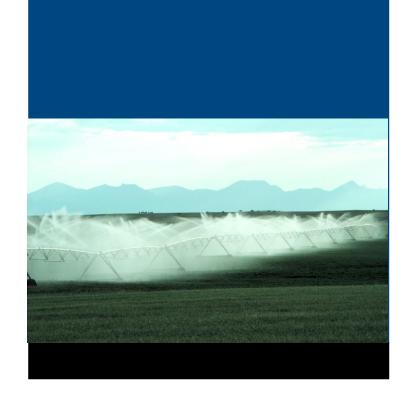
AgriProfit\$

2011 Cost and Return Benchmarks for Crops and Forages

**Irrigated Soil Zone** 



berta Government

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# 2011 Irrigated Soil Zones

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#### 2011 Irrigated Soil Zone

The *AgriProfit*<sup>#</sup> Business Analysis and Research Program provides a provincial overview of costs and returns for field crops and forages. The Economics Branch collects cost of production information annually from Alberta producers to generate regional benchmarks. Producer participants are critical to providing a financial representation of Alberta's cropping industry.

*AgriProfit*<sup>#</sup> cropping benchmarks are analyzed by soil zone group, top third producers, and owned land versus rented land where available. Top third averages are calculated from fields that have the highest return to equity. Analyzing crops by owned versus rented also provides insight into differences in management.

Benchmarks allow for comparison of individual crop costs and returns to other farms in a similar production area. Benchmarks should not replace individual cropping and financial records. There is a risk of over or underestimating costs and returns if basing them on regional benchmarks and forecasts. Strategic planning is more effective when individual costs are used. Managing unit costs of production is one of the most significant strategies to ensure profitability in a mature commodity market.

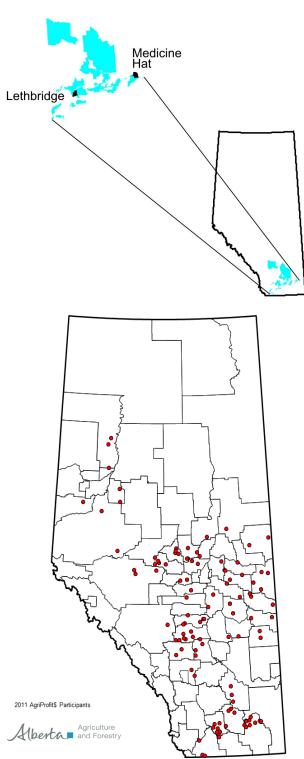
The top map shows the Irrigated Soil Zone in Alberta; this is the grouping method used for this study. Please note that farms highlighted within these zones may contain characteristics of neighbouring soil zones. The map on the bottom shows the distribution of the 2011 participants.

#### **Questions or Comments:**

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	Crop: Soil Zone:	Spring Wheat All - Irrigated	- All				
	Unit:	Bushel		\$/Ac	ro	\$/Busł	nel
	onnt.	Dusner		Average	Top 1/3	Average	Top 1/3
(A)	1. Crop Sales			515.64	562.34	6.54	6.70
	2. Crop Insura	nce Receipts		8.57	0.90	0.11	0.01
:	3. Other Recei	pts		13.89	22.39	0.18	0.27
	Gross Rece	eipts		538.10	585.63	6.82	6.98
(B)	Cost Items						
	1. Seed			23.69	22.59	0.30	0.27
	2. Fertilizer			104.25	98.82	1.32	1.18
	3. Chemical			37.99	37.71	0.48	0.45
		surance Premium	I	22.25	21.43	0.28	0.26
	5. Trucking and			4.73	9.13	0.06	0.11
	6. Fuel	5		21.77	23.45	0.28	0.28
		el and Electricity		3.91	5.17	0.05	0.06
	8. Repairs - Ma	-		28.43	27.52	0.36	0.33
	9. Repairs - Bu			0.46	0.56	0.01	0.01
	10. Utilities and	0		24.31	24.34	0.31	0.29
	11. Custom Wo	rk		8.11	13.56	0.10	0.16
	12. Operating In	terest Paid		2.27	2.01	0.03	0.02
	13. Paid Labour			19.04	21.69	0.24	0.26
	14. Unpaid Labo	bur		11.95	13.70	0.15	0.16
	Variable Co	osts		313.17	321.67	3.97	3.83
(C)	1. Cash/ Share	e Land Rent		48.05	12.82	0.61	0.15
• •	2. Taxes, Wate	er Rates, License	& Ins.	20.24	31.95	0.26	0.38
:	3. Equipment a	and Building: a)	Depreciation	68.31	62.71	0.87	0.75
		b)	Lease Payments	1.03	0.00	0.01	0.00
	4. Paid Capital	Interest	-	22.37	21.92	0.28	1.54
	Capital Cos	its		160.01	129.40	2.03	2.82
(D)	Cash Costs	i	(B+C-B14-C3a)	392.92	374.66	4.98	5.75
<u>(E)</u>	Total Produ	ction Costs	(B+C)	473.18	451.07	6.00	6.66
	Gross Marg	jin	(A-D)	145.18	210.97	1.84	1.23
	Return to U	Inpaid Labour	(A-E+B14)	76.87	148.26	0.97	0.49
	Return to Ir		(A-E+C4)	87.29	156.47	1.11	1.87
	Return to E	quity	(A-E)	64.92	134.55	0.82	0.32
	Investment Buildings			288.48	255.17		
	Buildings						
	Machinery			503.50	498.64		
	Irrigation Ma <b>Total (inc</b>			115.88 2881.15	87.39 <b>4095.44</b>		
	Managama	<b>a</b> t					
	Managemer Average Yie		ushel/acre)	78.85	83.88		
	Expected Ma		/Bushel)	78.85 6.54	6.70		
			Dushelj	0.04	0.70		

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			g Wheat rrigated	- Own					
		Unit: Bush	-		\$/Acre		\$/Bushel		
					Average	Тор 1/3	Average	Top 1/3	
(A)	1.	Crop Sales			507.21		6.60		
	2.		ceipts		12.17		0.16		
	3.	Other Receipts			10.07		0.13		
		Gross Receipts			529.45	0.00	6.89	0.00	
(B)		Cost Items							
	1.	Seed			23.69		0.31		
	2.	Fertilizer			103.43		1.35		
	3.	Chemical			39.31		0.51		
	4.	Hail/Crop Insurance	e Premiur	n	23.52		0.31		
	5.	Trucking and Marke	eting		3.18		0.04		
	6.	Fuel			20.94		0.27		
	7.	Irrigation Fuel and I	Electricity		4.58		0.06		
	8.	Repairs - Machiner	-		28.07		0.37		
		Repairs - Buildings	•		0.58		0.01		
		. Utilities and Miscell	aneous		25.36		0.33		
		. Custom Work			8.34		0.11		
	12	. Operating Interest I	Paid		2.27		0.03		
		. Paid Labour			18.76		0.24		
		. Unpaid Labour			11.35		0.15		
		Variable Costs			313.40	0.00	4.08	0.00	
(C)	1.	Cash/ Share Land I	Rent		0.00		0.00		
(-)		Taxes, Water Rates		e & Ins.	29.95		0.39		
	3.			Depreciation	73.97		0.96		
	0.	= qa.p		Lease Payments	1.82		0.02		
	4	Paid Capital Interes	,	Loudo r dymonio	22.04		0.29		
		Capital Costs			127.78	0.00	1.66	0.00	
(D)		Cash Costs		(B+C-B14-C3a)	355.86		4.63		
(E)		Total Production (	Costs	(B+C)	441.18		5.74		
<u> </u>		Gross Margin		(A-D)	173.59		2.26		
		Return to Unpaid	Labour	(A-E+B14)	99.62		1.30		
		Return to Investm		(A-E+C4)	110.31		1.44		
		Return to Equity		(A-E)	88.27		1.15		
		Investment			200.02				
		Buildings			290.03				
		Machinery			476.71				
		Irrigation Machinery Total (incl. Land)			203.82 4441.22				
		Management							
		Average Yield	/=	Bushel/acre)	76.82				
		Expected Market P		/Bushel)	6.60				
			iice (\$	DUSHEI)	0.00				

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		Crop: Soil Zone:	Spring Whea All - Irrigated					
		Unit:	Bushel		\$/Ac	re	\$/Bus	hel
			Duomor		Average	Top 1/3	Average	Top 1/3
(A)	1.	Crop Sales			526.75		6.46	
. ,	2.	•	ce Receipts		3.82		0.05	
	3.	Other Receip			18.93		0.23	
		Gross Recei	pts		549.50	0.00	6.74	0.00
(B)		Cost Items						
	1.	Seed			23.70		0.29	
	2.	Fertilizer			105.32		1.29	
	3.	Chemical			36.26		0.44	
	4.	Hail/Crop Ins	urance Premiu	IM	20.58		0.25	
	5.	Trucking and	Marketing		6.78		0.08	
	6.	Fuel			22.85		0.28	
	7.	Irrigation Fue	l and Electricit	у	3.04		0.04	
	8.	Repairs - Ma	chinery		28.90		0.35	
	9.	Repairs - Buil	dings		0.30		0.00	
	10	. Utilities and N	liscellaneous		22.92		0.28	
	11	. Custom Work	(		7.81		0.10	
	12	. Operating Inte	erest Paid		2.26		0.03	
		. Paid Labour			19.41		0.24	
	14	. Unpaid Labou	ır		12.74		0.16	
		Variable Cos	its		312.87	0.00	3.84	0.00
(C)	1.	Cash/ Share	Land Rent		111.37		1.37	
	2.	Taxes, Water	Rates, Licens	se & Ins.	7.45		0.09	
	3.	Equipment ar	nd Building: a	a) Depreciation	60.86		0.75	
			- k	<ul> <li>Lease Payments</li> </ul>	0.00		0.00	
	4.	Paid Capital I	nterest		22.80		0.28	
		Capital Cost	s		202.48	0.00	2.48	0.00
(D)		Cash Costs		(B+C-B14-C3a)	441.75		5.42	
<u>(E)</u>		Total Produc	tion Costs	(B+C)	515.35		6.32	
		Gross Margi		(A-D)	107.75		1.32	
		Return to Ur	ipaid Labour	(A-E+B14)	46.89		0.58	
		Return to In		(A-E+C4)	56.95		0.70	
		Return to Eq	uity	(A-E)	34.15		0.42	
		Investment			000 40			
		Buildings			286.43			
		Machinery	h		538.80			
		Irrigation Mac			0.00			
		Total (incl.	Land)		825.23			
		Management		/ .				
		Average Yield		Bushel/acre)	81.53			
		Expected Ma	rket Price (	\$/Bushel)	6.46			

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Unit:         Tome			-	Sugar Beets All - Irrigated	All					
Average         Top 1/3         Average         Top 1/3           (A) 1. Crop Sales         1260.91         1323.13         53.52         53.52           2. Crop Insurance Receipts         9.87         0.00         0.42         0.00           3. Other Receipts         2.85         7.41         0.12         0.30           Gross Receipts         1273.63         1330.54         54.06         53.82           (B)         Cost Items         1         53.62         5.54         5.28           2. Fertilizer         93.18         84.61         3.95         3.42           3. Chemical         11.53         12.74         0.49         0.52           4. Hail/Crop Insurance Premium         41.42         36.61         1.76         1.49           5. Trucking and Marketing         66.88         72.56         3.77         2.93           6. Fuel         67.35         66.92         2.86         2.71           7. Irrigation Fuel and Electricity         36.51         4.22         2.61         0.18         0.11           10. Ultilies and Miscellaneous         4.287         53.26         1.62         2.15           11. Custom Work         36.51         41.22         1.55 <td< th=""><th></th><th></th><th></th><th>-</th><th></th><th>\$/Ac</th><th>cre</th><th> \$/Ton</th><th>ne</th></td<>				-		\$/Ac	cre	\$/Ton	ne	
2. Crop Insurance Receipts       9.87       0.00       0.42       0.00         3. Other Receipts       2.85       7.41       0.12       0.30         Gross Receipts       1273.63       1330.54       54.06       53.82         (B)       Cost Items       1       100.62       130.62       5.54       5.28         2. Fertilizer       93.18       94.61       3.95       3.42         3. Chemical       11.53       12.74       0.49       0.52         4. Hail/Crop Insurance Premium       41.42       36.91       1.76       1.49         5. Trucking and Marketing       68.88       72.56       3.77       2.93         6. Fuel       67.35       66.92       2.86       2.71         7. Irrigation Fuel and Electricity       36.56       31.85       1.55       1.29         8. Repairs - Machinery       54.19       50.35       2.30       2.04         9. Repairs - Machinery       54.19       50.35       2.30       2.04         9. Repairs - Machinery       36.51       41.22       1.55       1.67         10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Custom Work       36.51       4							-			
3. Other Receipts         2.85         7.41         0.12         0.30           Gross Receipts         1273.63         1330.54         54.06         53.82           (B)         Cost Items	(A)	1.	Crop Sales			1260.91	1323.13	53.52	53.52	
Gross Receipts         1273.63         1330.54         54.06         53.82           (B)         Cost Items         1         30.62         130.62         5.54         5.28           2. Fertilizer         93.18         84.61         3.95         3.42           3. Chemical         11.53         12.74         0.49         0.52           4. Hail/Crop Insurance Premium         41.42         36.91         1.76         1.49           5. Trucking and Marketing         88.88         72.56         3.77         2.33           6. Fuel         67.35         66.92         2.86         2.71           7. Irrigation Fuel and Electricity         36.56         31.85         1.55         1.29           8. Repairs - Machinery         54.19         50.35         2.30         2.04           9. Repairs - Sulidings         4.22         2.61         0.18         0.11           10. Utilities and Miscellaneous         42.87         55.26         1.82         2.15           11. Custom Work         36.51         41.22         1.55         1.67           12. Oparating Interest Paid         11.89         0.89         0.50         0.04           12. Taxes, Water Rates, License & Ins.         30.45		2.	Crop Insurance	e Receipts		9.87	0.00	0.42	0.00	
(B)       Cost Items       130.62       130.62       5.54       5.28         2. Fertilizer       93.18       84.61       3.95       3.42         3. Chemical       11.53       12.74       0.49       0.52         4. Hail/Crop Insurance Premium       41.42       36.91       1.76       1.49         5. Trucking and Marketing       88.88       72.55       3.77       2.93         6. Fuel       67.35       66.92       2.86       2.71         7. Irrigation Fuel and Electricity       36.56       31.85       1.55       1.29         8. Repairs - Buildings       4.22       2.61       0.18       0.11         10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Custom Work       36.51       41.22       1.55       1.67         12. Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       24.50       20.70       1.04       0.84         14. Unpaid Labour       24.50       20.70       1.04       0.84         15. Cash/ Share Land Rent       46.46       45.07       1.97       1.82         2. Taxes, Water Rates, License & Ins.       30.45       22.		3.				2.85	7.41	0.12	0.30	
1. Seed       130.62       130.62       5.54       5.28         2. Fertilizer       93.18       84.61       3.95       3.42         3. Chemical       11.53       12.74       0.49       0.52         4. Hail/Crop Insurance Premium       41.42       36.91       1.76       1.49         5. Trucking and Marketing       88.88       72.56       3.77       2.93         6. Fuel       67.35       66.92       2.86       2.71         7. Irrigation Fuel and Electricity       36.56       31.85       1.55       1.29         8. Repairs - Machinery       54.19       50.35       2.30       2.04         9. Repairs - Machinery       54.19       50.35       2.30       2.04         10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Coustom Work       36.51       41.22       1.55       1.67         12. Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       24.50       20.70       1.04       0.84         Variable Costs       682.47       655.88       28.97       26.53         (C) 1. Cash/ Share Land Rent       46.46       45.07       1.99			Gross Receip	ts		1273.63	1330.54	54.06	53.82	
1. Seed       130.62       130.62       5.54       5.28         2. Fertilizer       93.18       84.61       3.95       3.42         3. Chemical       11.53       12.74       0.49       0.52         4. Hall/Crop Insurance Premium       41.42       36.91       1.76       1.49         5. Trucking and Marketing       88.88       72.56       3.77       2.93         6. Fuel       67.35       66.92       2.86       2.71         7. Irrigation Fuel and Electricity       36.56       31.85       1.55       1.29         9. Repairs - Machinery       54.19       50.35       2.30       2.04         9. Repairs - Machinery       54.19       50.35       2.30       2.04         9. Repairs - Buildings       4.22       2.61       0.18       0.11         10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Coustom Work       36.51       41.22       1.55       1.67         12. Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       24.50       20.70       1.04       0.84         2. Taxes, Water Rates, License & Ins.       30.45       22.66       1										
2. Fertilizer       93.18       84.61       3.95       3.42         3. Chemical       11.53       12.74       0.49       0.52         4. Hail/Crop Insurance Premium       41.42       36.91       1.76       1.49         5. Trucking and Marketing       88.88       72.56       3.77       2.93         6. Fuel       67.35       66.92       2.86       2.71         7. Irrigation Fuel and Electricity       36.56       31.85       1.55       1.29         8. Repairs - Machinery       54.19       50.35       2.30       2.04         9. Repairs - Buildings       4.22       2.61       0.18       0.11         10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Custom Work       36.51       41.22       1.55       1.67         12. Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       24.50       20.70       1.04       0.84         2. Taxes, Water Rates, License & Ins.       30.45       2.68       1.29       0.92         3. Equipment and Building: a) Depreciation       92.92       55.46       3.94       2.24         b) Lease Payments       0.00       <	(B)					400.00	400.00			
3. Chemical       11.53       12.74       0.49       0.52         4. Hail/Crop Insurance Premium       41.42       36.91       1.76       1.49         5. Trucking and Marketing       88.88       72.56       3.77       2.93         6. Fuel       67.35       66.92       2.86       2.71         7. Irrigation Fuel and Electricity       36.56       31.85       1.55       1.29         8. Repairs - Machinery       54.19       50.35       2.30       2.04         9. Repairs - Machinery       54.19       50.35       2.30       2.04         10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Custom Work       36.61       41.22       1.55       1.62       2.05         14. Unpaid Labour       24.50       20.70       1.04       0.64       1.65       2.05         2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.29       0.92										
4. Hail/Crop Insurance Premium       41.42       36.91       1.76       1.49         5. Trucking and Marketing       88.88       72.56       3.77       2.93         6. Fuel       67.35       66.92       2.86       2.71         7. Irrigation Fuel and Electricity       36.56       31.85       1.55       1.29         8. Repairs - Buildings       4.22       2.61       0.18       0.11         10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Custom Work       36.51       41.22       1.55       1.67         12. Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       24.50       20.70       1.04       0.84         14. Unpaid Labour       24.50       20.70       1.04       0.84         2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.99       0.92         3. Equipment and Building: a) Depreciation       92.92       55.46       3.94       2.24         b) Lease Payments       0.00       0.00       0.00       0.00         4. Paid Capital Interest       18.64       137.50       7.93       10.54         (D)       Cash Costs										
5. Trucking and Marketing       88.88       72.56       3.77       2.93         6. Fuel       67.35       66.92       2.86       2.71         7. Irrigation Fuel and Electricity       36.56       31.85       1.55       1.29         8. Repairs - Machinery       54.19       50.35       2.30       2.04         9. Repairs - Buildings       4.22       2.61       0.18       0.11         10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Custom Work       36.51       41.22       1.55       1.67         12. Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       24.57       50.764       1.65       2.05         14. Unpaid Labour       24.57       655.88       28.97       26.53         (C) 1. Cash/ Share Land Rent       46.46       45.07       1.97       1.82         2. Taxes, Water Rates, License & Ins.       30.45       22.68       3.94       2.24         0       Di Lease Payments       0.00       0.00       0.00       0.00         4       Di Lease Payments       0.00       0.00       0.00       0.00       0.00       0.00       0.00		-								
6. Fuel       67.35       66.92       2.86       2.71         7. Irrigation Fuel and Electricity       36.56       31.85       1.55       1.29         8. Repairs - Machinery       54.19       50.35       2.30       2.04         9. Repairs - Machinery       54.19       50.35       2.30       2.04         10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Custom Work       36.51       41.22       1.55       1.67       1.55       1.67         12. Operating Interest Paid       11.89       0.89       0.50       0.04       1.65       2.05         14. Uppaid Labour       24.50       20.70       1.04       0.84         2       Taxes, Water Rates, License & Ins.       30.45       22.68       1.29       0.92         2       Taxes, Water Rates, License & Ins.       30.40       0.00			•							
7.       Irrigation Fuel and Electricity       36.56       31.85       1.55       1.29         8.       Repairs - Machinery       54.19       50.35       2.30       2.04         9.       Repairs - Buildings       4.22       2.61       0.18       0.11         10.       Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11.       Custom Work       36.51       41.22       1.55       1.67         12.       Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       38.77       50.64       1.65       2.05         14.       Unpaid Labour       24.50       20.70       1.04       0.84         Variable Costs       682.47       655.88       28.97       26.53         (C)       1.       Cash/ Share Land Rent       46.46       45.07       1.97       1.82         2.       Taxes, Water Rates, License & Ins.       30.45       22.68       3.94       2.24         b)       Lease Payments       0.00       0.00       0.00       0.00       0.00       0.72       5.56         Capital Costs       (B+C-B14-C3a)       751.91       717.23		-		larketing						
8. Repairs - Machinery       54.19       50.35       2.30       2.04         9. Repairs - Buildings       4.22       2.61       0.18       0.11         10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Custom Work       36.51       41.22       1.55       1.67         12. Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       24.50       20.70       1.04       0.84         Variable Costs       682.47       655.88       28.97       26.53         (C) 1. Cash/ Share Land Rent       46.46       45.07       1.97       1.82         2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.29       0.92         3. Equipment and Building: a) Depreciation       92.92       55.46       3.94       2.24         b) Lease Payments       0.00       0.00       0.00       0.00       0.00         4. Paid Capital Interest       17.02       14.29       0.72       5.56         Capital Costs       (B+C-B14-C3a)       751.91       717.23       31.91       33.99         (E)       Total Production Costs       (B+C)       869.32       793.38       3		-		and Electricity						
9. Repairs - Buildings       4.22       2.61       0.18       0.11         10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Custom Work       36.51       41.22       1.55       1.67         12. Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       24.50       20.70       1.04       0.84         Variable Costs       682.47       655.88       28.97       26.53         (C) 1. Cash/ Share Land Rent       46.46       45.07       1.97       1.82         2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.97       1.82         2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.97       1.82         2. Taxes, Water Rates, License & Ins.       30.45       22.68       3.94       2.24         b) Lease Payments       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.72       5.56       5.56         Capital Interest       17.02       14.29       793.38       36.90       37.07         Gross Margin       (A-D)       521			•	•						
10. Utilities and Miscellaneous       42.87       53.26       1.82       2.15         11. Custom Work       36.51       41.22       1.55       1.67         12. Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       24.50       20.70       1.04       0.84         Variable Costs       682.47       655.88       28.97       26.53         (C) 1. Cash/ Share Land Rent       46.46       45.07       1.97       1.82       2.14         2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.29       0.92         3. Equipment and Building: a) Depreciation       92.92       55.46       3.94       2.24         b) Lease Payments       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.72       5.56       68.932			•	•						
11. Custom Work       36.51       41.22       1.55       1.67         12. Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       38.77       50.64       1.65       2.05         14. Unpaid Labour       24.50       20.70       1.04       0.84         Variable Costs       682.47       655.88       28.97       26.53         (C) 1. Cash/ Share Land Rent       46.46       45.07       1.97       1.82         2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.29       0.92         3. Equipment and Building: a) Depreciation       92.92       55.46       3.94       2.24         b) Lease Payments       0.00       0.00       0.00       0.00         4. Paid Capital Interest       17.02       14.29       0.72       5.56         Capital Costs       (B+C-B14-C3a)       751.91       717.23       31.91       33.99         (E)       Total Production Costs       (B+C)       869.32       793.38       36.90       37.07         Gross Margin       (A-D)       521.72       613.31       22.14       19.82         Return to Unpaid Labour       (A-E+B14)       428.80       557.86										
12. Operating Interest Paid       11.89       0.89       0.50       0.04         13. Paid Labour       38.77       50.64       1.65       2.05         14. Unpaid Labour       24.50       20.70       1.04       0.84         Variable Costs       682.47       655.88       28.97       26.53         (C) 1. Cash/Share Land Rent       46.46       45.07       1.97       1.82         2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.29       0.92         3. Equipment and Building: a) Depreciation       92.92       55.46       3.94       2.24         b) Lease Payments       0.00       0.00       0.00       0.00         4. Paid Capital Interest       17.02       14.29       0.72       5.56         Capital Costs       (B+C-B14-C3a)       751.91       717.23       31.91       33.99         (E)       Total Production Costs       (B+C)       869.32       793.38       36.90       37.07         Gross Margin       (A-D)       521.72       613.31       22.14       19.82         Return to Unpaid Labour       (A-E+B14)       428.80       557.86       18.20       17.58         Return to Equity       (A-E)       404.31<				scellaneous						
13. Paid Labour       38.77       50.64       1.65       2.05         14. Unpaid Labour       24.50       20.70       1.04       0.84         Variable Costs       682.47       655.88       28.97       26.53         (C) 1. Cash/ Share Land Rent       46.46       45.07       1.97       1.82         2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.29       0.92         3. Equipment and Building: a) Depreciation       92.92       55.46       3.94       2.24         b) Lease Payments       0.00       0.00       0.00       0.00       0.00       0.00         4. Paid Capital Interest       17.02       14.29       0.72       5.56         Capital Costs       (B+C-B14-C3a)       751.91       717.23       31.91       33.99         (E)       Total Production Costs       (B+C)       869.32       793.38       36.90       37.07         Gross Margin       (A-D)       521.72       613.31       22.14       19.82         Return to Unpaid Labour       (A-E)       428.80       557.86       18.20       17.58         Return to Equity       (A-E)       404.31       537.16       17.16       16.74				roct Daid						
14. Unpaid Labour       24.50       20.70       1.04       0.84         Variable Costs       682.47       655.88       28.97       26.53         (C) 1. Cash/ Share Land Rent       46.46       45.07       1.97       1.82         2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.29       0.92         3. Equipment and Building: a) Depreciation       92.92       55.46       3.94       2.24         b) Lease Payments       0.00       0.00       0.00       0.00         4. Paid Capital Interest       17.02       14.29       0.72       5.56         Capital Costs       (B+C-B14-C3a)       751.91       717.23       31.91       33.99         (E)       Total Production Costs       (B+C)       869.32       793.38       36.90       37.07         Gross Margin       (A-D)       521.72       613.31       22.14       19.82         Return to Unpaid Labour       (A-E+B14)       428.80       557.86       18.20       17.58         Return to Equity       (A-E)       404.31       537.16       17.16       16.74         Investment       Buildings       240.19       149.57       33.82       17.65       33.82         Total (incl				iest raiu						
Variable Costs         682.47         655.88         28.97         26.53           (C) 1. Cash/ Share Land Rent 2. Taxes, Water Rates, License & Ins. 3. Equipment and Building: a) Depreciation b) Lease Payments         30.45         22.68         1.29         0.92           3. Equipment and Building: a) Depreciation b) Lease Payments         0.00         0.00         0.00         0.00         0.00           4. Paid Capital Interest         17.02         14.29         0.72         5.56           Capital Costs         (B+C-B14-C3a)         751.91         717.23         31.91         33.99           (E)         Total Production Costs         (B+C)         869.32         793.38         36.90         37.07           Gross Margin         (A-D)         521.72         613.31         22.14         19.82           Return to Unpaid Labour         (A-E+H14)         428.80         557.86         18.20         17.58           Return to Equity         (A-E)         404.31         537.16         17.16         16.74           Investment Buildings         240.19         149.57           Machinery         678.22         509.16         17.16         16.74           Machinery           Management         4871.06         4873.67 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>										
(C) 1. Cash/ Share Land Rent       46.46       45.07       1.97       1.82         2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.29       0.92         3. Equipment and Building: a) Depreciation       92.92       55.46       3.94       2.24         b) Lease Payments       0.00       0.00       0.00       0.00       0.00         4. Paid Capital Interest       17.02       14.29       0.72       5.56         Capital Costs       (B+C-B14-C3a)       751.91       717.23       31.91       33.99         (E)       Total Production Costs       (B+C)       869.32       793.38       36.90       37.07         Gross Margin       (A-D)       521.72       613.31       22.14       19.82         Return to Unpaid Labour       (A-E+B14)       428.80       557.86       18.20       17.58         Return to Equity       (A-E)       404.31       537.16       17.16       16.74         Investment         Buildings       240.19       149.57       33.82         Total Productionery       678.22       509.16       17.16       16.74         Machinery         Buildings       240.19       149.57       33.82<		14								
2. Taxes, Water Rates, License & Ins.       30.45       22.68       1.29       0.92         3. Equipment and Building: a) Depreciation       92.92       55.46       3.94       2.24         b) Lease Payments       0.00       0.00       0.00       0.00         4. Paid Capital Interest       17.02       14.29       0.72       5.56         Capital Costs       186.84       137.50       7.93       10.54         (D) Cash Costs       (B+C-B14-C3a)       751.91       717.23       31.91       33.99         (E) Total Production Costs       (B+C)       869.32       793.38       36.90       37.07         Gross Margin       (A-D)       521.72       613.31       22.14       19.82         Return to Unpaid Labour       (A-E+B14)       428.80       557.86       18.20       17.58         Return to Equity       (A-E)       404.31       537.16       17.16       16.74         Investment         Buildings       240.19       149.57         Machinery       678.22       509.16       17.16       16.74         Management         Average Yield       (Tonne/acre)       23.56       24.72										
3. Equipment and Building: a) Depreciation       92.92       55.46       3.94       2.24         b) Lease Payments       0.00       0.00       0.00       0.00         4. Paid Capital Interest       17.02       14.29       0.72       5.56         Capital Costs       186.84       137.50       7.93       10.54         (D) Cash Costs       (B+C-B14-C3a)       751.91       717.23       31.91       33.99         (E) Total Production Costs       (B+C)       869.32       793.38       36.90       37.07         Gross Margin       (A-D)       521.72       613.31       22.14       19.82         Return to Unpaid Labour       (A-E+B14)       428.80       557.86       18.20       17.58         Return to Equity       (A-E)       404.31       537.16       17.16       16.74         Investment         Buildings       240.19       149.57         Machinery       678.22       509.16       17.16       16.74         Management         Average Yield       (Tonne/acre)       23.56       24.72	(C)	1.	Cash/ Share L	and Rent		46.46	45.07	1.97	1.82	
b) Lease Payments       0.00       0.00       0.00       0.00         4. Paid Capital Interest       17.02       14.29       0.72       5.56         Capital Costs       186.84       137.50       7.93       10.54         (D) Cash Costs       (B+C-B14-C3a)       751.91       717.23       31.91       33.99         (E) Total Production Costs       (B+C)       869.32       793.38       36.90       37.07         Gross Margin       (A-D)       521.72       613.31       22.14       19.82         Return to Unpaid Labour       (A-E+B14)       428.80       557.86       18.20       17.58         Return to Equity       (A-E)       404.31       537.16       17.16       16.74         Investment         Buildings       240.19       149.57         Machinery       678.22       509.16       17.16       16.74         Management         Average Yield       (Tonne/acre)       23.56       24.72		2.	Taxes, Water I	Rates, License	& Ins.	30.45	22.68	1.29	0.92	
4. Paid Capital Interest       17.02       14.29       0.72       5.56         Capital Costs       186.84       137.50       7.93       10.54         (D)       Cash Costs       (B+C-B14-C3a)       751.91       717.23       31.91       33.99         (E)       Total Production Costs       (B+C)       869.32       793.38       36.90       37.07         Gross Margin       (A-D)       521.72       613.31       22.14       19.82         Return to Unpaid Labour       (A-E+B14)       428.80       557.86       18.20       17.58         Return to Investment       (A-E+C4)       421.33       551.45       17.88       22.30         Return to Equity       (A-E)       404.31       537.16       17.16       16.74         Investment         Buildings       240.19       149.57         Machinery       678.22       509.16       17.16       16.74         Management         Average Yield       (Tonne/acre)       23.56       24.72		3.	Equipment and	d Building: a)	Depreciation	92.92	55.46	3.94	2.24	
Capital Costs         186.84         137.50         7.93         10.54           (D)         Cash Costs         (B+C-B14-C3a)         751.91         717.23         31.91         33.99           (E)         Total Production Costs         (B+C)         869.32         793.38         36.90         37.07           Gross Margin         (A-D)         521.72         613.31         22.14         19.82           Return to Unpaid Labour         (A-E+B14)         428.80         557.86         18.20         17.58           Return to Investment         (A-E+C4)         421.33         551.45         17.88         22.30           Return to Equity         (A-E)         404.31         537.16         17.16         16.74           Investment           Buildings         240.19         149.57           Machinery         678.22         509.16           Irrigation Machinery         247.05         33.82           Total (incl. Land)         4871.06         4873.67           Management         Average Yield         (Tonne/acre)         23.56         24.72				b)	Lease Payments	0.00	0.00	0.00	0.00	
(D)       Cash Costs       (B+C-B14-C3a)       751.91       717.23       31.91       33.99         (E)       Total Production Costs       (B+C)       869.32       793.38       36.90       37.07         Gross Margin       (A-D)       521.72       613.31       22.14       19.82         Return to Unpaid Labour       (A-E+B14)       428.80       557.86       18.20       17.58         Return to Investment       (A-E+C4)       421.33       551.45       17.88       22.30         Return to Equity       (A-E)       404.31       537.16       17.16       16.74         Investment         Buildings       240.19       149.57         Machinery       678.22       509.16         Irrigation Machinery       247.05       33.82         Total (incl. Land)       4871.06       4873.67         Management       Average Yield       (Tonne/acre)       23.56       24.72		4.	Paid Capital In	terest		17.02	14.29	0.72	5.56	
(E)       Total Production Costs       (B+C)       869.32       793.38       36.90       37.07         Gross Margin       (A-D)       521.72       613.31       22.14       19.82         Return to Unpaid Labour       (A-E+B14)       428.80       557.86       18.20       17.58         Return to Investment       (A-E+C4)       421.33       551.45       17.88       22.30         Return to Equity       (A-E)       404.31       537.16       17.16       16.74         Investment         Buildings       240.19       149.57         Machinery       678.22       509.16         Irrigation Machinery       247.05       33.82         Total (incl. Land)       4871.06       4873.67         Management       23.56       24.72			Capital Costs			186.84	137.50	7.93	10.54	
Gross Margin         (A-D)         521.72         613.31         22.14         19.82           Return to Unpaid Labour         (A-E+B14)         428.80         557.86         18.20         17.58           Return to Investment         (A-E+C4)         421.33         551.45         17.88         22.30           Return to Equity         (A-E)         404.31         537.16         17.16         16.74           Investment         Euildings         240.19         149.57         149.57         149.57         149.57         149.57         149.57         149.57         140.10         149.57         140.10         149.57         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10         140.10 <th 14<="" th=""><th></th><th></th><th></th><th></th><th>•</th><th></th><th></th><th></th><th></th></th>	<th></th> <th></th> <th></th> <th></th> <th>•</th> <th></th> <th></th> <th></th> <th></th>					•				
Return to Unpaid Labour       (A-E+B14)       428.80       557.86       18.20       17.58         Return to Investment       (A-E+C4)       421.33       551.45       17.88       22.30         Return to Equity       (A-E)       404.31       537.16       17.16       16.74         Investment         Buildings       240.19       149.57         Machinery       678.22       509.16         Irrigation Machinery       247.05       33.82         Total (incl. Land)       4871.06       4873.67         Management       23.56       24.72	<u>(E)</u>									
Return to Investment Return to Equity         (A-E+C4) (A-E)         421.33 404.31         551.45 537.16         17.88 17.16         22.30 16.74           Investment Buildings         240.19         149.57           Machinery         678.22         509.16           Irrigation Machinery         247.05         33.82           Total (incl. Land)         4871.06         4873.67           Management Average Yield         (Tonne/acre)         23.56         24.72					• •					
Return to Equity         (A-E)         404.31         537.16         17.16         16.74           Investment         Buildings         240.19         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         149.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57         140.57 <t< th=""><th></th><th></th><th></th><th></th><th>. ,</th><th></th><th></th><th></th><th></th></t<>					. ,					
Investment           Buildings         240.19         149.57           Machinery         678.22         509.16           Irrigation Machinery         247.05         33.82           Total (incl. Land)         4871.06         4873.67           Management         Average Yield         (Tonne/acre)         23.56         24.72										
Buildings       240.19       149.57         Machinery       678.22       509.16         Irrigation Machinery       247.05       33.82         Total (incl. Land)       4871.06       4873.67         Management       23.56       24.72			Return to Equ	lity	(A-E)	404.31	537.16	17.16	16.74	
Buildings       240.19       149.57         Machinery       678.22       509.16         Irrigation Machinery       247.05       33.82         Total (incl. Land)       4871.06       4873.67         Management       23.56       24.72			Investment							
Machinery         678.22         509.16           Irrigation Machinery         247.05         33.82           Total (incl. Land)         4871.06         4873.67           Management Average Yield         23.56         24.72						240.19	149.57			
Irrigation Machinery         247.05         33.82           Total (incl. Land)         4871.06         4873.67           Management Average Yield         23.56         24.72			-							
Total (incl. Land)         4871.06         4873.67           Management         23.56         24.72			•	ninerv						
Average Yield (Tonne/acre) 23.56 24.72										
			Management							
Expected Market Price (\$/Tonne) 53.52 53.52			Average Yield	(T	onne/acre)	23.56	24.72			
			Expected Mark	ket Price (\$/	Tonne)	53.52	53.52			

AgriProfit\$

			<sup>-</sup> Beets - rrigated	Own				
		Unit: Tonne	-		\$/Ad	re	\$/Ton	ne
			-		Average	Top 1/3	Average	Top 1/3
(A)	1.	Crop Sales			1279.84	1319.29	53.52	53.52
. ,		Crop Insurance Rec	eipts		7.74	0.00	0.32	0.00
	3.	Other Receipts	-		3.97	10.37	0.17	0.42
		Gross Receipts			1291.55	1329.65	54.01	53.94
(B)		Cost Items						
(-)	1.	Seed			130.62	130.62	5.46	5.30
	2.	Fertilizer			94.58	95.47	3.95	3.87
	3.				12.17	12.23	0.51	0.50
	4.	Hail/Crop Insurance	Premiun	n	37.37	34.26	1.56	1.39
	5.				95.03	85.74	3.97	3.48
	6.	-	5		73.29	73.25	3.06	2.97
	7.		ectricit		39.67	33.86	1.66	1.37
	8.	Repairs - Machinery	-		55.75	49.66	2.33	2.01
		Repairs - Buildings			5.28	3.65	0.22	0.15
		. Utilities and Miscella	aneous		37.44	38.38	1.57	1.56
		. Custom Work			29.49	37.27	1.23	1.51
	12	. Operating Interest P	aid		15.08	1.24	0.63	0.05
		. Paid Labour			41.08	59.16	1.72	2.40
		. Unpaid Labour			23.78	18.11	0.99	0.73
		Variable Costs			690.63	672.91	28.88	27.30
(C)	1.	Cash/ Share Land R	Rent		0.00	0.00	0.00	0.00
(-)		Taxes, Water Rates		e & Ins.	39.24	30.11	1.64	1.22
		Equipment and Build		Depreciation	107.47	48.24	4.49	1.96
		- 1		Lease Payments	0.00	0.00	0.00	0.00
	4.	Paid Capital Interest	,	20000 . ajoo	22.27	19.98	0.93	3.99
		Capital Costs	•		168.98	98.33	7.07	7.17
(D)		Cash Costs		(B+C-B14-C3a)	728.36	704.89	30.46	31.77
(E)		Total Production C	osts	(B+C)	859.61	771.24	35.94	34.46
<u> </u>		Gross Margin		(A-D)	563.18	624.76	23.55	22.16
		Return to Unpaid L	abour	(A-E+B14)	455.72	576.52	19.06	20.21
		Return to Investme		(A-E+C4)	454.21	578.39	18.99	23.46
		Return to Equity		(A-E)	431.94	558.41	18.06	19.47
		Investment			070.04	400.00		
		Buildings			272.21	133.30		
		Machinery			728.26	415.29		
		Irrigation Machinery Total (incl. Land)			344.83 6517.43	47.29 6442.68		
					-			
		Management			00.00	<u> </u>		
		Average Yield		onne/acre)	23.92	24.65		
		Expected Market Pr	ice (\$	/Tonne)	53.52	53.52		

AgriProfit\$

		Crop: Sugar Beets - Soil Zone: All - Irrigated					
		Unit: Tonne		\$/Ac	ro	\$/Ton	no
				Average	Top 1/3	Average	Top 1/3
(A)	1.	Crop Sales		1213.09		53.52	
	2.	Crop Insurance Receipts		15.26		0.67	
	3.	Other Receipts		0.00		0.00	
		Gross Receipts		1228.35	0.00	54.19	0.00
(B)		Cost Items					
	1.	Seed		130.62		5.76	
	2.			89.64		3.95	
	3.			9.92		0.44	
	4.		n	51.67		2.28	
	5.	Trucking and Marketing		73.33		3.23	
	6.	Fuel		52.32		2.31	
	7.	J	/	28.70		1.27	
		Repairs - Machinery		50.24		2.22	
		Repairs - Buildings		1.53		0.07	
		. Utilities and Miscellaneous		56.58		2.50	
		. Custom Work		54.25		2.39	
		. Operating Interest Paid		3.84		0.17	
		. Paid Labour		32.92		1.45	
	14	. Unpaid Labour		26.30		1.16	
		Variable Costs		661.86	0.00	29.20	0.00
• •		Cash/ Share Land Rent		163.85		7.23	
		Taxes, Water Rates, License		8.23		0.36	
	3.		) Depreciation	56.15		2.48	
			) Lease Payments	0.00		0.00	
	4.	Paid Capital Interest		3.76	<u> </u>	0.17	
		Capital Costs		231.99	0.00	10.23	0.00
(D)		Cash Costs	(B+C-B14-C3a)	811.40		35.80	
<u>(E)</u>		Total Production Costs	(B+C)	893.85	<u> </u>	39.43	
		Gross Margin	(A-D)	416.95		18.39	
		Return to Unpaid Labour	(A-E+B14)	360.80		15.92	
		Return to Investment	(A-E+C4)	338.26		14.92	
		Return to Equity	(A-E)	334.50		14.76	
		Investment					
		Buildings		159.29			
		Machinery		551.79			
		Irrigation Machinery		0.00			
		Total (incl. Land)		711.08			
		Management					
		-	Fonne/acre)	22.67			
			S/Tonne)	53.52			
			,	00.02			

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#### I INCOME

- A Imputed Value of Production total of estimated yields/acre X estimated final prices
- **B** Crop Insurance Receipts added regardless of when payment is received
- C Miscellaneous Receipts such as patronage dividends or input rebates
- **D** Government Program Receipts allocated to all cropped acres equally
- E Straw/Aftermath Grazing Revenue value of straw + imputed value of grazing

#### II EXPENSES

- A Crop Specific Inputs allocated by producer to each crop as documented on the survey form
  - 1. Seed
  - 2. Fertilizer
  - 3. Chemical
  - 4. Hail and Crop Insurance
  - 5. Custom Work and Specialized Labour
  - 6. Land Rent cash rent or crop share (converted to a cash basis)
- **B** Allocated Crop Inputs allocation ratios based on research from AAFRD
  - **1. Irrigation to Dryland Ratio** allocated to crops at a 3:1 ratio
  - 2. Trucking and Marketing allocated to specific cropping acres by producer
  - **3. Fuel** Summerfallow allocation of 0.3:1 compared to crop acres; Sugar beets allocation of 2.96:1 compared to other irrigated crop acres
  - 4. Irrigation Fuel allocation based on total pumping hours for each crop
  - 5. Machinery Repairs allocated equally to all acres except summerfallow (0.3:1) and special crops (as specified by producer)
  - 6. Building Repairs allocated to all acres equally except for special crops buildings
  - 7. **Operating Interest** interest paid on operating loans allocated equally
  - 8. Paid Labour based on allocations between crops as specified by producer
  - 9. Unpaid and Operator Labour operator -\$10/hour, other unpaid labour - \$7.50/hour
  - **10.** Land Taxes allocated equally to all owned cropped acres
  - **11. Water Rates** allocated equally to all owned irrigated acres
  - **12.** Water Rates allocated equally to all owned irrigated acres
  - **13. Equipment Depreciation** imputed at 8.5% for power equipment, 11% for non-power, based on current market value

- **14. Insurance and Licenses** allocated to all cropped acres equally
- **15. Building Depreciation** imputed at 5% on the current market value
- **16. Paid Capital Interest** allocated to all owned cropped acres equally except summerfallow (0.25:1)

#### III CAPITAL INVESTMENT

- A Land producer estimate of bare land value for both irrigated and dryland owned acreage
- **B** Buildings allocated equally to all acreage except special crops buildings (allocated to the crop)
- **C** Equipment
  - **1.** General Use allocated to all acres equally, except summerfallow (0.3:1)
  - 2. Crop Specific allocated by producer to each crop based on percentage of use
  - **3.** Irrigation allocated according to pumping hours as specified by producer

#### IV SUMMARY CALCULATION

- A Gross Return = imputed value of production + crop insurance receipts + miscellaneous receipts + government program payments + straw/grazing revenue
- **B** Variable Costs = seed + fertilizer + chemicals + crop insurance + trucking and marketing + fuel + machinery and building repairs + utilities + miscellaneous overhead + custom work + operating interest + paid and unpaid labour
- C Total Capital Costs = land rent + land taxes + water rates + insurance + depreciation + paid capital interest
- **D** Cash Costs = variable costs + capital costs unpaid labour depreciation
- **E** Total Production Costs = variable costs + total capital costs
- **F Gross Margin** (returns left to cover total capital costs and operator equity) = gross return total cash costs
- G Return to Unpaid Labour (funds remaining after all expenses have been paid except unpaid labour)
   = gross return total production costs + unpaid labour
- H Return to Investment (shows the operation's ability to earn a return on its total assets) = gross return total production costs + paid capital interest
- I Return to Equity (amount remaining from operations used to provide a return to individual or shareholder equity) = gross return – total production costs