

*AgriProfit\$*

**Cost and Return Profiles for  
Selected Crops, 2004  
*Irrigated Crops***

April, 2006

**Alberta**  
AGRICULTURE, FOOD AND  
RURAL DEVELOPMENT



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## OVERVIEW

### 2004 Irrigated Soil Zone

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 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 zone. 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 area of Alberta. In the case of irrigation, only farms in southern Alberta are included in the sample.

The map on the lower right highlights the locations of participating farmers for the 2004 survey season.

For questions regarding this document please contact:

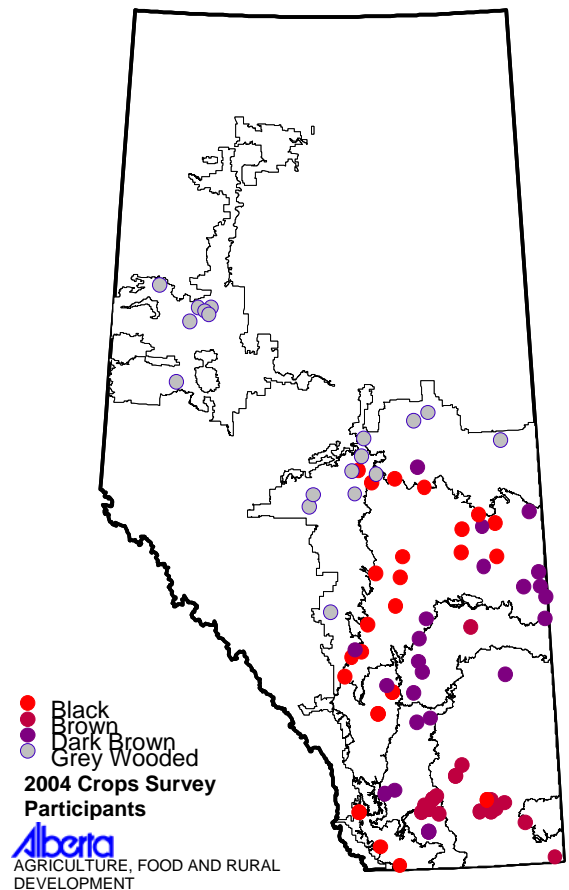
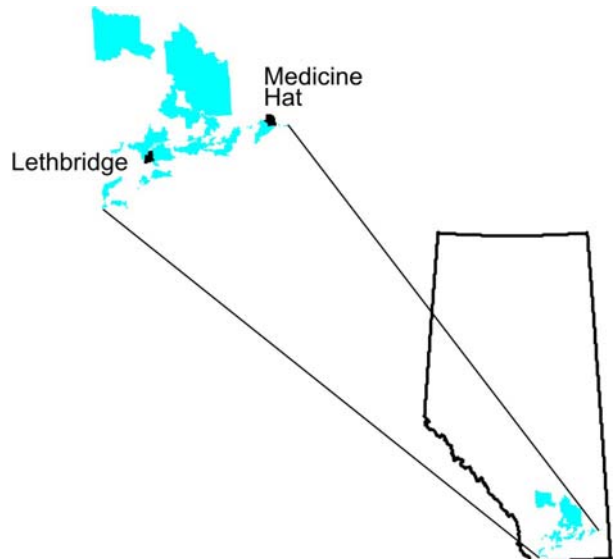
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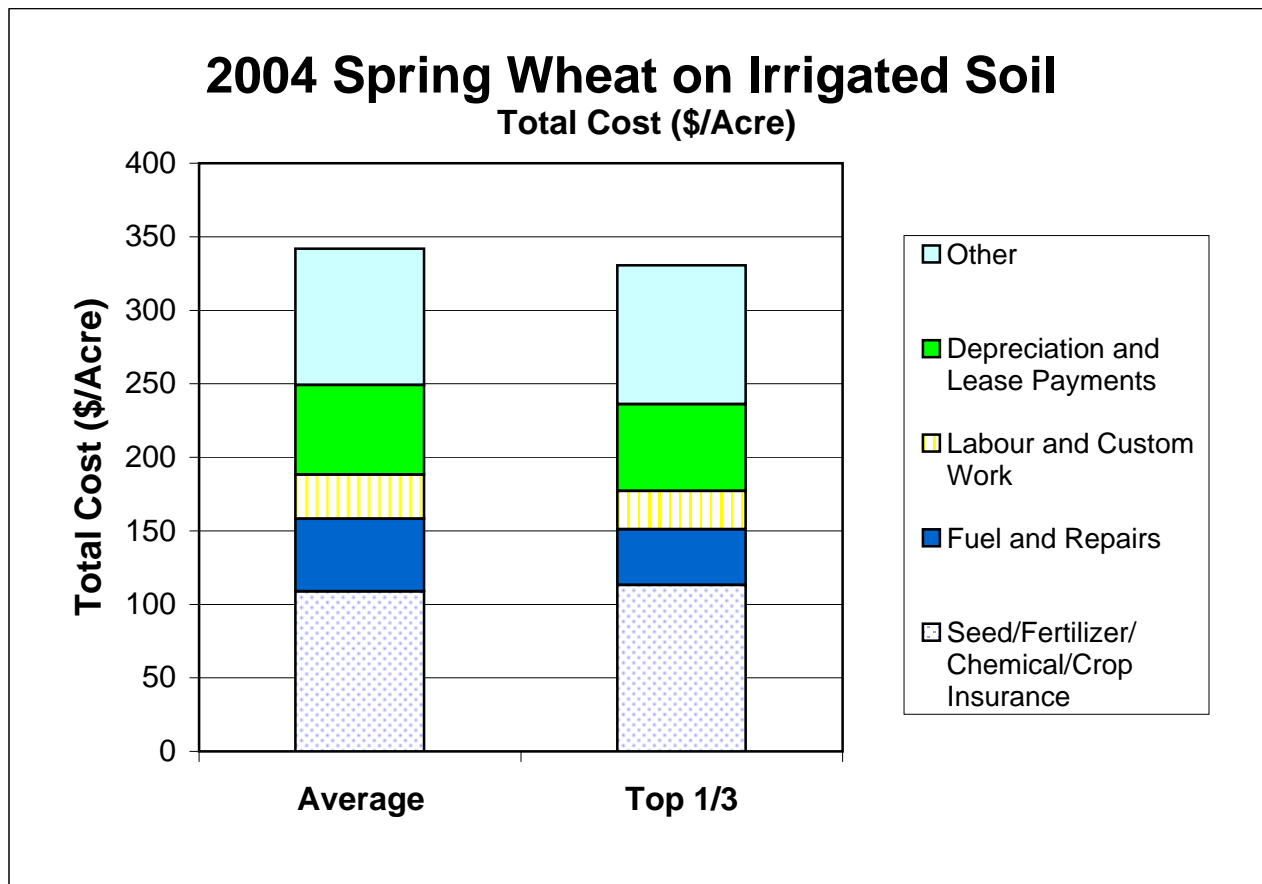
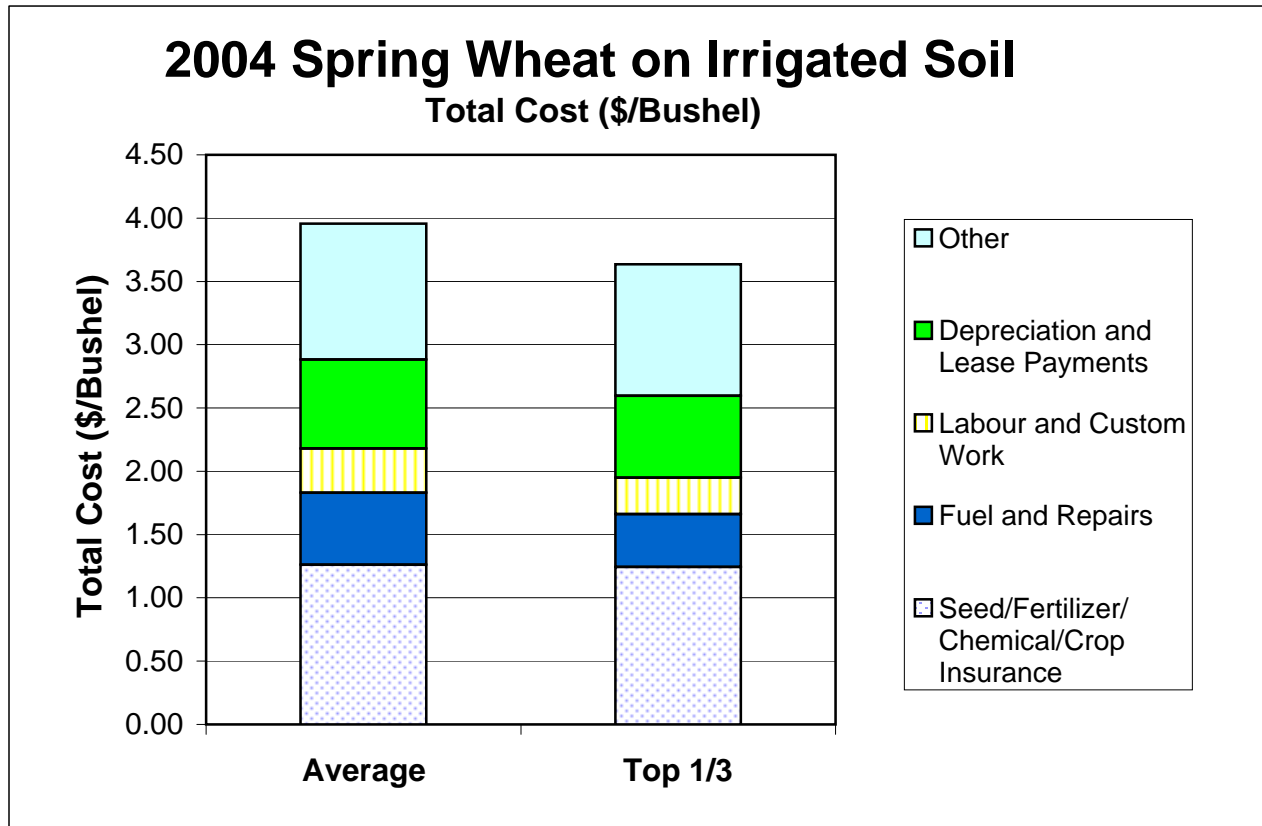
OR

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1-866-882-7677

#### Acknowledgements:

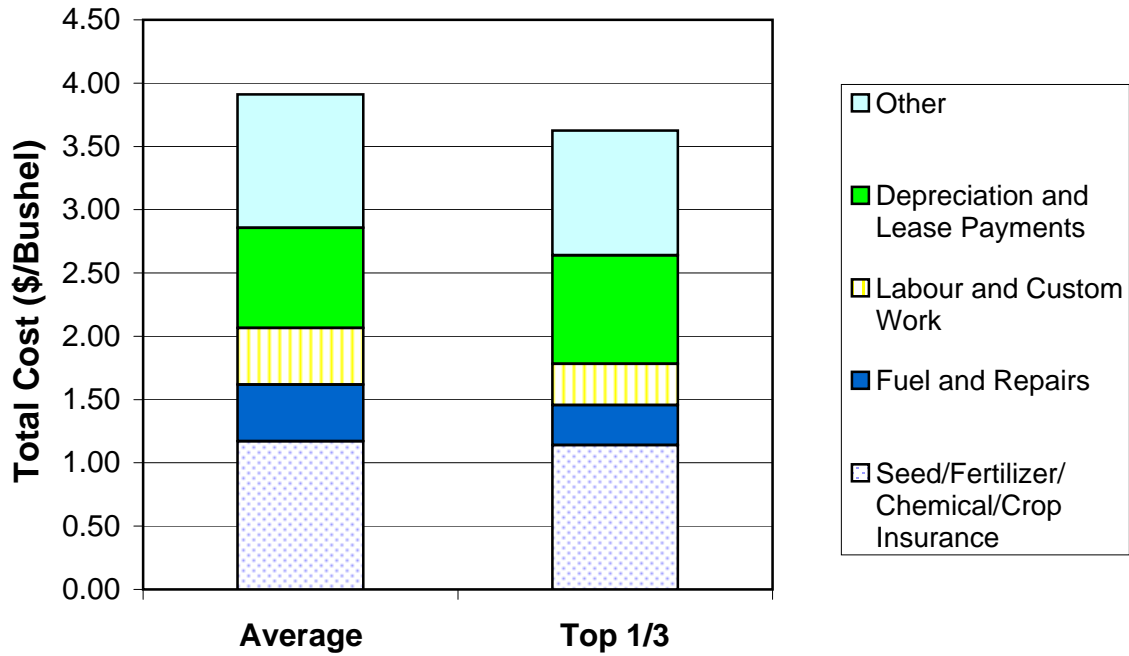
Karla Bergstrom, Dale Kaliel, Pauline Van Biert, Shukun Guan, Owen Nelsen, Guangzhi Liu, Nabi Chaudhary, Interviewers and Participants





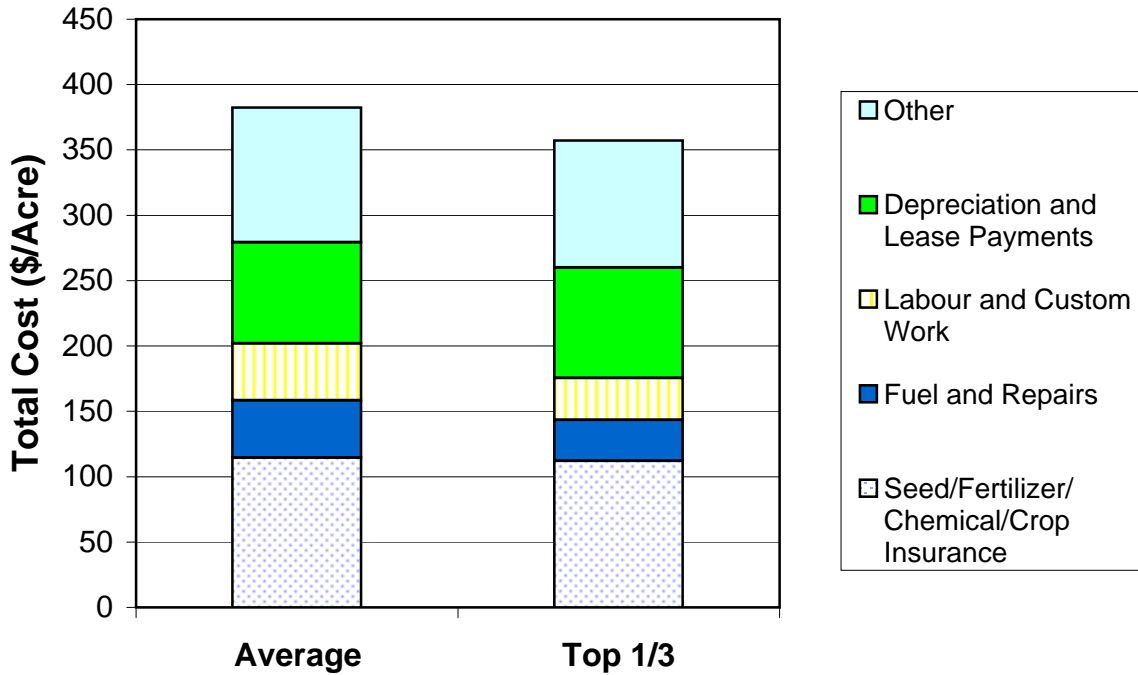
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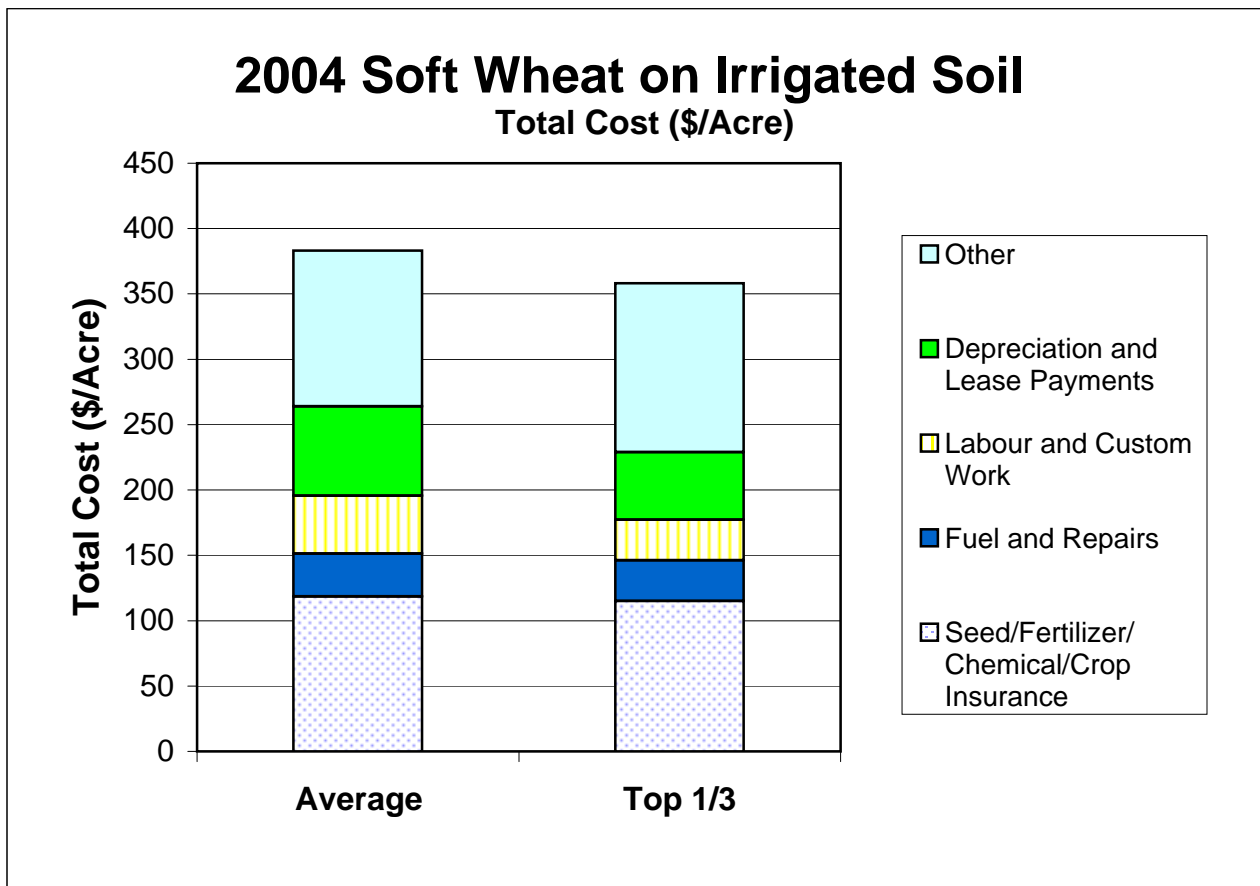
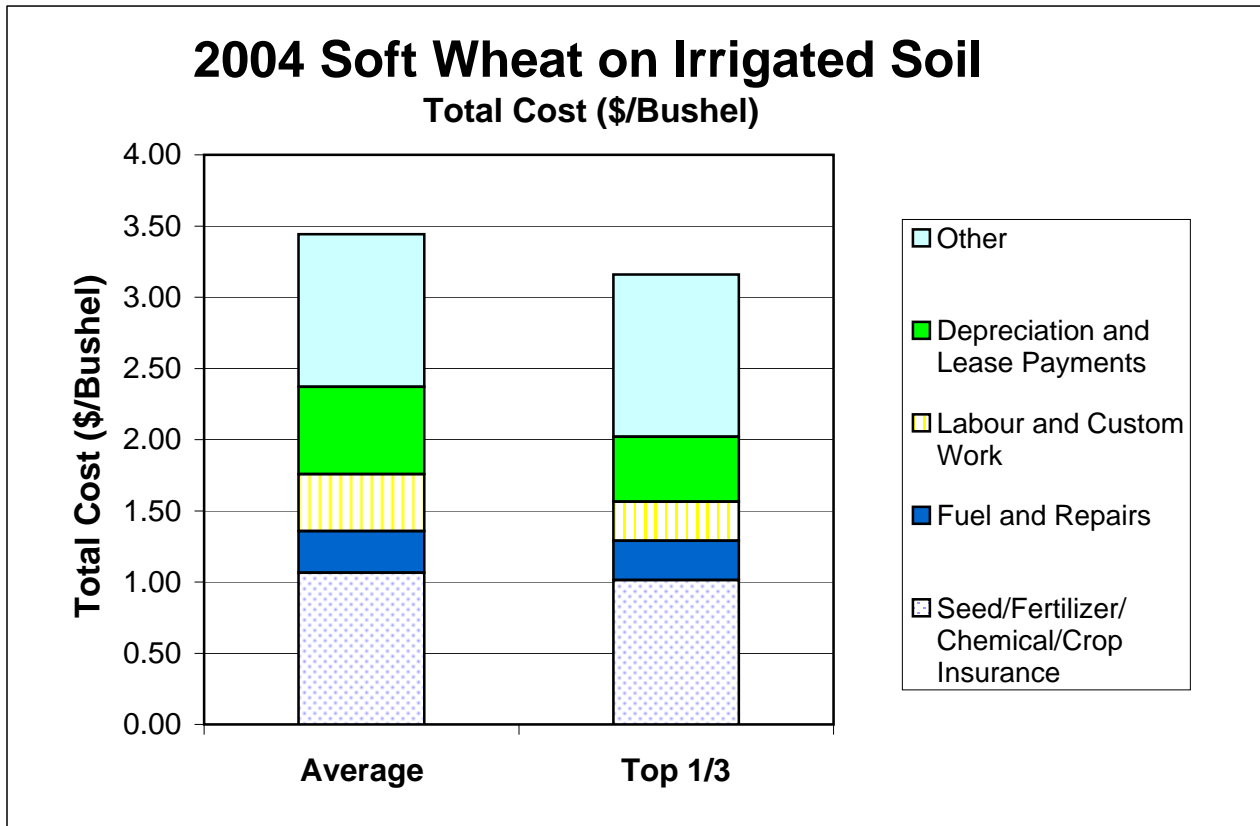
Total Cost (\$/Bushel)



## 2004 Durum on Irrigated Soil

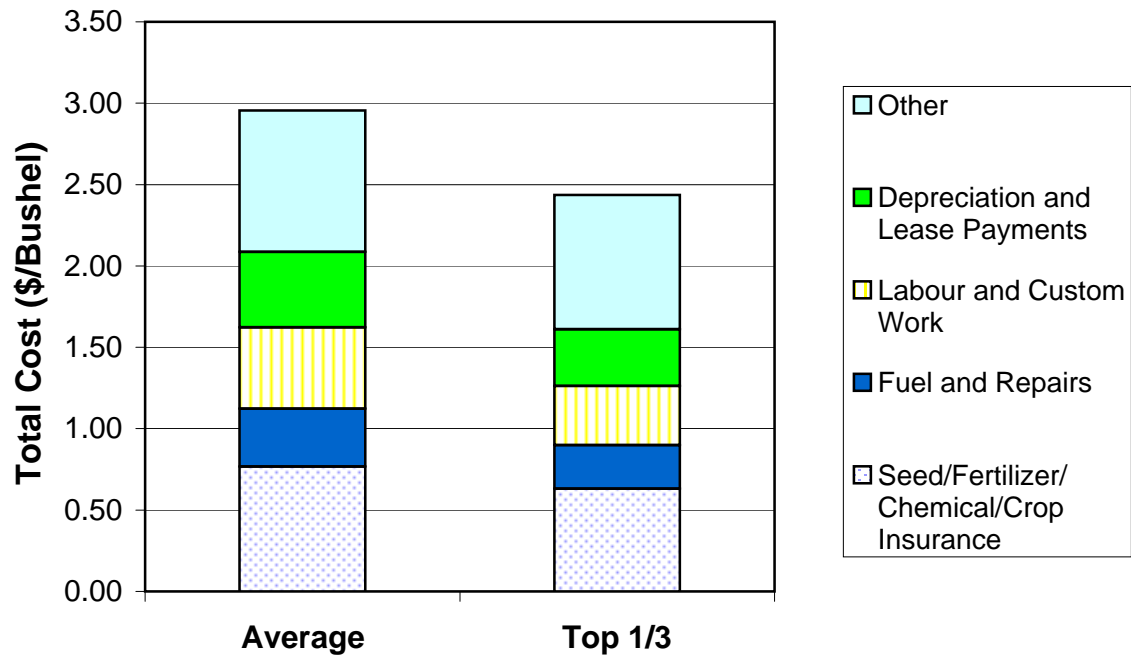
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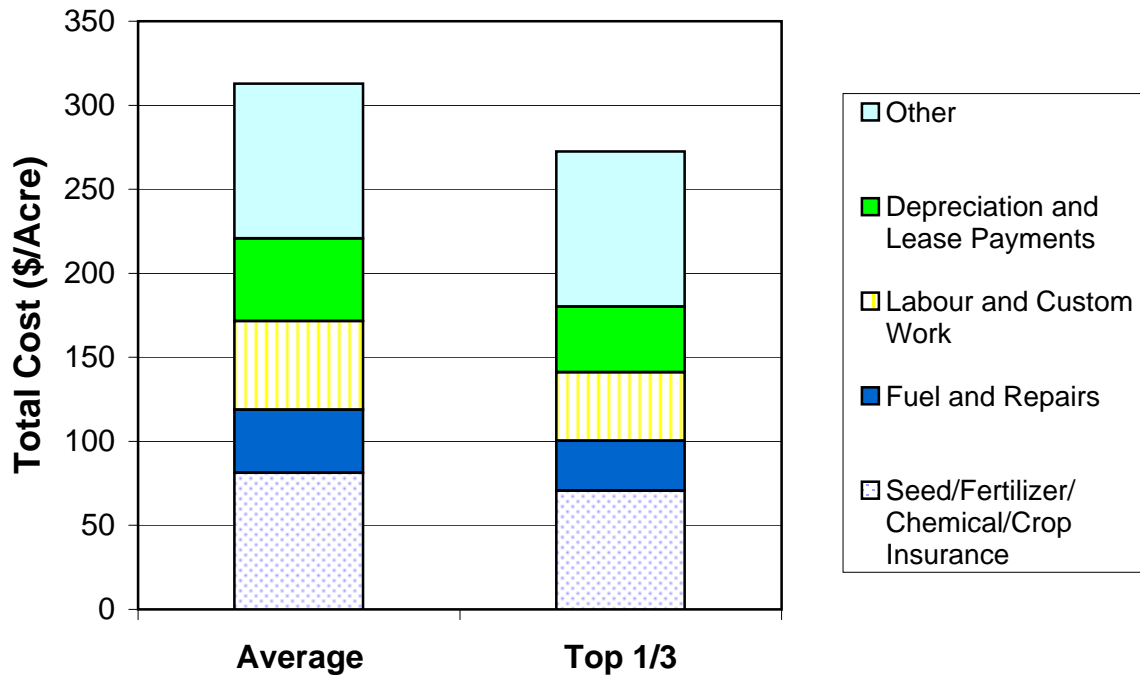
## 2004 Feed Barley on Irrigated Soil

Total Cost (\$/Bushel)



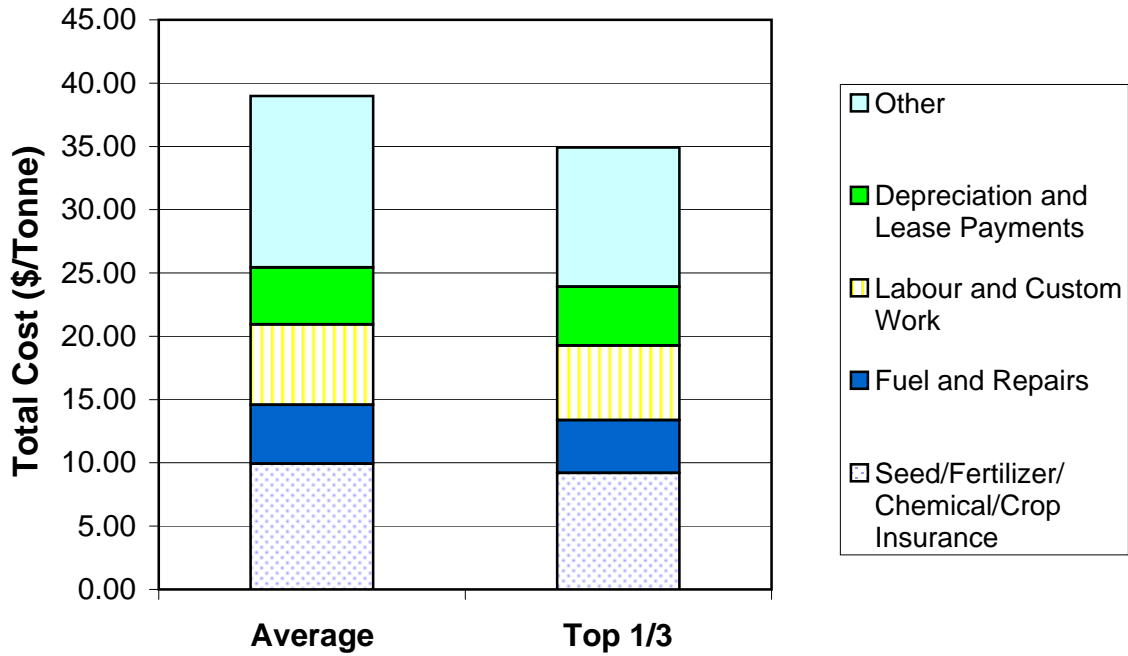
## 2004 Feed Barley on Irrigated Soil

Total Cost (\$/Acre)



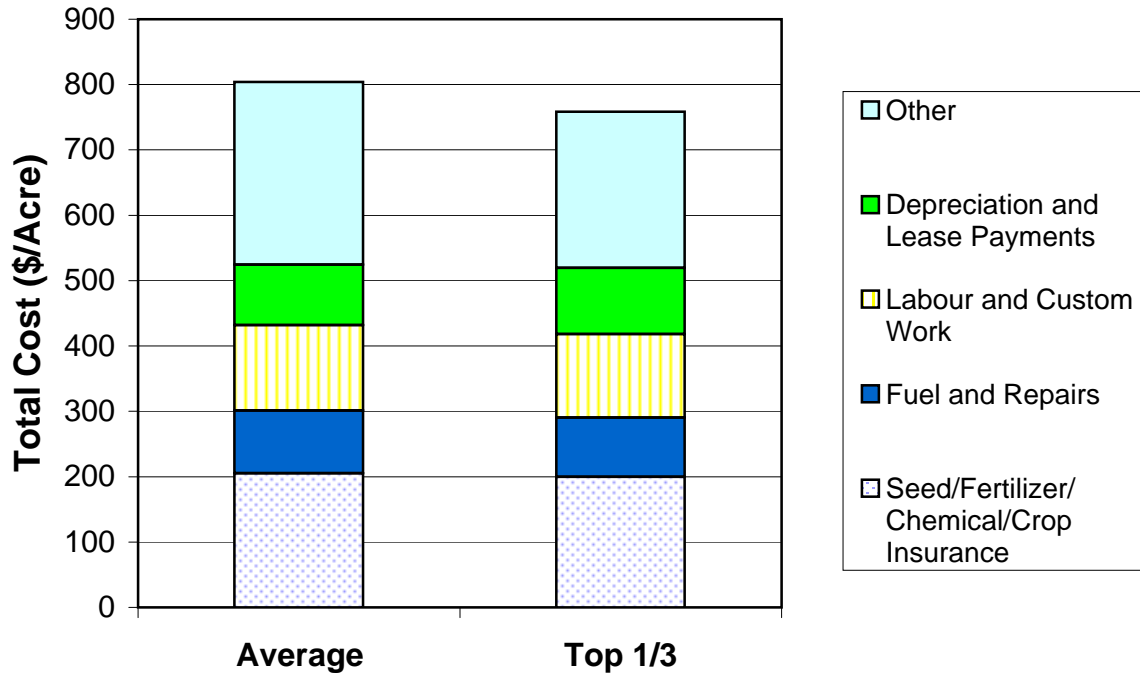
## 2004 Sugar Beets on Irrigated Soil

Total Cost (\$/Tonne)



## 2004 Sugar Beets on Irrigated Soil

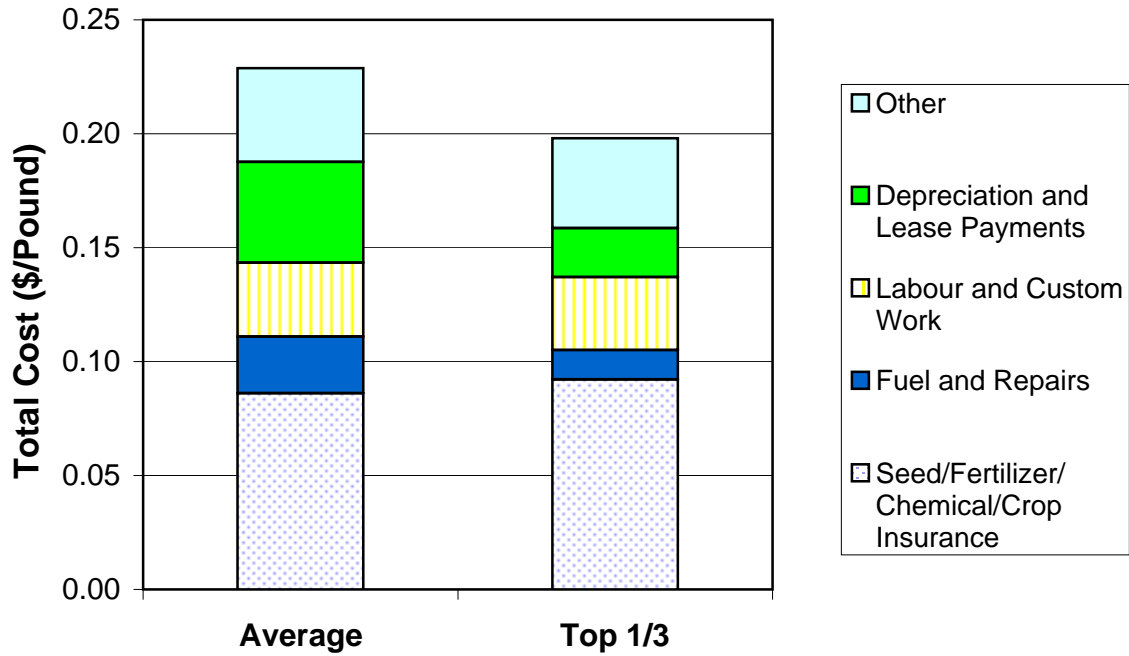
Total Cost (\$/Acre)





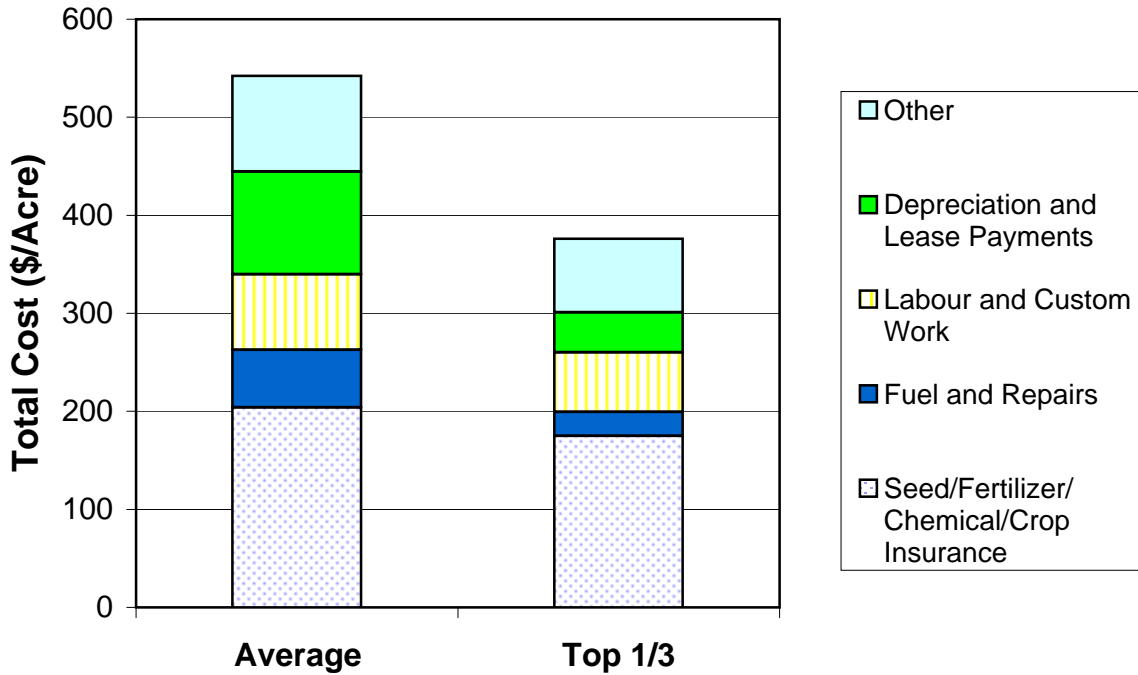
## 2004 Dry Beans on Irrigated Soil

Total Cost (\$/Pound)



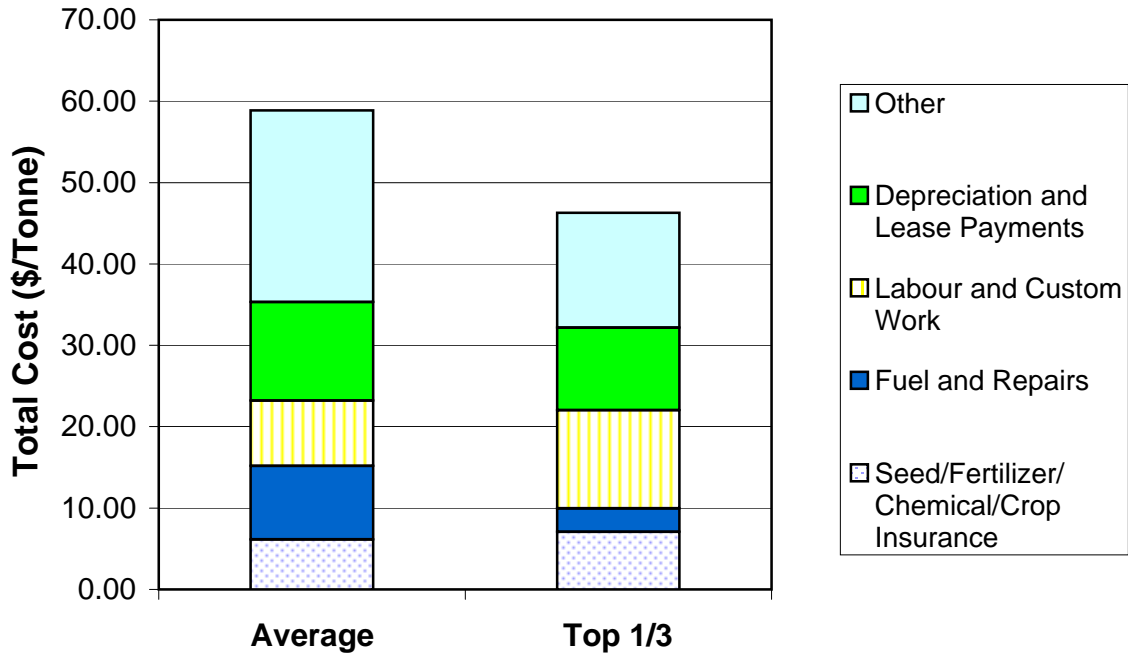
## 2004 Dry Beans on Irrigated Soil

Total Cost (\$/Acre)



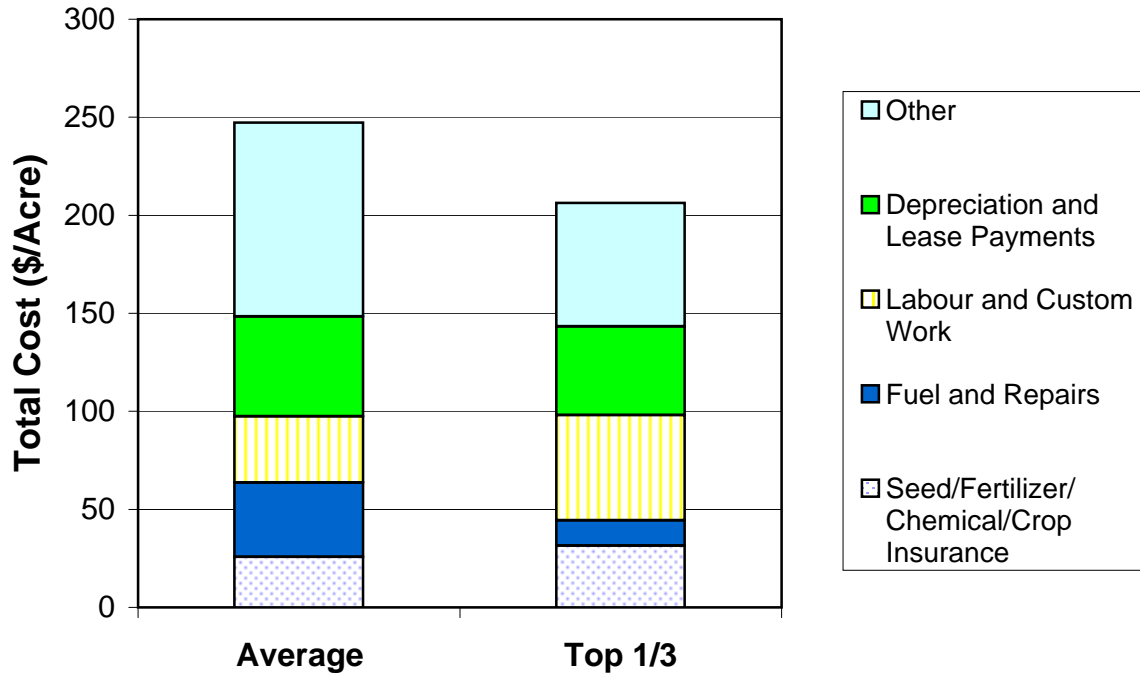
## 2004 Alfalfa Hay on Irrigated Soil

Total Cost (\$/Tonne)



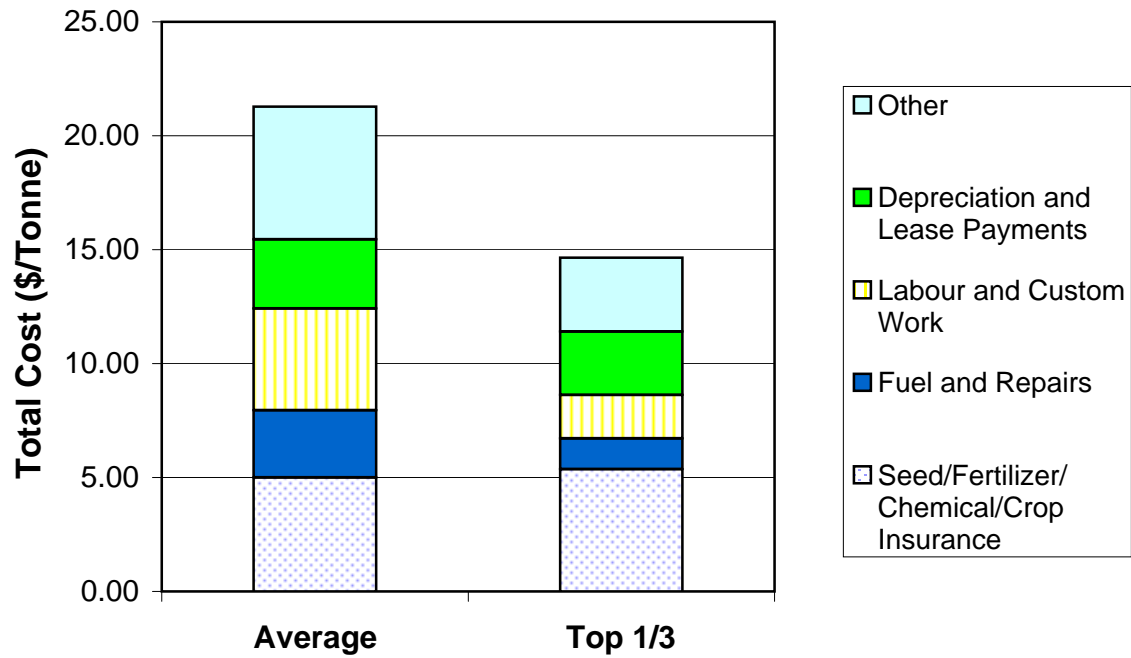
## 2004 Alfalfa Hay on Irrigated Soil

Total Cost (\$/Acre)



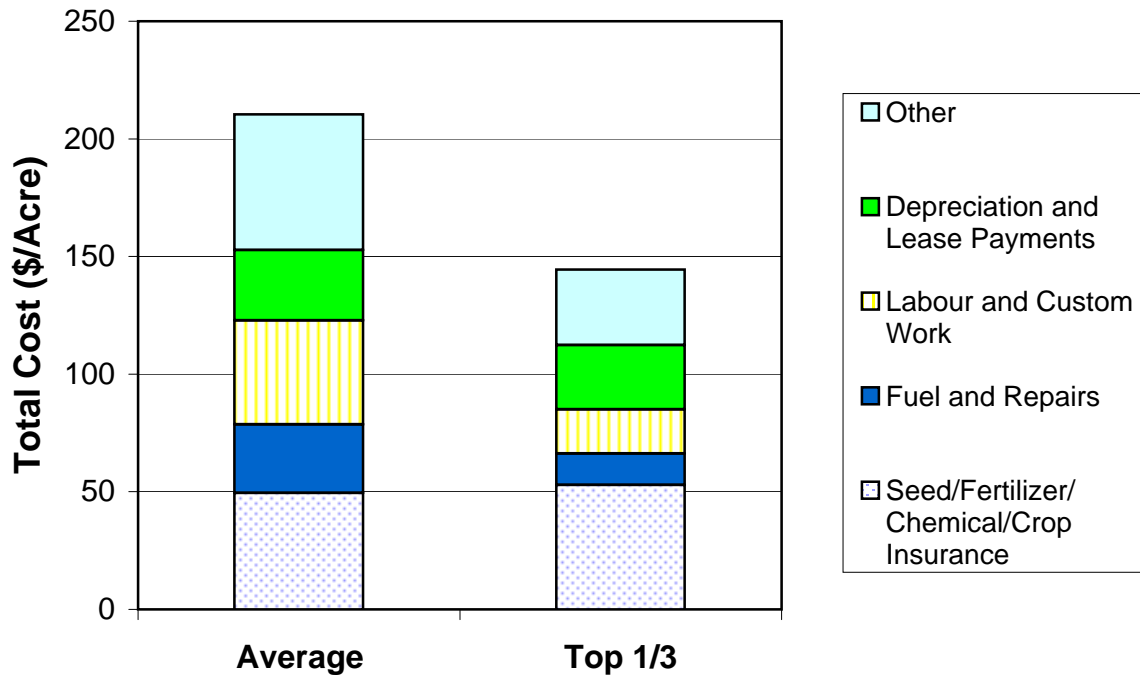
## 2004 Grain Silage on Irrigated Soil

Total Cost (\$/Tonne)



## 2004 Grain Silage on Irrigated Soil

Total Cost (\$/Acre)



## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Bushel -----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	393.70	487.67	4.56	5.36	
	2. Crop Insurance Receipts	92.12	167.37	1.07	1.84	
	3. Other Receipts	31.53	26.30	0.36	0.29	
	<b>Gross Receipts</b>	<b>517.35</b>	<b>681.34</b>	<b>5.99</b>	<b>7.49</b>	
<hr/>						
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	12.65	14.55	0.15	0.16	
	2. Fertilizer	60.65	61.72	0.70	0.68	
	3. Chemical	28.15	28.22	0.33	0.31	
	4. Hail/Crop Insurance Premium	7.46	8.67	0.09	0.10	
	5. Trucking and Marketing	2.18	3.49	0.03	0.04	
	6. Fuel	19.71	17.47	0.23	0.19	
	7. Irrigation Fuel and Electricity	20.79	27.08	0.24	0.30	
	8. Repairs - Machinery	28.96	19.46	0.34	0.21	
	9. Repairs - Buildings	0.54	0.87	0.01	0.01	
	10. Utilities and Miscellaneous	16.49	17.31	0.19	0.19	
	11. Custom Work	3.85	2.39	0.04	0.03	
	12. Operating Interest Paid	4.92	5.72	0.06	0.06	
	13. Paid Labour	7.10	2.88	0.08	0.03	
	14. Unpaid Labour	19.17	21.03	0.22	0.23	
	<b>Variable Costs</b>	<b>232.62</b>	<b>230.84</b>	<b>2.69</b>	<b>2.54</b>	
<hr/>						
<b>(C)</b>	1. Cash/ Share Land Rent	13.33	0.00	0.15	0.00	
	2. Taxes, Water Rates, License & Ins.	25.29	32.14	0.29	0.35	
	3. Equipment and Building:	a) Depreciation	60.84	58.92	0.70	0.65
		b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	9.84	8.72	0.11	1.10	
	<b>Capital Costs</b>	<b>109.30</b>	<b>99.78</b>	<b>1.26</b>	<b>2.10</b>	
<hr/>						
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>261.91</b>	<b>250.66</b>	<b>3.03</b>	<b>3.76</b>	
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>341.92</b>	<b>330.62</b>	<b>3.96</b>	<b>4.64</b>	
	<b>Gross Margin (A-D)</b>	<b>255.43</b>	<b>430.68</b>	<b>2.96</b>	<b>3.73</b>	
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>194.60</b>	<b>371.75</b>	<b>2.25</b>	<b>3.09</b>	
	<b>Return to Investment (A-E+C4)</b>	<b>185.27</b>	<b>359.44</b>	<b>2.14</b>	<b>3.95</b>	
	<b>Return to Equity (A-E)</b>	<b>175.43</b>	<b>350.72</b>	<b>2.03</b>	<b>2.86</b>	

**Investment**

Buildings	102.74	99.37
Machinery	395.65	403.80
Irrigation Machinery	243.71	218.14
<b>Total (incl. Land)</b>	<b>2933.28</b>	<b>3315.06</b>

**Management**

Average Yield (Bushel/acre)	86.41	90.94
Expected Market Price (\$/Bushel)	4.56	5.36

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	401.85	494.10	4.63	5.49
	2. Crop Insurance Receipts	101.57	183.81	1.17	2.04
	3. Other Receipts	33.89	16.64	0.39	0.18
	<b>Gross Receipts</b>	<b>537.31</b>	<b>694.55</b>	<b>6.19</b>	<b>7.72</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	12.61	15.00	0.15	0.17
	2. Fertilizer	60.84	65.00	0.70	0.72
	3. Chemical	28.61	27.00	0.33	0.30
	4. Hail/Crop Insurance Premium	7.78	8.30	0.09	0.09
	5. Trucking and Marketing	2.28	3.62	0.03	0.04
	6. Fuel	19.32	16.48	0.22	0.18
	7. Irrigation Fuel and Electricity	21.37	28.02	0.25	0.31
	8. Repairs - Machinery	30.32	10.39	0.35	0.12
	9. Repairs - Buildings	0.55	1.07	0.01	0.01
	10. Utilities and Miscellaneous	17.19	16.80	0.20	0.19
	11. Custom Work	4.46	0.00	0.05	0.00
	12. Operating Interest Paid	4.65	7.04	0.05	0.08
	13. Paid Labour	7.85	0.00	0.09	0.00
	14. Unpaid Labour	19.36	20.82	0.22	0.23
	<b>Variable Costs</b>	<b>237.19</b>	<b>219.53</b>	<b>2.73</b>	<b>2.44</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00
	2. Taxes, Water Rates, License & Ins.	28.04	32.57	0.32	0.36
	3. Equipment and Building: a) Depreciation	64.14	57.55	0.74	0.64
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	10.93	10.73	0.13	1.12
	<b>Capital Costs</b>	<b>103.12</b>	<b>100.85</b>	<b>1.19</b>	<b>2.12</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>256.80</b>	<b>242.02</b>	<b>2.96</b>	<b>3.69</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>340.31</b>	<b>320.39</b>	<b>3.92</b>	<b>4.56</b>
	<b>Gross Margin (A-D)</b>	<b>280.50</b>	<b>452.53</b>	<b>3.23</b>	<b>4.03</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>216.36</b>	<b>394.98</b>	<b>2.49</b>	<b>3.39</b>
	<b>Return to Investment (A-E+C4)</b>	<b>207.93</b>	<b>384.89</b>	<b>2.40</b>	<b>4.28</b>
	<b>Return to Equity (A-E)</b>	<b>197.00</b>	<b>374.16</b>	<b>2.27</b>	<b>3.16</b>

**Investment**

Buildings	105.80	99.25
Machinery	392.33	400.37
Irrigation Machinery	282.68	201.79
<b>Total (incl. Land)</b>	<b>3322.39</b>	<b>3201.42</b>

**Management**

Average Yield	(Bushel/acre)	86.80	90.00
Expected Market Price	(\$/Bushel)	4.63	5.49

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

Crop: **Spring Wheat - Rent**  
 Soil Zone: **- Irrigated**  
 Unit: **Bushel**

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	342.75	--	4.08	--
	2. Crop Insurance Receipts	33.03	--	0.39	--
	3. Other Receipts	16.74	--	0.20	--
	<b>Gross Receipts</b>	<b>392.52</b>	<b>0.00</b>	<b>4.67</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	12.93	--	0.15	--
	2. Fertilizer	59.47	--	0.71	--
	3. Chemical	25.31	--	0.30	--
	4. Hail/Crop Insurance Premium	5.49	--	0.07	--
	5. Trucking and Marketing	1.57	--	0.02	--
	6. Fuel	22.13	--	0.26	--
	7. Irrigation Fuel and Electricity	17.14	--	0.20	--
	8. Repairs - Machinery	20.47	--	0.24	--
	9. Repairs - Buildings	0.46	--	0.01	--
	10. Utilities and Miscellaneous	12.16	--	0.14	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	6.58	--	0.08	--
	13. Paid Labour	2.40	--	0.03	--
	14. Unpaid Labour	17.96	--	0.21	--
	<b>Variable Costs</b>	<b>204.06</b>	<b>0.00</b>	<b>2.43</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	96.70	--	1.15	--
	2. Taxes, Water Rates, License & Ins.	8.05	--	0.10	--
	3. Equipment and Building: a) Depreciation	40.17	--	0.48	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	3.00	--	0.04	--
	<b>Capital Costs</b>	<b>147.92</b>	<b>0.00</b>	<b>1.76</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>293.86</b>	--	<b>3.50</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>351.98</b>	--	<b>4.19</b>	--
	<b>Gross Margin (A-D)</b>	<b>98.66</b>	--	<b>1.17</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>58.49</b>	--	<b>0.70</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>43.54</b>	--	<b>0.52</b>	--
	<b>Return to Equity (A-E)</b>	<b>40.54</b>	--	<b>0.48</b>	--

**Investment**

Buildings	83.61	--
Machinery	416.43	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>500.04</b>	--

**Management**

Average Yield (Bushel/acre)	84.00	--
Expected Market Price (\$/Bushel)	4.08	--

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	411.39	448.63	4.21	4.55
	2. Crop Insurance Receipts	7.76	14.87	0.08	0.15
	3. Other Receipts	30.62	11.94	0.31	0.12
	<b>Gross Receipts</b>	<b>449.77</b>	<b>475.44</b>	<b>4.60</b>	<b>4.83</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	15.17	12.20	0.16	0.12
	2. Fertilizer	61.87	62.93	0.63	0.64
	3. Chemical	26.12	26.26	0.27	0.27
	4. Hail/Crop Insurance Premium	11.35	10.87	0.12	0.11
	5. Trucking and Marketing	1.84	0.80	0.02	0.01
	6. Fuel	17.82	15.10	0.18	0.15
	7. Irrigation Fuel and Electricity	20.83	20.63	0.21	0.21
	8. Repairs - Machinery	24.74	14.69	0.25	0.15
	9. Repairs - Buildings	1.24	1.49	0.01	0.02
	10. Utilities and Miscellaneous	13.55	13.60	0.14	0.14
	11. Custom Work	14.41	6.54	0.15	0.07
	12. Operating Interest Paid	2.16	2.95	0.02	0.03
	13. Paid Labour	18.82	17.61	0.19	0.18
	14. Unpaid Labour	10.42	7.97	0.11	0.08
	<b>Variable Costs</b>	<b>240.36</b>	<b>213.64</b>	<b>2.46</b>	<b>2.17</b>
<b>(C)</b>	1. Cash/ Share Land Rent	21.24	9.65	0.22	0.10
	2. Taxes, Water Rates, License & Ins.	24.00	24.90	0.25	0.25
	3. Equipment and Building: a) Depreciation	75.87	81.99	0.78	0.83
	b) Lease Payments	1.59	2.48	0.02	0.03
	4. Paid Capital Interest	19.38	24.64	0.20	1.46
	<b>Capital Costs</b>	<b>142.08</b>	<b>143.66</b>	<b>1.45</b>	<b>2.67</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>296.15</b>	<b>267.33</b>	<b>3.03</b>	<b>3.92</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>382.44</b>	<b>357.30</b>	<b>3.91</b>	<b>4.83</b>
	<b>Gross Margin (A-D)</b>	<b>153.62</b>	<b>208.11</b>	<b>1.57</b>	<b>0.90</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>77.76</b>	<b>126.12</b>	<b>0.80</b>	<b>0.07</b>
	<b>Return to Investment (A-E+C4)</b>	<b>86.72</b>	<b>142.78</b>	<b>0.89</b>	<b>1.45</b>
	<b>Return to Equity (A-E)</b>	<b>67.33</b>	<b>118.14</b>	<b>0.69</b>	<b>(0.01)</b>

**Investment**

Buildings	82.09	64.83
Machinery	435.06	476.46
Irrigation Machinery	385.98	409.40
<b>Total (incl. Land)</b>	<b>3122.69</b>	<b>3325.07</b>

**Management**

Average Yield (Bushel/acre)	97.78	98.53
Expected Market Price (\$/Bushel)	4.21	4.55

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Durum - Own*  
**Soil Zone:** *- Irrigated*  
**Unit:** *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	418.78	461.81	4.26	4.63
	2. Crop Insurance Receipts	9.36	17.11	0.10	0.17
	3. Other Receipts	32.17	6.31	0.33	0.06
	<b>Gross Receipts</b>	<b>460.31</b>	<b>485.23</b>	<b>4.68</b>	<b>4.86</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	15.99	11.85	0.16	0.12
	2. Fertilizer	64.10	64.57	0.65	0.65
	3. Chemical	26.67	27.50	0.27	0.28
	4. Hail/Crop Insurance Premium	11.43	10.48	0.12	0.10
	5. Trucking and Marketing	2.07	0.92	0.02	0.01
	6. Fuel	17.80	13.78	0.18	0.14
	7. Irrigation Fuel and Electricity	20.96	20.58	0.21	0.21
	8. Repairs - Machinery	26.23	13.18	0.27	0.13
	9. Repairs - Buildings	1.16	1.39	0.01	0.01
	10. Utilities and Miscellaneous	14.41	14.87	0.15	0.15
	11. Custom Work	13.26	0.00	0.13	0.00
	12. Operating Interest Paid	2.07	3.12	0.02	0.03
	13. Paid Labour	17.94	14.93	0.18	0.15
	14. Unpaid Labour	11.34	8.98	0.12	0.09
	<b>Variable Costs</b>	<b>245.43</b>	<b>206.16</b>	<b>2.49</b>	<b>2.07</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00
	2. Taxes, Water Rates, License & Ins.	28.08	28.37	0.29	0.28
	3. Equipment and Building: a) Depreciation	83.39	90.40	0.85	0.91
	b) Lease Payments	1.56	2.86	0.02	0.03
4. Paid Capital Interest	22.12	27.20	0.22	1.49	
	<b>Capital Costs</b>	<b>135.15</b>	<b>148.83</b>	<b>1.37</b>	<b>2.71</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>285.84</b>	<b>255.60</b>	<b>2.91</b>	<b>3.78</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>380.58</b>	<b>354.99</b>	<b>3.87</b>	<b>4.78</b>
	<b>Gross Margin (A-D)</b>	<b>174.47</b>	<b>229.63</b>	<b>1.77</b>	<b>1.08</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>91.08</b>	<b>139.22</b>	<b>0.93</b>	<b>0.18</b>
	<b>Return to Investment (A-E+C4)</b>	<b>101.85</b>	<b>157.44</b>	<b>1.04</b>	<b>1.58</b>
	<b>Return to Equity (A-E)</b>	<b>79.74</b>	<b>130.24</b>	<b>0.81</b>	<b>0.09</b>

### Investment

Buildings	83.40	59.48
Machinery	441.02	512.30
Irrigation Machinery	465.32	470.93
<b>Total (incl. Land)</b>	<b>3665.58</b>	<b>3773.93</b>

### Management

Average Yield	(Bushel/acre)	98.37	99.78
Expected Market Price	(\$/Bushel)	4.26	4.63



## 2004 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** Durum - Rent  
**Soil Zone:** - Irrigated  
**Unit:** Bushel

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	375.44	--	3.96	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	23.07	--	0.24	--
<b>Gross Receipts</b>		<b>398.51</b>	<b>0.00</b>	<b>4.20</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	11.20	--	0.12	--
	2. Fertilizer	51.01	--	0.54	--
	3. Chemical	23.46	--	0.25	--
	4. Hail/Crop Insurance Premium	10.98	--	0.12	--
	5. Trucking and Marketing	0.72	--	0.01	--
	6. Fuel	17.91	--	0.19	--
	7. Irrigation Fuel and Electricity	20.20	--	0.21	--
	8. Repairs - Machinery	17.49	--	0.18	--
	9. Repairs - Buildings	1.63	--	0.02	--
	10. Utilities and Miscellaneous	9.39	--	0.10	--
	11. Custom Work	20.03	--	0.21	--
	12. Operating Interest Paid	2.59	--	0.03	--
	13. Paid Labour	23.14	--	0.24	--
	14. Unpaid Labour	5.97	--	0.06	--
<b>Variable Costs</b>		<b>215.73</b>	<b>0.00</b>	<b>2.27</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	124.54	--	1.31	--
	2. Taxes, Water Rates, License & Ins.	4.18	--	0.04	--
	3. Equipment and Building: a) Depreciation	39.26	--	0.41	--
	b) Lease Payments	1.72	--	0.02	--
	4. Paid Capital Interest	6.09	--	0.06	--
<b>Capital Costs</b>		<b>175.79</b>	<b>0.00</b>	<b>1.85</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>346.28</b>	--	<b>3.65</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>391.51</b>	--	<b>4.13</b>	--
	<b>Gross Margin (A-D)</b>	<b>52.23</b>	--	<b>0.55</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>12.97</b>	--	<b>0.14</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>13.08</b>	--	<b>0.14</b>	--
	<b>Return to Equity (A-E)</b>	<b>7.00</b>	--	<b>0.07</b>	--

**Investment**

Buildings	75.71	--
Machinery	406.05	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>481.76</b>	--

**Management**

Average Yield	(Bushel/acre)	94.90	--
Expected Market Price	(\$/Bushel)	3.96	--

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	427.31	490.07	3.84	4.32
	2. Crop Insurance Receipts	9.74	4.07	0.09	0.04
	3. Other Receipts	48.51	34.96	0.44	0.31
<b>Gross Receipts</b>		<b>485.55</b>	<b>529.10</b>	<b>4.36</b>	<b>4.67</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	15.50	17.49	0.14	0.15
	2. Fertilizer	66.34	62.62	0.60	0.55
	3. Chemical	26.67	26.20	0.24	0.23
	4. Hail/Crop Insurance Premium	10.11	8.65	0.09	0.08
	5. Trucking and Marketing	2.13	6.28	0.02	0.06
	6. Fuel	14.49	16.63	0.13	0.15
	7. Irrigation Fuel and Electricity	19.28	25.72	0.17	0.23
	8. Repairs - Machinery	16.86	13.60	0.15	0.12
	9. Repairs - Buildings	1.26	0.95	0.01	0.01
	10. Utilities and Miscellaneous	19.92	17.72	0.18	0.16
	11. Custom Work	16.31	8.81	0.15	0.08
	12. Operating Interest Paid	3.20	5.90	0.03	0.05
	13. Paid Labour	12.91	1.07	0.12	0.01
	14. Unpaid Labour	15.24	21.32	0.14	0.19
<b>Variable Costs</b>		<b>240.21</b>	<b>232.98</b>	<b>2.16</b>	<b>2.05</b>
<b>(C)</b>	1. Cash/ Share Land Rent	31.42	38.46	0.28	0.34
	2. Taxes, Water Rates, License & Ins.	21.50	24.63	0.19	0.22
	3. Equipment and Building: a) Depreciation	66.57	51.63	0.60	0.46
	b) Lease Payments	1.62	0.00	0.01	0.00
	4. Paid Capital Interest	21.91	10.50	0.20	1.10
<b>Capital Costs</b>		<b>143.02</b>	<b>125.21</b>	<b>1.28</b>	<b>2.12</b>
<b>(D)</b>	<b>Cash Costs</b>	<b>301.42</b>	<b>285.24</b>	<b>2.71</b>	<b>3.53</b>
<b>(E)</b>	<b>Total Production Costs</b>	<b>383.23</b>	<b>358.19</b>	<b>3.44</b>	<b>4.17</b>
	<b>Gross Margin</b>	<b>184.13</b>	<b>243.86</b>	<b>1.65</b>	<b>1.14</b>
	<b>Return to Unpaid Labour</b>	<b>117.56</b>	<b>192.23</b>	<b>1.06</b>	<b>0.68</b>
	<b>Return to Investment</b>	<b>124.24</b>	<b>181.41</b>	<b>1.12</b>	<b>1.60</b>
	<b>Return to Equity</b>	<b>102.32</b>	<b>170.91</b>	<b>0.92</b>	<b>0.50</b>

**Investment**

Buildings	96.60	110.99
Machinery	452.59	391.25
Irrigation Machinery	249.84	136.15
<b>Total (incl. Land)</b>	<b>2424.42</b>	<b>2325.13</b>

**Management**

Average Yield	(Bushel/acre)	111.35	113.37
Expected Market Price	(\$/Bushel)	3.84	4.32

## 2004 Crop Enterprise Analysis

*AgriProfit*®

Crop: **Soft Wheat - Own**  
 Soil Zone: **- Irrigated**  
 Unit: **Bushel**

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	433.59	--	4.02	--
	2. Crop Insurance Receipts	12.46	--	0.12	--
	3. Other Receipts	44.83	--	0.42	--
<b>Gross Receipts</b>		<b>490.87</b>	<b>0.00</b>	<b>4.55</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	16.35	--	0.15	--
	2. Fertilizer	64.87	--	0.60	--
	3. Chemical	27.09	--	0.25	--
	4. Hail/Crop Insurance Premium	10.59	--	0.10	--
	5. Trucking and Marketing	1.24	--	0.01	--
	6. Fuel	14.57	--	0.14	--
	7. Irrigation Fuel and Electricity	21.62	--	0.20	--
	8. Repairs - Machinery	16.98	--	0.16	--
	9. Repairs - Buildings	1.31	--	0.01	--
	10. Utilities and Miscellaneous	21.41	--	0.20	--
	11. Custom Work	19.13	--	0.18	--
	12. Operating Interest Paid	3.96	--	0.04	--
	13. Paid Labour	13.06	--	0.12	--
	14. Unpaid Labour	15.50	--	0.14	--
<b>Variable Costs</b>		<b>247.68</b>	<b>0.00</b>	<b>2.30</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	28.76	--	0.27	--
	3. Equipment and Building: a) Depreciation	78.76	--	0.73	--
	b) Lease Payments	1.57	--	0.01	--
	4. Paid Capital Interest	29.33	--	0.27	--
<b>Capital Costs</b>		<b>138.42</b>	<b>0.00</b>	<b>1.28</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs</b> (B+C-B14-C3a)	<b>291.84</b>	--	<b>2.71</b>	--
<b>(E)</b>	<b>Total Production Costs</b> (B+C)	<b>386.10</b>	--	<b>3.58</b>	--
	<b>Gross Margin</b> (A-D)	<b>199.03</b>	--	<b>1.85</b>	--
	<b>Return to Unpaid Labour</b> (A-E+B14)	<b>120.27</b>	--	<b>1.12</b>	--
	<b>Return to Investment</b> (A-E+C4)	<b>134.10</b>	--	<b>1.24</b>	--
	<b>Return to Equity</b> (A-E)	<b>104.77</b>	--	<b>0.97</b>	--

**Investment**

Buildings	99.51	--
Machinery	465.95	--
Irrigation Machinery	372.47	--
<b>Total (incl. Land)</b>	<b>3361.13</b>	--

**Management**

Average Yield (Bushel/acre)	107.85	--
Expected Market Price (\$/Bushel)	4.02	--

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	414.52	--	3.50	--
	2. Crop Insurance Receipts	4.20	--	0.04	--
	3. Other Receipts	56.00	--	0.47	--
	<b>Gross Receipts</b>	<b>474.72</b>	<b>0.00</b>	<b>4.01</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	13.75	--	0.12	--
	2. Fertilizer	69.32	--	0.59	--
	3. Chemical	25.83	--	0.22	--
	4. Hail/Crop Insurance Premium	9.13	--	0.08	--
	5. Trucking and Marketing	3.96	--	0.03	--
	6. Fuel	14.32	--	0.12	--
	7. Irrigation Fuel and Electricity	14.52	--	0.12	--
	8. Repairs - Machinery	16.62	--	0.14	--
	9. Repairs - Buildings	1.15	--	0.01	--
	10. Utilities and Miscellaneous	16.89	--	0.14	--
	11. Custom Work	10.56	--	0.09	--
	12. Operating Interest Paid	1.65	--	0.01	--
	13. Paid Labour	12.59	--	0.11	--
	14. Unpaid Labour	14.71	--	0.12	--
	<b>Variable Costs</b>	<b>225.00</b>	<b>0.00</b>	<b>1.90</b>	<b>0.00</b>
<b>(C)</b>	<b>Capital Costs</b>				
	1. Cash/ Share Land Rent	95.42	--	0.81	--
	2. Taxes, Water Rates, License & Ins.	6.70	--	0.06	--
	3. Equipment and Building: a) Depreciation	41.75	--	0.35	--
	b) Lease Payments	1.71	--	0.01	--
	4. Paid Capital Interest	6.81	--	0.06	--
	<b>Capital Costs</b>	<b>152.40</b>	<b>0.00</b>	<b>1.29</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>320.94</b>	<b>--</b>	<b>2.71</b>	<b>--</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>377.39</b>	<b>--</b>	<b>3.19</b>	<b>--</b>
	<b>Gross Margin (A-D)</b>	<b>153.78</b>	<b>--</b>	<b>1.30</b>	<b>--</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>112.03</b>	<b>--</b>	<b>0.95</b>	<b>--</b>
	<b>Return to Investment (A-E+C4)</b>	<b>104.14</b>	<b>--</b>	<b>0.88</b>	<b>--</b>
	<b>Return to Equity (A-E)</b>	<b>97.33</b>	<b>--</b>	<b>0.82</b>	<b>--</b>

**Investment**

Buildings	90.65	--
Machinery	425.39	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>516.04</b>	<b>--</b>

**Management**

Average Yield (Bushel/acre)	118.48	--
Expected Market Price (\$/Bushel)	3.50	--

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	248.42	262.67	2.35	2.35
	2. Crop Insurance Receipts	2.85	0.00	0.03	0.00
	3. Other Receipts	31.22	32.28	0.29	0.29
<b>Gross Receipts</b>		<b>282.49</b>	<b>294.95</b>	<b>2.67</b>	<b>2.64</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	10.83	8.88	0.10	0.08
	2. Fertilizer	44.93	39.28	0.42	0.35
	3. Chemical	19.29	19.36	0.18	0.17
	4. Hail/Crop Insurance Premium	6.21	3.19	0.06	0.03
	5. Trucking and Marketing	1.68	4.01	0.02	0.04
	6. Fuel	14.86	11.83	0.14	0.11
	7. Irrigation Fuel and Electricity	14.59	11.11	0.14	0.10
	8. Repairs - Machinery	19.88	17.22	0.19	0.15
	9. Repairs - Buildings	2.81	0.66	0.03	0.01
	10. Utilities and Miscellaneous	12.12	12.95	0.11	0.12
	11. Custom Work	23.52	14.73	0.22	0.13
	12. Operating Interest Paid	4.73	5.11	0.04	0.05
	13. Paid Labour	16.07	8.60	0.15	0.08
	14. Unpaid Labour	13.19	17.42	0.12	0.16
<b>Variable Costs</b>		<b>204.72</b>	<b>174.35</b>	<b>1.93</b>	<b>1.56</b>
<b>(C)</b>	1. Cash/ Share Land Rent	31.53	38.54	0.30	0.34
	2. Taxes, Water Rates, License & Ins.	15.33	13.84	0.14	0.12
	3. Equipment and Building: a) Depreciation	49.19	39.03	0.46	0.35
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	12.00	6.77	0.11	0.88
<b>Capital Costs</b>		<b>108.05</b>	<b>98.18</b>	<b>1.02</b>	<b>1.69</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>250.39</b>	<b>216.08</b>	<b>2.37</b>	<b>2.75</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>312.77</b>	<b>272.54</b>	<b>2.96</b>	<b>3.25</b>
	<b>Gross Margin (A-D)</b>	<b>32.10</b>	<b>78.86</b>	<b>0.30</b>	<b>(0.11)</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>(17.09)</b>	<b>39.83</b>	<b>(0.16)</b>	<b>(0.46)</b>
	<b>Return to Investment (A-E+C4)</b>	<b>(18.28)</b>	<b>29.19</b>	<b>(0.17)</b>	<b>0.26</b>
	<b>Return to Equity (A-E)</b>	<b>(30.28)</b>	<b>22.41</b>	<b>(0.29)</b>	<b>(0.62)</b>

**Investment**

Buildings	122.82	115.90
Machinery	271.37	227.96
Irrigation Machinery	224.51	152.85
<b>Total (incl. Land)</b>	<b>1917.53</b>	<b>1736.77</b>

**Management**

Average Yield (Bushel/acre)	105.83	111.86
Expected Market Price (\$/Bushel)	2.35	2.35

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	237.61	238.21	2.36	2.35
	2. Crop Insurance Receipts	4.51	0.00	0.04	0.00
	3. Other Receipts	26.84	7.77	0.27	0.08
	<b>Gross Receipts</b>	<b>268.96</b>	<b>245.98</b>	<b>2.67</b>	<b>2.43</b>
<b>(B) Cost Items</b>					
	1. Seed	11.67	9.43	0.12	0.09
	2. Fertilizer	47.58	42.24	0.47	0.42
	3. Chemical	16.48	14.02	0.16	0.14
	4. Hail/Crop Insurance Premium	6.16	1.24	0.06	0.01
	5. Trucking and Marketing	0.82	2.33	0.01	0.02
	6. Fuel	15.12	11.03	0.15	0.11
	7. Irrigation Fuel and Electricity	14.94	8.38	0.15	0.08
	8. Repairs - Machinery	20.38	17.78	0.20	0.18
	9. Repairs - Buildings	4.00	0.82	0.04	0.01
	10. Utilities and Miscellaneous	13.13	12.54	0.13	0.12
	11. Custom Work	18.26	1.73	0.18	0.02
	12. Operating Interest Paid	7.14	10.67	0.07	0.11
	13. Paid Labour	19.64	12.43	0.20	0.12
	14. Unpaid Labour	12.16	15.31	0.12	0.15
	<b>Variable Costs</b>	<b>207.48</b>	<b>159.94</b>	<b>2.06</b>	<b>1.58</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00
	2. Taxes, Water Rates, License & Ins.	22.08	21.39	0.22	0.21
	3. Equipment and Building: a) Depreciation	62.72	51.87	0.62	0.51
	b) Lease Payments	0.00	0.00	0.00	0.00
4. Paid Capital Interest	15.43	6.31	0.15	0.79	
	<b>Capital Costs</b>	<b>100.24</b>	<b>79.56</b>	<b>1.00</b>	<b>1.51</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>232.83</b>	<b>172.33</b>	<b>2.31</b>	<b>2.43</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>307.71</b>	<b>239.51</b>	<b>3.06</b>	<b>3.09</b>
	<b>Gross Margin (A-D)</b>	<b>36.13</b>	<b>73.65</b>	<b>0.36</b>	<b>0.00</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>(26.60)</b>	<b>21.78</b>	<b>(0.26)</b>	<b>(0.51)</b>
	<b>Return to Investment (A-E+C4)</b>	<b>(23.32)</b>	<b>12.78</b>	<b>(0.23)</b>	<b>0.13</b>
	<b>Return to Equity (A-E)</b>	<b>(38.75)</b>	<b>6.47</b>	<b>(0.39)</b>	<b>(0.66)</b>

**Investment**

Buildings	130.00	113.19
Machinery	296.76	253.75
Irrigation Machinery	355.02	281.41
<b>Total (incl. Land)</b>	<b>2800.43</b>	<b>2800.02</b>

**Management**

Average Yield (Bushel/acre)	100.61	101.19
Expected Market Price (\$/Bushel)	2.36	2.35

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Bushel -----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	271.64	281.29	2.33	2.32	
	2. Crop Insurance Receipts	0.00	0.00	0.00	0.00	
	3. Other Receipts	30.25	9.24	0.26	0.08	
<b>Gross Receipts</b>		<b>301.89</b>	<b>290.52</b>	<b>2.59</b>	<b>2.40</b>	
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	9.63	8.77	0.08	0.07	
	2. Fertilizer	41.60	31.95	0.36	0.26	
	3. Chemical	24.99	24.52	0.21	0.20	
	4. Hail/Crop Insurance Premium	6.62	3.72	0.06	0.03	
	5. Trucking and Marketing	3.33	0.95	0.03	0.01	
	6. Fuel	14.01	8.28	0.12	0.07	
	7. Irrigation Fuel and Electricity	13.83	15.07	0.12	0.12	
	8. Repairs - Machinery	19.16	11.26	0.16	0.09	
	9. Repairs - Buildings	0.81	0.61	0.01	0.01	
	10. Utilities and Miscellaneous	10.73	10.46	0.09	0.09	
	11. Custom Work	34.00	29.79	0.29	0.25	
	12. Operating Interest Paid	0.61	0.58	0.01	0.00	
	13. Paid Labour	10.46	5.70	0.09	0.05	
	14. Unpaid Labour	14.80	16.99	0.13	0.14	
<b>Variable Costs</b>		<b>204.56</b>	<b>168.65</b>	<b>1.75</b>	<b>1.39</b>	
<b>(C)</b>	1. Cash/ Share Land Rent	88.67	89.06	0.76	0.73	
	2. Taxes, Water Rates, License & Ins.	3.89	3.90	0.03	0.03	
	3. Equipment and Building:	a) Depreciation	25.94	17.34	0.22	0.14
		b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	6.23	1.07	0.05	0.92	
<b>Capital Costs</b>		<b>124.74</b>	<b>111.37</b>	<b>1.07</b>	<b>1.83</b>	
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>288.56</b>	<b>245.69</b>	<b>2.47</b>	<b>2.94</b>	
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>329.30</b>	<b>280.02</b>	<b>2.82</b>	<b>3.22</b>	
	<b>Gross Margin (A-D)</b>	<b>13.33</b>	<b>44.84</b>	<b>0.11</b>	<b>(0.54)</b>	
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>(12.62)</b>	<b>27.49</b>	<b>(0.11)</b>	<b>(0.68)</b>	
	<b>Return to Investment (A-E+C4)</b>	<b>(21.19)</b>	<b>11.57</b>	<b>(0.18)</b>	<b>0.10</b>	
	<b>Return to Equity (A-E)</b>	<b>(27.42)</b>	<b>10.50</b>	<b>(0.23)</b>	<b>(0.82)</b>	

**Investment**

Buildings	107.53	86.12
Machinery	229.42	142.02
Irrigation Machinery	0.00	0.00
<b>Total (incl. Land)</b>	<b>336.94</b>	<b>228.15</b>

**Management**

Average Yield (Bushel/acre)	116.66	121.23
Expected Market Price (\$/Bushel)	2.33	2.32

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** *Triticale - All*  
**Soil Zone:** *- Irrigated*  
**Unit:** *Bushel*

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	186.39	--	2.79	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	0.00	--	0.00	--
	<b>Gross Receipts</b>	<b>186.39</b>	<b>0.00</b>	<b>2.79</b>	<b>0.00</b>
<b>(B) Cost Items</b>					
	1. Seed	12.47	--	0.19	--
	2. Fertilizer	33.18	--	0.50	--
	3. Chemical	9.54	--	0.14	--
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	9.76	--	0.15	--
	7. Irrigation Fuel and Electricity	4.75	--	0.07	--
	8. Repairs - Machinery	16.00	--	0.24	--
	9. Repairs - Buildings	0.83	--	0.01	--
	10. Utilities and Miscellaneous	9.98	--	0.15	--
	11. Custom Work	0.00	--	0.00	--
	12. Operating Interest Paid	13.02	--	0.20	--
	13. Paid Labour	13.44	--	0.20	--
	14. Unpaid Labour	13.29	--	0.20	--
	<b>Variable Costs</b>	<b>136.26</b>	<b>0.00</b>	<b>2.04</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	18.42	--	0.28	--
	3. Equipment and Building: a) Depreciation	38.08	--	0.57	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	1.96	--	0.03	--	
	<b>Capital Costs</b>	<b>58.46</b>	<b>0.00</b>	<b>0.88</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>143.35</b>	--	<b>2.15</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>194.71</b>	--	<b>2.92</b>	--
	<b>Gross Margin (A-D)</b>	<b>43.04</b>	--	<b>0.65</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>4.97</b>	--	<b>0.07</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>(6.36)</b>	--	<b>(0.10)</b>	--
	<b>Return to Equity (A-E)</b>	<b>(8.33)</b>	--	<b>(0.12)</b>	--

**Investment**

Buildings	103.94	--
Machinery	236.28	--
Irrigation Machinery	138.97	--
<b>Total (incl. Land)</b>	<b>2479.19</b>	--

**Management**

Average Yield (Bushel/acre)	66.71	--
Expected Market Price (\$/Bushel)	2.79	--



## 2004 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** Roundup Ready Canola - All  
**Soil Zone:** - Irrigated  
**Unit:** Bushel

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	554.98	--	27.71	--
	2. Crop Insurance Receipts	21.73	--	1.09	--
	3. Other Receipts	17.00	--	0.85	--
<b>Gross Receipts</b>		<b>593.72</b>	<b>0.00</b>	<b>29.65</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	26.28	--	1.31	--
	2. Fertilizer	61.86	--	3.09	--
	3. Chemical	45.40	--	2.27	--
	4. Hail/Crop Insurance Premium	20.91	--	1.04	--
	5. Trucking and Marketing	2.47	--	0.12	--
	6. Fuel	17.90	--	0.89	--
	7. Irrigation Fuel and Electricity	24.83	--	1.24	--
	8. Repairs - Machinery	14.40	--	0.72	--
	9. Repairs - Buildings	1.43	--	0.07	--
	10. Utilities and Miscellaneous	20.13	--	1.00	--
	11. Custom Work	18.59	--	0.93	--
	12. Operating Interest Paid	5.93	--	0.30	--
	13. Paid Labour	6.39	--	0.32	--
	14. Unpaid Labour	18.45	--	0.92	--
<b>Variable Costs</b>		<b>284.96</b>	<b>0.00</b>	<b>14.23</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	8.47	--	0.42	--
	2. Taxes, Water Rates, License & Ins.	27.85	--	1.39	--
	3. Equipment and Building: a) Depreciation	59.55	--	2.97	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	13.28	--	0.66	--
<b>Capital Costs</b>		<b>109.14</b>	<b>0.00</b>	<b>5.45</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>316.11</b>	--	<b>15.78</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>394.10</b>	--	<b>19.68</b>	--
	<b>Gross Margin (A-D)</b>	<b>277.61</b>	--	<b>13.86</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>218.06</b>	--	<b>10.89</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>212.89</b>	--	<b>10.63</b>	--
	<b>Return to Equity (A-E)</b>	<b>199.61</b>	--	<b>9.97</b>	--

### Investment

Buildings	104.85	--
Machinery	372.94	--
Irrigation Machinery	255.88	--
<b>Total (incl. Land)</b>	<b>2775.67</b>	--

### Management

Average Yield	(Bushel/acre)	20.03	--
Expected Market Price	(\$/Bushel)	27.71	--

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** Roundup Ready Canola - Own  
**Soil Zone:** - Irrigated  
**Unit:** Bushel

		----- \$/Acre -----		----- \$/Bushel -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	574.52	--	35.60	--
	2. Crop Insurance Receipts	23.85	--	1.48	--
	3. Other Receipts	18.49	--	1.15	--
	<b>Gross Receipts</b>	<b>616.86</b>	<b>0.00</b>	<b>38.22</b>	<b>0.00</b>
<b>(B) Cost Items</b>					
	1. Seed	25.25	--	1.56	--
	2. Fertilizer	60.02	--	3.72	--
	3. Chemical	48.16	--	2.98	--
	4. Hail/Crop Insurance Premium	21.86	--	1.35	--
	5. Trucking and Marketing	2.71	--	0.17	--
	6. Fuel	18.44	--	1.14	--
	7. Irrigation Fuel and Electricity	26.39	--	1.64	--
	8. Repairs - Machinery	14.35	--	0.89	--
	9. Repairs - Buildings	1.45	--	0.09	--
	10. Utilities and Miscellaneous	19.97	--	1.24	--
	11. Custom Work	19.86	--	1.23	--
	12. Operating Interest Paid	6.50	--	0.40	--
	13. Paid Labour	6.16	--	0.38	--
	14. Unpaid Labour	18.27	--	1.13	--
	<b>Variable Costs</b>	<b>289.40</b>	<b>0.00</b>	<b>17.93</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--
	2. Taxes, Water Rates, License & Ins.	29.75	--	1.84	--
	3. Equipment and Building: a) Depreciation	62.82	--	3.89	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	14.33	--	0.89	--	
	<b>Capital Costs</b>	<b>106.90</b>	<b>0.00</b>	<b>6.62</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>315.21</b>	--	<b>19.53</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>396.30</b>	--	<b>24.55</b>	--
	<b>Gross Margin (A-D)</b>	<b>301.65</b>	--	<b>18.69</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>238.83</b>	--	<b>14.80</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>234.89</b>	--	<b>14.55</b>	--
	<b>Return to Equity (A-E)</b>	<b>220.56</b>	--	<b>13.67</b>	--

**Investment**

Buildings	105.16	--
Machinery	385.57	--
Irrigation Machinery	280.77	--
<b>Total (incl. Land)</b>	<b>3012.07</b>	--

**Management**

Average Yield (Bushel/acre)	16.14	--
Expected Market Price (\$/Bushel)	35.60	--

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	908.49	956.71	44.05	44.05
	2. Crop Insurance Receipts	24.49	53.40	1.19	2.46
	3. Other Receipts	12.64	13.62	0.61	0.63
<b>Gross Receipts</b>		<b>945.62</b>	<b>1023.73</b>	<b>45.85</b>	<b>47.14</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	49.72	49.72	2.41	2.29
	2. Fertilizer	49.58	43.33	2.40	2.00
	3. Chemical	85.48	86.33	4.14	3.97
	4. Hail/Crop Insurance Premium	20.38	20.56	0.99	0.95
	5. Trucking and Marketing	78.66	77.34	3.81	3.56
	6. Fuel	39.52	34.07	1.92	1.57
	7. Irrigation Fuel and Electricity	27.05	33.02	1.31	1.52
	8. Repairs - Machinery	54.10	56.18	2.62	2.59
	9. Repairs - Buildings	2.23	0.32	0.11	0.01
	10. Utilities and Miscellaneous	32.53	28.14	1.58	1.30
	11. Custom Work	45.56	45.66	2.21	2.10
	12. Operating Interest Paid	5.47	2.04	0.27	0.09
	13. Paid Labour	43.74	43.14	2.12	1.99
	14. Unpaid Labour	41.36	38.87	2.01	1.79
<b>Variable Costs</b>		<b>575.36</b>	<b>558.72</b>	<b>27.90</b>	<b>25.73</b>
<b>(C)</b>	1. Cash/ Share Land Rent	101.11	45.69	4.90	2.10
	2. Taxes, Water Rates, License & Ins.	18.20	23.22	0.88	1.07
	3. Equipment and Building: a) Depreciation	83.91	97.39	4.07	4.48
	b) Lease Payments	8.98	3.94	0.44	0.18
	4. Paid Capital Interest	16.57	29.41	0.80	9.19
<b>Capital Costs</b>		<b>228.77</b>	<b>199.66</b>	<b>11.09</b>	<b>17.03</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>678.86</b>	<b>622.12</b>	<b>32.92</b>	<b>36.48</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>804.13</b>	<b>758.38</b>	<b>38.99</b>	<b>42.76</b>
	<b>Gross Margin (A-D)</b>	<b>266.76</b>	<b>401.61</b>	<b>12.93</b>	<b>10.65</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>182.84</b>	<b>304.23</b>	<b>8.87</b>	<b>6.17</b>
	<b>Return to Investment (A-E+C4)</b>	<b>158.06</b>	<b>294.76</b>	<b>7.66</b>	<b>13.57</b>
	<b>Return to Equity (A-E)</b>	<b>141.49</b>	<b>265.35</b>	<b>6.86</b>	<b>4.38</b>

**Investment**

Buildings	108.92	86.45
Machinery	674.64	704.23
Irrigation Machinery	196.71	328.44
<b>Total (incl. Land)</b>	<b>2013.54</b>	<b>2906.28</b>

**Management**

Average Yield (Tonne/acre)	20.62	21.72
Expected Market Price (\$/Tonne)	44.05	44.05

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	902.44	942.94	44.05	44.05
	2. Crop Insurance Receipts	20.70	30.18	1.01	1.41
	3. Other Receipts	9.72	5.30	0.47	0.25
	<b>Gross Receipts</b>	<b>932.86</b>	<b>978.42</b>	<b>45.54</b>	<b>45.71</b>
<b>(B) Cost Items</b>					
	1. Seed	49.72	49.72	2.43	2.32
	2. Fertilizer	52.30	46.73	2.55	2.18
	3. Chemical	83.89	88.64	4.09	4.14
	4. Hail/Crop Insurance Premium	19.98	21.22	0.98	0.99
	5. Trucking and Marketing	74.89	74.08	3.66	3.46
	6. Fuel	46.09	38.87	2.25	1.82
	7. Irrigation Fuel and Electricity	29.94	38.21	1.46	1.79
	8. Repairs - Machinery	57.40	54.64	2.80	2.55
	9. Repairs - Buildings	1.45	0.19	0.07	0.01
	10. Utilities and Miscellaneous	31.56	26.72	1.54	1.25
	11. Custom Work	51.57	45.87	2.52	2.14
	12. Operating Interest Paid	4.50	1.64	0.22	0.08
	13. Paid Labour	36.24	29.73	1.77	1.39
	14. Unpaid Labour	44.69	31.86	2.18	1.49
	<b>Variable Costs</b>	<b>584.21</b>	<b>548.12</b>	<b>28.52</b>	<b>25.61</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00
	2. Taxes, Water Rates, License & Ins.	30.33	29.34	1.48	1.37
	3. Equipment and Building:				
	a) Depreciation	110.75	98.96	5.41	4.62
b) Lease Payments	4.13	2.20	0.20	0.10	
4. Paid Capital Interest	33.14	36.89	1.62	7.82	
	<b>Capital Costs</b>	<b>178.34</b>	<b>167.39</b>	<b>8.71</b>	<b>13.92</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>607.12</b>	<b>584.70</b>	<b>29.63</b>	<b>33.41</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>762.56</b>	<b>715.51</b>	<b>37.22</b>	<b>39.52</b>
	<b>Gross Margin (A-D)</b>	<b>325.74</b>	<b>393.72</b>	<b>15.90</b>	<b>12.30</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>214.99</b>	<b>294.76</b>	<b>10.49</b>	<b>7.67</b>
	<b>Return to Investment (A-E+C4)</b>	<b>203.44</b>	<b>299.79</b>	<b>9.93</b>	<b>14.00</b>
	<b>Return to Equity (A-E)</b>	<b>170.31</b>	<b>262.90</b>	<b>8.31</b>	<b>6.19</b>

**Investment**

Buildings	102.52	61.08
Machinery	701.36	696.80
Irrigation Machinery	471.90	379.61
<b>Total (incl. Land)</b>	<b>3754.49</b>	<b>3670.00</b>

**Management**

Average Yield (Tonne/acre)	20.49	21.41
Expected Market Price (\$/Tonne)	44.05	44.05

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	912.81	969.20	44.05	44.05
	2. Crop Insurance Receipts	27.19	57.08	1.31	2.59
	3. Other Receipts	14.73	20.84	0.71	0.95
	<b>Gross Receipts</b>	<b>954.73</b>	<b>1047.12</b>	<b>46.07</b>	<b>47.59</b>
<b>(B) Cost Items</b>					
	1. Seed	49.72	49.72	2.40	2.26
	2. Fertilizer	47.64	46.80	2.30	2.13
	3. Chemical	86.62	81.73	4.18	3.71
	4. Hail/Crop Insurance Premium	20.67	21.03	1.00	0.96
	5. Trucking and Marketing	81.36	77.31	3.93	3.51
	6. Fuel	34.81	28.05	1.68	1.27
	7. Irrigation Fuel and Electricity	24.98	24.30	1.21	1.10
	8. Repairs - Machinery	51.74	44.94	2.50	2.04
	9. Repairs - Buildings	2.79	1.17	0.13	0.05
	10. Utilities and Miscellaneous	33.22	27.76	1.60	1.26
	11. Custom Work	41.26	39.88	1.99	1.81
	12. Operating Interest Paid	6.16	1.66	0.30	0.08
	13. Paid Labour	49.10	49.17	2.37	2.23
	14. Unpaid Labour	38.98	48.42	1.88	2.20
	<b>Variable Costs</b>	<b>569.04</b>	<b>541.94</b>	<b>27.46</b>	<b>24.63</b>
<b>(C)</b>	1. Cash/ Share Land Rent	173.38	168.89	8.37	7.68
	2. Taxes, Water Rates, License & Ins.	9.53	7.75	0.46	0.35
	3. Equipment and Building: a) Depreciation	64.73	73.81	3.12	3.35
	b) Lease Payments	12.44	3.69	0.60	0.17
4. Paid Capital Interest	4.73	3.77	0.23	11.72	
	<b>Capital Costs</b>	<b>264.81</b>	<b>257.92</b>	<b>12.78</b>	<b>23.27</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>730.14</b>	<b>677.63</b>	<b>35.23</b>	<b>42.35</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>833.85</b>	<b>799.86</b>	<b>40.24</b>	<b>47.90</b>
	<b>Gross Margin (A-D)</b>	<b>224.59</b>	<b>369.49</b>	<b>10.84</b>	<b>5.24</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>159.86</b>	<b>295.68</b>	<b>7.71</b>	<b>1.89</b>
	<b>Return to Investment (A-E+C4)</b>	<b>125.61</b>	<b>251.03</b>	<b>6.06</b>	<b>11.41</b>
	<b>Return to Equity (A-E)</b>	<b>120.89</b>	<b>247.26</b>	<b>5.83</b>	<b>(0.31)</b>

**Investment**

Buildings	113.49	136.57
Machinery	655.55	711.31
Irrigation Machinery	0.00	0.00
<b>Total (incl. Land)</b>	<b>769.04</b>	<b>847.87</b>

**Management**

Average Yield (Tonne/acre)	20.72	22.00
Expected Market Price (\$/Tonne)	44.05	44.05

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Pound -----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	559.97	498.42	0.24	0.26	
	2. Crop Insurance Receipts	97.62	297.01	0.04	0.16	
	3. Other Receipts	95.90	297.65	0.04	0.16	
	<b>Gross Receipts</b>	<b>753.48</b>	<b>1093.08</b>	<b>0.32</b>	<b>0.58</b>	
<hr/>						
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	37.23	33.06	0.02	0.02	
	2. Fertilizer	57.82	53.65	0.02	0.03	
	3. Chemical	82.01	68.00	0.03	0.04	
	4. Hail/Crop Insurance Premium	27.03	20.23	0.01	0.01	
	5. Trucking and Marketing	1.17	0.00	0.00	0.00	
	6. Fuel	27.23	17.68	0.01	0.01	
	7. Irrigation Fuel and Electricity	18.87	24.90	0.01	0.01	
	8. Repairs - Machinery	30.78	6.79	0.01	0.00	
	9. Repairs - Buildings	0.67	0.00	0.00	0.00	
	10. Utilities and Miscellaneous	16.25	15.53	0.01	0.01	
	11. Custom Work	17.14	39.44	0.01	0.02	
	12. Operating Interest Paid	2.66	6.64	0.00	0.00	
	13. Paid Labour	39.38	0.00	0.02	0.00	
	14. Unpaid Labour	20.66	21.41	0.01	0.01	
	<b>Variable Costs</b>	<b>378.89</b>	<b>307.33</b>	<b>0.16</b>	<b>0.16</b>	
<hr/>						
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00	
	2. Taxes, Water Rates, License & Ins.	26.54	26.02	0.01	0.01	
	3. Equipment and Building:	a) Depreciation	100.87	40.69	0.04	0.02
		b) Lease Payments	3.68	0.00	0.00	0.00
	4. Paid Capital Interest	32.22	1.98	0.01	0.04	
	<b>Capital Costs</b>	<b>163.32</b>	<b>68.68</b>	<b>0.07</b>	<b>0.07</b>	
<hr/>						
<b>(D)</b>	<b>Cash Costs</b>	<b>420.68</b>	<b>313.92</b>	<b>0.18</b>	<b>0.20</b>	
<b>(E)</b>	<b>Total Production Costs</b>	<b>542.21</b>	<b>376.02</b>	<b>0.23</b>	<b>0.23</b>	
	<b>Gross Margin</b>	<b>332.80</b>	<b>779.16</b>	<b>0.14</b>	<b>0.38</b>	
	<b>Return to Unpaid Labour</b>	<b>231.93</b>	<b>738.47</b>	<b>0.10</b>	<b>0.35</b>	
	<b>Return to Investment</b>	<b>243.49</b>	<b>719.04</b>	<b>0.10</b>	<b>0.38</b>	
	<b>Return to Equity</b>	<b>211.27</b>	<b>717.06</b>	<b>0.09</b>	<b>0.34</b>	

**Investment**

Buildings	60.00	115.66
Machinery	801.18	209.93
Irrigation Machinery	286.85	179.37
<b>Total (incl. Land)</b>	<b>3814.88</b>	<b>3004.96</b>

**Management**

Average Yield	(Pound/acre)	2369.45	1898.19
Expected Market Price	(\$/Pound)	0.24	0.26

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Tonne -----		
		Average	Top 1/3	Average	Top 1/3	
<b>(A)</b>	1. Crop Sales	31146.60	--	1074.83	--	
	2. Crop Insurance Receipts	0.00	--	0.00	--	
	3. Other Receipts	0.00	--	0.00	--	
	<b>Gross Receipts</b>	<b>31146.60</b>	<b>0.00</b>	<b>1074.83</b>	<b>0.00</b>	
<b>(B)</b>	<b>Cost Items</b>					
	1. Seed	222.37	--	7.67	--	
	2. Fertilizer	72.50	--	2.50	--	
	3. Chemical	84.59	--	2.92	--	
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--	
	5. Trucking and Marketing	314.79	--	10.86	--	
	6. Fuel	198.55	--	6.85	--	
	7. Irrigation Fuel and Electricity	0.00	--	0.00	--	
	8. Repairs - Machinery	513.85	--	17.73	--	
	9. Repairs - Buildings	5.23	--	0.18	--	
	10. Utilities and Miscellaneous	1128.00	--	38.93	--	
	11. Custom Work	0.00	--	0.00	--	
	12. Operating Interest Paid	26.29	--	0.91	--	
	13. Paid Labour	952.65	--	32.87	--	
	14. Unpaid Labour	0.00	--	0.00	--	
	<b>Variable Costs</b>	<b>3518.82</b>	<b>0.00</b>	<b>121.43</b>	<b>0.00</b>	
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	--	0.00	--	
	2. Taxes, Water Rates, License & Ins.	148.07	--	5.11	--	
	3. Equipment and Building:	a) Depreciation	434.85	--	15.01	--
		b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	133.63	--	4.61	--	
	<b>Capital Costs</b>	<b>716.55</b>	<b>0.00</b>	<b>24.73</b>	<b>0.00</b>	
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>3800.52</b>	--	<b>131.15</b>	--	
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>4235.37</b>	--	<b>146.16</b>	--	
	<b>Gross Margin (A-D)</b>	<b>27346.08</b>	--	<b>943.68</b>	--	
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>26911.23</b>	--	<b>928.68</b>	--	
	<b>Return to Investment (A-E+C4)</b>	<b>27044.86</b>	--	<b>933.29</b>	--	
	<b>Return to Equity (A-E)</b>	<b>26911.23</b>	--	<b>928.68</b>	--	

**Investment**

Buildings	1919.43	--
Machinery	3629.46	--
Irrigation Machinery	68.96	--
<b>Total (incl. Land)</b>	<b>8217.85</b>	--

**Management**

Average Yield (Tonne/acre)	28.98	--
Expected Market Price (\$/Tonne)	1074.83	--

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** Processing Potatoes - All  
**Soil Zone:** - Irrigated  
**Unit:** Tonne

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	2479.50	--	157.40	--
	2. Crop Insurance Receipts	27.02	--	1.71	--
	3. Other Receipts	0.63	--	0.04	--
<b>Gross Receipts</b>		<b>2507.15</b>	<b>0.00</b>	<b>159.15</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	205.00	--	13.01	--
	2. Fertilizer	150.19	--	9.53	--
	3. Chemical	153.30	--	9.73	--
	4. Hail/Crop Insurance Premium	32.20	--	2.04	--
	5. Trucking and Marketing	20.69	--	1.31	--
	6. Fuel	86.03	--	5.46	--
	7. Irrigation Fuel and Electricity	14.61	--	0.93	--
	8. Repairs - Machinery	187.05	--	11.87	--
	9. Repairs - Buildings	18.16	--	1.15	--
	10. Utilities and Miscellaneous	164.79	--	10.46	--
	11. Custom Work	39.06	--	2.48	--
	12. Operating Interest Paid	12.64	--	0.80	--
	13. Paid Labour	19.27	--	1.22	--
	14. Unpaid Labour	7.67	--	0.49	--
<b>Variable Costs</b>		<b>1110.64</b>	<b>0.00</b>	<b>70.50</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	59.92	--	3.80	--
	2. Taxes, Water Rates, License & Ins.	55.68	--	3.53	--
	3. Equipment and Building: a) Depreciation	362.48	--	23.01	--
	b) Lease Payments	26.17	--	1.66	--
	4. Paid Capital Interest	256.97	--	16.31	--
<b>Capital Costs</b>		<b>761.22</b>	<b>0.00</b>	<b>48.32</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>1501.71</b>	--	<b>95.33</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>1871.86</b>	--	<b>118.83</b>	--
	<b>Gross Margin (A-D)</b>	<b>1005.44</b>	--	<b>63.83</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>642.96</b>	--	<b>40.82</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>892.26</b>	--	<b>56.64</b>	--
	<b>Return to Equity (A-E)</b>	<b>635.29</b>	--	<b>40.33</b>	--

**Investment**

Buildings	1549.43	--
Machinery	2744.65	--
Irrigation Machinery	391.91	--
<b>Total (incl. Land)</b>	<b>6878.06</b>	--

**Management**

Average Yield (Tonne/acre)	15.75	--
Expected Market Price (\$/Tonne)	157.40	--



## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	273.61	342.92	65.14	76.97
	2. Crop Insurance Receipts	0.00	0.00	0.00	0.00
	3. Other Receipts	0.24	0.01	0.06	0.00
<b>Gross Receipts</b>		<b>273.85</b>	<b>342.93</b>	<b>65.20</b>	<b>76.98</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	10.97	11.31	2.61	2.54
	2. Fertilizer	13.85	20.27	3.30	4.55
	3. Chemical	0.92	0.00	0.22	0.00
	4. Hail/Crop Insurance Premium	0.00	0.00	0.00	0.00
	5. Trucking and Marketing	1.11	0.00	0.26	0.00
	6. Fuel	7.95	7.41	1.89	1.66
	7. Irrigation Fuel and Electricity	16.78	20.17	4.00	4.53
	8. Repairs - Machinery	10.85	5.29	2.58	1.19
	9. Repairs - Buildings	19.20	0.11	4.57	0.03
	10. Utilities and Miscellaneous	17.04	9.82	4.06	2.21
	11. Custom Work	18.10	33.46	4.31	7.51
	12. Operating Interest Paid	9.21	2.13	2.19	0.48
	13. Paid Labour	6.94	10.17	1.65	2.28
	14. Unpaid Labour	8.72	10.13	2.08	2.27
<b>Variable Costs</b>		<b>141.63</b>	<b>130.29</b>	<b>33.72</b>	<b>29.24</b>
<b>(C)</b>	1. Cash/ Share Land Rent	29.10	10.25	6.93	2.30
	2. Taxes, Water Rates, License & Ins.	19.36	19.78	4.61	4.44
	3. Equipment and Building: a) Depreciation	50.92	45.15	12.12	10.13
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	6.27	0.81	1.49	17.06
<b>Capital Costs</b>		<b>105.65</b>	<b>75.98</b>	<b>25.15</b>	<b>33.93</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>187.64</b>	<b>150.99</b>	<b>44.67</b>	<b>50.76</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>247.28</b>	<b>206.27</b>	<b>58.87</b>	<b>63.17</b>
	<b>Gross Margin (A-D)</b>	<b>86.21</b>	<b>191.95</b>	<b>20.53</b>	<b>26.21</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>35.30</b>	<b>146.80</b>	<b>8.40</b>	<b>16.08</b>
	<b>Return to Investment (A-E+C4)</b>	<b>32.84</b>	<b>137.47</b>	<b>7.82</b>	<b>30.86</b>
	<b>Return to Equity (A-E)</b>	<b>26.57</b>	<b>136.66</b>	<b>6.33</b>	<b>13.80</b>

**Investment**

Buildings	37.59	33.07
Machinery	274.67	202.23
Irrigation Machinery	260.02	306.42
<b>Total (incl. Land)</b>	<b>1893.28</b>	<b>2425.95</b>

**Management**

Average Yield (Tonne/acre)	4.20	4.46
Expected Market Price (\$/Tonne)	65.14	76.97

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

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

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	247.92	334.15	60.29	75.22
	2. Crop Insurance Receipts	0.00	0.00	0.00	0.00
	3. Other Receipts	0.15	0.00	0.04	0.00
<b>Gross Receipts</b>		<b>248.07</b>	<b>334.15</b>	<b>60.33</b>	<b>75.22</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	14.52	13.05	3.53	2.94
	2. Fertilizer	17.26	23.39	4.20	5.26
	3. Chemical	1.43	0.00	0.35	0.00
	4. Hail/Crop Insurance Premium	0.00	0.00	0.00	0.00
	5. Trucking and Marketing	0.19	0.00	0.05	0.00
	6. Fuel	6.18	6.56	1.50	1.48
	7. Irrigation Fuel and Electricity	17.75	21.87	4.32	4.92
	8. Repairs - Machinery	7.08	6.10	1.72	1.37
	9. Repairs - Buildings	8.14	0.13	1.98	0.03
	10. Utilities and Miscellaneous	11.24	8.66	2.73	1.95
	11. Custom Work	13.90	22.41	3.38	5.05
	12. Operating Interest Paid	5.60	2.04	1.36	0.46
	13. Paid Labour	9.00	9.85	2.19	2.22
	14. Unpaid Labour	8.59	10.41	2.09	2.34
<b>Variable Costs</b>		<b>120.86</b>	<b>124.48</b>	<b>29.39</b>	<b>28.02</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00
	2. Taxes, Water Rates, License & Ins.	23.85	22.82	5.80	5.14
	3. Equipment and Building: a) Depreciation	58.97	50.06	14.34	11.27
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	5.65	0.94	1.37	16.61
<b>Capital Costs</b>		<b>88.47</b>	<b>73.81</b>	<b>21.51</b>	<b>33.02</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>141.77</b>	<b>137.82</b>	<b>34.48</b>	<b>47.43</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>209.33</b>	<b>198.29</b>	<b>50.91</b>	<b>61.04</b>
	<b>Gross Margin (A-D)</b>	<b>106.30</b>	<b>196.33</b>	<b>25.85</b>	<b>27.79</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>47.33</b>	<b>146.27</b>	<b>11.51</b>	<b>16.52</b>
	<b>Return to Investment (A-E+C4)</b>	<b>44.39</b>	<b>136.79</b>	<b>10.80</b>	<b>30.79</b>
	<b>Return to Equity (A-E)</b>	<b>38.74</b>	<b>135.86</b>	<b>9.42</b>	<b>14.18</b>

**Investment**

Buildings	28.96	25.27
Machinery	238.80	217.62
Irrigation Machinery	404.82	353.51
<b>Total (incl. Land)</b>	<b>2729.21</b>	<b>2770.16</b>

**Management**

Average Yield	(Tonne/acre)	4.11	4.44
Expected Market Price	(\$/Tonne)	60.29	75.22

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** Alfalfa Hay - Rent  
**Soil Zone:** - Irrigated  
**Unit:** Tonne

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	319.75	--	73.36	--
	2. Crop Insurance Receipts	0.00	--	0.00	--
	3. Other Receipts	0.40	--	0.09	--
	<b>Gross Receipts</b>	<b>320.15</b>	<b>0.00</b>	<b>73.45</b>	<b>0.00</b>
<b>(B) Cost Items</b>					
	1. Seed	4.58	--	1.05	--
	2. Fertilizer	7.72	--	1.77	--
	3. Chemical	0.00	--	0.00	--
	4. Hail/Crop Insurance Premium	0.00	--	0.00	--
	5. Trucking and Marketing	2.77	--	0.64	--
	6. Fuel	11.12	--	2.55	--
	7. Irrigation Fuel and Electricity	15.05	--	3.45	--
	8. Repairs - Machinery	17.62	--	4.04	--
	9. Repairs - Buildings	39.07	--	8.96	--
	10. Utilities and Miscellaneous	27.45	--	6.30	--
	11. Custom Work	25.63	--	5.88	--
	12. Operating Interest Paid	15.69	--	3.60	--
	13. Paid Labour	3.25	--	0.74	--
	14. Unpaid Labour	8.97	--	2.06	--
	<b>Variable Costs</b>	<b>178.93</b>	<b>0.00</b>	<b>41.05</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	81.37	--	18.67	--
	2. Taxes, Water Rates, License & Ins.	11.29	--	2.59	--
	3. Equipment and Building: a) Depreciation	36.45	--	8.36	--
	b) Lease Payments	0.00	--	0.00	--
4. Paid Capital Interest	7.39	--	1.70	--	
	<b>Capital Costs</b>	<b>136.51</b>	<b>0.00</b>	<b>31.32</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>270.01</b>	--	<b>61.95</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>315.44</b>	--	<b>72.37</b>	--
	<b>Gross Margin (A-D)</b>	<b>50.13</b>	--	<b>11.50</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>13.68</b>	--	<b>3.14</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>12.11</b>	--	<b>2.78</b>	--
	<b>Return to Equity (A-E)</b>	<b>4.71</b>	--	<b>1.08</b>	--

**Investment**

Buildings	53.08	--
Machinery	339.09	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>392.17</b>	--

**Management**

Average Yield (Tonne/acre)	4.36	--
Expected Market Price (\$/Tonne)	73.36	--

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** Grain Silage - All  
**Soil Zone:** - Irrigated  
**Unit:** Tonne

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	343.83	397.33	34.77	40.32
	2. Crop Insurance Receipts	1.46	3.26	0.15	0.33
	3. Other Receipts	11.30	0.00	1.14	0.00
	<b>Gross Receipts</b>	<b>356.59</b>	<b>400.60</b>	<b>36.06</b>	<b>40.65</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	11.30	9.97	1.14	1.01
	2. Fertilizer	27.33	34.45	2.76	3.50
	3. Chemical	9.61	7.80	0.97	0.79
	4. Hail/Crop Insurance Premium	1.21	0.68	0.12	0.07
	5. Trucking and Marketing	0.00	0.00	0.00	0.00
	6. Fuel	14.59	9.69	1.48	0.98
	7. Irrigation Fuel and Electricity	8.28	2.39	0.84	0.24
	8. Repairs - Machinery	9.83	3.48	0.99	0.35
	9. Repairs - Buildings	4.75	0.16	0.48	0.02
	10. Utilities and Miscellaneous	6.72	4.46	0.68	0.45
	11. Custom Work	20.39	0.00	2.06	0.00
	12. Operating Interest Paid	3.18	2.72	0.32	0.28
	13. Paid Labour	16.03	13.55	1.62	1.38
	14. Unpaid Labour	7.75	5.24	0.78	0.53
	<b>Variable Costs</b>	<b>140.98</b>	<b>94.58</b>	<b>14.26</b>	<b>9.60</b>
<b>(C)</b>	1. Cash/ Share Land Rent	20.54	5.58	2.08	0.57
	2. Taxes, Water Rates, License & Ins.	14.65	15.98	1.48	1.62
	3. Equipment and Building: a) Depreciation	29.99	27.37	3.03	2.78
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	4.31	0.92	0.44	5.06
	<b>Capital Costs</b>	<b>69.49</b>	<b>49.84</b>	<b>7.03</b>	<b>10.02</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>172.73</b>	<b>111.82</b>	<b>17.47</b>	<b>16.31</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>210.47</b>	<b>144.42</b>	<b>21.28</b>	<b>19.62</b>
	<b>Gross Margin (A-D)</b>	<b>183.86</b>	<b>288.78</b>	<b>18.59</b>	<b>24.34</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>153.87</b>	<b>261.41</b>	<b>15.56</b>	<b>21.56</b>
	<b>Return to Investment (A-E+C4)</b>	<b>150.43</b>	<b>257.09</b>	<b>15.21</b>	<b>26.09</b>
	<b>Return to Equity (A-E)</b>	<b>146.12</b>	<b>256.17</b>	<b>14.78</b>	<b>21.03</b>

**Investment**

Buildings	32.34	29.03
Machinery	198.32	231.83
Irrigation Machinery	127.86	70.01
<b>Total (incl. Land)</b>	<b>1974.90</b>	<b>2159.13</b>

**Management**

Average Yield (Tonne/acre)	9.89	9.85
Expected Market Price (\$/Tonne)	34.77	40.32

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** Grain Silage - Own  
**Soil Zone:** - Irrigated  
**Unit:** Tonne

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	366.52	400.06	36.09	40.00
	2. Crop Insurance Receipts	0.00	0.00	0.00	0.00
	3. Other Receipts	9.35	0.00	0.92	0.00
<b>Gross Receipts</b>		<b>375.87</b>	<b>400.06</b>	<b>37.01</b>	<b>40.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	12.05	10.10	1.19	1.01
	2. Fertilizer	29.49	33.77	2.90	3.38
	3. Chemical	9.87	6.62	0.97	0.66
	4. Hail/Crop Insurance Premium	0.81	0.00	0.08	0.00
	5. Trucking and Marketing	0.00	0.00	0.00	0.00
	6. Fuel	12.40	9.41	1.22	0.94
	7. Irrigation Fuel and Electricity	7.12	1.67	0.70	0.17
	8. Repairs - Machinery	8.22	3.21	0.81	0.32
	9. Repairs - Buildings	2.02	0.17	0.20	0.02
	10. Utilities and Miscellaneous	5.09	4.06	0.50	0.41
	11. Custom Work	22.19	0.00	2.18	0.00
	12. Operating Interest Paid	2.23	2.61	0.22	0.26
	13. Paid Labour	17.95	12.58	1.77	1.26
	14. Unpaid Labour	8.62	5.25	0.85	0.52
<b>Variable Costs</b>		<b>138.06</b>	<b>89.44</b>	<b>13.59</b>	<b>8.94</b>
<b>(C)</b>	1. Cash/ Share Land Rent	0.00	0.00	0.00	0.00
	2. Taxes, Water Rates, License & Ins.	17.99	17.44	1.77	1.74
	3. Equipment and Building: a) Depreciation	34.07	24.73	3.35	2.47
	b) Lease Payments	0.00	0.00	0.00	0.00
	4. Paid Capital Interest	4.31	0.98	0.42	4.31
<b>Capital Costs</b>		<b>56.38</b>	<b>43.15</b>	<b>5.55</b>	<b>8.53</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>151.74</b>	<b>102.62</b>	<b>14.94</b>	<b>14.48</b>
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>194.44</b>	<b>132.59</b>	<b>19.14</b>	<b>17.47</b>
	<b>Gross Margin (A-D)</b>	<b>224.13</b>	<b>297.45</b>	<b>22.07</b>	<b>25.52</b>
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>190.05</b>	<b>272.72</b>	<b>18.71</b>	<b>23.05</b>
	<b>Return to Investment (A-E+C4)</b>	<b>185.74</b>	<b>268.45</b>	<b>18.29</b>	<b>26.84</b>
	<b>Return to Equity (A-E)</b>	<b>181.43</b>	<b>267.47</b>	<b>17.86</b>	<b>22.53</b>

**Investment**

Buildings	34.09	26.24
Machinery	208.16	226.61
Irrigation Machinery	169.91	48.87
<b>Total (incl. Land)</b>	<b>2448.43</b>	<b>2301.72</b>

**Management**

Average Yield	(Tonne/acre)	10.16	10.00
Expected Market Price	(\$/Tonne)	36.09	40.00

## 2004 Crop Enterprise Analysis

*AgriProfit\$*

**Crop:** Grain Silage - Rent  
**Soil Zone:** - Irrigated  
**Unit:** Tonne

		----- \$/Acre -----		----- \$/Tonne -----	
		Average	Top 1/3	Average	Top 1/3
<b>(A)</b>	1. Crop Sales	279.56	--	29.37	--
	2. Crop Insurance Receipts	8.24	--	0.87	--
	3. Other Receipts	8.13	--	0.85	--
<b>Gross Receipts</b>		<b>295.94</b>	<b>0.00</b>	<b>31.09</b>	<b>0.00</b>
<b>(B)</b>	<b>Cost Items</b>				
	1. Seed	10.64	--	1.12	--
	2. Fertilizer	22.26	--	2.34	--
	3. Chemical	9.17	--	0.96	--
	4. Hail/Crop Insurance Premium	3.39	--	0.36	--
	5. Trucking and Marketing	0.00	--	0.00	--
	6. Fuel	14.21	--	1.49	--
	7. Irrigation Fuel and Electricity	9.70	--	1.02	--
	8. Repairs - Machinery	14.11	--	1.48	--
	9. Repairs - Buildings	18.20	--	1.91	--
	10. Utilities and Miscellaneous	14.93	--	1.57	--
	11. Custom Work	16.90	--	1.77	--
	12. Operating Interest Paid	8.46	--	0.89	--
	13. Paid Labour	14.19	--	1.49	--
	14. Unpaid Labour	4.51	--	0.47	--
<b>Variable Costs</b>		<b>160.67</b>	<b>0.00</b>	<b>16.88</b>	<b>0.00</b>
<b>(C)</b>	1. Cash/ Share Land Rent	103.43	--	10.87	--
	2. Taxes, Water Rates, License & Ins.	5.79	--	0.61	--
	3. Equipment and Building: a) Depreciation	16.53	--	1.74	--
	b) Lease Payments	0.00	--	0.00	--
	4. Paid Capital Interest	1.90	--	0.20	--
<b>Capital Costs</b>		<b>127.65</b>	<b>0.00</b>	<b>13.41</b>	<b>0.00</b>
<b>(D)</b>	<b>Cash Costs (B+C-B14-C3a)</b>	<b>267.28</b>	--	<b>28.08</b>	--
<b>(E)</b>	<b>Total Production Costs (B+C)</b>	<b>288.31</b>	--	<b>30.29</b>	--
	<b>Gross Margin (A-D)</b>	<b>28.66</b>	--	<b>3.01</b>	--
	<b>Return to Unpaid Labour (A-E+B14)</b>	<b>12.13</b>	--	<b>1.27</b>	--
	<b>Return to Investment (A-E+C4)</b>	<b>9.52</b>	--	<b>1.00</b>	--
	<b>Return to Equity (A-E)</b>	<b>7.62</b>	--	<b>0.80</b>	--

**Investment**

Buildings	32.60	--
Machinery	160.14	--
Irrigation Machinery	0.00	--
<b>Total (incl. Land)</b>	<b>192.74</b>	--

**Management**

Average Yield	(Tonne/acre)	9.52	--
Expected Market Price	(\$/Tonne)	29.37	--

## 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 sugar beet 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 sugar beet yield range under irrigation. From these charts a lot can be interpreted about yield performance:

- The low is less than 17 tonnes per acre and the high is greater than 23 tonnes per acre, and
- Approximately 70% of the sugar beet fields under irrigation had a yield more than 19 tonnes per acre

This detailed information provides a better understanding of yield variability. The average yield is 20.62 tonnes per acre as listed on page 27 of 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, 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 sugar beets was \$45 per tonne, then 95% of the fields are covering their cash costs and 85% 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

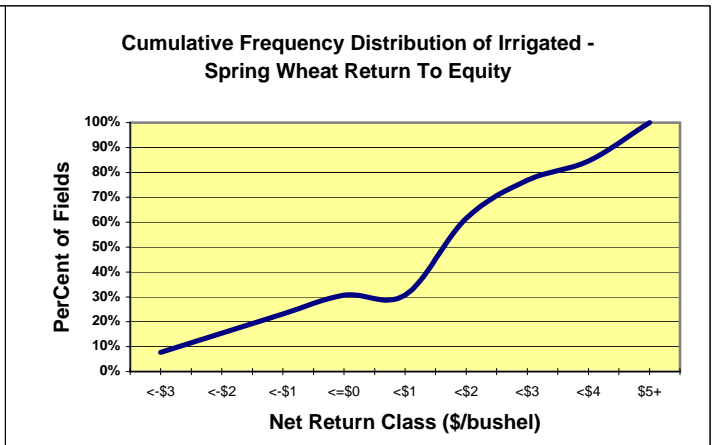
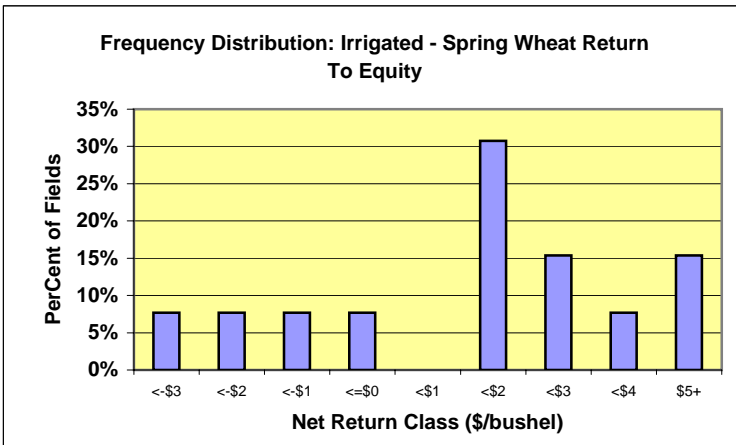
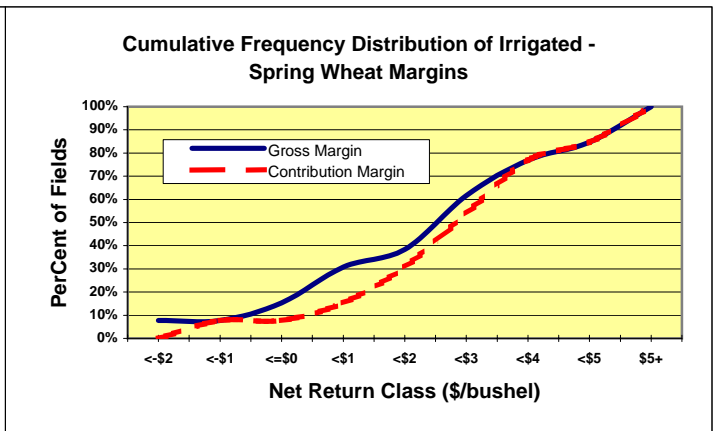
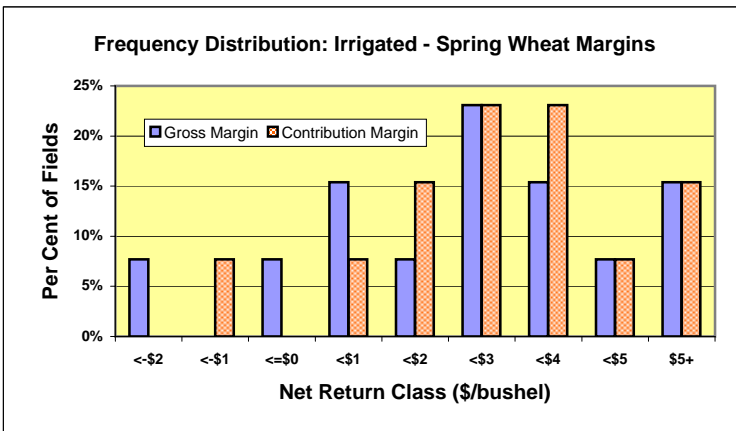
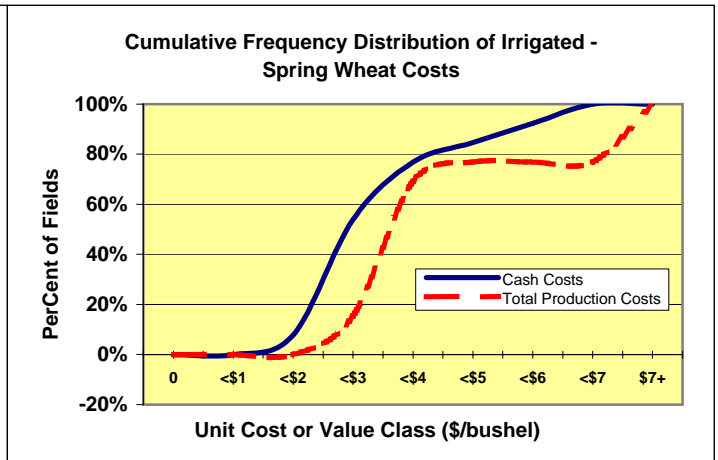
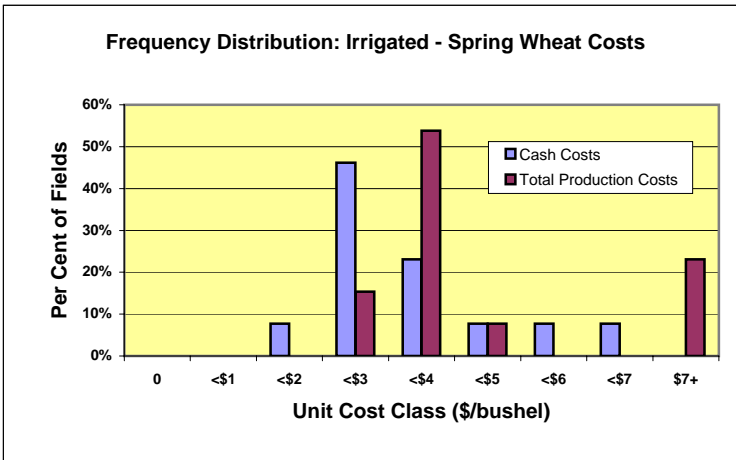
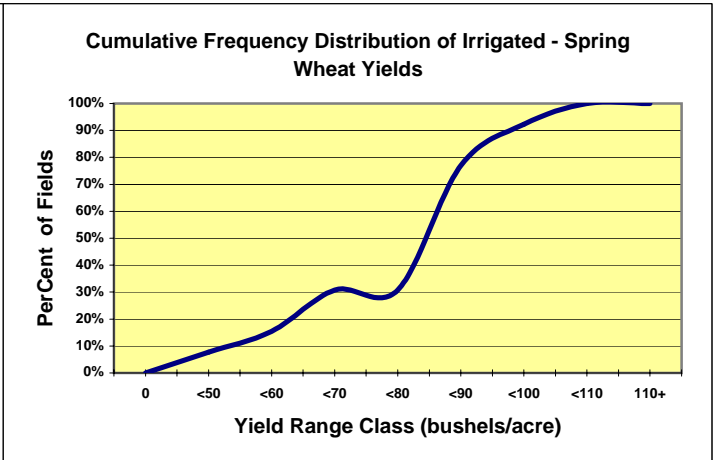
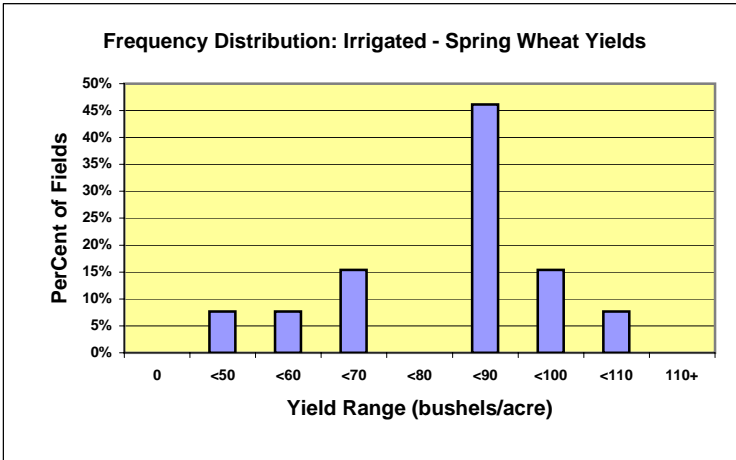
a cash flow point of view, the gross margin provides an indication of the crop's ability to contribute to principal payments and operator withdrawals. From a profitability perspective, gross margin is what is leftover to cover the non-cash costs and provide a return on investment.

The final set of graphs shows the distribution of returns to equity, or profit per unit of production. This example shows that 15% of the fields had a loss and 85% 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.

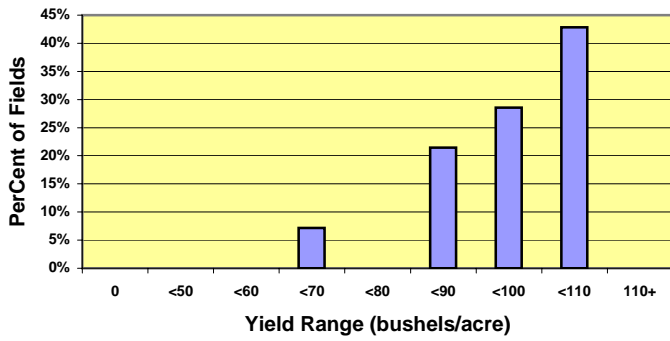
Understanding these concepts in *AgriProfit\$* and evaluating historical performance on a per bushel basis can be very useful for other AAFRD applications. For example, [CropChoice\\$](#) is a tool that combines traditional crop planning with the ability to measure the riskiness of your plan. Producers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



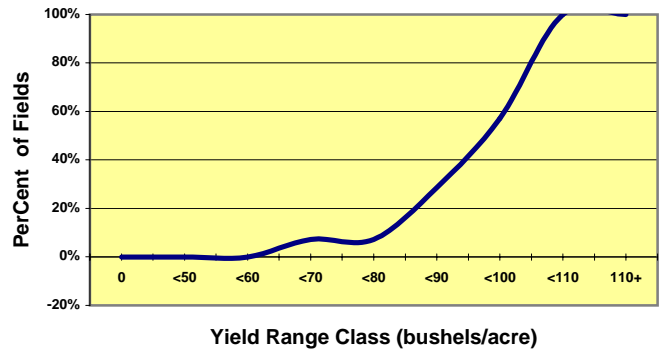
# Irrigated - Spring Wheat: 2004



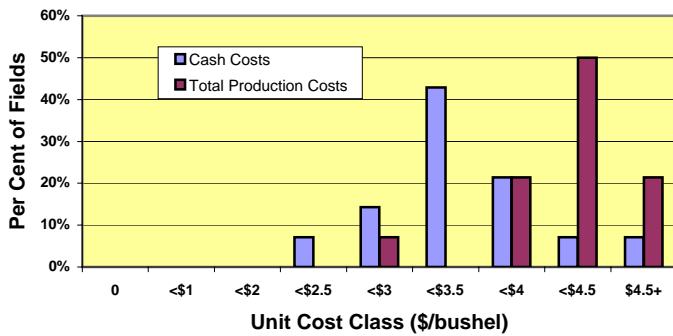
Frequency Distribution: Irrigated - Durum Yields



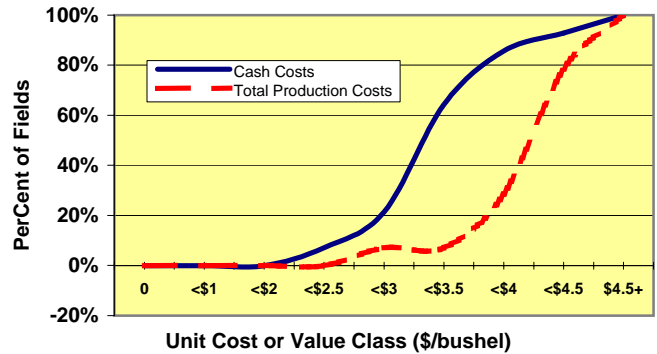
Cumulative Frequency Distribution of Irrigated - Durum Yields



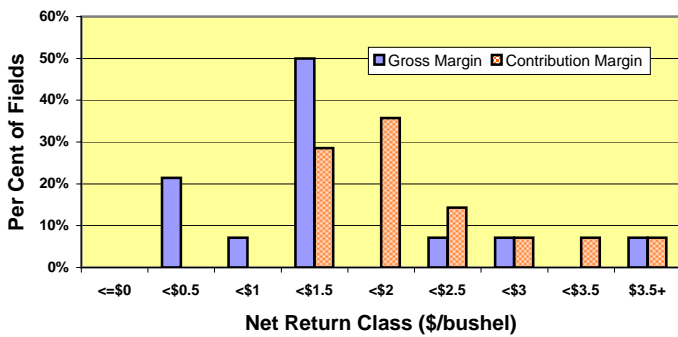
Frequency Distribution: Irrigated - Durum Costs



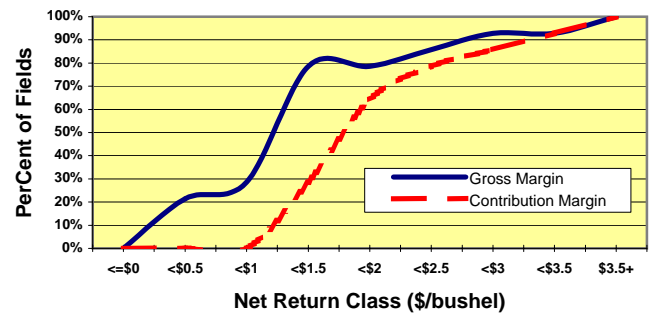
Cumulative Frequency Distribution of Irrigated - Durum Costs



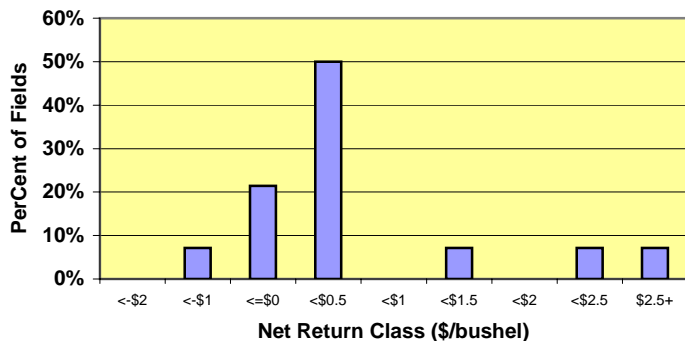
Frequency Distribution: Irrigated - Durum Margins



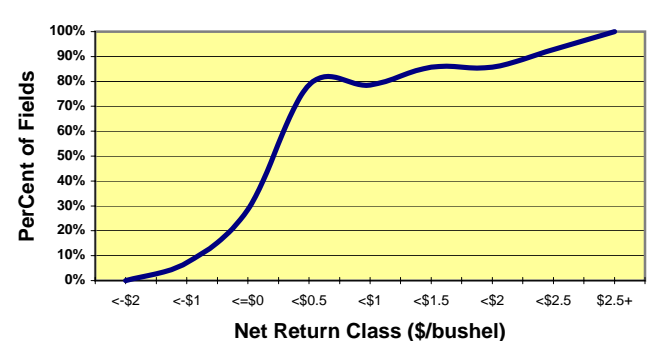
Cumulative Frequency Distribution of Irrigated - Durum Margins



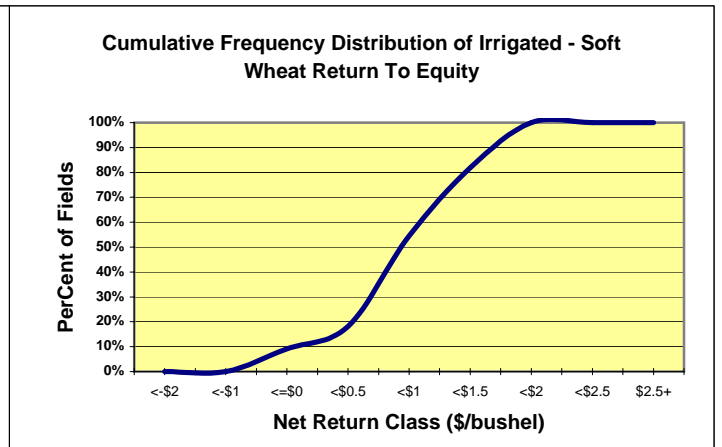
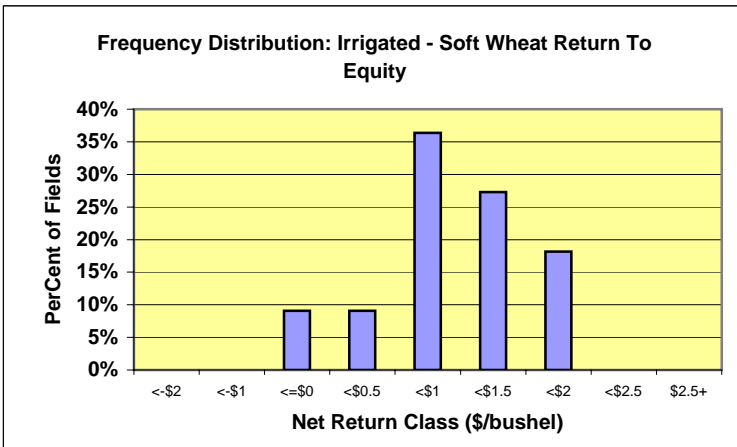
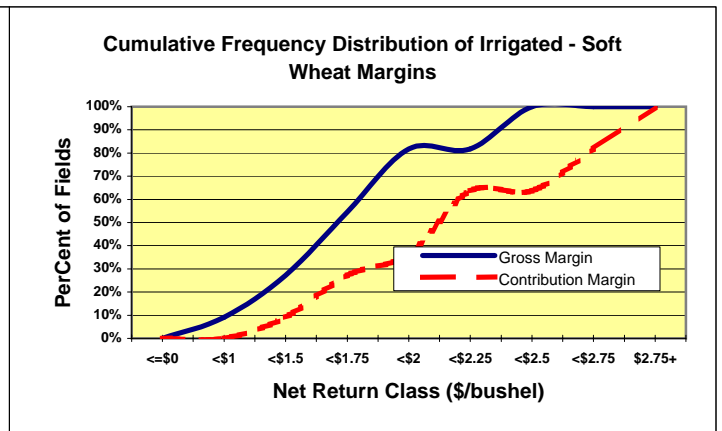
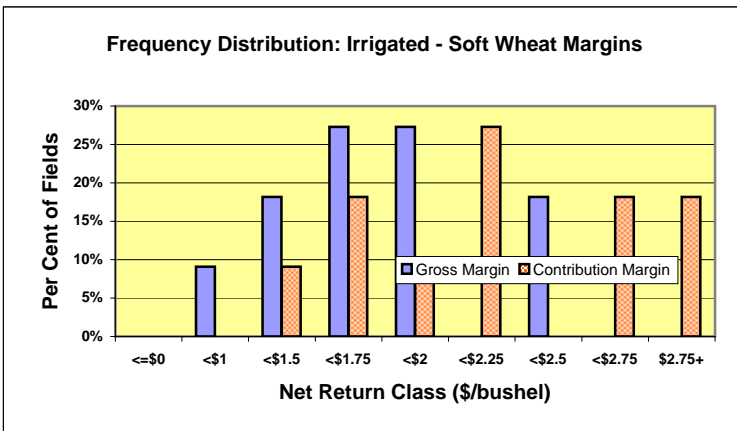
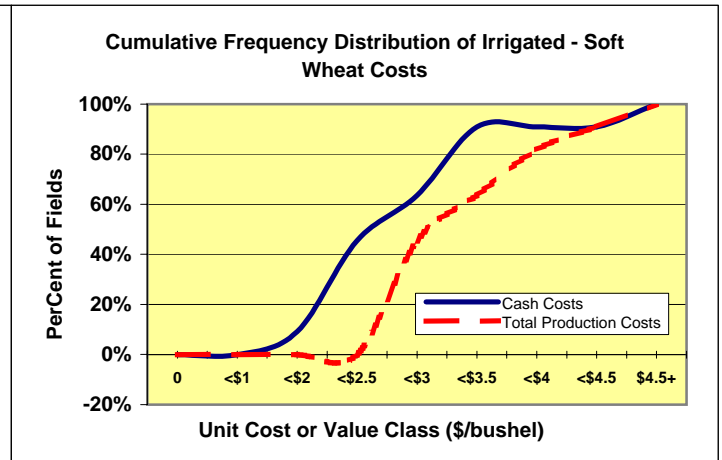
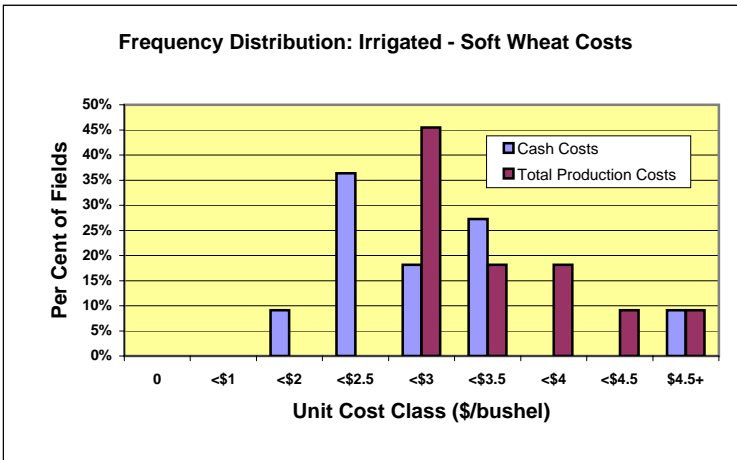
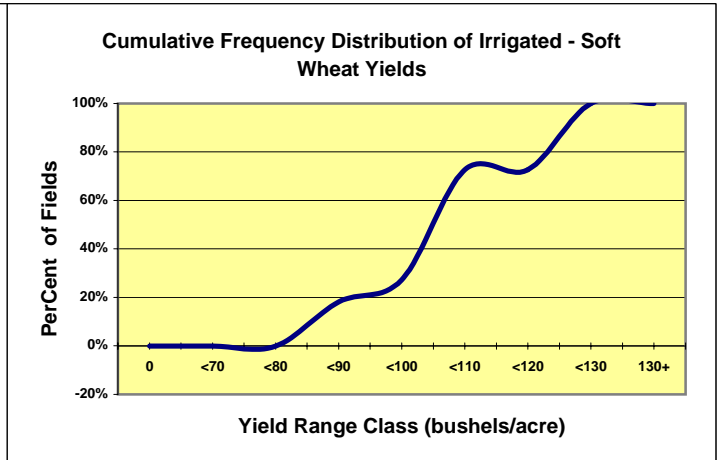
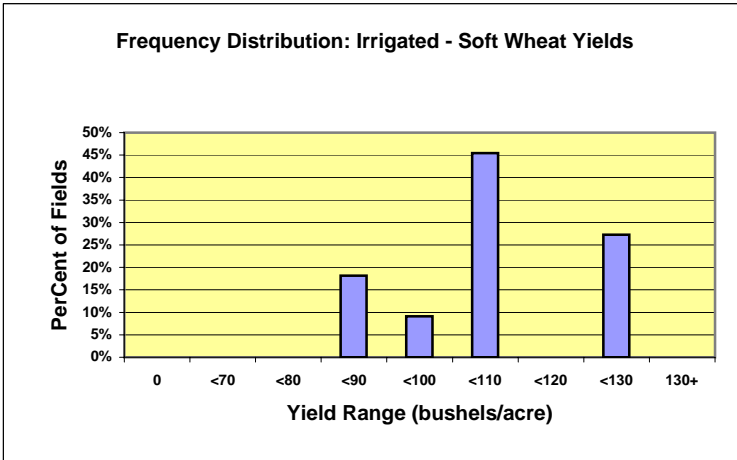
Frequency Distribution: Irrigated - Durum Return To Equity



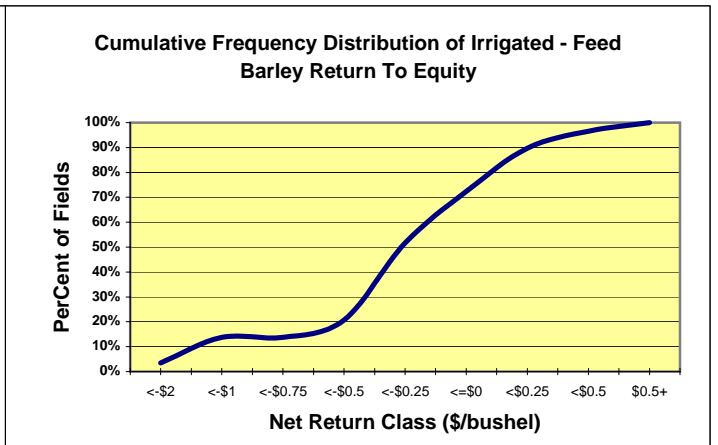
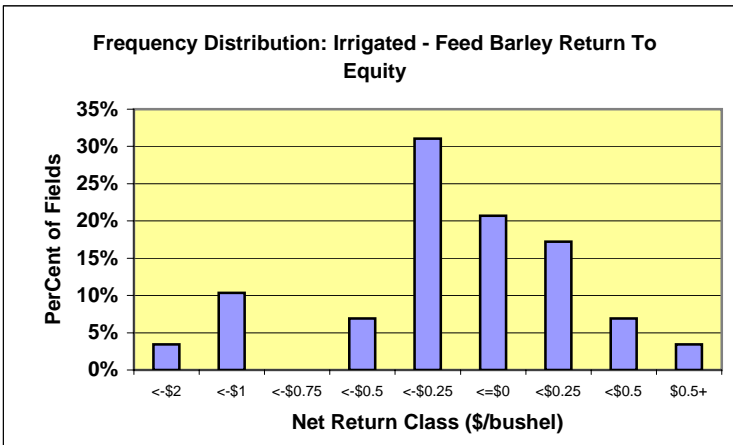
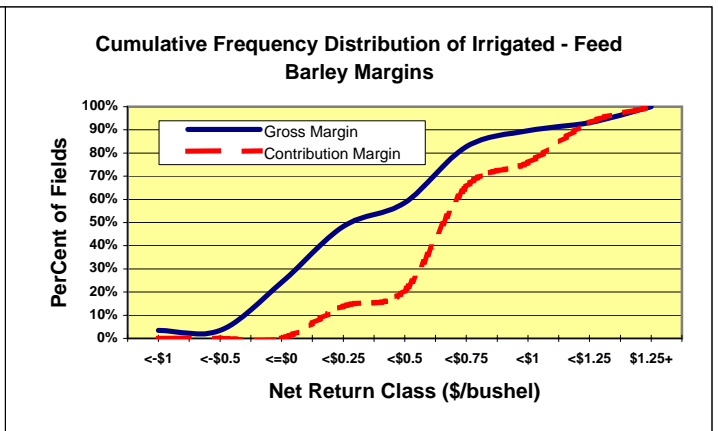
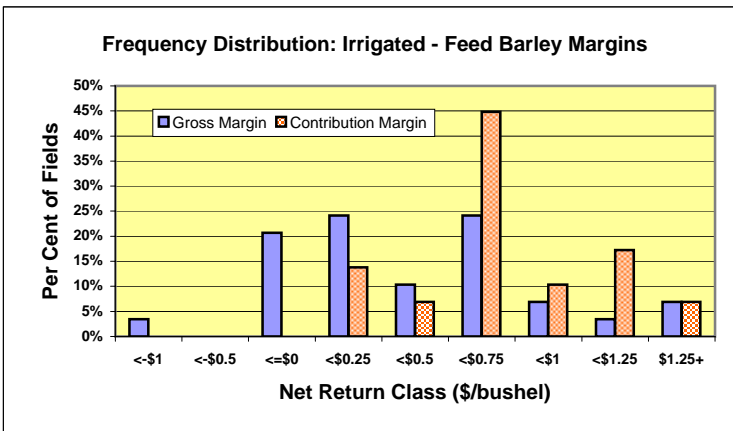
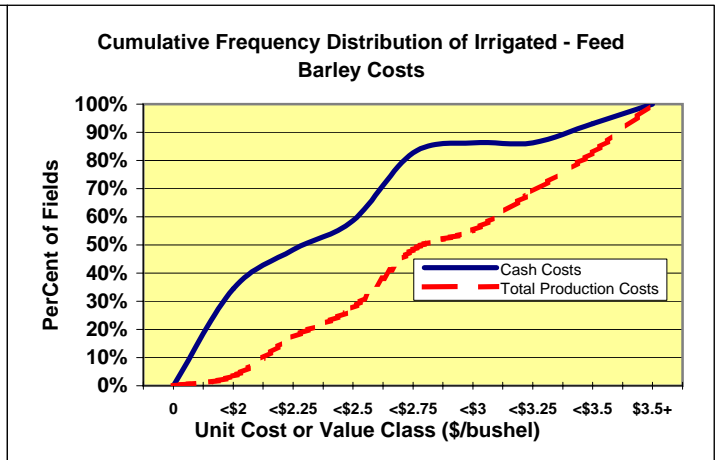
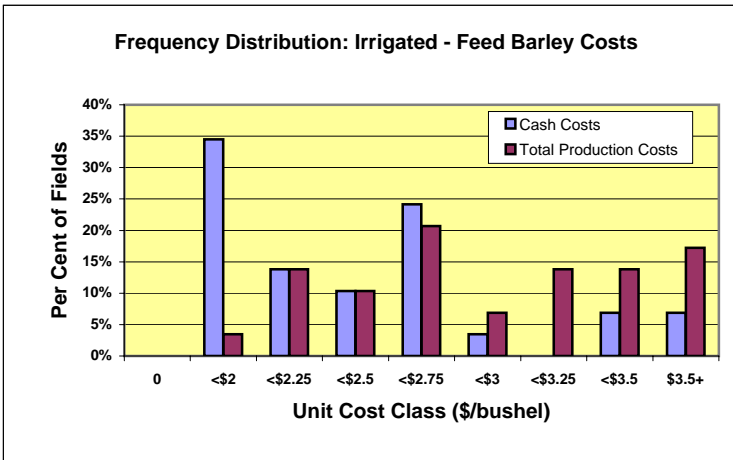
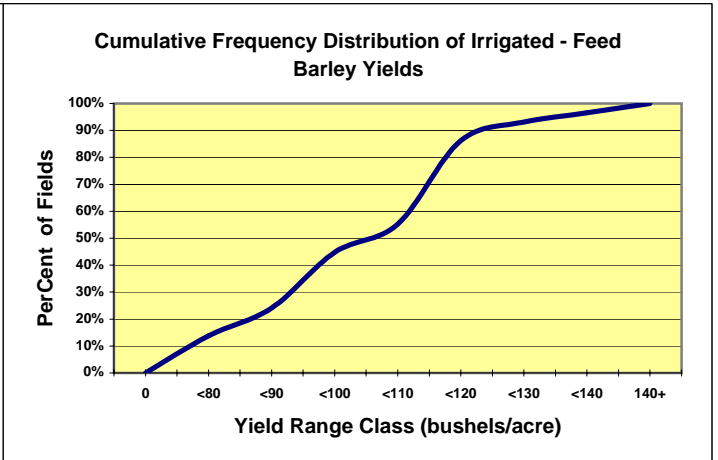
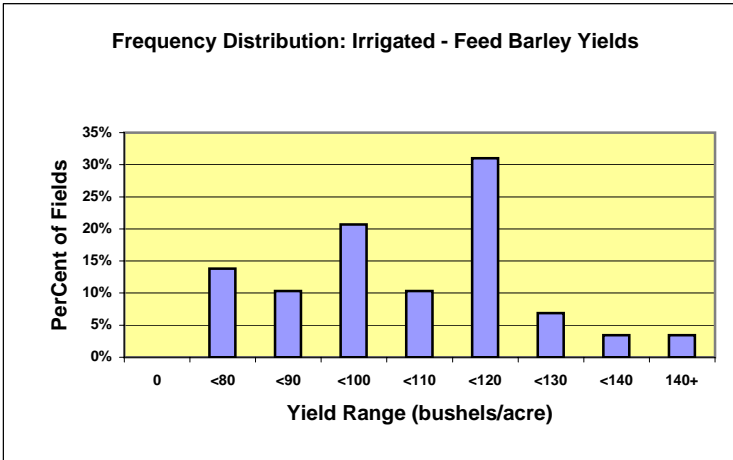
Cumulative Frequency Distribution of Irrigated - Durum Return To Equity



# Irrigated - Soft Wheat: 2004



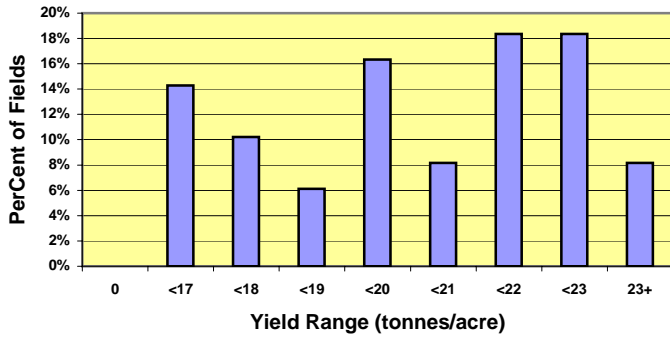
# Irrigated - Feed Barley: 2004



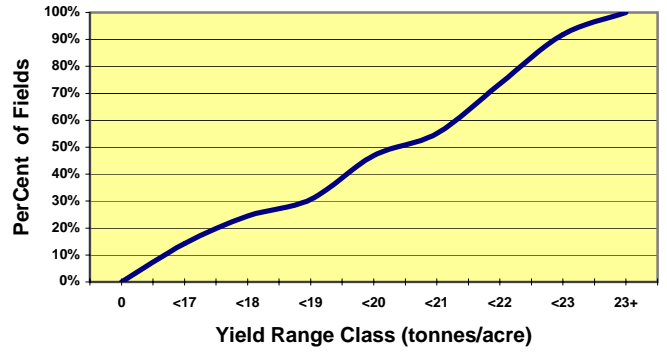
# Irrigated - Sugar Beets: 2004

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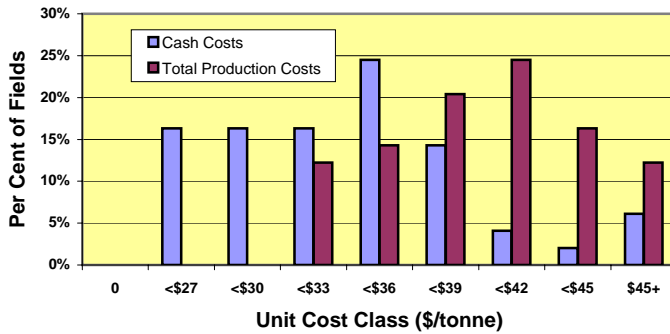
Frequency Distribution: Irrigated - Sugar Beets Yields



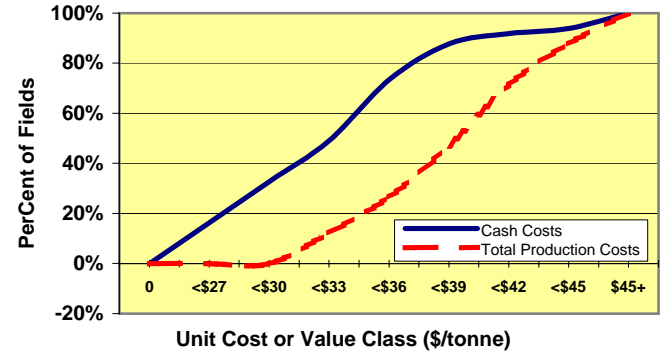
Cumulative Frequency Distribution of Irrigated - Sugar Beets Yields



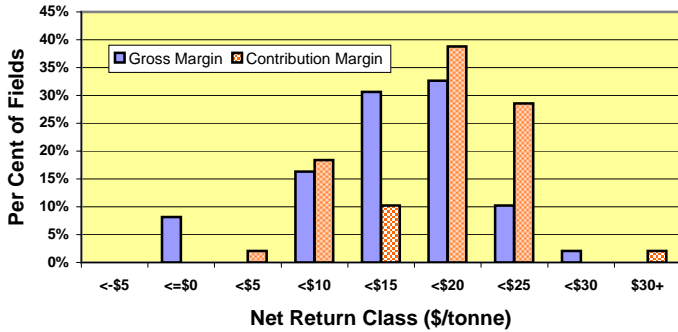
Frequency Distribution: Irrigated - Sugar Beets Costs



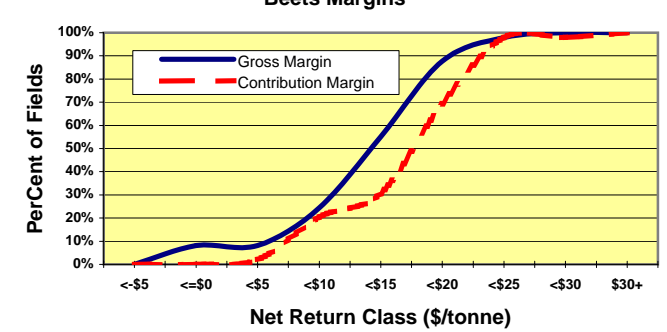
Cumulative Frequency Distribution of Irrigated - Sugar Beets Costs



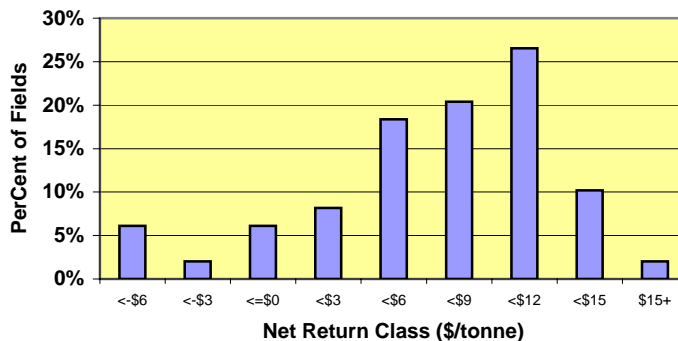
Frequency Distribution: Irrigated - Sugar Beets Margins



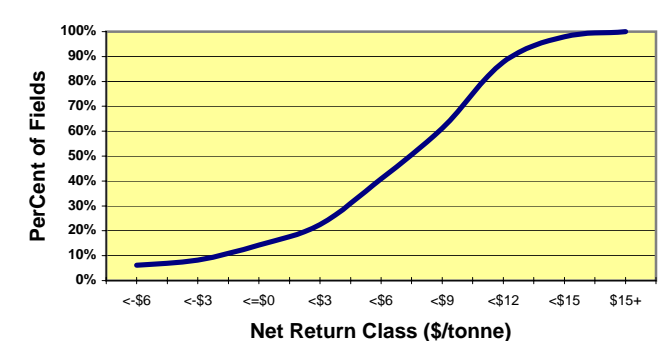
Cumulative Frequency Distribution of Irrigated - Sugar Beets Margins



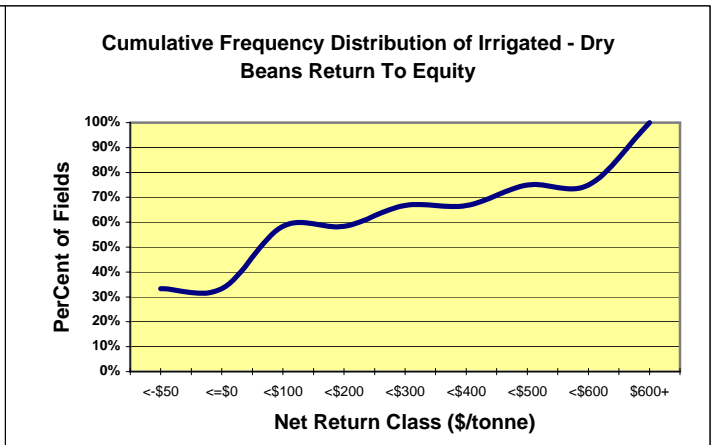
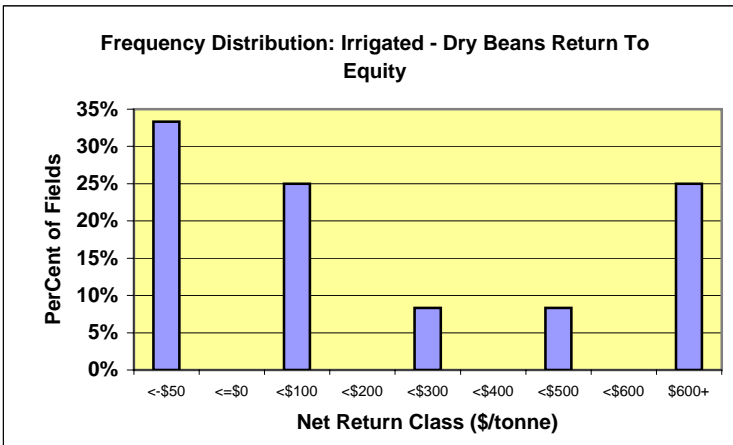
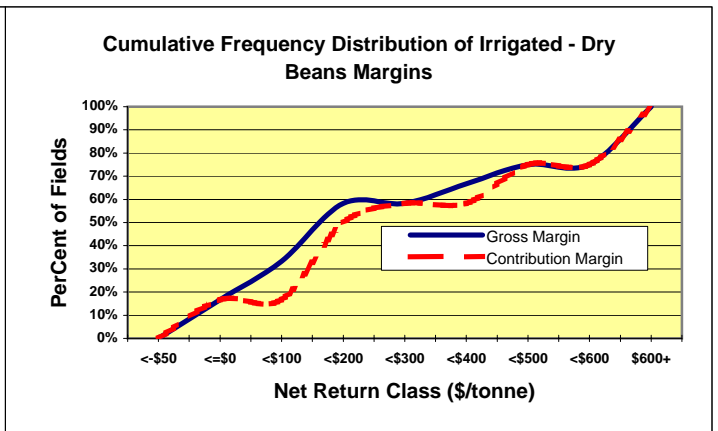
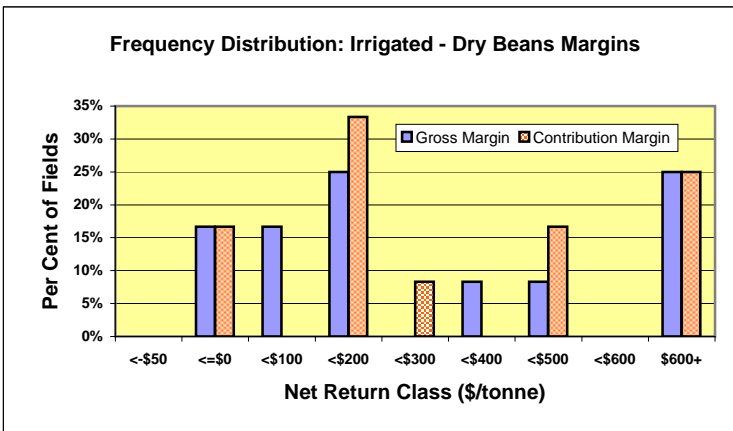
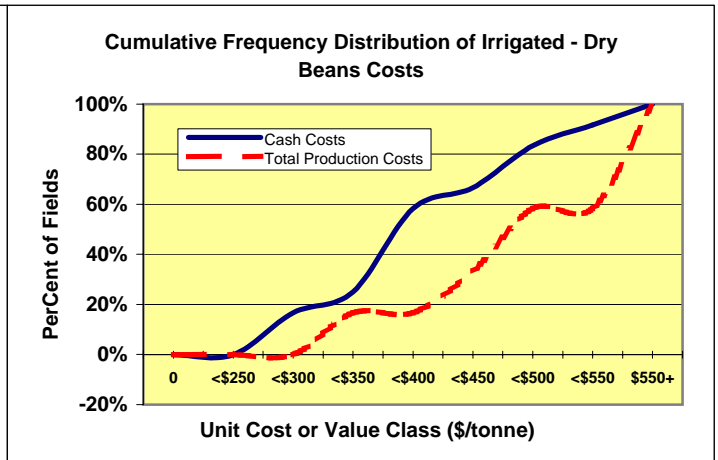
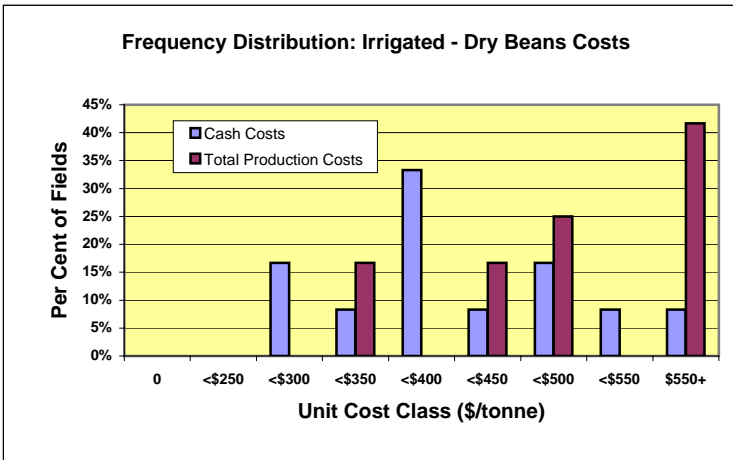
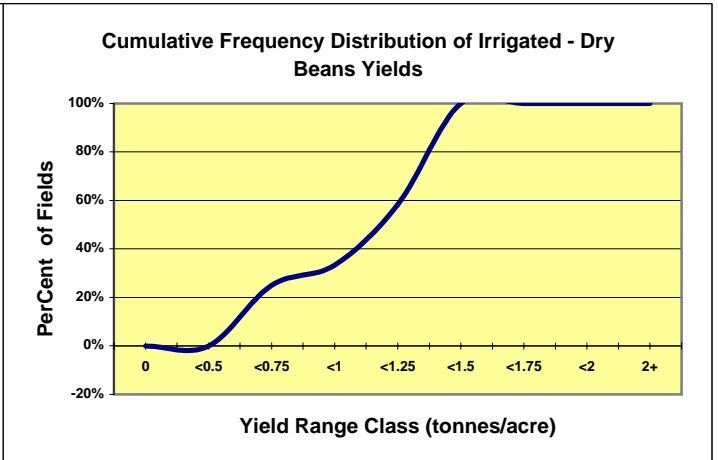
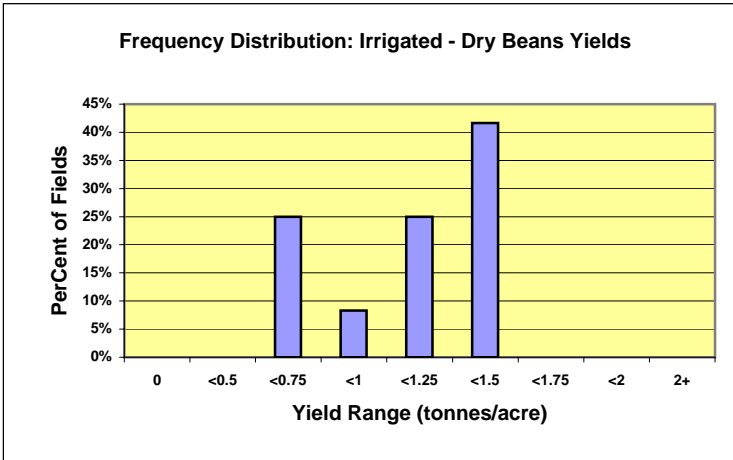
Frequency Distribution: Irrigated - Sugar Beets Return To Equity



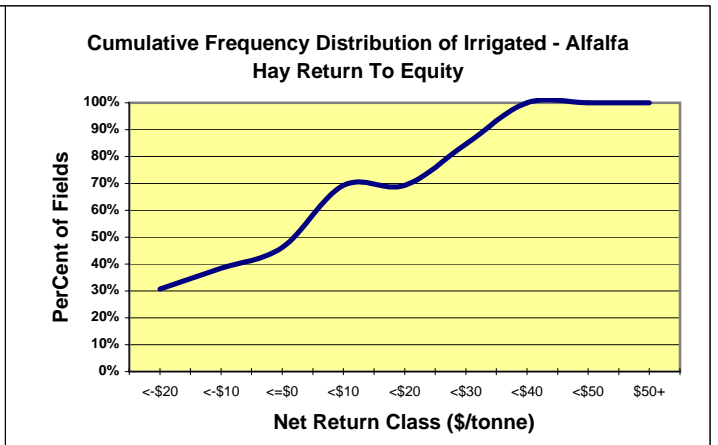
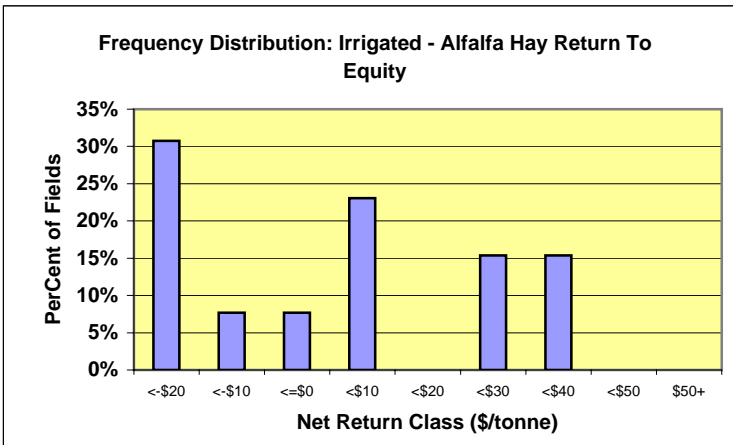
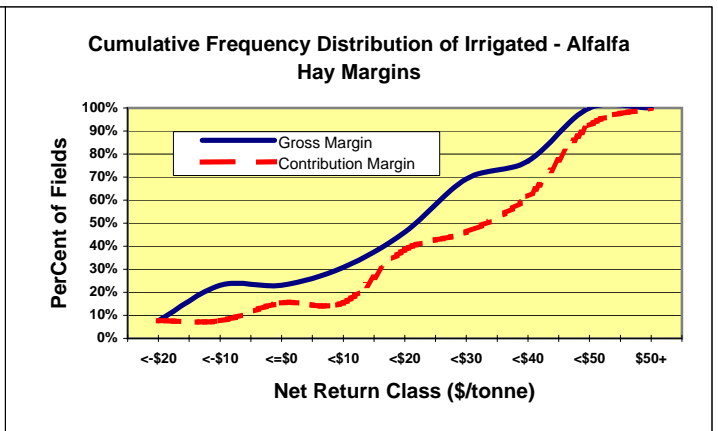
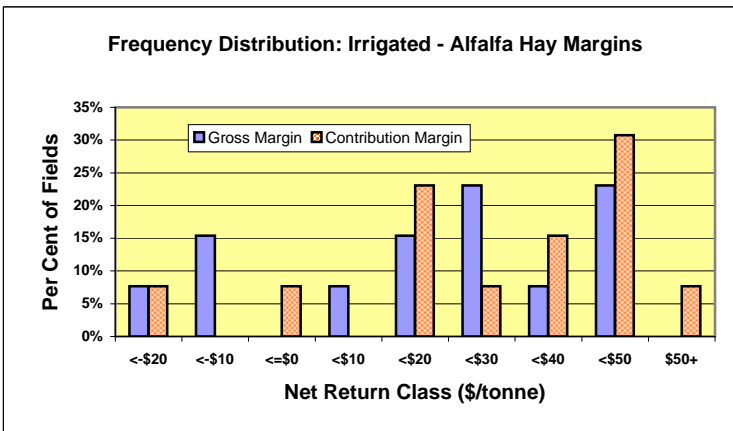
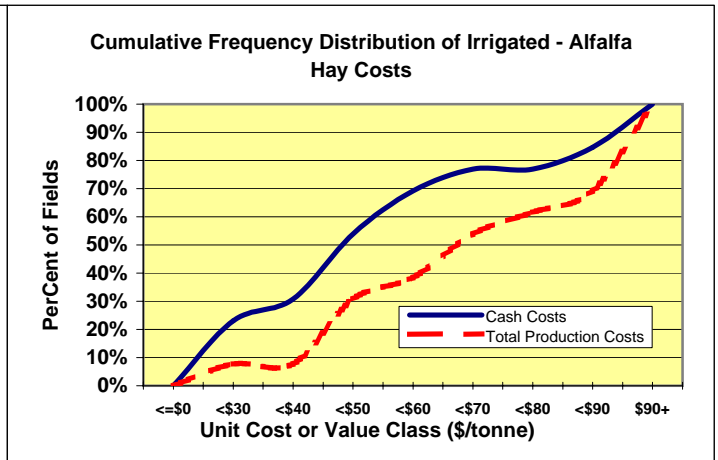
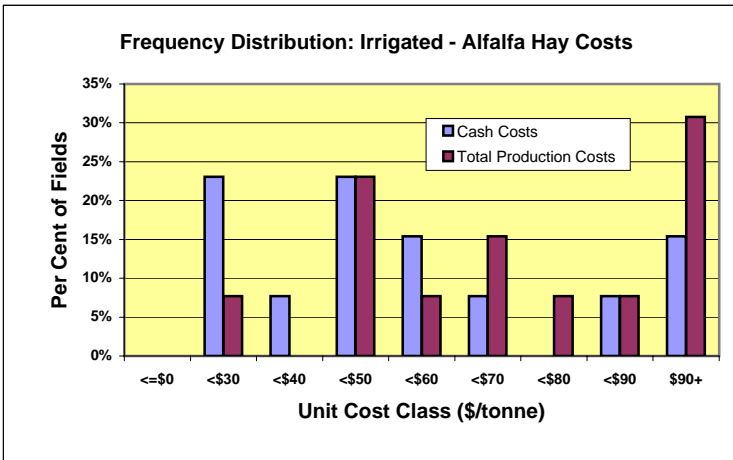
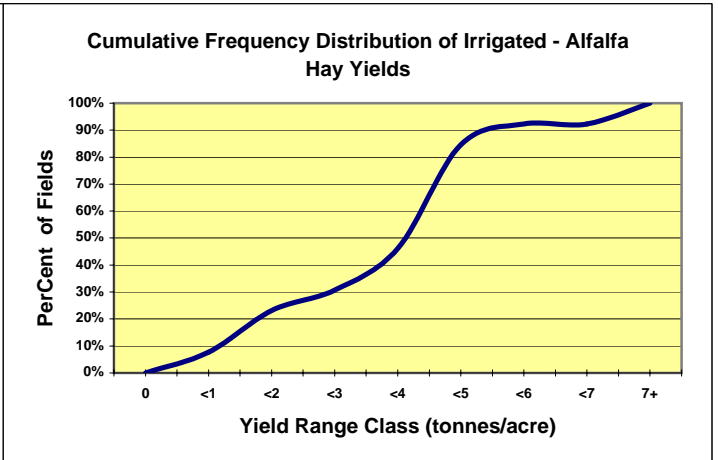
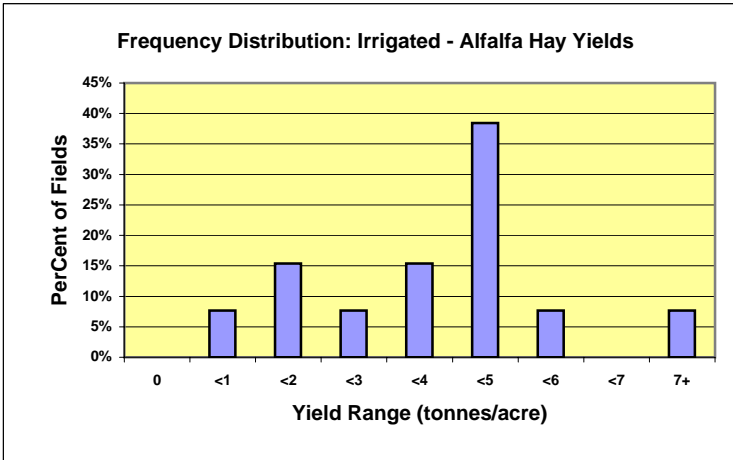
Cumulative Frequency Distribution of Irrigated - Sugar Beets Return To Equity



# Irrigated - Dry Beans: 2004

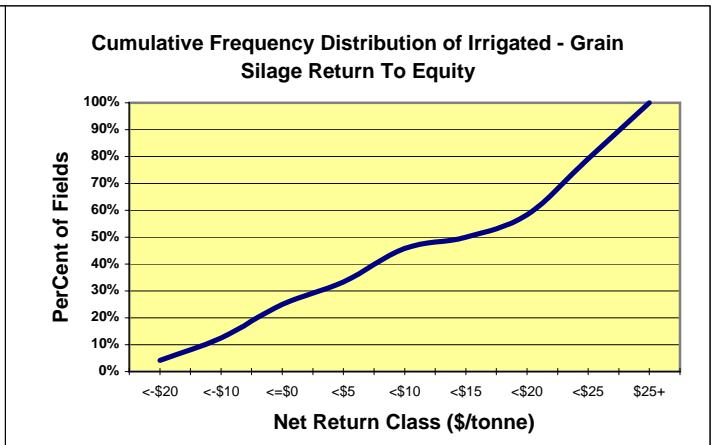
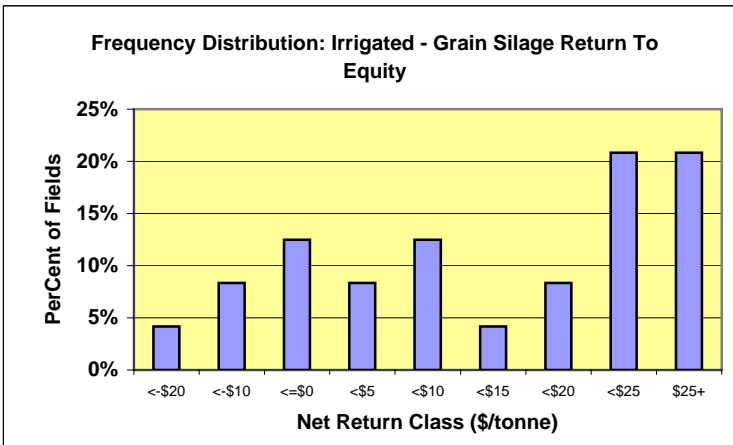
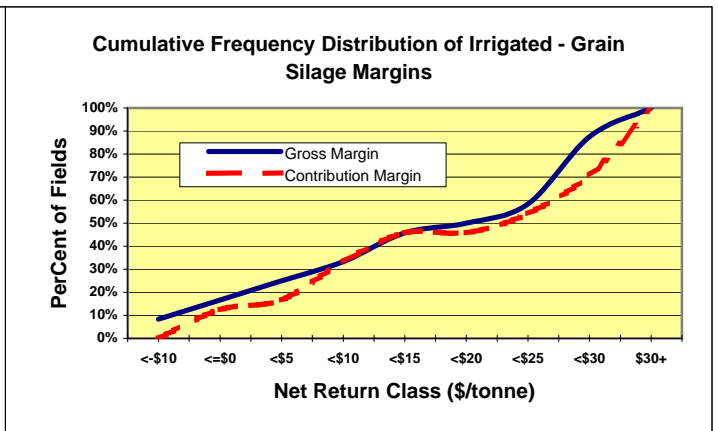
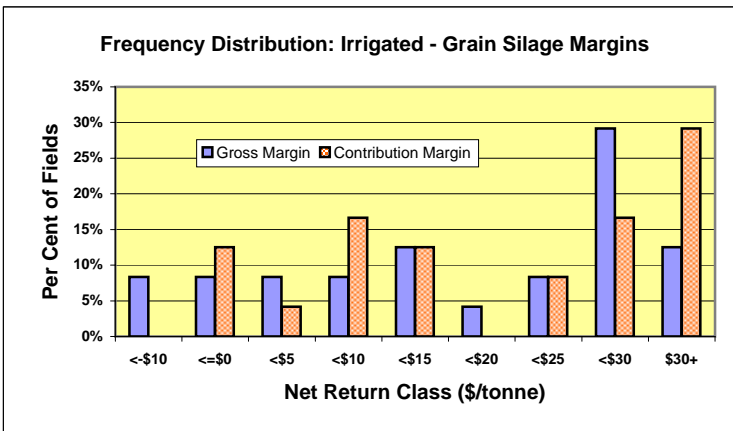
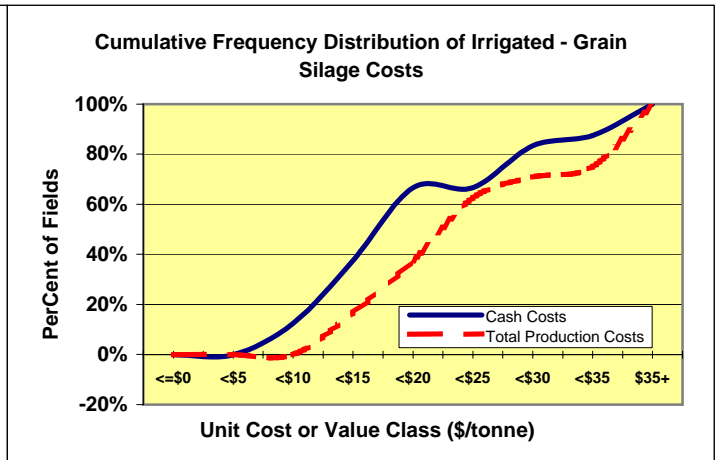
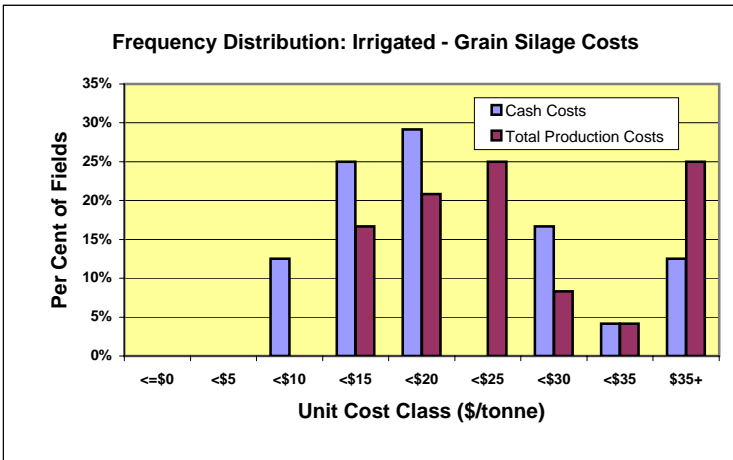
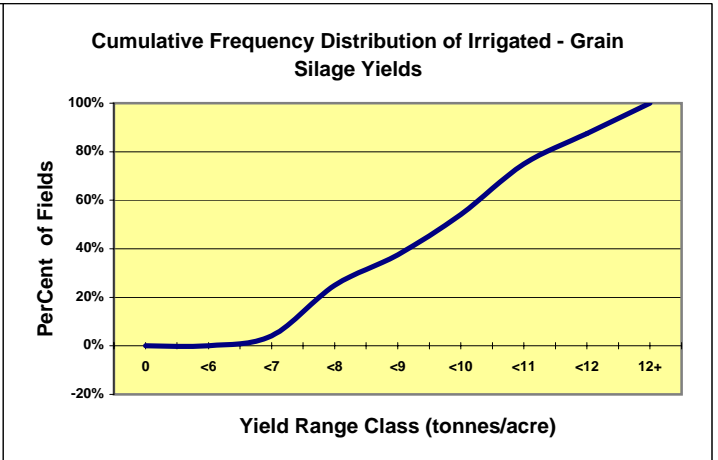
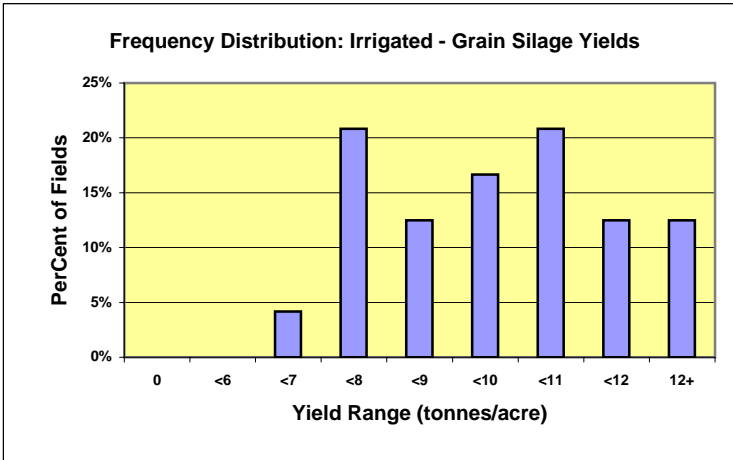


# Irrigated - Alfalfa Hay: 2004



# Irrigated - Grain Silage: 2004

AgriProfit\$





**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