



Eastern Idaho:

Soft White Winter Wheat

Paul E. Patterson and Juliet M. Marshall

Background and Assumptions

The University of Idaho's costs and returns estimates are based on economic costs, not accounting costs. All resources are valued at a market rate or "opportunity cost". Input prices are based on the data collected annually by the University of Idaho from agricultural supply companies. The selling price for the commodity is typically an historical average, not a current year's price. The cost estimate shown here is typical for growing soft white winter wheat under irrigation in eastern Idaho. Production practices are based on data from farmers, crop consultants, and extension personnel in eastern Idaho. These aren't University of Idaho recommendations. The practices most closely represent those in Bingham, Bonneville, Jefferson, Madison, and Power counties. Although production practices may be similar for individual farms, each farm has a unique set of resources with different levels of productivity, different production problems, and therefore different costs. Farm size, crop rotation, age and type of equipment, and the quality and intensity of management are all crucial factors that influence production costs.

The Model Farm

The model farm for this costs and returns estimate is a 2,400-acre irrigated farm with 1,600 acres in grain and 800 acres in potatoes. The typical crop rotation is one year of potatoes followed by two years of grain. Corn or an oil seed crop may substitute for grain, and alfalfa hay may be grown in longer rotations.

The farm uses a center pivot irrigation system and surface water delivered to the farm from an irrigation district. The irrigation district charges a flat fee per acre for water. Irrigation power use is based only on pressurization (no lift). Power costs per acre-inch of water applied are calculated using 2015 Idaho Power Schedule 24 Agricultural Irrigation Service rates. Power cost per acre-inch for water pumped from different depths and for different irrigation systems is found in the annual Crop Input Cost Summary

<http://www.uidaho.edu/cals/idaho-agbiz/crop-enterprise-budgets>

Production Practices

After harvest of the preceding grain crop and removal of the straw, the ground is disked. The ground is roller harrowed and planted in September in a single-pass

operation. Wheat is harvested by the farm operator in August and hauled to a grain elevator and sold. Storage costs are not included. Harvest cost in grain budgets published prior to 2013 was based on a custom rate.

Fertilizer is applied in a split fall-spring application. Part of the fertilizer is custom applied before planting, while the majority is spring applied by a custom applicator. A 3-way herbicide mix is ground applied post emergence to control wild oats and broadleaf weeds. While it may be needed in some years, no foliar fungicide is included for control of stripe rust or other foliar diseases. While an insecticide may also be needed, none are included because treatment is infrequent and unpredictable. Soft white winter wheat receives 16 inches of water during the summer growing season; 5 inches in May, 6 inches in June, and 5 inches in July. Three inches of water that were applied the previous fall are also credited to wheat crop for a total of 19 inches.

Machinery

Equipment used to produce irrigated winter wheat is shown in Tables 4 and 5. Table 4 lists the equipment and their hourly operating and ownership costs, while Table 5 lists the equipment and their annual ownership costs. Machinery ownership cost (capital recovery) is based on 75% of the replacement cost of a new piece of equipment, except for trucks. Truck prices are for a used vehicle with a new bed. Capital recovery combines depreciation and interest into a single value. To keep machinery prices current between years in which a comprehensive survey is conducted, machinery prices are adjusted using USDA's Farm Machinery Prices Paid Index. Equipment prices are collected approximately every five years.

The University of Idaho uses the budget generator program *Budget Planner* from the University of California-Davis to produce the various tables shown in this publication. Machinery operating and ownership costs are calculated based on engineering equations in this program. Machinery operating costs include fuel, lubricants and repairs.

Labor and Management

The cost of labor used in this study includes a base wage, plus a percentage to account for various payroll taxes (FICA, SUTA &

FUTA), and workman's compensation, as well as benefits such as paid vacation/personal leave days, health insurance and bonuses. Labor is classified by the type of work performed. Labor classifications, labor rates and payroll overhead are shown below.

Labor Values

Labor Class	Base Rate	Payroll Overhead	Effective Rate
General Farm Labor	\$9.25	15%	\$10.65
Truck Drivers	\$12.50	15%	\$14.40
Equipment Operators	\$14.80	25%	\$18.50
Irrigation Labor			
Set Move: HL & WL	\$10.10	30%	\$13.15
Continuous Move: CP & L	\$14.80	25%	\$18.50

Set Move includes: handlines and wheelines

Continuous Move includes: center pivots and linear move

Payroll overhead for set move systems includes housing

Based on the speed, width and overall field efficiency, *Budget Planner* calculates equipment operator labor hours for all field operations except those performed on a custom basis. Custom operations are listed separately. General farm labor accounts for extra field labor used during planting or harvest. A management fee based on approximately 5% of the total production costs is included. Prior to 2013, the basis of the 5% charge was expected revenue.

Capital, Land and Overhead Costs

Interest on operating capital is charged from the time an input is applied until harvest and is calculated at a nominal rate of 5.75 percent. Interest on intermediate term capital, primarily equipment, is calculated using a nominal rate of 5.5 percent. A general overhead charge, calculated at approximately 2.5 percent of operating expenses, is included to cover unallocated whole-farm costs such as office expenses, legal and accounting fees, cell phones, internet service and utilities. Irrigation power is not included as part of general farm utilities.

Land rent is based on a one-year cash lease for grain and covers the ownership costs (depreciation, interest, and insurance) of the irrigation system. Because the charge for water, irrigation system repairs and irrigation power costs are listed separately, the land rent may appear low because the land owner in many circumstances pays some or even all these expenses.

Budget Format

In addition to the Background and Assumption pages, this publication has six tables presenting a variety of cost and returns information.

Table 1 shows both expected revenue, based on a specified yield and price, and expenses. Expenses are broken into two main

categories: operating and ownership. Operating expenses are those that typically vary with the level of production and involve inputs that are used in a single production cycle. Ownership expenses include a systematic cost recovery over the useful life for inputs used in the production process that have a useful life of more than one year. Machinery and land fall into this category. Operating inputs are organized by category. In addition to the cost per unit and cost per acre for each input, a total cost is given for each category. Table 1 also gives a total of all operating, ownership and total costs per acre, as well as these same categories on a yield basis (per bushel, cwt, ton, etc.).

Table 2 has most of the same cost information presented in Table 1 but the data is organized by operation for both pre-harvest and harvest costs. Operations can define a single activity, such as seed hauling, or multiple activities as in the case of tillage. The quantity of labor is shown for each operation. The cash costs per acre for labor, machinery costs, materials and custom are also specified. Cash overhead expenses are listed separately as are the non-cash overhead.

Table 3 is a monthly cash flow of expenses based on when the operation occurs and when inputs are applied. Field operations are classified as pre-harvest, harvest and post-harvest.

Table 4 lists the equipment used to produce this crop and the costs per hour to operate this equipment. Total annual hours of use for the current crop and for all crops on the farm is also shown.

Table 5 lists the purchase price and salvage value of equipment used to produce this crop, as well annual capital recovery and cash overhead expenses.

Table 6 provides a ranging analysis, sometime referred to as a sensitivity analysis. Table 6 shows how the costs and returns per acre will vary as the yield and/or price ranges above and below the base values from Table 1.

Authors

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Disclaimer

The practices and chemicals specified in the publication are not recommendations. Always read and follow the directions printed on the pesticide label. Due to constantly changing pesticide laws and labels, some pesticides may have been cancelled or had certain uses prohibited. The use of trade names for various products simplifies presentation of this material and should not be considered an endorsement, nor is any criticism implied of similar products not mentioned.

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TABLE 1. COSTS AND RETURNS PER ACRE TO PRODUCE SOFT WHITE WINTER WHEAT

	Quantity/ Acre	Unit	Price or Cost/Unit	Value or Cost/Acre	Your Cost
GROSS RETURNS					
SOFT WHITE WHEAT	125.00	bu	5.85	731.25	
TOTAL GROSS RETURNS	125.00	bu		731.25	
OPERATING COSTS					
Seed:				22.00	
Wheat Seed: SWW	100.00	lb	0.22	22.00	
Fertilizer:				113.40	
Dry Nitrogen - Pre-plant	150.00	lb	0.55	82.50	
Dry P2O5	50.00	lb	0.53	26.50	
K2O	10.00	lb	0.44	4.40	
Pesticides/Chemicals:				24.48	
Axial XL	16.40	fl oz	1.09	17.88	
Bronate Advanced	1.20	pint	5.50	6.60	
Custom:				37.00	
Custom Fertilize: 0 - 400 lbs	2.00	acre	7.25	14.50	
Custom Haul: wheat	125.00	bu	0.18	22.50	
Irrigation:				61.79	
Irrigation Power - Center Pivot	19.00	ac-in	1.90	36.10	
Irrigation Water Assessment - AI	1.00	acre	16.00	16.00	
Irrigation Repairs - CP	19.00	ac-in	0.51	9.69	
Other:				19.50	
Crop Insurance	1.00	acre	19.50	19.50	
Labor				46.78	
Equipment Operator Labor	1.61	hrs	18.50	29.73	
General Farm Labor	0.28	hrs	10.65	2.99	
Irrigation Labor - CP	0.76	hrs	18.50	14.06	
Machinery				32.41	
Fuel-Gas	2.88	gal	2.50	7.20	
Fuel-Diesel	4.42	gal	2.35	10.40	
Fuel-Road Diesel	0.16	gal	2.85	0.45	
Lube				2.71	
Machinery Repair				11.66	
Interest on Operating Capital @ 5.75%				11.06	
TOTAL OPERATING COSTS/ACRE				368.41	
TOTAL OPERATING COSTS/BU				2.95	
NET RETURNS ABOVE OPERATING COSTS				362.84	

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TABLE 1. CONTINUED

	Quantity/ Acre	Unit	Price or Cost/Unit	Value or Cost/Acre	Your Cost
CASH OVERHEAD COSTS					
General Overhead				10.00	
Land Rent				220.00	
Management Fee				34.00	
Property Taxes				0.00	
Property Insurance				1.23	
Investment Repairs				0.00	
TOTAL CASH OVERHEAD COSTS/ACRE				265.23	
TOTAL CASH OVERHEAD COSTS/BU				2.12	
TOTAL CASH COSTS/ACRE				633.64	
TOTAL CASH COSTS/BU				5.07	
NET RETURNS ABOVE CASH COSTS				97.61	
NON-CASH OVERHEAD COSTS (Capital Recovery)					
Equipment				46.04	
TOTAL NON-CASH OVERHEAD COSTS/ACRE				46.04	
TOTAL NON-CASH OVERHEAD COSTS/BU				0.37	
TOTAL COST/ACRE				679.68	
TOTAL COST/BU				5.44	
NET RETURNS ABOVE TOTAL COST				51.32	

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TABLE 2. COSTS PER ACRE TO PRODUCE SOFT WHITE WINTER WHEAT

Operation	Operation	Cash and Labor Costs per Acre					Total Cost	Your Cost
	Time (Hrs/A)	Labor Cost	Fuel	Lube &Repairs	Material Cost	Custom/ Rent		
Preharvest:								
Tillage	0.09	3.09	2.81	1.50	0.00	0.00	7.40	
Irrigation	0.00	14.06	0.00	0.00	36.10	0.00	50.16	
Apply Fertilizer	0.00	0.00	0.00	0.00	47.40	7.25	54.65	
Seed Hauling	0.03	0.74	0.09	0.16	0.00	0.00	0.99	
Roller Harrow & Plant	0.11	3.82	2.79	4.39	22.00	0.00	32.99	
Crop Insurance	0.00	0.00	0.00	0.00	19.50	0.00	19.50	
Irrigation Water Assessment	0.00	0.00	0.00	0.00	16.00	0.00	16.00	
Irrigation System Repairs	0.00	0.00	0.00	0.00	9.69	0.00	9.69	
Applying Fertilizer	0.00	0.00	0.00	0.00	66.00	7.25	73.25	
Applying Pesticides	0.04	1.27	0.74	0.41	24.48	0.00	26.89	
General Pickup Use	0.86	19.15	7.18	2.83	0.00	0.00	29.16	
Fuel Truck Use	0.03	0.56	0.18	0.08	0.00	0.00	0.82	
Service Truck Use	0.03	0.56	0.18	0.07	0.00	0.00	0.80	
4-Wheeler Use	0.03	0.56	0.02	0.01	0.00	0.00	0.58	
TOTAL PREHARVEST COSTS	1.20	43.79	13.98	9.45	241.17	14.50	322.88	
Harvest:								
Harvest	0.13	2.99	3.48	4.83	0.00	0.00	11.31	
Crop Hauling	0.00	0.00	0.00	0.00	0.00	22.50	22.50	
TOTAL HARVEST COSTS	0.13	2.99	3.48	4.83	0.00	22.50	33.81	
Interest on Operating Capital at 5.75%							11.06	
TOTAL OPERATING COSTS/ACRE	1.34	46.78	17.47	14.28	241.17	37.00	367.75	

	Operation	Cash and Labor Costs per Acre						
Operation	Time (Hrs/A)	Labor Cost	Fuel	Lube &Repairs	Material Cost	Custom/ Rent	Total Cost	Your Cost
CASH OVERHEAD:								
General Overhead							10.00	
Land Rent							220.00	
Management Fee							34.00	
Property Taxes							0.00	
Property Insurance							1.23	
Investment Repairs							0.00	
TOTAL CASH OVERHEAD COSTS/ACRE							265.23	
TOTAL CASH COSTS/ACRE							632.98	
NON-CASH OVERHEAD:		Per Producing Acre		Annual Cost Capital Recovery				
Equipment		418.44		46.04			46.04	
TOTAL NON-CASH OVERHEAD COSTS		418.44		46.04			46.04	
TOTAL COSTS/ACRE							679.02	

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TABLE 3. MONTHLY COSTS PER ACRE TO PRODUCE SOFT WHITE WINTER WHEAT

	SEP 14	OCT 14	NOV 14	DEC 14	JAN 15	FEB 15	MAR 15	APR 15	MAY 15	JUN 15	JUL 15	AUG 15	Total
Preharvest:													
Tillage	7.40												7.40
Irrigation	5.28	2.64							13.20	15.84	13.20		50.16
Apply Fertilizer	54.65												54.65
Seed Hauling	0.99												0.99
Roller Harrow & Plant	32.99												32.99
Crop Insurance								19.50					19.50
Irrigation Water Assessment								16.00					16.00
Irrigation System Repairs								9.69					9.69
Applying Fertilizer								73.25					73.25
Applying Pesticides									26.89				26.89
General Pickup Use	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	29.16
Fuel Truck Use	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.82
Service Truck Use	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.80
4-Wheeler Use	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.58
TOTAL PREHARVEST COSTS	103.92	5.25	2.61	2.61	2.61	2.61	2.61	121.05	42.71	18.45	15.81	2.61	322.88
Harvest:													
Harvest												11.31	11.31
Crop Hauling												22.50	22.50
TOTAL HARVEST COSTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.81	33.81
Interest on Operating Capital @5.75%	0.50	0.52	0.54	0.55	0.56	0.57	0.59	1.17	1.37	1.46	1.53	1.71	11.06
TOTAL OPERATING COSTS/ACRE	104.42	5.78	3.15	3.16	3.17	3.19	3.20	122.22	44.08	19.91	17.35	38.13	367.75
CASH OVERHEAD													
General Overhead	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	10.00
Land Rent							220.00						220.00
Management Fee	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	34.00
Property Taxes													0.00
Property Insurance								1.23					1.23
Investment Repairs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL CASH OVERHEAD COSTS	3.67	3.67	3.67	3.67	3.67	3.67	223.67	4.89	3.67	3.67	3.67	3.67	265.23
TOTAL CASH COSTS/ACRE	108.09	9.44	6.82	6.83	6.84	6.85	226.87	127.11	47.74	23.58	21.01	41.80	632.98

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TABLE 4. HOURLY EQUIPMENT COSTS

SOFT WHITE WINTER WHEAT		Total	Cash Overhead			Operating			Total	Total
Yr	Description	Hours Used	Hours Used	Capital Recovery	Insur- ance	Taxes	Lube& Repairs	Fuel	Oper.	Costs/Hr.
15	4-wheeler	40	90	6.80	0.19	0.00	0.57	0.63	1.19	8.18
15	Grain Drill - 24'	175	175	24.93	0.57	0.00	13.89	0.00	13.89	39.39
15	Pickup 1 - 3/4 ton	400	800	8.03	0.15	0.00	3.28	8.32	11.60	19.79
15	Pickup 2 - 3/4 ton	400	800	8.03	0.15	0.00	3.28	8.32	11.60	19.79
15	Roller-harrow -24'	175	175	29.88	0.79	0.00	13.49	0.00	13.49	44.15
15	Tractor - 160hp	64	350	24.56	0.91	0.00	8.44	18.57	27.01	52.48
15	Truck 1P 10-Wheeler	53	345	20.44	0.65	0.00	4.69	2.76	7.45	28.54
15	Sprayer - 50' 200 gal.	58	100	4.29	0.12	0.00	1.97	0.00	1.97	6.39
15	Tractor 2 - 200hp	192	500	22.61	0.80	0.00	11.64	23.19	34.84	58.24
15	Tractor - 250hp	155	500	30.96	1.09	0.00	9.14	28.98	38.11	70.16
15	Combine 25' Grain	237	250	138.08	3.48	0.00	32.59	23.50	56.09	197.65
15	Pickup 3 - 3/4ton	193	375	11.38	0.30	0.00	3.28	8.32	11.60	23.28
15	Pickup 4 - 3/4ton	193	375	11.38	0.30	0.00	3.28	8.32	11.60	23.28
15	Pickup 5 - 3/4ton	193	375	11.38	0.30	0.00	3.28	8.32	11.60	23.28
15	Offset Disk - 20'	141	175	18.96	0.47	0.00	6.92	0.00	6.92	26.35
15	Fuel Truck	40	80	46.10	1.49	0.00	3.32	7.13	10.44	58.04
15	Service Truck	40	80	36.69	1.21	0.00	2.87	7.13	9.99	47.89

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TABLE 5. WHOLE FARM ANNUAL EQUIPMENT, INVESTMENT, AND BUSINESS OVERHEAD COSTS

ANNUAL EQUIPMENT COSTS

Yr	Description	Price	Yrs Life	Salvage Value	Capital Recovery	Cash Overhead		Total
						Insur- ance	Taxes	
15	4-wheeler	6,000.00	10	1,500.00	679.50	18.75	0.00	698.25
15	Grain Drill - 24'	36,000.00	8	8,128.30	4,846.99	110.32	0.00	4,957.32
15	Pickup 1 - 3/4 ton	41,000.00	5	13,750.00	7,137.56	136.88	0.00	7,274.43
15	Pickup 2 - 3/4 ton	41,000.00	5	13,750.00	7,137.56	136.88	0.00	7,274.43
15	Roller-harrow -24'	54,000.00	12	7,479.36	5,809.12	153.70	0.00	5,962.82
15	Tractor - 160hp	131,000.00	25	11,078.38	9,549.39	355.20	0.00	9,904.59
15	Truck 1P 10-Wheeler	95,000.00	20	4,000.00	7,834.82	247.50	0.00	8,082.32
15	Sprayer - 50' 200 gal.	5,000.00	15	480.03	476.71	13.70	0.00	490.41
15	Tractor 2 - 200hp	157,000.00	20	20,144.91	12,559.91	442.86	0.00	13,002.77
15	Tractor - 250hp	215,000.00	20	27,586.97	17,199.88	606.47	0.00	17,806.35
15	Combine 25' Grain	325,000.00	10	61,305.01	38,355.60	965.76	0.00	39,321.36
15	Pickup 3 - 3/4ton	41,000.00	10	9,000.00	4,740.37	125.00	0.00	4,865.37
15	Pickup 4 - 3/4ton	41,000.00	10	9,000.00	4,740.37	125.00	0.00	4,865.37
15	Pickup 5 - 3/4ton	41,000.00	10	9,000.00	4,740.37	125.00	0.00	4,865.37
15	Offset Disk - 20'	31,000.00	10	5,482.08	3,686.92	91.21	0.00	3,778.12
15	Fuel Truck	50,000.00	20	3,000.00	4,097.93	132.50	0.00	4,230.43
15	Service Truck	40,000.00	20	3,000.00	3,261.14	107.50	0.00	3,368.64
TOTAL		1,350,000.00	-	207,685.05	136,854.13	3,894.21	0.00	140,748.35
90% of New Cost*		1,215,000.00	-	186,916.54	123,168.72	3,504.79	0.00	126,673.51

*Used to reflect a mix of new and used equipment

ANNUAL INVESTMENT COSTS

Description	Price	Yrs Life	Salvage Value	Capital Recovery	Cash Overhead			Total
					Insur- ance	Taxes	Repairs	
INVESTMENT								

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TABLE 6. RANGING ANALYSIS - SOFT WHITE WINTER WHEAT

COSTS PER ACRE AND PER BU AT VARYING YIELDS TO PRODUCE SOFT WHITE WINTER WHEAT

	YIELD(BU)						
	110.00	115.00	120.00	125.00	130.00	135.00	140.00
OPERATING COSTS/ACRE:							
Preharvest	322.88	322.88	322.88	322.88	322.88	322.88	322.88
Harvest	33.81	33.81	33.81	33.81	33.81	33.81	33.81
Interest on Operating Capital @ 5.75%	11.06	11.06	11.06	11.06	11.06	11.06	11.06
TOTAL OPERATING COSTS/ACRE	367.75	367.75	367.75	367.75	367.75	367.75	367.75
TOTAL OPERATING COSTS/BU	3.34	3.20	3.06	2.94	2.83	2.72	2.63
CASH OVERHEAD COSTS/ACRE	265.23	265.23	265.23	265.23	265.23	265.23	265.23
TOTAL CASH COSTS/ACRE	632.98	632.98	632.98	632.98	632.98	632.98	632.98
TOTAL CASH COSTS/BU	5.75	5.50	5.27	5.06	4.87	4.69	4.52
NON-CASH OVERHEAD COSTS/ACRE	46.04	46.04	46.04	46.04	46.04	46.04	46.04
TOTAL COSTS/ACRE	679.02	679.02	679.02	679.02	679.02	679.02	679.02
TOTAL COSTS/BU	6.17	5.90	5.66	5.43	5.22	5.03	4.85

Net Return Per Acre Above Operating Costs For Soft White Winter Wheat

PRICE (\$/bu)	YIELD (bu/acre)						
Soft White Wheat	110.00	115.00	120.00	125.00	130.00	135.00	140.00
5.10	193.25	218.75	244.25	269.75	295.25	320.75	346.25
5.35	220.75	247.50	274.25	301.00	327.75	354.50	381.25
5.60	248.25	276.25	304.25	332.25	360.25	388.25	416.25
5.85	275.75	305.00	334.25	363.50	392.75	422.00	451.25
6.10	303.25	333.75	364.25	394.75	425.25	455.75	486.25
6.35	330.75	362.50	394.25	426.00	457.75	489.50	521.25
6.60	358.25	391.25	424.25	457.25	490.25	523.25	556.25

Net Return Per Acre Above Cash Costs For Soft White Winter Wheat

PRICE (\$/bu)	YIELD (bu/acre)						
Soft White Wheat	110.00	115.00	120.00	125.00	130.00	135.00	140.00
5.10	-71.98	-46.48	-20.98	4.52	30.02	55.52	81.02
5.35	-44.48	-17.73	9.02	35.77	62.52	89.27	116.02
5.60	-16.98	11.02	39.02	67.02	95.02	123.02	151.02
5.85	10.52	39.77	69.02	98.27	127.52	156.77	186.02
6.10	38.02	68.52	99.02	129.52	160.02	190.52	221.02
6.35	65.52	97.27	129.02	160.77	192.52	224.27	256.02
6.60	93.02	126.02	159.02	192.02	225.02	258.02	291.02

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TABLE 6. RANGING ANALYSIS CONTINUED

Net Return Per Acre Above Total Costs For Soft White Winter Wheat

PRICE (\$/bu)	YIELD (bu/acre)						
Soft White Wheat	110.00	115.00	120.00	125.00	130.00	135.00	140.00
5.10	-118.02	-92.52	-67.02	-41.52	-16.02	9.48	34.98
5.35	-90.52	-63.77	-37.02	-10.27	16.48	43.23	69.98
5.60	-63.02	-35.02	-7.02	20.98	48.98	76.98	104.98
5.85	-35.52	-6.27	22.98	52.23	81.48	110.73	139.98
6.10	-8.02	22.48	52.98	83.48	113.98	144.48	174.98
6.35	19.48	51.23	82.98	114.73	146.48	178.23	209.98
6.60	46.98	79.98	112.98	145.98	178.98	211.98	244.98