1997 CROP INPUTS COST SUMMARY FOR IDAHO

by

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Background

The objective of this publication is to provide producers, lenders, agribusinesses and University of Idaho researchers and Extension personnel with information needed to develop or modify traditional or alternative cost of production estimates. This publication contains operating input costs used in the production of crops in Idaho. These include: herbicides, fungicides, insecticides/nematicides, fertilizer, seed, interest rates, labor costs, gasoline and diesel, water assessments, chemical and fertilizer custom applications and crop insurance rates.

The University of Idaho develops and publishes costs and returns (CAR) estimates -- also referred to as enterprise budgets -- for many of the major crops grown within the state. These CAR estimates are revised every other year in odd-numbered years. The latest revision was completed in the fall of 1997. Livestock CAR estimates are revised and published in even-numbered years. A list of current CAR estimates, information on how to download them from the Internet, and information on the cost and how to order are found on pages 15 and 16.

Idaho costs and returns estimates are developed for four regional areas of the state. Not only are there differences in crop production practices by region, but the crops produced can vary significantly between regions because of climatic and soil conditions. The four regional areas include: 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, 3) Southeastern Idaho (SEI) with primary emphasis on Power, Bingham, Bonneville, Madison, Fremont and Jefferson counties, and Northern Idaho (NI) with primary emphasis on Benewah, Bonner, Boundary, Clearwater, Kootenai and Latah counties.

Procedure

The cost data, interest rates and insurance rates provided in this publication are averages reported for a given region. The data was obtained by confidential surveys conducted during the summer and early fall of 1997. Sample selection was not on a random basis, nor was the sample stratified according to characteristics of the firms. The objective of the survey was to obtain information across each of the geographic regions, as well as from a variety of different firms within a region. Firms with several outlets in a given geographic area were only sampled once.

Five primary types of businesses were surveyed. These were 1) irrigation districts or canal companies, 2) aerial applicators, 3) agricultural lenders, 4) farm chemical and fertilizer dealers and 5) seed dealers. The price for seed potatoes was obtained from a survey of Idaho seed potato growers. The seed potato prices shown in Table 11 include the cost of uncut seed, plus transportation to the respective regions from the seed area..

Input Costs With No Regional Variation

Some input prices do not vary significantly between areas of the state. This is true for interest rates and labor. Fuel prices across Southern Idaho are also fairly similar, but typically higher by 5-7 cents per gallon in Northern Idaho. Inputs that vary little by region are found in Table 2. All other inputs are priced by region.

Interest Rates

Most agricultural lenders apply a risk rating to customers to determine the appropriate interest rate to charge. The more secure the loan, the lower the interest rate paid by the customer. Loan volume is also considered. A customer borrowing more money generally receives a more favorable interest rate. Rates also vary depending on whether the rate is variable or fixed over the loan period.

Average interest rates charged on operating and intermediate term loans are shown in Table 2. Operating loan interest rates among lenders surveyed ranged between 8.50 percent and 12.00 percent. A typical rate was 10.25 percent. This rate pertains to a fixed interest rate loan for a low credit risk customer borrowing a moderate to high loan amount. The interest on variable rate loans is on a prime plus basis, typically 1-3 percent above prime. The prime rate at the time of the survey was 8.5 percent. Interest rates on intermediate loans, money borrowed from one to five years, varied from 8.75 to 12.50 percent. A typical rate was 10.5 percent. This rate assumes a fixed rate loan for a low credit risk borrower. Variable interest rate loans ranged between 1.0 to 3.5 percent added to the prime rate, or 9.5 to 12 percent.

Labor

Labor charges vary according to the type of job and the skill of the laborer. Three categories of labor are shown in Table 2. Other labor pertains to unskilled, temporary labor hired to help during planting or harvesting. Irrigation labor is the hourly equivalent paid to move handlines or wheellines. Machinery labor includes skilled labor to operate tractors, machinery and trucks. The labor costs shown in Table 2, are based on a 1993 survey of growers in southern Idaho, updated using the wage rate index found in USDA's "Agricultural Prices." The rates include a base wage rate, plus the employers payroll tax contribution and other benefits. The value of benefits varies by the class of labor. The benefit rate is 20 percent for other labor, 25 percent for irrigation labor and 35 percent for machinery labor. These benefit rates also came from the 1993 survey.

Other Input With Regional Variation

Tables 4 and 5 include the costs for a variety of different inputs that do not fit one of the input specific categories found in Tables 6 through 12, or in the case of fertilizer, they summarize data found else where. Some 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.

Custom Rates

A custom rate charge to apply chemicals and fertilizer is found in many of the crop CAR estimates. Table 3 contains aerial application rates, while Table 4 contains the custom charges made to apply chemicals and fertilizers by various ground methods. Application charges vary by the quantity applied and for by type of material. The charge for apply liquid materials fall into the four size categories shown in Table 3: 3-gallon, 5-gallon, 7-gallon, and 10-gallon rates. Application of dry material is typically charged on a per pound basis with a minimum per acre charge. The minimum per acre charge on dry material is generally based on 100 pounds of material. Many custom aerial applicators have a sliding scale, charging less for a large acreages and more for smaller jobs. They may also charge less when fields are large and easily accessible, compared to small or irregular shaped fields. These same factors help explain some of the regional cost differences. Fields in Eastern Idaho tend to be large, while those in Western Idaho, and to some extent Southcentral Idaho, are smaller. The standard charge in Eastern Idaho is for large fields, while the standard charge in Western Idaho is for small fields. The values in Table 3 reflect these differences.

Table 4 lists the cost of applying chemicals and fertilizer by various ground application methods. This data was obtained primarily from fertilizer and chemical retailers who also apply the product. For some regions, Table 4 also contains the costs of other types of services, including: the cost per ton to impregnate fertilizer with a herbicide, the cost to apply sulfuric acid to kill potato vines, the charge for precision irrigation services and the cost to run a soil sample.

Irrigation Water Assessments

An average water assessment charge per acre for each region is shown in Table 5. Assessments on a per share of water basis were converted to a per acre charge. All of the canal companies and irrigation districts surveyed deliver water in an open ditch to the farmer.

Water assessments reported by the seven water organizations surveyed in Southwestern Idaho ranged from a low of $20.50 per acre to a high of $31.50. The range in water assessments reported by the four water organizations in Southcentral Idaho ranged from $19.50 to $35.00 per acre. Water charges in Southeastern Idaho were considerably lower than the other two areas of southern Idaho, ranging from $8.55 to $9.50 per acre. Four water organizations were surveyed in Southeastern Idaho.

Fertilizer Component Prices

The component fertilizer prices, shown in Table 5, can be used to revise cost estimates where fertilizer is specified by element, not by total pounds of material. Table 10 contains the price per ton of various source materials as well as the price per pound for micro nutrients. The component price will vary depending on the source material. The pre-plant nitrogen price in Table 5 is based on ammonium nitrate (34-0-0), post-plant nitrogen price is based on Solution 32 (32-0-0), dry phosphate price is based on 11-52-0 with the nitrogen valued at the price of nitrogen in ammonium nitrate, liquid phosphate price is based on 10-34-0 with the nitrogen valued at the price of ammonium nitrate, potash price is based on Muriate of potash (0-0-60), and sulfur is based on ammonium sulfate with the nitrogen valued at the price of ammonium nitrate.

Herbicide Costs

Table 6 shows the price per pound for dry material and the price per quart for liquid herbicides. The price of liquids was generally based on a 2-1/2 gallon container price and prices were rounded to the nearest $.05. While the list of herbicides is not all encompassing, it covers a wide range of products currently used on row crops, small grains and other crops for which the University of Idaho has developed CAR estimates.

Fungicides Prices

Prices per pound or per quart for commonly used fungicides are found in Table 7. Prices for the liquid materials were based on a 2-1/2 gallon container price and rounded to the nearest $.05.

Insecticides and Nematicides Prices

Insecticide and nematicide prices for 1997 are shown in Table 8. Dry material is priced on a per pound basis and the price of liquids is based on a 2-1/2 gallon container price. Prices were rounded to the nearest $.05.

Surfactant Prices

Prices per quart for commonly used surfactants are found in Table 9. Prices for liquid materials are based on a 2-1/2 gallon container price and rounded to the nearest $.05.

Fertilizer Prices

Table 10 contains the 1997 price information on fertilizers. The prices for the macro nutrients are per ton for the total material. The formulation 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.

Seed Prices

Table 11 contains 1997 seed prices by region. Prices are per pound or per hundred weight, except for sugarbeets which is given on a per unit basis. Seed prices were obtained only for those crops for which the University of Idaho presently publishes a CAR estimate. *Please keep in mind is that there is a great deal of variability in seed prices, particularly among different varieties.* The seed prices in Table 11 should be considered representative, but they are by no means comprehensive.

Crop Insurance

Crop insurance rates vary considerably even within a narrow geographic area. The variability is even greater when an entire region of the state is considered. The per acre crop insurance costs for the various crops, shown in Table 12, are calculated using "typical" insurance rates and crop values for 1996. Those typical rates and values were obtained from crop insurance companies in each region.

The insurance is based on hail-fire, not multiple peril. The values in Table 12 should not be used uncritically as insurance rates reflect risk. Higher insurance costs should be used in areas with high loss potential and vice versa for lower risk areas.

Costs and Returns Estimates

A list of Idaho crop and livestock CAR estimates currently available are found on page 15. These are listed by type of livestock and by region in the case of crops. CAR estimates can be ordered individually, by region or for the entire state, as shown on page 16. CAR estimates can also be obtained at county Extension offices as well.

Further Information

For additional information about publications and other resource materials available from the College of Agriculture, contact Ag Publications, University of Idaho, Moscow, ID 83844-2240 (885-7982).

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).

Table 1. Major Crop Input Survey Respondents by Area, 1997.

	NI*	SWI*	SCI*	SEI*	TOTAL
Irrigation Districts or Canal Companies	0	7	4	4	15
Agricultural Lenders**	-	-	-	-	6
Chemical & Fertilizer Dealers	6	5	4	3	18

* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Southeastern Idaho (SEI).
** One regional bank was contacted in each area, except Northern Idaho. The other 3 lending institutions operate statewide.

Table 2. Input Costs With No Regional Variation, 1997.

Operating Interest	10.25%
Intermediate Term Interest	10.75%
Machinery Labor*	$11.75
Irrigation Labor*	$ 7.70
Other Labor*	$ 7.20
Gasoline - bulk delivery**	$ 1.38
Diesel-bulk delivery**	$ .88
Cut & Treat Seed Potatoes per cwt	$ 1.70

* Labor includes a base wage plus 20 percent for taxes and benefits on other labor, 25 percent on irrigation labor, and 35 percent on machinery labor.
** Gasoline price includes road use tax, diesel price does not.

Table 3. Aerial Application Custom Rates, 1997.

Price per acre	NI*	SWI*	SCI*	SEI*
Liquid Material:**				
3-gallon: Standard	$4.75	$5.95	$6.00	$4.50
5-gallon: Standard	$5.25	$7.00	$6.85	$5.30
7-gallon: Standard	$5.75	$7.60	$7.75	$5.90
10-gallon: Standard	$6.80	$8.45	$8.90	$6.65
Dry Material:				
Minimum per acre	$4.80	$6.25	$7.60	$5.75
Price per lb	$0.05	$0.05	$0.05	$0.06

* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI), and Southeastern Idaho (SEI).
** Rates for liquid rounded to nearest $.05

Table 4. Fertilizer & Chemical Custom Application Rates Per Acre By Region, 1997.

	NI*	SWI*	SCI*	SEI*
Dry Fertilizer Application				
Broadcast	$4.45			$4.75
Spinner Truck		$7.00	$4.50	$5.00
Spinner Cart	$2.50	$2.75	$1.40	$1.35
Air Machine	$4.45	$6.35	$5.20	$5.35
Liquid Fertilizer Application				
Anhydrous	$5.75	$12.75	$16.00	
Anhydrous - plow down		$22.00		
Markout		$13.00	$14.95	
Sidedress		$9.60	$8.00	
Shank-in		$11.10	$12.00	
Chemical Application				
Ground Spray: Grain	$4.70	$7.90	$5.75	$4.75
Ground Spray: Potatoes/Sugarbeets		$8.00	$6.70	$5.25
Ground Spray & Incorporate		$10.50	$9.25	
Fumigate: Deep injection		$22.40	$31.65	$30.00
Fumigate: Bedding Row		$15.75	$15.00	$15.00
Other				
Impregnate Fertilizer - per ton		$3.20	$3.00	$3.00
Apply Sulfuric Acid - includes acid		$31.00	$22.50	
Precision Irrigation		$10.00		
Soil Test - per sample		$37.00		

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

Table 5. Water Assessments and Fertilizer Component Prices By Region, 1997.

	NI*	SWI*	SCI*	SEI*
Water Assessment/acre		$26.60	$24.60	$ 8.95
Pre-plant Nitrogen per lb** (46-0-0-0)	$ .34	$ .33	$ .31	$ .30
Post-plant Nitrogen per lb** (32-0-0-0)	$ .40	$ .34	$ .35	$ .32
Phosphate per lb** (Dry: 11-52-0)	$ .25	$ .23	$ .21	$ .23
Phosphate per lb** (Liquid: 10-34-0)	$ .43	$ .32	$ .33	$ .29
Potassium per lb** (0-0-60)	$ .15	$ .14	$ ..13	$ .14
Sulfur per lb		$ .15	$ .16	$ .13

* Northern Idaho (NI), 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 10. Price per pound will vary depending on source material. Nitrogen in 11-52-0, 10-34-0 and 20-0-0-24 was valued at cost of urea.

Table 6. Herbicide Prices By Region, 1997.

Product	Unit	NI*	SWI*	SCI*	SEI*
2,4-DB	qt	$9.25	$9.30		
2,4-D Amine (4lb)	qt	$3.80	$3.35	$3.20	$3.30
2,4-D Ester (LV4)	qt	$4.65	$3.85	4.05$	$4.00
2,4-D Ester (LV6)	qt	$6.50		4.95	$5.30
Accent	oz		$30.00	$32.30	$31.95
Ally	oz	$25.85	$29.60		$23.75
Assert	qt	$36.55	$31.65	$32.80	$32.75
Atrazine 4L	qt	$4.35	$3.75	$3.60	$3.50
Atrazine 90 DF	lb	$3.40	$3.35		$3.50
Avenge	qt	$13.25	$12.15	$12.20	$12.50
Balan	lb	$11.95	$9.85		
Banvel 4E	qt	$25.15	$23.10	$24.00	$23.80
Banvel SGF	qt	$12.25	$10.60	$10.15	$11.85
Basagran	qt	$21.15	$18.65	$18.55	$20.15
Betamix	qt		$26.50	$24.40	$
Betamix Progress	qt			$29.85	
Bladex 4L	qt		$7.65	$7.55	
Bronate (2lb)	qt	$13.70	$12.40	$12.15	$13.00
Buctril (2lb)	qt	$15.15	$14.10	$14.05	$15.15
Curtail	qt	$11.15	$10.20	$10.30	$10.40
Curtail M	qt	$11.70	$10.35	$10.85	
Dacthal (4lb)	lb	$9.30	$6.50		
Diquat	qt	$22.75	$20.05	$$22.05	$22.50
Direx (4lb)	qt	$5.30	$5.15		
Dual 8E	qt	$20.25	$18.15	$18.25	$18.75
Eptam 7E	qt	$9.15	$8.15	$7.85	$8.10
Eradicane 6.7E	qt	$7.45	$7.15	$7.05	$
Express	oz	$19.85	$17.95	$17.35	$18.75
Far-Go 10G	lb	$1.00		$1.00	$.95
Far-Go L	qt	$11.10	$10.70	$10.55	$10.90
Glean	oz	$18.15	$15.30		$17.00
Goal	qt	$26.10	$19.50	$20.00	
Harmony Extra	oz	$15.55	$14.00	$14.15	$14.65
Hoelon 3EC	qt	$17.75	$16.65	$16.45	$18.05
Karmex	lb		$4.60	$4.95	$4.95
Landmaster BW	qt	$6.70	$5.65	$5.85	$6.00
Lasso	qt	$6.30	$6.75	$6.70	$6.90
Matrix	oz		$16.90	$16.75	$17.85

Table 6. Herbicide Prices By Region, 1997, (cont.)

Product	Unit	NI*	SWI*	SCI*	SEI*
MCPA 2 lb Sodium Salt	qt	$2.90	$4.65	$3.65	$3.05
MCPA-Amine	qt	$4.70	$3.75	$5.50	$4.00
MCPA-Ester	qt	$5.25	$4.40	$5.00	$4.50
MCPb	qt	$10.05			
MH-30	lb		$4.65	$5.65	$5.40
Nortron 4SC	qt		$44.65	$45.90	
Nortron 1.5EC	qt		$48.75		
Oust	oz	$14.95			
Poast	qt	$26.50	$23.05	$22.15	$24.00
Poast Plus	qt	$14.85	$13.60	$13.60	$14.40
Princep	lb	$5.40	$4.00		
Prowl 3.3	qt	$8.45	$7.30	$7.15	$8.00
Pursuit	oz	$19.75	$15.55	$11.45	$??
Pyramin DF	lb		$14.50		
Ro-Neet	qt		$14.60	$13.65	
Roundup Ultra	qt	$13.90	$13.60	$13.10	$12.75
Sencor DF (Lexone)	lb	$28.75	$25.25	$23.40	$27.50
Sencor 4L (Lexone)	qt	$37.55	$35.10	$32.45	$34.00
Sinbar 80W	lb	$32.00	$26.05		
Sonalan	qt	$9.85	$8.40	$8.70	
Stinger	qt	$134.95	$123.35	$128.60	$130.00
Telar	oz	$27.80			
Tordon	qt	$24.10	$21.70	$23.80	$23.55
Treflan 4 Ec	qt	$8.00	$6.25	$6.10	$8.95
Treflan MTF	qt	$9.30	$6.10	$6.85	$8.95
Velpar L	qt	$17.80	$15.60	$15.80	$17.00
Weedmaster	qt	$8.95	$7.85		$6.40
Weedone 638	qt	$6.85	$6.20	$6.35	

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

Table 7. Fungicide Prices By Region, 1997.

Product	Unit	NI*	SWI*	SCI*	SEI*
Acrobat MZ	lb		$11.20	$13.65	$12.00
Bayleton	lb	$66.20	$59.80	$66.25	
Benlate 50W	lb	$20.10	$19.15	$20.50	
Bravo 720	qt	$15.90	$14.35	$14.05	$14.30
Bravo Ultrex	lb		$7.50	$7.60	$7.95
Bravo Weather Stik	lb		$14.05	$15.50	$15.05
Captan 5%	lb	$0.55			$.55
Champ	qt		$7.35	$9.00	$7.00
Curzate M8	lb		$8.45	$8.50	$9.15
Dithane DF	lb			$3.60	$3.65
Dithane F45	qt		$4.45	$5.10	$4.90
Kocide DF	lb		$2.50	$2.70	2.50
Kocide LF	qt		$3.60	$4.20	$3.75
Maneb Plus Zink F4	lb		$3.85		
Mancozeb 8%	lb		$.65		$.70
Mertect DF	lb	$24.00			
Penncozeb 85	lb		$3.20		
Ridomil MZ72	lb		$11.75	$11.15	$11.00
Ridomil/Bravo 81W	lb		$16.00	$16.40	$16.00
Ridomil/Copper 70W	lb		$13.75	$13.15	$12.00
Rovral	qt	$46.30	$43.00	$44.50	
Tattoo C	qt		$29.35	$32.40	$29.38
Terranil	qt	$14.10	$13.30	$13.25	
Tilt	qt	$97.65	$92.90	$104.85	$99.40
Tops 2.5	lb			$1.65	$1.70
Tops 5	lb			$3.30	$3.20
Tops MZ	lb			$2.00	$2.10
Topsin M 5G	lb		$1.50		
FUMIGANTS: Price per qt..					
Metam Sodium	qt		$.75		
Telone II	qt		$2.75	$2.40	$2.45
Telone C17	qt		$3.55		$
Vapam	qt		$1.00	$.75	$.90
Vapam 32%	qt		$0.95	$.85	$.75

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

Table 8. Insecticide & Nematicide Prices By Region, 1997.

Product	Unit	NI*	SWI*	SCI*	SEI*
Admire	qt		$155.00	$150.00	$146.25
Ambush 2E	qt		$30.35	$29.75	$31.38
Ammo	qt		$67.55	$65.50	
Asana XL	qt	$43.60	$35.95	$39.45	$39.95
Capture	qt	$151.55	$124.40		$137.50
Comite	qt		$19.55		
Counter 20CR	lb		$2.70	$2.65	
Counter 15G	lb		$2.20	$1.90	
Cygon 400 (Dimethoate)	qt	$9.75	$8.70	$10.00	$9.15
Dibrom	qt		$18.10		
Di-Syston L 8E	qt	$21.30	$17.95	$18.70	$19.00
Di-Syston 15G	lb	$2.00		$1.65	
Dyfonate 4E	qt		$13.55	$12.50	$13.50
Dyfonate 10G			$2.05		
Dyfonate 15G	lb		$1.80	$	$2.14
Furadan 4F	qt		$17.85	$18.80	$18.90
Guthion 50W	lb	$8.40	$8.25		$8.75
Imidan 70WP	lb	$6.95	$6.00		$6.50
Lorsban 4E	qt	$14.20	$12.60	$13.25	$12.45
Lorsban 15G	lb		$1.95	$1.90	
Malathion (5 lb)	qt		$6.15	$6.25	
Malathion (8 lb)	qt		$8.25		
Malathion 4% powder	lb		$1.75		
Malathion 5E (5%L)	qt		$5.55		
Malathion 6%	lb			$.95	
Malathion 57EC	qt	$6.35	$5.90	$6.50	
Metasystox R	qt		$15.30		
Mocap 10G	lb		$1.50	$1.35	$1.40
Mocap L 6EC	qt		$16.50	$15.75	$17.50
Monitor 4	qt		$19.65	$19.50	$20.25
MSR 2lb	qt		$17.00		
Orthene			$11.35		
Parathion 4EC	qt	$8.50	$6.30		$7.75
Parathion 8	qt	$13.75			
Methyl Parathion	qt	$9.80			
Penncap-M	qt	$8.00	$6.60		
Phorate 20G	lb				$1.75
Pounce 3.2EC	qt	$49.40	$46.80	$47.40	$49.25
Provado			$111.10	$121.90	$116.25
Reldan 3%	lb	$2.55	$2.45	$2.35	$2.35
Reldan L	qt	$51.15	$51.25	$56.35	$56.25

Table 8. Insecticide & Nematicide Prices By Region, 1997, (cont.)

Product	Unit	NI*	SWI*	SCI*	SEI*
Sevin Carb	qt	$7.20			
Sevin XLR Plus	qt	$7.80	$7.00	$7.20	$7.15
Supracide	qt		$12.60		
Temik 15G (L-n-L)	lb		$3.40	$3.35	$3.75
Thimet 20G (L-n-L)	lb	$2.15	$2.05	$2.00	$2.05
Thiodan 3EC	qt	$11.00	$9.70	$10.10	$10.70
Thiodan 50WP	lb		$6.60	$9.45	

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

Table 9. Stickers/Spreaders Prices By Region, 1997

Product	Unit	NI*	SWI*	SCI*	SEI*
Ad-met	qt		$4.50		
Ad-here	qt		$5.75		
BreakThru	qt			$28.95	
Buffercide	qt		$2.15	$	
Cayuse	qt				$4.00
Excel 90	qt			$5.25	
ID 90	qt		$3.20		
Indicate 5	qt		$8.00		
Mor-Act	qt		$1.55		
NuFilm 17	qt				$6.90
Ploc Spread (Crop Oil)	qt		$2.90		$3.00
Preference	qt			$2.95	$2.90
Procoat	qt		$6.90		
R-11	qt		$3.80		
X-77	qt				$4.25

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

Table 10. Fertilizer Prices By Region, 1997.

Product	NI*	SWI*	SCI*	SEI*
Nitrogen, Dry: Price per ton				
Ammonium Nitrate (34-0-0-0)	$250	$250	$242	$230
Ammonium Sulfate (20-0-0-24)	$190	$184	$171	$179
Urea (46-0-0-0)	$292	$307	$282	$280
26-0-0-6	$250	$225		
Anhydrous Ammonia (82%)	$491	$418	$349	
Aqua Ammonia (21%)		$130		$165
Solution 32 (32-0-0-0)		$218	$225	$207
Thio Sul (12-0-0-26)		$200	$182	$161
Nitrogen, Liquid: Price per gallon				
Aqua Ammonia (21%)	$0.44	$.47		
Solution 32 (32-0-0-0)	$1.46	$1.24	$1.24	
Thio Sul (12-0-0-26)	$1.31	$1.13	$1.20	
Phosphate, Dry: Price per ton				
16-20-0	$256	$220	$225	$207
11-52-0	$354	$308	$292	$308
10-34-0		$285	$283	$260
3-30-0-4		$265		
Phosphate, Liquid: Price per gallon				
10-34-0	$2.11	$1.83		
Potash: Price per ton				
Muriate of Potash (0-0-60-0)	$176	$170	$162	$173
Sulfate of Potash (0-0-50-17)		$298	$275	$250
Liquid Potash		$137	$76	55
Trace: Price per lb. of element				
Zinc	$1.08	$1.15	$1.40	$1.14
Manganese	$0.84	$2.55	$1.45	$2.86
Boron	$2.74	$4.30	$3.80	$4.28
Copper	$1.15	$4.70	$4.80	$4.00
Iron	$1.55	$1.60	$	
Sulfur		$0.15	$.16	$.13
Sulfur Dust		$.80		
Gypsum	$0.08	$0.03		

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

Table 11. Seed Prices By Region, 1997.

	Unit	NI*	SWI*	SCI*	SEI*
Alfalfa (private)	lb	$ 2.90	$2.25	$2.60	$2.60
Alfalfa (public)	lb	$ 2.00	$1.75	$1.85	$1.60
Barley: Feed	lb	$ 0.16	$ 0.12	$ 0.14	$ 0.14
Barley: Malting (private)	lb			$ 0.16	$ 0.16
Dry Beans	lb		$ 0.38	$ 0.35	
Canola	lb	$ 2.32			$ 2.40
Clover:Red	lb			$1.60	
Clover: Ladino	lb				
Field Corn	lb			$1.55	
Silage Corn	lb			$1.55	
Blue Grass (common)	lb	$ 1.15			
Blue Grass (proprietary)	lb	$ 2.30			
Orchard Grass	lb	$ 1.05		$1.75	
Timothy Grass	lb	$ 0.90			
Lentils	lb	$ 0.21			
Oats	lb	$ 0.15	$ 0.14	$ 0.15	$ 0.15
Dry Peas	lb	$ 0.19		$ 0.22	$ 0.22
Rapeseed Seed	lb	$ 0.20			
Sugarbeet Pelleted Seed	unit		$	$	$
1/ Potatoes: Chipping G-4	cwt				$ 8.50
1/ Potatoes: R. Burbank G-3	cwt		$ 7.00	$ 6.50	$ 5.50
1/ Potatoes: R. Burbank G-2	cwt				$ 6.95
1/ Potatoes: Shepody G-4	cwt		$10.00	$ 9.50	$ 8.50
1/ Potatoes: Shepody G-3	cwt		$11.05	$10.55	$ 9.55
Wheat: Hard Red Spring	lb	$ 0.19		$ 0.18	$ 0.15
Wheat: Hard Red Winter	lb				$ 0.15
Wheat: Soft White Spring	lb	$ 0.16	$ 0.14	$ 0.14	$ 0.14
Wheat: Soft White Winter	lb	$ 0.16	$ 0.13	$ 0.14	$ 0.13

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

1/ Seed potato prices include a base price plus transportation. Transportation and handling costs for SWI, SCI, and SEI are $3.00, $2.50, and $1.50 respectively.

Table 12. Insurance Rates Per $100 of Crop Value By Region, 1997.

	NI*	SWI*	SCI*	SEI*
Alfalfa Seed		$ 4.25	$ 4.50	
Feed Barley		$ 2.25	$ 4.00	$ 3.90
Dryland Barley	$ 1.78		$ 4.10	$ 3.90
Malting Barley			$ 4.00	$ 3.90
Field Corn		$ 1.05	$ 3.35	
Sweet Corn			$ 3.00	
Dry Beans		$ 2.50	$ 3.00	
Lentils	$ 3.50			
Oats	$ 1.00			
Onions		$ 2.10		
Green Peas			$ 5.00	
Pea Seed	$ 3.25		$ 5.00	$ 4.50
Commercial Potatoes		$ 1.50	$ 2.00	$ 2.00
Seed Potatoes				$ 2.50
Sugarbeets		$ 2.00	$ 3.50	$ 4.00
Wheat		$ 1.50	$ 2.00	$ 2.00
Dryland Wheat	$ 1.00		$ 4.10	$ 2.00

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

CROP AND LIVESTOCK COSTS AND RETURNS ESTIMATES ORDER FORM

On the following page is a list of costs and returns (CAR) estimates available through the University of Idaho Department of Agricultural Economics and Rural Sociology. These same CAR estimates are also available on a diskette that can be used with the Enterprise Budget Worksheet Program. CAR estimates are also available at no charge on the Agricultural Economics Department homepage in PDF format. The URL is: http:\\www.uidaho.edu/ag/agecon

To order: Check the appropriate box next to the items desired, or circle the publication number on the following page and mail this order form and your check to:

Bob Smathers
Department of Agricultural Economics & Rural Sociology
University of Idaho
Moscow, ID 83844-2334

Make check payable to: Bursar, University of Idaho. Price includes postage.
*Idaho residents add 5% for sales tax.

+-+
+-+ District I Crop CAR Estimates - Northern Idaho: 18 budgets $9.00

+-+
+-+ District II Crop CAR Estimates - Southwestern Idaho: 18 budgets $10.00

+-+
+-+ District III Crop CAR Estimates - Southcentral Idaho: 27 budgets $13.00

+-+
+-+ District IV Crop CAR Estimates - Southeastern Idaho: 16 budgets $9.00
(District Crop Budgets are sent in a report cover with fasteners)

+-+
+-+ Livestock CAR Estimates: 20 budgets *(Includes 3-ring binder)* $14.00

+-+
+-+ Enterprise Budget Worksheet Computer Program $25.00

Data Disk: $5.00 each Indicated size of disks: ___ 5-1/4" or ___ 3-1/2"

+-+
+-+ a. District I Crops
+-+
+-+ b. District II Crops
+-+
+-+ c. District III Crops

+-+
+-+ d. District IV Crops
+-+
+-+ e. Livestock

+-+
+-+ Crop and Livestock CAR Estimates Notebook $50.00
(Includes 3-ring binder and all crop & livestock CAR Estimates)

+-+
+-+ Crop and Livestock CAR Estimates Notebook + Enterprise Budget Worksheet Program and Data Disks $80.00

If individual CAR Estimates are desired instead, please indicate their publications number below. Individual CAR Estimates are priced at 40 cents each.

EBB_____	EBB_____	EBB_____	EBB_____	EBB_____	EBB_____	EBB_____
EBB_____	EBB_____	EBB_____	EBB_____	EBB_____	EBB_____	EBB_____
EBB_____	EBB_____	EBB_____	EBB_____	EBB_____	EBB_____	EBB_____

Name: _____ Institution: _____

Mailing Address: Phone Number: _____

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Publications

Crop CAR Estimates (1997)

NORTHERN IDAHO - DISTRICT I

EBB1-GB-97	Garbonzo Beans
EBB1-SC-9	Spring Canola
EBB1-Le-97	Lentils
EBB1-SP-97	Spring Peas
EBB1-WR-97	Winter Rapeseed
EBB1-BSI-97	Bluegrass Seed: Irrigated
EBB1-BEI-97	Bluegrass Seed Establishment: Irrigated
EBB1-BS-97	Bluegrass Seed
EBB1-BSE-97	Bluegrass Seed Establishment
EBB1-TS-97	Timothy Grass Seed
EBB1-TSE-97	Timothy Grass Seed Establishment
EBB1-FB-97	Feed Barley
EBB1-Oa-97	Oats
EBB1-SWW-97	Soft White Winter Wheat
EBB1-AH-97	Alfalfa Hay Production
EBB1-AE-97	Alfalfa Hay Establishment
EBB1-GH-97	Grass Hay Production
EBB1-GHE-97	Grass Hay Establishment

SOUTHWESTERN IDAHO - DISTRICT II

EBB2-DB-97	Commercial Dry Beans
EBB2-CSi-97	Corn Silage
EBB2-FC-97	Field Corn
EBB2-On-97	Onions
EBB2-Po1-97	Russet Burbank Comm. Potatoes: No Storage
EBB2-Po2-97	Shepody Commercial Potatoes: No Storage
EBB2-Su-97	Sugarbeets
EBB2-Mi-97	Mint
EBB2-MiE-97	Mint Establishment
EBB2-AS-97	Alfalfa Seed
EBB2-FB-97	Feed Barley
EBB2-SW-97	Spring Wheat
EBB2-WW-97	Winter Wheat
EBB2-AH-97	Alfalfa Hay Production
EBB2-AE1-97	Alfalfa Hay Establishment
EBB2-AE2-97	Alfalfa Establishment w/Oats
EBB2-Pa-97	Pasture
EBB2-PaE-97	Pasture Establishment

SOUTHCENTRAL IDAHO - DISTRICT III

EBB3-DB-97	Commercial Dry Beans
EBB3-CS-97	Corn Silage
EBB3-FC-97	Field Corn
EBB3-SC-97	Sweet Corn
EBB3-PS-97	Dry Pea Seed
EBB3-Po1-97	Russet Burbank Comm. Potatoes: No Storage
EBB3-Po2-97	R. Burbank Comm. Potatoes: On-Farm Storage
EBB3-Su-97	Sugarbeets
EBB3-AS-97	Alfalfa Seed
EBB3-BS-97	Blue Grass Seed
EBB3-BSE-97	Blue Grass Seed Establishment
EBB3-FB-97	Feed Barley
EBB3-MB-97	Malting Barley
EBB3-HRS-97	Hard Red Spring Wheat
EBB3-SWS-97	Soft White Spring Wheat
EBB3-SWW-97	Soft White Winter Wheat
EBB3-AH-97	Alfalfa Hay Production
EBB3-AE1-97	Alfalfa Hay Establishment w/Peas
EBB3-AE2-97	Alfalfa Hay Est. following Winter Wheat

Blaine & Lincoln Counties

EBB5-MB-97	Malting Barley
EBB5-SW-97	Spring Wheat
EBB5-AH-97	Alfalfa Hay Production
EBB5-AE-97	Alfalfa Hay Establishment

Lemhi, Custer & Butte Counties

EBB6-FB-97	Feed Barley
EBB6-AH-97	Alfalfa Hay Production
EBB6-AE1-97	Alfalfa Hay Establishment w/Barley
EBB6-AE2-97	Alfalfa Hay Establishment w/Oats

SOUTHEASTERN IDAHO - DISTRICT IV

EBB4-Po1-97	Russet Burbank Comm. Potatoes: No Storage
EBB4-Po2-97	R. Burbank Comm. Potatoes: On-Farm Storage
EBB4-Po3-97	Chipping Potatoes: On-Farm Storage
EBB4-Po4-97	G-3 Russet Burbank Seed Potatoes
EBB4-Su-97	Sugarbeets
EBB4-PS-97	Dry Pea Seed
EBB4-SC-97	Spring Canola
EBB4-SCD-97	Spring Canola: Dryland
EBB4-FB-97	Feed Barley
EBB4-FBD-97	Feed Barley: Dryland
EBB4-MB-97	Malting Barley
EBB4-HRS-97	Hard Red Spring Wheat
EBB4-SWS-97	Soft White Spring Wheat
EBB4-WWD-97	Summer Fallow-Winter Wheat: Dryland
EBB4-AH-97	Alfalfa Hay Production
EBB4-AE-97	Alfalfa Hay Establishment in Grain Stubble

Livestock CAR Estimates (1996)

EBB-D1-96	Dairy Enterprise Annual Cow Budget 18,000 pound Milk Average Holstein Herd
EBB-D2-96	Dairy Enterprise Annual Cow Budget 21,000 pound Milk Average Holstein Herd
EBB-D3-96	Dairy Enterprise Annual Cow Budget 13,500 pound Milk Average Jersey Herd
EBB-DR1-96	Holstein Replacement Enterprise Budget
EBB-DR2-96	Jersey Replacement Enterprise Budget
EBB-CC1-96	Cow-Calf Summer on Private Range Winter Feeding Necessary
EBB-CC2-96	Cow-Calf Private Pasture and Public Range Winter Feeding Necessary
EBB-CC3-96	Cow-Calf Winter on Public Range
EBB-CC4-96	Cow-Calf Summer on Public Range Winter Feeding Necessary
EBB-CC5-96	Cow-Calf Summer on Public Range Winter on Harvested Feeds & Crop Aftermath
EBB-ST1-96	Stocker; Wintered to go to Grass Bought in Winter, Sold in Fall
EBB-ST2-96	Stocker; Wintered to go to Feedlot Bought in Fall, Sold in Spring
EBB-ST3-96	Stocker; No Wintering Bought in Spring, Sold in Fall
EBB-FL1-96	Idaho Cattle Feedlot Calf to Slaughter; Concentrate Ration
EBB-FL2-96	Idaho Cattle Feedlot Yearling to Slaughter; Concentrate Ration
EBB-SR1-96	Sheep-Range: Ewes on Range, Lambs on Drylot Winter Feeding Necessary
EBB-SR4-96	Sheep-Range: Ewes and Lambs on Range Wintered on Alfalfa Pasture
EBB-SF1-96	Sheep-Farm Flock: Ewes on Pasture, Lambs on Drylot
EBB-SW1-96	100 Sow Farrow to Finish Total Confinement
EBB-SW3-96	150 Sow Farrow to Finish Semi-Confinement, Open Front Facilities