1992 CROP INPUTS COST SUMMARY FOR SOUTHERN IDAHO

by

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A.E. Extension Series No. 92-20

December 4, 1992

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Background

The objective of this publication is to provide producers, lenders and agri-businesses with information needed to develop or modify cost of production estimates.

The University of Idaho has developed and published cost of production estimates (enterprise budgets) for many of the major crops grown in the state. Crop budgets are revised every other year in odd numbered years. The last revision was done in 1991 and the next one will occur in 1993. Livestock budgets are revised in the even-numbered years. A list of the current crop and livestock enterprise budgets and information on how to order them is found on pages 11 and 12.

Crop budgets are developed on a regional basis, rather than on a state-wide basis, making the information more useful individual producers. The three regional areas in southern Idaho are: 1) Southwestern Idaho (SWI) with primary emphasis on Canyon and Elmore counties, 2) Southcentral Idaho (SCI) with primary emphasis on Jerome, Twin Falls, Cassia and Minidoka counties, and 3) Southeastern Idaho (SEI) with primary emphasis on Power, Bingham, Bonneville, Madison, Fremont and Jefferson counties.

Procedure

The information contained in this publication was obtained by a confidential telephone survey conducted in July 1992. Sample selection was not on a random basis, nor was the sample stratified according to characteristics of the firms. The objective was to obtain information across each of the geographic regions, as well as from different firms within a region. Firms with several outlets in a given geographic area were only sampled once.

The information provided in this publication is the average cost reported for a given region. If the price of a chemical or fertilizer varied from the average by more than 25 percent, it was removed. This occurred on only three items.

The survey included four different types of businesses or suppliers. These were 1) irrigation districts or canal companies, 2) aerial applicators, 3) agricultural lenders and 4) chemical and fertilizer dealers. The number of companies who provided information by area is shown in Table 1.

If you have any questions or comments regarding the information contained in this publication, contact Paul Patterson at the Idaho Falls R & E Center, 1776 Science Center Drive, Idaho Falls, ID 83402 (529-8376).

A custom rate charge found in many of the crop enterprise budgets is the cost of aerial application of chemicals and fertilizer. The charge varies by the quantity of material applied. Charges for application of liquid material tends to fall into the four size categories shown in Table 2: 3-gallon, 5-gallon, 7-gallon, and 10-gallon. Dry material is charged on a per pound basis.

Most custom applicators have a sliding scale, charging less when a large acreage is involved. They also charge less when fields are large and easily accessible, compared to small, irregular shaped fields. The values in Table 2 reflect these differences. Most custom applicators also have a minimum charge to leave the airport.

Water Assessments

The average water assessment charge per acre for each region is shown in Table 3. Assessments on a per share of water basis were converted to a per acre charge. The water assessments among the group surveyed in Southwestern Idaho ranged from a low of \$18 per acre to a high of \$26. The range in water assessments among the four water organizations in Southcentral Idaho ranged from \$17 to \$35 per acre. Water charges in Southeastern Idaho are considerable lower than the other two areas. The water assessment among the five water organizations survey ranged from \$8.13 to \$14.20 per acre. Four of the five had charges under \$9 per acre.

Interest Rates

Ten years ago asking agricultural lenders what interest rate they charged for short, intermediate and long term debt resulted in a fairly short and straight-forward answer. The answer to this question today, however, is not quite so simple. In addition, lenders now offer variable rate as well as the traditional fixed rate loans.

Most agricultural lenders apply a risk rating to each customer. The more secure the loan, the lower the interest rate the customer pays. Loan volume is also considered. A customer borrowing more money generally receives a more favorable interest rate.

Operating loan interest rates ranged between 7.5 percent and 11.5 percent. The value of 9 percent, shown in Table 4 and useful in revising 1991 crop enterprise budgets, assumes a low credit risk borrower with a moderate to high loan volume.

Interest rates on intermediate loans, money borrowed from three to seven years, varied from 8 to 12 percent. Variable interest was generally .75 to 1.25 percent below fixed interest rates. The value of 10 percent, shown in Table 4 and useful in revising 1991 crop enterprise budgets, assumes a fixed rate loan and a low credit risk borrower.

Other Input Costs

Tables 3 and 4 contain the cost for a variety of different inputs that do not fit one of the input specific categories found in Tables 5 through 8. A number of these items are specific to a particular commodity, such as cutting and treating potato seed. Others, such as fumigation, can apply to a variety of different crops. Labor costs shown in Table 4 were not based on survey information.

The component fertilizer prices shown in Table 3 should help revise enterprise budgets where fertilizer is specified in pounds (units) of element applied, not by total pounds of material. Table 8 contains the price per ton of various source materials.

Herbicide Costs

Table 5 shows the price per pound for dry material or the price per quart for liquid herbicides. The price of liquids was generally based on a 2-1/2 gallon container price. While the list of herbicides is not all encompassing, it covers a wide range of products currently being use to control the more common weed problems on row crops, small grains and other crops for which the University of Idaho has developed budgets. Prices for alternative formulations was obtained when these were commonly applied in the area.

Fungicides, Blight Control and Fumigant Prices

Prices per pound or per quart for material commonly used as a fungicide, to control blight or as a soil fumigant, are found in Table 6. Price for the liquid materials was based on a price for 2-1/2 gallon containers.

Insecticides and Nematicides Prices

Insecticide and nematicide prices for 1992 are shown in Table 7. Prices for dry material are per pound of material and for liquids the price is based on a 2-1/2 gallon container price.

Fertilizer Prices

Table 8 contains the 1992 price information on fertilizers. The prices for the macro nutrients are per ton for the total material. The composition of the various materials is also shown. Prices for micro nutrients (trace elements) are given per pound of element. Some caution is advised on the prices for the trace elements. The price variation was extreme and there may have been subtle but important differences in the source material that we were not aware of.

Enterprise Budgets

A list of the Idaho crop and livestock budgets currently available are found on page 11. These are listed by region, in the case of crop budgets, and by type of livestock, for the livestock budgets. Individual budgets can be ordered, or budgets for an entire region or the state, as shown on page 12. Individual budgets can be obtained at county Extension offices as well.

Table 1. Crop Input Survey Respondents by Area, 1992.

	SWI	SCI	SEI	Total
Aerial Applicators	5	5	5	15
Irrigation Districts or Canal Companies	4	4	5	13
Agricultural Lenders	2	2	4	8
Chemical & Fertilizer Dealers	5	4	6	15

Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Southeastern Idaho (SEI).

Table 2. Aerial Applicators Custom Rates, 1992.

Price per acre	SWI	SCI	SEI
		-	-
3-gallon: Standard	\$5.25	\$5.75	\$4.03
Large	4.72	4.72	3.76
5-gallon: Standard	6.35	6.50	4.80
Large	5.34	6.00	4.53
7-gallon: Standard	7.63	5.65	5.75
Large	7.00	5.65	5.50
10-gallon: Standard	7.80	7.66	6.06
Large	6.78	6.91	5.75
Dry Material:			
Minimum per acre	6.00	7.20	3.81
Price per 1b	.06	.04	.06
Minimum charge to leave airport	\$180	\$130	\$125

Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Southeastern Idaho (SEI).

Table 3. Other Input Costs, Varying By Region.

	SWI	SCI	SEI
Water Assessment / acre	\$23.00	\$25.25	\$10.00
Fumigation / acre	\$225	\$200	\$175
Potato Seed / cwt	\$ 7.75	\$ 7.25	\$ 6.00
Potato Seed Cut & Treat Per cwt	\$ 1.50	\$ 1.50	\$ 1.50
Pre-plant Nitrogen*	\$.26	\$.26	\$.25
ost-plant Nitrogen*	\$.30	\$.30	\$.26
Phosphate*	\$.24	\$.25	\$.22
Potassium*	\$.14	\$.13	\$.13
Sulfur*	\$.15	\$.16	\$.14

Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Southeastern Idaho (SEI).

*Fertilizer prices are for pounds of element applied and are based on values found in Table 8. Price per pound will vary depending on source material.

Table 4. Other Input Costs, With Little Variation By Region.

9.0 %	
11.0 %	
\$9.50 /hr	
\$6.50 /hr	
\$6.50 /hr	
\$1.25/gal	
\$.85/gal	
	11.0 % \$9.50 /hr \$6.50 /hr \$6.50 /hr \$1.25/gal

Labor includes a base wage, plus 25 percent for taxes and benefits. Wage rates not based on survey data.

Price per qt. or lb.	SWI	SCI	SEI
2,4-DB	\$7.80	\$8.29	\$8.29
2,4-D Amine (41b)	\$2.72	\$2.73	\$2.58
2,4-D Ester (LV4)	\$3.19		
2,4-D Ester (LV6)	\$4.25		\$4.33
Accent	\$32.00		
Assert	\$29.98	\$29.20	
Atrazine 4L	\$3.44	\$3.27	
Atrazine 90 L	\$3.54	\$3.24	
Atrazine 90 DF	\$3.37		
Avenge	\$11.06	\$10.92	
Banvel 4E	\$19.56	\$19.24	\$20.68
Banvel SGF		\$8.89	
Basagran	\$16.76		
Betamix	\$21.30	\$20.83	\$19.50
Bicep	\$8.79	1,000	V 2423
BladeX 4L	\$6.51		
Bronate (21b)	\$13.81	\$14.21	\$13.80
Buctril (21b)	\$13.39	\$14.20	\$13.63
Curtail	\$8.23		\$8.07
Curtail M	\$9.95		177.77
Dacthal	\$5.35	\$4.85	
Diquat	\$19.20	\$17.82	\$19.63
Dual AD	\$17.13	\$16.49	\$17.52
Dual DF	411.12	420.45	\$2.24
Eptam 10G			\$0.46
Eptam L	\$7.04	\$6.91	\$7.10
Eradicane	\$7.42	\$6.47	7
Express	41.12	\$21.05	
Far-Go 10G	\$0.88	\$0.82	\$0.83
Far-Go L	\$10.25	10.05	\$8.42
Glean	\$18.87	\$19.19	\$18.74
Goal	\$18.32	\$18.62	
Harmony Extra	\$12.48	\$12.42	\$12.44
Hoelon	\$14.38	\$14.56	\$14.78
Landmaster BW		\$5.19	
Lasso	\$6.71	\$6.75	25 (30
MCPA 21b			\$2.36
MCPA-Amine	\$3.50	\$3.54	\$3.43
MCPA-Ester	\$4.22	\$4.07	\$4.02
Nortron	\$15.80	\$15.84	\$15.00
Poast	\$29.97	\$29.44	
Poast Plus	\$12.08		
Princess			\$3.49
Prowl	\$8.15	\$7.79	\$8.04
Pursuit	\$1.73	41.15	1.5.5.

Table 5. (cont.) Southern Idaho Herbicide Costs, 1992.

Price per qt. or lb.	SWI	SCI	SEI
Pyramin DF			\$13.50
Pyramin L		\$19.47	\$19.50
Rattler		\$43.16	
Ro-Neet	\$13.35	\$12.86	\$12.75
Roundup	\$11.85	11.92	\$12.50
Sencor DF (Lexone)	\$25.55	\$24.22	\$25.46
Sencor L (Lexone)	\$33.94	\$30.79	\$32.25
Sinbar	\$10.81		
Sonalan	\$8.62	\$8.42	
Stinger	\$121.42		
Treflan 4 Ec	\$8.82	\$7.37	\$9.13
Treflan MTF		\$8.08	
Velpar	\$14.04	\$14.62	\$13.00
Weedmaster		1,54,519	\$6.91
Weedone 638	\$5.00		

Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Southeastern Idaho (SEI).

Table 6.
Southern Idaho Fungicide, Blight Control & Fumigant Cost, 1992

Southern Idano Fungicide, Bi	ight control	a rumigan	t Cost, 199
Price per qt. or lb.	SWI	SCI	SEI
Seed-Piece Treatment:			
Dithane DF	\$2.75	\$2.37	\$2.61
Dithane F45	\$3.51		\$3.68
Dithane M45	\$2.60		112000
Maneb 80		\$3.04	
Maneb 8%		\$0.52	
Manzate 200 DF	\$3.10	1000	
Blight Control:			
Bravo 500		\$12.00	
Bravo 720	\$12.78	\$13.06	\$12.90
Champ	\$4.53	\$3.98	\$4.00
Dithane		\$3.68	
Maneb Plus Zinc F4		76.55	\$3.45
Rovral	\$40.89	\$39.89	
FUMIGANTS: Price per qt. or 1	b.		
Telone	\$2.38	\$2.58	\$2.38
VaPam	10.112	\$0.76	\$0.75

Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Southeastern Idaho (SEI).

Price per qt. or lb.	<u>SWI</u>	SCI	SEI
Ambush	\$29.12	\$28.73	\$33.50
Asana XL	\$33.41	\$32.04	\$33.68
Capture	\$127.19	*******	*
Counter	\$1.86		\$1.62
Cygon 400 (Dimethoate)	\$7.48	\$7.91	42.00
Dimethoate 267	\$5.00		
Dimethoate 400	\$6.50	\$6.88	
Di-Syston L	\$15.21	\$15.55	\$16.25
Di-Syston 10G	\$1.43	4,550,040	\$1.42
Di-Syston 14G	\$39.50		
Di-Syston 15G	\$1.34	\$1.37	
Dyfonate 10G	\$1.28	\$1.29	
Dyfonate 20G	\$2.29		
Dyfonate 4E	\$11.85	\$12.02	\$12.00
Furadan 15G	\$1.68	\$1.69	\$1.77
Furadan 4F	\$15.67		\$14.38
Furadan L	\$16.26	\$16.92	\$16.01
Guthion	\$4.75	1500	
Lorsban 15G	\$1.94		
Lorsban 4E	\$12.02	\$11.84	\$12.25
Malathion (5 lb)	\$4.83		\$4.88
Malathion 4% Powder		\$11.29	
Malathion 5E (5%L)		\$4.96	
Malathion 6%	\$0.56		
Malathion 57	\$4.60	\$5.25	
Malathion 8	\$7.13		
Malathion DMF	\$4.90		
Methyl Parathion	\$5.82		
Mo-Cap G	\$1.31	\$1.19	\$1.20
Mo-Cap L	\$16.02	\$15.76	\$15.20
Monitor 4	\$17.02	\$16.47	\$17.77
Parathion 4EC	\$5.53		
Parathion 8	\$8.38	\$8.68	
Penncap-M	\$5.48		
Pounce	\$45.04	\$44.17	\$45.50
Reldan	\$2.25		
Sevin Carb.		\$5.63	
Sevin XLR Plus	\$6.14	\$6.22	\$6.35
Supracide	\$10.49	the Artist	
Temik	\$2.90		
Thimet (Phorate)	\$1.76	\$1.60	\$1.55

Table 8. Southern Idaho Fertilizer Prices, 1992.

Price per ton	SWI	SCI	SEI
Nitrogen:			
Ammonium Nitrate (34-0-0-0)	\$178.00	\$177.00	\$167.67
Ammonium Sulfate (20-0-0-24)	\$144.25	\$145.25	\$146.17
Urea (46-0-0-0)	\$216.67	\$227.75	\$205.60
Anhydrous Ammonia (82%)	\$320.00	\$275.50	\$281.50
Aqua Ammonia (21%)	\$92.00	\$80.00	
Solution 32 (Urea) ((32-0-0-0)	\$193.14	\$192.25	\$164.60
Thysol (12-0-0-26)	\$207.28	\$198.50	\$161.00
Phosphate:			
16-20-0	\$208.00	\$198.00	\$191.60
11-52-0	\$264.75	\$259.25	\$243.00
Treble Superphosphate (0-45-0)	\$226.20	\$225.00	\$210.00
10-34-0	\$267.83	\$256.00	\$266.00
Potash:			
Muriate of Potash (0-0-60-0)	\$167.25	\$162.67	\$161.83
Sulfate of Potash (0-0-50-17)	*********	\$254.00	\$250.00
Trace: Price per lb.			
Zinc	\$1.05	\$0.91	\$0.91
Manganese	\$.90	\$1.54	\$1.66
Boron	\$3.29	\$3.06	\$3.11
Copper	\$3.79	\$3.40	\$4.17
Iron	\$0.27	\$0.31	\$0.94
Sulfur	\$0.16	\$0.16	\$0.14
Gypsum	\$0.03	4.5.5.25.4	0.10

Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Southeastern Idaho (SEI).

Publications

	<u>P</u>	ublications	
CROPS BUDG	GETS (1991-92)		
	DAHO - DISTRICT I		
MS 101-1		MS 104-10	
MS 101-2		MS 104-11	
	Winter Rapeseed	MS 104-12	
	Grass Seed - Irrigated Grass Seed Establishment - Irrigated	MS 104-13 MS 104-14	Spring Wheat - Hard Red Spring Wheat - Soft White
MS 101-6		MS 104-15	Winter Wheat - Dryland
MS 101-7			Alfalfa Hay - Production
MS 101-8		MS 104-17	Alfalfa Establishment in Grain Stubble
MS 101-9			BUDGETS (1992)
MS 101-10		EBB-D1-92	Dairy Enterprise Annual Cow Budget
MS 101-11	Oats	2000.02	18,000-pound Milk Average Holstein Herd
	Winter Wheat	EBB-D2-92	그런 그렇다 하는 데 그렇게 한 물이 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다.
MS 101-13	Alfalfa Hay	EDD-U2-92	Dairy Enterprise Annual Cow Budget 21,000-pound Milk Average Holstein Herd
	Alfalfa Establishment with Barley	FDD Do oo	
	Grass Hay	EBB-D3-92	Dairy Enterprise Annual Cow Budget
MS 101-16	Grass Hay Establishment with Barley ERN IDAHO - DISTRICT II	222.000	13,500-pound Milk Average Jersey Herd
MS 102-1	Commercial Bean	EBB-DR1-92	Holstein Replacement Enterprise Budget
	Corn Seed	EBB-DR2-92	Jersey Replacement Enterprise Budget
MS 102-2		EBB-CC1-92	Cow-Calf Summer on Private Range
MS 102-4			Winter Feeding Necessary
MS 102-5	Onions	ERR CC2 02	Cow-Calf Private Pasture and Public Range
	Commercial Potatoes: Non-farm Storage	EDD-C02-92	Winter Feeding Necessary
MS 102-7		EDD 000 00	
MS 102-8	Alfalfa Seed		Cow-Calf Winter on Public Range
MS 102-9		EBB-CC4-92	Cow-Calf Summer on Public Range
	Spring Wheat		Winter Feeding Necessary
	Winter Wheat	EBB-CC5-92	Cow-Calf Summer on Public Range
	Alfalfa Hay - Production		Winter on Harvested Feeds and Crop Aftermath
	Alfalfa Hay - Establishment	EBB-ST1-92	Stocker; Wintered to Go to Grass
A CONTRACTOR OF THE PARTY OF TH	Alfalfa Hay - Establishment with Oats	222.2.1.1.22	Bought in Winter, Sold in Fall
MS 102-15	Pasture - Establishment	FRR-ST2-02	Stocker; Wintered to Go to Feedlot
	RAL IDAHO - DISTRICT III	200-012-02	Bought in Fall, Sold in Spring
	Commercial Beans	EDD CTO OO	[12] 보이 전투 및 [2] 이 항상 생활이 이번 생기가 있다.
	Garden Beans	EDD-313-92	Stocker; No Wintering Bought in Spring, Sold in Fall
MS 103-3			
MS 103-4	Field Corn	EBB-FL1-92	
MS 103-5	Sweet Corn	22.20	Calf to Slaughter; Concentrate Ration
MS 103-6	Peas - Green Processing	EBB-FL2-92	Idaho Cattle Feedlot
MS 103-7	Peas		Yearling to Slaughter; Concentrate Ration
MS 103-8	Commercial Potatoes: Non-farm Storage	EBB-SR1-92	Sheep-Range
MS 103-9	Sugarbeets		Ewes on Range, Lambs on Drylot
	Alfalfa Seed		Winter Feeding Necessary
MS 103-11		EBB-SR2-92	Sheep-Range
	Malting Barley Hard Red Spring Wheat		Ewes and Lambs on Range
	Spring Wheat - Soft White		Winter Feeding Necessary
	Winter Wheat - Soft White	EBB-SR3-92	Sheep-Range
	Alfalfa Hay	in a to the fact that is	Ewes and Lambs on Range
	Alfalfa Establishment with Peas		Ewes Winter on Crop Aftermath
MS 103-18	Alfalfa Establishment following Winter Wheat	EBB-SR4-92	Sheep Range
	and Camas Counties		Ewes and Lambs on Range
	Spring Barley - Irrigated		Wintered on Alfalfa Pasture
	Spring Barley - Dryland	EBB-SF1-92	Sheep-Farm Flock
	Spring Wheat - Dryland	200 01 1 02	Ewes on Pasture, Lambs on Drylot
	Spring Wheat - Irrigated	EDD CEO OO	Sheep-Farm Flock
	Alfalfa Hay	EDD-312-92	Ewes and Lambs on Drylot
	Alfalfa Establishment - Irrigated		4. B.
	Alfalfa Hay - Dryland	EBB-SF3-92	Sheep-Farm Flock
	Alfalfa Establishment - Dryland i, Custer, Butte Countles		Ewes and Lambs on Drylot
MS 103-27			Free Choice Onions Available
	Alfalfa Hay	EBB-SW1-92	100 Sow Farrow to Finish
	Alfalfa Establishment with Barley		Total Confinement
	Alfalfa Establishment with Oats	EBB-SW2-92	300 Sow Farrow to Finish
	RN IDAHO - DISTRICT IV	COT 107	Semi-Confinement
MS 104-1	Commercial Potatoes: Non-farm Storage		Modified Open Front Finishing Facilities
	Commercial Potatoes: On-farm Storage	FRR-SW3-01	50 Sow Farrow to Finish
MS 104-3	Chipping Potatoes: On-farm Storage	200 0110-91	Semi-Confinement
MS 104-4	Seed Potatoes - G-4		Open Front Facilities
MS 104-5	Sugarbeets	EDD CIAM OO	
MS 104-6	Dry Pea Seed	EBB-5W4-92	150 Sow Farrow to Finish Semi-Confinement
MS 104-7	Spring Canola		Open Front Facilities
MS 104-8	Winter Rapeseed		Sport From Lacinado
MS 104-9	Spring Feed Barley		

ENTERPRISE BUDGET AND ENTERPRISE BUDGET WORKSHEET ORDER FORM

Below is a list of enterprise budgets and data disks for the enterprise budget worksheet available through the University of Idaho Department of Agricultural Economics and Rural Sociology.

To order: Check the appropriate box or boxes next to the items desired and mail this order form and your check to:

Bob Smathers Department of Agricultural Economics & Rural Sociology University of Idaho Moscow, ID 83844

Make c	heck pay	able to: Bursa	r, University o	f Idaho.	Idaho residents add 5	5% for sales tax.	
	District I Crop Budgets - Northern Idaho: 16 budgets						
	District	\$8.10					
	District	III Crop Budg	gets - Southcen	tral Idaho:	30 budgets		\$13.90
	District (Each	\$8.45					
				7			\$17.15
	Enterprise Budget Worksheet Computer Program						
	Budge	t Worksheet P	rogram and Da	ata Disk	below, the appropria	te budget numb	
MS _		MS	MS	MS _	MS	MS	MS
MS		MS	MS	MS_	MS	MS	MS
MS	-	MS	MS	MS_	MS	MS	MS
Name:					Institution:		
Mailing	,						
Address	s:				Phone Number:		