

**THE VALUE OF THE SEED WHEAT INDUSTRY
IN IDAHO'S ECONOMY**

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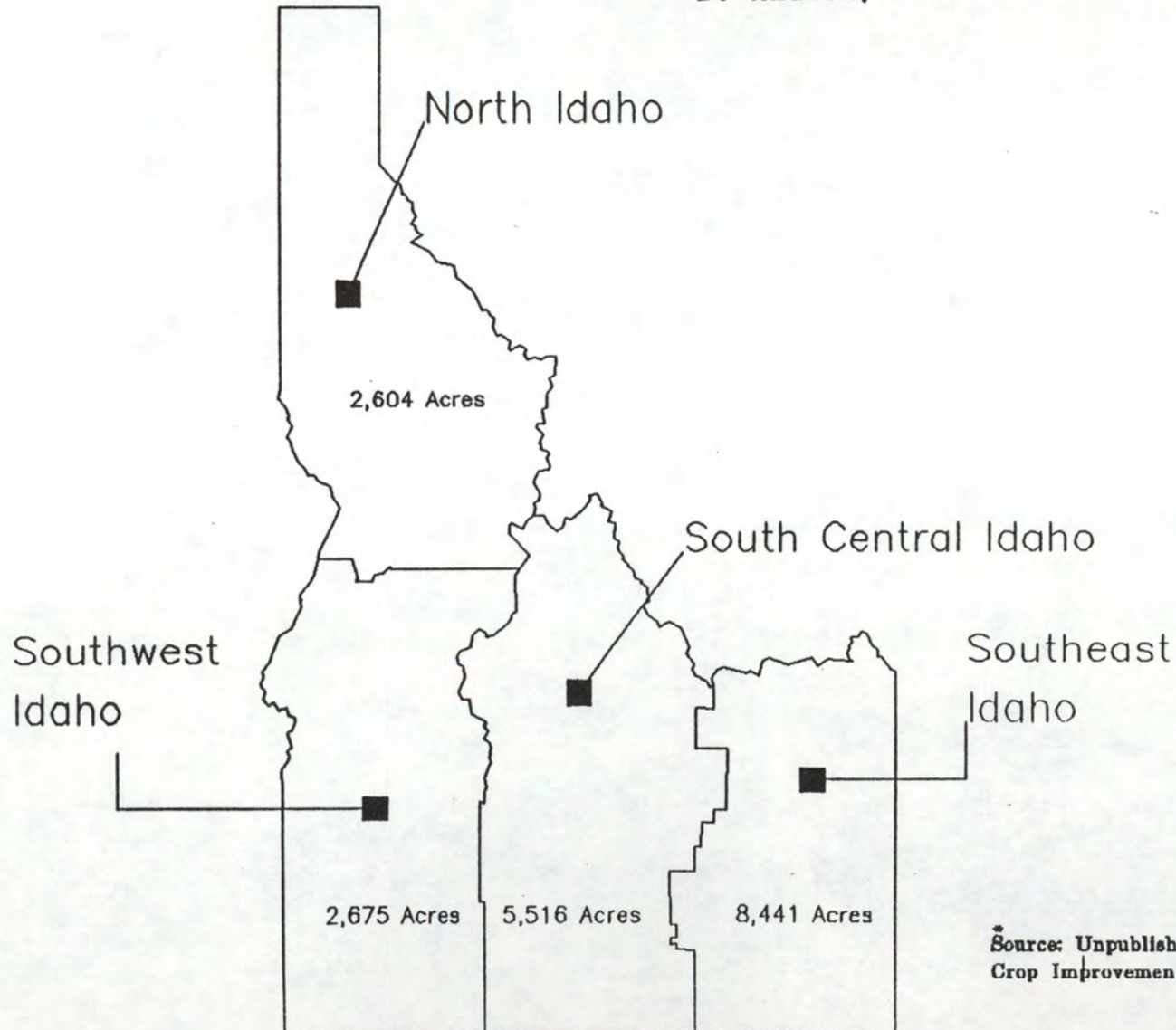
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Seed wheat is a significant crop in Idaho. It is grown in all areas of the state (Figure 1). Seed wheat is a desirable alternative for many Idaho wheat producers because it yields consistently higher net returns than wheat for grain. The production of seed wheat involves a similar mix of inputs as wheat for grain with some minor differences. Seed wheat producers pay much higher costs for foundation seed than grain producers pay for regular seed. Also, seed wheat producers must bear the costs of extra field inspection and special cleaning of harvest equipment. North Idaho (non-irrigated) seed wheat producers often plow isolation strips around their fields, so they lose some production. Seed wheat is cleaned more thoroughly than is wheat for grain. In Northern Idaho only about 85 percent of the seed wheat crop meets certified seed standards. The remainder is generally sold as feed wheat. South Idaho (irrigated) seed wheat producers can usually find sufficiently isolated fields so that isolation strips may not be needed. In general, South Idaho seed wheat producers can sell about 90 percent of their crop as certified seed wheat. The remainder of the crop is generally sold as feed wheat. Typically, the amount of seed meeting certified seed grade is highly correlated with the producer's management skills.

The information specified above is based on comments made to the authors by seed wheat growers and persons affiliated with Idaho Crop Improvement Association, Inc. This information is reflected in the seed wheat and the wheat for grain budgets presented in the appendix of this paper, and in the information shown in Table 1.

Figure 1

IDAHO SEED WHEAT ACREAGE APPLIED FOR CERTIFICATION*
BY REGION, 1990



*Source: Unpublished data compiled by the Idaho
Crop Improvement Association, Inc.

TABLE 1

ESTIMATED 1991 DIFFERENCES IN NET RETURNS TO IDAHO FARMERS
FOR SEED WHEAT VS. WHEAT FOR GRAIN *

	North Idaho	Southwest Idaho	S. Central Idaho	Southeast Idaho	Idaho Total
Per acre of seed wheat	\$22.95	\$53.50	\$85.40	\$52.99	--
Total seed wheat acreage	\$59,762	\$143,113	\$471,066	\$477,289	\$1,121,230

* Based on information from budgets developed in the Department of Agricultural Economics and Rural Sociology at the University of Idaho (see Appendix). Differences shown are in income above variable costs. These would change slightly if returns to fixed costs were considered.

The value of seed wheat to Idaho wheat farmers (as a higher returns alternative to wheat for grain) is estimated by the information on differences in net returns for seed wheat versus wheat for grain, shown in Table 1. The value of a particular enterprise to the economy of an area, however, is more than just the value of the enterprise to the entrepreneurs. As direct income is generated for an entrepreneur, other direct income is generated for workers (wages), land owners (rents), lenders (interest), and others. Such total direct income from an enterprise is called value-added. Estimates of direct value-added for Idaho seed wheat versus wheat for grain are presented in Table 2.

TABLE 2

ESTIMATED 1991 DIFFERENCES IN DIRECT VALUE ADDED FOR
IDAHO SEED WHEAT VS. WHEAT FOR GRAIN*

	North Idaho	Southwest Idaho	S. Central Idaho	Southeast Idaho	Idaho Total
Per acre of seed wheat	\$25.36	\$55.16	\$86.33	\$54.50	---
Total seed wheat acreage	\$66,037	\$147,553	\$476,196	\$460,035	\$1,149,821

* Includes labor and interest costs and income above variable costs, based on information from budgets developed in the Department of Agricultural Economics and Rural Sociology at the University of Idaho (see Appendix).

In the economy of an area, economic activity generates additional economic activity. Farmers purchase inputs from implement and chemical dealers. Implement and chemical dealers generate income for themselves from the purchases that farmers make, and they generate income for workers, real estate owners, lenders, and others. Also, farm families use some of their incomes to purchase consumer goods (groceries, clothing, automobiles, etc.). Similarly, the families of agribusiness persons with which farmers do business (implement and chemical dealers) spend some of their incomes for consumer goods. So the value-added that farmers generate in an economy by producing higher returning rather than lower returning enterprises, is multiplied within such economies. Preliminary results of ongoing research in the Department of Agricultural Economics and Rural Sociology at the University of Idaho indicate that a value-added multiplier of about 3.127 may be appropriate for Idaho agriculture.

Estimates of differences in values-added related to Idaho agriculture for seed wheat vs. wheat for grain are shown in Table 3. In some areas, these values-added may be almost entirely kept within the state of Idaho. In other areas, where many people trade across state boundaries (North Idaho and Southeast Idaho), much of this value-added may be drawn out of state. In any case, regional value-added related to agriculture measures the economic impacts of agriculture on the economy of an area.

TABLE 3
ESTIMATED 1991 DIFFERENCES IN REGIONAL VALUE-ADDED
RELATED TO AGRICULTURE FOR IDAHO
SEED WHEAT VS WHEAT FOR GRAIN*

	North Idaho	Southwest Idaho	S. Central Idaho	Southeast Idaho	Idaho Total
Per acre of seed wheat	\$79.30	\$172.49	\$269.95	\$170.42	—
Total seed wheat acreage	\$206,498	\$461,398	\$1,489,065	\$1,438,529	\$3,595,490

* Based on information from Table 2 and an agricultural value added multiplier for Idaho of 3.127. The multiplier estimate is a preliminary result of ongoing research in the Department of Agricultural Economics & Rural Sociology at the University of Idaho.

It can be seen from information presented in Table 3 that the seed wheat industry generates about \$3.6 million in Idaho's economy that would not be generated if the same land was used for wheat for grain. Clearly, the seed wheat industry is of significant economic importance to Idaho. Consequently, it is worthwhile to invest to minimize threats, such as jointed goatgrass, to the state's seed wheat industry.

APPENDIX

IDAHO FARM ENTERPRISE BUDGETS

Wheat For Grain

and

Wheat For Seed

WINTER WHEAT
NORTHERN IDAHO

	Unit	Price Or Cost/Unit	Quantity Per Acre	Value Or Cost/Acre	Your Value
1. Gross Receipts From Production					
Winter Wheat	Bu.	3.00	65.00	\$ 195.00	_____
Total				\$ 195.00	_____
2. Variable Costs					
Preharvest					
Anhydrous Ammon.	Lb.	0.17	80.00	\$ 13.60	_____
16-20-0	Lb.	0.13	200.00	26.00	_____
Fert. Spreader	Acre	1.25	1.00	1.25	_____
Wheat Seed	Lb.	0.14	75.00	10.50	_____
Direx 4Lb Ai	Qt.	6.78	0.60	4.07	_____
2-4-D Amine	Qt.	2.99	1.00	2.99	_____
Air Spray	Acre	5.00	1.00	5.00	_____
Sprayer	Acre	1.25	1.00	1.25	_____
Crop Insurance	Acre	5.00	1.00	5.00	_____
Machinery	Acre	11.39	1.00	11.39	_____
Tractors	Acre	5.00	1.00	5.00	_____
Labor(Tractor & Machinery)	Hour	6.00	1.04	6.23	_____
Interest On Op. Cap.	Dol.	0.11	68.02	7.48	_____
Subtotal, Pre-Harvest				\$ 99.75	_____
Harvest Costs					
Machinery	Acre	14.64	1.00	14.64	_____
Labor(Tractor & Machinery)	Hour	6.00	0.96	5.77	_____
Subtotal, Harvest				\$ 20.41	_____
Total Variable Cost				\$ 120.17	_____
3. Income Above Variable Costs					
				\$ 74.83	_____
4. Fixed Costs					
Machinery	Acre	48.98	1.00	48.98	_____
Tractors	Acre	12.10	1.00	12.10	_____
Land (Net Rent)	Acre	47.82	1.00	47.82	_____
Total Fixed Costs				\$ 108.90	_____
5. Total Costs					
				\$ 229.07	_____
6. Returns To Risk And Management					
				\$ -34.07	_____

Land Charge-1/3 Cost Share
Government Program Payments Should Be Considered When
Determining Crop Income.

Breakeven Prices		
If	Bu. Winter Wheat	Are Produced:
		To Cover Preharvest Variable Inputs 1.535
		To Cover Harvest Variable Inputs 0.314
		To Cover Fixed Inputs 1.675
		To Cover All Costs Except Risk 3.524

WINTER WHEAT SEED
NORTHERN IDAHO

	Unit	Price Or Cost/Unit	Quantity Per Acre	Value Or Cost/Acre	Your Value
1. Gross Receipts From Production					
Certified Wheat	Bu.	4.00	55.00	\$ 220.00	_____
Feed Wheat	Bu.	2.00	10.00	20.00	_____
Total				\$ 240.00	_____
2. Variable Costs					
Preharvest					
Anhydrous Ammon.	Lb.	0.17	80.00	13.60	_____
16-20-0	Lb.	0.13	200.00	26.00	_____
Fert. Spreader	Acre	1.25	1.00	1.25	_____
Foundation Seed	Lb.	0.35	80.00	28.00	_____
Direx 4Lb Ai	Qt.	6.78	0.60	4.07	_____
2-4-D Amine	Qt.	2.99	1.00	2.99	_____
Air Spray	Acre	5.00	1.00	5.00	_____
Sprayer	Acre	1.25	1.00	1.25	_____
Crop Insurance	Acre	5.00	1.00	5.00	_____
Field Inspection	Acre	2.10	1.00	2.10	_____
Machinery	Acre	11.40	1.00	11.40	_____
Tractors	Acre	5.03	1.00	5.03	_____
Labor(Tractor & Machinery)	Hour	6.00	1.04	6.24	_____
Other Labor	Hour	6.00	0.10	0.60	_____
Interest On Op. Cap.	Dol.	0.11	84.34	9.28	_____
Subtotal, Pre-Harvest				\$ 121.81	_____
Harvest Costs					
Machinery	Acre	14.64	1.00	14.64	_____
Labor(Tractor & Machinery)	Hour	6.00	0.96	5.77	_____
Subtotal, Harvest				\$ 20.41	_____
Total Variable Cost				\$ 142.22	_____
3. Income Above Variable Costs				\$ 97.78	_____
4. Fixed Costs					
Machinery	Acre	49.01	1.00	49.01	_____
Tractors	Acre	12.17	1.00	12.17	_____
Land (Net Rent)	Acre	50.29	1.00	50.29	_____
Total Fixed Costs				\$ 111.47	_____
5. Total Costs				\$ 253.70	_____
6. Net Returns To Risk				\$ -13.70	_____

Land Charge-1/3 Cost Share
Approximately 1% Of Field Plowed For Isolation Strips.
Eighty Five Percent Of Crop Meets Certified Seed Grade.
The Remainder Of The Crop Is Sold As Feed Wheat.

Breakeven Prices
If 55.00 Bu. Certified Wheat Are Produced:

To Cover Preharvest Variable Inputs	1.851
To Cover Harvest Variable Inputs	0.008
To Cover Fixed Inputs	1.663
To Cover All Costs Except Risk	4.249

SPRING WHEAT
SOUTHWESTERN IDAHO

	Unit	Price Or Cost/Unit	Quantity Per Acre	Value Or Cost/Acre	Your Value
1. Gross Receipts From Production					
Spring Wheat	Bu.	2.75	95.00	\$ 261.25	_____
Total				\$ 261.25	_____
2. Variable Costs					
Preharvest					
Wheat Seed Lb. 0.13 100.00 13.00 _____					
Nitrogen Lb. 0.26 135.00 35.10 _____					
Phosphate Lb. 0.21 50.00 10.50 _____					
Custom Fertilize Acre 6.00 1.00 6.00 _____					
2-4-D Amine Qt. 1.15 2.00 2.30 _____					
Water Assessment Acre 20.00 1.00 20.00 _____					
Crop Insurance Acre 6.08 1.00 6.08 _____					
Machinery Acre 13.24 1.00 13.24 _____					
Tractors Acre 5.06 1.00 5.06 _____					
Irrigation Supplies Acre 3.75 1.00 3.75 _____					
Labor(Tractor & Machinery) Hour 6.00 1.81 10.84 _____					
Labor(Irrigation) Hour 4.00 4.00 16.00 _____					
Interest On Op. Cap. Dol. 0.11 48.86 5.37 _____					
Subtotal, Pre-Harvest \$ 147.25 _____					
Harvest Costs					
Custom Combine Acre 27.00 1.00 27.00 _____					
Machinery Acre 9.49 1.00 9.49 _____					
Labor(Tractor & Machinery) Hour 6.00 0.70 4.18 _____					
Subtotal, Harvest \$ 40.67 _____					
Total Variable Cost \$ 187.92 _____					
3. Income Above Variable Costs \$ 73.33 _____					
4. Fixed Costs					
Machinery Acre 35.36 1.00 35.36 _____					
Tractors Acre 14.56 1.00 14.56 _____					
Land (Net Rent) Acre 80.00 1.00 80.00 _____					
Total Fixed Costs \$ 129.91 _____					
5. Total Costs \$ 317.83 _____					
6. Returns To Risk And Management \$ -56.58 _____					

Land Charge - Cash Rent Irrigation - Surface
Government Program Payments Should Be Considered
When Determining Crop Income.

Breakeven Prices		
If	95.00 Bu. Spring Wheat	Are Produced:
	To Cover Preharvest Variable Inputs	1.550
	To Cover Harvest Variable Inputs	0.428
	To Cover Fixed Inputs	1.368
	To Cover All Costs Except Risk	3.346

SPRING WHEAT SEED
SOUTHWESTERN IDAHO

	Unit	Price Or Cost/Unit	Quantity Per Acre	Value Or Cost/Acre	Your Value
1. Gross Receipts From Production					
Certified Wheat	Bu.	3.75	86.00	322.50	_____
Feed Wheat	Bu.	2.00	9.00	18.00	_____
Total				\$ 340.50	_____
2. Variable Costs					
Preharvest					
Foundation Seed	Lb.	0.35	100.00	35.00	_____
Nitrogen	Lb.	0.26	135.00	35.10	_____
Phosphate	Lb.	0.21	50.00	10.50	_____
Custom Fertilize	Acre	6.00	1.00	6.00	_____
2-4-D Amine	Qt.	1.15	2.00	2.30	_____
Water Assessment	Acre	20.00	1.00	20.00	_____
Crop Insurance	Acre	6.08	1.00	6.08	_____
Field Inspection	Acre	2.10	1.00	2.10	_____
Machinery	Acre	13.24	1.00	13.24	_____
Tractors	Acre	5.06	1.00	5.06	_____
Irrigation Supplies	Acre	3.75	1.00	3.75	_____
Labor(Tractor & Machinery)	Hour	6.00	1.81	10.84	_____
Labor(Irrigation)	Hour	4.00	4.00	16.00	_____
Other Labor	Hour	6.00	0.10	0.60	_____
Interest On Op. Cap.	Dol.	0.11	58.46	6.43	_____
Subtotal, Pre-Harvest				\$ 173.01	_____
Harvest Costs					
Custom Combine	Acre	27.00	1.00	27.00	_____
Machinery	Acre	9.49	1.00	9.49	_____
Labor(Tractor & Machinery)	Hour	6.00	0.70	4.18	_____
Subtotal, Harvest				\$ 40.67	_____
Total Variable Cost				\$ 213.67	_____
3. Income Above Variable Costs					
				\$ 126.83	_____
4. Fixed Costs					
Machinery	Acre	35.36	1.00	35.36	_____
Tractors	Acre	14.56	1.00	14.56	_____
Land (Net Rent)	Acre	80.00	1.00	80.00	_____
Total Fixed Costs				\$ 129.91	_____
5. Total Costs					
				\$ 343.59	_____
6. Returns To Risk And Management					
				\$ -3.09	_____

Land Charge - Cash Rent Irrigation - Surface
Ninety Percent Of The Crop Meets Certified Seed Grade.
The Remainder Of The Crop Is Sold As Feed Wheat.

Breakeven Prices	
If	86.00 Bu. Certified Wheat Are Produced:
	To Cover Preharvest Variable Inputs 1.802
	To Cover Harvest Variable Inputs 0.264
	To Cover Fixed Inputs 1.301
	To Cover All Costs Except Risk 3.786

SPRING WHEAT-SOFT WHITE
SOUTHCENTRAL IDAHO

	Unit	Price Or Cost/Unit	Quantity Per Acre	Value Or Cost/Acre	Your Value
1. Gross Receipts From Production					
Spr.Wheat-Sw.	Bu.	2.65	110.00	\$ 291.50	_____
Total				\$ 291.50	_____
2. Variable Costs					
Preharvest					
Wheat Seed	Lb.	0.13	105.00	13.65	_____
Nitrogen	Lb.	0.26	100.00	26.00	_____
Phosphate	Lb.	0.22	40.00	8.80	_____
Custom Fertilize	Acre	5.00	1.00	5.00	_____
2-4-D Amine	Qt.	2.55	0.75	1.91	_____
Avenge	Qt.	11.00	1.50	16.50	_____
Sprayer	Acre	1.25	2.00	2.50	_____
Water Assessment	Acre	13.25	1.00	13.25	_____
Crop Insurance	Acre	12.00	1.00	12.00	_____
Machinery	Acre	9.88	1.00	9.88	_____
Tractors	Acre	15.89	1.00	15.89	_____
Irrig. Electricity & Repairs	Acre	40.28	1.00	40.28	_____
Labor(Tractor & Machinery)	Hour	6.00	2.23	13.40	_____
Labor(Irrigation)	Hour	5.25	3.80	19.95	_____
Interest On Op. Cap.	Dol.	0.11	66.17	7.28	_____
Subtotal, Pre-Harvest				\$ 206.29	_____
Harvest Costs					
Custom Combine	Acre	40.00	1.00	40.00	_____
Custom Hauling	Cwt.	0.27	66.00	17.82	_____
Subtotal, Harvest				\$ 57.82	_____
Total Variable Cost				\$ 264.11	_____
3. Income Above Variable Costs				\$ 27.39	_____
4. Fixed Costs					
Machinery	Acre	26.85	1.00	26.85	_____
Tractors	Acre	31.00	1.00	31.00	_____
Land (Net Rent)	Acre	100.00	1.00	100.00	_____
Total Fixed Costs				\$ 157.85	_____
5. Total Costs				\$ 421.96	_____
6. Returns To Risk And Management				\$-130.46	_____

Irrigated - Center Pivot Land Charge - Cash Rent
Government Program Payments Should Be Considered
When Determining Crop Income.

Breakeven Prices	
If 110.00 Bu. Spr.Wheat-Sw. Are Produced:	
To Cover Preharvest Variable Inputs	1.88
To Cover Harvest Variable Inputs	0.53
To Cover Fixed Inputs	1.44
To Cover All Costs Except Risk	3.84

SPRING WHEAT SEED
SOUTHCENTRAL IDAHO

	Unit	Price Or Cost/Unit	Quantity Per Acre	Value Or Cost/Acre	Your Value
1. Gross Receipts From Production					
Certified Wheat	Bu.	3.65	99.00	361.35	_____
Feed Wheat	Bu.	2.00	11.00	22.00	_____
Total				\$ 383.35	_____
2. Variable Costs					
Preharvest					
Foundation Seed	Lb.	0.35	105.00	36.75	_____
Nitrogen	Lb.	0.26	100.00	26.00	_____
Phosphate	Lb.	0.22	40.00	8.80	_____
Custom Fertilize	Acre	5.00	1.00	5.00	_____
2-4-D Amine	Qt.	2.55	0.75	1.91	_____
Avenge	Qt.	11.00	1.50	16.50	_____
Sprayer	Acre	1.25	2.00	2.50	_____
Water Assessment	Acre	13.25	1.00	13.25	_____
Crop Insurance	Acre	12.00	1.00	12.00	_____
Field Inspection	Acre	2.10	1.00	2.10	_____
Machinery	Acre	9.88	1.00	9.88	_____
Tractors	Acre	15.89	1.00	15.89	_____
Irrig. Electricity & Repairs	Acre	40.28	1.00	40.28	_____
Labor(Tractor & Machinery)	Hour	6.00	2.23	13.40	_____
Labor(Irrigation)	Hour	5.25	3.80	19.95	_____
Interest On Op. Cap.	Dol.	0.11	76.24	8.39	_____
Subtotal, Pre-Harvest				\$ 212.64	_____
Harvest Costs					
Custom Combine	Acre	40.00	1.00	40.00	_____
Custom Hauling	Cwt.	0.27	66.00	17.82	_____
Subtotal, Harvest				\$ 57.82	_____
Total Variable Cost				\$ 270.46	_____
3. Income Above Variable Costs					
				\$ 112.79	_____
4. Fixed Costs					
Machinery	Acre	26.85	1.00	26.85	_____
Tractors	Acre	31.00	1.00	31.00	_____
Land (Net Rent)	Acre	100.00	1.00	100.00	_____
Total Fixed Costs				\$ 157.85	_____
5. Total Costs					
				\$ 428.31	_____
6. Returns To Risk And Management					
				\$ -44.96	_____

Irrigated - Center Pivot Land Charge - Cash Rent
Ninety Percent Of The Crop Meets Certified Seed Grade.
The Remainder Of The Crop Is Sold As Feed Wheat.

Breakeven Prices
If 99.00 Bu. Certified Wheat Are Produced:

To Cover Preharvest Variable Inputs	1.93
To Cover Harvest Variable Inputs	0.36
To Cover Fixed Inputs	1.37
To Cover All Costs Except Risk	4.10

SPRING WHEAT - SOFT WHITE
SOUTHEASTERN IDAHO

	Unit	Price Or Cost/Unit	Quantity Per Acre	Value Or Cost/Acre	Your Value
1. Gross Receipts From Production					
Spr.Wheat-Sw.	Bu.	2.60	95.00	\$ 247.00	_____
Total				\$ 247.00	_____
2. Variable Costs					
Preharvest					
				\$	
Wheat Seed	Lb.	0.11	100.00	11.00	_____
Nitrogen	Lb.	0.25	100.00	25.00	_____
Phosphate	Lb.	0.20	40.00	8.00	_____
Custom Fertilize	Acre	4.50	2.00	9.00	_____
2-4-D Amine	Qt.	2.35	1.00	2.35	_____
Air Spray	Acre	3.25	1.00	3.25	_____
Assert	Qt.	27.00	0.75	20.25	_____
Custom Gr. Spray	Acre	4.25	1.00	4.25	_____
Water Assessment	Acre	11.00	1.00	11.00	_____
Crop Insurance	Acre	11.50	1.00	11.50	_____
Machinery	Acre	14.56	1.00	14.56	_____
Tractors	Acre	7.03	1.00	7.03	_____
Irrig. Electricity & Repairs	Acre	25.60	1.00	25.60	_____
Labor(Tractor & Machinery)	Hour	6.00	1.20	7.20	_____
Labor(Irrigation)	Hour	4.90	6.40	31.36	_____
Interest On Op. Cap.	Dol.	0.11	51.56	5.67	_____
Subtotal, Pre-Harvest				\$ 197.01	_____
Harvest Costs					
				\$	
Machinery	Acre	14.23	1.00	14.23	_____
Labor(Tractor & Machinery)	Hour	6.00	0.91	5.45	_____
Subtotal, Harvest				\$ 19.68	_____
Total Variable Cost				\$ 216.69	_____
3. Income Above Variable Costs				\$ 30.31	_____
4. Fixed Costs					
				\$	
Machinery	Acre	40.70	1.00	40.70	_____
Tractors	Acre	14.21	1.00	14.21	_____
Land (Net Rent)	Acre	85.00	1.00	85.00	_____
Total Fixed Costs				\$ 139.92	_____
5. Total Costs				\$ 356.61	_____
6. Returns To Risk And Management				\$-109.61	_____

Land Charge - Cash Rent Irrigated - Hand Line
Government Program Payments Should Be Considered
When Determining Crop Income.

Breakeven Prices		
If	95.00 Bu. Spr.Wheat-Sw.	Are Produced:
	To Cover Preharvest Variable Inputs	2.074
	To Cover Harvest Variable Inputs	0.207
	To Cover Fixed Inputs	1.473
	To Cover All Costs Except Risk	3.754

SPRING WHEAT SEED - SOFT WHITE
SOUTHEASTERN IDAHO

	Unit	Price Or Cost/Unit	Quantity Per Acre	Value Or Cost/Acre	Your Value
1. Gross Receipts From Production					
Certified Wheat	Bu.	3.60	86.00	\$ 309.60	_____
Feed Wheat	Bu.	2.00	9.00	18.00	_____
Total				\$ 327.60	_____
2. Variable Costs					
Preharvest					
Foundation Seed	Lb.	0.35	100.00	\$ 35.00	_____
Nitrogen	Lb.	0.25	100.00	25.00	_____
Phosphate	Lb.	0.20	40.00	8.00	_____
Custom Fertilize	Acre	4.50	2.00	9.00	_____
2-4-D Amine	Qt.	2.35	1.00	2.35	_____
Air Spray	Acre	3.25	1.00	3.25	_____
Assert	Qt.	27.00	0.75	20.25	_____
Custom Gr. Spray	Acre	4.25	1.00	4.25	_____
Water Assessment	Acre	11.00	1.00	11.00	_____
Crop Insurance	Acre	11.50	1.00	11.50	_____
Field Inspection	Acre	2.10	1.00	2.10	_____
Machinery	Acre	14.56	1.00	14.56	_____
Tractors	Acre	7.03	1.00	7.03	_____
Irrig. Electricity & Repairs	Acre	25.60	1.00	25.60	_____
Labor(Tractor & Machinery)	Hour	6.00	1.20	7.20	_____
Labor(Irrigation)	Hour	4.90	6.40	31.36	_____
Other Labor	Hour	6.00	0.10	0.60	_____
Interest On Op. Cap.	Dol.	0.11	59.82	6.58	_____
Subtotal, Pre-Harvest				\$ 224.62	_____
Harvest Costs					
Machinery	Acre	14.23	1.00	\$ 14.23	_____
Labor(Tractor & Machinery)	Hour	6.00	0.91	5.45	_____
Subtotal, Harvest				\$ 19.68	_____
Total Variable Cost				\$ 244.30	_____
3. Income Above Variable Costs					
				\$ 83.30	_____
4. Fixed Costs					
Machinery	Acre	40.70	1.00	\$ 40.70	_____
Tractors	Acre	14.21	1.00	14.21	_____
Land (Net Rent)	Acre	85.00	1.00	85.00	_____
Total Fixed Costs				\$ 139.92	_____
5. Total Costs					
				\$ 384.22	_____
6. Returns To Risk And Management					
				\$ -56.62	_____

Land Charge - Cash Rent Irrigated - Hand Line
Ninety Percent Of The Crop Meets Certification Grade.
The Remainder Of The Crop Is Sold As Feed Wheat.

Breakeven Prices
If 86.00 Bu. Certified Wheat Are Produced:

To Cover Preharvest Variable Inputs	2.403
To Cover Harvest Variable Inputs	0.020
To Cover Fixed Inputs	1.418
To Cover All Costs Except Risk	4.258