

**1999 CROP INPUTS COST SUMMARY
FOR IDAHO**

by

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Idaho Crop Input Price Summary for 1999

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Background

The objective of this publication is to provide producers, lenders, agribusinesses, researchers and extension personnel with input price information needed to develop or modify traditional or alternative cost of production estimates. This publication contains prices for operating inputs commonly used to produce crops in Idaho. These include: herbicides, fungicides, insecticides/nematicides, fertilizers, seeds, interest rates, labor, fuel, water assessments, custom rate charges for chemical and fertilizer applications and crop insurance rates. Additional custom rates are found in University of Idaho Bulletin 729, *1998/99 Custom Rates for Idaho Agricultural Operations*.

The University of Idaho publishes costs and returns (CAR) estimates -- also referred to as enterprise budgets -- for many of the major crops grown in Idaho. These CAR estimates are revised and published every other year (odd-numbered years), typically in the late fall. Livestock CAR estimates are revised and published in even-numbered years. On pages 17 and 18 is a list of current CAR estimates, their price and how to order them. There is also information on how to obtain copies from the Internet.

Idaho costs and returns estimates are developed for four regions of the state. Not only are there different crops produced within these regions because of varying climatic and soil conditions, but the crop production practices for the same crop can vary significantly by region. The four crop regions include: 1) Northern Idaho (NI) with primary emphasis on Benewah, Boundary, Clearwater, Kootenai and Latah counties 2) Southwestern Idaho (SWI) with primary emphasis on Canyon and Elmore counties, 3) Southcentral Idaho (SCI) with primary emphasis on Jerome, Twin Falls, Cassia and Minidoka counties, and 4) Southeastern Idaho (SEI) with primary emphasis on Power, Bingham, Bonneville, Madison, Fremont and Jefferson counties.

Procedure

Cost data reported in this publication are averages for the regions. The data were collected by phone and mail surveys conducted during the summer and early fall of 1999. Sample selection was not random, nor was the sample stratified according to characteristics of the firms. The

objective of the surveys was to obtain representative price information within each geographic region, including price information from different firms operating within a region. Firms with multiple outlets in a given geographic area were sampled only once.

Five primary types of businesses were surveyed. These were 1) irrigation districts and canal companies, 2) custom applicators, 3) agricultural lenders, 4) farm chemical and fertilizer dealers and 5) seed dealers. The price for seed potatoes and the cost of treating potato seed was obtained from a survey of Idaho seed potato growers. The seed potato prices shown in Table 10 are the F.O.B price for whole seed potatoes in the seed producing area, plus the cost of transportation from the seed area to the commercial potato area of the respective regions.

General Input Costs

Input costs that don't vary consistently between regions and that don't fit one of the major input categories are found in Table 1. Interest rates and labor costs can vary as much within a region as they do between regions of the state.

Interest Rates

Most agricultural lenders use a risk rating of 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. Interest rates also vary depending on whether the rate is variable or fixed over the loan period.

Typical interest rates charged on operating and intermediate term loans are shown in Table 1. Operating loan interest rates among lenders surveyed ranged between 8.5 percent and 10.75 percent. A typical interest rate was 9.75 percent. This rate pertains to a low credit risk customer on a moderate to high loan volume. The interest rate on an operating line charged by most banks is on a "Prime plus basis." Typically the rate is 0.5 to 2.5 percent above Prime. This rate can remain variable and fluctuate with the Prime Rate but it can also be fixed for a period of time, six months for example. The Prime Rate in August at the time of the survey was 8.25 percent. By early February 2000, the Prime Rate had increased to 8.75 percent. Interest rates on intermediate loans, money borrowed from one to seven years, varied from 9.0 to 11.5 percent. A typical rate was 10.0 percent. This rate assumes a fixed rate loan for a low credit risk borrower. The interest rate on intermediate loans was typically 0.25 to 0.50 percent above the operating interest for a given borrower.

Labor

Labor charges vary according to the type of job and the skill of the laborer. The three labor categories used in the University of Idaho CAR estimates are shown in Table 1. "Other labor" pertains to unskilled, temporary labor hired to help during planting or harvesting. Irrigation labor is the hourly wage equivalent paid to move handlines and wheelines, or to manage center pivots. Machinery labor includes skilled labor to operate tractors, machinery and trucks. The labor costs shown in Table 1, are based on a 1993 survey of farmers in southern Idaho, updated to 1999 using the wage rate index found in USDA's "Agricultural Prices." The labor costs include a base wage, 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.

General Input Costs With Regional Variation

Table 2 includes fuel prices, water assessments and fertilizer component prices. These prices do vary by region. The fertilizer component prices found in Table 2 are summarized from fertilizer material prices found in Table 8. Fertilizer in the University of Idaho CAR estimates is given in pounds of element, not material. The price per pound for nitrogen (pre- and post-plant), phosphate (dry and liquid), potassium and sulfur are included in Table 2. The assumed source material is also identified.

Fuel

Fuel price varies by location. Price typically increases by 1-3 cents from Southeastern Idaho to Southcentral Idaho and increases by another 1-3 cents from Southcentral to Southwestern Idaho. Fuel prices in Northern Idaho are typically 4-8 cents higher than Southwestern Idaho. The price for gasoline shown in Table 2 is for bulk delivery un-leaded. The road-use tax is included. The price for diesel is for bulk delivery and does not included the road-use tax.

Irrigation Water Assessments

A typical water assessment charge for each region is shown in Table 2. These charges are the average of the irrigation districts and canal companies surveyed in each region. Assessments made 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 \$18.00 per acre to a high of \$33.75. The range in water assessments reported by the four water organizations in Southcentral Idaho ranged from \$18.00 to \$35.00 per acre. Water charges in Southeastern Idaho were considerably lower than the other two areas of southern Idaho, ranging from \$8.00 to \$12.50 per acre. Four water organizations were surveyed in Southeastern Idaho. The same companies in each region are surveyed each year to maintain consistency.

Fertilizer Component Prices

The component fertilizer prices, shown in Table 2, can be used to revise cost estimates where fertilizer is specified by element, not by total pounds of material. Table 8 contains the price per ton of various source materials as well as the price per pound for micronutrients. The component price will vary depending on the source material. The pre-plant nitrogen price in Table 2 is based on Urea (46-0-0), while 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 Urea (46-0-0), while liquid phosphate price is based on 10-34-0 with the nitrogen valued at the price of nitrogen in Urea. Potassium price is based on Muriate of potash (0-0-60).

Custom Rates

A custom rate charge to apply chemicals and fertilizer is found in many of the crop CAR estimates. Table 3 contains the cost charged by aerial applicators for both liquid and dry material, and the custom charges made to apply fertilizer and chemicals by various ground methods. Aerial application charges typically vary by the quantity of material applied and by type of material. The charge for applying liquid materials falls into the categories based on the application rate. While other categories exist, Table 3 shows the most common categories: 3-gallon, 5-gallon, 7-gallon, 10-gallon and 15-gallon rates. Aerial 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 acreage and more for smaller jobs. They may also charge less when fields are large and easily accessible, compared with 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. These differences are reflected in Table 3. The rates charged for ground application was obtained primarily from fertilizer and

chemical retailers who also sell the product. Table 3 also contains the costs of other types of services, including the cost per ton to impregnate fertilizer with a herbicide and the cost to apply sulfuric acid to kill potato vines.

Herbicide Costs

Table 4, found on pages 9 and 10, contains 1999 price information for herbicides by region. Dry material is priced per pound and liquid material is priced per quart. The price of liquid products was generally based on a 2-1/2 gallon container price. 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

Table 5, found on page 11, contains 1999 price information for commonly used fungicides. Dry material is priced per pound and liquid material is priced per quart. Prices for the liquid products were based on a 2-1/2 gallon container. Prices were rounded to the nearest \$.05.

Insecticides and Nematicides Prices

Insecticide and nematicide prices for 1999 are shown in Table 6 on pages 12 and 13. Dry material is priced on a per pound basis and the price of liquids is per quart, based on a 2-1/2 gallon container price. Prices were rounded to the nearest \$.05.

Sticker/Spreader Prices

Price per quart for commonly used stickers and spreaders are found in Table 7. Prices are based on a 2-1/2 gallon container price and rounded to the nearest \$.05.

Fertilizer Prices

Table 8 contains the 1999 price information on fertilizers. The prices for the macronutrients are per ton or per gallon. The formulation of the various materials is also shown. Prices for micronutrients (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 are likely subtle but important differences in the source material that were not apparent.

Seed Prices

Table 9 on page 15 contains 1999 seed prices by region. Prices are per pound or per hundred weight. Seed prices were obtained only for those crops for which the University of Idaho presently publishes a CAR estimate. *Please keep in mind that there is a great deal of variability in seed prices, particularly among different varieties.* The seed prices in Table 9 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 10, are calculated using "typical" insurance rates and crop values for 1999. 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 10 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 18. 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 17. CAR estimates can be obtained at county Extension offices, normally for a fee, or they can be downloaded from the Internet. See page 17 for URL.

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 (ppatterson@uidaho.edu) at the Idaho Falls R & E Center, 1776 Science Center Drive, Idaho Falls, ID 83402 (529-8376) or Bob Smathers (rsmathers@uidaho.edu) at the Department of Agricultural Economics and Rural Sociology, P.O. Box 442334, University of Idaho, Moscow, ID 83843 885-6934.

Table 1. General input costs, 1999.

	<u>All Regions</u>
Operating Interest	9.75%
Intermediate Term Interest	10.00%
Machinery Labor*	\$13.30
Irrigation Labor*	\$ 8.70
Other Labor*	\$ 8.20
Cut & Treat Seed Potatoes per cwt	\$ 1.35

* 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.

Table 2. Fuel, water assessments and fertilizer component prices by region, 1999.

	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>SEI*</u>
Gasoline per gallon - bulk delivery**	\$1.50	\$1.45	\$1.44	\$1.38
Diesel per gallon - bulk delivery**	\$0.90	\$0.85	\$0.89	\$0.82
Water Assessment/acre		\$29.40	\$27.60	\$9.40
Pre-plant Nitrogen per lb*** (46-0-0-0)	\$.21	\$.21	\$.19	\$.20
Post-plant Nitrogen per lb*** (32-0-0-0)		\$.25	\$.24	\$.24
Phosphate per lb*** (Dry: 11-52-0)	\$.25	\$.24	\$.23	\$.24
Phosphate per lb*** (Liquid: 10-34-0)	\$.47	\$.37	\$.33	\$.34
Potassium per lb*** (0-0-60)	\$.17	\$.17	\$.16	\$.16
Sulfur per lb	\$.18	\$.15	\$.13	\$.14

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

** Gasoline price includes road use tax, diesel price does not.

*** Fertilizer prices are per pounds of element and are based on values found in Table 8. Prices will vary depending on source material. Nitrogen in 11-52-0 and 10-34-0 was valued at cost of N in urea.

Table 3. Custom fertilizer & chemical application rates by region, 1999.

	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>SEI*</u>
Custom Aerial Application: price/acre				
Liquid Material:**				
3-gallon: Standard	\$4.80	\$4.75	\$5.90	\$4.70
5-gallon: Standard	\$5.30	\$6.50	\$6.10	\$5.20
7-gallon: Standard	\$5.85	\$8.00	\$7.20	\$5.90
10-gallon: Standard	\$6.80	\$8.65	\$8.55	\$6.65
15-gallon: Standard		\$12.00		
Dry Material:				
Minimum per acre	\$4.75	\$7.40	\$6.60	\$6.00
Price per lb	\$0.05	\$0.05	\$0.05	\$0.06
Dry Fertilizer Application: price/acre				
Broadcast	\$4.65	\$6.50	\$5.50	\$5.25
Spinner Truck		\$6.50	\$4.25	\$4.55
Spinner Cart, Rental	\$3.00	\$2.75	\$1.10	\$1.20
Air Machine	\$4.90	\$6.00	\$5.20	\$5.10
Custom Fertilize/Cultivate	\$6.15			
Liquid Fertilizer Application: price/acre				
Anhydrous	\$6.10	\$11.40	\$9.00	
Markout		\$14.00	\$16.50	\$14.00
Sidedress		\$9.55	\$11.00	\$14.00
Shank-in	\$2.75	\$11.50		
Chemical Application: price per acre				
Ground Spray: Grain	\$4.65	\$7.00	\$5.40	\$4.40
Ground Spray: Potatoes/Sugarbeets		\$8.00	\$5.65	\$5.15
Ground Spray & Incorporate		\$8.90	\$14.00	\$14.00
Fumigate: Deep injection		\$25.00	\$28.75	\$30.00
Fumigate: Bedding Row		\$16.00	\$17.00	\$15.00
Other				
Impregnate Fertilizer: per ton			\$.80	\$.90
Sulfuric Acid & Application: per acre		\$15.00	\$25.25	\$23.50

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

Table 4. Herbicide prices by region, 1999.

Product	Unit	NI*	SWI*	SCI*	SEI*
2,4-DB	qt	\$10.10	\$9.10	\$9.05	\$9.30
2,4-D Amine (4lb)	qt	\$3.90	\$3.55	\$3.20	\$3.60
2,4-D Ester (LV4)	qt	\$4.80	\$3.90	\$3.90	\$3.95
2,4-D Ester (LV6)	qt	\$7.85	\$4.80	\$5.15	\$5.65
Accent SP	oz		\$32.75	\$32.75	\$35.75
Ally	oz	\$27.80	\$29.60	\$25.00	\$26.50
Assure II	qt	\$37.15			
Assert	qt	\$37.75	\$31.95	\$32.75	\$34.15
Atrazine 4L	qt	\$4.10	\$4.15	\$3.85	\$3.90
Atrazine 90 DF	lb	\$3.50	\$3.80	\$3.25	
Avenge	qt	\$13.95	\$12.10	\$12.15	\$12.80
Balan	lb	\$9.50	\$9.80		
Banvel 4EC	qt	\$22.50	\$21.65	\$21.55	\$24.40
Banvel SGF	qt	\$11.25	\$10.00	\$10.90	\$11.45
Basagran	qt	\$20.15	\$19.00	\$18.95	\$20.35
Betamix	qt		\$25.60	\$25.35	\$26.30
Bladex 4L	qt		\$7.95	\$8.50	\$8.65
Bronate (2lb)	qt	\$12.90	\$11.50	\$11.80	\$12.55
Buctril (2lb)	qt	\$15.75	\$14.35	\$15.25	\$15.40
Casoron	lb				\$2.10
Clarity	qt	\$24.00			\$25.00
Curtail	qt	\$11.25	\$9.65	\$9.75	\$10.25
Curtail M	qt	\$12.30	\$10.45	\$10.50	\$10.75
Dacthal (4lb)	lb		\$9.75		
Diquat	qt	\$21.90	\$20.70	\$21.30	\$21.75
Direx (80DF)	lb		\$4.55		\$5.45
Direx (4lb)	qt	\$6.40	\$5.15		\$6.00
Dual 8E	qt	\$17.60	\$16.65	\$17.50	\$19.20
Eptam 7E	qt	\$9.65	\$8.10	\$7.85	\$8.75
Eradicane 6.7E	qt	\$7.85	\$7.10	\$7.50	\$8.45
Express	oz	\$19.55	\$17.20	\$18.15	\$19.55
Far-Go 10G	lb	\$1.00			\$0.95
Far-Go L	qt	\$10.85		\$10.70	\$10.85
Frontier	qt	\$31.25			
Glean	oz	\$20.10			\$19.45
Goal	qt	\$27.80			
Harmony Extra	oz	\$13.75	\$11.30	\$13.35	\$13.80
Harmony GT	oz	\$16.85			\$17.00
Hoelon 3EC	qt	\$17.45	\$16.25	\$16.30	\$17.10
Karmex 80DF	lb		\$4.60	\$5.55	\$5.65

Table 4. Herbicide prices by region, 1999. (cont.)

Product	Unit	NI*	SWI*	SCI*	SEI*
Landmaster BW	qt	\$5.85	\$5.70	\$5.75	\$9.25
Lasso	qt	\$6.20	\$5.95	\$6.45	\$6.90
Matrix	oz		\$12.35	\$13.60	\$13.60
MCPA-Amine	qt	\$5.00	\$4.20	\$4.00	\$4.05
MCPA-Ester	qt	\$5.60	\$4.25	\$4.45	\$4.65
MCPA 2 lb Sodium Salt	qt	\$2.90	\$2.45		
MH-30	lb		\$5.20	\$5.85	\$6.25
Nortron SC	qt		\$46.75	\$46.30	\$51.15
Nortron 1.5EC	qt		\$46.25		
Oust	oz	\$14.30			
Peak	oz	\$13.35			
Poast	qt	\$22.85	\$18.00	\$17.60	\$19.05
Poast Plus	qt	\$14.95	\$13.00	\$13.25	\$14.20
Princep	lb	\$4.30	\$4.00	\$4.50	\$4.50
Progress			\$29.75	\$29.15	\$36.55
Prowl 3.3	qt	\$7.15	\$6.65	\$6.80	\$7.05
Puma	qt				\$58.00
Pursuit	oz		\$10.15	\$10.25	\$12.00
Pursuit	qt	\$123.70			
Pyramin SC	qt				\$22.85
Ro-Neet	qt		\$14.60	\$14.10	\$15.90
Roundup Ultra	qt	\$11.05	\$11.85	\$10.50	\$11.60
Sencor DF	lb	\$23.15	\$20.20	\$20.15	\$20.20
Sencor 4L	qt		\$25.85	\$27.85	\$27.95
Sinbar 80W	lb	\$31.10	\$26.25		\$30.70
Sonalan	qt	\$10.10	\$7.70	\$8.20	\$8.35
Sonalan HFP	qt	\$9.25			
Starane	qt				\$25.30
Stinger	qt	\$135.10	\$124.80	\$123.35	\$129.85
Tiller	qt	\$26.00			
Tordon	qt	\$24.55	\$23.45		\$23.80
Treflan 4 Ec	qt	\$6.10	\$7.00	\$6.10	\$7.90
Treflan MTF	qt	\$9.80	\$6.60	\$6.45	
Velpar L	qt	\$15.10	\$14.95	\$15.00	\$16.15
Weedmaster	qt	\$8.45	\$7.75	\$8.65	\$7.80
Weedone 638	qt	\$6.50	\$5.95	\$6.10	\$6.65

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

Table 5. Fungicide prices by region, 1999.

<u>Product</u>	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>SEI*</u>
Acrobat MZ	lb		\$11.10	\$11.95	
Bayleton	lb	\$69.95	\$62.95		
Benlate SP	lb	\$20.50	\$17.50	\$18.50	\$17.75
Bravo 720	qt		\$13.15		\$15.00
Bravo Zn	qt				\$8.57
Bravo Ultrex	lb			\$7.15	\$7.00
Bravo Weather Stik	lb		\$11.75	\$12.80	\$13.85
Curzate 60 DF	lb			\$34.05	\$32.05
Dithane NT	lb		\$2.75	\$3.55	\$3.00
Dithane F45	qt		\$3.90	\$4.15	\$4.20
Kocide 2000	lb		\$2.90	\$3.15	\$2.85
Kocide 4.5 LF	qt		\$6.70	\$5.20	\$7.10
Manex 4F	lb		\$15.30	\$14.00	\$15.50
Manex C-8 72 WP	lb			\$16.15	
Maxim	lb				\$3.60
Penncozeb 85	lb		\$2.75		
Quadris	lb		\$296.05	\$296.50	\$307.50
Ridomil Gold EC	lb		\$10.65	\$12.40	
Ridomil/Bravo 81W	lb		\$15.85	\$15.50	\$17.00
Ridomil/Copper 70W	lb			\$13.15	\$13.50
Rovral 4L	qt	\$45.75	\$45.00	\$45.65	\$52.00
Super Tin 80WP	lb		\$33.20	\$34.25	\$34.30
Tattoo C	qt		\$32.15	\$22.55	\$22.75
Terranil 6L	qt	\$13.95		\$13.05	
Tilt	qt	\$90.35	\$85.90	\$81.10	\$91.85
Tilt Plus	oz	\$173.95			
Tops 2.5	lb			\$1.50	\$2.05
Tops 5	lb			2.30	\$2.20
Tops MZ	lb			\$1.90	\$2.10
Topsin M 4.5 WSB	lb			\$18.90	\$18.10

FUMIGANTS: Price per qt.

Metam Sodium	qt		\$0.80	\$0.85	\$0.85
Telone II	qt		\$2.95		
Telone C17	qt		\$3.65		
Vapam 32%	qt			\$0.75	\$0.75
Vapam 42%	qt		\$0.90	\$0.80	\$0.85

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

Table 6. Insecticide and nematicide prices by region, 1999.

<u>Product</u>	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>SEI*</u>
Admire	qt				\$158.75
Ambush 2E	qt		\$26.35	\$25.15	\$25.35
Ammo	qt		\$68.25	67.50	\$59.75
Asana XL	qt	\$34.90	\$33.70	\$30.30	\$33.45
Capture	qt	\$115.55	\$107.35		\$104.50
Comite	qt		\$19.50		\$23.50
Counter 20CR L-n-L	lb		\$2.60	\$2.75	\$2.80
Counter 15G L-n-L	lb		\$2.00	\$1.95	\$1.95
Cygon 400 (Dimethoate)	qt	\$10.30	\$8.40	\$8.35	\$9.75
Dibrom	qt		\$18.25	\$20.90	\$21.25
Di-Syston L 8E	qt	\$21.45	\$18.55	\$18.40	\$20.20
Di-Syston 15G	lb		\$1.80	\$1.70	\$1.70
Dyfonate 4EC	qt		\$13.05	\$13.75	\$12.50
Dyfonate 15G	lb			\$1.90	\$2.10
Furadan 4F	qt		\$17.10	\$18.25	\$18.55
Guthion 50WP	lb	\$9.50	\$8.65		\$9.70
Imidan 70WP	lb	\$7.35	\$6.15		\$6.60
Lorsban 4E	qt	\$12.25	\$11.60	\$11.95	\$12.50
Lorsban 15G	lb		\$1.85	\$1.95	\$1.90
Malathion (5 lb)	qt	\$6.85	\$6.55	\$6.55	\$6.80
Malathion 8EC	qt	\$8.35	\$7.65	\$5.75	8.00
Malathion 5 EC	qt	\$7.05	\$6.75	\$6.55	
Metasystox R	qt		\$16.10	\$15.05	\$16.55
Methyl Parathion	qt	\$10.35			
Mocap 10G	lb		\$1.40	\$1.40	\$1.40
Mocap 6EC	qt		\$16.55	\$16.00	\$18.45
Monitor 4	qt		\$21.00	\$20.65	\$21.40
Orthene			\$11.10		\$11.85
Parathion 4EC	qt				\$8.75
Penncap-M	qt	\$9.25	\$7.00		\$7.75

Table 6. Insecticide and nematicide prices by region, 1999. (cont.)

Product	Unit	NI*	SWI*	SCI*	SEI*
Phorate 20G	lb			\$1.60	\$1.75
Pounce 3.2EC	qt	\$38.80	\$46.65	\$35.65	\$43.05
Provado			\$123.90	\$125.00	\$129.55
Reldan 3%	lb	\$2.50	\$2.30	\$2.35	\$2.25
Reldan L	qt	\$55.95	\$51.25		\$56.90
Sevin 4F	qt		\$6.65	\$1.00	\$7.00
Sevin XLR	qt	\$8.40	\$6.90	\$7.00	\$7.45
Supracide	qt		\$9.35		\$5.95
Temik 15G (L-n-L)	lb		\$3.55	\$3.45	\$3.55
Thimet 20G (L-n-L)	lb	\$2.45	\$2.10	\$2.15	\$2.10
Thiodan 3EC	qt	\$9.70	\$7.65	\$8.65	\$8.60
Thiodan 50WP	lb		\$6.70		

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

Table 7. Sticker/spreader prices by region, 1999.

Product	Unit	NI*	SWI*	SCI*	SEI*
Activator 90	qt				\$4.75
Cayuse	qt		\$3.80		
Class Act	qt				\$2.00
Complex	qt				\$5.00
Crop Oil	qt				\$3.00
Excel 90	qt	\$4.40			
Hasten	qt		\$4.20		
Meth. Seed Oil	qt	\$5.15			
Mor-Act	qt	\$2.65	\$1.70		
Non-Ionic 90	qt			\$2.70	\$4.75
Preference	qt	\$3.55	\$3.25	\$3.75	\$3.25
Prime Oil	qt			\$2.50	
Quest	qt			\$4.50	
R-11	qt		\$3.60		
Spreader 90	qt				\$4.75
17% Oil	qt		\$2.10		

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

Table 8. Fertilizer prices by region, 1999.

Product	NI*	SWI*	SCI*	SEI*
Nitrogen: Price per ton				
Ammonium Nitrate (34-0-0-0)	\$174	\$206	\$199	\$165
Ammonium Sulfate (20-0-0-24)	\$160	\$152	\$140	\$152
Urea (46-0-0-0)	\$194	\$194	\$173	\$183
26-0-0-6				
Anhydrous Ammonia (82%)	\$390		\$277	\$270
Aqua Ammonia (21%)	\$117		\$114	\$172
Solution 32 (32-0-0-0)		\$155	\$154	\$151
Thio Sul (12-0-0-26)			\$152	\$136
Nitrogen, Liquid: Price per gallon				
Solution 32 (32-0-0-0)	\$1.20	\$0.90		
Thio Sul (12-0-0-26)	\$1.10	\$1.10		
Phosphate, Dry: Price per ton				
16-20-0	\$224			\$215
11-52-0	\$306	\$298	\$281	\$296
10-34-0	\$360		\$260	\$281
3-30-0-4			\$228.00	
0-13-0			\$60	
Phosphate, Liquid: Price per gallon				
10-34-0		\$1.80		
Potash: Price per ton				
Muriate of Potash (0-0-60-0)	\$207	\$200	\$195	\$188
Sulfate of Potash (0-0-50-17)		\$300	\$290	\$305
Liquid Potash			\$72	\$70
Liquid Potash: Price per gallon		\$0.25		
Trace: Price per lb.				
Zinc	\$0.21	\$0.18	\$0.20	\$
Manganese	\$	\$0.85	\$0.61	\$
Boron	\$0.41	\$.55	\$0.46	\$
Copper	\$	\$1.25	\$1.71	\$1.40
Iron	\$0.32	\$		\$0.41
Sulfur		\$0.15	\$0.13	\$0.14
Sulfur Dust		\$0.24		
Gypsum	\$0.07	\$0.03		

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

Table 9. Seed prices by region, 1999.

	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>SEI*</u>
Alfalfa (private)	lb	\$2.00	\$2.20	\$2.35	\$2.40
Alfalfa (public)	lb	\$1.25	\$	\$	\$
Barley: Feed	lb	\$0.16	\$0.13	\$0.14	\$0.14
Barley: Malting (private)	lb			\$0.16	\$0.16
Dry Beans	lb		\$0.36	\$0.36	
Canola	lb				
Clover: Red	lb				
Clover: Ladino	lb				
Field Corn	lb		\$1.60	\$1.60	
Silage Corn	lb		\$		
Garbonzo Beans	lb	\$0.35			
Blue Grass (common)	lb	\$1.50			
Blue Grass (proprietary)	lb	\$2.50			
Orchard Grass	lb	\$.75			
Timothy Grass	lb	\$3.00			
Lentils	lb	\$0.18			
Oats	lb	\$0.17			
Dry Peas	lb	\$0.15			\$0.15
Rapeseed Seed	lb	\$1.20			
Sugarbeet Pelleted Seed	unit				
^{1/} Potatoes: Chipping G-3	cwt				\$8.25
^{1/} Potatoes: R. Burbank G-3	cwt		\$8.55	\$8.05	\$7.05
^{1/} Potatoes: R. Burbank G-2	cwt				\$9.40
^{1/} Potatoes: Shepody G-3	cwt		\$11.40	\$10.90	\$9.90
Wheat: Hard Red Spring	lb	\$0.19		\$0.17	\$0.17
Wheat: Hard Red Winter	lb				\$0.15
Wheat: Soft White Spring	lb	\$0.14	\$0.14	\$0.14	\$0.14
Wheat: Soft White Winter	lb	\$0.14	\$0.14	\$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 10. Insurance rates per \$100 of crop value by region, 1999.

	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>SEI*</u>
Alfalfa Seed		\$ 4.25	\$ 4.50	
Feed Barley		\$ 2.25	\$ 4.00	\$ 3.90
Dryland Barley	\$ 1.54		\$ 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	\$ 3.34			
Oats	\$ 1.00			
Onions		\$ 2.10		
Green Peas			\$ 5.00	
Pea Seed	\$ 3.09		\$ 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
P.O. Box 442334
University of Idaho
Moscow, ID 83844-2334

Make check payable to: Bursar, University of Idaho. Price includes postage.
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- + - +
- + - + District I Crop CAR Estimates - Northern Idaho: 20 budgets\$10.00
- + - +
- + - + District II Crop CAR Estimates - Southwestern Idaho: 20 budgets\$10.00
- + - +
- + - + District III Crop CAR Estimates - Southcentral Idaho: 27 budgets\$13.00
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- + - + District IV Crop CAR Estimates - Southeastern Idaho: 16 budgets\$8.00
 (District Crop Budgets are sent in a report cover with fasteners)
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- + - + Livestock CAR Estimates: 20 budgets (Includes 3-ring binder)\$14.00
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- + - + 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 + - + d. District IV Crops
- + - + b. District II Crops + - + e. Livestock
- + - + c. District III Crops

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- + - + Crop and Livestock CAR Estimates Notebook\$55.00
 (Includes 3-ring binder and all crop & livestock CAR Estimates)
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 Budget Worksheet Program and Data Disks\$80.00

If individual CAR Estimates are desired instead, please indicate their publication number below. Individual CAR Estimates are priced at 50 cents each.

EBB_____	EBB_____	EBB_____	EBB_____	EBB_____	EBB_____	EBB_____
EBB_____	EBB_____	EBB_____	EBB_____	EBB_____	EBB_____	EBB_____
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Name: _____ Institution: _____

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Publications

Crop CAR Estimates (1997)

NORTHERN IDAHO - DISTRICT I

EBB1-GB-99	Garbonzo Beans
EBB1-SC-99	Spring Canola
EBB1-Le-99	Lentils
EBB1-SP-99	Spring Peas
EBB1-WR-99	Winter Rapeseed After Summer Fallow
EBB1-YM-99	Yellow Mustard Seed
EBB1-BSI-99	Bluegrass Seed: Irrigated
EBB1-BEI-99	Bluegrass Seed Establishment: Irrigated
EBB1-BS-99	Bluegrass Seed
EBB1-BSE-99	Bluegrass Seed Establishment
EBB1-TS-99	Timothy Grass Seed
EBB1-TSE-99	Timothy Grass Seed Establishment
EBB1-FB-99	Feed Barley
EBB1-Oa-99	Oats
EBB1-SWS-99	Soft White Spring Wheat
EBB1-SWW-99	Soft White Winter Wheat
EBB1-AH-99	Alfalfa Hay Production
EBB1-AE-99	Alfalfa Hay Establishment
EBB1-GH-99	Grass Hay Production
EBB1-GHE-99	Grass Hay Establishment

SOUTHWESTERN IDAHO - DISTRICT II

EBB2-DB-99	Commercial Dry Beans
EBB2-CSi-99	Corn Silage
EBB2-FC-99	Field Corn
EBB2-On-99	Onions
EBB2-Po1-99	Russet Burbank Comm. Potatoes: No storage
EBB2-Po2-99	Shepody Commercial Potatoes: No Storage
EBB2-Su-99	Sugarbeets
EBB2-AS-99	Alfalfa Seed
EBB2-FB-99	Feed Barley
EBB2-SW-99	Spring Wheat
EBB2-WW-99	Winter Wheat
EBB2-AH-99	Alfalfa Hay Production
EBB2-AE1-99	Alfalfa Hay Establishment
EBB2-AE2-99	Alfalfa Establishment w/Oats
EBB2-Mi-99	Mint
EBB2-MiE-99	Mint Establishment
EBB2-Pa-99	Pasture
EBB2-PaE-99	Pasture Establishment
EBB2-Fu-98	Fuji Apple Production
EBB2-RD-98	Red Delicious Apple Production

SOUTHCENTRAL IDAHO - DISTRICT III

EBB3-DB-99	Commercial Dry Beans
EBB3-CS-99	Corn Silage
EBB3-FC-99	Field Corn
EBB3-SC-99	Sweet Corn
EBB3-PS-99	Dry Pea Seed
EBB3-Po1-99	Russet Burbank Comm. Potatoes: No Storage
EBB3-Po2-99	R. Burbank Comm. Potatoes: On-Farm Storage
EBB3-Su-99	Sugarbeets
EBB3-AS-99	Alfalfa Seed
EBB3-BS-99	Blue Grass Seed
EBB3-BSE-99	Blue Grass Seed Establishment
EBB3-FB-99	Feed Barley
EBB3-MB-99	Malting Barley
EBB3-HRS-99	Hard Red Spring Wheat
EBB3-SWS-99	Soft White Spring Wheat
EBB3-SWW-99	Soft White Winter Wheat
EBB3-AH-99	Alfalfa Hay Production
EBB3-AE1-99	Alfalfa Hay Establishment w/Peas
EBB3-AE2-99	Alfalfa Hay Est. following Winter Wheat
EBB3-PA-99	Pasture Production

Blaine & Lincoln Counties

EBB5-MB-99	Malting Barley
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EBB5-SW-99	Spring Wheat
EBB5-AH-99	Alfalfa Hay Production
EBB5-AE-99	Alfalfa Hay Establishment

Lemhi, Custer & Butte Counties

EBB6-FB-99	Feed Barley
EBB6-AH-99	Alfalfa Hay Production
EBB6-AE1-99	Alfalfa Hay Establishment w/Barley
EBB6-AE2-99	Alfalfa Hay Establishment w/Oats

S SOUTHEASTERN IDAHO - DISTRICT IV

EBB4-Po1-99	Russet Burbank Comm. Potatoes: No Storage
EBB4-Po2-99	R. Burbank Comm. Potatoes: On-Farm Storage
EBB4-Po3-99	Chipping Potatoes: On-Farm Storage
EBB4-Po4-99	G-3 Russet Burbank Seed Potatoes
EBB4-Su-99	Sugarbeets
EBB4-PS-99	Dry Pea Seed
EBB4-SC-99	Spring Canola
EBB4-SCD-99	Spring Canola: Dryland
EBB4-FB-99	Feed Barley
EBB4-FBD-99	Feed Barley: Dryland
EBB4-MB-99	Malting Barley
EBB4-HRS-9	Hard Red Spring Wheat
EBB4-SWS-9	Soft White Spring Wheat
EBB4-WWD-99	Summer Fallow-Winter Wheat: Dryland
EBB4-AH-99	Alfalfa Hay Production
EBB4-AE-99	Alfalfa Hay Establishment in Grain Stubble

Livestock CAR Estimates (1998)

EBB-D1-98	Dairy Enterprise Annual Cow Budget 20,000 pound Milk Average Holstein Herd
EBB-D2-98	Dairy Enterprise Annual Cow Budget 22,000 pound Milk Average Holstein Herd
EBB-D3-98	Dairy Enterprise Annual Cow Budget 15,000 pound Milk Average Jersey Herd
EBB-DR1-98	Holstein Replacement Enterprise Budget
EBB-DR2-98	Jersey Replacement Enterprise Budget
EBB-CC1-98	Cow-Calf - 250 Cow Summer on Private Range Winter Feeding Necessary
EBB-CC2-98	Cow-Calf - 200 Cow Summer on Private Pasture and Public Range Winter Feeding Necessary
EBB-CC3-98	Cow-Calf - 500 Cow Summer on Federal Range, Winter on Federal and Private Range
EBB-CC4-98	Cow-Calf - 500 Cow Summer on Federal and State Range, Winter Feeding Necessary
EBB-CC5-98	Cow-Calf - 300 Cow Summer on Federal and State Range, Winter on Harvested Feeds & Crop Aftermath
EBB-ST1-98	Stocker; Wintered to go to Grass Bought in Winter, Sold in Fall
EBB-ST2-98	Stocker; Wintered to go to Feedlot Bought in Fall, Sold in Spring
EBB-ST3-98	Stocker; No Wintering Bought in Spring, Sold in Fall
EBB-FL1-98	Idaho Cattle Feedlot Calf to Slaughter; Concentrate Ration
EBB-FL2-98	Idaho Cattle Feedlot Yearling to Slaughter; Concentrate Ration
EBB-SR1-98	Sheep-Range: Ewes on Range, Lambs on Drylot Winter Feeding Necessary
EBB-SR4-98	Sheep-Range: Ewes and Lambs on Range Wintered on Alfalfa Pasture
EBB-SF1-98	Sheep-Farm Flock: Ewes on Pasture, Lambs on Drylot
EBB-SW1-98	100 Sow Farrow to Finish Total Confinement
EBB-SW3-98	150 Sow Farrow to Finish Semi-Confinement, Open Front Facilities