	/DSE	\$600	
TOTAL VARIABLE COSTS						\$57,541	
GROSS MARGIN						\$40,362	
GROSS MARGIN/hectare						\$404	
GROSS MARGIN/DSE						\$34	

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

⁽³⁾ Many contractors pay above award rates.(4) Super/workcover expenses relate only to shearing.

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

CROSS MARCIN	ROSS MARGIN/DSE Average Greasy Wool Price (c/Kg)						
GROSS MARGIN	/DSE	1050	1100	945	1200	1250	1300
	\$160	\$36	\$39	\$30	\$44	\$47	\$50
	\$165	\$37	\$39	\$31	\$45	\$48	\$51
	\$170	\$37	\$40	\$31	\$46	\$48	\$51
	\$175	\$38	\$41	\$32	\$46	\$49	\$52
Average	\$180	\$39	\$42	\$33	\$47	\$50	\$53
Sale Price	\$185	\$39	\$42	\$34	\$48	\$51	\$53
of wethers	\$190	\$40	\$43	\$34	\$49	\$51	\$54
(\$/hd)	\$195	\$41	\$44	\$35	\$49	\$52	\$55
	\$200	\$42	\$44	\$36	\$50	\$53	\$56
	\$205	\$42	\$45	\$37	\$51	\$54	\$56
	\$210	\$43	\$46	\$37	\$51	\$54	\$57

Production Data

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 I	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%	

Sales

SALES	Number	Price/hd	Age	Total
c.f.a wethers	182	\$185.00	5.5	\$33,670
TOTAL	182			\$33,670
PURCHASES	Number	Price/hd	Age yrs	Total
wethers	212	\$145	0.5	\$30,793

Stock Value and DSE Requirement

		Value	Ave Live	DSE
	Number	\$/head	Wt (Kgs)	rating
wethers	1000	\$165	55	1.2
TOTAL	1000			

Stock Health Requirements

		Number of times					
	Number	Drench	Vacc.	Blowfly	rating		
wethers	1000	2	1	2	1.2		
TOTAL	1000	2000	1000	2000	1200		

Hand Feeding

	kg fed	/animal	\$/tonne	Total
Oats/barley		kg/wether	300	\$0
Hay	15	kg/wether	160	\$2,400
Lupins		kg/wether	410	\$0
TOTAL			-	\$2,400

Shearing

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

Lamb Trading - High Rainfall

Gross Margin

Assumptions:				
Number of lambs	1000		Total DSE's (1)	600
Average Lamb Fibre Diametre	20		Number of lambs shorn	100%
Lambs bought at	35	kg liveweight	Stocking rate (DSE/Ha)	12.0
Lambs sold at	55	kg liveweight	@	875 c/kg dwt

							2022
						\$	YOUR ESTIMATE
1500	Kg	[ave	price	945	c/kg 1 (2)	\$14,175	
	•	•	•			\$202,799	
						\$216,974	
1000	sheep		@	\$331.98	/100	\$3.320	
			@			\$502	
	,		@		•	\$320	
	•		@		•	\$414	
			@		•	\$182	
,	packs		@	\$16.00	/pack	\$144	
	•		@		•	\$200	
			@			\$1,695	
			@	\$96.27	/100	\$0	
	·					·	
1000	sheep		@	\$0.66	/head	\$663	
1000	sheep		@	\$0.38	/head	\$376	
500	sheep		@	\$1.43	/head	\$717	
0	sheep		@	\$0.00	/head	\$0	
	·						
1000	lambs		@	\$150.00	/head	\$150,000	
1980			@	\$4.00	/head	\$7,920	
9	bales		@	\$15.00	/bale	\$135	
						·	
			@	5.5%	gross	\$11,154	
980	head		@		-	\$833	
980	head		@	\$1.50	/head	\$1.470	
980	head		@	\$0.67	/head	\$657	
			@	\$0.27	/kg	\$405	
			@	1.50%	gross	\$213	
					-		
		0	@	\$0.00	/hd	\$0	
178468.75	value		@			\$357	
600	DSE's		@	\$1.50	/DSE	\$900	
600	DSE's		@	\$1.00	/DSE	\$600	
600	DSE's		@			\$300	
						\$670	
						\$56	
	980 1000 2 1 vages only) (4) -o'time etc) 9 1000 1000 500 0 1000 1980 9 980 980 980 980 980 600 600	1 days //ages only) (4) -o'time etc) 9 packs 1000 sheep 1000 sheep 1000 sheep 1000 sheep 500 sheep 0 sheep 1000 lambs 1980 9 bales	980 animals [ave 1000 sheep 2 days 1 days (ages only) (4) -o'time etc) 9 packs 1000 sheep 1000 sheep 1000 sheep 500 sheep 0 sheep 0 sheep 1000 lambs 1980 9 bales 980 head 980 head 980 head 980 head 980 head 980 head 980 SE's 600 DSE's	980 animals [ave price] 1000 sheep @ 2 days @ 1 days @ 2	1000 sheep	980 animals [ave price \$206.94 per hd] 1000 sheep @ \$331.98 /100 2 days @ \$250.95 /day 1 days @ \$319.91 /day /ages only) (4) @ 10.0% wages -o'time etc) @ 4.0% total 9 packs @ \$16.00 /pack 1000 sheep @ \$0.20 /head 1000 sheep @ \$0.20 /head 1000 sheep @ \$1.70 /head 0 sheep @ \$96.27 /100 1000 sheep @ \$0.66 /head 1000 sheep @ \$0.38 /head 500 sheep @ \$0.38 /head 500 sheep @ \$1.43 /head 0 sheep @ \$1.50.00 /head 1000 lambs @ \$150.00 /head 1980 @ \$4.00 /head 1980 @ \$4.00 /head 1980 head @ \$0.85 /head 980 head @ \$0.67 /head 980 head @ \$0.67 /head @ \$0.27 /kg @ 1.50% gross 0 @ \$0.00 /hd 178468.75 value @ \$2.00 /\$'000 600 DSE's @ \$1.50 /DSE 600 DSE's @ \$1.50 /DSE 600 DSE's @ \$1.50 /DSE	\$206.94 per hd \$202,799 \$216,974 \$216

⁽¹⁾ 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. (2) The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings,locks etc. (3) Many contractors pay above award rates. (4) Super/workcover expenses relate only to shearing. No allowance has been made for pasture expenses such as seed, fertiliser and chemicals. These need to be separately accounted for. Refer to pasture Gross Margin.

CDOSS MARCIN	/DCE	Average Greasy Wool Price (c/Kg)							
GROSS MARGIN/DSE		650	700	945	800	850	900		
	\$140	(\$55)	(\$54)	(\$47)	(\$51)	(\$50)	(\$49)		
	\$145	(\$47)	(\$46)	(\$40)	(\$43)	(\$42)	(\$41)		
	\$150	(\$39)	(\$38)	(\$32)	(\$36)	(\$34)	(\$33)		
	\$145	(\$47)	(\$46)	(\$40)	(\$43)	(\$42)	(\$41)		
Average	\$150	(\$39)	(\$38)	(\$32)	(\$36)	(\$34)	(\$33)		
Sale Price	\$207	\$49	\$50	\$56	\$52	\$53	\$55		
of lambs	\$160	(\$24)	(\$23)	(\$17)	(\$20)	(\$19)	(\$18)		
(\$/hd)	\$165	(\$16)	(\$15)	(\$9)	(\$12)	(\$11)	(\$10)		
	\$170	(\$8)	(\$7)	(\$1)	(\$5)	(\$4)	(\$2)		
	\$175	(\$1)	\$1	\$7	\$3	\$4	\$5		
	\$180	\$7	\$8	\$14	\$11	\$12	\$13		

Production Data

Stocking rate (DSE/Ha)	12.0
Total DSE's	600
SHEEP GRAZING AREA	50
Number of lambs	1000
Flock death rate	2%
Age bought (yrs)	0.5
Age sold	0.8

Sales

SALES	Number	Price/hd	Age	Total
Prime lambs	980	\$206.94	0.8	\$202,799
TOTAL	980			\$202,799
PURCHASES	Number	Price/hd	Age yrs	Total
Store lambs	1000	\$150	0.5	\$150,000

Stock Value and DSE Requirement

		Value	Ave Live	DSE
	Number	\$/head	Wt (Kgs)	rating
lambs	1000	\$178	45	0.8
TOTAL	1000			

Stock Health Requirements

	Number of times				DSE
	Number	Drench	Vacc.	Blowfly	rating
Lamb	1000	1	1	1	0.6
TOTAL	1000	1000	1000	1000	600

Shearing

		Wool cut	Total	Yield	Total
	Number	kg/hd	Greasy kg	(%)	Clean kg
lambs	1000	1.50	1500	70%	1050
TOTAL	1000		1500		1050

Prime Lamb - Cereal Zone

Gross Margin

Assumptions			
Ave Breeding Ewe Fibre Diameter	21	Total DSE's (1)	1850
Number of breeding ewes (Merino)	1000	Stocking rate (DSE/Ha)	6.0
Merino ewe - Terminal meat sire			

							2022
INCOME							YOUR
						\$	ESTIMATE
Wool (kg greasy)	6378	-	[ave price		c/kg] (2)	\$51,547	
Sales	1339	animals	[ave price	\$186.25	per hd]	\$249,560	
GROSS INCOME						\$301,107	
VARIABLE COSTS						-	
Shearing							
Shearing (3)	970	sheep	@	\$331.98	/100	\$3,220	
(Federal awards)	24	rams	@	\$663.96	/100	\$159	
Shed labour	5	days	@	\$250.95	/day	\$1,255	
Woolclasser 2	.5	days	@	\$319.91	/day	\$800	
Superannuation (on ordinary	wages only) (4))	@	10.00%	total	\$543	
Work Cover (includes super +	o'time etc)		@	4.00%	wages	\$239.10	
Wool packs	38	packs	@	\$16.00	/pack	\$608	
Shed sundries	994	sheep	@	\$0.20	/head	\$199	
Lice control	994	sheep	@	\$1.70	/head	\$1,685	
Crutch & Wig	0	lambs	@	\$96.27	/100	\$0	
	1019	ewes	@	\$96.27		\$981	
Marking							
Lamb marking	1100	lambs	@	\$1.25	/head	\$1,375	
Pain relief	2125	lambs	@	\$1.39	/head	\$2,958	
Ear tags	1100	lambs	@	\$0.30	/head	\$330	
Animal Health							
drench	2150	sheep	@	\$0.55	/head	\$1,187	
vaccinate		sheep	@	\$0.28	/head	\$903	
blowfly control		sheep	@	\$1.43	/head	\$1,434	
Stock purchases		•					
Purchases (r	efer to opposite	e page)				\$78,266	
Sale Costs							
Freight						-	
livestock	239	culls	@	\$4.00	/head	\$956	
		ewes	@	\$4.00		\$1,046	
	1100	prime lambs	@	\$4.00		\$4,400	
wool	38	bales	@	\$15.00	/bale	\$570	
Stock selling charges							
commissioninsurance			@	5.5%	gross	\$13,726	
yard fees	1339	head	@		/head	\$1,138	
levy-sheep	239	head	@	\$0.20	/head	\$48	
levy-lambs	1100	head	@	\$1.50	/head	\$1,650	
SA sheep industry levy	1339		@	\$0.67		\$897	
Wool selling charges							
brokerage/testing/insurance			@	\$0.27	kg	\$1,722	
Industry levy			@		gross	\$773	
Feed and Other Costs					-		
Water	1850	DSE's	@	\$2.50	/DSE	\$4,625	
Veh Fuel, R&M		DSE's	@	\$1.20		\$2,220	
Other		DSE's	@	\$0.50		\$925	
hay		tonne	@	\$160.00		\$3,280	
grain		tonnes	@	\$300.00		\$7,425	
Insurance	\$282,750		@		/\$'000	\$566	
TOTAL VARIABLE COSTS						\$142,110	
GROSS MARGIN TOTAL						\$158,997	
GROSS MARGIN/hectare						\$516	
GROSS MARGIN/DSE						\$86	

COMMENTS

⁽¹⁾ 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.

⁽²⁾ The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings, locks etc.

⁽³⁾ Many contractors pay above award rates.

⁽⁴⁾ Super/workcover expenses relate only to shearing.

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

GROSS MARGIN	W/DCE	Average Weaning Rate (%)					
GROSS MARGII	N/D3E	90%	100%	110%	120%	130%	140%
	\$165	\$58	\$66	\$73	\$81	\$89	\$97
	\$170	\$60	\$68	\$76	\$84	\$93	\$101
	\$175	\$62	\$71	\$79	\$88	\$96	\$104
	\$180	\$65	\$73	\$82	\$91	\$99	\$108
Average	\$185	\$67	\$76	\$85	\$94	\$103	\$112
Lamb Sale	\$190	\$69	\$78	\$88	\$97	\$106	\$115
Price (\$/hd)	\$195	\$71	\$81	\$90	\$100	\$109	\$119
	\$200	\$74	\$83	\$93	\$103	\$113	\$122
	\$205	\$76	\$86	\$96	\$106	\$116	\$126
	\$210	\$78	\$89	\$99	\$109	\$119	\$129
	\$215	\$81	\$91	\$102	\$112	\$123	\$133

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	110%
% Lambs carried over	0%

Culling Rate (% from each group)						
Ewes	Wethers					
0%						
0%						
0%						
0%						
0%						
100%						
0%						
	Ewes 0% 0% 0% 0% 0% 100%					

Sales

SALES	Number	Price/hd	Age	Total
c.f.a ewes	232	\$170.00	5.5	\$39,440
c.f.a rams	8	\$140.00	4.5	\$1,120
lambs	1100	\$190.00	20 weeks	\$209,000
TOTAL	1339	186.25		\$249,560
PURCHASES	Number	Price/hd	Age yrs	Total
ewes	262	\$250	1.5	\$65,384
rams	9	\$1,500	1.5	\$12,883

Stock Health Requirements

		Number of times			
	Number	Drench	Vacc.	Blowfly	DSE
ewes	1000	1	1	1	1.8
rams	25	2	1	0	2
lambs	1100	1	2	0	
TOTAL	2125	2150	3225	1000	1850

Feeding

		Hay	Kgs Fed	No weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	cost (\$)
ewes	1000	\$160	2.5	8	\$3,200
rams	25	\$160	2.5	8	\$80
lambs (35% sold without need for hay)	660	\$160	2.5	5	\$1,320
		Grain	Kgs Fed	No weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	cost (\$)
ewes	1000	\$300	3.0	8	\$7,200
rams	25	\$250	3.0	10	\$188
lambs (35% sold without need for grain)	660	\$250	6.0	5	\$4,950

	Number	Wool cut kg/hd	Price	Total \$
ewes crossbred rams	970 24	6.50 3.00	\$8.16 \$1.34	
TOTAL	994	6378		51547

SR Merino - Cereal Zone

Gross Margin

Assumptions			
Ave Breeding Ewe Fibre Diameter	21	Total DSE's (1)	2420
Number of breeding ewes	1000	Stocking rate (DSE/Ha)	6.0

							2022
INCOME						\$	YOUR ESTIMATE
Wool (kg greasy)	11080	Ka	ave price	734	c/kg] (2)	\$81,371	LOTIMATE
Sales		animals	ave price	\$181.76	,	\$165,685	
GROSS INCOME	312	ammais	[ave price	ψ101.70	perriaj	\$247.056	
GI 1000 IIIOOIIIE						ΨΣ+1,000	
VARIABLE COSTS							
Shearing							
Shearing (3)	2398	sheep	@	\$331.98	/100	\$7,961	
(Federal Awards)		rams	@	\$663.96		\$166	
Shed labour	8	days	@	\$250.95		\$2.008	
Woolclasser		days	@	\$319.91		\$1,280	
Superannuation (on ordinary wa		,	@		wages	\$1,141	
Work Cover (includes super + o			@		total	\$502	
Wool packs	,	packs	@	\$16.00		\$1,040	
Shed sundries		sheep	@	\$0.20	•	\$485	
Lice control		sheep	@	\$1.70		\$4,107	
Crutch & wig		sheep	@	\$96.27		\$1,394	
oraton a mg		rams	@	\$192.54		\$48	
Marking			<u> </u>	ψ.σ <u>2.</u> σ.	7.00	4.0	
Lamb marking	950	lambs	@	\$1.50	/head	\$1,425	
Pain relief	900		@	\$1.62		\$1,462	
Ear tags		lambs	@	\$0.30		\$285	
Animal Health	300	iamb3	•	ψ0.00	/IICaa	Ψ200	
drench	2475	sheep	@	\$0.55	/head	\$1,366	
vaccinate		sheep	@	\$0.28		\$952	
blowfly control		sheep	@	\$1.43		\$2,151	
Sale and Purchase Costs	1000	эпсер	•	Ψ1.40	mead	Ψ2,101	
Purchases	7	Merino rams	@	\$2,500.00	/head	\$17,500	
Freight		sheep	@	\$4.00		\$3,648	
regnt		bales	@	\$15.00		\$975	
Stock selling charges	03	Daies	•	Ψ13.00	/ Dale	Ψ913	
commission/insurance			@	5 5%	gross	\$9.113	
yard fees	012	head	@	\$0.85	-	\$775	
sheep tran levy		head	@	\$0.20		\$87	
lamb trans levy		head	@	\$1.50		\$713	
SA Sheep industry levy		head	@	\$0.67		\$611	
wool selling charges	312	Troad	•	ψ0.07	/IICaa	ΨΟΙΙ	
brokerage/testing/insurance			@	\$0.27	/ka	\$2,992	
Industry levy			@		gross	\$1,221	
Feed and other Costs			•	1.070	91033	Ψ1,221	
Hand Feeding						\$12,348	
Insurance	\$445,322	value	@	\$2.00	/\$'000	\$891	
Water		DSE's	@	\$2.50		\$6,050	
Veh Fuel. R&M		DSE's	@	\$1.20		\$2,904	
Other		DSE's	@	\$0.50		\$1,210	
TOTAL VARIABLE COSTS	2420	DOL 3	<u> </u>	Ψ0.50	, DOL	\$88,808	
GROSS MARGIN TOTAL						\$158,248	
GROSS MARGIN/hectare						\$138,248	
GROSS MARGIN/DSE						\$65	
anoce mandin/bot						405	

COMMENTS

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

⁽¹⁾ 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.

⁽²⁾ The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings,locks etc.

⁽³⁾ Many contractors pay above award rates.

⁽⁴⁾ Super/workcover expenses relate only to shearing.

GROSS MARGII	W/DCE	Average Greasy Wool Price (c/Kg)						
GRUSS WARGII	WDSE	550	600	734	700	750	800	
	\$105	\$30	\$32	\$38	\$37	\$39	\$41	
	\$110	\$32	\$34	\$40	\$38	\$41	\$43	
	\$115	\$33	\$36	\$42	\$40	\$42	\$45	
	\$120	\$35	\$37	\$43	\$42	\$44	\$46	
Average	\$125	\$37	\$39	\$45	\$44	\$46	\$48	
Sale Price	\$130	\$39	\$41	\$47	\$45	\$48	\$50	
All Sheep	\$182	\$57	\$59	\$65	\$64	\$66	\$68	
(\$/hd)	\$140	\$42	\$44	\$51	\$49	\$51	\$53	
	\$145	\$44	\$46	\$52	\$51	\$53	\$55	
	\$150	\$46	\$48	\$54	\$53	\$55	\$57	
	\$155	\$48	\$50	\$56	\$54	\$57	\$59	

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	475	234	216	199	183	169	0
Wethers	0	0	0	0	0	0	0
Rams		7	6	6	6	0	0

Production Data

Stocking rate (DSE/Ha)	6.0
Total DSE's	2420
SHEEP GRAZING AREA	285
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	95%
Prime lamb weaning %	0%
% mated for prime lms	0%

Culling Rate (% per each group)					
Age group	Ewes	Wethers			
0.5	0%	100%			
1.5	49%	0%			
2.5	5%	0%			
3.5	5%	0%			
4.5	5%	0%			
5.5	5%	0%			
6.5	100%	0%			

Sales

SALES	Number	Price/hd	Total
c.f.a ewes	204	\$170.00	\$34,680
c.f.a merino rams	6	\$140.00	\$840
ewe hoggets	227	\$270.00	\$61,290
wether lambs 35kg store	475	\$145.00	\$68,875
TOTAL	912	\$181.76	\$165,685

Stock Health Requirements

		Number of times					
	Number	DSE	Drench	Vacc.	Blowfly		
ewes	1000	1.8	1	1	1		
ewe hoggets	475	1.2	1	1	1		
wether weaners	0	0.8	1	1	1		
merino lambs	950	0.0	1	2	0		
merino rams	25	2.0	2	1	1		
TOTAL	2450	2420	2475	3400	1500		
TOTAL VALUE	\$445,322			-	_		

Feeding

	Number of	Fodder			Total
Feed	Animals	Cost (\$/T)	kg/	Animal	cost (\$)
Oats/barley	1000	\$300	24	/ewe	\$7,200
Hay	1000	\$160	20	/ewe	\$3,200
Lupins	475	\$410	10	/weaner	\$1,948
TOTAL					\$12,348

		Wool cut	Total	Yield	Total
	Number	kg/hd	Greasy kg	(%)	Clean kg
ewes	980	6.50	6373	68%	4333
ewe hoggets	468	5.50	2573	68%	1750
wether weaners	0	5.00	0	68%	0
lambs	950	2.00	1900	68%	1292
merino rams	25	9.50	234	68%	159
Adults	1473	6.63	9180		
TOTAL	2423		11080		7534

Merino Wethers - Cereal Zone

Gross Margin

Assumptions:			
Average Wether Fibre Diameter	21	Total DSE's (1)	1200
Number of adult wethers	1000	Stocking rate (DSE/Ha)	6.0

							2022
INCOME						\$	YOUR ESTIMATE
Wool (kg greasy)	7275	Kg	ave price	734	c/kg] (2)	\$53,428	
Sales		animals	[ave price	\$185.00	,	\$33,738	
GROSS INCOME			,	,	,	\$87,165	
EXPENSES						_	
Shearing			•	4001.00	4.00	40.000	
Shearing (3)		sheep	@	\$331.98		\$3,220	
Shed labour	4	days	@	\$250.95	,	\$1,004	
Woolclasser		days	@	\$319.91	•	\$640	
Superannuation (on ordinary	wages only) (4)	@		wages	\$486	
Work Cover (on wages+super	+o'time etc)		@	4.0%	total	\$214	
Wool packs	43	packs	@	\$16.00	/pack	\$688	
Shed sundries	970	sheep	@	\$0.20	/head	\$194	
Lice control	970	sheep	@	\$1.70	/head	\$1,644	
Crutching	1000	sheep	@	\$96.27	/100	\$963	
Animal Health							
drench	1000	sheep	@	\$0.55	/head	\$552	
vaccinate		sheep	@	\$0.28	/head	\$280	
blowfly control		sheep	@	\$1.43	/head	\$1,434	
Other Expenses		sheep	@	\$0.00		\$0	
Stock Purchases	Ü	опсор	•	Ψ0.00	///odd	Ψ0	
Purchases	212	wethers	@	\$145.00	/hoad	\$30.740	
Sale costs and other	212	welliels	•	\$145.00	/IIeau	\$30,740	
						_	
Freight	005			\$4.00	/	¢4 500	
livestock	395		@	\$4.00		\$1,580	
wool	43	bales	@	\$15.00	/bale	\$645	
Stock selling charges							
commission/insurance			@		gross	\$1,856	
yard fees		head	@	\$0.85		\$155	
transaction levy	182	head	@	\$0.20	/head	\$36	
SA sheep industry levy	182	head	@	\$0.67	/head	\$122	
Wool selling charges							
brokerage/testing/insurance			@	\$0.27	/kg	\$1,964	
Industry levy			@	1.5%	gross	\$801	
Other Expenses							
Hand Feeding						\$2,400	
Insurance	165000	value	@	\$2.00	/\$'000	\$330	
Water		DSE's	@	\$2.50		\$3,000	
Veh Fuel, R&M		DSE's	@	\$1.00		\$1,200	
Other Expenses		DSE's	@	\$0.50		\$600	
TOTAL VARIABLE COSTS	1200	DOL 3	*	Ψ0.50	,500	\$56.749	
GROSS MARGIN						\$30,417	
GROSS MARGIN GROSS MARGIN/hectare							
						\$152 \$05	
GROSS MARGIN/DSE						\$25	

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

⁽¹⁾ 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.

⁽²⁾ The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings, locks etc.

⁽³⁾ Many contractors pay above award rates.

⁽⁴⁾ Super/workcover expenses relate only to shearing.

GROSS MARGIN	/DCE	Average Greasy Wool Price (c/Kg)					
GROSS MARGIN/DSE		550	600	734	700	750	800
	\$160	\$11	\$14	\$22	\$20	\$23	\$26
	\$165	\$11	\$14	\$22	\$20	\$23	\$26
	\$170	\$12	\$15	\$23	\$21	\$24	\$27
	\$175	\$13	\$16	\$24	\$22	\$25	\$28
Average	\$180	\$14	\$17	\$25	\$23	\$26	\$29
Sale Price	\$185	\$14	\$17	\$25	\$23	\$26	\$29
of wethers	\$190	\$15	\$18	\$26	\$24	\$27	\$30
(\$/hd)	\$195	\$16	\$19	\$27	\$25	\$28	\$31
	\$200	\$16	\$19	\$28	\$25	\$28	\$31
	\$205	\$17	\$20	\$28	\$26	\$29	\$32
	\$210	\$18	\$21	\$29	\$27	\$30	\$33

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 I	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%	

Sales

SALES	Number	Price/hd	Age	Total
c.f.a wethers	182	\$185.00	5.5	\$33,670
TOTAL	182			\$33,670
PURCHASES	Number	Price/hd	Age yrs	Total
wethers	212	\$145	0.5	\$30,793

Stock Value and DSE Requirement

		Value	Ave Live	DSE
	Number	\$/head	Wt (Kgs)	Rating
wethers	1000	\$165	55	1.2
TOTAL	1000			

Stock Health Requirements

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

Hand Feeding

	kg fed	/Animal	\$/tonne	Total
Oats/barley	0	kg/wether	300	\$0
Hay	15	kg/wether	160	\$2,400
Lupins		kg/wether	410	\$0
TOTAL				\$2,400

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

Cleanskin Sheep - Cereal Zone

Gross Margin

Assumptions	Total DSE's (1)	2950	
Number of breeding ewes	1000	Stocking rate (DSE/Ha)	6.0

INCOME						\$	2022 YOUR ESTIMATE
						Ψ	LOTIMATE
Sales	1453	animals	[ave price	\$214.36	per hd]	\$311,520	
GROSS INCOME						\$311,520	
VARIABLE COSTS							
Marking						\$0	
Lamb marking	1500	lambs	@	\$1.25	/head	\$1,875	
Ear tags	1500	lambs	@	\$0.30	/head	\$450	
Animal Health							
drench	3300	sheep	@	\$0.55	/head	\$1,822	
vaccinate	4775	sheep	@	\$0.28	/head	\$1,337	
blowfly control	0	sheep	@	\$1.43	/head	\$0	
Lice control	0	sheep	@	\$1.70	/head	\$0	
Sale and Purchase Costs							
Purchases	7	rams	@	\$1,850.00	/head	\$12,950	
Freight	204	ewes	@	\$4.00	/head	\$816	
	6	rams	@	\$4.00	/head	\$24	
	494	hoggets	@	\$4.00	/head	\$1,976	
	750	lambs	@	\$4.00	/head	\$3,000	
Stock selling charges						-	
commission/insurance			@	5.5%	gross	\$17,134	
yard fees	1453	head	@	\$0.85	/head	\$1,235	
sheep tran levy	703	head	@	\$0.20	/head	\$141	
lamb trans levy	750	head	@	\$1.50	/head	\$1,125	
SA Sheep industry levy	1453	head	@	\$0.67	/head	\$974	
						\$0	
						\$0	
Feed and other Costs							
Hand Feeding						\$13,475	
Insurance	\$702,013		@		/\$'000	\$1,404	
Water		DSE's	@	\$2.50		\$7,375	
Veh Fuel, R&M		DSE's	@	\$0.80		\$2,360	
Other	2950	DSE's	@	\$0.50	/DSE	\$1,475	
TOTAL VARIABLE COSTS						\$70,947	
GROSS MARGIN TOTAL						\$240,573	
GROSS MARGIN/hectare						\$489	
GROSS MARGIN /DSE						\$82	

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.

GROSS MARG	IN/DCE		Average We	eaning Percentage	•		
GNU33 IVIANG	IIIVDSE	120	135	150	165	180	195
	\$194	\$54	\$63	\$73	\$83	\$92	\$102
	\$199	\$55	\$65	\$74	\$84	\$94	\$104
	\$204	\$56	\$66	\$76	\$85	\$95	\$105
	\$209	\$57	\$67	\$77	\$87	\$97	\$107
Average	\$214	\$58	\$68	\$78	\$88	\$98	\$108
Sale Price	\$219	\$59	\$69	\$79	\$89	\$100	\$110
(\$/hd)	\$224	\$60	\$70	\$80	\$91	\$101	\$112
	\$229	\$61	\$71	\$82	\$92	\$103	\$113
	\$234	\$61	\$72	\$83	\$93	\$104	\$115
	\$239	\$62	\$73	\$84	\$95	\$105	\$116
	\$244	\$63	\$74	\$85	\$96	\$107	\$118

Flock Structure

This table shows the number of 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	750	234	216	199	183	169	0
Wethers	0	0	0	0	0	0	0
Rams		7	6	6	6	0	0

Production Data

Stocking rate (DSE/Ha)	6.0
Total DSE's	2950
SHEEP GRAZING AREA	492
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	150%

Culling Rate (% per each group)							
Age group	Ewes Wethers						
0.5	0%	100%					
1.5	68%	0%					
2.5	5%	0%					
3.5	5%	0%					
4.5	5%	0%					
5.5	5%	0%					
6.5	100%	0%					

Sales

SALES			Number	Price/hd	Total
c.f.a ewes			204	\$170.00	\$34,680
c.f.a rams			6	\$130.00	\$780
ewe hoggets			494	\$240.00	\$118,560
wether lambs	55kg finished		750	\$210.00	\$157,500
TOTAL		Ī	1453	\$214.36	\$311,520

Stock Health Requirements

		Number of times						
	Number	DSE	Drench	Vacc.	Blowfly	Lice		
ewes	1000	2.0	1	1	0	0		
ewe hoggets	750	1.2	1	1	0	0		
wether weaners	0	1.0	1	1	0	0		
lambs	1500	0.0	1	2	0	0		
rams	25	2.0	2	1	0	0		
TOTAL	3275	2950	3300	4775	0	0		
Total Value	\$702,013							

Feeding

	Number of	Fodder			Total
Feed	Animals	Cost (\$/T)	kg/	Animal	Cost (\$)
Oats/barley	1000	\$300	24	/ewe	\$7,200
Hay	1000	\$160	20	/ewe	\$3,200
Lupins	750	\$410	10	/weaner	\$3,075
TOTAL					\$13,475

Prime Lamb - Pastoral Zone

Gross Margin

Assumptions (Lambs sold to specialis	st finisher)		
Ave Breeding Ewe Fibre Diameter	22	Total DSE's (1)	1858
Number of breeding ewes	1000	Stocking rate (DSE/Ha)	0.14
Merino ewes - Terminal meat sire			

							2022
INCOME							YOUR
					7 3 (2)	\$	ESTIMATE
Wool (kg greasy)	6378	Kg	[ave price		c/kg] (2)	\$45,778	
Sales	1332	animals	[ave price	\$162.39	per hd]	\$216,300	
GROSS INCOME						\$262,078	
VARIABLE COSTS							
Shearing							
Shearing (3)	970	sheep	@	\$331.98	/100	\$3,220	
(Federal awards)	24	rams	@	\$663.96	/100	\$159	
Shed labour	5	days	@	\$250.95	/day	\$1,255	
Woolclasser	2.50	days	@	\$319.91	/day	\$800	
Superannuation (on ordinar	y wages only) (4)		@	10.0%	wages	\$543	
Work Cover (on wages+sup	er+o'time etc)		@	4.0%	total	\$239	
Wool packs	38	packs	@	\$16.00	/pack	\$608	
Shed sundries	994	sheep	@	\$0.20	/head	\$199	
Lice control	994	sheep	@	\$1.45	/head	\$1,446	
Crutch & Wig	1100	lambs	@	\$96.27	/100	\$1,059	
- -	1019	adults	@	\$96.27		\$981	
Marking							
Lamb marking	1100	lambs	@	\$1.25	/head	\$1,375	
Pain relief	2125	lambs	@	\$1.39	/head	\$2,958	
Ear tags	1100	lambs	@	\$0.30	/head	\$330	
Animal Health							
drench	0	sheep	@	\$0.55	/head	\$0	
vaccinate	2125	sheep	@	\$0.28	/head	\$595	
blowfly control	1000	sheep	@	\$1.43	/head	\$1,434	
Stock purchases							
Purchases	(refer opposite p	age)				\$62,769	
Sale Costs							
Freight							
livestock	232	culls	@	\$7.00	/head	\$1,624	
	262	ewes	@	\$7.00	/head	\$1,831	
	1100	prime lambs	@	\$7.00	/head	\$7,700	
wool	38	bales	@	\$17.00	/bale	\$646	
Stock selling charges							
commission/insurance			@	5.5%	gross	\$11,897	
yard fees	1332	head	@	\$0.85	/head	\$1,132	
levy-sheep	232	head	@	\$0.20	/head	\$46	
levy-lambs	1100	head	@	\$1.50	/head	\$1,650	
SA sheep industry levy	1332	head	@	\$0.67	/head	\$892	
wool selling charges							
Industry levy			@	1.5%	gross	\$687	
brokerage/testing/insurance			@	\$0.27		\$1,722	
Feed and Other Costs							
Water	1858	DSE's	@	\$1.50	/DSE	\$2,786	
Veh Fuel, R&M	1858	DSE's	@	\$1.70	/DSE	\$3,158	
Other	1858	DSE's	@	\$0.50	/DSE	\$929	
hay	0.0	tonne	@	\$160.00	/tonne	\$0	
grain	1.0	tonnes	@	\$400.00	/tonne	\$400	
Insurance	\$241,875	value	@	\$2.00	/\$'000	\$484	
TOTAL VARIABLE COSTS						\$117,553	
GROSS MARGIN TOTAL						\$144,525	
GROSS MARGIN/hectare						\$10.89	
GROSS MARGIN/DSE						\$78	

- (1) 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. (2) The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings,locks etc. (3) Many contractors pay above award rates. (4) Super/workcover expenses relate only to shearing.

GROSS MARGIN/DSE		Average Weaning Rate (%)					
GROSS MARGIN/I	JSE	80%	90%	100%	110%	120%	130%
	\$90	\$26	\$30	\$33	\$37	\$41	\$45
	\$95	\$28	\$32	\$36	\$40	\$44	\$49
	\$100	\$30	\$34	\$39	\$43	\$47	\$52
	\$105	\$32	\$36	\$41	\$46	\$51	\$55
Average	\$110	\$34	\$39	\$44	\$49	\$54	\$59
Lamb Sale	\$115	\$36	\$41	\$46	\$51	\$57	\$62
Price (\$/hd)	\$165	\$56	\$64	\$72	\$79	\$87	\$95
·	\$125	\$40	\$46	\$51	\$57	\$63	\$68
	\$130	\$42	\$48	\$54	\$60	\$66	\$72
	\$135	\$44	\$50	\$56	\$63	\$69	\$75
	\$140	\$46	\$52	\$59	\$65	\$72	\$78

Production Data

Stocking rate (DSE/Ha)	0.14
Total DSE's	1858
SHEEP GRAZING AREA	13268
Number of ewes mated	1000
Ram percentage	2.5%
Age ewes bought (yrs)	1.5
Age ewes culled	5.5
Years rams kept	4
Flock death rate	3%
Average weaning rate	110%
% 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	100%						
5.5	0%						
6.5	0%						

Sales

SALES	Number	Price/hd	Age	Total
c.f.a ewes	232	\$150.00	5.5	\$34,800
c.f.a rams	0	\$120.00	5.5	\$0
lambs	1100	\$165.00	20 weeks	\$181,500
TOTAL	1332	\$162.39		\$216,300
PURCHASES	Number	Price/hd	Age yrs	Total
ewes	262	\$210	1.5	\$54,922
rams	7	\$1,200	1.5	\$7,846

Stock Health Requirements

	Number of times				
	Number	Drench	Vacc.	Blowfly	DSE
ewes	1000	0	1	1	1.8
rams	25	0	1	0	2
lambs	1100	0	1	0	
TOTAL	2125	0	2125	1000	1850

Feeding

		Hay	Kgs Fed	No Weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	Cost (\$)
ewes	1000	\$260	3.0	0	\$0
rams	24	\$260	3.0	0	\$0
		Grain	Kgs Fed	No Weeks	Total
	Number	Cost (\$/T)	per week	of Feeding	Cost (\$)
ewes	1000		0.0	0	\$0
rams	24		3.0	0	\$0

	Number	Wool cut kg/hd	Price	Total
ewes crossbred rams	970 24	6.50 3.00	\$7.25 \$1.34	
TOTAL	994	6378		45778

SR Merino - Pastoral Zone

Gross Margin

Assumptions			
Ave Breeding Ewe Fibre Diameter	22	Total DSE's (1)	2660
Number of breeding ewes	1000	Stocking rate (DSE/Ha)	0.14

						2022
INCOME						YOUR
					\$	ESTIMATE
, , ,	3 Kg	[ave price		c/kg] (2)	\$68,419	
Sales 75	3 animals	[ave price	\$165.62	per hd]	\$124,700	
GROSS INCOME					\$193,119	
VARIABLE COSTS						
Shearing						
Shearing (3) 217	6 sheep	@	\$331.98	/100	\$7,224	
	0 rams	@	\$663.96		\$199	
,	0 days	@	\$250.95		\$2,510	
Woolclasser	5 days	@	\$319.91	•	\$1,600	
Superannuation (on ordinary wages only) (4)	,-	@		wages	\$1,153	
Work Cover (includes super + o'time etc)		@		total	\$507	
	2 packs	@	\$16.00		\$992	
•	5 sheep	@	\$0.20	•	\$441	
	5 sheep	@	\$1.45		\$3,207	
	6 sheep	@	\$96.27		\$3,207 \$1,325	
Crutch & wig	o sileep	•	φ90.27	7100	\$1,323	
Marking						
Lamb marking 80	0 lambs	@	\$1.50	/head	\$1,200	
Pain relief 90	0 lambs	@	\$1.62	/head	\$1,462	
Ear tags 80	0 lambs	@	\$0.30	/head	\$240	
Animal Health						
drench	0 sheep	@	\$0.55	/head	\$0	
vaccinate 303	0 sheep	@	\$0.28	/head	\$848	
	0 sheep	@	\$1.43	/head	\$1,434	
other	0 sheep	@	\$0.00	/head	\$0	
Sale and Purchase Costs					• •	
Purchases	8 Merino rams	@	\$1.500.00	/head	\$12.000	
Freight 75		@	\$7.00		\$5,271	
9	2 bales	@	\$17.00		\$1,054	
Stock selling charges		G	Ψσ	, 20.0	4 1,001	
commission/insurance		@	5.5%	gross	\$6,859	
	3 head	@	\$0.85	•	\$640	
•	3 head	@	\$0.20		\$151	
•	3 head	@	\$0.67		\$504	
Wool selling charges	o ricad	•	Ψ0.07	///caa	ΨΟΟΨ	
brokerage/testing/insurance		@	\$0.27	/ka	\$2,833	
Industry levy		@		gross	\$1,026	
Feed and other Costs		•	1.570	9.000	Ψ1,020	
Hand Feeding - rams					\$467	
•	0 value	@	42 00	/\$'000	\$407 \$871	
	0 DSE's	@	\$1.50		\$3,990	
	0 DSE's	@	\$1.70		\$4,522	
•	0 DSE's	@	\$1.70 \$0.50		\$4,522 \$1,330	
TOTAL VARIABLE COSTS	U DOL S	w	φυ.30	/ DOL	\$65,860	
GROSS MARGIN TOTAL					\$127,259	
GROSS MARGIN/hectare						
					\$6.70	
GROSS MARGIN /DSE					\$48	

- (1) 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. (2) The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings, locks etc. (3) Many contractors pay above award rates. (4) Super/workcover expenses relate only to shearing.

GROSS MARGIN	1/114		Average Greasy Wool Price (c/Kg)				
GROSS WARGIN	/na	500	550	600	652	700	750
	\$141	\$35	\$37	\$39	\$41	\$43	\$45
	\$146	\$37	\$39	\$40	\$42	\$44	\$46
	\$151	\$38	\$40	\$42	\$44	\$46	\$48
	\$156	\$39	\$41	\$43	\$45	\$47	\$49
Average	\$161	\$41	\$43	\$44	\$47	\$48	\$50
Sale	\$166	\$42	\$44	\$46	\$48	\$50	\$52
Price (\$/hd)	\$171	\$43	\$45	\$47	\$49	\$51	\$53
	\$176	\$45	\$47	\$48	\$51	\$52	\$54
	\$181	\$46	\$48	\$50	\$52	\$54	\$56
	\$186	\$47	\$49	\$51	\$53	\$55	\$57
	\$191	\$49	\$51	\$53	\$55	\$56	\$58

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	212	206	200	194	188	0
Wethers	400	0	0	0	0	0	0
Rams		8	8	7	7	0	0

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	3%
Average weaning rate	80%
Prime lamb weaning %	0%
% mated for prime lms	0%

Culling Rate (% per each group)					
Age group	Ewes	Wethers			
0.5	0%	0%			
1.5	45%	100%			
2.5	0%	0%			
3.5	0%	0%			
4.5	0%	0%			
5.5	0%	0%			
6.5	100%	0%			

Sales

SALES	Number	Price/hd	Total
c.f.a ewes	182	\$150.00	\$27,300
c.f.a merino rams	7	\$120.00	\$840
ewe hoggets	176	\$240.00	\$42,240
wether lambs 35kg store	388	\$140.00	\$54,320
TOTAL	753	\$165.62	\$124,700

Stock Health Requirements

		Number of times			
	Number	DSE	Drench	Vacc.	Jet
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	\$435.570				

Feeding

	Number of	Hay	kg/		Total
Feed	Animals	Cost (\$/T)	Fed	Animal	Cost (\$)
Oats/barley	1000		0.0	/ewe	\$0
Hay	1000	\$260	0.0	/ewe	\$0
Lupins	800	\$410	0.0	/weaner	\$0
Lupins	30	\$410	38.0	/ram	\$467
TOTAL	·				\$467

		Wool Cut	Total	Yield	Total
	Number	kg/hd	Greasy kg	(%)	Clean kg
ewes	982	6.70	6578	63%	4144
ewe hoggets	394	5.20	2049	63%	1291
wether weaners			0	63%	0
lambs	800	2.00	1600	63%	1008
merino rams	30	9.00	266	63%	168
Adults	1405		8893		
TOTAL	2205		10493		6611

Merino Wethers - Pastoral Zone

Gross Margin

Assumptions:			
Average Wether Fibre Diameter	22	Total DSE's (1)	1200
Number of adult wethers	1000	Stocking rate (DSE/Ha)	0.14

							2022
INCOME						\$	YOUR ESTIMATE
Wool (kg greasy)	6096	Ka	[ave price	652	c/kg] (2)	\$39,749	
Sales		animals	[ave price	\$165.00	,	\$29,148	
GROSS INCOME						\$68,897	
EXPENSES							
Shearing							
Shearing (3)	960	sheep	@	\$331.98	/100	\$3,187	
Shed labour	4	days	@	\$250.95	/day	\$1,004	
Woolclasser	2	days	@	\$319.91	/day	\$640	
Superannuation (on ordinary v	vages only) (4)		@	10.0%	wages	\$483	
Work Cover (on wages+super-	+o'time etc)		@	4.0%	total	\$213	
Wool packs	36	packs	@	\$16.00	/pack	\$576	
Shed sundries	960	sheep	@	\$0.20	/head	\$192	
Lice control	960	sheep	@	\$1.45	/head	\$1,396	
Crutching	1000	sheep	@	\$96.27	/100	\$963	
Animal Health							
drench	0	sheep	@	\$0.55	/head	\$0	
vaccinate	1000	sheep	@	\$0.28	/head	\$280	
blowfly control	1000	sheep	@	\$1.43	/head	\$1,434	
Other Expenses		sheep	@	\$0.00	/head	\$0	
Stock Purchases							
Purchases	217	wethers	@	\$140.00	/head	\$30,380	
Sale costs and other				*		***,***	
Freight						-	
livestock	393		@	\$7.00	/head	\$2.751	
wool		bales	@	\$17.00		\$612	
Stock selling charges	00	Daico	•	ψ17.00	, baic	Ψ012	
commission/insurance			@	5.5%	gross	\$1,603	
yard fees	177	head	@	\$0.85	•	\$150	
transaction levy	177	head	@	\$0.20		\$35	
SA sheep industry levy		head	@	\$0.20		\$118	
Wool selling charges	177	iidau	₩	Ψ0.07	/ I Cau	Ψ110	
brokerage/testing/insurance			@	\$0.27	/ka	\$1,646	
Industry levy			@		gross	\$596	
Other Expenses			₩	1.570	91033	Ψ390	
Hand Feeding						\$0	
nand reeding Insurance	152500	value	@	\$2.00	/\$'000	\$305	
Water		DSE's	@	\$1.50		\$1,800	
vvaler Veh Fuel, R&M		DSE's	@	\$1.50 \$1.50		\$1,800	
,							
Other Expenses	1200	DSE's	@	\$0.50	/USE	\$600	
TOTAL VARIABLE COSTS GROSS MARGIN						\$52,765 \$16,120	
						\$16,132	
GROSS MARGIN/hectare						\$1.88	
GROSS MARGIN/DSE						\$13	

⁽¹⁾ 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. (2) The wool price is 90% the price for that micron. This takes into account the lower value of bellies, skirtings,locks etc. (3) Many contractors pay above award rates. (4) Super/workcover expenses relate only to shearing.

GROSS MARGIN	/DCF	Average Greasy Wool Price (c/Kg)					
GRUSS WARGIN	/D9E	850	950	\$652	1050	1100	1150
	\$140	\$20	\$25	\$10	\$30	\$32	\$35
	\$145	\$21	\$26	\$11	\$31	\$33	\$36
	\$150	\$21	\$26	\$11	\$31	\$34	\$36
	\$155	\$22	\$27	\$12	\$32	\$34	\$37
Average	\$160	\$23	\$28	\$13	\$33	\$35	\$38
Sale	\$165	\$23	\$28	\$13	\$33	\$36	\$38
Price (\$/hd)	\$170	\$24	\$29	\$14	\$34	\$37	\$39
	\$175	\$25	\$30	\$15	\$35	\$37	\$40
	\$180	\$25	\$30	\$16	\$35	\$38	\$40
	\$185	\$26	\$31	\$16	\$36	\$39	\$41
	\$190	\$27	\$32	\$17	\$37	\$39	\$42

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)	0.5
Age wethers culled	5.5

Culling I	Stock		
Age group	Ewes	Wethers	No's
0.5		0%	217
1.5		0%	208
2.5		0%	200
3.5		0%	192
4.5		0%	184
5.5		100%	

Sales

SALES	Number	Price/hd	Age	Total
c.f.a wethers	177	\$165.00	5.5	\$29,205
TOTAL	177			\$29,205
PURCHASES	Number	Price/hd	Age yrs	Total
wethers	217	\$140	0.5	\$30,331

Stock Value and DSE Requirement

		Value	Ave Live	DSE
	Number	\$/head	Wt (Kgs)	Rating
wethers	1000	\$153	55	1.20
TOTAL	1000			

Stock Health Requirements

	Number of times				DSE
	Number	Drench	Vacc.	Blowfly	Rating
wethers	1000	0	1	1	1.2
TOTAL	1000	0	1000	1000	1200

Hand Feeding

	kg Fed	/Animal	\$/tonne	Total
Oats/barley	0	kg/wether		\$0
Hay	0	kg/wether	260	\$0
Lupins	0	kg/wether	410	\$0
TOTAL	•	•	•	\$0

		Wool cut	Total	Yield	Total
	Number	kg/hd	Greasy kg	(%)	Clean kg
wether hoggets	208	4.00	832	63%	524
wethers	752	7.00	5264	63%	3316
TOTAL	960		6096		3841

Cleanskin Sheep - Pastoral Zone

Gross Margin

Assumptions						
		Total DSE's (1)	2830			
Number of breeding ewes	1000	Stocking rate (DSE/Ha)	0.14			

INCOME						\$	2022 YOUR ESTIMATE
						Ψ	LOTIMATE
Sales	1256	animals	[ave price	\$189.21	per hd]	\$237,700	
GROSS INCOME						\$237,700	
VARIABLE COSTS						-	
Marking						\$0	
Lamb marking	1300	lambs	@	\$1.25	/head	\$1,625	
Ear tags	1300	lambs	@	\$0.30	/head	\$390	
Animal Health							
drench	0	sheep	@	\$0.55	/head	\$0	
vaccinate	4275	sheep	@	\$0.28	/head	\$1,197	
blowfly control	0	sheep	@	\$1.43	/head	\$0	
Lice control	0	sheep	@	\$1.45	/head	\$0	
Sale and Purchase Costs							
Purchases	7	rams	@	\$1,850.00	/head	\$12,950	
Freight	204	ewes	@	\$7.00	/head	\$1,428	
	6	rams	@	\$7.00	/head	\$42	
	397	hoggets	@	\$7.00	/head	\$2,779	
	650	lambs	@	\$10.00	/head	\$6,500	
Stock selling charges							
commission/insurance			@		gross	\$13,074	
yard fees	1256	head	@	\$0.85		\$1,068	
sheep tran levy	606	head	@	\$0.20		\$121	
amb trans levy	650	head	@	\$1.50	/head	\$975	
SA Sheep industry levy	1256	head	@	\$0.67	/head	\$842	
						\$0	
						\$0	
Feed and other Costs							
Hand Feeding - rams						\$390	
Insurance	\$562,894		@		/\$'000	\$1,126	
Water		DSE's	@	\$2.50		\$7,075	
Veh Fuel, R&M		DSE's	@	\$0.80		\$2,264	
Other	2830	DSE's	@	\$0.50	/DSE	\$1,415	
TOTAL VARIABLE COSTS						\$55,259	
GROSS MARGIN TOTAL						\$182,441	
GROSS MARGIN/hectare						\$9	
GROSS MARGIN /DSE						\$64	

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.

GROSS MARGIN/DSE		Average Weaning Percentage					
GNU33 WANG	III/D3E	110	120	130	140	150	160
	\$169	\$47	\$52	\$58	\$64	\$70	\$76
	\$174	\$48	\$53	\$59	\$65	\$71	\$77
	\$179	\$48	\$54	\$60	\$66	\$72	\$78
	\$184	\$49	\$55	\$62	\$68	\$74	\$80
Average	\$189	\$50	\$56	\$63	\$69	\$75	\$81
Sale Price	\$194	\$51	\$57	\$64	\$70	\$76	\$82
(\$/hd)	\$199	\$52	\$58	\$65	\$71	\$77	\$84
	\$204	\$53	\$59	\$66	\$72	\$79	\$85
	\$209	\$54	\$60	\$67	\$73	\$80	\$86
	\$214	\$55	\$61	\$68	\$75	\$81	\$88
	\$219	\$56	\$62	\$69	\$76	\$82	\$89

Flock Structure

This table shows the number of 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	650	234	216	199	183	169	0	
Wethers	0	0	0	0	0	0	0	
Rams		7	6	6	6	0	0	

Production Data

Stocking rate (DSE/Ha)	0.14
Total DSE's	2830
SHEEP GRAZING AREA	20214
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	130%

Culling Rate (% per each group)						
Age group	Ewes	Wethers				
0.5	0%	100%				
1.5	63%	0%				
2.5	5%	0%				
3.5	5%	0%				
4.5	5%	0%				
5.5	5%	0%				
6.5	100%	0%				

Sales

SALES	Number	Price/hd	Total
c.f.a ewes	204	\$160.00	\$32,640
c.f.a rams	6	\$120.00	\$720
ewe hoggets	397	\$220.00	\$87,340
wether lambs 50kg	650	\$180.00	\$117,000
TOTAL	1256	\$189.21	\$237,700

Stock Health Requirements

			Numb	er of Times		
	Number	DSE	Drench	Vacc.	Blowfly	Lice
ewes	1000	2.0	0	1	0	0
ewe hoggets	650	1.2	0	1	0	0
wether weaners	0	1.0	0	1	0	0
lambs	1300	0.0	0	2	0	0
rams	25	2.0	0	1	0	0
TOTAL	2975	2830	0	4275	0	0
TOTAL VALUE	\$562,894					

Feeding

	Number of	Fodder			Total
Feed	Animals	Cost (\$/T)	kg/	Animal	Cost (\$)
Oats/barley	1000	\$300	0	/ewe	\$0
Hay	1000	\$160	0	/ewe	\$0
Lupins	650	\$410	0	/weaner	\$0
Lupins	25	\$410	38	/ram	\$390
TOTAL					\$390

Beef Cattle - High Rainfall

Gross Margin

Assumptions:		(Breeding young cattle for local trade, grass fattened)				
Breeding Cow	14.5	DSE	100	Cow breeding herd		
Calf Weaning	90%		13	cows replaced per year		
Herd Deaths	3%		3%	Bulls bought for		\$12,000
Cows c.f.a	10	years old		sold for		\$2,500
Uses	13	heifers as replacements		after	3	<i>year</i> s
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		Drench cows	2	X
Area required	189	hectares		Drench calves	1	X
Feeds	35	kg/DSE hay equivalent supplement				

								2022
INCOME							¢	YOUR ESTIMATE
Stock sales	E 1	vealers @	200) kg liveweight @	¢e 05	/kg L/W	\$ \$91,476	ESTIMATE
Slock Sales		yearlings @		kg liveweight @		/kg L/W /kg L/W	\$46,200	
Culls		Cows @	550			/kg L/W	\$15,818	
Cuiis	10	bull @	550	kg liveweight @	\$3.00	/kg L/vv		
GROSS INCOME	<u> </u>	bull @					\$2,500	
GRUSS INCOME							\$155,994	
VARIABLE COSTS								
Bull Purchases								
No. of bulls				1	\$12,000	total	\$12,000	
Veterinary & Medicines								
Drench - cows 2x calves	1x		290	@	\$6.25	/head	\$1,813	
Ear Tags NLIS			90	@	\$4.75	/tag	\$428	
Lice Treatments			100	@	\$6.25	/dose	\$625	
Vaccine (5 in 1)			180	@	\$0.80	/dose	\$145	
Supplementary Feed								
Hay		66	tonne	@	\$160.00	/tonne	\$10,560	
Grain		0.00	t/head	@	\$300.00	/tonne	\$0	
Blocks/ Mineral Mix			100	@	\$5.50	/head	\$550	
Sale costs and other								
Insurance			\$119,000	@	\$2.00	/\$1000	\$238	
Water		1888	dse's	@	\$1.50		\$2,832	
Veh Fuel, R&M		1888	dse's	@	\$1.20		\$2,266	
Other		1888	dse's	@	\$0.50		\$944	
Transport:	Lvstk	87	head	@	\$30.00	/head	\$2,598	
Commission				@	5.5%		\$8,580	
Levies				@	\$5.00	/head	\$433	
TOTAL VARIABLE COST	S						\$44,010	
GROSS MARGIN TOTAL	-			•			\$111,984	
GROSS MARGIN PER C	ow						\$1,120	
GROSS MARGIN/DSE							\$59.31	
GROSS MARGIN/hectar	re						\$593.12	

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.

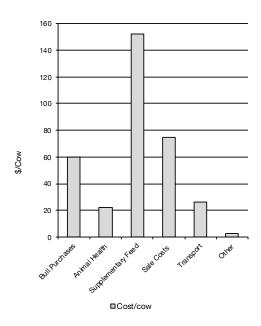
PER COW

	\$/k	g Liveweig	ht(vealers	and yearlin	gs)	
		\$3.75	\$3.95	\$4.15	\$4.35	\$4.55
	60%	\$279	\$307	\$336	\$364	\$393
	65%	\$342	\$374	\$405	\$437	\$469
	70%	\$405	\$440	\$475	\$510	\$546
	75%	\$468	\$506	\$545	\$584	\$622
Weaning	80%	\$531	\$573	\$615	\$657	\$699
%	85%	\$594	\$639	\$684	\$730	\$775
	90%	\$657	\$705	\$754	\$803	\$851
·	95%	\$720	\$772	\$824	\$876	\$928
	100%	\$783	\$838	\$893	\$949	\$1,004

PER DSE

	\$/k	g Liveweig	ht(vealers	and yearlin	gs)	
		\$3.75	\$3.95	\$4.15	\$4.35	\$4.55
	60%	\$15	\$16	\$18	\$19	\$21
	65%	\$18	\$20	\$21	\$23	\$25
	70%	\$21	\$23	\$25	\$27	\$29
	75%	\$25	\$27	\$29	\$31	\$33
Weaning	80%	\$28	\$30	\$33	\$35	\$37
%	85%	\$31	\$34	\$36	\$39	\$41
	90%	\$35	\$37	\$40	\$43	\$45
	95%	\$38	\$41	\$44	\$46	\$49
	100%	\$41	\$44	\$47	\$50	\$53

Variable Costs



Beef Cattle - Cereal Zone

Gross Margin

Assumptions:		(Breeding young cattle for local trade, grass fattened)					_
Breeding Cow	14.5	DSE	100	Cow breeding herd			
Calf Weaning	90%		13	cows replaced per year			
Herd Deaths	3%		3%	Bulls bought for		\$12,00	0
Cows c.f.a	10	years old		sold for		\$2,50	0
Uses	13	heifers as replacements		after	3	<i>year</i> s	
Carry over calf	8	DSE	50%	carryover to heavier weights	;		
Weaned @	8	months	6	months extra carry over			
Heifers mated @	15	months	1960	Herd DSE			
Stocking rate	5.00	DSE/ha		Drench cows	2	X	
Area required	392	hectares		Drench calves	1	X	
Feeds	35	kg/DSE hay equivalent supplement					

INCOME									2022 YOUR
								\$	ESTIMATE
Stock sales	45	vealers @		280	kg liveweight @	\$6.05	/kg L/W	\$76,230	
	31	yearlings		400	kg liveweight @	\$5.00	/kg L/W	\$62,000	
Culls	10	Cows @		550	kg liveweight @	\$3.00	/kg L/W	\$15,818	
	1	bull@						\$2,500	
GROSS INCOME								\$156,548	
VARIABLE COSTS									
Bull Purchases									
No. of bulls				1	@	\$12,000	total	\$12,000	
Veterinary & Medicines									
Drench - cows 2x calves 1x				290	@	\$6.25	/head	\$1,813	
Ear Tags				90	@	\$4.75	/tag	\$428	
Lice Treatments				100	@	\$6.25	/dose	\$625	
Vaccine (5 in 1)				180	@	\$0.80	/dose	\$145	
Supplementary Feed									
Hay		68	tonne		@	\$160.00	/tonne	\$10,880	
Grain		0.00	t/head		@	\$300.00	/tonne	\$0	
Blocks/ Mineral Mix				100	@	\$5.50	/head	\$550	
Sale costs and other									
Insurance			\$1	19,000	@	\$2.00	/\$1000	\$238	
Water		1960	dse's		@	\$2.50		\$4,900	
Veh Fuel, R&M		1960	dse's		@	\$1.20		\$2,352	
Other		1960	dse's		@	\$0.50		\$980	
Transport: L	vstk	87	head		@	\$30.00	/head	\$2,598	
Commission					@	5.5%		\$8,610	
Levies					@	\$5.00	/head	\$433	
TOTAL VARIABLE COSTS								\$46,550	
GROSS MARGIN TOTAL								\$109,997	
GROSS MARGIN PER COW								\$1,100	
GROSS MARGIN/DSE								\$56.12	
GROSS MARGIN/hectare								\$280.60	

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

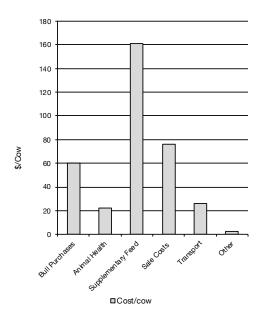
PER COW

				1 111 0011		
	;	\$/kg Livewe	eight(veale	r/yearlings)		
		\$3.70	\$3.90	\$4.10	\$4.30	\$4.50
	60%	\$265	\$295	\$324	\$354	\$384
	65%	\$328	\$361	\$394	\$427	\$460
	70%	\$391	\$427	\$464	\$500	\$537
	75%	\$454	\$494	\$534	\$573	\$613
Weaning	80%	\$517	\$560	\$603	\$646	\$690
%	85%	\$580	\$626	\$673	\$720	\$766
	90%	\$643	\$693	\$743	\$793	\$843
	95%	\$706	\$759	\$812	\$866	\$919
	100%	\$768	\$825	\$882	\$939	\$996

Ρ	ER	DSI
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	,	kg Livewe	eight(veale	r/yearlings)		
		\$3.70	\$3.90	\$4.10	\$4.30	\$4.50
	60%	\$14	\$15	\$17	\$18	\$20
	65%	\$17	\$18	\$20	\$22	\$23
	70%	\$20	\$22	\$24	\$26	\$27
	75%	\$23	\$25	\$27	\$29	\$31
Weaning	80%	\$26	\$29	\$31	\$33	\$35
%	85%	\$30	\$32	\$34	\$37	\$39
	90%	\$33	\$35	\$38	\$40	\$43
	95%	\$36	\$39	\$41	\$44	\$47
	100%	\$39	\$42	\$45	\$48	\$51

Variable Costs



Beef Cattle - Pastoral Zone

Gross Margin

Assumptions:		(Breeding young cattle for store trade)					
Breeding Cow	14.5	DSE	100	Cow breeding herd			
Calf Weaning	80%		13	cows replaced per year			
Herd Deaths	3%		3%	Bulls bought for			\$8,000
Cows c.f.a	10	years old		sold for			\$2,000
Uses	13	heifers as replacements		after	3	years	
Carry over calf	8	DSE	100%	carryover to heavier weights			
Weaned @	8	months	6	months extra carry over			
Heifers mated @	20	months	1997	Herd DSE			
Stocking rate	0.14	DSE/ha		Drench cows	0	X	
Area required	14263	hectares		Drench calves	0	Χ	
Feeds	20	kg/DSE hay equivalent supplement					

								2022
NCOME							\$	YOUR ESTIMATI
Stock sales	40	young	280	kg liveweight @	\$5.70	/kg	\$63,840	
	27	bullocks	500	kg liveweight @	\$4.00	/kg	\$54,000	
Culls	10	Cows @	550	kg lwt @	\$2.75	/kg	\$15,125	
	1	bull@					\$2,000	
GROSS INCOME							\$134,965	
ARIABLE COSTS								
Bull Depreciation								
Bull purchase				1 @	\$8,000	total	\$8,000	
Veterinary & Medicines								
Drench			0	@	\$6.25	/head	\$0	
Ear Tags			80	@	\$4.75	/tag	\$380	
ice Treatments			0	@	\$6.25	/dose	\$0	
/accine (5 in 1)			0	@	\$0.80	/dose	\$0	
Supplementary Feed								
Hay		45	tonne	@	\$160.00	/tonne	\$7,200	
Grain		0.00	t/head	@	\$300.00	/tonne	\$0	
Sale costs and other								
nsurance			\$111,500	@	\$2.00	/\$1000	\$223	
Nater		1997	dse's	@	\$2.50		\$4,992	
/eh Fuel, R&M		1997	dse's	@	\$1.20		\$2,396	
Other		1997	dse's	@	\$0.50		\$998	
Fransport:	Lvstk	78	head	@	\$60.00	/head	\$4,680	
	Hay	45	tonne	@	\$50.00	/tonne	\$2,250	
Commission				@	5.5%		\$7,423	
Levies				@	\$5.00	/head	\$390	
TOTAL VARIABLE COSTS	S						\$38,933	
GROSS MARGIN TOTAL							\$96,032	
GROSS MARGIN PER CO)W						\$960	
GROSS MARGIN/DSE							\$48.09	
GROSS MARGIN/hectare	Э						\$6.73	

COMMENTS

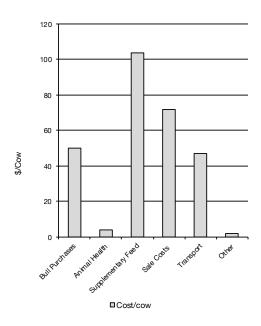
Feed costs include an allowance for drought fodder.
Livestock weight will vary between cattle breed, feed type and age.

	FLITOON									
\$/kg LWT young										
		\$5.30	\$5.50	\$5.70	\$5.90	\$6.10				
	60%	\$479	\$506	\$532	\$558	\$585				
	65%	\$554	\$583	\$612	\$641	\$670				
	70%	\$628	\$660	\$692	\$724	\$755				
	75%	\$702	\$737	\$771	\$806	\$841				
Weaning	80%	\$776	\$814	\$851	\$889	\$926				
%	85%	\$850	\$891	\$931	\$971	\$1,012				
	90%	\$925	\$968	\$1,011	\$1,054	\$1,097				
	95%	\$999	\$1,045	\$1,091	\$1,137	\$1,182				
	100%	\$1,073	\$1,122	\$1,170	\$1,219	\$1,268				

Ρ	ER	DSE

\$/kg LWT young \$5.30 \$5.50 \$5.70 \$5.90 60% \$24 \$25 \$27 \$28 65% \$28 \$29 \$31 \$32 70% \$31 \$33 \$35 \$36	\$6.10
60% \$24 \$25 \$27 \$28 65% \$28 \$29 \$31 \$32 70% \$31 \$33 \$35 \$36	\$6.10
65% \$28 \$29 \$31 \$32 70% \$31 \$33 \$35 \$36	
70% \$31 \$33 \$35 \$36	3 \$29
	2 \$34
	\$38
75% \$35 \$37 \$39 \$40	\$42
Weaning 80% \$39 \$41 \$43 \$45	5 \$46
% 85% \$43 \$45 \$47 \$49	\$51
90% \$46 \$48 \$51 \$53	3 \$55
95% \$50 \$52 \$55 \$57	7 \$59
100% \$54 \$56 \$59 \$6 ⁻	1 \$63

Variable Costs



Beef Trading - High Rainfall

Gross Margin

Assumptions:		(Finishing young cattle for local trade, grass fattened)			
Herd Deaths	2%				
Vealers	8	DSE			
Yearlings	12	DSE			
			1960	Herd DSE	
Stocking rate	10	DSE/ha			
Area required	196	hectares		Drench vealers	1 x
Feeds	35	kg/DSE hay equivalent supplement			

									2022
INCOME									YOUR
								\$	ESTIMATE
Stock sales	0	vealers @		280	kg liveweight@	\$6.05	/kg L/W	\$0	
	196	yearlings		420	kg liveweight@	\$5.00	/kg L/W	\$411,600	
								\$0	
								\$0	
GROSS INCOME								\$411,600	
VARIABLE COSTS									
Purchases									
Vealers				200	@ 280 kg		/kg L/W	\$338,800	
Transport				200		\$30	/head	\$6,000	
Veterinary & Medicines									
Drench - vealers 1x				200	@	\$6.25		\$1,250	
Ear Tags NLIS				196	@	\$4.75	/tag	\$931	
Lice Treatments				200	@	\$6.25	/dose	\$1,250	
Vaccine (5 in 1)				200	@	\$0.80	/dose	\$161	
Supplementary Feed									
Hay		69	tonne		@	\$160.00	/tonne	\$10,976	
Grain		0.00	t/head		@	\$300.00	/tonne	\$0	
Blocks/ Mineral Mix				0	@	\$5.00	/head	\$0	
Sale costs and other									
Insurance			\$33	38,800	@	\$0.00	/\$1000	\$0	
Water		1960	dse's		@	\$1.50		\$2,940	
Veh Fuel, R&M		1960	dse's		@	\$1.20		\$2,352	
Other		1960	dse's		@	\$0.50		\$980	
Transport:	Lvstk	196	head		@	\$30.00	/head	\$5,880	
Commission					@	5.5%		\$22,638	
Levies					@	\$5.00	/head	\$980	
TOTAL VARIABLE COST	S							\$395,138	
GROSS MARGIN TOTAL								\$16,462	
GROSS MARGIN/DSE								\$8.40	
GROSS MARGIN/hectar	е							\$83.99	

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.

Gross Margin Sensitivity

PER	DSE

		1 51	DOL			
		\$/kg Liveweight	sales(yearlings)			
		\$4.60	\$4.80	\$5.00	\$5.20	\$5.40
	\$ 2.70	\$85	\$93	\$101	\$110	\$118
	\$ 2.80	\$82	\$90	\$99	\$107	\$115
\$/kg	\$ 2.90	\$79	\$88	\$96	\$104	\$112
Liveweight	\$ 3.00	\$77	\$85	\$93	\$101	\$110
Purchases	\$ 3.10	\$74	\$82	\$90	\$98	\$107
(Vealers)	\$ 3.20	\$71	\$79	\$87	\$96	\$104
	\$ 3.30	\$68	\$76	\$85	\$93	\$101

Beef Feed Lot

Gross Margin

Assumptions:	Local supermarket, 210kg HSCW Carcase, AUSMEAT Fat Score 3-4								
Steer Costs:									
Steer purchase	\$960		for		240	kg @	\$4.00	/kg liveweight	
Transport In	\$30.00	/head					Average weight gain:-	1.80	kg/hd/day
Est. dressing %	55	%				Carcas	se weight specification :-	230	kg HSCW
							Final liveweight in lot	418	kg
							Avge liveweight in lot	329	kg
							Est. time on feed	100	days
Feed Costs:							Avge daily Feed intake	11.515	kg
Total feed consumed		1	151	kg			(3.5% of Liveweight)		
Feed Wastage	5%		58	kg		Death Ra	ate	1%	
Feed cost per tonne		\$265	.00	withou	t premix i	supplime	ent		

								2022
INCOME							<u>Per</u>	YOUR
Finished steers & 2% poor p	erformers sold at 30 da	ıys					<u>Head</u>	ESTIMATE
0.97	Steer @		_	carcass @	\$9.70	/kg HSCW	\$2,164.07	
0.02 \$	Steer @	240	kg l	iveweight	\$6.30	/kg LVWT	\$30.24	
0.01 \$	Steer @	0			\$0.00		\$0.00	
TOTAL INCOME							\$2,194.31	
VARIABLE COSTS							-	
Purchases								
Steer purchase		1		@	\$1,500	/head	1,500.00	
Feeding Out & Feed								
Feed purchased		1180	kg	@	\$265.00	/tonne	312.58	
Premix cost per tonne mixed	feed	1180	kg	@	\$50.00	/tonne	58.98	
Milling costs + Labour				@	\$28.00	/head	28.00	
Water				@	\$20.00	/head	20.00	
Veterinary & Medicines								
Drench, Dectomax		1		@	\$5.64	/head	5.64	
Ear Tags		1		@	\$0.50	/tag	0.50	
HGP implant, Synovex		0		@	\$2.50	/dose	0.00	
Lice Treatments		0		@	\$0.00	/dose	0.00	
Vaccine, Ultravac 5 in 1		1		@	\$0.58	/dose	0.58	
Veterinary		1		@	\$1.25	/head	1.25	
Vitamin injection		0		@	\$4.08	/head	0.00	
Losses		0.60%		@	\$10.88	/head	10.88	
Sale, transport and other cos	ts							
Insurance		\$1,500		@	\$2.00	/\$1000	3.00	
Transport I	n	1		@	\$15.00	/head	15.00	
(Out	1		@	\$30.00	/head	30.00	
Commission				@	6%	/head	120.69	
Levies				@	\$5.00	/head	4.95	
Accreditation costs on a 600	hd/year throughput						1.00	
TOTAL VARIABLE COSTS							\$2,113	
GROSS MARGIN PER HEAD)						\$81	
Current interest rate		5.0%						
Interest on cattle					\$20.55			
Interest on feed					\$4.28			
GROSS MARGIN AFTER IN	TEREST						\$56	
Break even sale price : c	/kg on purchase pric	e, costs &	k int	erest			\$945	
Break even purchase price	: c/kg on sale pric	e & costs					\$636	

COMMENTSFeed consumed allows for poor performing stock sold at 30 days with 5% wastage.

Gross Margin Sensitivity

	PER HEAD									
	\$/kg HSCW Carcase									
			\$6.50	\$6.80	\$7.10	\$7.40	\$7.70			
	\$	210.00	-\$581	-\$512	-\$444	-\$375	-\$307			
	\$	220.00	-\$592	-\$524	-\$456	-\$387	-\$319			
	\$	230.00	-\$604	-\$536	-\$467	-\$399	-\$331			
Feed Cost	\$	240.00	-\$616	-\$548	-\$479	-\$411	-\$342			
/tonne	\$	250.00	-\$628	-\$559	-\$491	-\$423	-\$354			
	\$	260.00	-\$640	-\$571	-\$503	-\$434	-\$366			
	\$	270.00	-\$651	-\$583	-\$515	-\$446	-\$378			

Farm Costs - Livestock 2022

Note: The below 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

Extrosard Extr	Lice Control	Avenge	\$20.00	∕litre
Schiopsad Eliminator Schiopsad Schimator S		Extinoead		
Protect Protect Stroto		Extinosad		
Picroth		Extinosad Eliminator		
Viper		Piranah	\$770.00	/litre
Demoth		Viper	\$22.00	/litre
Avantee Duel \$49,00 filter \$0.59 /12mt does \$49,00 filter \$0.59 /12mt does \$0.59 /12mt does \$0.59 /12mt does \$0.50 /12mt does \$0.50 /12mt does \$0.78 /12mt does \$0.78 /12mt does \$0.50 /12mt does \$0	Drench	Triquard		
Co-Derrich			\$0.46	/12ml dose
O-Drench \$65.00 After \$17.2 After \$1.2 After \$1		Avomec Dual		
Cydectin		Q-Drench	\$65.00	/litre
Dynamax Capsules		Cydectin	\$30.00	/litre
Zolvix Plus		Dynamax Capsules		
Startect Sandon Some Som		7.1. 0		
Startect Sp.00 / Aire		ZOIVIX PIUS		
Startect		Cydectin Long Acting Injectable		
Vaccine Glanvac 3 \$62.00 250.011 Glanvac 3B12 \$112.00 250.011 Glanvac 3B12 \$112.00 250.011 Glanvac 3B12 \$130.00 250.011 Glanvac 6 \$130.00 250.011 Glanvac 6 \$830.00 250.011 Glanvac 6B12 \$130.00 250.011 Glanvac 6B12 \$140.00 250.011 Glanvac 6SB12 \$140.00 250.011 Glanvac 6SB12 \$160.00 250.011 Glanvac 6SB12 \$100.00 250.011 Glanvac 6B12 \$100.00 250.011 Glanvac 6B12 \$100.00 250.011 Glanvac 100.00 250.011 Glanvac 100		Startect		
Glarvac 3B12 \$112.00 /250ml Glarvac 3B12 \$112.00 /250ml Glarvac 3B12 \$130.00 /250ml Glarvac 6B12 \$138.00 /250ml Glarvac 6B12 \$138.00 /250ml Glarvac 6B12 \$138.00 /250ml Glarvac 6B12 \$138.00 /250ml S0.59 / Imt dose Glarvac 6B12 \$165.00 /250ml S0.59 / Imt dose Glarvac 6B12 \$165.00 /250ml S0.66 / Imt dose Cobalife Vit B12 + S \$66.00 /500ml Cobalife Vit B12 + S \$65.00 /500ml Glarvac 5 in 1 \$65.00 /500ml S0.13 / Imt dose Ultravac 5 in 1 with B12 \$80.00 /500ml Weanerguard B12 + S \$200.00 /500ml Weanerguard B12 + S \$200.00 /500ml Weanerguard B12 + S \$265.00 /500ml S0.38 / Imt dose Eweguard B12 + S \$265.00 /500ml S0.38 / Imt dose Gudiar \$1.30 /5ml dose S0.50 / S0.0ml S0.50			\$1.08	/12ml dose
Glarvac 3B12 \$112.00 250ml \$0.45 /1 ml dose \$0.50 50ml dose \$0.50 750ml \$0.50 7	Vaccine	Glanvac 3		
Glanvac 3SB12 \$13.0.0 250ml dose \$0.52 7lml dose \$0.59 7lml dose \$0.66 7lml dose \$0.66 7lml dose \$0.66 7lml dose \$0.66 7lml dose \$0.00 7500ml \$0.12 7lml dose \$0.12 7lml dose \$0.12 7lml dose \$0.13 7lml dose \$0.15		Glanvac 3B12		
Summar		Clarina 3CD12		
Survace 6B12 \$148.00		GIATIVAC 3SB 12		
Glarwac 6B12 \$148.00 /250ml \$0.59 /1ml dose \$0.59 /1ml dose \$0.59 /1ml dose \$0.60 /250ml \$0.66 /1ml dose \$0.66 /1ml dose \$0.66 /1ml dose \$0.00 /500ml \$0.00 /1ml dose \$0.00 /500ml \$0.00 /1ml dose \$0.00 /500ml \$0.00 /5		Glanvac 6		
Glarvac 6SB12 \$165.00 /250ml \$0.06 /1ml dose \$0.00 \$0.00ml \$		Glanvac 6B12	\$148.00	/250ml
Cobalife Vit B12		Glanvac 6SB12		
S0.12		Cobalife Vit B12		
Ultravac 5 in 1			\$0.12	/1 ml dose
Ultravac 5 in 1		Cobalife Vit B12 + S		
Ultravac 5 in 1 with B12		Ultravac 5 in 1		
Weanerguard B12 + S \$22.00		Ultravae 5 in 1 with R12		
Stabigard B12 + S \$265.00		Ontavae 5 III 1 Will 15 12		
Eweguard B12 + S \$265.00 /500ml \$1.33 /2.5ml dose \$1.50.00 /5ml \$0.50 /5ml \$0.50 /0.02ml dose \$1.50.00 /5ml \$0.50 /0.02ml dose \$1.50.00 /250ml \$0.68 /1ml dose \$0.60 /250ml \$0.60 /250ml \$0.60 /250ml \$0.60 /500ml \$0.60 /500ml \$0.60 /500ml \$0.80 /5ml dose \$0.79 /66ml dose		Weanerguard B12 + S		
Scabigard \$125.00 5ml \$0.50		Eweguard B12 + S		
Substitute		Outble		
Sudiar \$732.00 250ml \$732.00 250ml \$2.93 71ml dose \$732.00 250ml \$2.93 71ml dose \$360.00 500ml \$1.80 5ml dose \$1.80 75ml d		Scabigard		
Gudiar \$732.00 /250ml \$2.93 /1ml dose \$2.93 /1ml dose \$360.00 /500ml \$1.80 /5ml dose \$1.		Eryvac		
Multimin Injection		Gudiar	\$732.00	/250ml
Vit ADE		Multimin Injection	\$360.00	/500ml
Blowfly Control Clik \$58.00 /litre Vetrazin Spray On \$12.00 /litre \$0.79 /66ml dose Vetrazin Jetting Fluid \$38.00 /litre \$76.00 per 2L=1000l jetting fluid \$60.00 /litre		Vit ADE	\$160.00	/500ml
\$1.39 /24 ml dose Vetrazin Spray On \$12.00 /litre \$0.79 /66ml dose Vetrazin Jetting Fluid \$38.00 /litre \$76.00 per 2L=1000l jetting fluid Blowfly and Lice \$60.00 /litre	Blowfly Control	Clik		
\$0.79 /66ml dose Vetrazin Jetting Fluid \$38.00 /litre \$76.00 per 2L=1000l jetting fluid Blowfly and Lice \$60.00 /litre		Vetrazia Caray Ca		
Vetrazin Jetting Fluid \$38.00 /litre \$76.00 per 2L=1000l jetting fluid Blowfly and Lice \$60.00 /litre		veirazin spray On		
Blowfly and Lice \$60.00 /litre		Vetrazin Jetting Fluid	\$38.00	/litre
		Blowfly and Lice		
\$120.00 per 2L=1000l jetting fluid				

Wool packs	nylon	\$12.40	ea
Shearing	Sheep	\$318.62	/100
	rams	\$637.24	/100
	shed labour	\$241.12	/day
	wool classer	\$306.75	day
	superannuation	9.50%	wages
	Work Cover-Allow	4.00%	total
	shed sundries	\$0.20	/head
Crutching	sheep	\$92.40	/100
	rams	\$184.80	/100
Lamb marking	mulesing / materials	\$1.40	/head
	marking only	\$1.15	/head
	ear tags	\$0.43	/head
	Tri-Solfen	\$165.00	/litre
		\$1.65	/10 ml dose
Stock selling	commission/insurance	6.0%	
	yard fees		/head
	sheep transaction levy		/head
	lamb transaction levy		/head
	SA sheep industry levy		/head
	wool brokerage / testing / insurance	\$0.27	•
	wool levy	1.5%	

Beef

Drench	Eprinex Pour-on	\$87.50 /litre
		\$4.38 /25ml dose
	Eclipse Combination Pour-on	\$190.00 /litre
		\$5.23 /27.5ml dose
	Cydectin Pour-on	\$77.00 /litre
		\$4.24 /55ml dose
	Baymec LV	\$58.40 /litre
		\$0.73 /12.5ml dose
	Dectomax Pour-on	\$80.00 /litre
		\$4.40 /55ml dose
Fly and Lice	Arrest Easy Dose	\$92.00 /litre
		\$2.76 /30ml dose
Vaccine	Ultravac 5 in 1	\$65.00 /250 ml
		\$0.52 /2ml dose
	Ultravac 5 in 1 with B12	\$95.00 /500 ml
		\$0.76 /4ml dose
	Ultravac 7 in 1	\$220.00 /250 ml
		\$2.20 /2.5ml dose
	Multimin Inj	\$380.00 /500ml
		\$3.80 /5 ml dose
	Vit ADE	\$160.00 /500ml
		\$1.60 /5ml dose
	Cobalife Vit B12	\$60.00 /500 ml
		\$0.60 /5 ml dose
	Cobalife Vit B12 + S	\$65.00 /500ml dose
		\$0.65 /5ml dose
NLIS Breeder Tags (incl levy)		\$4.75 each
Electronic Sheep Tags		\$1.65 each
Indicative freight costs	Freight cattle in	\$30.00
for GM purposes	Freight cattle out	\$30.00
	Freight cattle out (Pastoral)	\$60.00
	Cattle levy	\$5.00

Feed & Other Costs

Water	\$2.50	/DSE
Veh Fuel, R&M	\$1.00	/DSE
Other	\$0.50	/DSE
Hay	\$260.00	/tonne incl freight
Feed Cereal grain	\$280.00	/tonne incl freight
Lupins	\$450.00	/tonne incl freight
Pre Lambing Lick Block	\$30.00	/block
Dry Feed Lick Block	\$32.00	/block

Stock Returns

	2017 Average (Clean)	2018 Average (Clean)	2019 Average (Clean)	2020 Estimated Price (Clean)	2020 Estimated Greasy Price
WOOL- High Rainfall 28 mic 70% yield	756	895	1027	915	641
- High Rainfall 19 mic 70% yield	1878	2223	2039	1820	1274
- Med Rainfall 21 mic 68% yield	1533	2085	1995	1780	1210
- Low Rainfall 22 mic 63% yield	1461	2065	1983	1765	1112
- Crossbred Ram 32 mic 64% yield		450	539	485	310

Farm Costs - Cropping 2022

Note: The below 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.

Chemical Costs - Herbicides

0.4 D. Amino (605 a /l)	ΦE 00	Aitro
2,4-D Amine (625g/l) 2,4-D LV Ester (680g/l)	\$5.90 \$8.45	
Achieve® WG	\$52.00	
Affinity®	\$114.90	-
Aptitude®	\$59.76	
Atlantis® (mesosulfuron 30g/L)	\$88.00	-
Atrazine (900 g/kg)	\$6.93	
Axial®	\$130.00	
Balance ®		/gram
Boxer Gold®	\$12.52	-
Broadstrike®	\$0.39	/gram
Diflufenican (Brodal)	\$39.50	/litre
Bromoxynil 200	\$16.30	/litre
Bromoxynil /MCPA	\$18.85	/litre
Cadence® (700gm/Kg Dicamba)	\$35.90	/kg
Chlorsulfuron 750g/kg (Glean)	\$0.08	/gram
Clopyralid 300g/L (Lontrel® Advanced)	\$17.25	/litre
Rexade® (New formulation of Crusader®)	\$330.00	/litre
Diuron 900 gm a.i. granules	\$13.25	/kg
Factor® (butroxydim 250g/kg)		/gram
Flight®	\$30.00	
Triclopyr 755g/L	\$20.50	
Triclopyr 600g/L	\$13.80	
Glyphosate 540g/L	\$5.40	
Glyphosate 450g/L	\$4.50	
Carfentrazone 400g/L (Hammer)	\$151.80	
Intervix®	\$29.46	
Metribuzin 750 gm/kg	\$48.00	-
M.C.P.A. LVE	\$8.14	
MCPA Amine (750g/L)	\$9.94	
Metsulfuron methyl	\$0.06	
Oxyfluorfen 240g/L Paradigm®	\$15.76	/gram
Paraquat 250 g/L	\$4.95	-
Precept®	\$16.50	
Propyzamide (500 g/L)	\$21.80	
Quizalofop 200g/L	\$19.80	
Raptor	\$0.50	
Regione®	\$13.80	
Roundup Ready PL with Plantshield	\$6.00	
Sakura®	\$343.20	
Sentry®		/gram
Clethodim (360g/L)	\$20.50	/litre
Sharpen®	\$0.42	/gram
Simazine Granules 900g/kg	\$7.53	/kg
S-metolachlor 960g/L (Dual@Gold)	\$16.00	/litre
lmazethapyr 700g/kg	\$93.00	/kg
Sprayseed®	\$9.50	/litre
Starane® Advanced (fluroxypyr 333g/L)	\$22.95	/litre
Terbyne® 875	\$21.00	/kg
Tigrex	\$14.00	
Topik® EC	\$33.36	/litre
Tri-allate 500g/L	\$11.50	
Triasulfuron 750g/kg (Logran)	\$0.10	-
Valor®	\$146.67	
Velocity®	\$32.15	
Trifluralin 480g/L	\$8.00	
Haloxyfop 520g/L (Verdict)	\$44.00	
Talinor	\$26.26	
Prosulfocarb	\$9.95	
Pixxaro	\$42.50	
Butisan Luximax	\$39.00 \$78.00	
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Chemical Costs - Adjuvants

Uptake (Oil)	\$6.20 /litre
BS-1000 (WETTER)	\$5.60 /litre
Supercharge®	\$7.20 /litre
Hasten®	\$4.70 /litre
Banjo®	\$4.95 /litre
Adigor®	\$8.40 /litre
Hot-up®	\$5.00 /litre
LI-700	\$4.90 /litre
Ammonium Sulphate	\$0.90 /kg
Oil Cost (Assume 751/ha @0.5% oil)	\$2.33
Wetter Cost per Ha (Assume 75I/ha @ 0.1% surf)	\$0.42

Chemical Costs - Insecticides

Dimethoate 400g/L	\$9.10 /litre
Alpha-cypermethrin 16g/L	\$7.29 /litre
Lambda-cyhalothrin (Karate Zeon®)	\$108.00 /litre
Trojan®	\$95.98 /litre
Sumi-Alpha® Flex	\$9.84 /litre
Pyrinex® Super	\$11.60 /litre
Imidan®	\$13.50 /litre
Pirimicarb 500g/kg	\$30.00 /kg
Chlorpyrifos 500g/L	\$9.78 /litre
Bifenthrin 250g/L (Talstar®)	\$34.00 /litre
Imidacloprid 600g/L	\$36.30 /litre
Transform	\$180.00 /litre
Affirm	\$79.70 /litre
Cruiser 350	\$49.50 /litre
Cobalt	\$8.45 /litre
Omethoate	\$28.00 /litre

Chemical Costs - Fungicides

Apron® XL 350 ES	\$395.00	/litre
Mancozeb 750g/kg	\$8.83	/kg
Veto® 25C Flowable	\$13.86	/litre
Vibrance®	\$38.40	/litre
EverGol® Energy	\$54.50	/litre
Rancona Dimension®	\$40.00	/litre
Baytan® T Flowable	\$14.95	/kg
Pontiac®	\$26.25	/kg
P-Pickel T	\$34.00	/litre
Carbendazim 500g/kg	\$9.85	/kg
Tebuconazole 430	\$14.90	/litre
Propiconazole 250g/L	\$11.39	/litre
Chlorothalonil 720g/L	\$12.54	/litre
Prosaro®	\$74.50	/litre
Amistar Xtra®	\$34.00	/litre
Tazer® Xpert	\$14.50	/litre
Systiva®	\$215.30	/litre
Procymidone 500g/L	\$24.60	/litre
Cogito®	\$24.17	/litre
Veritas®	\$24.90	/litre
Epoxiconazole 125g/L	\$24.00	/litre
Flutriafol (500g/l)	\$39.00	/litre
Aviator X-Pro®	\$54.50	/litre
Uniform®	\$63.30	/litre

Chemical Costs - Trace Elements

Zinc (65% Zn)	\$11.40 /litre
Copper (50% Cu)	\$17.50 /litre
Manganese (40% Mn)	\$11.90 /litre

Fertilizer Costs

MAP 10:22	\$575 /tonne
DAP 18:20	\$575 /tonne
Urea	\$500 /tonne
Superphosphate	\$360 /tonne
Granulock Z 11:22:0:4 plus 1% Zinc	\$640 /tonne
DAP + Urea 24:16	\$576 /tonne
DAP + Urea 28:13	\$565 /tonne
DAP + Urea 32:10	\$554 /tonne
Sulphate of Ammonia	\$400 /tonne

Fuel Costs

Total price - Diesel (GST Exc)	\$1.30 /litre
Rebate	\$0.42 /litre
Net Price Diesel - \$/litre (includes rebate)	\$0.88 /l bulk

Grain Grading and Pickling

		Cost/Tonne	
Grading and pickling	cereals	\$24.00	
	other crops	\$30.00	
Grain Pickling- Wheat	Veto® 25C Flowable	\$13.86	
-Durum	EverGol® Energy	\$141.70	
-Barley	Systiva®	\$322.95	
Note- Assumes minimum standard diseases. Seek advice	of application for smuts and bunts. More expens	ive options available which	may give some control of foliar
Aphid Control - Cereals	lmidacloprid (240ml/100Kg)	\$8.71	/100 kg treated seed
- Lupins	lmidacloprid (300ml/100Kg)	\$10.89	/100 kg treated seed
Inoculant	Legumes	\$50.00	/tonne treated seed
Seed Treatment	Apron® XL 350 ES	\$296.25	/tonne treated seed
	P-Pickle T	\$68.00	/tonne treated seed

Contract Rates (indicative only)

		Range
Ground Spraying	\$11.00 /hectare	90
. , ,	• • • • • • • • • • • • • • • • • • • •	
Aerial spraying	\$15.00 /hectare	
Contract harvesting cereals, low rainfall	\$60.00 /hectare	\$55-65/Ha
Contract harvesting cereals, medium rainfall	\$75.00 /hectare	\$70-80/Ha
Contract harvesting cereals, high rainfall	\$90.00 /hectare	\$85-95/Ha
Contract harvesting pulse/canola, low rainfall	\$70.00 /hectare	\$60-80/Ha
Contract harvesting pulse/canola, medium rainfall	\$85.00 /hectare	\$75-95/Ha
Contract harvesting pulse/canola, high rainfall	\$100.00 /hectare	\$90-110/Ha
Windrowing	\$38.00 /hectare	
Contract spreading	\$8.50 /hectare	excludes cartage
Contract sowing	\$50.00 /hectare	
Haymaking		
Contract mowing/ conditioning	\$50.00 /hectare	
Hire of rake (supply own tractor and labour)	\$8.00 /hectare	
Contract baling (725kg square bales)	\$25.00 /bale	
Super conditioner (oaten hay)	\$25-40.00 /hectare	
Hav Accumulation	\$3.00 /bale	

Freight Costs (incl in GMG)

CANOLA (\$ /tonne)	\$30.00
FERTILIZER (\$ /tonne)	\$25.00
LENTILS (\$ /tonne)	\$35.00
OTHER LEGUME GRAINS (\$ /tonne)	\$30.00
CEREAL GRAINS (\$ /tonne)	\$25.00
TRITICALE (\$ /tonne)	\$25.00
HAY-OATEN (\$ /tonne)	\$30.00

Insurance Costs

Livestock		
Sheep and cattle	\$2.00 /\$1,000 insured	
Crops		
Cereals	\$9.00 /\$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	

Machinery Cost

Repairs & Maintenance - as a % of new value (shown below).

Lubrication costs - 5% of fuel cost.											
Machine	New Value	Expected Life - hours	Work Efficiency %	Work Rate ha/hr	Fuel Use litre/hr	Rep & Main % New Value	Hours use per year	Rep & Main	Costs pe	r Hectare Lubric'n	Total
Tractor (220kW)	250000	8,000				2	500	\$10.00	Cost per hour Cost per hour		\$10.00
Tractor (90kW)	150000	8,000				2	500	\$6.00			\$6.00
S.P. header (11.5m)	700000	2,500	85%	9.0	50	2.5	250	\$7.78	\$0.00	\$0.00	\$7.78
S.P. header (11.5m) peas, lentils, vetch	700000	2,500	70%	7.0	50	4	250	\$16.00	\$0.00	\$0.00	\$16.00
S.P. header (11.5m) beans, chicks, lupins	700000	2,500	70%	7.5	50	3	250	\$11.20	\$0.00	\$0.00	\$11.20
Airseeder (15m)	250000	2,000	80%	10.0	45	2	250	\$2.00	\$0.00	\$0.00	\$2.00
Boomspray (36m)	140000	1,500	75%	45.0	20	2	150	\$0.41	\$0.00	\$0.00	\$0.41
Roller (12m)	30000	5,000	90%	10.0	20	1	20	\$1.50	\$0.00	\$0.00	\$1.50
Mower-conditioner (5m)	60000	2,000	80%	4.0	12	2	100	\$3.00	\$0.00	\$0.00	\$3.00



SA grain growers funding research solutions

The South Australian Grain Industry Trust annually invests more than \$1.8 million in a range of areas crucial to advancing the SA grain industry, including grain growing, farming systems, soil management, harvesting, storage, processing and marketing, and for dissemination of technical information to growers.

SAGIT is investing \$2.5 million in new research projects, starting in 2021-22:

- Boosting profitability and efficiency of SA's trade in containerised grain, Australian **Export Grains Innovation Centre**
- Acid soils, ripping and lentil production improvement, Elders Rural Services
- Lentil varieties for low rainfall and sandy soil environments, Global Grain Genetics
- Variety selection and weed management options for genetically modified canola, Hart Field-Site Group
- Frost Learning Centre for farmers, advisers and researchers, Mid North High Rainfall Zone Group
- Pasture legume choices, establishment and persistence for the Murray Plains, Murray Plains Farmers
- A practical approach to sub-surface acidity in the Mid North, Precision Agriculture
- Developing criteria for soil and plant aluminium and manganese toxicity in South Australia, PIRSA
- 2022 Farm Gross Margin Guide for SA, Rural Solutions SA

- Improving management of Group A resistant barley grass in current farming systems, SARDI/University of Adelaide
- Grower crop root health workshops, SARDI/University of Adelaide
- Measuring and managing yield loss caused by Phoma root in lentil and faba bean, SARDI/University of Adelaide
- Extension support for SA Drought Hub Internship Program, SARDI/University of Adelaide
- · Investigating aluminium speciation in wheat roots in alkaline soil, SARDI/University of
- Evaluating super high oleic acid safflower in sodic and saline soils, SARDI/University of Adelaide
- Characterising the optimal flowering period for the Murray Plains, SARDI/University of
- Eyre Peninsula Farming Systems Summary 2021-2023, SARDI

- The implications of green hydrogen for SA grain growers, SANTFA
- Improving crop safety and broadleaf weed control with herbicides in lentil, Trengove Consulting
- Improved management of variable phosphorus requirement and strategies for highly responsive soils, Trengove Consulting
- Faba bean nutrient omission trial, Thomas Elder Institute
- · Understanding and managing fertiliser toxicity in pulses in SA, University of
- · Revealing the basis for head loss in barley, University of Adelaide
- Developing a DGT methodology to assess bioavailability of herbicide residues, University of South Australia
- Lower Eyre Peninsula Ag Expo 2021, AIR
- Maximising performance of post-emergent herbicides workshops on upper Eyre Peninsula, AIR EP

SAGIT is also supporting these ongoing projects:

- · Promoting secondary and tertiary student engagement in crop production, AgXtra
- Optimising P nutrition in pulses to maximise N fixation and yield, Agronomy Solutions
- Eyre Peninsula internship in applied grains research, AIR EP
- Regional internship in applied grains research, Hart Field-Site Group
- Long-term cropping systems trial, Hart Field-Site Group
- Taking South Australian canola profitability to the next level, EPAG Research
- MacKillop Farm Management Group annual trial results book, MacKillop Farm Management Group
- · Deep ripping to enhance production on Mallee

- sandy soils, Mallee Sustainable Farming
- · Revealing invertebrate species and conditions causing seedling damage in field settings, SARDI/University of Adelaide
- SA Crop Variety Sowing Guide, SARDI
- Improving productivity of oats, SARDI
- Improving the early management of dry sown cereal crops, SARDI
- SANTFA Conference 2021-2023, SANTFA
- Pre-emptive flame retardant as a new tool for SA grain growers, SANTFA
- Management of fungicide resistant wheat powdery mildew, Trengove Consulting
- · Enhancing grain production and quality traits for bread wheat, University of Adelaide
- · A genetic, environmental and functional

- investigation of late maturity alpha-amylase (LMA) and its implications for wheat breeding, University of Adelaide
- Development of a dual-purpose common vetch variety for arid South Australia, University of Adelaide
- Upper North barley time of sowing; frost / heat stress effects, Upper North Farming Systems
- · Comparative effects of agricultural pesticides on SA soil microbial functions, University of South Australia
- Supporting premier PA events: Precision Ag expos and symposia, Society of Precision Agriculture Australia