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Cost and Return Profiles for Selected Crops, 2006 Irrigated Crops





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2006 Irrigated Soil Zones

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OVERVIEW

2006 Irrigated Soil Zones

The AgriProfit\$ Cost and Return study is a provincial overview of costs and returns for various annual field crops and forages grown throughout the province. Participating farmers are interviewed throughout the winter and the Alberta Agriculture and Rural Development (ARD), Economics Unit compiles all the information into this summary package. This detailed and world-class database is used for extension and research purposes.

In this package you will find a brief summary of various field crops and forages grown in the irrigated soil zones. Where numbers warrant, there are two levels of analysis – the group average and the top third. The top third analysis is based on the top third of fields that have the highest return to equity.

The map on the upper right illustrates the Irrigated Soil Zone areas in Alberta. Please note that farms highlighted within this zone may contain characteristics of neighbouring soil zones, however, this is the grouping method used for this study.

The map on the lower right highlights the locations of participating farmers for the AgriProfits program season, for January 2006 to December 2006.

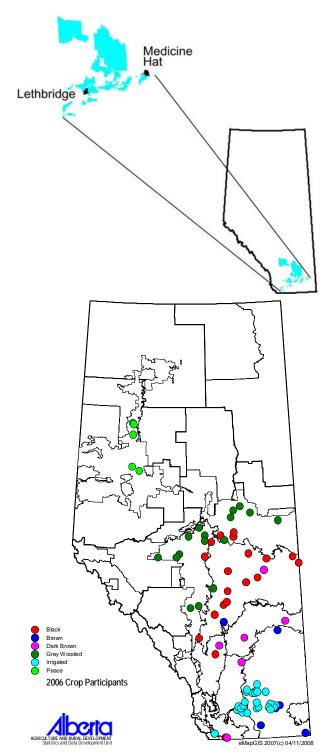
For questions regarding this document please contact: Sharon Faye – Special Crops Analyst Economics Unit, Agriculture and Rural Development Phone: (780) 422-5326 Fax: (780) 427-5220 Email: sharon.faye@gov.ab.ca

OR

Alberta Ag-Info Centre 310-FARM

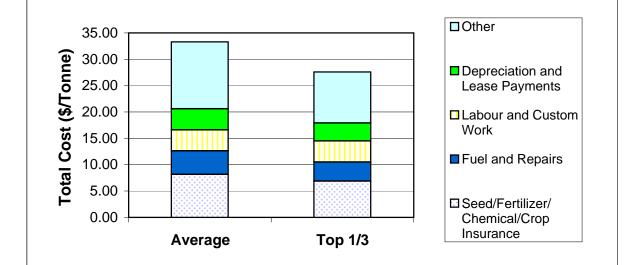
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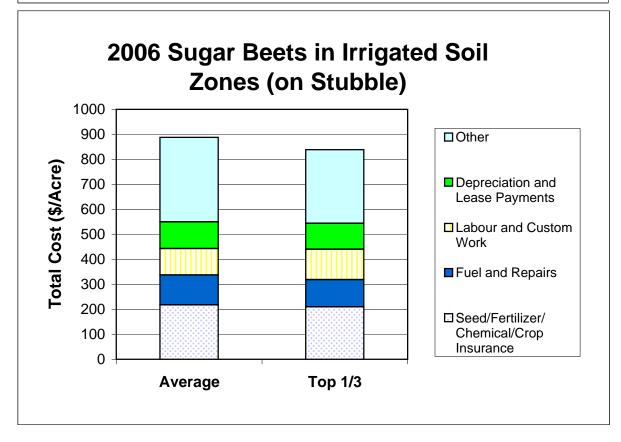
Dale Kaliel, Pauline Van Biert, Shukun Guan, Guangzhi Liu, Nabi Chaudhary, Karla Bergstrom, Interviewers and Participants.





2006 Sugar Beets in Irrigated Soil Zones (on Stubble)





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		Crop: Feed Barley - All Soil Zone: - Irrigated - Stubble					_	
		Unit:	Bushel		\$/Ac	re	\$/Bus	hel
					Average	Top 1/3	Average	Top 1/3
(A)	1.	Crop Sales			460.71		3.59	
()		Crop Insuran	ce Receipts		0.00		0.00	
		Other Receip			57.76		0.45	
		Gross Recei	pts		518.47	0.00	4.04	0.00
(B)		Cost Items						
(5)	1	Seed			10.10		0.08	
	2.				55.05		0.43	
	3.				25.12		0.20	
	4.		urance Premiu	n	8.34		0.06	
	5.	Trucking and			59.65		0.46	
	6.	-	Markoung		23.74		0.18	
	7.		I and Electricity	,	6.78		0.05	
		Repairs - Mac			21.47		0.17	
	9.	•			2.80		0.02	
		. Utilities and M			20.69		0.16	
		. Custom Work			17.40		0.14	
		. Operating Inte			3.75		0.03	
		. Paid Labour			3.63		0.03	
		. Unpaid Labou	ır		21.79		0.17	
		Variable Cos			280.30	0.00	2.18	0.00
							•	
(C)	1.	Cash/ Share	Land Rent		84.06		0.65	
• • •	2.	Taxes, Water	Rates, License	e & Ins.	18.39		0.14	
			nd Building: a		72.27		0.56	
				Lease Payments	1.35		0.01	
	4.	Paid Capital I		, <u>,</u>	16.39		0.13	
		Capital Cost			192.46	0.00	1.50	0.00
(D)		Cash Costs		(B+C-B14-C3a)	378.71		2.95	
		Total Produc	tion Costs	(B+C-B14-C3a) (B+C)	472.77		3.68	
<u>(E)</u>		Gross Margi		(A-D)	139.76		1.09	
		-	n Ipaid Labour	(A-D) (A-E+B14)	67.49		0.53	
		Return to Inv	-	(A-E+C4)	62.10		0.48	
		Return to Eq		(A-E+C4) (A-E)	45.70		0.36	
		Return to Eq	uny	(A-E)	45.70		0.30	
		Investment						
		Buildings			127.60			
		Machinery			619.03			
		Irrigation Mac	hinery		131.57			
		Total (incl.			1851.96			
		Management	t					
		Average Yield		Bushel/acre)	128.34			
		Expected Mar		S/Bushel)	3.59			
			()		5.00			

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Unit: Pound \$/Acre Average Top 1/3 (A) 1. Crop Sales 489.36 2. Crop Insurance Receipts 0.00 3. Other Receipts 0.00 Gross Receipts 489.36 0.00 Gross Receipts 489.36 0.00 (B) Cost Items 1. Seed 42.28 2. Fertilizer 34.75 3. Chemical 64.20 4. Hail/Crop Insurance Premium 12.28 5. Trucking and Marketing 13.84 6. Fuel 29.26 7. Irrigation Fuel and Electricity 8.50 8. Repairs - Machinery 15.94 9. Repairs - Buildings 0.00 10. Utilities and Miscellaneous 4.77 11. Custom Work 0.00 12. Operating Interest Paid 10.03 13. Paid Labour 17.31	\$/Pot Average 0.25 0.00 0.00 0.25 0.02 0.02 0.03 0.01 0.01 0.01 0.01 0.01 0.01 0.01	und Top 1/3 0.00
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b) Lease Payments 52.55 <u>4. Paid Capital Interest</u> 7.28 Capital Costs 150.09 0.00	0.00	
4. Paid Capital Interest 7.28 Capital Costs 150.09 0.00	0.01	
Capital Costs 150.09 0.00	0.03	
	0.00	0.00
(D) Cash Costs (B+C-B14-C3a) 387.48	0.08	0.00
	0.20	
(E) Total Production Costs (B+C) 412.47	0.21	
Gross Margin (A-D) 101.89	0.05	
Return to Unpaid Labour (A-E+B14) 86.11	0.04	
Return to Investment (A-E+C4) 84.17	0.04	
Return to Equity (A-E) 76.90	0.04	
Buildings 10.86		
Machinery 299.35		
Irrigation Machinery 0.00 - Total (incl. Land) 310.21 -		
Management		
Average Yield (Pound/acre) 1973.59		
Expected Market Price (\$/Pound) 0.25		

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		Crop: Soil Zone:	Sugar Beets - - Irrigated - Si					
		Unit:	Tonne		\$/Ac	cre	\$/Ton	ne
		•			Average	Top 1/3	Average	Top 1/3
(A)	1.	Crop Sales			1084.44	1241.36	40.66	40.84
	2.	Crop Insuran	ce Receipts		29.03	24.43	1.09	0.80
	3.	Other Receip	ots		5.53	4.92	0.21	0.16
		Gross Recei	pts		1119.01	1270.71	41.95	41.81
(B)		Cost Items						
(0)	1	Seed			48.26	49.55	1.81	1.63
	2.				54.90	62.36	2.06	2.05
	3.	-			88.10	71.30	3.30	2.35
	4.		urance Premiun	n	26.53	26.67	0.99	0.88
	5.	Trucking and		-	121.68	135.13	4.56	4.45
	6.	-	5		63.37	58.31	2.38	1.92
	7.		and Electricity		39.79	32.22	1.49	1.06
	8.	Repairs - Ma	•		51.19	42.76	1.92	1.41
		Repairs - Bui			4.89	7.87	0.18	0.26
		. Utilities and M	•		26.62	25.92	1.00	0.85
	11	. Custom Work	<		12.96	18.27	0.49	0.60
	12	. Operating Int	erest Paid		7.55	2.95	0.28	0.10
	13	. Paid Labour			43.62	47.45	1.64	1.56
	14	. Unpaid Labo	ur		49.23	56.23	1.85	1.85
		Variable Cos	sts		638.68	636.99	23.94	20.96
(C)	1.	Cash/ Share	Land Rent		100.36	61.39	3.76	2.02
	2.	Taxes, Water	r Rates, License	& Ins.	17.72	20.16	0.66	0.66
	3.	Equipment ar		Depreciation	89.39	101.60	3.35	3.34
			,	Lease Payments	17.31	1.81	0.65	0.06
	4.	Paid Capital I			24.49	16.95	0.92	0.56
		Capital Cost	S		249.28	201.90	9.35	6.64
(D)		Cash Costs		(B+C-B14-C3a)	749.33	681.07	28.09	22.41
<u>(E)</u>		Total Produc		(B+C)	887.96	838.89	33.29	27.60
		Gross Margi		(A-D)	369.68	589.65	13.86	19.40
			npaid Labour	(A-E+B14)	280.29	488.05	10.51	16.06
		Return to In		(A-E+C4)	255.55	448.77	9.58	14.77
		Return to Eq	quity	(A-E)	231.05	431.82	8.66	14.21
		Investment						
		Buildings			128.77	187.25		
		Machinery			681.22	783.99		
		Irrigation Mad	chinery		264.07	245.05		
		Total (incl.			2240.17	2818.54		
		Managemen	t					
		Average Yiel		onne/acre)	26.67	30.39		
		Expected Ma	•	/Tonne)	40.66	40.84		
				-				

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		Crop: Soil Zone:	Sugar Beets - - Irrigated - S					
		Unit:	Tonne		\$/Ac	;re	\$/Ton	ne
					Average	Top 1/3	Average	Top 1/3
(A)	1.	Crop Sales			1123.73	1224.17	40.81	41.22
	2.	Crop Insuran	ce Receipts		16.17	15.30	0.59	0.52
	3.	Other Receip	ots		4.10	0.85	0.15	0.03
		Gross Recei	ipts		1144.00	1240.31	41.54	41.76
(B)		Cost Items				_		
	1.	Seed			49.12	51.88	1.78	1.75
	2.	Fertilizer			61.49	57.01	2.23	1.92
	3.	Chemical			80.70	64.76	2.93	2.18
	4.	Hail/Crop Ins	urance Premiu	n	27.37	24.01	0.99	0.81
	5.	Trucking and	Marketing		123.53	142.61	4.49	4.80
	6.	Fuel			67.59	52.88	2.45	1.78
	7.	Irrigation Fue	and Electricity	1	43.12	22.98	1.57	0.77
	8.	Repairs - Ma	chinery		60.13	32.15	2.18	1.08
	9.	Repairs - Bui	ildings		7.25	6.65	0.26	0.22
	10	. Utilities and M	Miscellaneous		23.94	19.63	0.87	0.66
	11	. Custom Worl	k		12.68	23.73	0.46	0.80
	12	. Operating Int	erest Paid		8.23	2.19	0.30	0.07
	13	. Paid Labour			46.82	40.04	1.70	1.35
	14	. Unpaid Labo	ur		50.75	54.04	1.84	1.82
		Variable Cos	sts		662.72	594.57	24.07	20.02
(C)	1.	Cash/ Share	Land Rent		0.00	0.00	0.00	0.00
	2.	Taxes, Water	r Rates, License	e & Ins.	34.38	27.98	1.25	0.94
	3.	Equipment a	nd Building: a) Depreciation	133.17	103.88	4.84	3.50
			b) Lease Payments	6.32	0.00	0.23	0.00
	4.	Paid Capital	Interest		45.80	29.39	1.66	0.99
		Capital Cost	s		219.67	161.25	7.98	5.43
(D)		Cash Costs		(B+C-B14-C3a)	698.47	597.89	25.36	20.13
<u>(E)</u>		Total Produc		(B+C)	882.39	755.81	32.04	25.45
		Gross Marg		(A-D)	445.53	642.43	16.18	21.63
			npaid Labour	(A-E+B14)	312.36	538.54	11.34	18.13
		Return to In		(A-E+C4)	307.41	513.89	11.16	17.30
		Return to Ed	quity	(A-E)	261.61	484.50	9.50	16.31
		Investment						
		Buildings			166.13	261.46		
		Machinery			814.93	682.18		
		Irrigation Mac	chinerv		601.86	347.85		
		Total (incl.			4240.71	3851.27		
		Managemen	t					
		Average Yiel		Tonne/acre)	27.54	29.70		
		Expected Ma	```	S/Tonne)	40.81	41.22		
			(4	,				

AgriProfit\$

		Crop: Soil Zone:	Sugar Beets - - Irrigated - St					
		Unit:	Tonne		\$/Ad	;re	\$/Ton	ne
		•			Average	Top 1/3	Average	Top 1/3
(A)	1.	Crop Sales			1053.73	1217.39	40.53	40.50
. ,	2.		ce Receipts		39.09	49.18	1.50	1.64
	3.	Other Receip	ts		6.65	13.11	0.26	0.44
		Gross Recei	pts		1099.47	1279.68	42.29	42.57
(B)		Cost Items						
• • •	1.	Seed			47.59	47.30	1.83	1.57
	2.	Fertilizer			49.75	62.54	1.91	2.08
	3.	Chemical			93.88	81.07	3.61	2.70
	4.	Hail/Crop Ins	urance Premium	ı	25.87	28.00	1.00	0.93
	5.	Trucking and	Marketing		120.24	126.98	4.62	4.22
	6.	-	C C		60.06	55.29	2.31	1.84
	7.	Irrigation Fue	l and Electricity		37.19	42.63	1.43	1.42
	8.	Repairs - Ma			44.20	35.05	1.70	1.17
	9.	Repairs - Bui	Idings		3.03	1.86	0.12	0.06
		. Utilities and M			28.72	33.23	1.10	1.11
	11	. Custom Work	κ		13.18	18.74	0.51	0.62
	12	. Operating Int	erest Paid		7.02	4.37	0.27	0.15
		. Paid Labour			41.11	48.31	1.58	1.61
	14	. Unpaid Labo	ur		48.05	70.17	1.85	2.33
		Variable Cos			619.88	655.55	23.84	21.81
(C)	1.	Cash/ Share	Land Rent		178.82	166.92	6.88	5.55
. ,			Rates, License	& Ins.	4.69	5.04	0.18	0.17
	3.	Equipment ar	nd Building: a)	Depreciation	55.17	66.65	2.12	2.22
				Lease Payments	25.90	14.37	1.00	0.48
	4.	Paid Capital			7.84	2.25	0.30	0.07
		Capital Cost			272.42	255.23	10.48	8.49
(D)		Cash Costs		(B+C-B14-C3a)	789.09	773.96	30.35	25.75
(E)		Total Produc	ction Costs	(B+C)	892.31	910.78	34.32	30.30
		Gross Margi	in	(A-D)	310.39	505.73	11.94	16.82
		Return to Ur	npaid Labour	(A-E+B14)	255.21	439.07	9.82	14.61
		Return to In	vestment	(A-E+C4)	215.00	371.15	8.27	12.35
		Return to Eq	luity	(A-E)	207.16	368.90	7.97	12.27
		Investment						
		Investment Buildings			99.56	108.43		
		Machinery			99.56 576.70	657.87		
		Irrigation Mac	hinen		0.00	0.00		
		Total (incl.	<i>i</i>		676.26	766.31		
		Managemen	•					
		Average Yiel		onne/acre)	26.00	30.06		
		Expected Ma	•	Tonne)	40.53	40.50		
					-0.00	-0.00		

AgriProfit\$

		Crop: Soil Zone:	Sugar Beets - Irrigated - Fa					
		Unit:	Tonne	mow	\$/Ac	ro	\$/Ton	no
		onnt.	10mme		Average	Top 1/3	Average	Top 1/3
(A)	1.	Crop Sales			1217.89		40.50	
	2.	•	ce Receipts		94.23		3.13	
	3.	Other Receip	•		35.51		1.18	
		Gross Recei	ipts		1347.63	0.00	44.81	0.00
(B)		Cost Items						
	1.	Seed			47.30		1.57	
	2.	Fertilizer			59.36		1.97	
	3.	Chemical			80.73		2.68	
	4.	Hail/Crop Ins	urance Premium	า	29.13		0.97	
	5.	Trucking and	Marketing		106.81		3.55	
	6.	Fuel			40.76		1.36	
	7.	Irrigation Fue	and Electricity		30.07		1.00	
	8.	Repairs - Ma	chinery		41.15		1.37	
	9.	Repairs - Bui	ildings		2.84		0.09	
	10	. Utilities and M	Miscellaneous		39.26		1.31	
	11	. Custom Worl	k		29.29		0.97	
	12	. Operating Int	erest Paid		3.12		0.10	
	13	. Paid Labour			53.13		1.77	
	14	. Unpaid Labo	ur		104.56		3.48	
		Variable Cos	sts		667.49	0.00	22.20	0.00
(C)	1.	Cash/ Share	Land Rent		105.08		3.49	
	2.	Taxes, Water	r Rates, License		18.76		0.62	
	3.	Equipment a	nd Building: a)	Depreciation	128.02		4.26	
				Lease Payments	8.70		0.29	
	4.	Paid Capital			22.92		0.76	
		Capital Cost	S		283.48	0.00	9.43	0.00
(D)		Cash Costs		(B+C-B14-C3a)	718.40		23.89	
<u>(E)</u>		Total Produc		(B+C)	950.97		31.62	
		Gross Marg		(A-D)	629.23		20.92	
			npaid Labour	(A-E+B14)	501.22		16.67	
		Return to In		(A-E+C4)	419.58		13.95	
		Return to Ec	quity	(A-E)	396.66		13.19	
		Investment						
		Buildings			126.17			
		Machinery			904.09			
		Irrigation Mac	chinery		441.33			
		Total (incl.			2585.53			
		Managemen	t					
		Average Yiel		onne/acre)	30.07			
		Expected Ma		Tonne)	40.50			
					-0.00			

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		Hay - All ted - Stubble				
	Unit: Tonne		\$/Ac	re	\$/Tor	ne
			Average	Top 1/3	Average	Top 1/3
(A) 1	1. Crop Sales		358.90		67.23	
2	2. Crop Insurance Rece	ipts	0.00		0.00	
3	3. Other Receipts		32.84		6.15	
	Gross Receipts		391.74	0.00	73.39	0.00
(B)	Cost Items			_		
1	1. Seed		2.54		0.48	
2	2. Fertilizer		8.11		1.52	
3	3. Chemical		1.47		0.28	
4	4. Hail/Crop Insurance F	Premium	0.00		0.00	
5	5. Trucking and Marketin	ng	1.01		0.19	
6	6. Fuel	-	34.84		6.53	
7	7. Irrigation Fuel and Ele	ectricity	19.13		3.58	
8	3. Repairs - Machinery		36.50		6.84	
9	9. Repairs - Buildings		1.48		0.28	
	10. Utilities and Miscellan	eous	27.53		5.16	
1	11. Custom Work		5.50		1.03	
1	12. Operating Interest Pa	id	21.02		3.94	
	13. Paid Labour		7.54		1.41	
1	14. Unpaid Labour		30.69		5.75	
	Variable Costs		197.37	0.00	36.97	0.00
(C) 1	1. Cash/ Share Land Re	ent	35.94		6.73	
2	2. Taxes, Water Rates,	License & Ins.	12.58		2.36	
3	3. Equipment and Buildi	ng: a) Depreciation	55.04		10.31	
		b) Lease Payments	1.30		0.24	
4	4. Paid Capital Interest		30.07		5.63	
	Capital Costs		134.93	0.00	25.28	0.00
(D)	Cash Costs	(B+C-B14-C3a)	246.57		46.19	
<u>(E)</u>	Total Production Co	sts (B+C)	332.30		62.25	
	Gross Margin	(A-D)	145.17		27.20	
	Return to Unpaid La	bour (A-E+B14)	90.13		16.88	
	Return to Investmen	nt (A-E+C4)	89.51		16.77	
	Return to Equity	(A-E)	59.44		11.14	
	Investment		00.07			
	Buildings		69.27			
	Machinery		397.19			
	Irrigation Machinery		149.78			
	Total (incl. Land)		1420.44			
	Management					
	Average Yield	(Tonne/acre)	5.34			
	Expected Market Pric	e (\$/Tonne)	67.23			

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Soil Zone: Unit:	- Irrigated - Si Tonne					
•			\$/Acı	re	\$/Ton	ne
			Average	Top 1/3	Average	Top 1/3
1. Crop Sales			99.60		61.78	
2. Crop Insura	ance Receipts		0.00		0.00	
3. Other Rece	ipts		48.12		29.85	
Gross Rec	eipts		147.72	0.00	91.63	0.00
Cost Items	5					
1. Seed			11.65		7.23	
2. Fertilizer			2.42		1.50	
3. Chemical			0.00		0.00	
4. Hail/Crop Ir	surance Premiun	า	0.00		0.00	
5. Trucking ar	nd Marketing		1.00		0.62	
6. Fuel			27.19		16.86	
7. Irrigation Fu	uel and Electricity		7.23		4.48	
8. Repairs - N	lachinery		36.77		22.81	
9. Repairs - B	uildings		0.00		0.00	
10. Utilities and	Miscellaneous		21.07		13.07	
11. Custom Wo	ork		0.00		0.00	
12. Operating I	nterest Paid		10.75		6.67	
13. Paid Labou	ır		5.04		3.13	
14. Unpaid Lab	our		30.43		18.88	
Variable C	osts		153.55	0.00	95.25	0.00
1. Cash/ Shar	e Land Rent		0.00		0.00	
2. Taxes, Wat	er Rates, License	& Ins.	20.61		12.78	
3. Equipment	and Building: a)	Depreciation	78.48		48.68	
	b)	Lease Payments	2.95		1.83	
4. Paid Capita	al Interest		41.10		25.49	
Capital Co	sts		143.14	0.00	88.79	0.00
		(B+C-B14-C3a)	187.78		116.48	
		1 1				
	-	· ·			· · · ·	
	•	· ·	· · · ·		· · · ·	
Return to I	Equity	(A-E)	(148.96)		(92.40)	
Invostmon	•					
	L		65 00			
-						
•	achinery					
			3583.39			
Manademe	int					
Manageme Average Yi		onne/acre)	1.61			
23 12345678911111 123	 Crop Insura Other Rece Gross Rec Cost Items Seed Fertilizer Chemical Hail/Crop In Trucking an Fuel Irrigation Fu Repairs - M Cost Items Cost Items Fuel Irrigation Fu Repairs - M Cashara - M Paid Labou Cash/ Shar Equipment Cash Cost Total Prod Gross Mar Return to I 	2. Crop Insurance Receipts 3. Other Receipts Gross Receipts Cost Items Seed Fertilizer Chemical Hail/Crop Insurance Premiun Trucking and Marketing Fuel Irrigation Fuel and Electricity Repairs - Machinery Repairs - Buildings Utilities and Miscellaneous Custom Work Operating Interest Paid Paid Labour Variable Costs Cash Costs Cash Costs Gross Margin Return to Unpaid Labour Return to Equity Investment Buildings	2. Crop Insurance Receipts 3. Other Receipts Gross Receipts Gross Receipts Cost Items Seed Fertilizer Chemical Hail/Crop Insurance Premium Trucking and Marketing Fuel Trucking and Marketing Fuel Ful Repairs - Machinery Repairs - Buildings Submitted Labour Variable Costs Cash / Share Land Rent Capital Interest Capital Costs Cash	2. Crop Insurance Receipts 0.00 3. Other Receipts 48.12 Gross Receipts 147.72 Cost Items 147.72 Cost Items 2.42 3. Chemical 0.00 4. Hail/Crop Insurance Premium 0.00 5. Fuel 27.19 7. Trucking and Marketing 1.00 6. Fuel 27.19 7. Irrigation Fuel and Electricity 7.23 8. Repairs - Machinery 36.77 9. Repairs - Buildings 0.00 10. Utilities and Miscellaneous 21.07 11. Custom Work 0.00 12. Operating Interest Paid 10.75 13. Paid Labour 5.04 14. Unpaid Labour 30.43 Variable Costs 153.55 1. Cash/ Share Land Rent 0.00 2. Taxes, Water Rates, License & Ins. 20.61 3. Equipment and Building: a) Depreciation 78.48 b) Lease Payments 2.95 4. Paid Capital Interest 41.10 Cash Costs (B+C-B14-C3a) 187.78 Total Production Costs (B+C) 296.69	2. Crop Insurance Receipts 0.00 3. Other Receipts 48.12 Gross Receipts 147.72 0.00 Cost Items 1. Seed 11.65 2. Fertilizer 2.42 3. Chemical 0.00 4. Hail/Crop Insurance Premium 0.00 5. Fuel 27.19 7. Irrigation Fuel and Electricity 7.23 7. Repairs - Machinery 36.77 9. Repairs - Buildings 0.00 10. Utilities and Miscellaneous 21.07 11. Custom Work 0.00 12. Operating Interest Paid 10.75 13. Paid Labour 30.43 Variable Costs 153.55 0.00 1. Cash/ Share Land Rent 0.00 2. Taxes, Water Rates, License & Ins. 2.061 2. Taxes, Water Rates, License & Ins. 2.061 2. Taxes, Water Rates, License & Ins. 2.061 2. Total Product	2. Crop Insurance Receipts 0.00 0.00 3. Other Receipts 48.12 29.85 Gross Receipts 147.72 0.00 91.63 Cost Items 1 7.23 1. Seed 11.65 7.23 2. Fertilizer 2.42 0.00 3. Chemical 0.00 0.00 4. Hal/Crop Insurance Premium 0.00 0.00 5. Fuel 27.19 16.86 7. Irrigation Fuel and Electricity 7.23 4.48 8. Repairs - Machinery 36.77 22.81 9. Repairs - Buildings 0.00 0.00 10. Utilities and Miscellaneous 21.07 13.07 11. Custom Work 0.00 0.00 2. Operating Interest Paid 10.75 6.67 3. Paid Labour 30.43 18.88 Variable Costs 153.55 0.00 95.25 1. Cash/ Share Land Rent 0.00 1.8.249

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	- · · · · · · · · · · · · · · · · · · ·	feed - All ated - Stub	oble				
	Unit: Tonne			\$/Ac	re	\$/Ton	ne
				Average	Top 1/3	Average	Top 1/3
(A) 1.	. Crop Sales			76.56		66.14	
2	. Crop Insurance Rece	eipts		0.00		0.00	
3.	. Other Receipts			24.26		20.95	
	Gross Receipts			100.82	0.00	87.09	0.00
(B)	Cost Items						
1.	. Seed			10.35		8.94	
2	. Fertilizer			12.36		10.68	
3.	. Chemical			2.30		1.99	
4	. Hail/Crop Insurance I	Premium		1.20		1.04	
5.				0.00		0.00	
6	. Fuel	•		26.93		23.27	
7.	. Irrigation Fuel and El	ectricity		2.52		2.17	
8	. Repairs - Machinery			18.88		16.31	
	. Repairs - Buildings			0.69		0.59	
	0. Utilities and Miscellar	neous		7.79		6.73	
	1. Custom Work			1.20		1.04	
	2. Operating Interest Pa	aid		13.94		12.04	
	3. Paid Labour			1.15		0.99	
	4. Unpaid Labour			21.19		18.31	
	Variable Costs			120.49	0.00	104.09	0.00
(C) 1	. Cash/ Share Land Re	ent		15.00		12.96	
• •	. Taxes, Water Rates,		Ins.	4.32		3.74	
	. Equipment and Build			29.46		25.45	
			ease Payments	4.49		3.87	
4	. Paid Capital Interest	<i>v)</i> –	ouco r ujinomo	2.17		1.87	
	Capital Costs			55.44	0.00	47.89	0.00
(D)	Cash Costs		(B+C-B14-C3a)	125.28		108.22	
(E)	Total Production Co	osts	(B+C)	175.93		151.98	
<u> </u>	Gross Margin		(A-D)	(24.46)		(21.13)	
	Return to Unpaid La	abour	(A-E+B14)	(53.92)		(46.58)	
	Return to Investme		(A-E+C4)	(72.95)		(63.02)	
	Return to Equity		(А-Е)	(75.11)		(64.89)	
	Investment			44.40			
	Buildings			44.16			
	Machinery			276.46			
	Irrigation Machinery Total (incl. Land)			13.49 974.10			
	Management	/ .		4.40			
	Average Yield		ne/acre)	1.16			
	Expected Market Price	ce (\$/10	onne)	66.14			

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	Crop: Soil Zone:	Grain Silage - - Irrigated - S					
	Unit:	Tonne		\$/Ac	ro	\$/Ton	ne
	onit.	ronne		Average	Top 1/3	Average	Top 1/3
(A) 1	1. Crop Sales			302.29		35.70	
2	2. Crop Insura	nce Receipts		0.00		0.00	
3	3. Other Recei	ipts		10.62		1.25	
	Gross Rece	eipts		312.91	0.00	36.96	0.00
(B)	Cost Items						
1	1. Seed			10.31		1.22	
2	2. Fertilizer			31.77		3.75	
3	3. Chemical			8.89		1.05	
4	4. Hail/Crop In	surance Premiur	n	6.86		0.81	
5	5. Trucking an	d Marketing		0.00		0.00	
6	6. Fuel			31.22		3.69	
7	7. Irrigation Fu	el and Electricity		6.59		0.78	
8	3. Repairs - M	achinery		21.32		2.52	
9	9. Repairs - Bu	uildings		2.01		0.24	
1	10. Utilities and	Miscellaneous		17.38		2.05	
1	11. Custom Wo	rk		4.48		0.53	
1	12. Operating Ir	nterest Paid		6.31		0.74	
1	13. Paid Labour	r		2.65		0.31	
1	14. Unpaid Lab	our		23.04		2.72	
	Variable Co	osts		172.81	0.00	20.41	0.00
(C) 1	1. Cash/ Share	e Land Rent		24.75		2.92	
2	2. Taxes, Wate	er Rates, License	& Ins.	13.95		1.65	
3	3. Equipment a	and Building: a)	Depreciation	52.96		6.25	
		b)	Lease Payments	5.26		0.62	
4	4. Paid Capita	l Interest		26.86		3.17	
	Capital Cos	sts		123.78	0.00	14.62	0.00
(D)	Cash Costs	6	(B+C-B14-C3a)	220.59		26.05	
<u>(E)</u>	Total Produ	uction Costs	(B+C)	296.59		35.03	
	Gross Marg	gin	(A-D)	92.32		10.90	
	Return to L	Inpaid Labour	(A-E+B14)	39.36		4.65	
	Return to l	nvestment	(A-E+C4)	43.18		5.10	
	Return to E	Equity	(A-E)	16.32		1.93	
	_						
	Investment Buildings			39.78			
	Machinery			312.88			
	Irrigation Ma	achinerv		266.63			
	Total (inc			2798.39			
	Manageme	nt					
	Average Yie		onne/acre)	8.47			
	Expected M		/Tonne)	35.70			
		(Ψ		00.10			

AgriProfit# FREQUENCY AND CUMULATIVE FREQUENCY DISTRIBUTION

Distribution charts provide a summary of yields, costs, and returns data in visual form. Frequency distributions relate the percentage (or number) of observations falling in a specific range. Cumulative frequency distribution displays the same information as frequency distribution, but it is expressed as a "rate of change" (i.e. the steeper the slope the greater the change). Cumulative frequency also illustrates how many observations lie above or below certain values, rather than only recording the number of items within the intervals.

The frequency information in this benchmark report provides an indication of how crops performed, on a field-by-field basis, within the *AgriProfit\$* pool and within a particular soil zone region. Looking forward, this information can be used to evaluate how and why this crop might be included in future cropping plans based on these types of frequencies. In the following discussions, the sugar beet frequency distribution charts are used as an example of how to interpret the frequency information. The *bar charts* on the left side represent the percentage of fields *within each range*, while the *line charts* on the right side indicate the total or *cumulative percentage* of fields at each point, as if the bars were stacked.

The first pair of charts provides the distribution of the sugar beet yield range in the irrigated soil zones. From these charts a lot can be interpreted about yield performance:

- The low is less than 18 tonnes per acre and the high is close to 36 tonnes per acre, and
- Over 70% of the sugar beet fields in the irrigated soil zones yield between 15 and 30 tonnes per acre.
- More specifically, the bar chart on the left indicates that about 6% of the fields had yields between 0-18 tonnes/ac, and another 13% had yields between 18-21 tonnes/ac, etc. The line chart on the right side represents the cumulative percentage of these fields, so that at 21 tonnes/ac around 19% of the total number of fields are represented, and at 24 tonnes/ac approximately 35% of the fields, and so on.

This detailed information provides a better understanding of yield variability. The average yield is 26 tonnes per acre provided on the sugar beet crop analysis. While the average (or mean) is important, consideration of both the mean and variability ultimately sets the stage for good decision-making and management practices.

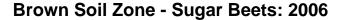
The second set of graphs focuses on the distribution of cost totals. Understanding these provides a basis for cost control and managing for yield per dollar invested. It is important to look at cash costs for individual field analysis (as an indication of cash flow pressure points). Cash costs include all cash expenses accrued to the production of that crop. Total production costs are important when assessing all crops together for an overall enterprise analysis, relaying the longer term cost efficiency of each crop and the combined crop mix. Total production costs include the non-cash elements of unpaid labour and depreciation, in addition to cash costs. Looking at the charts, if the price of sugar beets was \$40.50 per tonne, then over 94% of the fields are covering their cash costs and over 82% of the fields are covering their total production costs. In the long run, the best mix of crops would cover total production costs and give a positive net return per acre.

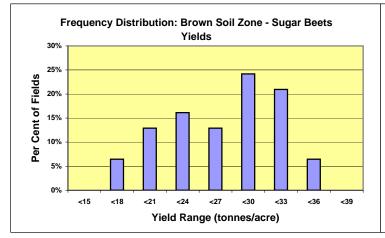
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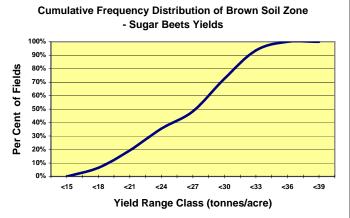
The third set of graphs highlights contribution and gross margins. Contribution margin is the return over variable costs (a combination of variable cash and non-cash/unpaid labour costs). It is the best single indicator of profitability at the individual field level and it is used to compare and select crops to grow, regardless of the fields being owned or rented. The first objective in setting up a crop plan is to select crops with a positive contribution margin; this will identify the most profitable crop mix over the long term. Gross margin is the return over total cash costs, which include fixed costs (land rent, taxes, water rights, licenses and capital interest). It is valuable in predicting each crop's ability to generate cash flow for the year. From a cash flow point of view, the gross margin provides an indication of the crop's ability to contribute to principal payments and operator withdrawals. From a profitability perspective, gross margin is what is leftover to cover the non-cash costs and provide a return on investment.

The final set of graphs shows the distribution of returns to equity, or profit per unit of production. This example shows that approximately 15% of the fields had a loss and 85% of the fields broke even. Return to equity can be used to compare the profitability of one crop versus another or one farm enterprise to another in the same industry.

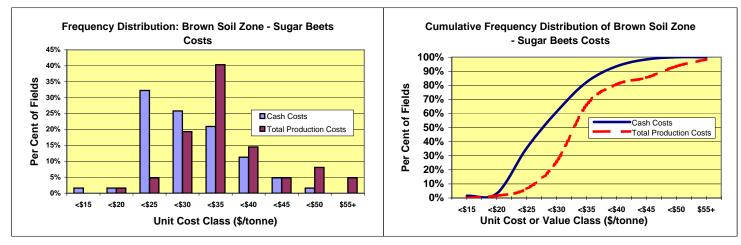
Understanding these concepts in *AgriProfit*\$ and evaluating historical performance on a per bushel basis can be very useful for other Alberta Agriculture and Rural Development (ARD) applications. For example, *CropChoice*\$ is a tool that combines traditional crop planning with the ability to measure the riskiness of your plan. Producers can then creatively evaluate potential risk management strategies.

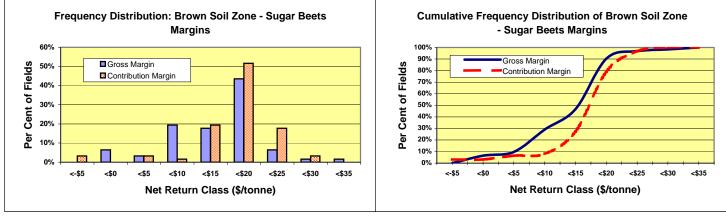


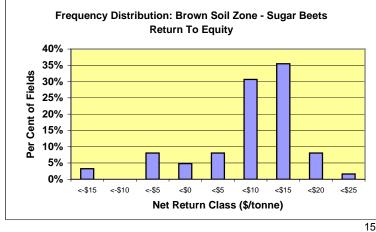


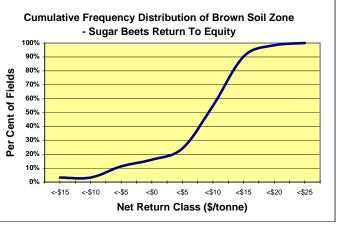


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I INCOME

- 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