

*AgriProfit\$*

**Cost and Return Profiles for  
Selected Crops, 2005**  
*Irrigated Crops*

July, 2007



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## OVERVIEW

### 2005 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 surveyed throughout the winter and the Alberta Agriculture and Food (AF) 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 2005 program season.

For questions regarding this document please contact:

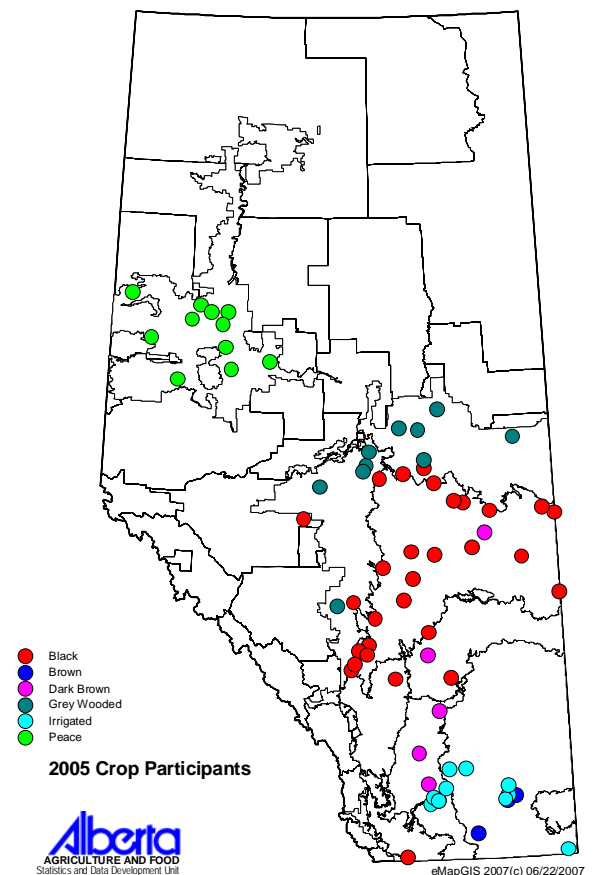
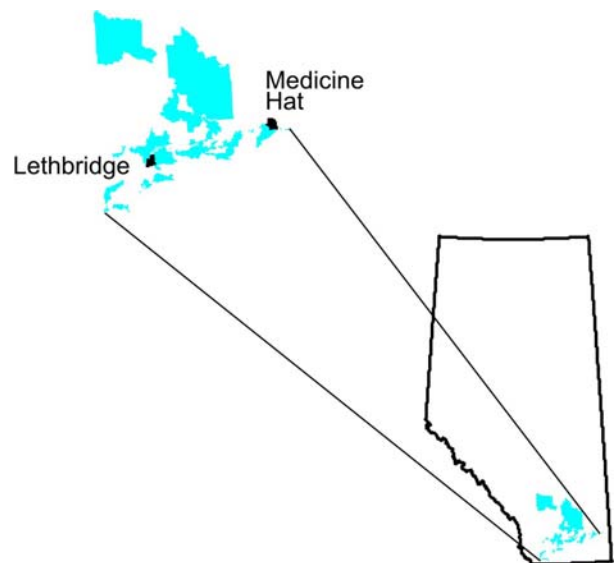
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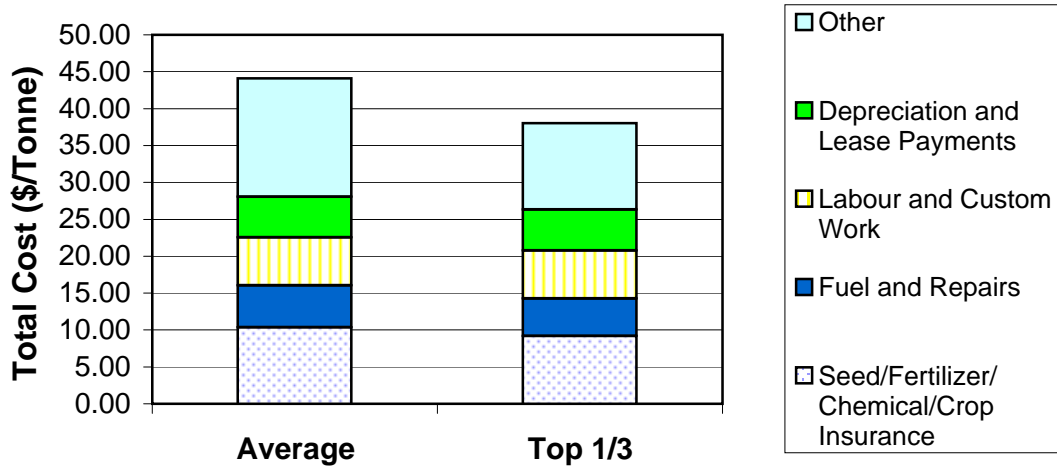
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#### Acknowledgements:

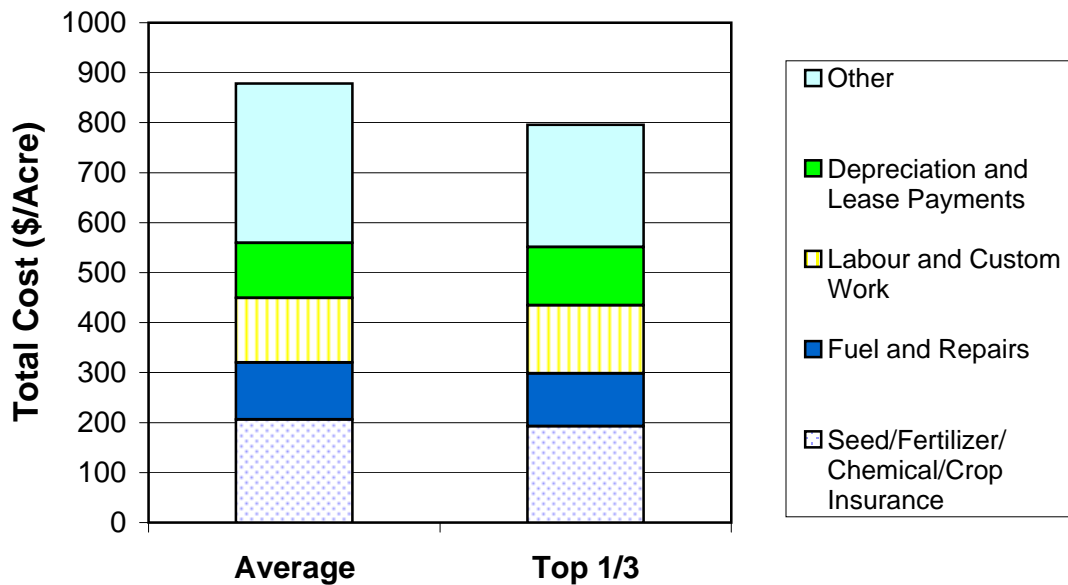
Renn Breitzkreuz, Dale Kaliel, Pauline Van Biert, Shukun Guan, Guangzhi Liu, Nabi Chaudhary, Richard Stadlwieser, Interviewers and Participants



## 2005 Sugar Beets on Irrigated Soil Zones



## 2005 Sugar Beets on Irrigated Soil Zones



## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** Spring Wheat - All  
**Soil Zone:** Irrigated - Stubble  
**Unit:** Bushel

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	302.94	--	3.67	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	2.31	--	0.03	--
	<b>Gross Receipts</b>	<b>305.25</b>	<b>0.00</b>	<b>3.70</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	16.03	--	0.19	--
	2. Fertilizer	53.70	--	0.65	--
	3. Chemical	32.46	--	0.39	--
	4. Hail/Crop Insurance Premium	12.63	--	0.15	--
	5. Trucking and Marketing	4.78	--	0.06	--
	6. Fuel	30.81	--	0.37	--
	7. Irrigation Fuel and Electricity	7.85	--	0.10	--
	8. Repairs - Machinery	32.79	--	0.40	--
	9. Repairs - Buildings	1.58	--	0.02	--
	10. Utilities and Miscellaneous	15.71	--	0.19	--
	11. Custom Work	1.90	--	0.02	--
	12. Operating Interest Paid	4.89	--	0.06	--
	13. Paid Labour	22.71	--	0.28	--
	14. Unpaid Labour	13.02	--	0.16	--
	<b>Variable Costs</b>	<b>250.87</b>	<b>0.00</b>	<b>3.04</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	5.47	--	0.07	--
	2. Taxes, Water Rates, License & Ins.	29.99	--	0.36	--
	3. Equipment and Building: a) Depreciation	63.78	--	0.77	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	19.79	--	0.24	--	
	<b>Capital Costs</b>	<b>119.03</b>	<b>0.00</b>	<b>1.44</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>293.10</b>	--	<b>3.55</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>369.90</b>	--	<b>4.48</b>	--
	<b>Gross Margin (A-D)</b>	<b>12.15</b>	--	<b>0.15</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>(51.63)</b>	--	<b>(0.63)</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>(44.86)</b>	--	<b>(0.54)</b>	--
	<b>Return to Equity (A-E)</b>	<b>(64.65)</b>	--	<b>(0.78)</b>	--

### Investment

Buildings	149.35	--
Machinery	422.17	--
Irrigation Machinery	213.50	--
<b>Total (incl. Land)</b>	<b>2553.77</b>	--

### Management

Average Yield	(Bushel/acre)	82.53	--
Expected Market Price	(\$/Bushel)	3.67	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** Spring Wheat - Own  
**Soil Zone:** Irrigated - Stubble  
**Unit:** Bushel

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	314.91	--	3.72	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	2.09	--	0.02	--	
	<b>Gross Receipts</b>	<b>317.00</b>	<b>0.00</b>	<b>3.74</b>	<b>0.00</b>	
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	15.40	--	0.18	--	
	2. Fertilizer	54.88	--	0.65	--	
	3. Chemical	33.73	--	0.40	--	
	4. Hail/Crop Insurance Premium	12.33	--	0.15	--	
	5. Trucking and Marketing	5.46	--	0.06	--	
	6. Fuel	29.81	--	0.35	--	
	7. Irrigation Fuel and Electricity	6.83	--	0.08	--	
	8. Repairs - Machinery	30.47	--	0.36	--	
	9. Repairs - Buildings	1.81	--	0.02	--	
	10. Utilities and Miscellaneous	13.89	--	0.16	--	
	11. Custom Work	1.29	--	0.02	--	
	12. Operating Interest Paid	4.46	--	0.05	--	
	13. Paid Labour	22.98	--	0.27	--	
	14. Unpaid Labour	11.90	--	0.14	--	
<b>Variable Costs</b>	<b>245.24</b>	<b>0.00</b>	<b>2.89</b>	<b>0.00</b>		
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	33.07	--	0.39	--	
	3. Equipment and Building:	a) Depreciation	61.97	--	0.73	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	20.83	--	0.25	--	
<b>Capital Costs</b>	<b>115.87</b>	<b>0.00</b>	<b>1.37</b>	<b>0.00</b>		
<b>(D)</b>	<b>Cash Costs</b>	<b>287.23</b>	--	<b>3.39</b>	--	
<b>(E)</b>	<b>Total Production Costs</b>	<b>361.10</b>	--	<b>4.26</b>	--	
	<b>Gross Margin</b>	<b>29.77</b>	--	<b>0.35</b>	--	
	<b>Return to Unpaid Labour</b>	<b>(32.20)</b>	--	<b>(0.38)</b>	--	
	<b>Return to Investment</b>	<b>(23.28)</b>	--	<b>(0.27)</b>	--	
	<b>Return to Equity</b>	<b>(44.10)</b>	--	<b>(0.52)</b>	--	

**Investment**

Buildings	140.43	--
Machinery	373.07	--
Irrigation Machinery	244.00	--
<b>Total (incl. Land)</b>	<b>2778.94</b>	--

**Management**

Average Yield	(Bushel/acre)	84.74	--
Expected Market Price	(\$/Bushel)	3.72	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:**        *Soft Wheat - All*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:**        *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	384.19	--	3.75	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	66.61	--	0.65	--
<b>Gross Receipts</b>		<b>450.80</b>	<b>0.00</b>	<b>4.40</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	11.50	--	0.11	--
	2. Fertilizer	56.93	--	0.56	--
	3. Chemical	17.39	--	0.17	--
	4. Hail/Crop Insurance Premium	11.02	--	0.11	--
	5. Trucking and Marketing	7.62	--	0.07	--
	6. Fuel	15.86	--	0.15	--
	7. Irrigation Fuel and Electricity	8.90	--	0.09	--
	8. Repairs - Machinery	12.10	--	0.12	--
	9. Repairs - Buildings	2.94	--	0.03	--
	10. Utilities and Miscellaneous	17.16	--	0.17	--
	11. Custom Work	17.73	--	0.17	--
	12. Operating Interest Paid	0.60	--	0.01	--
	13. Paid Labour	4.58	--	0.04	--
	14. Unpaid Labour	16.10	--	0.16	--
<b>Variable Costs</b>		<b>200.42</b>	<b>0.00</b>	<b>1.96</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	72.57	--	0.71	--
	2. Taxes, Water Rates, License & Ins.	10.00	--	0.10	--
	3. Equipment and Building: a) Depreciation	49.08	--	0.48	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	6.44	--	0.06	--
<b>Capital Costs</b>		<b>138.09</b>	<b>0.00</b>	<b>1.35</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs</b>	<b>(B+C-B14-C3a)</b>	<b>273.33</b>	<b>--</b>	<b>2.67</b>
<b>(E)</b>	<b>Total Production Costs</b>	<b>(B+C)</b>	<b>338.51</b>	<b>--</b>	<b>3.30</b>
	<b>Gross Margin</b>	<b>(A-D)</b>	<b>177.46</b>	<b>--</b>	<b>1.73</b>
	<b>Return to Unpaid Labour</b>	<b>(A-E+B14)</b>	<b>128.38</b>	<b>--</b>	<b>1.25</b>
	<b>Return to Investment</b>	<b>(A-E+C4)</b>	<b>118.73</b>	<b>--</b>	<b>1.16</b>
	<b>Return to Equity</b>	<b>(A-E)</b>	<b>112.29</b>	<b>--</b>	<b>1.10</b>

**Investment**

Buildings	114.28	--
Machinery	312.93	--
Irrigation Machinery	190.34	--
<b>Total (incl. Land)</b>	<b>1362.59</b>	<b>--</b>

**Management**

Average Yield	(Bushel/acre)	102.45	--
Expected Market Price	(\$/Bushel)	3.75	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:**        *Soft Wheat - Rent*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:**        *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	368.64	--	3.75	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	56.77	--	0.58	--
	<b>Gross Receipts</b>	<b>425.41</b>	<b>0.00</b>	<b>4.33</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	11.50	--	0.12	--
	2. Fertilizer	61.06	--	0.62	--
	3. Chemical	15.62	--	0.16	--
	4. Hail/Crop Insurance Premium	11.38	--	0.12	--
	5. Trucking and Marketing	7.62	--	0.08	--
	6. Fuel	15.86	--	0.16	--
	7. Irrigation Fuel and Electricity	8.91	--	0.09	--
	8. Repairs - Machinery	12.10	--	0.12	--
	9. Repairs - Buildings	2.94	--	0.03	--
	10. Utilities and Miscellaneous	17.16	--	0.17	--
	11. Custom Work	14.27	--	0.15	--
	12. Operating Interest Paid	0.60	--	0.01	--
	13. Paid Labour	4.58	--	0.05	--
	14. Unpaid Labour	16.10	--	0.16	--
	<b>Variable Costs</b>	<b>199.68</b>	<b>0.00</b>	<b>2.03</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	96.55	--	0.98	--
	2. Taxes, Water Rates, License & Ins.	3.74	--	0.04	--
	3. Equipment and Building: a) Depreciation	33.33	--	0.34	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	4.05	--	0.04	--
	<b>Capital Costs</b>	<b>137.67</b>	<b>0.00</b>	<b>1.40</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs</b>	<b>(B+C-B14-C3a)</b>	<b>287.93</b>	<b>--</b>	<b>2.93</b>
<b>(E)</b>	<b>Total Production Costs</b>	<b>(B+C)</b>	<b>337.35</b>	<b>--</b>	<b>3.43</b>
	<b>Gross Margin</b>	<b>(A-D)</b>	<b>137.48</b>	<b>--</b>	<b>1.40</b>
	<b>Return to Unpaid Labour</b>	<b>(A-E+B14)</b>	<b>104.16</b>	<b>--</b>	<b>1.06</b>
	<b>Return to Investment</b>	<b>(A-E+C4)</b>	<b>92.11</b>	<b>--</b>	<b>0.94</b>
	<b>Return to Equity</b>	<b>(A-E)</b>	<b>88.06</b>	<b>--</b>	<b>0.90</b>

**Investment**

Buildings	114.28	--
Machinery	312.93	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>427.21</b>	<b>--</b>

**Management**

Average Yield	(Bushel/acre)	98.30	--
Expected Market Price	(\$/Bushel)	3.75	--



## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Durum - All*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:** *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	300.00	--	3.00	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	0.00	--	0.00	--	
	<b>Gross Receipts</b>	<b>300.00</b>	<b>0.00</b>	<b>3.00</b>	<b>0.00</b>	
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	17.50	--	0.18	--	
	2. Fertilizer	60.33	--	0.60	--	
	3. Chemical	27.67	--	0.28	--	
	4. Hail/Crop Insurance Premium	12.86	--	0.13	--	
	5. Trucking and Marketing	8.35	--	0.08	--	
	6. Fuel	20.78	--	0.21	--	
	7. Irrigation Fuel and Electricity	15.49	--	0.15	--	
	8. Repairs - Machinery	34.18	--	0.34	--	
	9. Repairs - Buildings	1.14	--	0.01	--	
	10. Utilities and Miscellaneous	15.89	--	0.16	--	
	11. Custom Work	5.17	--	0.05	--	
	12. Operating Interest Paid	10.79	--	0.11	--	
	13. Paid Labour	24.23	--	0.24	--	
	14. Unpaid Labour	18.71	--	0.19	--	
<b>Variable Costs</b>	<b>273.09</b>	<b>0.00</b>	<b>2.73</b>	<b>0.00</b>		
<b>(C)</b>	1. Cash/ Share Land Rent	42.00	--	0.42	--	
	2. Taxes, Water Rates, License & Ins.	19.44	--	0.19	--	
	3. Equipment and Building:	a) Depreciation	26.76	--	0.27	--
		b) Lease Payments	10.09	--	0.10	--
	4. Paid Capital Interest	21.75	--	0.22	--	
<b>Capital Costs</b>	<b>120.04</b>	<b>0.00</b>	<b>1.20</b>	<b>0.00</b>		
<b>(D)</b>	<b>Cash Costs</b>	<b>(B+C-B14-C3a)</b>	<b>347.66</b>	<b>--</b>	<b>3.48</b>	
<b>(E)</b>	<b>Total Production Costs</b>	<b>(B+C)</b>	<b>393.13</b>	<b>--</b>	<b>3.93</b>	
	<b>Gross Margin</b>	<b>(A-D)</b>	<b>(47.66)</b>	<b>--</b>	<b>(0.48)</b>	
	<b>Return to Unpaid Labour</b>	<b>(A-E+B14)</b>	<b>(74.42)</b>	<b>--</b>	<b>(0.74)</b>	
	<b>Return to Investment</b>	<b>(A-E+C4)</b>	<b>(71.38)</b>	<b>--</b>	<b>(0.71)</b>	
	<b>Return to Equity</b>	<b>(A-E)</b>	<b>(93.13)</b>	<b>--</b>	<b>(0.93)</b>	

**Investment**

Buildings	38.45	--
Machinery	238.39	--
Irrigation Machinery	84.93	--
<b>Total (incl. Land)</b>	<b>1261.77</b>	<b>--</b>

**Management**

Average Yield	(Bushel/acre)	100.00	--
Expected Market Price	(\$/Bushel)	3.00	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Feed Barley - All*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:** *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	244.69	--	2.30	--	
	2. Crop Insurance Receipts	1.32	--	0.01	--	
	3. Other Receipts	18.59	--	0.17	--	
	<b>Gross Receipts</b>	<b>264.60</b>	<b>0.00</b>	<b>2.49</b>	<b>0.00</b>	
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	13.11	--	0.12	--	
	2. Fertilizer	50.58	--	0.48	--	
	3. Chemical	23.47	--	0.22	--	
	4. Hail/Crop Insurance Premium	8.40	--	0.08	--	
	5. Trucking and Marketing	6.80	--	0.06	--	
	6. Fuel	15.98	--	0.15	--	
	7. Irrigation Fuel and Electricity	6.35	--	0.06	--	
	8. Repairs - Machinery	17.12	--	0.16	--	
	9. Repairs - Buildings	2.40	--	0.02	--	
	10. Utilities and Miscellaneous	13.20	--	0.12	--	
	11. Custom Work	7.15	--	0.07	--	
	12. Operating Interest Paid	2.34	--	0.02	--	
	13. Paid Labour	11.43	--	0.11	--	
	14. Unpaid Labour	16.90	--	0.16	--	
<b>Variable Costs</b>	<b>195.23</b>	<b>0.00</b>	<b>1.84</b>	<b>0.00</b>		
<b>(C)</b>	1. Cash/ Share Land Rent	42.85	--	0.40	--	
	2. Taxes, Water Rates, License & Ins.	13.69	--	0.13	--	
	3. Equipment and Building:	a) Depreciation	66.08	--	0.62	--
		b) Lease Payments	0.65	--	0.01	--
	4. Paid Capital Interest	5.26	--	0.05	--	
<b>Capital Costs</b>	<b>128.54</b>	<b>0.00</b>	<b>1.21</b>	<b>0.00</b>		
<b>(D)</b>	<b>Cash Costs</b>	<b>240.79</b>	--	<b>2.27</b>	--	
<b>(E)</b>	<b>Total Production Costs</b>	<b>323.77</b>	--	<b>3.05</b>	--	
	<b>Gross Margin</b>	<b>23.81</b>	--	<b>0.22</b>	--	
	<b>Return to Unpaid Labour</b>	<b>(42.27)</b>	--	<b>(0.40)</b>	--	
	<b>Return to Investment</b>	<b>(53.91)</b>	--	<b>(0.51)</b>	--	
	<b>Return to Equity</b>	<b>(59.17)</b>	--	<b>(0.56)</b>	--	

**Investment**

Buildings	139.01	--
Machinery	441.94	--
Irrigation Machinery	229.18	--
<b>Total (incl. Land)</b>	<b>1764.37</b>	--

**Management**

Average Yield	(Bushel/acre)	106.26	--
Expected Market Price	(\$/Bushel)	2.30	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Feed Barley - All*  
**Soil Zone:** *Irrigated - Fallow*  
**Unit:** *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	108.10	--	2.30	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	16.98	--	0.36	--	
	<b>Gross Receipts</b>	<b>125.08</b>	<b>0.00</b>	<b>2.66</b>	<b>0.00</b>	
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	10.74	--	0.23	--	
	2. Fertilizer	0.00	--	0.00	--	
	3. Chemical	0.00	--	0.00	--	
	4. Hail/Crop Insurance Premium	7.28	--	0.15	--	
	5. Trucking and Marketing	0.00	--	0.00	--	
	6. Fuel	22.79	--	0.48	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	5.89	--	0.13	--	
	9. Repairs - Buildings	0.00	--	0.00	--	
	10. Utilities and Miscellaneous	7.66	--	0.16	--	
	11. Custom Work	16.50	--	0.35	--	
	12. Operating Interest Paid	0.00	--	0.00	--	
	13. Paid Labour	0.00	--	0.00	--	
	14. Unpaid Labour	22.88	--	0.49	--	
<b>Variable Costs</b>	<b>93.75</b>	<b>0.00</b>	<b>1.99</b>	<b>0.00</b>		
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	3.49	--	0.07	--	
	3. Equipment and Building:	a) Depreciation	23.34	--	0.50	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	0.00	--	0.00	--	
<b>Capital Costs</b>	<b>26.83</b>	<b>0.00</b>	<b>0.57</b>	<b>0.00</b>		
<b>(D)</b>	<b>Cash Costs</b>	<b>74.35</b>	<b>--</b>	<b>1.58</b>	<b>--</b>	
<b>(E)</b>	<b>Total Production Costs</b>	<b>120.58</b>	<b>--</b>	<b>2.57</b>	<b>--</b>	
	<b>Gross Margin</b>	<b>50.73</b>	<b>--</b>	<b>1.08</b>	<b>--</b>	
	<b>Return to Unpaid Labour</b>	<b>27.39</b>	<b>--</b>	<b>0.58</b>	<b>--</b>	
	<b>Return to Investment</b>	<b>4.50</b>	<b>--</b>	<b>0.10</b>	<b>--</b>	
	<b>Return to Equity</b>	<b>4.50</b>	<b>--</b>	<b>0.10</b>	<b>--</b>	

**Investment**

Buildings	141.42	--
Machinery	184.38	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>1525.80</b>	<b>--</b>

**Management**

Average Yield	(Bushel/acre)	47.00	--
Expected Market Price	(\$/Bushel)	2.30	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Feed Barley - Own*  
**Soil Zone:** *Irrigated - Fallow*  
**Unit:** *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	108.10	--	2.30	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	16.98	--	0.36	--
	<b>Gross Receipts</b>	<b>125.08</b>	<b>0.00</b>	<b>2.66</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	10.74	--	0.23	--
	2. Fertilizer	0.00	--	0.00	--
	3. Chemical	0.00	--	0.00	--
	4. Hail/Crop Insurance Premium	7.28	--	0.15	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	22.79	--	0.48	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	5.89	--	0.13	--
	9. Repairs - Buildings	0.00	--	0.00	--
	10. Utilities and Miscellaneous	7.66	--	0.16	--
	11. Custom Work	16.50	--	0.35	--
	12. Operating Interest Paid	0.00	--	0.00	--
	13. Paid Labour	0.00	--	0.00	--
14. Unpaid Labour	22.88	--	0.49	--	
	<b>Variable Costs</b>	<b>93.75</b>	<b>0.00</b>	<b>1.99</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	3.49	--	0.07	--
	3. Equipment and Building: a) Depreciation	23.34	--	0.50	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	0.00	--	0.00	--	
	<b>Capital Costs</b>	<b>26.83</b>	<b>0.00</b>	<b>0.57</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>74.35</b>	<b>--</b>	<b>1.58</b>	<b>--</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>120.58</b>	<b>--</b>	<b>2.57</b>	<b>--</b>
	<b>Gross Margin (A-D)</b>	<b>50.73</b>	<b>--</b>	<b>1.08</b>	<b>--</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>27.39</b>	<b>--</b>	<b>0.58</b>	<b>--</b>
	<b>Return to Investment (A-E+C4)</b>	<b>4.50</b>	<b>--</b>	<b>0.10</b>	<b>--</b>
	<b>Return to Equity (A-E)</b>	<b>4.50</b>	<b>--</b>	<b>0.10</b>	<b>--</b>

**Investment**

Buildings	141.42	--
Machinery	184.38	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>1525.80</b>	<b>--</b>

**Management**

Average Yield (Bushel/acre)	47.00	--
Expected Market Price (\$/Bushel)	2.30	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Feed Barley - Rent*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:** *Bushel*

		----- \$/Acre -----		---- \$/Bushel ----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	239.46	--	2.38	--
	2. Crop Insurance Receipts	2.47	--	0.02	--
	3. Other Receipts	22.49	--	0.22	--
	<b>Gross Receipts</b>	<b>264.41</b>	<b>0.00</b>	<b>2.63</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	11.93	--	0.12	--
	2. Fertilizer	52.27	--	0.52	--
	3. Chemical	20.61	--	0.20	--
	4. Hail/Crop Insurance Premium	8.40	--	0.08	--
	5. Trucking and Marketing	4.35	--	0.04	--
	6. Fuel	15.31	--	0.15	--
	7. Irrigation Fuel and Electricity	8.37	--	0.08	--
	8. Repairs - Machinery	12.74	--	0.13	--
	9. Repairs - Buildings	2.39	--	0.02	--
	10. Utilities and Miscellaneous	15.44	--	0.15	--
	11. Custom Work	9.15	--	0.09	--
	12. Operating Interest Paid	4.20	--	0.04	--
	13. Paid Labour	4.73	--	0.05	--
	14. Unpaid Labour	21.79	--	0.22	--
	<b>Variable Costs</b>	<b>191.70</b>	<b>0.00</b>	<b>1.90</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	80.29	--	0.80	--
	2. Taxes, Water Rates, License & Ins.	5.57	--	0.06	--
	3. Equipment and Building: a) Depreciation	60.39	--	0.60	--
	b) Lease Payments	1.23	--	0.01	--
4. Paid Capital Interest	5.50	--	0.05	--	
	<b>Capital Costs</b>	<b>152.97</b>	<b>0.00</b>	<b>1.52</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs</b>	<b>(B+C-B14-C3a)</b>	<b>262.50</b>	<b>--</b>	<b>2.61</b>
<b>(E)</b>	<b>Total Production Costs</b>	<b>(B+C)</b>	<b>344.67</b>	<b>--</b>	<b>3.42</b>
	<b>Gross Margin</b>	<b>(A-D)</b>	<b>1.92</b>	<b>--</b>	<b>0.02</b>
	<b>Return to Unpaid Labour</b>	<b>(A-E+B14)</b>	<b>(58.47)</b>	<b>--</b>	<b>(0.58)</b>
	<b>Return to Investment</b>	<b>(A-E+C4)</b>	<b>(74.76)</b>	<b>--</b>	<b>(0.74)</b>
	<b>Return to Equity</b>	<b>(A-E)</b>	<b>(80.26)</b>	<b>--</b>	<b>(0.80)</b>

### Investment

Buildings	151.14	--
Machinery	582.10	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>733.24</b>	<b>--</b>

### Management

Average Yield	(Bushel/acre)	100.66	--
Expected Market Price	(\$/Bushel)	2.38	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Dry Beans - All*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:** *Pound*

		----- \$/Acre -----		----- \$/Pound -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	236.06	--	0.17	--
	2. Crop Insurance Receipts	82.01	--	0.06	--
	3. Other Receipts	0.75	--	0.00	--
	<b>Gross Receipts</b>	<b>318.83</b>	<b>0.00</b>	<b>0.23</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	60.44	--	0.04	--
	2. Fertilizer	48.16	--	0.03	--
	3. Chemical	76.66	--	0.05	--
	4. Hail/Crop Insurance Premium	33.77	--	0.02	--
	5. Trucking and Marketing	3.56	--	0.00	--
	6. Fuel	26.32	--	0.02	--
	7. Irrigation Fuel and Electricity	11.33	--	0.01	--
	8. Repairs - Machinery	36.87	--	0.03	--
	9. Repairs - Buildings	2.65	--	0.00	--
	10. Utilities and Miscellaneous	15.50	--	0.01	--
	11. Custom Work	1.63	--	0.00	--
	12. Operating Interest Paid	9.22	--	0.01	--
	13. Paid Labour	27.03	--	0.02	--
	14. Unpaid Labour	16.91	--	0.01	--
	<b>Variable Costs</b>	<b>370.07</b>	<b>0.00</b>	<b>0.26</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	45.04	--	0.03	--
	2. Taxes, Water Rates, License & Ins.	21.20	--	0.02	--
	3. Equipment and Building: a) Depreciation	40.27	--	0.03	--
	b) Lease Payments	8.70	--	0.01	--
4. Paid Capital Interest	27.38	--	0.02	--	
	<b>Capital Costs</b>	<b>142.59</b>	<b>0.00</b>	<b>0.10</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>455.48</b>	--	<b>0.33</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>512.66</b>	--	<b>0.37</b>	--
	<b>Gross Margin (A-D)</b>	<b>(136.65)</b>	--	<b>(0.10)</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>(176.92)</b>	--	<b>(0.13)</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>(166.45)</b>	--	<b>(0.12)</b>	--
	<b>Return to Equity (A-E)</b>	<b>(193.83)</b>	--	<b>(0.14)</b>	--

**Investment**

Buildings	29.47	--
Machinery	337.93	--
Irrigation Machinery	113.66	--
<b>Total (incl. Land)</b>	<b>1840.08</b>	--

**Management**

Average Yield	(Pound/acre)	1399.08	--
Expected Market Price	(\$/Pound)	0.17	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Dry Beans - Own*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:** *Pound*

		----- \$/Acre -----		----- \$/Pound -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	268.92	--	0.16	--
	2. Crop Insurance Receipts	46.68	--	0.03	--
	3. Other Receipts	1.31	--	0.00	--
	<b>Gross Receipts</b>	<b>316.91</b>	<b>0.00</b>	<b>0.18</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	66.71	--	0.04	--
	2. Fertilizer	51.01	--	0.03	--
	3. Chemical	78.63	--	0.05	--
	4. Hail/Crop Insurance Premium	37.98	--	0.02	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	29.61	--	0.02	--
	7. Irrigation Fuel and Electricity	11.17	--	0.01	--
	8. Repairs - Machinery	39.98	--	0.02	--
	9. Repairs - Buildings	3.88	--	0.00	--
	10. Utilities and Miscellaneous	15.80	--	0.01	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	8.42	--	0.00	--
	13. Paid Labour	27.16	--	0.02	--
14. Unpaid Labour	14.33	--	0.01	--	
	<b>Variable Costs</b>	<b>384.69</b>	<b>0.00</b>	<b>0.22</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	33.93	--	0.02	--
	3. Equipment and Building: a) Depreciation	50.62	--	0.03	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	40.91	--	0.02	--	
	<b>Capital Costs</b>	<b>125.46</b>	<b>0.00</b>	<b>0.07</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>445.19</b>	--	<b>0.26</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>510.15</b>	--	<b>0.30</b>	--
	<b>Gross Margin (A-D)</b>	<b>(128.29)</b>	--	<b>(0.07)</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>(178.91)</b>	--	<b>(0.10)</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>(152.33)</b>	--	<b>(0.09)</b>	--
	<b>Return to Equity (A-E)</b>	<b>(193.24)</b>	--	<b>(0.11)</b>	--

**Investment**

Buildings	34.80	--
Machinery	345.66	--
Irrigation Machinery	198.09	--
<b>Total (incl. Land)</b>	<b>2947.12</b>	--

**Management**

Average Yield (Pound/acre)	1726.49	--
Expected Market Price (\$/Pound)	0.16	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Dry Beans - Rent*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:** *Pound*

		----- \$/Acre -----		----- \$/Pound -----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	191.83	--	0.20	--	
	2. Crop Insurance Receipts	129.58	--	0.14	--	
	3. Other Receipts	0.00	--	0.00	--	
	<b>Gross Receipts</b>	<b>321.42</b>	<b>0.00</b>	<b>0.34</b>	<b>0.00</b>	
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	52.00	--	0.05	--	
	2. Fertilizer	44.33	--	0.05	--	
	3. Chemical	74.00	--	0.08	--	
	4. Hail/Crop Insurance Premium	28.12	--	0.03	--	
	5. Trucking and Marketing	8.35	--	0.01	--	
	6. Fuel	21.88	--	0.02	--	
	7. Irrigation Fuel and Electricity	11.56	--	0.01	--	
	8. Repairs - Machinery	32.67	--	0.03	--	
	9. Repairs - Buildings	1.00	--	0.00	--	
	10. Utilities and Miscellaneous	15.09	--	0.02	--	
	11. Custom Work	3.83	--	0.00	--	
	12. Operating Interest Paid	10.29	--	0.01	--	
	13. Paid Labour	26.86	--	0.03	--	
	14. Unpaid Labour	20.39	--	0.02	--	
<b>Variable Costs</b>	<b>350.39</b>	<b>0.00</b>	<b>0.37</b>	<b>0.00</b>		
<b>(C)</b>	1. Cash/ Share Land Rent	105.67	--	0.11	--	
	2. Taxes, Water Rates, License & Ins.	4.07	--	0.00	--	
	3. Equipment and Building:	a) Depreciation	26.34	--	0.03	--
		b) Lease Payments	20.42	--	0.02	--
	4. Paid Capital Interest	9.17	--	0.01	--	
<b>Capital Costs</b>	<b>165.66</b>	<b>0.00</b>	<b>0.17</b>	<b>0.00</b>		
<b>(D)</b>	<b>Cash Costs</b>	<b>(B+C-B14-C3a)</b>	<b>469.32</b>	<b>--</b>	<b>0.49</b>	
<b>(E)</b>	<b>Total Production Costs</b>	<b>(B+C)</b>	<b>516.05</b>	<b>--</b>	<b>0.54</b>	
	<b>Gross Margin</b>	<b>(A-D)</b>	<b>(147.91)</b>	<b>--</b>	<b>(0.15)</b>	
	<b>Return to Unpaid Labour</b>	<b>(A-E+B14)</b>	<b>(174.24)</b>	<b>--</b>	<b>(0.18)</b>	
	<b>Return to Investment</b>	<b>(A-E+C4)</b>	<b>(185.46)</b>	<b>--</b>	<b>(0.19)</b>	
	<b>Return to Equity</b>	<b>(A-E)</b>	<b>(194.63)</b>	<b>--</b>	<b>(0.20)</b>	

**Investment**

Buildings	22.29	--
Machinery	327.54	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>349.83</b>	<b>--</b>

**Management**

Average Yield	(Pound/acre)	958.33	--
Expected Market Price	(\$/Pound)	0.20	--



## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Sugar Beets - All*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:** *Tonne*

		----- \$/Acre -----		---- \$/Tonne ----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	897.02	942.20	45.02	45.02
	2. Crop Insurance Receipts	23.64	2.07	1.19	0.10
	3. Other Receipts	4.57	6.51	0.23	0.31
	<b>Gross Receipts</b>	<b>925.23</b>	<b>950.79</b>	<b>46.44</b>	<b>45.43</b>
<b>(B) Cost Items</b>					
	1. Seed	47.05	47.05	2.36	2.25
	2. Fertilizer	47.83	36.32	2.40	1.74
	3. Chemical	90.27	90.19	4.53	4.31
	4. Hail/Crop Insurance Premium	21.31	19.06	1.07	0.91
	5. Trucking and Marketing	94.74	84.33	4.76	4.03
	6. Fuel	55.03	53.68	2.76	2.57
	7. Irrigation Fuel and Electricity	16.87	10.06	0.85	0.48
	8. Repairs - Machinery	53.04	44.19	2.66	2.11
	9. Repairs - Buildings	5.28	7.80	0.27	0.37
	10. Utilities and Miscellaneous	36.21	29.49	1.82	1.41
	11. Custom Work	33.19	32.99	1.67	1.58
	12. Operating Interest Paid	11.27	3.63	0.57	0.17
	13. Paid Labour	55.51	66.54	2.79	3.18
	14. Unpaid Labour	41.18	36.80	2.07	1.76
	<b>Variable Costs</b>	<b>608.79</b>	<b>562.14</b>	<b>30.55</b>	<b>26.86</b>
<b>(C)</b>	1. Cash/ Share Land Rent	84.44	43.59	4.24	2.08
	2. Taxes, Water Rates, License & Ins.	21.22	27.08	1.07	1.29
	3. Equipment and Building: a) Depreciation	96.43	116.46	4.84	5.56
	b) Lease Payments	13.19	0.00	0.66	0.00
4. Paid Capital Interest	54.32	46.34	2.73	11.16	
	<b>Capital Costs</b>	<b>269.60</b>	<b>233.47</b>	<b>13.53</b>	<b>20.10</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>740.79</b>	<b>642.35</b>	<b>37.18</b>	<b>39.63</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>878.39</b>	<b>795.61</b>	<b>44.09</b>	<b>46.96</b>
	<b>Gross Margin (A-D)</b>	<b>184.44</b>	<b>308.44</b>	<b>9.26</b>	<b>5.80</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>88.01</b>	<b>191.98</b>	<b>4.42</b>	<b>0.23</b>
	<b>Return to Investment (A-E+C4)</b>	<b>101.15</b>	<b>201.52</b>	<b>5.08</b>	<b>9.63</b>
	<b>Return to Equity (A-E)</b>	<b>46.83</b>	<b>155.18</b>	<b>2.35</b>	<b>(1.53)</b>

**Investment**

Buildings	104.75	138.45
Machinery	748.00	736.16
Irrigation Machinery	286.50	467.39
<b>Total (incl. Land)</b>	<b>2178.24</b>	<b>2793.95</b>

**Management**

Average Yield (Tonne/acre)	19.92	20.93
Expected Market Price (\$/Tonne)	45.02	45.02

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Sugar Beets - Own*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:** *Tonne*

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	955.74	--	45.02	--
	2. Crop Insurance Receipts	31.67	--	1.49	--
	3. Other Receipts	7.70	--	0.36	--
	<b>Gross Receipts</b>	<b>995.11</b>	<b>0.00</b>	<b>46.87</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	47.05	--	2.22	--
	2. Fertilizer	50.50	--	2.38	--
	3. Chemical	88.18	--	4.15	--
	4. Hail/Crop Insurance Premium	22.40	--	1.06	--
	5. Trucking and Marketing	87.32	--	4.11	--
	6. Fuel	56.55	--	2.66	--
	7. Irrigation Fuel and Electricity	13.20	--	0.62	--
	8. Repairs - Machinery	54.13	--	2.55	--
	9. Repairs - Buildings	5.51	--	0.26	--
	10. Utilities and Miscellaneous	37.89	--	1.78	--
	11. Custom Work	35.10	--	1.65	--
	12. Operating Interest Paid	10.66	--	0.50	--
	13. Paid Labour	59.80	--	2.82	--
	14. Unpaid Labour	45.76	--	2.16	--
	<b>Variable Costs</b>	<b>614.04</b>	<b>0.00</b>	<b>28.92</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	38.63	--	1.82	--
	3. Equipment and Building: a) Depreciation	147.36	--	6.94	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	105.55	--	4.97	--	
	<b>Capital Costs</b>	<b>291.54</b>	<b>0.00</b>	<b>13.73</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs</b>	<b>(B+C-B14-C3a)</b>	<b>712.46</b>	<b>--</b>	<b>33.56</b>
<b>(E)</b>	<b>Total Production Costs</b>	<b>(B+C)</b>	<b>905.58</b>	<b>--</b>	<b>42.66</b>
	<b>Gross Margin</b>	<b>(A-D)</b>	<b>282.65</b>	<b>--</b>	<b>13.31</b>
	<b>Return to Unpaid Labour</b>	<b>(A-E+B14)</b>	<b>135.29</b>	<b>--</b>	<b>6.37</b>
	<b>Return to Investment</b>	<b>(A-E+C4)</b>	<b>195.08</b>	<b>--</b>	<b>9.19</b>
	<b>Return to Equity</b>	<b>(A-E)</b>	<b>89.53</b>	<b>--</b>	<b>4.22</b>

**Investment**

Buildings	103.20	--
Machinery	852.65	--
Irrigation Machinery	708.29	--
<b>Total (incl. Land)</b>	<b>4232.76</b>	<b>--</b>

**Management**

Average Yield	(Tonne/acre)	21.23	--
Expected Market Price	(\$/Tonne)	45.02	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Sugar Beets - Rent*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:** *Tonne*

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	857.13	897.40	45.02	45.02
	2. Crop Insurance Receipts	18.18	1.36	0.95	0.07
	3. Other Receipts	2.45	0.40	0.13	0.02
	<b>Gross Receipts</b>	<b>877.76</b>	<b>899.16</b>	<b>46.10</b>	<b>45.11</b>
<b>(B) Cost Items</b>					
	1. Seed	47.05	47.05	2.47	2.36
	2. Fertilizer	46.02	32.99	2.42	1.65
	3. Chemical	91.69	86.93	4.82	4.36
	4. Hail/Crop Insurance Premium	20.57	16.94	1.08	0.85
	5. Trucking and Marketing	99.79	106.41	5.24	5.34
	6. Fuel	53.99	54.55	2.84	2.74
	7. Irrigation Fuel and Electricity	19.36	19.13	1.02	0.96
	8. Repairs - Machinery	52.31	46.44	2.75	2.33
	9. Repairs - Buildings	5.13	6.12	0.27	0.31
	10. Utilities and Miscellaneous	35.07	30.22	1.84	1.52
	11. Custom Work	31.89	25.81	1.68	1.29
	12. Operating Interest Paid	11.69	11.06	0.61	0.55
	13. Paid Labour	52.60	55.90	2.76	2.80
	14. Unpaid Labour	38.06	32.90	2.00	1.65
	<b>Variable Costs</b>	<b>605.23</b>	<b>572.44</b>	<b>31.79</b>	<b>28.72</b>
<b>(C)</b>	1. Cash/ Share Land Rent	141.80	101.77	7.45	5.11
	2. Taxes, Water Rates, License & Ins.	9.40	8.45	0.49	0.42
	3. Equipment and Building: a) Depreciation	61.84	48.52	3.25	2.43
	b) Lease Payments	22.14	35.25	1.16	1.77
4. Paid Capital Interest	19.52	16.13	1.03	10.54	
	<b>Capital Costs</b>	<b>254.70</b>	<b>210.12</b>	<b>13.38</b>	<b>20.27</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>760.03</b>	<b>701.14</b>	<b>39.92</b>	<b>44.91</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>859.93</b>	<b>782.56</b>	<b>45.17</b>	<b>48.99</b>
	<b>Gross Margin (A-D)</b>	<b>117.73</b>	<b>198.01</b>	<b>6.18</b>	<b>0.20</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>55.90</b>	<b>149.50</b>	<b>2.94</b>	<b>(2.23)</b>
	<b>Return to Investment (A-E+C4)</b>	<b>37.35</b>	<b>132.73</b>	<b>1.96</b>	<b>6.66</b>
	<b>Return to Equity (A-E)</b>	<b>17.83</b>	<b>116.60</b>	<b>0.94</b>	<b>(3.88)</b>

**Investment**

Buildings	105.80	121.48
Machinery	676.92	561.35
Irrigation Machinery	0.00	0.00
<b>Total (incl. Land)</b>	<b>782.72</b>	<b>682.83</b>

**Management**

Average Yield (Tonne/acre)	19.04	19.93
Expected Market Price (\$/Tonne)	45.02	45.02

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Alfalfa Hay - All*  
**Soil Zone:** *Irrigated - Stubble*  
**Unit:** *Tonne*

		----- \$/Acre -----		----- \$/Tonne -----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	252.00	--	60.00	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	2.70	--	0.64	--	
	<b>Gross Receipts</b>	<b>254.70</b>	<b>0.00</b>	<b>60.64</b>	<b>0.00</b>	
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	4.99	--	1.19	--	
	2. Fertilizer	18.12	--	4.31	--	
	3. Chemical	0.00	--	0.00	--	
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--	
	5. Trucking and Marketing	10.13	--	2.41	--	
	6. Fuel	28.55	--	6.80	--	
	7. Irrigation Fuel and Electricity	23.51	--	5.60	--	
	8. Repairs - Machinery	49.41	--	11.76	--	
	9. Repairs - Buildings	0.00	--	0.00	--	
	10. Utilities and Miscellaneous	27.54	--	6.56	--	
	11. Custom Work	0.00	--	0.00	--	
	12. Operating Interest Paid	7.01	--	1.67	--	
	13. Paid Labour	15.52	--	3.69	--	
	14. Unpaid Labour	21.85	--	5.20	--	
<b>Variable Costs</b>	<b>206.62</b>	<b>0.00</b>	<b>49.19</b>	<b>0.00</b>		
<b>(C)</b>	1. Cash/ Share Land Rent	41.20	--	9.81	--	
	2. Taxes, Water Rates, License & Ins.	11.98	--	2.85	--	
	3. Equipment and Building:	a) Depreciation	83.71	--	19.93	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	28.37	--	6.76	--	
<b>Capital Costs</b>	<b>165.26</b>	<b>0.00</b>	<b>39.35</b>	<b>0.00</b>		
<b>(D)</b>	<b>Cash Costs</b>	<b>266.32</b>	--	<b>63.41</b>	--	
<b>(E)</b>	<b>Total Production Costs</b>	<b>371.88</b>	--	<b>88.54</b>	--	
	<i>Gross Margin</i>	<i>(11.62)</i>	--	<i>(2.77)</i>	--	
	<i>Return to Unpaid Labour</i>	<i>(95.33)</i>	--	<i>(22.70)</i>	--	
	<i>Return to Investment</i>	<i>(88.81)</i>	--	<i>(21.14)</i>	--	
	<i>Return to Equity</i>	<i>(117.18)</i>	--	<i>(27.90)</i>	--	

**Investment**

Buildings	97.22	--
Machinery	685.36	--
Irrigation Machinery	82.61	--
<b>Total (incl. Land)</b>	<b>1198.52</b>	--

**Management**

Average Yield	(Tonne/acre)	4.20	--
Expected Market Price	(\$/Tonne)	60.00	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Mixed Hay - All*  
**Soil Zone:** *Irrigated*  
**Unit:** *Tonne*

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	90.00	--	55.12	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	0.00	--	0.00	--
	<b>Gross Receipts</b>	<b>90.00</b>	<b>0.00</b>	<b>55.12</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	0.00	--	0.00	--
	2. Fertilizer	0.00	--	0.00	--
	3. Chemical	0.00	--	0.00	--
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	4.84	--	2.96	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	4.52	--	2.77	--
	9. Repairs - Buildings	0.00	--	0.00	--
	10. Utilities and Miscellaneous	7.15	--	4.38	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	0.00	--	0.00	--
	13. Paid Labour	5.03	--	3.08	--
14. Unpaid Labour	10.29	--	6.30	--	
<b>Variable Costs</b>	<b>31.84</b>	<b>0.00</b>	<b>19.50</b>	<b>0.00</b>	
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	1.93	--	1.18	--
	3. Equipment and Building: a) Depreciation	21.41	--	13.11	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	0.00	--	0.00	--	
<b>Capital Costs</b>	<b>23.33</b>	<b>0.00</b>	<b>14.29</b>	<b>0.00</b>	
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>23.47</b>	--	<b>14.37</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>55.17</b>	--	<b>33.79</b>	--
	<b>Gross Margin (A-D)</b>	<b>66.53</b>	--	<b>40.74</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>45.12</b>	--	<b>27.63</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>34.83</b>	--	<b>21.33</b>	--
	<b>Return to Equity (A-E)</b>	<b>34.83</b>	--	<b>21.33</b>	--

**Investment**

Buildings	83.41	--
Machinery	172.40	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>1455.81</b>	--

**Management**

Average Yield (Tonne/acre)	1.63	--
Expected Market Price (\$/Tonne)	55.12	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Mixed Hay - Own*  
**Soil Zone:** *Irrigated*  
**Unit:** *Tonne*

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	90.00	--	55.12	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	0.00	--	0.00	--
	<b>Gross Receipts</b>	<b>90.00</b>	<b>0.00</b>	<b>55.12</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	0.00	--	0.00	--
	2. Fertilizer	0.00	--	0.00	--
	3. Chemical	0.00	--	0.00	--
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	4.84	--	2.96	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	4.52	--	2.77	--
	9. Repairs - Buildings	0.00	--	0.00	--
	10. Utilities and Miscellaneous	7.15	--	4.38	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	0.00	--	0.00	--
	13. Paid Labour	5.03	--	3.08	--
14. Unpaid Labour	10.29	--	6.30	--	
<b>Variable Costs</b>	<b>31.84</b>	<b>0.00</b>	<b>19.50</b>	<b>0.00</b>	
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	1.93	--	1.18	--
	3. Equipment and Building: a) Depreciation	21.41	--	13.11	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	0.00	--	0.00	--	
<b>Capital Costs</b>	<b>23.33</b>	<b>0.00</b>	<b>14.29</b>	<b>0.00</b>	
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>23.47</b>	--	<b>14.37</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>55.17</b>	--	<b>33.79</b>	--
	<b>Gross Margin (A-D)</b>	<b>66.53</b>	--	<b>40.74</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>45.12</b>	--	<b>27.63</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>34.83</b>	--	<b>21.33</b>	--
	<b>Return to Equity (A-E)</b>	<b>34.83</b>	--	<b>21.33</b>	--

**Investment**

Buildings	83.41	--
Machinery	172.40	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>1455.81</b>	--

**Management**

Average Yield	(Tonne/acre)	1.63	--
Expected Market Price	(\$/Tonne)	55.12	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Greenfeed - All*  
**Soil Zone:** *Irrigated*  
**Unit:** *Tonne*

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	136.76	--	59.05	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	0.00	--	0.00	--
	<b>Gross Receipts</b>	<b>136.76</b>	<b>0.00</b>	<b>59.05</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	6.74	--	2.91	--
	2. Fertilizer	0.00	--	0.00	--
	3. Chemical	0.00	--	0.00	--
	4. Hail/Crop Insurance Premium	7.05	--	3.04	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	17.47	--	7.55	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	4.93	--	2.13	--
	9. Repairs - Buildings	0.00	--	0.00	--
	10. Utilities and Miscellaneous	8.15	--	3.52	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	0.00	--	0.00	--
	13. Paid Labour	5.49	--	2.37	--
14. Unpaid Labour	11.23	--	4.85	--	
	<b>Variable Costs</b>	<b>61.07</b>	<b>0.00</b>	<b>26.37</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	2.07	--	0.89	--
	3. Equipment and Building: a) Depreciation	23.35	--	10.08	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	0.00	--	0.00	--	
	<b>Capital Costs</b>	<b>25.41</b>	<b>0.00</b>	<b>10.97</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>51.90</b>	--	<b>22.41</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>86.48</b>	--	<b>37.34</b>	--
	<b>Gross Margin (A-D)</b>	<b>84.86</b>	--	<b>36.64</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>61.51</b>	--	<b>26.56</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>50.28</b>	--	<b>21.71</b>	--
	<b>Return to Equity (A-E)</b>	<b>50.28</b>	--	<b>21.71</b>	--

**Investment**

Buildings	90.98	--
Machinery	188.03	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>1479.01</b>	--

**Management**

Average Yield (Tonne/acre)	2.32	--
Expected Market Price (\$/Tonne)	59.05	--

## 2005 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** Greenfeed - Own  
**Soil Zone:** Irrigated  
**Unit:** Tonne

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	136.76	--	59.05	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	0.00	--	0.00	--
	<b>Gross Receipts</b>	<b>136.76</b>	<b>0.00</b>	<b>59.05</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	6.74	--	2.91	--
	2. Fertilizer	0.00	--	0.00	--
	3. Chemical	0.00	--	0.00	--
	4. Hail/Crop Insurance Premium	7.05	--	3.04	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	17.47	--	7.55	--
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--
	8. Repairs - Machinery	4.93	--	2.13	--
	9. Repairs - Buildings	0.00	--	0.00	--
	10. Utilities and Miscellaneous	8.15	--	3.52	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	0.00	--	0.00	--
	13. Paid Labour	5.49	--	2.37	--
14. Unpaid Labour	11.23	--	4.85	--	
	<b>Variable Costs</b>	<b>61.07</b>	<b>0.00</b>	<b>26.37</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	2.07	--	0.89	--
	3. Equipment and Building: a) Depreciation	23.35	--	10.08	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	0.00	--	0.00	--	
	<b>Capital Costs</b>	<b>25.41</b>	<b>0.00</b>	<b>10.97</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>51.90</b>	--	<b>22.41</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>86.48</b>	--	<b>37.34</b>	--
	<b>Gross Margin (A-D)</b>	<b>84.86</b>	--	<b>36.64</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>61.51</b>	--	<b>26.56</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>50.28</b>	--	<b>21.71</b>	--
	<b>Return to Equity (A-E)</b>	<b>50.28</b>	--	<b>21.71</b>	--

**Investment**

Buildings	90.98	--
Machinery	188.03	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>1479.01</b>	--

**Management**

Average Yield (Tonne/acre)	2.32	--
Expected Market Price (\$/Tonne)	59.05	--



## 2005 Crop Enterprise Analysis

*AgriProfit*®

**Crop:** Haylage - All  
**Soil Zone:** Irrigated - Stubble  
**Unit:** Tonne

		----- \$/Acre -----		----- \$/Tonne -----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	175.72	--	21.00	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	0.65	--	0.08	--	
	<b>Gross Receipts</b>	<b>176.37</b>	<b>0.00</b>	<b>21.08</b>	<b>0.00</b>	
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	4.45	--	0.53	--	
	2. Fertilizer	23.89	--	2.85	--	
	3. Chemical	2.15	--	0.26	--	
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--	
	5. Trucking and Marketing	0.00	--	0.00	--	
	6. Fuel	16.27	--	1.94	--	
	7. Irrigation Fuel and Electricity	21.68	--	2.59	--	
	8. Repairs - Machinery	13.53	--	1.62	--	
	9. Repairs - Buildings	2.86	--	0.34	--	
	10. Utilities and Miscellaneous	10.83	--	1.29	--	
	11. Custom Work	1.35	--	0.16	--	
	12. Operating Interest Paid	4.08	--	0.49	--	
	13. Paid Labour	8.21	--	0.98	--	
	14. Unpaid Labour	17.25	--	2.06	--	
<b>Variable Costs</b>	<b>126.54</b>	<b>0.00</b>	<b>15.12</b>	<b>0.00</b>		
<b>(C)</b>	1. Cash/ Share Land Rent	45.96	--	5.49	--	
	2. Taxes, Water Rates, License & Ins.	15.52	--	1.85	--	
	3. Equipment and Building:	a) Depreciation	39.10	--	4.67	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	24.48	--	2.93	--	
<b>Capital Costs</b>	<b>125.07</b>	<b>0.00</b>	<b>14.95</b>	<b>0.00</b>		
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>195.25</b>	--	<b>23.33</b>	--	
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>251.60</b>	--	<b>30.07</b>	--	
	<b>Gross Margin (A-D)</b>	<b>(18.88)</b>	--	<b>(2.26)</b>	--	
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>(57.98)</b>	--	<b>(6.93)</b>	--	
	<b>Return to Investment (A-E+C4)</b>	<b>(50.75)</b>	--	<b>(6.06)</b>	--	
	<b>Return to Equity (A-E)</b>	<b>(75.23)</b>	--	<b>(8.99)</b>	--	

### Investment

Buildings	49.88	--
Machinery	187.45	--
Irrigation Machinery	207.37	--
<b>Total (incl. Land)</b>	<b>1310.07</b>	--

### Management

Average Yield	(Tonne/acre)	8.37	--
Expected Market Price	(\$/Tonne)	21.00	--

## 2005 Crop Enterprise Analysis

*AgriProfit*®

**Crop:** Haylage - Rent  
**Soil Zone:** Irrigated - Stubble  
**Unit:** Tonne

		----- \$/Acre -----		----- \$/Tonne -----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	155.87	--	21.00	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	0.87	--	0.12	--	
	<b>Gross Receipts</b>	<b>156.73</b>	<b>0.00</b>	<b>21.12</b>	<b>0.00</b>	
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	0.00	--	0.00	--	
	2. Fertilizer	33.57	--	4.52	--	
	3. Chemical	3.03	--	0.41	--	
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--	
	5. Trucking and Marketing	0.00	--	0.00	--	
	6. Fuel	16.15	--	2.18	--	
	7. Irrigation Fuel and Electricity	20.47	--	2.76	--	
	8. Repairs - Machinery	13.67	--	1.84	--	
	9. Repairs - Buildings	2.96	--	0.40	--	
	10. Utilities and Miscellaneous	12.09	--	1.63	--	
	11. Custom Work	1.89	--	0.25	--	
	12. Operating Interest Paid	3.58	--	0.48	--	
	13. Paid Labour	7.49	--	1.01	--	
	14. Unpaid Labour	18.99	--	2.56	--	
<b>Variable Costs</b>	<b>133.89</b>	<b>0.00</b>	<b>18.04</b>	<b>0.00</b>		
<b>(C)</b>	1. Cash/ Share Land Rent	64.60	--	8.70	--	
	2. Taxes, Water Rates, License & Ins.	7.69	--	1.04	--	
	3. Equipment and Building:	a) Depreciation	20.79	--	2.80	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	3.61	--	0.49	--	
<b>Capital Costs</b>	<b>96.68</b>	<b>0.00</b>	<b>13.03</b>	<b>0.00</b>		
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>190.80</b>	--	<b>25.71</b>	--	
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>230.58</b>	--	<b>31.07</b>	--	
	<b>Gross Margin (A-D)</b>	<b>(34.07)</b>	--	<b>(4.59)</b>	--	
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>(54.86)</b>	--	<b>(7.39)</b>	--	
	<b>Return to Investment (A-E+C4)</b>	<b>(70.23)</b>	--	<b>(9.46)</b>	--	
	<b>Return to Equity (A-E)</b>	<b>(73.84)</b>	--	<b>(9.95)</b>	--	

**Investment**

Buildings	46.94	--
Machinery	179.08	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>226.02</b>	--

**Management**

Average Yield (Tonne/acre)	7.42	--
Expected Market Price (\$/Tonne)	21.00	--

## FREQUENCY AND CUMULATIVE FREQUENCY DISTRIBUTION

Distribution charts organize data into pictures, which is a format that the human processing system (the brain) can better understand. 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. 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 feed barley frequency distribution charts are used as an example of how to interpret the frequency information.

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

- The low is less than 50 bushels per acre and the high is greater than 120 bushels per acre, and
- 90% of the feed barley fields in the irrigated soil zones yield between 40 and 95 bushels per acre

This detailed information provides a better understanding of yield variability. The average yield on stubble is 106 bushels per acre provided on the feed barley 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, relating 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 feed barley was \$3 per bushel, then 90% of the fields are covering their cash costs and 50% 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.

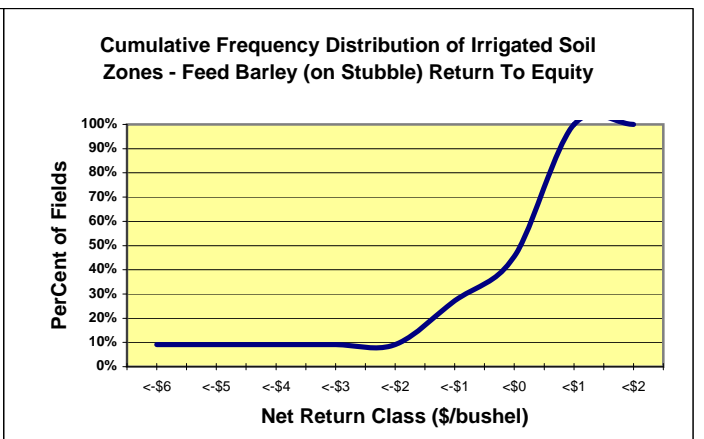
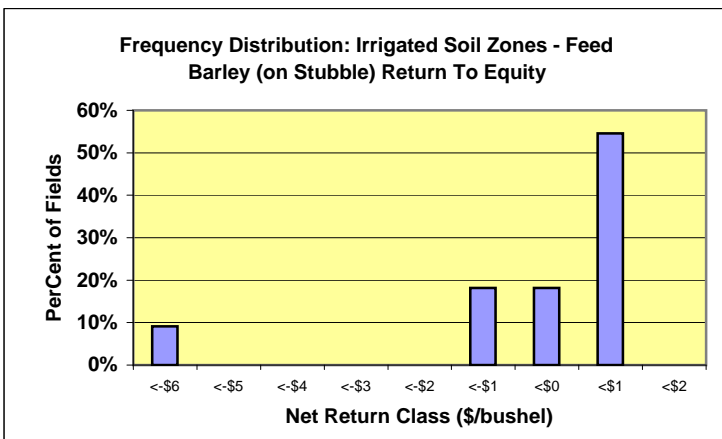
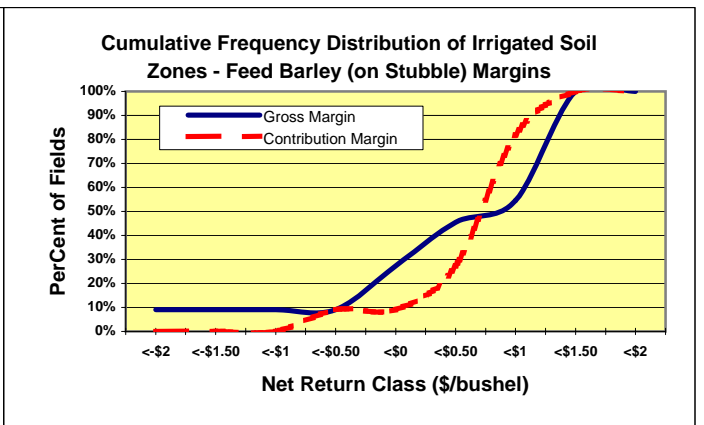
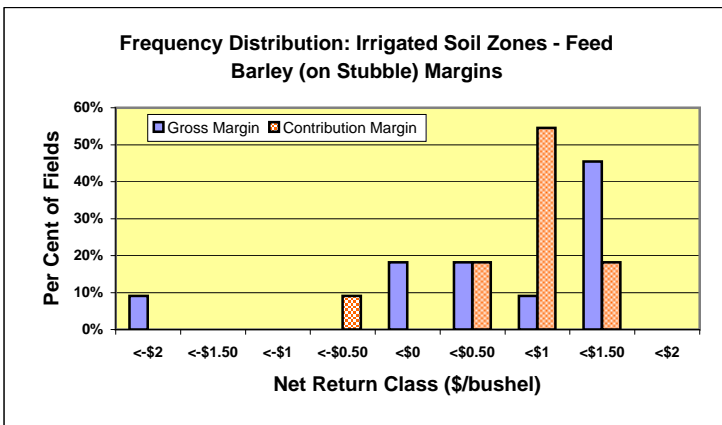
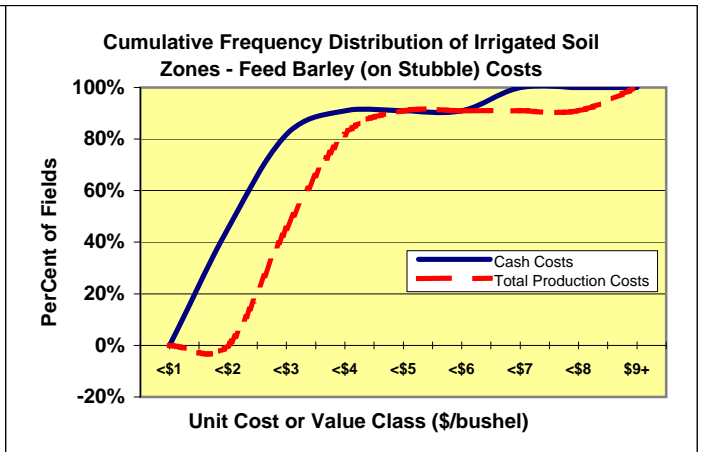
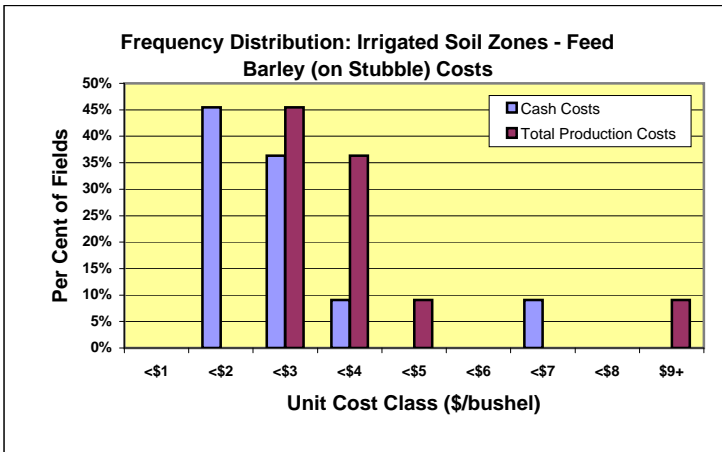
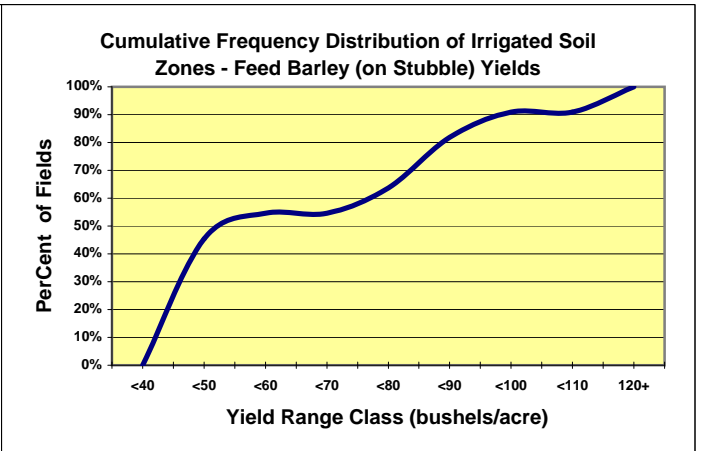
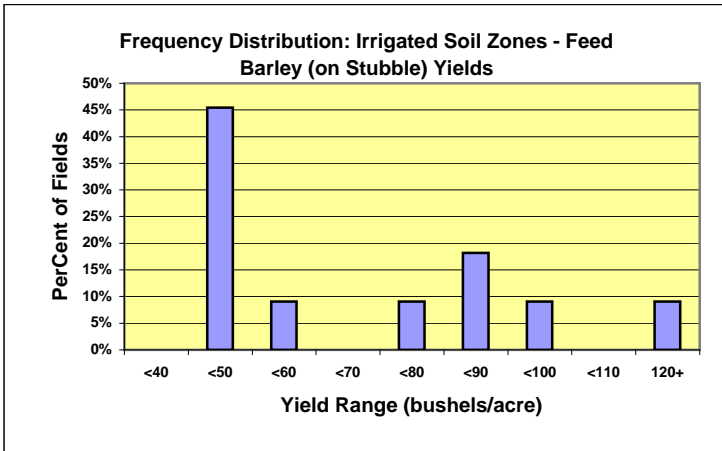
The third set of graphs highlights contribution and gross margins. Contribution margin is the return over variable costs, which are a combination of variable cash and non-cash (unpaid labour) costs. It is the best single indicator of profitability at the individual field level and it is used to compare 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.

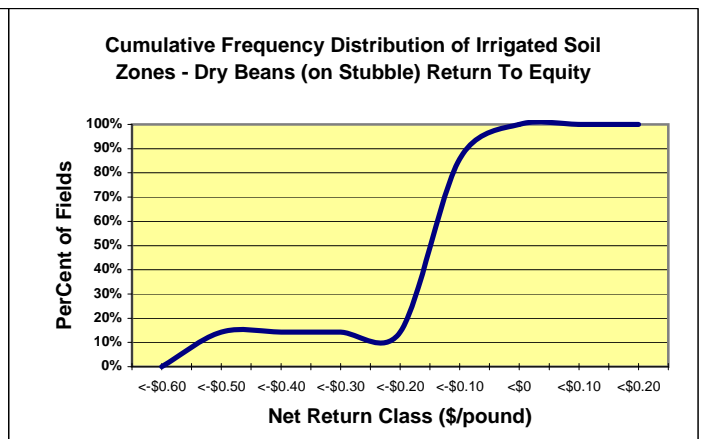
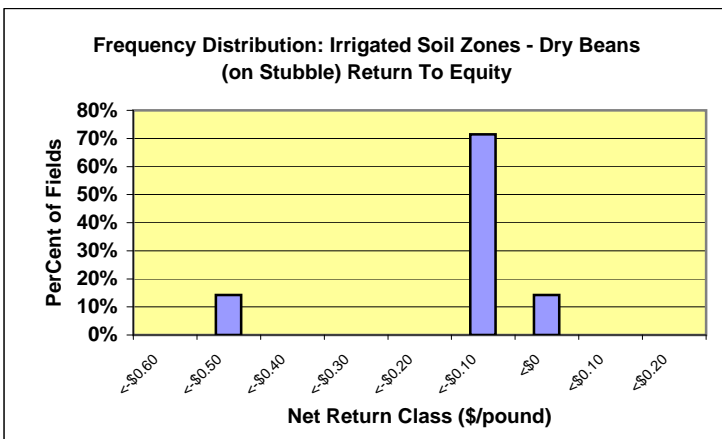
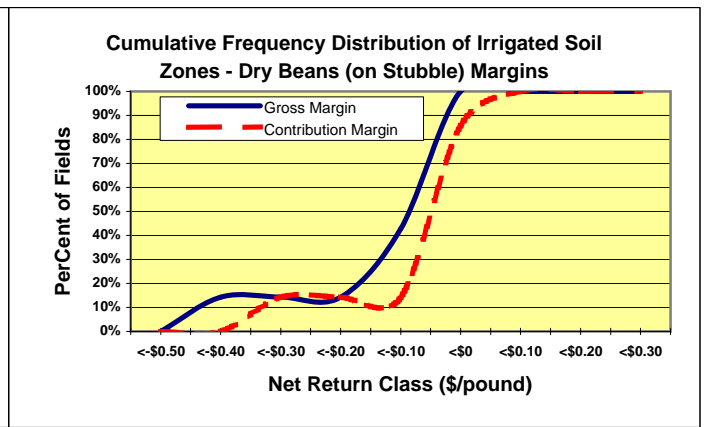
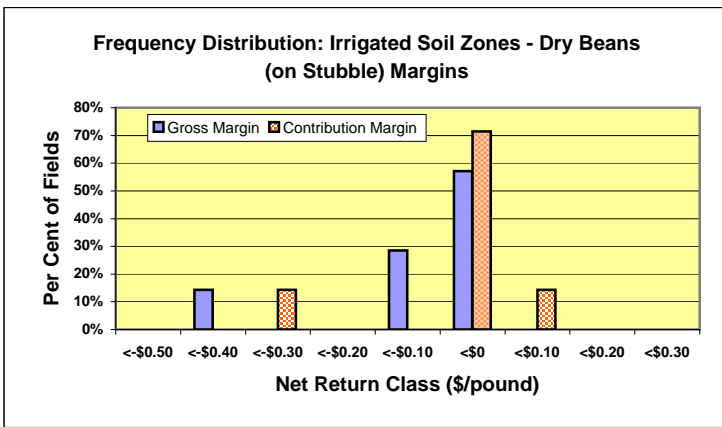
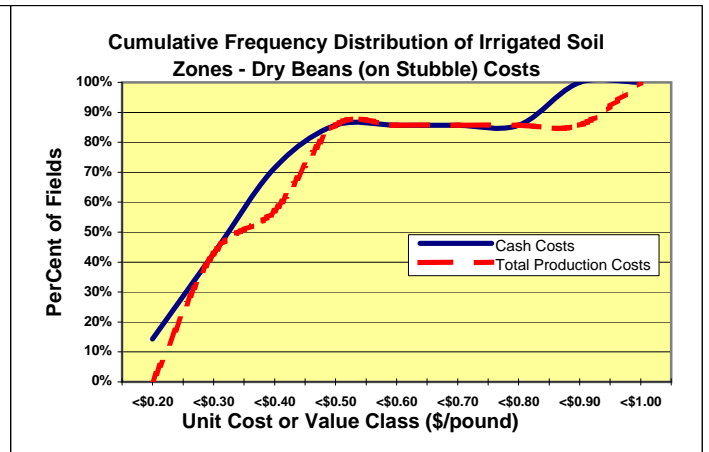
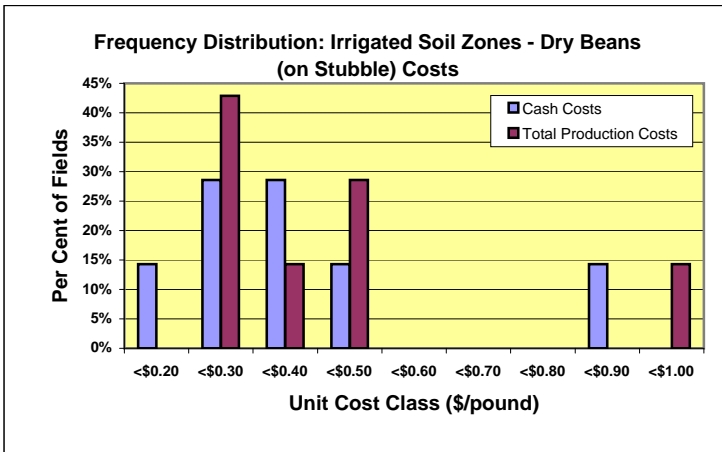
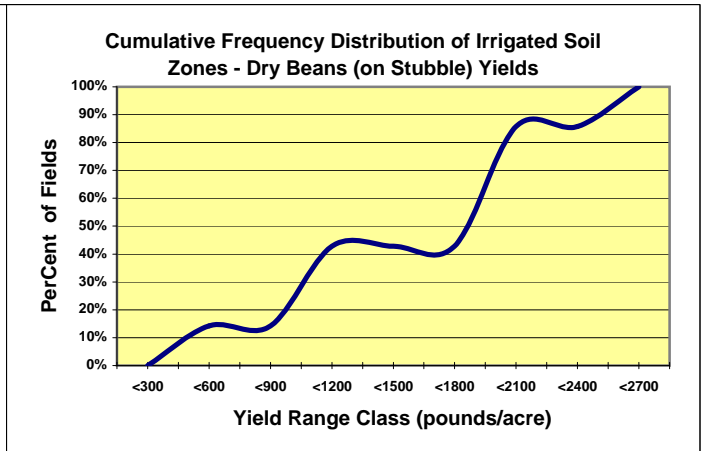
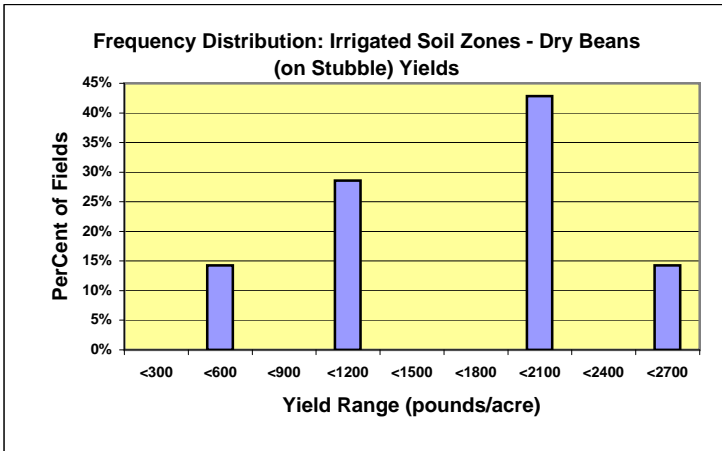
The final set of graphs shows the distribution of returns to equity, or profit per unit of production. This example shows that 40% of the fields had a loss and 60% of the fields at least broke even. Return to equity can be used to compare the profitability of one crop versus another or one farm enterprise 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 Food (AF) 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.

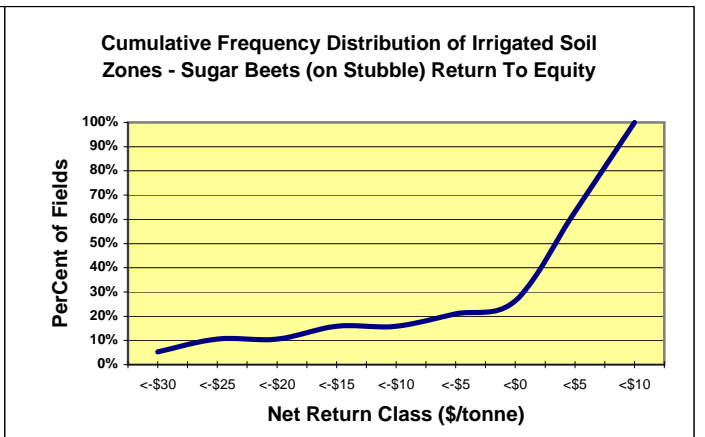
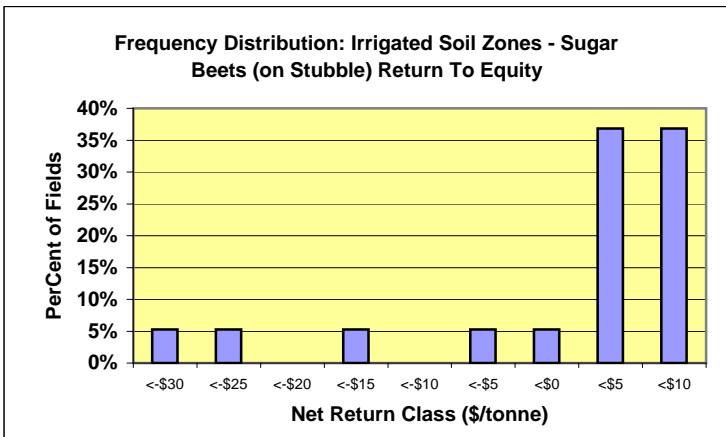
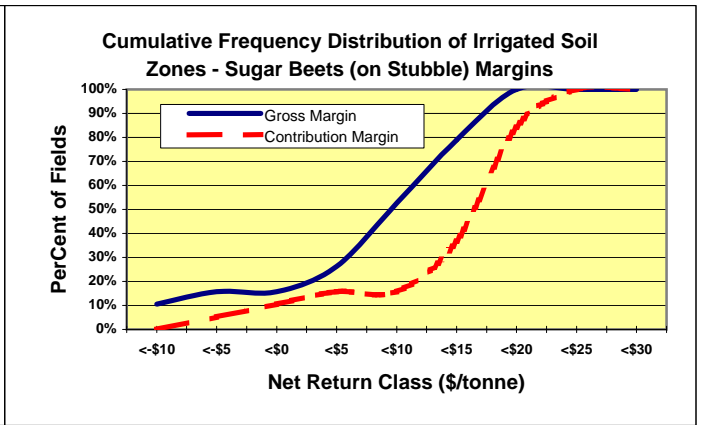
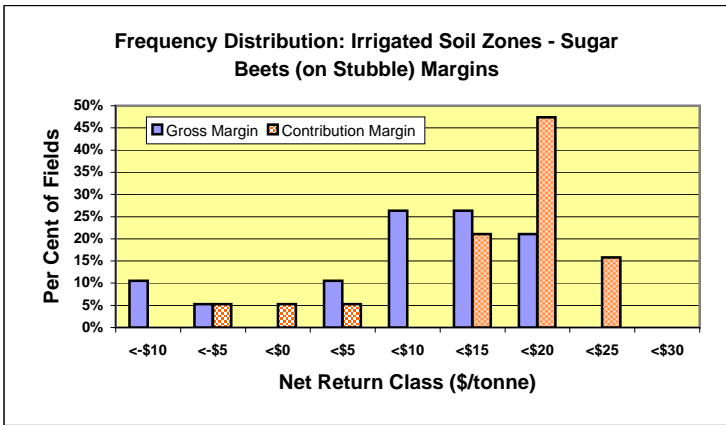
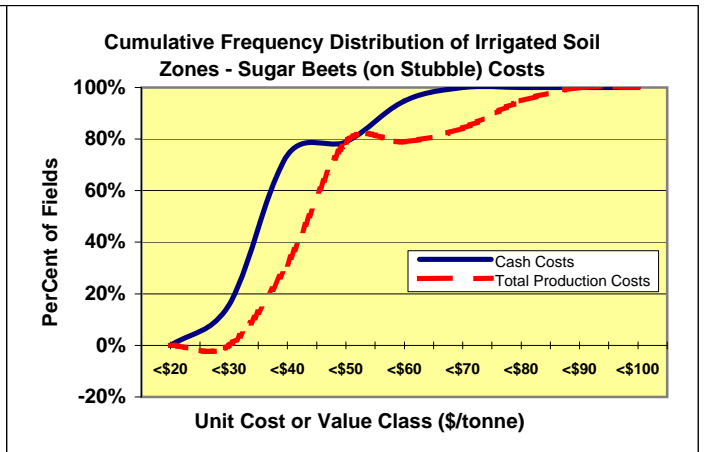
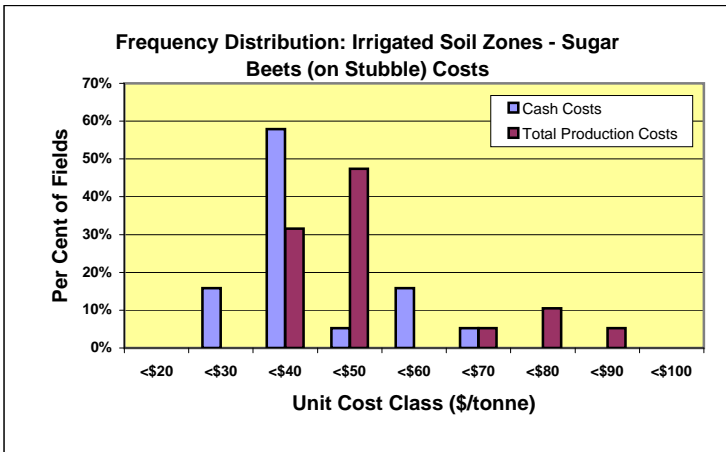
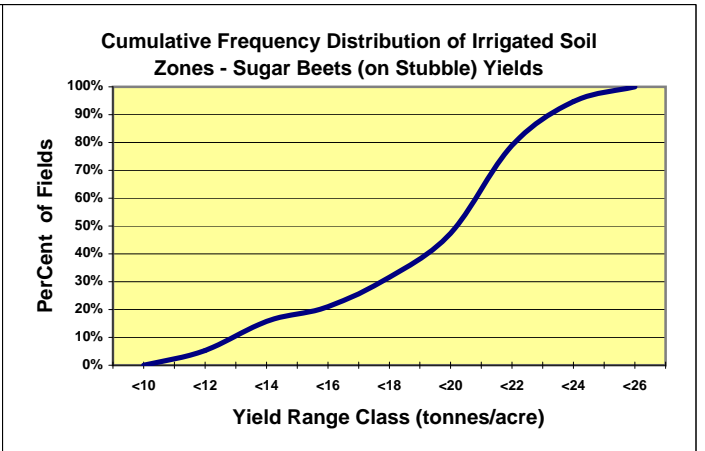
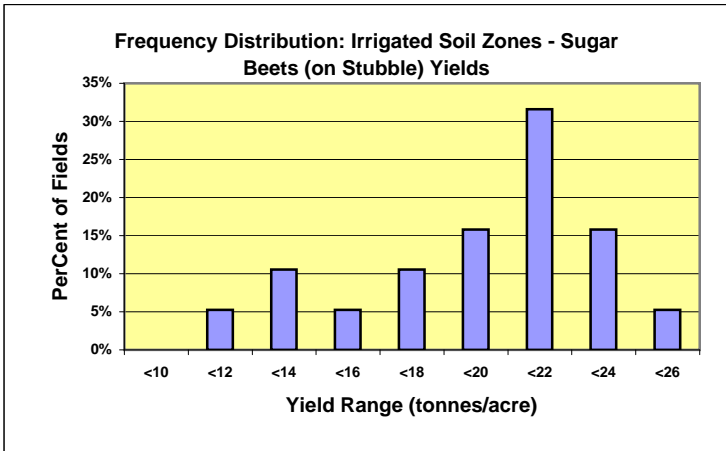
# Irrigated Soil Zones - Feed Barley (on Stubble): 2005



# Irrigated Soil Zones - Dry Beans (on Stubble): 2005



# Irrigated Soil Zones - Sugar Beets (on Stubble): 2005



**DEFINITIONS AND ALLOCATIONS**

**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