

# Idaho Crop Input Price Summary for 2012

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### Background

This publication provides price information for operating inputs commonly used in the production of crops in Idaho. This information is used to develop new or revise existing cost of production estimates for traditional and alternative crops or crop production systems. Input prices include: herbicides, fungicides, insecticides/nematicides, fertilizers, seeds, interest rates, labor, fuel, water assessments, and custom rate charges for chemical and fertilizer applications. Additional custom rates are found in recently revised University of Idaho Bulletin 729, *Custom Rates for Idaho Agricultural Operations 2010/2011*. A PDF version of this publication is available on the Internet at <http://www.cals.uidaho.edu/aers/PDF/AEES/2011/AEES110411.pdf>

The University of Idaho College of Agricultural and Life Sciences publishes costs and returns (CAR) estimates – more commonly referred to as enterprise budgets -- for many of the major crops grown in Idaho. Crop CAR estimates are revised and published every other year in odd-numbered years. Livestock CAR estimates are revised and published in even-numbered years. PDF versions of the CAR estimates can be found on the Internet at <http://www.cals.uidaho.edu/aers>. Click on **Resources** and then click on **Crops** or **Livestock**. The crop CAR estimates are also available in Excel format and as data files for the U of I's *Crop Enterprise Budget Worksheet* program. These data files are available at no charge and can be found at the same Internet site.

Idaho crop costs and returns estimates are developed for four geographic 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 and do vary significantly by region. The four crop regions include: 1) Northern Idaho (NI), with primary emphasis on Boundary, Clearwater, Idaho, Kootenai, Latah and Lewis counties; 2) Southwestern Idaho (SWI), with primary emphasis on Canyon, Elmore, Owyhee, Payette and Washington counties; 3) Southcentral Idaho (SCI), with primary emphasis on Cassia, Gooding, Jerome, Minidoka, and Twin Falls counties; and 4) Eastern Idaho (EI) with an emphasis on two areas: Bannock, Bingham and Power counties for the southern part of the region and Bonneville, Jefferson, Fremont and Madison counties for the northern portion of the region. The Southcentral region also contains crop costs and returns for subregional areas.

## **Procedure**

The data used to generate the information in this publication were collected by phone and mail surveys conducted between February and September 2011. Cost data shown in this publication are reported as averages by region, or in the case of labor and interest rates, averages for the state. 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 were obtained from a survey of Idaho seed potato growers and commercial potato growers. The seed potato prices shown in parenthesis in Table 12 are the F.O.B price for whole seed potatoes in the seed producing regions of eastern Idaho. The seed potato price shown for each region includes the F.O.B. seed price from seed potato growers plus handling and transportation costs from the seed area to the commercial potato area of the respective regions.

## **General Input Costs**

Input costs that do not vary consistently between regions and those that do not fit one of the major input categories are found on page 9 in Table 1. These include interest rates and labor costs.

### Interest Rates

Agricultural lenders use a risk-rating system to evaluate a customer's credit status. Along with loan volume, the credit score is used in determining the interest rate on a loan. Low risk, high volume borrowers are charged a lower interest rate. Interest rates also vary depending on whether the rate is variable or fixed over the loan period. The interest rate charged on an operating line by most banks is on a "Prime Rate plus basis." Traditionally, the interest rate is 0.5 to 2.5 percent above the Prime Interest Rate. However, financially sound borrowers may have a sub-prime rate. The interest rate charged on most operating lines remains variable and fluctuates with the Prime Rate, although the rate may be fixed for a specified period of time, for example, six months. The interest rate on intermediate term loans lasting one to eight years was typically 0 to 0.5 percent above the operating interest for a given borrower. An increasing number of financial institutions now use LIBOR-based interest rates for term loans (London Inter-Bank Offered Rate), rather than basing them on the prime rate.

Typical interest rates charged on operating and intermediate term loans are shown in Table 1. Operating loan interest rates at the time of the survey (July 2011) ranged between 6.0 and 8.0 percent. A typical interest rate was 6.75 percent. This rate pertains to a low credit risk customer on a moderate to high loan volume. At the time of the survey in July, 2010, the Prime Rate was 3.25 percent, the same rate as July 2010. The spread between the prime interest rate and the rate charged producers on operating lines is currently much wider than it has been in the recent past. Since July of this year, the Fed has not made any interest rate adjustments and is not likely to raise rates until late 2012. The historically low interest rate is designed to provide liquidity for financial markets and fight the recession. While interest rates over the next year will remain low by historical standards, credit availability will remain a more important issue for many borrowers, especially for highly leveraged farmers and ranchers, or for those with a severe or chronic cash flow problem because of low commodity prices. Credit availability and cash flow issues are not problems for most crop farms in Idaho.

The interest rate charged by agricultural lenders on intermediate loans, which is typically from one to seven years, varied from 6.00 to 8.5 percent in the July survey. A typical fixed rate for a low credit risk borrower was 7.0 percent. Financing with a lower interest rate is often available through machinery and equipment dealerships, however.

### Labor

Labor charges used in the CAR estimates vary according to the type of job and the skill of the laborer. Four labor categories are used in the University of Idaho CAR estimates (Table 1). General farm labor pertains to unskilled, seasonal labor hired primarily to help during planting and harvesting. Irrigation labor is the hourly wage equivalent paid to move set-move irrigation systems (handlines and wheellines), or to manage center pivots. Labor for irrigation system repairs is included in the irrigation repair costs. Truck driver labor is used for onions, potatoes and subarbeets where drivers are hired during harvest. Equipment operator labor includes semi-skilled laborers that operate tractors and other machinery. Compared to 2010, base wage rates increased by approximately 2.5% or \$.20 to \$.35 per hour, varying by the type of labor. Labor costs shown in Table 1 include a base wage plus the employer's payroll tax contribution and other benefits and overhead typically paid by the employer, converted to an hourly basis. The value of these payroll taxes and benefits varies by the class of labor and is expressed as a percent of the base wage. The payroll tax/benefits rate is 15 percent for other labor and truck drivers, and 30 percent for irrigation labor and for machinery labor. The tax/benefit percentages are from a 2008 and earlier labor surveys. The base wage rate for 2011 is shown in parenthesis.

## Power Costs

The power cost per acre-inch of water applied by different irrigation systems at different lifts (0, 100, 200 and 300 feet) are shown in Table 2. The costs for all irrigation systems are based on a 160-acre field configuration and Idaho Power's Agricultural Irrigation Schedule 24 for 2011. The standard cost per acre-inch of water applied used in most irrigated crop costs and returns estimates published by the University of Idaho is based on the center pivot with a corner system and zero lift. The 2011 CAR estimates use \$1.45 per acre-inch for power costs, a decrease of 3.3 percent over the \$1.50 per acre-inch cost in 2010. Idaho Power's Energy Charge base rate per kilowatt-hour was 4.4822 cents in 2010 and 4.5485 cents in 2011, an increase of 1.5%. But the effective power rate (the Energy Charge Base Rate plus the Power Cost Adjustment) decreased 4.9 percent, going from 4.7936 cents per kWh to 4.5599 cents per kWh. The Power Cost Adjustment factor in 2010 was 0.3144 cents and 0.0114 cents in 2011, a decrease of 96%. The demand charge per kW and the monthly service charge both increased by 1.4% from 2010 to 2011, from \$5.57 to \$5.65 per kW and from \$17.92 to \$18.18 for the monthly service charge. The cost per acre-inch of water applied reflects the net impact of all these rate changes.

## **General Input Costs with Regional Variation**

Table 3 on page 10 includes fuel prices by region and Table 4 summarizes the per acre water assessments paid by surface water users in southern Idaho. Table 5 on page 11 summarizes the commonly used custom rate charges by region.

## Fuel

For the third year fuel prices were based on the average of multiple samples during the year, rather than the previous practice of sampling only once. Prices in Table 3 are the simple average of prices from four time periods: February, April, June, and August. Prices were rounded to the nearest \$.05. Fuel prices (both diesel and gasoline) were lowest in February and highest in June in all locations. Fuel price varies by location within the state. In general, the price of gasoline and diesel typically increases from east to west across southern Idaho. Compared to eastern Idaho, the annual average price of gas was five cents higher in both western Idaho and in the Magic Valley, and ten cents higher in northern Idaho. Diesel prices in western Idaho averaged fifteen cents higher than eastern Idaho, while the average price in the Magic Valley was ten cents higher. At the time of the August survey, fuel prices in Idaho were trending down. Compared to 2010, unleaded gasoline prices in 2011 were \$0.50 to \$0.55 per gallon higher in southern Idaho and \$0.60 higher in northern Idaho. Compared to 2010, diesel prices in 2011 were \$0.80 per gallon higher in eastern Idaho, and \$0.85 per gallon higher in the Magic Valley, western Idaho and northern Idaho.

### Irrigation Water Assessments

Table 4 on page 10 summarizes the water assessments for southern Idaho. These water assessment charges are the simple average of the values reported by irrigation districts and canal companies contacted in each region. The same irrigation districts/canal companies are surveyed each year to maintain a consistent base for price change comparisons. Assessments made on a per share of water basis are converted to a per acre charge. All canal companies and irrigation districts surveyed deliver surface water to the farm in an open ditch.

The average water assessment reported by the seven water organizations surveyed in southwestern Idaho increased by \$.30 to \$45.85 per acre from 2010 to 2011, ranging from a low of \$18.00 per acre to a high of \$66.00. The average water assessment charge reported by the five water organizations surveyed in southcentral Idaho decreased by \$0.15 per acre from \$41.45 to \$41.30, ranging from \$22.00 to \$65.00 per acre. Water charges in eastern Idaho are considerably lower than for the other two areas of southern Idaho, especially in the upper Snake River. The average water assessment reported by the six water organizations surveyed in eastern Idaho increased by \$1.25 from \$13.35 to \$14.60 per acre, ranging from \$9.60 to \$30.00 per acre. The five water organizations in the north end of the region charged an average \$11.55 per acre, a \$0.50 increase over 2010, while the one water organization in the south end of the region charged \$30 per acre, or \$5 more than in 2010.

### Custom Rates

Table 5 on page 11 contains the rate charged by aerial applicators for both liquid and dry material applications. Table 5 also lists the custom charges made to apply fertilizer and chemical by various ground methods. Aerial application charges typically vary by the quantity and type of material applied. The charge for applying liquid materials falls into the categories based on the application rate. While other categories exist, Table 5 shows the most common categories: 3-gallon, 5-gallon, 7- or 7.5 gallon, and 10-gallon. 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 aerial applicators have a sliding scale, charging less per acre for a large job and more per acre for smaller jobs. They may also charge less when fields are large and easily accessible, compared with small or irregularly 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 regional differences are reflected in Table 5. Table 5 also contains costs of other types of services, including the custom application of sulfuric acid to kill potato vines. A complete list of custom rates

can be found in Extension Bulletin 729, Custom Rates of Idaho Agricultural Operations 2010-2011.

A PDF can be found at <http://info.ag.uidaho.edu/pdf/BUL/BUL0729.pdf>

### Fertilizer Component Prices

The fertilizer component prices found in Table 6 are derived from fertilizer product prices listed in Table 13. Fertilizers in the University of Idaho CAR estimates are typically listed in pounds of element (N, P<sub>2</sub>O<sub>5</sub>, K<sub>2</sub>O, etc.), not product (e.g. 11-52-0). The price per pound for nitrogen (dry and liquid), phosphate (dry and liquid), potassium and sulfur are included in Table 6. The source material is identified in the last footnote below the table.

Table 13 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 dry nitrogen price in Table 6 is based on the price of nitrogen in Urea (46-0-0) and is used for most pre-plant nitrogen applications in the University of Idaho's CAR estimates, while the liquid nitrogen price is based on the price of nitrogen in Solution 32 (32-0-0). The liquid nitrogen price is typically used on post-planting fertilizer applications. Dry phosphate price is based on the price of phosphate in 11-52-0 with the nitrogen in 11-52-0 valued at the price of nitrogen in Urea. The liquid phosphate price is based on the price of phosphate in 10-34-0 with the nitrogen valued at the price of nitrogen in Solution 32. Potassium's price is based on potassium chloride (Muriate of potash 0-0-60) and sulfur's price is based on elemental sulfur.

Fertilizer prices were up across the board. Percentage price increases were the highest for phosphate, up 68% or \$0.23 per pound in southern Idaho. Dry nitrogen prices increased by 30% in southern Idaho, or \$0.13 per pound. In southern Idaho, prices averaged \$0.47 in 2010 and \$0.61 in 2011. The price for liquid nitrogen was up by 46%, or \$0.22 per pound in southern Idaho. In northern Idaho, the price per pound for anhydrous nitrogen increased by 57%, from \$0.35 in 2010 to \$0.55 in 2011. Potassium prices increased 19%, or \$0.08 per lb over last year's prices in southern Idaho, and 24% or \$0.11 in northern Idaho. Sulfur prices increased 29%, from \$0.17 to \$0.22 per pound.

### **Herbicide Prices**

Table 7, found on pages 13-16, gives herbicide price information for just two regions of Idaho, northern Idaho and southern Idaho. Herbicide prices for all three regions of southern Idaho are combined for the second year in a row. Dry material is priced per pound or ounce and liquid material is priced per gallon or fluid ounce. There are a few products priced per case, with an equivalent price per ounce. The price of liquid products is generally based on a 2-1/2 gallon container price. Prices are rounded to the nearest \$0.05 for most products or to the nearest dollar on products costing over

\$100 per unit. 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.

### **Sticker/Spreader Prices**

The price per gallon for commonly used stickers and spreaders are found on page 17 in Table 8. Prices are rounded to the nearest \$.05 per gallon.

### **Fungicide Prices**

Table 9, found on page 18, contains fungicide price information for two regions of Idaho, northern Idaho and southern Idaho, again combining prices for all of southern Idaho into one region. Dry material is priced per pound or per ounce and liquid material is priced per gallon or per fluid ounce. Prices were rounded to the nearest \$.05 or the nearest \$1 for products costing more than \$100 per unit. Fumigant prices are listed in Table 10, which is found on page 19.

### **Insecticide and Nematicide Prices**

Insecticide and nematicide prices are shown in Table 11 on pages 19 and 20 for two regions of Idaho, northern and southern. Dry material is priced on a per pound or ounce basis, while the price of liquids is on a per gallon basis. Prices were rounded to the nearest \$0.05 or the nearest dollar for products costing more than \$100 per unit.

### **Seed Prices**

Table 12 on pages 21-23 contains seed prices by region. Prices are given in the common units for that commodity and include pound, hundredweight, unit (100,000 seeds) in the case of sugarbeet seed, and pail (500,000 seeds) for onion seed. In general, seed prices were obtained only for those crops for which the University of Idaho presently publishes a costs and returns estimate. *Keep in mind that there is a great deal of variability in seed prices for some crops, particularly among different varieties.* The seed prices in Table 12 should be considered representative, but they are by no means comprehensive. Seed prices in Table 12 generally include a seed treatment. Potatoes are an exception with the price to cut and treat potato seed shown separately. Seed treatment on sugarbeets is also listed separately.

### **Fertilizer Prices**

Table 13 on pages 24-25 contains price information for fertilizer. Prices for the macronutrients are per ton. Formulation for various materials is also shown. Prices for micronutrients (trace elements) are given both per ton and per pound of element. Caution is advised on trace element prices. The

price variation is extreme and there are likely subtle but important differences in the source material that were not picked up by the survey.

### **Costs and Returns Estimates**

University of Idaho crop costs and returns estimates are no longer printed but they can be downloaded from the Department of Agricultural Economics and Rural Sociology website at the following URL: <http://www.cals.uidaho.edu/aers> Click on Resources, then on Crops. Each budget is a separate publication, which is stored as a PDF (portable document file). A program called Acrobat Reader is required to view and or print these files. A link to obtain a free copy of Acrobat Reader is also shown on the AERS website.

### **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). A catalog of all available publications can be found on the Internet at <http://www.cals.uidaho.edu/edComm/> Many of these publications are available as PDFs.

If you have any questions or comments regarding the information contained in this publication, contact Paul Patterson ([pattersn@uidaho.edu](mailto:pattersn@uidaho.edu)) at the Idaho Falls R & E Center, 1776 Science Center Drive, Suite 205, Idaho Falls, ID 83402-1575 (529-8376), or Dr. Kathleen Painter ([kpainter@uidaho.edu](mailto:kpainter@uidaho.edu)) at University of Idaho, AERS Dept., P.O. Box 442334, Moscow, ID 83844-2334 (885-6041).

The authors would like to thank all the companies and individuals who assisted with this publication by providing price information. Because of the confidential nature of the information obtained from companies participating in the survey, it is our policy not to identify the companies that provide information. While this keeps us from publicly thanking the cooperators, it also avoids problems of price disclosure. We would also like to thank the Idaho Potato Commission for their assistance in funding a portion of this project under BDK802, Cost of Potato Production in Idaho.

**Table 1. Interest rates and labor costs used for all Idaho crop regions: 2010 and 2011.**

	<u>2010</u>	<u>2011</u>
Operating Interest	7.0%	6.75%
Intermediate Term Interest	7.5%	7.0%
	(2011 Base Wage)	<u>Effective Wage</u>
Equipment Operator Labor: cost per hour* (\$12.50)	\$15.80	\$16.25
Truck Driver Labor: cost per hour (\$11.30)	\$12.50	\$13.00
Irrigation Labor: cost per hour* (\$8.30)	\$11.25	\$11.55
General Farm Labor: cost per hour* (\$8.90)	\$9.30	\$ 9.55

\*Labor cost includes a base wage plus 15% for taxes and benefits on other labor and truck driver labor, and 30% on irrigation and machinery labor. Prior to 2009, the taxes and benefits for irrigation labor was 25%.

**Table 2. Irrigation power costs: 2010 and 2011, and percentage change between years.****Southern Idaho**

Pumping costs are based on Idaho Power's Irrigation Service Schedule 24, and a net water application of 22 inches. Cost per acre inch of water applied will drop when the total water applied is increased because the fixed cost component of the power charge is spread over more inches of water.

\$/ ac-inch applied

	<u>2010</u>	<u>2011</u>	<u>Change</u>
<b>Center Pivot w/ Corner System, 0 lift</b>	<b>\$1.50</b>	<b>\$1.45</b>	<b>-3.3%</b>
Center Pivot w/ Corner System, 100 ft. lift	\$2.39	\$2.32	-2.9%
Center Pivot w/ Corner System, 200 ft. lift	\$3.31	\$3.20	-3.3%
Center Pivot w/ Corner System, 300 ft. lift	\$4.22	\$4.09	-3.1%
Center Pivot w/ Endgun, 0 lift	\$1.18	\$1.15	-2.5%
Center Pivot w/ Endgun, 100 ft. lift	\$2.08	\$2.02	-2.9%
Center Pivot w/ Endgun, 200 ft. lift	\$3.00	\$2.91	-3.0%
Center Pivot w/ Endgun, 300 ft. lift	\$3.91	\$3.79	-3.1%
Wheelline, 0 lift	\$1.26	\$1.23	-2.4%
Wheelline, 100 ft. lift	\$2.23	\$2.17	-2.7%
Wheelline, 200 ft. lift	\$3.23	\$3.14	-2.8%
Wheelline, 300 ft. lift	\$4.22	\$4.11	-2.6%
<u>Idaho Power Irrigation Service: Schedule 24</u>	<u>2010</u>	<u>2011</u>	
Monthly Service Charge: irrigation season	\$17.92	\$18.18	+1.45%
Monthly Demand Charge per kW: irrigation season	\$5.57	\$ 5.65	+1.44%
Energy Charge Base Rate: per kWh	4.4822¢	4.5485¢	+1.48%
Power Cost Adjustment: per kWh	0.3114¢	0.0114¢	-96.3%
Effective Energy Charge: per kWh	4.7936¢	4.5599¢	-4.9%

Note: 2010 pumping costs per acre-inch shown above differ from those published in 2010. The equation used to calculate pumping costs was changed in 2011. So that a valid year-to-year change could be made, the new equation was also used to calculate 2010 pumping costs using the 2010 Idaho Power rates.

**Table 3. Fuel prices per gallon by region, 2010 and 2011.**

		<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<u>Unleaded Gasoline:</u> **					
	2010	\$2.95	\$3.00	\$3.00	\$2.90
	2011	\$3.55	\$3.50	\$3.50	\$3.45
	Change	+\$0.60	+\$0.50	+\$0.50	+\$0.55
<u>Off-Road Diesel:</u> **					
	2010	\$2.65	\$2.65	\$2.60	\$2.55
	2011	\$3.50	\$3.50	\$3.45	\$3.35
	Change	+\$0.85	+\$0.85	+\$0.85	+\$0.80
<u>Road Diesel:</u>					
	2010	\$3.15	\$3.15	\$3.10	\$3.05
	2011	\$4.00	\$4.00	\$3.95	\$3.85
	Change	+\$0.85	+\$0.85	+\$0.85	+\$0.80

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Eastern Idaho (EI).

\*\* Price is for bulk delivery to the farm. Fuel prices are the simple average of prices in four months: February, April, June and August.

**Table 4. Surface water assessments per acre by region, 2010 and 2011.**

	<u>SWI*</u>	<u>SCI*</u>	<u>EI*- All</u>	<u>EI - S</u>	<u>EI - N</u>
2010	\$45.55	\$42.20	\$13.35	\$25.00	\$11.05
2011	\$45.85	\$41.30	\$14.60	\$30.00	\$11.55
Change	+\$0.30	-\$0.90	+\$1.25	+\$5.00	+\$0.50

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Eastern Idaho (EI).

\*\* EI - S (eastern Idaho south counties) include: Bannock, Bingham and Power counties, and EI - N (eastern Idaho north counties) include: Bonneville, Jefferson and Madison counties.

**Table 5. Custom fertilizer & chemical application rates per acre by region, 2011.**

	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<b>Custom Aerial Application:</b>	\$/acre	\$/acre	\$/acre	\$/acre
<b><u>Liquid Material:**</u></b>				
3-gallon: Standard	\$8.35	\$8.15	\$7.75	\$7.95
5-gallon: Standard	\$8.70	\$8.90	\$9.35	\$8.75
7 & 7.5-gallon: Standard	\$9.00	\$9.95	\$10.05	\$10.40
10-gallon: Standard	\$9.40	\$11.05	\$12.50	\$11.00
<b><u>Dry Material:</u></b>				
Cents per lb	8.25	11.0	8.6	9.5
Minimum Charge per acre	\$8.40	\$11.05	\$8.90	\$9.50
<b><u>Dry Fertilizer Application:</u></b>				
Broadcast: 0 - 750 lbs/acre		\$7.50	\$7.10	\$6.65
Broadcast: 500 – 1,500 lbs/acre		\$9.50	\$8.10	\$7.55
Variable Rate Application		\$12.50	\$14.00	\$10.80
<b><u>Liquid Fertilizer Application:</u></b>				
Anhydrous: shanked with aqua	\$6.00			
Anhydrous: applied with cultivator	\$9.00			
Anhydrous: NH <sup>3</sup> + dry (Banducator)	\$7.60			
Broadcast			\$6.75	
Shank-in or Markout		\$22.65	\$21.20	\$16.50
Sidedress		\$12.65	\$13.00	
<b><u>Chemical Application:</u></b>				
Ground Spray: Grain, Hay, Beans		\$8.10	\$6.90	\$6.40
Ground Spray: Potatoes/Sugarbeets		\$8.85	\$7.75	\$7.25
Ground Spray & Incorporate		\$12.85	\$21.00	
Fumigate (Telone): Deep injection		\$31.65	\$35.00	\$43.65
Fumigate: Bedding Row		\$25.75	\$23.50	\$24.65
<b><u>Other:</u></b>				
Markout (dry)		\$19.50	\$18.25	\$19.00
Sulfuric Acid: application only (<29 gal.)		\$10.00	\$9.25	\$ 9.35
Sulfuric Acid: application only (<29 gal.)		\$17.50	\$10.35	\$10.75

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Eastern Idaho (EI).

\*\* The charge to apply sulfuric acid to kill potato vines varies by the amount of product applied. The rate varies between 15 and 40 gallons of sulfuric acid per acre. The application charge varies from \$9 to \$20 per acre and the product charge is \$.80 to \$1.15 per gallon of acid.

Note: Custom rates obtained from Extension Bulletin 729, revised 2011.

**Table 6. Fertilizer component prices per pound by region, 2010 and 2011.**

	<u>Northern Idaho</u>	<u>Southern Idaho</u>
<u>Dry Nitrogen (46-0-0): **</u>		
2010	\$0.48	\$0.47
2011	\$0.68	\$0.61
% Change	+42%	+30%
<u>Liquid Nitrogen (32-0-0): **</u>		
2010	\$0.53	\$0.48
2011	\$0.77	\$0.70
% Change	+45%	+46%
<u>Anhydrous Nitrogen (82-0-0)</u>		
2010	\$0.35	
2011	\$0.55	
% Change	57%	
<u>Dry Phosphate (11-52-0)</u>		
2010	\$0.47	\$0.34
2011	\$0.60	\$0.57
% Change	+28%	+68%
<u>Liquid Phosphate (10-34-0)</u>		
2010	\$0.52	\$0.50
2011	\$0.75	\$0.76
% Change	+44%	+52%
<u>Potassium (0-0-60)</u>		
2010	\$0.46	\$0.43
2011	\$0.57	\$0.51
% Change	+24%	+19%
<u>Dry Sulfur (Elemental 90%)</u>		
2010	\$0.35	\$0.17
2011	\$0.31	\$0.22
% Change	-11%	+29%
<u>Liquid Sulfur (Thiosul)</u>		
2010	\$0.31	\$0.28
2011	\$0.41	\$0.34
% Change	+32%	+21%

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern.

Phosphate is P<sub>2</sub>O<sub>5</sub> and potassium is K<sub>2</sub>O.

Fertilizer prices are given in price per pound of element, not product. Prices in Table 6 are based on average product prices per ton found in Table 13. The nitrogen in 11-52-0 was valued at the cost of urea-based nitrogen in order to calculate the value of the phosphate. The nitrogen in 10-34-0 was valued at the cost of solution 32 nitrogen in order to calculate the value of liquid phosphate.

**Table 7. Herbicide prices for northern Idaho and southern Idaho, 2011.**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho*</b>	<b>Southern Idaho*</b>
2,4-DB 200	gal	\$41.60	\$32.65
2,4-D Amine 4	gal	\$19.80	\$16.75
2,4-D Ester LV4	gal	\$23.10	\$19.60
Accent 75DF	oz	\$43.00	
Achieve	gal	\$459.00	
Affinity BroadSpec 50 SG	oz	\$10.50	\$11.65
Affinity TankMix 50 SG	oz	\$8.00	\$9.25
Aim 2EC	gal	\$1,084	\$912
Ally XP DF	oz		\$15.35
Ally 60 XP DF	oz	\$12.25	
Ally Extra SG	oz	\$7.85	
Amber (triasulfuron)	oz	\$10.65	
Assure II EC	gal	\$105.00	\$175.00
Atrazine 4L	gal	\$20.20	\$23.25
Axial Star	gal	\$147.00	
Axial TBC	case	\$842.00	
Axial XL	gal	\$138.00	\$123.00
Axiom DF	lb	\$32.85	
AZA-Direct	gal		\$180.00
Banvel 4SL (Dicamba)	gal	\$50.15	
Banvel 4L	gal		\$56.95
Barrage HF	gal	\$39.20	
Basagran	gal	\$106.00	\$108.00
Beacon WDG	oz	\$35.05	
Beyond	gal	\$538.00	\$575.00
Bronate Advanced (2.5 + 2.5EC)	gal	\$58.00	\$43.50
Brox M 2 + 2EC	gal	\$34.00	
Brox M Ultra 2.5 + 2.5EC	gal	\$49.40	
Brox (Buctril 2EC)	gal	\$37.95	
Buctril 4EC	gal		\$157.00
Callisto (4 lb)	gal	\$588.00	
Casoron	lb	\$3.05	
Casoron 4G	lb		\$2.80
Cerone Plant Growth Regulator	gal		\$120.00
Chateau WDG	lb	\$112.00	\$93.25
Clarity	gal	\$84.25	\$97.90
Clopyr Ag 3SL	gal	\$250.00	
Curtail	gal	\$41.40	\$53.40
Curtail M	gal	\$46.50	\$65.00

**Table 7. Herbicide prices for northern Idaho and southern Idaho, 2011. (cont.)**

<b><u>Product</u></b>	<b><u>Unit</u></b>	<b><u>Northern Idaho*</u></b>	<b><u>Southern Idaho*</u></b>
Direx 80DF	lb	\$5.55	
Direx 4L	gal	\$30.90	
Discover NG	gal	\$167.00	\$159.00
Distinct	lb	\$56.00	
Diuron 80DF	lb	\$5.70	\$6.95
Dual Magnum 7.62EC	gal	\$123.00	\$150.00
Dual II Magnum 7.64EC	gal		\$123.00
Eptam 7E	gal	\$56.75	\$48.25
Escort XP	oz	\$13.25	\$15.75
Everest 2.0	oz	\$19.20	
Express SG	oz	\$20.05	
Far-Go EC	gal	\$58.95	
Far-Go 4EC	gal		\$64.00
Finesse	oz	\$16.30	
Fusilade DX	gal	\$241.00	\$230.00
GlyStar Plus 3SL	gal	\$12.00	
Goal 2XL	gal	\$120.00	\$86.35
GoldSky	gal	\$144.00	\$135.00
Gramoxone Inteon	gal	\$35.75	\$36.40
Harmony Extra SG	oz		\$30.20
Harmony Extra XP	oz	\$11.85	\$13.85
Harmony GT XP	oz	\$27.90	
Harmony SG	oz	\$44.70	
Harness 7EC	gal		\$98.15
Hoelon	gal	\$111.00	\$112.00
Huskie	gal	\$99.90	\$99.15
Lorox DF	lb	\$20.30	\$19.25
Matrix 25DF	oz		\$17.15
Matrix SG	oz		\$16.75
Maverick	oz	\$18.10	
Maverick WDG	oz		\$21.00
MCPA-Amine	gal	\$22.65	\$21.25
MCPA-Ester	gal	\$26.50	\$24.15
MH-30	gal		\$14.40
Mustang Max	gal	\$228.00	\$243.00
Nortron 4SC	gal		\$110.00
Orion	gal	\$54.90	
Osprey WDG	oz	\$3.55	
Osprey 4.5WDG	oz		\$4.50

**Table 7. Herbicide prices for northern Idaho and southern Idaho, 2011. (cont.)**

<b><u>Product</u></b>	<b><u>Unit</u></b>	<b><u>Northern Idaho*</u></b>	<b><u>Southern Idaho*</u></b>
Outlook 6EC	gal	\$190.00	\$209.00
Poast 1.5EC	gal	\$85.00	\$107.00
Poast Plus	gal		\$80.00
Powerflex	lb	\$56.70	
Prowl 3.3 EC	gal		\$38.15
Prowl H2O	gal	\$43.45	\$45.75
Puma 1EC	gal	\$222.00	\$260.00
Pursuit	gal		\$7.50
Pursuit Plus EC	gal		\$250.00
Pursuit 2AS	gal	\$493.00	
Raptor 1SL	gal	\$602.00	\$636.00
Reglone Desiccant	gal		\$118.00
Rely 200	gal		\$64.85
Rely 280	gal		\$76.50
Rhomene	gal	\$19.25	
Roundup RT Master III	gal		\$18.00
Roundup Power Max 4.5SL	gal	\$22.50	\$23.75
Roundup RT Master III	gal	\$18.00	
Select 2EC	gal	\$239.00	\$134.00
Select Max 1EC	gal	\$131.00	\$110.00
Sencor 4L	gal	\$101.00	
Sencor 75DF (Metribuzen)	lb	\$17.25	\$16.00
Metribuzen Generics DF	lb		\$14.20
Metribuzen Generics DF	gal	\$13.55	
Metribuzen Generics Liquid	gal		\$83.50
Sinbar 80WP	lb	\$43.80	\$40.00
Sonalan HFP	gal	\$46.85	\$45.60
Spartan 4F	gal	\$609.00	
Starane Flex	gal	\$62.55	
Starane NXT	gal	\$75.00	\$82.50
Starane Ultra	gal	\$200.00	\$270.00
Starane + Salvo	gal	\$64.00	
Starane + Sword	gal	\$64.00	
Stinger	gal	\$402.00	\$472.00
Sulfuric Acid	gal		\$1.75

**Table 7. Herbicide prices for northern Idaho and southern Idaho, 2011. (cont.)**

<b><u>Product</u></b>	<b><u>Unit</u></b>	<b><u>Northern Idaho*</u></b>	<b><u>Southern Idaho*</u></b>
Targa	gal	\$105.00	\$166.00
Tordon 22K	gal	\$95.60	\$130.00
Treflan TR10	lb	\$1.50	\$1.10
Tri-Cor 75DF	lb	\$13.00	\$14.00
Trilin	gal	\$23.45	
Triflurex HFP	gal	\$25.00	\$23.30
UpBeet 50 DF	oz		\$72.90
Velpar L	gal	\$89.70	
Velpar Alfamax	lb	\$16.70	
Velpar AlfaMax DG	lb		\$13.65
Weedmaster	gal	\$31.55	\$43.00
Weedone 638	gal	\$28.20	\$30.45
Widematch EC	gal	\$73.25	\$79.50

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern.

**Table 8. Sticker/spreader prices for northern Idaho and southern Idaho, 2011.**

<b><u>Product</u></b>	<b><u>Unit</u></b>	<b><u>Northern Idaho</u></b>	<b><u>Southern Idaho</u></b>
Activate Plus	gal	\$23.30	\$
Activator 90	gal	\$15.75	\$20.00
Ad Wet 90	gal		\$21.75
Align (AgriFoam)	gal	\$39.00	
Alliance	gal	\$13.00	\$10.00
Ammonium Sulfate	lb	\$0.40	
Ammonium Sulfate	gal	\$5.15	\$9.10
Class Act	gal	\$13.80	\$12.00
Crop Oil Concentrate	gal	\$12.10	\$13.40
Destiny	gal	\$14.65	\$21.00
Dyne Amic	gal	\$52.95	
Excel 90	gal		\$17.80
In-Place	gal	\$39.30	
M-90	gal	\$22.00	
Methylated Seed Oil	gal	\$18.05	\$19.90
Preference	gal		\$25.00
Preference 1	gal	\$30.05	
Preference 2.5	gal	\$25.15	
Quest	gal	\$19.75	
Surf 90	gal		\$

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern.

**Table 9. Fungicide prices for northern Idaho and southern Idaho, 2011.**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho*</b>	<b>Southern Idaho*</b>
Bayleton	lb		\$81.00
Bravo Ultrex WDG	lb	\$5.65	\$5.95
Bravo Weather Stik (6 lb)	gal	\$53.65	\$37.00
Bumper 41.8EC (generic Tilt)	gal	\$121.00	
Curzate 60 DF	lb		\$52.30
Dithane 75 DF Rainshield	lb		\$6.00
Dithane F45 Rainshield	gal		\$36.65
Dividend Extreme	gal	\$138.00	
Dividend XL RTA	gal	\$78.00	
Echo	gal	\$45.00	
Echo DF	lb		\$5.90
Enable 2F	gal		\$239.00
Endura	oz		\$6.30
Folicar 3.6F	gal	\$78.40	
Gavel 75DF	lb		\$8.05
Gem 500SC	oz		\$8.10
Headline	gal	\$359.00	\$409.00
Kocide 300	lb	\$9.00	
ManKocide	lb		\$8.20
Manzate 200DF Pro Stick	lb		\$4.25
Maxim MZ	lb		\$4.30
Moncoat MZ	lb		\$2.20
Moncut 70DF	lb		\$30.40
Omega 500 DF	gal		\$515.00
Penncozeb 75DF	lb		\$4.60
Quadris Flowable	gal	\$357.00	\$377.00
Quadris Opti	gal	\$107.00	\$126.00
Quilt	gal	\$160.00	\$198.00
Raxil MD	gal	\$62.00	\$60.00
Raxil Thiram	gal	\$71.95	\$70.25
Revus	gal		\$365.00
Revus Top	gal		\$286.00
Rovral 4L	gal		\$170.00
Scala SC	gal		\$261.00
Stratego	gal	\$235.00	
Tanos DF	lb		\$49.60
Tilt	gal	\$130.00	\$345.00
Topsin 4.5 FL	gal	\$70.60	
Topsin M 70 WSB	lb	\$11.60	
Ultra Flourish	gal		\$380.00
Vitavax	gal	\$39.00	

**Table 10. Fumigant/Nematicide prices for southern Idaho, 2011.**

<b>FUMIGANTS:</b>	<b>Unit</b>	<b>Southern Idaho*</b>
Metam Sodium	gal	\$ 5.90
Telone II	gal	\$15.00
Vapam 42%	gal	\$ 5.60
K-Pam	gal	\$ 7.90

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern.

**Table 11. Insecticide and nematicide prices for northern and southern Idaho, 2011.**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho</b>	<b>Southern Idaho</b>
Admire Pro	fl oz		\$2.90
Agri-Mek .15EC	gal	\$432.00	
Ambush 25W	lb		\$48.00
Asana XL	gal	\$86.70	\$108.00
Assail 70WP	oz		\$8.00
AZA-Direct	gal		\$180.00
Beleaf 50SG	lb		\$140.00
Capture 2 EC	gal	\$282.00	\$288.00
Capture LFR	gal		\$300.00
Comite (6.5 lb)	gal	\$96.15	\$77.00
Counter 15G L-N-L	lb		\$2.50
Counter 20G	lb		\$3.35
Cruiser 5 FS	gal	\$895.00	\$900.00
Cruiser Maxx – Cereal	gal	\$2,500.00	
Cruiser Maxx – Potatoes	gal		\$971.00
Dibrom 8 E	gal		\$95.45
Dimethoate 4EC	gal	\$38.70	\$42.00
Fulfill WDG	oz		\$6.75
Gaucho 600	gal	\$750.00	
Gaucho XT	gal	\$355.00	
Imidan 70WP	lb	\$11.80	
Lannate LV	gal		\$76.25
Leverage 2.7	gal		\$231.00
Lorsban 4 E	gal	\$38.00	\$46.70
Lorsban 15G	lb		\$2.25
Malathion 5 EC	gal	\$41.20	\$32.15
Mocap 6 EC	gal	\$123.00	
Movento	gal		\$7.15

**Table 11. Insecticide and nematicide prices for northern & southern Idaho, 2011. (cont.)**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho</b>	<b>Southern Idaho</b>
Mustang Max	gal	\$212.00	\$235.00
Orthene 97	lb		\$9.70
Penncap-M	gal		\$39.75
Perm-Up	gal		\$59.10
Platinum	fl oz		\$6.90
Provado 1.6 F	gal		\$42.00
Regent 4SC	fl oz		\$5.80
Rimon .83 EC	gal		\$187.00
Sevin 4F	gal		\$44.50
Sevin XLR	gal	\$53.30	\$54.45
Success (2 lb ai Spinosad)	gal		\$702.00
Supracide 2E	gal		\$65.80
Temik 15G (L-N-L)	lb		\$4.30
Thimet 20G (L-N-L)	lb		\$3.05
Vydate C-L-V (3.77 lb)	gal		\$103.00
Vydate L (2 lb)	gal	\$101.00	
Warrior	gal	\$279.00	
Warrior w/Zeon Tech.	gal		\$585.00
Warrior II w/ Zeon Tech.	gal	\$418.00	\$427.00

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern.

**Table 12. Seed prices, most include treatment, by region, 2011.**

	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<u>Forage Crops:</u>					
Alfalfa (private) – pre-inoculated	lb		\$3.20	\$3.25	\$3.60
Alfalfa (public) – pre-inoculated	lb		\$2.95	\$3.05	\$2.95
Alfalfa – Roundup Ready	lb		\$6.75		\$6.90
Alfalfa (Ladek)	lb	\$3.50			
Alfalfa (Perfect)	lb	\$4.65			
Alfalfa (Vernal)	lb	\$3.35			
Forage Barley, Spring	lb		\$0.27		\$0.25
Triticale	lb		\$0.31	\$0.27	\$0.28
<u>Grasses &amp; Clover</u>					
Blue Grass, turf (common)	lb	\$2.20			
Blue Grass (pasture)	lb	\$2.35			
Brome (Smooth)	lb	\$2.20	\$1.75	\$1.85	\$2.45
Brome (Smooth - common)	lb	\$2.05			
Brome (Smooth - Meadow)	lb	\$2.35	\$3.50	\$3.50	\$2.95
Clover	lb		\$2.00-3.50	\$1.60-2.50	\$1.75-3.55
Orchard Grass	lb	\$	\$1.55	\$1.60	\$2.05
Orchard Grass – Potomac	lb	\$1.45			
Orchard Grass – Latar	lb	\$1.55			
Orchard Grass – Payute	lb	\$1.60			
Pasture Mix – Irrigated	lb		\$1.35	\$1.75	\$1.85
Pasture Mix - Dryland			1.85	\$3.45	\$2.90
Rye Grass	lb		\$1.35	\$0.95	\$1.35
Rye Grass – Perennial	lb	\$1.25			
Sudan Grass – Warm season annual	lb	\$1.30			
Teff Grass – Warm season annual	lb	\$2.75			
Timothy Grass – Climax (common)	lb	\$1.25			
Timothy Grass – Outlaw	lb	\$2.20			
<u>Legumes</u>					
Austrian Winter Peas	lb	\$0.28	\$0.44	\$0.41	\$0.41
Chick Peas (Garbanzo Beans)	cwt	\$47.00			
Edible Dry Spring Peas (stand-up type)	cwt	\$19.00			
Edible Dry Spring Peas (vine type)	cwt	\$17.50			
Lentils - Brewers	cwt	\$35.00			
Lentils – Pardina	cwt	\$32.00			

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI), and Eastern Idaho (EI).

**Table 12. (cont.) Seed prices, most prices include treatment, by region, 2011.**

	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<b>Oil Seeds:</b>					
Canola, spring, Roundup Ready	lb	\$9.55			
Canola, winter, Roundup Ready	lb	\$5.32			
Canola, winter, Amanda	lb	\$3.08			
Mustard	lb	\$2.50			
<b>Grain:</b>					
Feed Barley, Champion variety	lb	\$0.25			
Feed Barley, Spalding variety	lb	\$0.20			
Feed Barley, Spring	lb		\$0.22	\$0.21	\$0.19
Feed Barley, Winter	lb		\$0.28		
Malting Barley, Spring	lb	\$0.26		\$0.24	\$0.22
Malting Barley, Winter	lb			\$0.26	\$0.22
Oats	lb	\$0.17	\$0.22	\$0.21	\$0.21
<sup>3/</sup> Wheat: Durum	lb			\$0.28	\$0.24
<sup>3/</sup> Wheat: Hard Red Spring	lb	\$0.30		\$0.26	\$0.25
<sup>3/</sup> Wheat: Hard Red Spring – PVPs	lb	\$0.33			
<sup>3/</sup> Wheat: Hard White Spring	lb			\$0.26	\$0.22
<sup>3/</sup> Wheat: Hard White Winter				\$0.23	
<sup>3/</sup> Wheat: Hard Red Winter	lb			\$0.24	\$0.23
<sup>3/</sup> Wheat: Soft White Spring	lb	\$0.24	\$0.28	\$0.24	\$0.21
<sup>3/</sup> Wheat: Soft White Spring – PVPs	lb	\$0.27			
<sup>3/</sup> Wheat: Soft White Winter	lb	\$0.22	\$0.22	\$0.23	\$0.22
<sup>3/</sup> Wheat: Soft White Winter – PVPs	lb	\$0.24			
<sup>3/</sup> Wheat: Club	lb	\$0.24			
<b>Corn Seed per bag: (80,000 seed)</b>					
Conventional	bag		\$120-160	\$120-160	\$160-175
Roundup Ready Corn2 (RR2)	bag		\$170-200	\$170-200	\$185-195
RR2 + Corn Borer	bag		\$165-190	\$165-190	
RR2 + Yield Guard VT Triple Pro	bag		\$200-250	\$200-250	
RR2 + Hurculex Extra	bag		\$210-255	\$210-255	\$225-265
	bag				
Liberty Link (LL)	bag		\$115-130		
LL + Corn Borer	bag		\$185-200		
LL + Hurculex Extra	bag		\$185-235		

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI), and Eastern Idaho (EI).  
 Bag of corn seed weighs approximately 50 lbs. Corn seeding rate: 35,000 – 40,000 seeds per acre.

**Table 12 (cont.). Seed prices, mostly with treatment, by region, 2011.**

	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
Dry Beans: Commercial, Pintos	cwt		\$62.00	\$48.00	
Dry Beans: Commercial, Pinks	cwt		\$62.00	\$48.00	
Dry Beans: Commercial, Small Reds	cwt		\$64.00	\$48.00	
<b>Onion Seed: 500,000 seeds per pail<sup>1/</sup></b>					
Cost to Prime Seed	pail		\$103		
Yellow (Raw)	pail		\$199		
Red (Raw)	pail		\$246		
White (Raw)	pail		\$206		
Yellow (Coated-Pellet)	pail		\$1,150		
Red (Coated-Pellet)	pail		\$1,372		
White (Coated-Pellet)	pail		\$1,175		
<b>Potatoes: FOB Seed Area</b>					
<sup>2/</sup> Russet Burbank G-2 (\$16.50)	cwt				\$17.15
<sup>2/</sup> Russet Burbank G-3 (\$12.30)	cwt		\$14.55	\$14.05	\$13.50
<sup>2/</sup> Russet. Norkotah G-3 (\$12.65)	cwt		\$14.90	\$14.40	\$13.85
<sup>2/</sup> Ranger G-2 (\$15.75)	cwt				\$16.40
<sup>2/</sup> Ranger G-3 (\$11.50)	cwt		\$13.75	\$13.25	
	cwt				
Cutting Potato Seed	cwt		\$1.60	\$1.60	\$1.60
Treat Potato Seed**	cwt		\$0.45	\$0.45	\$0.45
<b>Sugarbeet Seed: 100,000 seeds/unit</b>					
Roundup Ready: Raw, Coated & Primed	unit		\$125	\$127	\$125
- Roundup Ready Technology Fee	unit		\$134	\$133	\$133
Nematode Resistance & RUR Fee	unit		\$155	\$157	\$155
Insecticide Seed Treatment (Poncho beta)	unit		\$49.50	\$48.50	\$48.50
<sup>3/</sup> Total Seed Cost: Range	unit		\$308-340	\$308-340	\$306-338
<sup>3/</sup> Total Seed Cost: Typical	unit		\$308	\$307	\$306

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI), and Eastern Idaho (EI).

\*\* Treatment is with Mancozeb and fir bark, or PST6%.

<sup>1/</sup> Approximately 98% of seed sold are coated and 10-20% is primed.

<sup>2/</sup> Regional seed potato prices include the base price plus regional transportation and handling costs : SWI, SCI, EI-South and EI-North are \$2.25, \$1.75, \$1.20 and \$0.65 respectively. The values shown above for EI seed potatoes are for the South District counties, except for G2 Russet Burbank, which is for the North District.

<sup>3/</sup> Price includes a technology fee

**Table 13. Fertilizer prices for northern Idaho and southern Idaho, Spring/Summer 2011.**

<b>Product</b>	<b>Northern Idaho</b>	<b>Southern Idaho</b>
<b>Nitrogen: Price per ton</b>		
Ammonium Sulfate (20-0-0-24)		\$410
Ammonium Sulfate (20-0-0-40)	\$468	
Ammonium Sulfate (21-0-0-24)		\$390
Urea (46-0-0-0)	\$625	\$555
Anhydrous Ammonia (82%)	\$898	\$945
Aqua Ammonia (23%)	\$237	
Solution 32 (32-0-0-0) – Liquid	\$490	\$445
Thio Sul (12-0-0-26) – Liquid	\$400	\$345
Nitro Sul (20-0-0-40)	\$	
<b>Phosphate: Price per ton</b>		
16-20-0	\$597	\$550
11-52-0 (MAP)	\$798	\$725
10-34-0 (Liquid)	\$663	\$657
3-30-0-4		\$575
11-37-0		\$600
<b>Potash: Price per ton</b>		
Muriate of Potash (0-0-60-0)	\$686	\$615
Sulfate of Potash (0-0-50-17)		\$680
Liquid Potash (0-0-13)	\$	\$180
Liquid Potash (0-0-15)	\$192	
<b>Trace: Price per ton.</b>		
Boron (14%)	\$1,075	\$1,730
Copper Sulfate (25%)		\$4,665
Iron (50%)		\$1,200
Manganese Sulfate (30-32%)		\$1,800
Zinc Sulfate (36%)	\$1,550	\$2,265
Sulfur – Elemental (90%)	\$565	\$390
Gypsum	\$390	

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern.

**Table 13. Fertilizer prices for northern Idaho and southern Idaho, 2011 (cont).**

<b><u>Product</u></b>	<b><u>Northern Idaho*</u></b>	<b><u>Southern Idaho*</u></b>
<b>Trace: Price per lb. of element, not product.</b>		
Boron (14%)	\$3.60	\$2.85
Copper Sulfate (25%)		\$4.75
Iron (50%)		\$1.20
Manganese Sulfate (30-32%)		\$2.80
Zinc Sulfate (33-36%)	\$2.15	\$3.35
Sulfur – Elemental (90%)	\$0.31	\$0.22

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Eastern Idaho (EI).

## Idaho Crop Input Price Summary for 2012

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### Background

This publication provides price information for operating inputs commonly used in the production of crops in Idaho. This information is used to develop new or revise existing cost of production estimates for traditional and alternative crops or crop production systems. Input prices include: herbicides, fungicides, insecticides/nematicides, fertilizers, seeds, interest rates, labor, fuel, water assessments, and custom rate charges for chemical and fertilizer applications. Additional custom rates are found in University of Idaho Bulletin 729, *Custom Rates for Idaho Agricultural Operations 2010/2011*. A PDF version of this publication is available on the Internet at <http://www.cals.uidaho.edu/edComm/pdf/BUL/BUL0729.pdf>

The University of Idaho College of Agricultural and Life Sciences publishes costs and returns (CAR) estimates – more commonly referred to as enterprise budgets -- for many of the major crops grown in Idaho. Crop CAR estimates are revised and published every other year in odd-numbered years. Livestock CAR estimates are revised and published in even-numbered years. PDF versions of the CAR estimates can be found on the Internet at <http://www.cals.uidaho.edu/aers> Click on **Resources** and then click on **Crops** or **Livestock**. The crop CAR estimates are also available in Excel format and as data files for the U of I's *Crop Enterprise Budget Worksheet* program. These data files are available at no charge and can be found at the same Internet site.

Idaho crop costs and returns estimates are developed for four geographic 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 and do vary significantly by region. The four crop regions include: 1) Northern Idaho (NI), with primary emphasis on Boundary, Clearwater, Idaho, Kootenai, Latah and Lewis counties; 2) Southwestern Idaho (SWI), with primary emphasis on Canyon, Elmore, Owyhee, Payette and Washington counties; 3) Southcentral Idaho (SCI), with primary emphasis on Cassia, Gooding, Jerome, Minidoka, and Twin Falls counties; and 4) Eastern Idaho (EI) with an emphasis on two areas: Bannock, Bingham and Power counties for the southern part of the region and Bonneville, Jefferson, Fremont and Madison counties for the northern portion of the region. The Southcentral region also contains crop costs and returns for subregional areas.

## **Procedure**

The data used to generate the information in this publication were collected by phone and mail surveys conducted between February and October 2012. Cost data shown in this publication are reported as averages by region, or in the case of labor and interest rates, averages for the state. 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 were obtained from a survey of Idaho seed potato growers and commercial potato growers. The seed potato prices shown in parenthesis in Table 12 are the F.O.B price for whole seed potatoes in the seed producing regions of eastern Idaho. The seed potato price shown for each region includes the F.O.B. seed price from seed potato growers plus handling and transportation costs from the seed area to the commercial potato area of the respective regions.

## **General Input Costs**

Input costs that do not vary consistently between regions and those that do not fit one of the major input categories are found on page 10 in Table 1. These include interest rates and labor costs.

### Interest Rates

Agricultural lenders use a risk-rating system to evaluate a customer's credit status. Along with loan volume, the credit score is used in determining the interest rate on a loan. Low risk, high volume borrowers are charged a lower interest rate. Interest rates also vary depending on whether the rate is variable, adjustable, or fixed over the loan period. The interest rate charged on an operating line by most banks is on a "Prime Rate plus basis." Traditionally, the interest rate is 0.5 to 2.5 percent above the Prime Interest Rate. However, financially sound borrowers may have a sub-prime rate. The interest rate charged on most operating lines remains variable and fluctuates with the underlying index, Prime Rate or Libor for instance; although the rate may be fixed for a specified period of time, for example, six months. The interest rate on intermediate term loans lasting three to eight years was typically 0 to 0.5 percent above the operating interest for a given borrower. An increasing number of financial institutions now use LIBOR-based interest rates for term loans (London Inter-Bank Offered Rate), rather than basing them on the prime rate.

Typical interest rates charged on operating, intermediate (equipment and livestock), and real estate loans are shown in Table 1. Operating loan interest rates at the time of the survey (July 2012) ranged between 4.5 and 6.75 percent. A typical interest rate was 6.0 percent. This rate pertains to a low credit risk customer on a moderate to high loan volume. At the time of the survey in July, 2012, the Prime Rate was 3.25 percent, the same rate as July 2011. The spread between the prime interest rate and the rate charged producers on operating lines is currently much wider than it has been in the past. Since July of this year, the Fed has not made any interest rate adjustments and is not likely to raise rates until 2014 at the earliest. The historically low interest rate is designed to provide liquidity for financial markets and fight the recession. While interest rates over the next year will remain low by historical standards, credit availability will remain a more important issue for many borrowers, especially for highly leveraged farmers and ranchers, or for those with a severe or chronic cash flow problem because of low commodity prices. Credit availability and cash flow issues are not problems for most crop farms in Idaho.

The interest rate charged by agricultural lenders on intermediate loans, which is typically from one to seven years, varied from 4.5 to 7.0 percent in the July survey. A typical fixed rate for a low credit risk borrower was 6.25 percent. Financing with a lower interest rate is often available through machinery and equipment dealerships, however. The interest rate charged on agricultural real estate loans were 5.00 to 6.25 percent, mostly around 5.50 percent.

### Labor

Labor charges used in the CAR estimates vary according to the type of job and the skill of the laborer. Four labor categories are used in the University of Idaho CAR estimates (Table 2). General farm labor pertains to unskilled, seasonal labor hired primarily to help during planting and harvesting. Irrigation labor distinguishes between the less skilled labor used for set-move irrigation systems (handlines and wheellines), and the greater skilled and often permanent labor used to manage continuous-move irrigation systems (center pivots and linear moves). Labor for irrigation system repairs is included in the irrigation repair costs. Truck driver labor is used for onions, potatoes and sugarbeets where drivers are hired during harvest. Equipment operator labor includes semi-skilled and often permanent employees that operate tractors and other machinery. Compared to 2011, base wage rates increased by approximately 3.9% to 7.7%, or \$.45 to \$1.50 per hour, varying by the type of labor. The large increase in the equipment operator wage rate resulted from an adjustment reflecting that farms have many long time employees and use of the lower value used in the past understated the labor costs on many farms. Labor costs shown in Table 2 include a base wage plus the employer's payroll tax contribution, workers compensation, and other benefits

and overhead typically paid by the employer, converted to an hourly rate basis. The value of these payroll taxes and benefits varies by the class of labor and is expressed as a percent of the base wage. The tax/benefits rate is 15 percent for general farm labor and truck drivers, 25% for equipment operator labor and employees that manage continuous-move irrigation systems, and 30 percent for set-move irrigation labor. The tax/benefit percentages are from a 2012 and earlier labor surveys.

### Power Costs

The power cost per acre-inch of water applied by different irrigation systems and at different lifts (0-, 100-, 200- and 300-feet) is shown in Table 3. The costs for all irrigation systems are based on a 160-acre field configuration and Idaho Power's Agricultural Irrigation Schedule 24 for 2012. The standard cost per acre-inch of water applied used in most irrigated crop costs and returns estimates published by the University of Idaho is based on the center pivot with a corner system and zero lift. The 2012 CAR estimates use \$1.56 per acre-inch for power costs, an increase of 6.1 percent over the \$1.47 per acre-inch cost in 2011. Idaho Power's Energy Charge base rate per kilowatt-hour was 4.6168 cents in 2011 and 4.584 cents in 2012, a decrease of 0.7%. But the effective power rate (the Energy Charge Base Rate plus the Power Cost Adjustment) increased 1.8 percent, going from 4.6282 cents per kWh to 4.7135 cents per kWh. The Power Cost Adjustment factor in 2011 was 0.0114 cents and 0.01295 cents in 2012, an increase of 1,036%. The demand charge per kW and the monthly service charge increased by 15.7% and 21.0%, respectively. The demand charge went from \$5.65 to \$6.54 per kW and the monthly service charge increased from \$18.18 to \$22.00 for the monthly service charge. The cost per acre-inch of water applied reflects the net impact of all these rate changes.

### **General Input Costs with Regional Variation**

Table 4 on page 12 includes fuel prices by region and Table 5 summarizes the per acre water assessments paid by surface water users in southern Idaho. Table 6 on page 13 summarizes the commonly used custom rate charges by region.

### Fuel

For the third year fuel prices were based on the average of multiple samples during the year, rather than the previous practice of sampling only once. Prices in Table 4 are the simple average of prices from four time periods: February, April, June, and August. Prices were rounded to the nearest \$.05. Gasoline prices were lowest in February and highest in June. Diesel prices were highest in April and lowest in August. However, both gasoline and diesel prices jumped considerably in the weeks just

after the August survey. Fuel price varies by location within the state. In general, the price of gasoline and diesel typically increases from east to west across southern Idaho. Compared to eastern Idaho, the annual average price of gas was five cents higher in both western Idaho and in the Magic Valley, and ten cents higher in northern Idaho. Diesel prices in both western Idaho and northern Idaho averaged fifteen cents higher than eastern Idaho, while the average price in the Magic Valley was ten cents higher. At the time of the August survey, fuel prices in Idaho had been trending down. Compared to 2011, unleaded gasoline prices in 2012 were \$0.05 to \$0.10 per gallon higher in southern Idaho and \$0.15 higher in northern Idaho. Compared to 2011, diesel prices in 2012 were \$0.15 per gallon higher in eastern Idaho, and \$0.05 per gallon higher in the Magic Valley, western Idaho and northern Idaho.

### Irrigation Water Assessments

Table 5 on page 12 summarizes the water assessments for southern Idaho. These water assessment charges are the simple average of the values reported by irrigation districts and canal companies contacted in each region. The same irrigation districts/canal companies are surveyed each year to maintain a consistent base for price change comparisons. Assessments made on a per share of water basis are converted to a per acre charge. All canal companies and irrigation districts surveyed deliver surface water to the farm in an open ditch.

The 2012 average water assessment reported by the seven water organizations surveyed in southwestern Idaho, \$45.85, was the same as 2011, ranging from a low of \$20.00 per acre to a high of \$66.00. The average water assessment charge reported by the five water organizations surveyed in southcentral Idaho increased by \$2.85 per acre from \$41.30 to \$44.15, ranging from \$24.00 to \$65.00 per acre. Water charges in eastern Idaho are considerably lower than for the other two areas of southern Idaho, especially in the upper Snake River. The average water assessment reported by the six water organizations surveyed in eastern Idaho increased by \$0.10 from \$14.60 to \$14.70 per acre, ranging from \$9.60 to \$30.00 per acre. The five water organizations in the north end of the region charged an average \$11.65 per acre, a \$0.10 increase over 2011, while the one water organization in the south end of the region charged \$30 per acre, the same as in 2011.

### Custom Rates

Table 6 on page 13 contains the rate charged by aerial applicators for both liquid and dry material applications. Table 6 also lists the custom charges made to apply fertilizer and chemical by various ground methods. Aerial application charges typically vary by the quantity and type of material applied. The charge for applying liquid materials falls into the categories based on the application

rate. While other categories exist, Table 6 shows the most common categories: 3-gallon, 5-gallon, 7- or 7.5 gallon, and 10-gallon. 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 aerial applicators have a sliding scale, charging less per acre for a large job and more per acre for smaller jobs. They may also charge less when fields are large and easily accessible, compared with small or irregularly 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 regional differences are reflected in Table 6. Table 6 also contains costs of other types of services, including the custom application of sulfuric acid to kill potato vines. A complete list of custom rates can be found in Extension Bulletin 729, Custom Rates of Idaho Agricultural Operations 2010-2011. A PDF can be found at <http://info.ag.uidaho.edu/pdf/BUL/BUL0729.pdf>

#### Fertilizer Component Prices

The fertilizer component prices found in Table 7 are derived from fertilizer product prices listed in Table 14. Fertilizer shown in the University of Idaho CAR estimates are typically listed in pounds of element (N, P<sub>2</sub>O<sub>5</sub>, K<sub>2</sub>O, etc.), not product (e.g. 11-52-0). The price per pound for nitrogen (dry and liquid), phosphate (dry and liquid), potassium and sulfur are included in Table 7. The source material is identified in the last footnote below the table.

Table 14 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 dry nitrogen price in Table 7 is based on the price of nitrogen in Urea (46-0-0) and is used for most pre-plant nitrogen applications in the University of Idaho's CAR estimates, while the liquid nitrogen price is based on the price of nitrogen in Solution 32 (32-0-0). The liquid nitrogen price is typically used on post-planting fertilizer applications. Dry phosphate price is based on the price of phosphate in 11-52-0 with the nitrogen in 11-52-0 valued at the price of nitrogen in Urea. The liquid phosphate price is based on the price of phosphate in 10-34-0 with the nitrogen valued at the price of nitrogen in Solution 32. Potassium's price is based on potassium chloride (Muriate of potash 0-0-60) and sulfur's price is based on elemental sulfur.

Fertilizer prices in 2012 were higher across the board in southern Idaho, but in northern Idaho, phosphate and potash prices were lower. Dry nitrogen prices (Urea) increased by 13%, or \$0.08 per pound in southern Idaho, and by 25% or \$0.17 per pound in northern Idaho. The price of anhydrous

ammonia was also up by 25%. The price for liquid nitrogen (32-0-0) was up by 7%, or \$0.05 per pound in southern Idaho, and by 14%, or \$0.06 per pound in northern Idaho. Dry and liquid phosphate prices were up 5% and 20%, respectively in southern Idaho, and down 5% and 8%, respectively, in northern Idaho. The price of potash (0-0-60) in southern Idaho increased by 2%, or \$0.06 per pound, and dropped by 4%, or \$0.03 per pound in northern Idaho. Fertilizer prices in general were very volatile this spring. The differences in the direction of price changes in fertilizer between northern Idaho and southern Idaho is at least partially explained by the data being collected at different times.

### **Herbicide Prices**

Table 8, found on pages 15-18, gives herbicide price information for just two regions of Idaho, northern Idaho and southern Idaho. Herbicide prices for all three regions of southern Idaho are combined for the third year in a row. Dry material is priced per pound or ounce and liquid material is priced per gallon or fluid ounce. There are a few products priced per case, with an equivalent price per ounce. The price of liquid products is generally based on a 2-1/2 gallon container price. Prices are rounded to the nearest \$0.05 for most products or to the nearest dollar on products costing over \$100 per unit. 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.

### **Sticker/Spreader Prices**

The price per gallon for commonly used stickers, spreaders and anti-foaming agents are found on page 19 in Table 9. Prices are rounded to the nearest \$.05 per gallon.

### **Fungicide Prices**

Table 10, found on pages 19-20, contains fungicide price information for two regions of Idaho, northern Idaho and southern Idaho, again combining prices for all of southern Idaho into one region. Dry material is priced per pound or per ounce and liquid material is priced per gallon or per fluid ounce. Prices were rounded to the nearest \$.05 or the nearest \$1 for products costing more than \$100 per unit. Fumigant/nematicide prices are listed in Table 11, which is found on page 21.

### **Insecticide and Nematicide Prices**

Insecticide and nematicide prices are shown in Table 12 on pages 21 and 22 for two regions of Idaho, northern and southern. Dry material is priced on a per pound or ounce basis, while the price

of liquids is on a per gallon basis. Prices were rounded to the nearest \$0.05 or the nearest dollar for products costing more than \$100 per unit.

### **Seed Prices**

Table 13 on pages 23-26 contains seed prices by region. Prices are given in the common units for that commodity and include pound, hundredweight, unit (100,000 seeds) in the case of sugarbeet seed, and pail (500,000 seeds) for onion seed. In general, seed prices were obtained only for those crops for which the University of Idaho presently publishes a costs and returns estimate. *Keep in mind that there is a great deal of variability in seed prices for some crops, particularly among different varieties.* The seed prices in Table 13 should be considered representative, but they are by no means comprehensive. Seed prices in Table 13 generally include a seed treatment. Potatoes are an exception with the price to cut and treat potato seed shown separately. Seed treatment on sugarbeets is also listed separately.

### **Fertilizer Prices**

Table 14 on pages 27-28 contains price information for fertilizer. Prices for the macronutrients are per ton. Formulation for various materials is also shown. Prices for micronutrients (trace elements) are given both per ton and per pound of element. Caution is advised on trace element prices. The price variation is extreme and there are likely subtle but important differences in the source material that were not picked up by the survey.

### **Costs and Returns Estimates**

University of Idaho crop costs and returns estimates are no longer printed but they can be downloaded from the Department of Agricultural Economics and Rural Sociology website at the following URL: <http://www.cals.uidaho.edu/aers> Click on Resources, then on Crops. Each budget is a separate publication, which is stored as a PDF (portable document file). A program called Acrobat Reader is required to view and or print these files. A link to obtain a free copy of Acrobat Reader is also shown on the AERS website. Crop budgets are also available in Excel and for the University of Idaho's Crop Enterprise Budget Worksheet program. Users can easily modify these files to fit their own farm's situation.

### **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). A catalog of all available publications can be found on the Internet at <http://www.cals.uidaho.edu/edComm/> Many of these publications are available as PDFs.

If you have any questions or comments regarding the information contained in this publication, contact Paul Patterson ([pattersn@uidaho.edu](mailto:pattersn@uidaho.edu)) at the Idaho Falls R & E Center, 1776 Science Center Drive, Suite 205, Idaho Falls, ID 83402-1575 (208-529-8376), or Dr. Kathleen Painter ([kpainter@uidaho.edu](mailto:kpainter@uidaho.edu)) at University of Idaho, AERS Dept., P.O. Box 442334, Moscow, ID 83844-2334 (208-885-6041).

The authors would like to thank all the companies and individuals who assisted with this publication by providing price information. Because of the confidential nature of the information obtained from companies participating in the data collection procedures, it is our policy not to identify the companies that provide information. While this keeps us from publicly thanking the cooperators, it also avoids problems of price disclosure. We would also like to thank the Idaho Potato Commission for their assistance in funding a portion of this project under BDK902, Cost of Potato Production in Idaho.

**Table 1. Interest rates used for all Idaho crop regions: 2011 and 2012.**

	<u>2011</u>	<u>2012</u>
Operating Interest (less than 12 months)	6.75%	6.00%
Intermediate Term Interest (3-7 years)	7.00%	6.25%
Long Term Interest (15-30 years)		5.50%

**Table 2. Labor costs used for all Idaho crop regions: 2011 and 2012.**

		<u>2011</u>		<u>2012</u>	
	Taxes & Benefits %	Base Wage	Effective Wage	Base Wage	Effective Wage
General Farm Labor	15%	\$8.30	\$9.55	\$8.75	\$10.05
Truck Drivers (harvest)	15%	\$11.30	\$13.00	\$11.75	\$13.50
Irrigation Labor	30%	\$8.90	\$11.55		
Irrigation Labor (HL & WL)	30%			\$9.50	\$12.35
Irrigation Labor (CP & L)	25%			\$14.00	\$17.50
Equipment Operator	25%	\$12.50	\$16.25	\$14.00	\$17.50

Note: prior to 2012, equipment operator taxes/benefits % was 30%.

Taxes include social security (6.5%) and workers compensation (3.5-4.0%). Benefits vary by class of worker, but would include personal leave days (vacation/sick days), medical insurance, vehicle or fuel allowance and meals. Housing is included in the set-move irrigation labor taxes/benefits ratio. HL and WL refer to handline and wheelline set-move irrigation system, while CP and L refer to center pivot and linear move continuous-move irrigation systems.

**Table 3. Irrigation power costs: 2011 and 2012, and percentage change between years.**  
**Southern Idaho**

Pumping costs are based on Idaho Power's Irrigation Service Schedule 24, and a net water application of 22 inches. Cost per acre inch of water applied will drop when the total water applied is increased because the fixed cost component of the power charge is spread over more inches of water.

\$/ ac-inch applied

	<u>2011</u>	<u>2012</u>	<u>Change</u>
<b>Center Pivot w/ Corner System, 0 lift</b>	<b>\$1.47</b>	<b>\$1.56</b>	<b>+6.1%</b>
Center Pivot w/ Corner System, 100 ft. lift	\$2.34	\$2.49	+6.4%
Center Pivot w/ Corner System, 200 ft. lift	\$3.24	\$3.43	+5.9%
Center Pivot w/ Corner System, 300 ft. lift	\$4.13	\$4.38	+6.0%
Center Pivot w/ Endgun, 0 lift	\$1.16	\$1.24	+6.9%
Center Pivot w/ Endgun, 100 ft. lift	\$2.04	\$2.17	+6.4%
Center Pivot w/ Endgun, 200 ft. lift	\$2.94	\$3.12	+6.1%
Center Pivot w/ Endgun, 300 ft. lift	\$3.83	\$4.06	+6.0%
Wheelline, 0 lift	\$1.24	\$1.33	+7.3%
Wheelline, 100 ft. lift	\$2.20	\$2.35	+6.8%
Wheelline, 200 ft. lift	\$3.17	\$3.39	+6.9%
Wheelline, 300 ft. lift	\$4.15	\$4.44	+7.0%
<u>Idaho Power Irrigation Service: Schedule 24</u>	<u>2011</u>	<u>2012</u>	
Monthly Service Charge: irrigation season	\$18.18	\$22.00	+21%
Monthly Demand Charge per kW: irrigation season	\$ 5.65	\$ 6.54	+15.7%
Energy Charge Base Rate: per kWh	4.6168¢	4.584¢	-0.71%
Power Cost Adjustment: per kWh	0.0114¢	0.1295¢	+1,036%
Effective Energy Charge: per kWh	4.6282¢	4.7135¢	+1.84%

Note: energy charge base rate was switched to average of < 165 and > 165 kWh per kW demand starting in 2012. The values for 2011 were recalculated using the same procedure.

**Table 4. Fuel prices per gallon by region, 2011 and 2012.**

		<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<u>Unleaded Gasoline:</u> **					
	2011	\$3.55	\$3.50	\$3.50	\$3.45
	2012	\$3.70	\$3.60	\$3.55	\$3.50
	Change	+\$0.15	+\$0.10	+\$0.05	+\$0.05
<u>Off-Road Diesel:</u> **					
	2011	\$3.50	\$3.50	\$3.45	\$3.35
	2012	\$3.60	\$3.55	\$3.50	\$3.50
	Change	+\$0.10	+\$0.05	+\$0.05	+\$0.15
<u>Road Diesel:</u>					
	2011	\$4.00	\$4.00	\$3.95	\$3.85
	2012	\$4.10	\$4.05	\$4.00	\$4.00
	Change	+\$0.10	+\$0.05	+\$0.05	+\$0.15

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Eastern Idaho (EI).

\*\* Price is for bulk delivery to the farm. Fuel prices are the simple average of prices in four months: February, April, June and August.

**Table 5. Surface water assessments per acre by region, 2011 and 2012.**

	<u>SWI*</u>	<u>SCI*</u>	<u>EI*- All</u>	<u>EI – S</u>	<u>EI - N</u>
2011	\$45.85	\$41.30	\$14.60	\$30.00	\$11.55
2012	\$45.85	\$44.15	\$14.70	\$30.00	\$11.65
Change	+\$0	+\$2.85	+\$0.10	+\$0	+\$0.10

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Eastern Idaho (EI).

\*\* EI – S (eastern Idaho south counties) include: Bannock, Bingham and Power counties, and EI – N (eastern Idaho north counties) include: Bonneville, Jefferson and Madison counties.

**Table 6. Custom fertilizer & chemical application rates per acre by region, 2012.**

	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<b>Custom Aerial Application:</b>	\$/acre	\$/acre	\$/acre	\$/acre
<b><u>Liquid Material:**</u></b>				
3-gallon: Standard	\$8.35	\$8.25	\$8.00	\$8.15
5-gallon: Standard	\$8.70	\$9.15	\$9.25	\$8.95
7 & 7.5-gallon: Standard	\$9.00	\$10.30	\$10.25	\$10.40
10-gallon: Standard	\$9.40	\$11.75	\$11.75	\$11.50
<b><u>Dry Material:</u></b>				
Cents per lb	8.25	11.0	9.5	9.5
Minimum Charge per acre	\$7.40	\$11.00	\$9.50	\$9.50
<b><u>Dry Fertilizer Application:</u></b>				
Broadcast: 0 - 400 lbs/acre	\$6.50	\$8.00	\$7.00	\$6.50
Broadcast: 400 – 800 lbs/acre		\$8.50	\$7.50	\$7.15
Broadcast: 800 – 1,200 lbs/acre		\$9.25	\$9.00	\$8.00
Variable Rate Application		\$13.50	\$14.50	\$13.00
<b><u>Liquid Fertilizer Application:</u></b>				
Anhydrous: shanked with aqua	\$7.75			
Anhydrous: w/cultivator	\$8.50			
Anhydrous: w/min-till	\$7.50			
Broadcast	\$6.75		\$7.00	
Shank-in or Markout		\$24.00	\$21.00	\$18.50
Sidedress		\$13.00	\$13.00	
<b><u>Chemical Application:</u></b>				
Ground Spray: Grain, Hay, Beans	\$6.75	\$8.25	\$7.00	\$6.75
Ground Spray: Potatoes/Sugarbeets		\$8.85	\$7.75	\$7.25
Ground Spray & Incorporate		\$12.00	\$21.00	
Fumigate (Telone): Deep injection		\$35.00	\$40.00	\$40.00
Fumigate: Bedding Row		\$25.00	\$24.50	\$24.65
<b><u>Other:</u></b>				
Markout (dry)		\$20.00	\$19.00	\$19.00
Sulfuric Acid: application only (20 gal.)		\$14.00	\$11.75	\$12.00
Sulfuric Acid: application only (30 gal.)		\$17.50	\$14.00	\$14.00

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Eastern Idaho (EI).

\*\* The charge to apply sulfuric acid to kill potato vines varies by the amount of product applied. The rate varies between 15 and 40 gallons of sulfuric acid per acre. The application charge varies from \$11.50 to \$20 per acre and the product charge is \$2.00 to \$2.25 per gallon of acid.

Note: Custom rates obtained from Extension Bulletin 729 (2011) & chemical/fertilizer dealers (2012).

**Table 7. Fertilizer component prices per pound by region, 2011 and 2012.**

	<u>Northern Idaho</u>	<u>Southern Idaho</u>
<u>Dry Nitrogen (46-0-0): **</u>		
2011	\$0.68	\$0.61
2012	\$0.85	\$0.69
% Change	+25%	+13%
<u>Liquid Nitrogen (32-0-0): **</u>		
2011	\$0.77	\$0.70
2012	\$0.83	\$0.75
% Change	+14%	+7.1%
<u>Anhydrous Nitrogen (82-0-0)</u>		
2011	\$0.55	
2012	\$0.69	\$0.60
% Change	25%	
<u>Dry Phosphate (11-52-0)</u>		
2011	\$0.60	\$0.57
2012	\$0.57	\$0.60
% Change	-5%	+5.3%
<u>Liquid Phosphate (10-34-0)</u>		
2011	\$0.75	\$0.76
2012	\$0.69	\$0.91
% Change	-8%	+20%
<u>Potassium (0-0-60)</u>		
2011	\$0.57	\$0.51
2012	\$0.55	\$0.57
% Change	-4%	+12%
<u>Dry Sulfur (Elemental 90%)</u>		
2011	\$0.31	\$0.22
2012		\$0.25
% Change		+14%
<u>Liquid Sulfur (Thiosul)</u>		
2011	\$0.41	\$0.34
2012	\$0.57	\$0.46
% Change	+39%	+35%

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern. Phosphate is P<sub>2</sub>O<sub>5</sub> and potassium is K<sub>2</sub>O.

Fertilizer prices are given in price per pound of element, not product. Prices in Table 6 are based on average product prices per ton found in Table 13. The nitrogen in 11-52-0 was valued at the cost of urea-based nitrogen in order to calculate the value of the phosphate. The nitrogen in 10-34-0 and Thiosul was valued at the cost of solution 32 nitrogen in order to calculate the value of liquid phosphate and liquid sulfur, respectively.

**Table 8. Herbicide prices for northern Idaho and southern Idaho, 2012.**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho*</b>	<b>Southern Idaho*</b>
2,4-DB 200	gal	\$41.65	
2,4-D Amine 4	gal	\$19.05	\$19.75
2,4-D Ester LV4	gal		\$24.70
2,4-D Ester LV6	gal	\$33.30	
Accent Q	oz	\$32	
Affinity BroadSpec 50 SG	oz	\$12.95	\$12.15
Affinity TankMix 50 SG	oz	\$9.30	\$9.25
Aim 2EC	gal	\$1,034	\$890
Ally XP	oz	\$16.50	\$15.85
Ally Extra SG	oz	\$7.80	\$8.90
Alto 100SL	gal	\$154	
Amber (triasulfuron)	oz	\$11.10	
Assure II EC	gal	\$101	\$133
Atrazine 4L	gal	\$17.60	\$15.85
Axial Star	gal	\$148	
Axial TBC	gal	\$295	
Axial XL	gal	\$148	\$139
Axiom DF	lb	\$33.05	
AZA-Direct	gal		\$190
Banvel 4L	gal	\$48	\$70
Banvel SGF	gal	\$49	
Barrage HF	gal	\$46.15	
Basagran	gal	\$107	\$102
Beacon WDG	oz	\$23.55	\$42.00
Beyond	gal	\$477	\$475
Bronate Advanced (2.5 + 2.5EC)	gal	\$54.25	\$42.20
Brox 2EC (Buctril)	gal	\$37.90	
Brox M 2+2EC (Bronate)	gal	\$37.90	
Brox M Ultra 2.5 + 2.5EC	gal	\$54.25	
Buctril	gal		\$72.00
Buctril 4EC	gal		\$167
Callisto (4 lb)	gal	\$618	\$688
Casoron 4G	lb	\$3.05	\$2.85
Cerone Plant Growth Regulator	gal		
Chateau WDG	lb	\$112	\$95.65
Clarity	gal	\$87.05	\$84.35
Clopyr Ag 3SL	gal	\$250	

**Table 8. Herbicide prices for northern Idaho and southern Idaho, 2012. (cont.)**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho*</b>	<b>Southern Idaho*</b>
Curtail	gal	\$46.15	\$49.90
Curtail M	gal	\$50.25	\$59.15
Direx 80DF	lb	\$5.60	
Direx 4L	gal	\$32.60	\$35.00
Discover .5EC NG	gal	\$172	\$160
Distinct	lb	\$56.00	\$50.75
Diuron 80DF	lb		\$6.30
Diuron 4L	gal	\$30.35	
Dual Magnum 7.62EC	gal	\$120	\$126
Dual II Magnum 7.64EC	gal	\$171	\$132
Eptam 7E	gal	\$59.15	\$50.00
Escort XP	oz	\$16.95	\$15.00
Everest 2.0	oz	\$27.20	
Express SG	oz	\$18.35	\$19.90
Far-Go 4EC	gal	\$62.45	\$60.50
Finesse	oz	\$16.45	
Fusilade DX	gal	\$213	\$162
GlyStar Original 3SL	gal	\$11.25	
GlyStar Plus 3SL	gal	\$11.20	
Goal 2XL	gal	\$97.75	\$81.50
GoldSky	gal	\$151	\$143
Gramoxone Inteon	gal	\$32.35	\$33.95
Harmony SG w/TotalSol	oz	\$39.55	\$34.30
Harmony Extra SG	oz		\$16.35
Harmony Extra XP	oz	\$13.00	
Harmony GTXP	oz	\$20.15	
Harness 7EC	gal		\$97.00
Hoelon	gal	\$120	\$112
Huskie	gal	\$103	\$101
Ignite 280	gal	\$70.45	
Lorox DF	lb	\$22.50	\$20.00
Matrix 25DF	oz		\$17.45
Maverick WDG	oz	\$17.95	\$18.75
MCPA-Amine	gal	\$24.35	\$24.00
MCPA-Ester	gal	\$25.65	\$25.90
Metribuzin 75DF	lb		\$12.60
MH-30	gal		\$16.10

**Table 8. Herbicide prices for northern Idaho and southern Idaho, 2012. (cont.)**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho*</b>	<b>Southern Idaho*</b>
Micro-Tech	gal		\$29.50
Mustang Max	gal	\$234	\$233
Nortron 4SC	gal		\$97.65
Olympus 70%	oz	\$12.50	
Orion	gal	\$59.40	
Osprey	oz	\$3.60	\$4.10
Outlook 6EC	gal	\$205	\$195
Peak	oz	\$14.35	
Poast 1.5EC	gal	\$104	\$99.50
Poast Plus	gal		\$86.00
Powerflex	lb	\$60.25	
Prowl 3.3 EC	gal		\$40.20
Prowl H2O	gal	\$46.90	\$44.25
Puma 1EC	gal	\$236	\$250
Pursuit	gal	\$439	\$445
Pursuit Plus EC	gal		\$595
Raptor 1SL	gal	\$517	\$519
Reglone Desiccant	gal		\$91.35
Rely 280	gal		\$84.40
Roundup RT Master III	gal		\$17.00
Roundup Power Max (4.5 lb)	gal	\$23.74	\$21.00
Roundup RT Master III	gal	\$17.45	
Select 2EC	gal	\$143	\$128
Select Max 1EC	gal	\$125	\$110
Sencor 4L	gal	\$101	\$85.00
Metribuzen Generics Liquid	gal		\$74.00
Sencor 75DF	lb		\$13.50
Metribuzen Generics DF	lb	\$13.55	\$12.60
Sinbar 80WP	lb	\$52.00	\$41.25
Sonalan HFP	gal	\$48.65	\$39.90
Spartan 4F	gal	\$703	\$582
Starane 1.5EC	gal		\$307
Starane Flex	gal	\$63.40	
Starane NXT	gal	\$77.00	\$83.20
Starane Ultra	gal	\$239	\$250
Starane + Salvo	gal	\$64.00	
Starane + Sword	gal	\$64.00	
Stinger	gal	\$579	\$566

**Table 8. Herbicide prices for northern Idaho and southern Idaho, 2012. (cont.)**

<u>Product</u>	<u>Unit</u>	<u>Northern Idaho*</u>	<u>Southern Idaho*</u>
Sulfuric Acid	gal		\$2.25
Targa	gal	\$95.00	\$160
Tordon 22K	gal	\$91.90	\$71.05
Treflan TR10	lb	\$1.55	\$1.90
Treflan HFP 4EC	gal		\$26.25
Tri-Cor 75DF	lb	\$12.50	\$14.00
Triflurex HFP 4EC	gal	\$29.65	\$28.50
Trilin	gal	\$21.95	
Velpar 2L	gal	\$92.80	\$98.35
Velpar Alfamax DG	lb	\$17.60	\$15.20
Weedmaster	gal	\$26.75	\$30.95
Weedone 638	gal	\$28.90	\$32.75
Widematch EC	gal	\$73.55	\$81.50

**Table 9. Sticker/spreader prices for northern Idaho and southern Idaho, 2012.**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho</b>	<b>Southern Idaho</b>
Activate Plus	gal	\$20.90	
Ad Wet 90	gal		\$20.50
Align (AgriFoam)	gal	\$39.00	
Alliance	gal	\$14.20	\$11.50
Ammonium Sulfate	lb	\$0.43	
Ammonium Sulfate	gal	\$3.00	\$8.90
Breakthru	gal		\$100
Class Act	gal	\$15.50	\$11.25
Crop Oil Concentrate	gal	\$13.95	\$13.65
Destiny	gal	\$14.65	\$24.75
Dyne Amic	gal	\$58.65	
Indicate 5	gal		\$45.00
In-Place	gal	\$31.60	
M-90	gal	\$24.70	
Methylated Seed Oil	gal	\$	\$19.50
Preference	gal	\$26.80	\$24.50
Prime Oil	gal	\$14.45	
Quest	gal	\$20.90	

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern.

**Table 10. Fungicide prices for northern Idaho and southern Idaho, 2012.**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho*</b>	<b>Southern Idaho*</b>
Amistar	lb		\$106
Bayleton	lb		\$80.70
Blocker 4F	gal		\$40.00
Bravo Ultrex WDG	lb	\$5.90	\$5.95
Bravo Weather Stik (6 lb)	gal	\$44.35	\$37.05
Bumper 41.8EC (generic Tilt)	gal	\$129	\$105
Champ Formula 2	gal		\$5.00
Curzate 60 DF	lb		\$56.00
Dithane F45 Rainshield	gal		\$33.90
Dividend Extreme	gal	\$141	\$110
Dividend XL RTA	gal	\$78	
Echo	gal	\$45	

**Table 10. Fungicide prices for northern Idaho and southern Idaho, 2012. (cont.)**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho*</b>	<b>Southern Idaho*</b>
Enable 2F	lb		\$236
Endura	oz	\$6.80	\$6.45
Equs DF	lb		\$5.00
Equs 720	gal		\$34.50
Folicar 3.6F	gal		
Forum	gal		\$227
Gavel 75DF	lb		\$8.10
Gem 500SC	oz		\$7.25
Headline	gal	\$386	\$390
Kocide 300	lb	\$9.00	
ManKocide	lb		\$8.45
Manzate 200DF	lb		\$4.00
Maxim MZ	lb		\$4.90
Microthiol Disperris	lb		\$1.35
Moncoat MZ	lb		\$2.30
Moncut 70DF	lb		\$33.25
Omega 500 DF	gal		\$497
Penncozeb 75DF	lb		\$3.75
Pristine	lb		\$3.15
Quadris Flowable	gal	\$355	\$355
Quadris Opti	gal	\$113	\$104
Quadris Ridomil Gold	gal		\$825
Quilt	gal	\$160	\$184
Rally WP	oz		\$3.15
Ranman	gal		\$820
Raxil MD	gal	\$62.00	\$66.50
Raxil Thiram	gal	\$74.00	
Reason 500SC	gal		\$365
Revus Top	gal		\$334
Ridomil Gold MZ	lb		\$15.50
Ridomil Gold/Bravo	lb		\$99.00
Rovral 4	gal		\$151
Scala SC	gal		\$249
Stratego	gal	\$235	\$264
Tanos DF	lb		\$47.70
Thiolux	lb		\$25.30
Tilt	gal	\$123	\$172
Topsin 4.5 FL	gal	\$73.40	
Topsin M 70 WSB	lb	\$15.10	
Twinline	gal	\$244	
Ultra Flourish	gal		\$350
Vitavax	gal	\$39	

**Table 11. Fumigant/Nematicide prices for southern Idaho, 2012.**

<b>FUMIGANTS:</b>	<b>Unit</b>	<b>Southern Idaho*</b>
Metam Sodium	gal	\$ 6.05
Telone II	gal	\$15.40
Telone C17	gal	\$20.00
Vapam 42%	gal	\$ 6.15
K-Pam	gal	\$ 7.50

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern.

**Table 12. Insecticide and nematicide prices for northern and southern Idaho, 2012.**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho</b>	<b>Southern Idaho</b>
Admire Pro	fl oz		\$2.65
Agri-Mek .15EC	gal	\$264	\$122
Agri-Mek .7SC	gal		\$314
Ambush 2EC	gal		\$180.00
Asana XL	gal	\$119	\$101
Assail 30SG	oz		\$6.90
AZA-Direct	gal		\$184
Beleaf 50SG	lb		\$147
Brigadier	gal		\$202
Capture 2 EC	gal		\$250
Capture LFR	gal	\$351	
Carzol	lb		\$53.50
Comite (6.5 lb)	gal	\$96.15	\$82.90
Counter 15G L-N-L	lb		\$2.50
Cruiser 5 FS	gal		\$642
Cruiser Maxx – Cereal	gal		\$745
Dibrom 8 E	gal		\$103
Dimethoate 4EC	gal	\$37.50	\$43.80
Endigo ZC	gal		\$150
Fulfill WDG	oz		\$6.85
Gaicho 600	gal	\$686	\$588
Gaicho XT	gal	\$355	
Hero	lb		\$190
Imidan 70WP	lb	\$12.40	\$11.25
Lannate LV	gal		\$81.25
Leverage 2.7	gal		\$231

**Table 12. Insecticide and nematicide prices for northern & southern Idaho, 2012. (cont.)**

<b>Product</b>	<b>Unit</b>	<b>Northern Idaho</b>	<b>Southern Idaho</b>
Lorsban 4 E	gal	\$39.90	\$46.15
Lorsban 15G	lb		\$2.10
Malathion 5 EC	gal	\$41.60	\$33.65
Metasystox	gal		\$131
Mocap 15G	lb		\$3.50
Mocap 6 EC	gal	\$135	\$113
Monitor 4	gal		\$180
Movento	gal		\$893
Mustang Max	gal	\$212	\$219
Oberon 2SC	gal		\$389
Orthene 97	lb		\$9.50
Pennacap-M	gal		\$36.75
Perm-Up	gal		\$54.00
Platinum	oz		\$6.25
Provado 1.6 F	gal		\$180
Radiant SC	gal		\$616
Regent 4SC	fl oz		\$7.90
Rimon .83 EC	gal		\$220
Sevin XLR	gal	\$56.65	\$66.00
Success (2 lb ai Spinosad)	gal		\$717
Thimet 20G (L-N-L)	lb		\$3.10
Vydate C-L-V (3.77 lb)	gal		\$101
Vydate L (2 lb)	gal	\$122	\$96
Warrior w/Zeon Tech.	gal	\$279	\$256
Warrior II w/ Zeon Tech.	gal	\$488	\$416

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern.

**Table 13. Seed prices, most prices include treatment, by region, 2012.**

	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<u>Forage Crops:</u>					
Alfalfa (private) – pre-inoculated	lb		\$2.75-4.95	\$3.50-4.95	\$3.30-4.95
Alfalfa (public) – pre-inoculated	lb		\$2.25-3.65	\$2.80-3.65	\$1.45-3.80
Alfalfa – Roundup Ready	lb		\$7.00-7.50		\$6.45-7.00
Alfalfa (Laddek)	lb	\$4.50			
Alfalfa (Perfect)	lb	\$4.50			
Alfalfa (Vernal)	lb	\$4.50			
Beardless Forage Barley, Spring	lb		\$0.27		\$.27
Triticale	lb		\$0.31-.33	\$.29 -.30	\$.34-.42
<u>Grasses &amp; Clover</u>					
Blue Grass, turf (common)	lb	\$2.00	\$1.80		
Blue Grass (pasture)	lb	\$2.00			
Brome (Smooth)	lb		\$1.40	\$1.50-4.00	\$2.50-3.60
Brome (Smooth - Manchar)	lb	\$3.00			
Brome (Smooth - Meadow)	lb	\$3.25		\$1.50-5.00	\$3.40-3.75
Crested Wheat Grass	lb		\$2.60-7.85	\$7.85	\$7.85
Clover: Red	lb		\$1.50-2.95	\$1.90-2.95	\$2.95-3.50
Clover: White	lb			\$2.75-4.25	\$3.50-5.00
Fescue, Tall	lb	\$1.50	\$1.65-1.70	\$1.70	\$1.70
Orchard Grass	lb	\$1.50	\$1.95	\$1.25-2.50	\$1.80-3.75
Pasture Mix – Irrigated	lb		\$1.25-2.20	\$1.80-2.45	\$1.80-3.00
Pasture Mix - Dryland			\$3.35	\$	\$
Rye Grass	lb	\$0.60	\$1.45	\$0.60-1.45	\$1.45-4.75
Rye Grass – Perennial	lb	\$1.50	\$.85-1.20		
Teff Grass – Warm season annual	lb	\$	\$2.60		
Timothy Grass – Climax (common)	lb	\$2.25	\$2.30	\$2.30	\$2.30
Timothy Grass – Outlaw	lb	\$2.75			
<u>Legumes</u>					
Austrian Winter Peas	lb	\$0.32	\$0.38-.80	\$.40 - .80	\$0.40-.80
Chick Peas (Garbanzo Beans) - Large	lb	\$0.63			
Chick Peas (Garbanzo Beans) – Small	lb	\$0.62			
Edible Dry Spring Peas (stand-up type)	cwt	\$28.90			
Edible Dry Spring Peas (stand-up type)	cwt	\$25.90			
Edible Dry Spring Peas (vine type)	cwt	\$			
Lentils - Brewers	cwt	\$43.40			
Lentils – Pardina	cwt	\$47.85			

Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI), and Eastern Idaho (EI).

**Table 13. Seed prices, most prices include treatment, by region, 2012 (cont.).**

	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<u>Oil Seeds:</u>					
Canola, spring, Roundup Ready	lb	\$9.35			
Canola, winter, Roundup Ready	lb	\$5.50			
Canola, winter, non-GMO	lb	\$4.35			
Flax	lb	\$0.43			
Mustard	lb	\$1.95			
Rape (Dwarf Essex)			\$2.10		
<u>Grain:</u>					
Feed Barley, Spring	lb	\$0.24	\$0.23-.25	\$.21 - .25	\$.18-.25
Feed Barley, Winter	lb	\$0.30	\$0.	\$.24 - .25	\$.27
Malting Barley, Spring	lb	\$0.28		\$.26- .30	\$.24-.25
Malting Barley, Winter	lb			\$0.26	\$0.24
Oats	lb	\$0.17	\$0.29-.31	\$.24 - .32	\$.22-.32
Triticale, Spring	lb	\$0.30			
Triticale, Winter	lb	\$0.36			
<u>3</u> Wheat: Durum	lb			\$0.29	\$0.
<u>3</u> Wheat: Hard Red Spring	lb	\$0.28		\$0.30	\$.23-.29
<u>3</u> Wheat: Hard Red Spring – PVPs	lb	\$0.31			
<u>3</u> Wheat: Hard White Spring	lb			\$.26 - .28	\$.26-.27
<u>3</u> Wheat: Hard White Winter				\$0.27	
<u>3</u> Wheat: Hard Red Winter	lb	\$0.27		\$.24 - .25	\$.22-.27
<u>3</u> Wheat: Hard Red Winter - PVPs	lb	\$0.30			
<u>3</u> Wheat: Hard Red Winter - Clearfield	lb	\$0.33			
<u>3</u> Wheat: Soft White Spring	lb	\$0.24	\$0.27	\$.21 - .25	\$.18-.24
<u>3</u> Wheat: Soft White Spring – PVPs	lb	\$0.28			
<u>3</u> Wheat: Soft White Spring – Club	lb	\$0.25			
<u>3</u> Wheat: Soft White Winter	lb	\$0.26	\$0.23-.24	\$.24 - .27	\$.22-.26
<u>3</u> Wheat: Soft White Winter – PVPs	lb	\$0.28			
<u>3</u> Wheat: Soft White Winter – Clearfield	lb	\$0.30			
<u>3</u> Wheat: Soft White Winter - Club	lb	\$0.26			

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI), and Eastern Idaho (EI).

**Table 13. Seed prices, most prices include treatment, by region, 2012 (cont.).**

	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<u>Corn:</u>					
Corn Seed per bag: (80,000 seed)					
Conventional	bag			\$160	\$
Roundup Ready Corn2 (RR2)	bag			\$216	\$174-220
RR2 + Corn Borer	bag			\$246	
RR2 + Yield Guard VT Triple Pro	bag			\$	\$265-310
RR2 + Hurculex Extra	bag			\$	\$
Liberty Link (LL)	bag			\$218	
LL + Corn Borer	bag			\$218	
LL + Roundup Ready	bag				\$277
LL + CB + RW +RR	bag				\$268
Commercial Dry Beans:					
Pintos	cwt		\$65-70	\$60	
Pinks	cwt		\$65-70	\$55	
Small Reds	cwt		\$65-70	\$55	
Light Red Kidney	cwt		\$85-95	\$	
Dark Red Kidney	cwt		\$85-95		
Cranberry	cwt		\$90-105		
Black	cwt		\$70-85		
Onion Seed: 500,000 seeds per pail <sup>1/</sup>					
Cost to Prime Seed	pail		\$150-160		
Fungicide Seed Treatment	pail		\$50-60		
Insecticide Seed Treatment	pail		\$100		
Yellow (coated-pellet)	pail		\$1,175 – 1,200		
White (coated-pellet)	pail		\$1,200 – \$1,330		
Red (Raw)	pail		\$1,350 – \$1,550 \$		

<sup>1/</sup> Note: only 10-15% of onion seed is primed. Virtually all seed is pelleted, not raw.

**Table 13 (cont.). Seed prices, most prices include treatment, by region, 2012.**

	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<b>Potatoes: FOB Seed Area</b>					
<sup>2/</sup> Russet Burbank G-2 (\$13.50)	cwt				\$14.15
<sup>2/</sup> Russet Burbank G-3 (\$11.50)	cwt		\$13.75	\$13.25	\$12.70
<sup>2/</sup> Russet. Norkotah G-3 (\$13.50)	cwt		\$15.75	\$15.25	\$14.70
<sup>2/</sup> Ranger G-2 (\$12.50)	cwt				\$
<sup>2/</sup> Ranger G-3 (\$11.95)	cwt		\$14.20	\$13.70	\$13.15
	cwt				
Cutting Potato Seed	cwt		\$1.65	\$1.65	\$1.65
Treat Potato Seed**	cwt		\$0.45	\$0.45	\$0.45
<b>Sugarbeet Seed: 100,000 seeds/unit</b>					
Raw, Coated & Primed: Low end, RR only, high end includes nematode resistance	unit		\$135-180	\$130-180	\$135-180
- Roundup Ready Technology Fee	unit		\$137.50	\$137.50	\$137.50
Nematode Resistance Fee	unit		\$43-45	\$43-45	\$43
Poncho Beta Seed Treatment	unit		\$50	\$45-50	\$50
<sup>3/</sup> Total Seed Cost: Range	unit		\$275-365	\$270-365	\$275-365
<sup>3/</sup> Total Seed Cost: Typical	unit		\$322	\$315	\$322

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI), and Eastern Idaho (EI).

\*\* Treatment is with Mancozeb and fir bark, or PST6%.

<sup>1/</sup> Approximately 98% of seed sold are coated and 10-20% is primed.

<sup>2/</sup> Regional seed potato prices include the base price plus regional transportation and handling costs :

SWI, SCI, EI-South and EI-North are \$2.25, \$1.75, \$1.20 and \$0.65 respectively. The values shown above for EI seed potatoes are for the South District counties, except for G2 Russet Burbank, which is for the North District.

<sup>3/</sup> Price includes a technology fee

**Table 14. Fertilizer prices for northern Idaho and southern Idaho, Spring/Summer 2012.**

<u>Product</u>	<u>Northern Idaho</u>	<u>Southern Idaho</u>
<b>Nitrogen: Price per ton</b>		
Ammonium Sulfate (20-0-0-24)	\$500	\$440
Urea (46-0-0-0)	\$780	\$634
Anhydrous Ammonia (82%)	\$1,125	\$980
Aqua Ammonia (23%)	\$291	
Solution 32 (32-0-0-0) – Liquid	\$534	\$480
Thio Sul (12-0-0-26) – Liquid	\$493	\$418
<b>Phosphate: Price per ton</b>		
16-20-0	\$667	\$560
11-52-0 (MAP)	\$775	\$773
10-34-0 (Liquid)	\$636	\$770
11-37-0		\$715
<b>Potash: Price per ton</b>		
Muriate of Potash (0-0-60-0)	\$661	\$681
Sulfate of Potash (0-0-50-17)		\$672
Liquid Potash (0-0-13)		\$158
<b>Trace: Price per ton.</b>		
Boron (14%)	\$1,450	\$1,900
Copper Sulfate (25%)		\$6,000
Iron (50%)		\$1,600
Manganese Sulfate (30-32%)	\$1,600	\$1,920
Zinc Sulfate (36%)	\$	\$1,985
Sulfur – Elemental (90%)	\$	\$445
Gypsum	\$390	

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern.

**Table 14. Fertilizer prices for northern Idaho and southern Idaho, 2012 (cont).**

<u>Product</u>	<u>Northern Idaho*</u>	<u>Southern Idaho*</u>
<b>Trace: Price per lb. of element, not product.</b>		
Boron (14%)	\$5.20	\$6.80
Copper Sulfate (25%)		\$13.20
Iron (50%)		\$1.60
Manganese Sulfate (30-32%)	\$2.65	\$3.10
Zinc Sulfate (33-36%)		\$2.75
Sulfur – Elemental (90%)		\$0.27

\* Northern Idaho (NI), Southwestern Idaho (SWI), Southcentral Idaho (SCI) and Eastern Idaho (EI).