

Idaho Crop Input Price Summary for 2015

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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 2013/2014*. This publication is available at <https://www.uidaho.edu/cals/idaho-agbiz>

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. The CAR estimates can be found on at <https://www.uidaho.edu/cals/idaho-agbiz>

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 information in this publication were collected between February and October 2015. 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 this project is 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 13 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. Interest rates are shown in Table 1 and labor rates are shown in Table 2.

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 1.0 to 3.0 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 0.25 to 0.5 percent below the operating interest for a given borrower. Historically, intermediate load interest rates were above operating loan rates. Because of the the

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controversy around LIBOR (rate fixing by some banks) some financial institutions have switched from LIBOR-based interest rates to back to a prime-plus interest 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 (August 2015) ranged between 4.75 and 6.25 percent. A typical interest rate was 5.75 percent. This rate pertains to a low credit risk customer on a moderate to high loan volume. At the time of the survey (August 2015) the Prime Rate was 3.25 percent, the same rate as last year. Since August of this year, the Fed has not made any interest rate adjustments and is not likely to raise rates until 2016. The historically low interest rate, designed to provide liquidity for financial markets and fight the recession, has benefited agriculture for the past seven years. Even with the anticipated interest rate increase in 2016, rates will remain low by historical standards. After several years of favorable commodity prices, credit availability and cash flow issues are not problems for most crop farms in Idaho. There are commodity-specific exceptions, however. And with declining prices for most major commodities, higher interest rates will likely compound cash flow problems because of lower margins.

The interest rate charged by agricultural lenders on intermediate loans, which is typically from one to seven years, varied from 4.0 to 6.5 percent in the August survey. A typical fixed rate for a low credit risk borrower was 5.5 percent. Financing with a lower interest rate is often available through equipment dealerships, however. The interest rate charged on agricultural real estate loans were 5.0 to 6.0 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 wheelines), 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 seasonal drivers are hired during harvest. Equipment operator labor includes semi-skilled and often permanent employees that operate tractors and other machinery. Compared to 2014, base wage rates increased by approximately 2.0%, or \$.20 to \$.30 per hour, varying by the type of labor. Labor costs shown in Table 2 include a base wage plus the employer's

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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 percent for equipment operator labor and for employees that manage continuous-move irrigation systems, and 30 percent for set-move irrigation labor because the farmer often provides housing for these workers. The payroll tax/benefit percentages by labor type are from a 2012 and earlier labor surveys. The range in values report on the 2012 survey are shown below Table 2.

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 2015. 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 2015 CAR estimates use \$1.90 per acre-inch for power costs, a decrease of 0.5 percent over the \$1.91 per acre-inch cost in 2014. (Base rate is the average of the energy charge for <165 kWh and >165 kWh.) Idaho Power's Energy Charge base rate per kilowatt-hour was 5.6453 cents in 2015, unchanged from 2014. But the effective power rate (the Energy Charge Base Rate plus the Power Cost Adjustment) decreased 1.3 percent, going from 6.1716 cents per kWh to 6.0888 cents per kWh. The Power Cost Adjustment factor in 2014 was 0.5263 cents and 0.4435 cents in 2015, a decrease of 15.7%. The monthly demand charge per kW remained unchanged at \$7.01, as did the monthly service charge of \$22.00. 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

Fuel prices were based on the average of multiple samples during the year. 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 August. Diesel prices were highest in June and lowest in February. Fuel price varies by location within the state. In

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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 the same in the Magic Valley and 15 cents higher in western Idaho. Farm diesel prices in the Magic Valley averaged five cents lower than eastern Idaho and ten cents higher in western Idaho. At the time of the August survey, fuel prices in Idaho was trending down. Compared to 2014, unleaded gasoline prices in 2015 were \$0.95 to \$1.05 per gallon lower in southern Idaho. Compared to 2014, farm diesel prices in southern Idaho in 2015 were \$1.10 to \$1.20 per gallon cheaper.

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 average water assessment charge reported by the five water organizations surveyed in southcentral Idaho was to \$45.60 per acre, the same as in 2014. 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 \$15.90 to \$16.00 per acre, ranging from \$9.60 to \$35.00 per acre. The five water organizations in the north end of the region charged an average \$12.25 per acre, a \$0.20 increase over 2014, while the one water organization in the south end of the region charged \$35 per acre, same as in 2014. The 2014 (survey was not completed in 2015) average water assessment reported by the seven water organizations surveyed in southwestern Idaho, \$50.60, was \$1.75 higher than 2013, ranging from a low of \$26.00 per acre to a high of \$71.00.

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

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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 for Idaho Agricultural Operations 2013/2014*. This publication is available at <https://www.uidaho.edu/cals/idaho-agbiz>

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, P₂O₅, K₂O, 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.

In general, fertilizer prices in 2015 were higher than in 2014, urea was the exception. Urea (46-0-0) prices were down 5.2% in southern Idaho. Dry phosphate prices (11-52-0) were up 10.0% and in southern Idaho. And potash (0-0-60) price was up 7.3% in southern Idaho. In general, fertilizer prices have trended down over the summer, a fairly typical pattern.

Herbicide Prices

Table 8, found on pages 15-17, 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 18 in Table 9. Prices are rounded to the nearest \$.05 per gallon.

Fungicide Prices

Table 10, found on pages 18-19, 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 20.

Insecticide and Nematicide Prices

Insecticide and nematicide prices are shown in Table 12 on pages 20 and 21 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 22-25 contains seed prices by region. The range of prices rather than the average price is given for most commodities. 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*

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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 26-27 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: <https://www.uidaho.edu/cals/idaho-agbiz>

Select from one or more of the four categories (Year, Region, Commodity and Format) and then select Search. Each budget is a separate publication stored as a PDF (portable document file). Crop budgets are also available in Excel and for the University of Idaho's Crop Enterprise Budget Worksheet program. All crop budgets for a region are in the same Excel file. Users can easily modify Excel and CEBW files to fit their own farm's situation. Only the PDF has the Background and Assumptions page, however.

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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 Ben Eborn (beborn@uidaho.edu) at the Bear Lake County Extension Office, 21620 US Hwy 30, Montpelier, ID 83254 (208-847-0344), or Norm Ruhoff (nruhoff@uidaho.edu) at University of Idaho, AERS Dept., P.O. Box 442334, Moscow, ID 83844-2334 (208-885-1707).

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: 2014 and 2015.

	<u>2014</u>	<u>2015</u>
Operating Interest (less than 12 months)	6.00%	5.75%
Intermediate Term Interest (3-7 years)	5.75%	5.50%
Long Term Interest (15-30 years)	5.50%	5.25%

Table 2. Labor costs used for all Idaho crop regions: 2014 and 2015.

		<u>2014</u>		<u>2015</u>	
	Taxes & Benefits %	Base Wage	Effective Wage	Base Wage	Effective Wage
General Farm Labor (Seasonal)	15%	\$9.05	\$10.40	\$9.25	\$10.65
Truck Drivers (harvest)	15%	\$12.25	\$14.05	\$12.50	\$14.40
Irrigation Labor:					
Irrigation Labor (HL & WL)	30%	\$9.90	\$12.85	\$10.10	\$13.15
Irrigation Labor (CP & L)	25%	\$14.50	\$18.10	\$14.80	\$18.50
Equipment Operator	25%	\$14.50	\$18.10	\$14.80	\$18.50

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

Taxes include FICA (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.

Responses from 2012 Southern Idaho Survey: Range

	<u>Wage/Salary</u>	<u>Benefit %</u>
Seasonal GFL:	\$7.50 - \$20.00/hr	5% - 20%
Truck Drivers:	\$9.00 - \$15.00/hr	5% - 20%
Permanent:	\$11.00 - \$22.00/hr	10% - 35%
Permanent:	\$2,000 - \$4,000/mo	
Manager:	\$50,000 - \$105,000	20% - 40%
Monthly Housing:	\$250 - \$1,000 per employee, mostly \$300-500	

Benefits may include FICA, FUTA, SUTA, workmen's comp insurance, bonuses, health insurance, vacation/sick days and performance bonuses. Typically, benefit percentage does not include housing when housing is provided.

Table 3. Irrigation power costs: 2014 and 2015, 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>2014</u>	<u>2015</u>	<u>Change</u>
Center Pivot w/ Corner System, 0 lift	\$1.91	\$1.90	-0.5%
Center Pivot w/ Corner System, 100 ft. lift	\$3.06	\$3.03	-1.0%
Center Pivot w/ Corner System, 200 ft. lift	\$4.33	\$4.19	-1.0%
Center Pivot w/ Corner System, 300 ft. lift	\$5.40	\$5.35	-1.0%
Center Pivot w/ Endgun, 0 lift	\$1.51	\$1.50	-0.7%
Center Pivot w/ Endgun, 100 ft. lift	\$2.66	\$2.64	-0.7%
Center Pivot w/ Endgun, 200 ft. lift	\$3.84	\$3.80	-1.0%
Center Pivot w/ Endgun, 300 ft. lift	\$5.01	\$4.96	-1.0%
Wheelline, 0 lift	\$1.61	\$1.60	-0.6%
Wheelline, 100 ft. lift	\$2.85	\$2.83	-0.7%
Wheelline, 200 ft. lift	\$4.12	\$4.08	-1.0%
Wheelline, 300 ft. lift	\$5.39	\$5.34	-1.0%
<u>Idaho Power Irrigation Service: Schedule 24</u>	<u>2014</u>	<u>2015</u>	
Monthly Service Charge: irrigation season	\$22.00	\$22.00	+0%
Monthly Demand Charge per kW: irrigation season	\$ 7.01	\$ 7.01	+0%
Energy Charge Base Rate: per kWh	5.6453¢	5.6453¢	+0%
< 165 kWh per kW of Demand	5.7916	5.7916	+0%
> 165 kWh per kW of Demand	5.4990	5.4990	+0%
Power Cost Adjustment: per kWh	0.5263¢	0.4435¢	-15.7%
Effective Energy Charge: per kWh	6.1716¢	6.0888¢	-1.3%

Note: energy charge base rate was switched to average of < 165 and > 165 kWh per kW demand starting in 2012.

Table 4. Fuel prices per gallon by region, 2014 and 2015.

	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<u>Unleaded Gasoline:</u> **				
2014	\$3.50	\$3.60	\$3.55	\$3.50
2015	\$2.60	\$2.65	\$2.50	\$2.50
\$ Change	-\$0.90	-\$0.95	-\$1.05	-\$1.00
% Change	-25.7%	-26.4%	-29.6%	-28.6%
<u>Off-Road Diesel:</u> **				
2014	\$3.40	\$3.55	\$3.50	\$3.45
2015	\$2.30	\$2.45	\$2.30	\$2.35
\$ Change	-\$1.10	-\$1.10	-\$1.20	-\$1.10
% Change	-32.4%	-31.0%	-34.3%	-31.2%
<u>Road Diesel:</u>				
2014	\$3.95	\$4.05	\$4.00	\$3.95
2015	\$3.00	\$2.95	\$2.85	\$2.85
% Change	-24.0%	-27.2%	-28.8%	-27.8%
\$ Change	-\$0.95	-\$1.10	-\$1.15	-\$1.10

* 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, 2014 and 2015.

	<u>SWI*</u>	<u>SCI*</u>	<u>EI*- All</u>	<u>EI – S</u>	<u>EI - N</u>
2014	\$50.60	\$45.60	\$15.90	\$35.00	\$12.05
2015	\$50.60	\$45.60	\$16.00	\$35.00	\$12.25
Change	\$0	\$0	+\$0.10	\$0	+\$0.20

* 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, 2015.

	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
Custom Aerial Application:	\$/acre	\$/acre	\$/acre	\$/acre
<u>Liquid Material:**</u>				
3-gallon: Standard	\$8.23	\$8.00	\$8.00	\$8.00
5-gallon: Standard	\$8.90	\$9.00	\$8.75	\$8.75
7 & 7.5-gallon: Standard		\$10.25	\$9.75	\$9.75
10-gallon: Standard		\$11.25	\$10.75	\$10.50
<u>Dry Material:</u>				
Cents per lb		10.0	9.0	9.0
Minimum Charge per acre		\$10.00	\$9.00	\$9.00
<u>Dry Fertilizer Application:</u>				
Broadcast: 0 - 400 lbs/acre	\$7.50	\$8.25	\$7.25	\$7.25
Broadcast: 400 – 800 lbs/acre		\$8.75	\$7.75	\$7.75
Broadcast: 800 – 1,200 lbs/acre		\$9.50	\$8.25	\$8.25
Variable Rate Application: 1 or 2 products		\$13.50	11.50	\$11.00
Variable Rate Application: 3 or 4 products		\$16.00	\$14.00	\$13.50
<u>Liquid Fertilizer Application:</u>				
Anhydrous: custom applied				
Shank-in or Markout		\$24.00	\$22.00	\$23.00
Sidedress		\$12.00	\$12.00	
<u>Chemical Application:</u>				
Ground Spray: 1 – 10 gallons	\$7.25	\$8.25	\$7.00	\$7.00
Ground Spray: 11 – 20 gallons	\$8.50	\$8.75	\$7.50	\$7.50
Ground Spray: 21 – 30 gallons		\$9.25	\$8.00	\$8.00
Ground Spray & Incorporate		\$15.00	\$21.00	
Fumigate (Telone): Deep injection		\$48.00	\$44.00	\$44.00
Fumigate: Bedding Row		\$25.00	\$24.50	\$24.65
<u>Other:</u>				
Markout (dry)		\$20.00	\$19.00	\$19.00
Sulfuric Acid: application only (20 gal.)		\$18.00	\$12.00	\$11.00
Sulfuric Acid: application only (30 gal.)		\$20.00	\$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 product charge is \$1.20 to \$1.50 per gallon of acid.

Table 7. Fertilizer component prices per pound by region, 2014 and 2015.

	<u>Northern Idaho</u>	<u>Southern Idaho</u>
<u>Dry Nitrogen (46-0-0): **</u>		
2014	\$0.66	\$0.58
2015	\$0.57	\$0.55
% Change	-13.6%	-5.2%
<u>Liquid Nitrogen (32-0-0): **</u>		
2014		\$0.72
2015		\$0.73
% Change		+1.4%
<u>Anhydrous Nitrogen (82-0-0)</u>		
2014	\$0.65	
2015	\$0.59	
% Change	-9.2%	
<u>Dry Phosphate (11-52-0)</u>		
2014	\$0.55	\$0.48
2015	\$0.55	\$0.53
% Change	0%	+10%
<u>Liquid Phosphate (10-34-0)</u>		
2014		\$0.61
2015	\$0.71	\$0.72
% Change		+18%
<u>Potassium (0-0-60)</u>		
2014	\$0.50	\$0.41
2015	\$0.31	\$0.44
% Change	-38.0%	+7.3%
<u>Dry Sulfur (Elemental 90%)</u>		
2014	\$0.30	\$0.25
2015	\$0.28	\$0.27
% Change	-6.7%	+8.0%
<u>Liquid Sulfur (Thiosul)</u>		
2014		\$0.44
2015	\$0.53	\$0.49
% Change		+11%

Note: prior to 2009, prices in southern Idaho were listed by region: southwestern, southcentral and eastern. Phosphate is P₂O₅ and potassium is K₂O.

Fertilizer prices are given in price per pound of element, not product. Prices in Table 7 are based on average product prices per ton found in Table 14. 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, 2015.

Product	Unit	Northern Idaho	Southern Idaho
2,4-D Amine 4	gal		\$23.90
2,4-D Ester LV4	gal		\$24.25
Acumen	gal		\$32.00
Affinity BroadSpec 50 SG	oz		\$11.85
Affinity TankMix 50 SG	oz		\$8.95
Aim 2EC	gal		\$1,080
Ally XP	oz	\$11.98	\$9.85
Ally Extra SG	oz		\$7.75
Amber (triasulfuron)	oz		
Assure II EC	gal	\$110	\$104
Atrazine 4L	gal		\$22.40
Axial Star	gal		\$145
Axial XL	gal	\$139	\$139
AZA-Direct	gal		\$215
Banvel 4L	gal		\$90
Basagran	gal	\$72.96	\$75.50
Beyond	gal		\$532
Boundary 6.5EC	gal		\$87
Bronate Advanced (2.5 + 2.5EC)	gal	\$55.00	\$44.00
Brox 2EC (Buctril)	gal	\$48.64	\$60.00
Buctril 2EC	gal		\$60
Callisto (4 lb)	gal		\$782
Casoron 4G	lb		\$3.20
Cerone Plant Growth Regulator	gal		
Chateau WDG	lb		\$93
Clarity	gal		\$93
Curtail	gal		\$53.00
Curtail M	gal		\$62.65
Dimetric 75DF	lb		\$18
Discover .5EC NG	gal	\$147	\$154
Diuron 80DF	lb		\$10.00
Dual Magnum 7.62EC	gal		\$112
Dual II Magnum 7.64EC	gal		
Eptam 7E	gal		\$50.15
Escort XP	oz		\$12.00

Table 8. Herbicide prices for northern Idaho and southern Idaho, 2015. (cont.)

Product	Unit	Northern Idaho	Southern Idaho
Everest 2.0	oz		
Express SG	oz		\$19.85
Far-Go 4EC	gal	\$66.64	\$64.50
Finesse	oz	\$17.34	
Fusilade DX	gal		\$164
GlyStar Original	gal		
Goal 2XL	gal		\$71.00
GoldSky	gal		\$140
Gramoxone Inteon	gal		\$44.00
Gramoxone SL	gal		\$30.00
Harmony SG w/TotalSol	oz		\$40.00
Harness 7EC	gal		\$104
Huskie	gal	\$124	\$103
Lorox DF	lb	\$1.57	
Matrix 25DF	oz		\$15.40
Maverick WDG	oz	\$20.77	\$17.60
MCPA-Amine	gal	\$30.72	\$26.00
MCPA-Ester	gal		\$30.75
Metribuzin 75DF	lb		\$14.65
MH-30	gal		\$18.00
Micro-Tech	gal		
Mustang Max	gal	\$204	\$160
Nortron 4SC			\$75
Orion	gal	\$85.76	
Osprey	oz	\$4.31	
Outlook 6EC	gal		\$130
Poast 1.5EC	gal	\$134.16	\$96.00
Poast Plus	gal		
Powerflex	lb		
Prowl 3.3 EC	gal	\$58.88	\$39.00
Prowl H2O	gal		\$45.75
Raptor 1SL	gal		\$586
Reglone Desiccant	gal		\$90.30

Table 8. Herbicide prices for northern Idaho and southern Idaho, 2015. (cont.)

<u>Product</u>	<u>Unit</u>	<u>Northern Idaho</u>	<u>Southern Idaho</u>
Roundup Power Max (4.5 lb)	gal	\$23.04	\$27.25
Roundup RT Master III	gal		\$26.00
Select 2EC	gal		\$135
Select Max 1EC	gal		\$150
Metribuzen Generics DF	lb		\$14.35
Sinbar WDG	lb		\$45.00
Sonalan HFP	gal		\$44.00
Spartan 4F	gal		\$615
Starane 1.5EC	gal		
Starane Flex	gal	\$85.76	
Starane NXT	gal	\$96.00	\$84.50
Starane Ultra	gal		\$238
Stinger	gal		\$502
Sulfuric Acid	gal		\$1.80
Tordon 22K	gal		\$82.35
Treflan TR10	lb		\$1.10
Treflan HFP 4EC	gal		\$32.00
Tri-Cor 75DF	lb		\$15.00
Tri-Cor 4F	gal		\$100
Triflurex HFP 4EC	gal		\$30.00
Velpar 2L	gal		\$85.00
Velpar Alfamax DG	lb		\$17.25
Weedmaster	gal		\$32.50
Weedone 638	gal		\$34.00
Widematch EC	gal		\$75.25

Table 9. Sticker/spreader prices for northern Idaho and southern Idaho, 2015.

Product	Unit	Northern Idaho	Southern Idaho
Activator 90	gal		\$21.75
Ad Max 90	gal		\$26.00
Alliance	gal		\$34.00
Ammonium Sulfate	gal	\$6.40	\$12.00
Class Act	gal	\$15.36	\$15.00
Crop Oil Concentrate	gal	\$15.00	\$16.50
Destiny HC	gal		\$25.00
Indicate 5	gal		\$50.00
In-Place	gal		
Methylated Seed Oil	gal		\$20.50
Non Ionic (R-11 Spreader)	gal	\$29.44	\$27.00
Preference 1.0	gal		\$35.00
Prime Oil	gal		\$15.00
Quest	gal		\$24.00
UAN (28%)	gal		\$3.00
Wet Cit	gal		\$80.00

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, 2015.

Product	Unit	Northern Idaho	Southern Idaho
Blocker 4F	gal		\$49.25
Bravo Ultrex WDG	lb		\$5.15
Bravo Weather Stik (6 lb)	gal		\$37.35
Bravo ZN	gal		\$36.50
Bumper 41.8EC (generic Tilt)	gal		\$135
Caramba	gal		\$172
Curzate 60 DF	lb		\$55.25
Dithane F45 Rainshield	gal		\$34.70
Dividend Extreme	gal		\$131
Echo 720	gal		\$37.00
Enable 2F	gal		\$270
Endura	oz		\$4.70

Table 10. Fungicide prices for northern Idaho and southern Idaho, 2015. (cont.)

Product	Unit	Northern Idaho	Southern Idaho
Equs 720	gal		\$35.00
Gavel 75DF	lb		\$7.75
Gem 500SC	oz		\$8.10
Headline	gal	\$366	\$356
Kocide 3000	lb		\$10.05
Luna Tranquility	gal		\$431
ManKocide	lb		\$9.80
Manzate Pro-Stick	lb		\$4.85
Microthiol Disperss	lb		\$1.25
Moncoat MZ	lb		\$2.75
Moncut 70DF	lb		\$33.45
Omega 500 DF	gal		\$438
Omega Top MP	fl oz		\$4.65
Penncozeb 75DF	lb		\$3.95
Priaxor Xemium	gal		\$510
Proline480SC	gal		\$875
Prosaro 421SC	gal		\$281
Pristine	oz		\$3.35
Quadris Flowable	gal		\$292
Quadris Opti	gal	\$106	\$104
Quadris Ridomil Gold	gal		\$339
Quilt	gal	\$178	\$143
Quilt Xcel	gal		\$195
Rally WP	oz		\$4.00
Ranman	gal		\$600
Raxil MD	gal		\$67.20
Reason 500SC	gal		\$396
Revus Top	gal		\$310
Ridomil Gold MZ	lb		\$14.55
Ridomil Gold/Bravo SC	gal		\$124
Rovral 4L	gal		\$161
Scala SC	gal		\$253
Stratego 250EC	gal		\$241
Sulfur 6L	gal		\$10
Super Tin 80WP	lb		\$27.00
Tanos DF	lb		\$45.40
Tilt	gal	\$112	\$135/375
Topsin 4.5 FL	gal		\$76.00
Twinline	gal		\$269
Ultra Flourish	gal		\$325

Table 11. Fumigant/Nematicide prices for southern Idaho, 2015.

FUMIGANTS:	Unit	Southern Idaho
Metam CLR (42%)	gal	\$5.65
Metam CLR (54%)	gal	\$7.50
Sectagon-42	gal	\$6.05
Sectagon-K54	gal	\$8.35
Telone II	gal	\$16.35
Telone C17	gal	
Vapam KL 42%	gal	\$5.95
K-Pam 54%	gal	\$8.30

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

Table 12. Insecticide, miticide and nematicide prices for northern and southern Idaho, 2015.

Product	Unit	Northern Idaho	Southern Idaho
Admire Pro	fl oz		\$1.50
Agri-Mek .15EC	fl oz		
Agri-Mek .75SC	fl oz		\$2.60
Asana XL	gal	\$112	\$98
Assail 70WP	oz		\$16.25
Athena	fl oz		\$1.10
AZA Direct	gal		\$245
Baythroid XL	gal		\$280
Beleaf 50SG	lb		\$158
Brigadier	gal		\$173
Capture LFR	gal	\$338	\$315
Comite (6.5 lb)	gal		\$88.15
Counter 20G L-N-L	lb		\$3.95
Cruiser 5 FS	gal		\$675
Cruiser Maxx – Potato	gal		\$719
Dibrom 8 E	gal		\$110
Dimethoate 4EC	gal	\$67.20	\$47.50
Dimethoate 400	gal		\$68.00
Endigo ZC	gal		\$214
Epi-Mek	gal		\$66.00
Fulfill WDG	oz		\$6.25
Hero	gal		\$201
Imidan 70WP	lb		\$13.25
Lannate LV	gal	\$15.41	\$86.00

Table 12. Insecticide, miticide and nematicide prices for northern & southern Idaho, 2015. (cont.)

<u>Product</u>	<u>Unit</u>	<u>Northern Idaho</u>	<u>Southern Idaho</u>
Leverage 2.7	gal		
Leverage 360	gal		\$289
Lorsban 4 E	gal		\$45.00
Lorsban 15G	lb		\$1.80
Malathion 5 EC	gal		\$38.00
Malathion 57EC	gal		\$53.55
Mocap 15G	lb		\$3.25
Mocap 6 EC	gal		\$125
Monitor 4	gal		\$100
Movento	gal		\$959
Mustang Max	gal		\$189
Mustang Maxx	gal		\$149
Oberon 2SC	gal		
Oberon 4SC	gal		\$458
Onager	gal		\$344
Platinum 75SG	oz		\$5.05
Pounce	gal		
Radiant SC	gal		\$792
Reaper 0.15EC	gal		\$90.00
Regent 4SC	fl oz		\$8.00
Rimon .83 EC	gal		\$228
Sevin 4F	gal		
Sevin XLR	gal		\$66.00
Success (2 lb ai Spinosad)	gal		\$849
Temik 15G (L-N-L)	lb		
Thimet 20G (L-N-L)	lb		\$3.50
Tombstone	gal		\$182
Venom	lb		
Vydate C-L-V (3.77 lb)	gal		\$118
Vydate L (2 lb)	gal		\$102
Warrior w/Zeon Tech.	gal		
Warrior II w/ Zeon Tech.	gal		\$369

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, 2014.

	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<u>Forage Crops:</u>					
Alfalfa (private) – pre-inoculated	lb		\$3.25-4.75	\$3.35-4.65	\$2.75-4.90
Alfalfa (public) – pre-inoculated	lb		\$2.40-4.00	\$2.50-3.45	\$2.65-4.00
Alfalfa – Roundup Ready	lb	\$7.90	\$7.00-7.75		\$6.75-7.75
Alfalfa (Ladek)	lb	\$4.35			
Alfalfa (Vernal)	lb				
Beardless Forage Barley, Spring	lb		\$.25-.35	\$.25-.36	\$.26-.35
Triticale	lb		\$0.31-.45	\$.28-.35	\$.40-.45
<u>Grasses & Clover</u>					
Blue Grass, turf (common)	lb				
Blue Grass (pasture)	lb				
Brome (Smooth)	lb		\$1.60-4.00	\$1.50-5.00	\$2.75-5.75
Brome (Meadow)	lb		\$3.10-3.80	\$3.10-3.50	\$2.75-4.50
Crested Wheat Grass	lb		\$7.75	\$6.75-8.00	\$6.75-8.00
Clover: Red	lb		\$1.70-3.20	\$2.00-2.45	\$2.25-3.00
Clover: White	lb		\$3.00-4.45	\$2.80-4.25	\$3.20-4.50
Clover: Yellow	lb				\$2.75
Fescue, Tall	lb				
Orchard Grass	lb		\$1.50-2.75	\$1.55-2.60	\$1.85-3.00
Pasture Mix – Irrigated	lb		\$1.85-2.75	\$1.90-2.95	\$2.00-3.00
Pasture Mix - Dryland	lb				\$2.00-3.40
Rye Grass - Annual	lb		\$1.40-2.20	\$1.50-2.20	\$1.70-2.25
Rye Grass – Perennial	lb				
Tall Fescue	lb				
Timothy Grass	lb		\$2.25	\$2.25	\$2.25
<u>Legumes</u>					
Austrian Winter Peas	lb		\$0.40-.46	\$.38-.46	\$0.38-.42
Chick Peas (Garbanzo Beans) - Large	lb	\$0.60			
Chick Peas (Garbanzo Beans) - Small	lb				
Edible Dry Spring Peas, standard treatment	cwt				
**Edible Dry Spring Peas, Cruiser + nutr.	cwt	\$38.00			
Lentils – Pardina	cwt	\$41.00			

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

**Price includes Cruiser in addition to the standard seed treatment, plus a nutrient package.

Table 13. Seed prices, most prices include treatment, by region, 2014 (cont.).

	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
<u>Oil Seeds:</u>					
Canola, spring, GMO	lb	\$11.80			
Canola, spring, non-GMO	lb				
Canola, winter, Roundup Ready	lb				
Canola, winter, non-GMO	lb				
Flax	lb				
Rapeseed, winter	lb	\$1.95			
<u>Grain: **</u>					
Feed Barley, Spring	lb	\$0.31	\$0.25-.30	\$.23 - .28	\$.22-.26
Feed Barley, Winter	lb			\$.24 - .29	
Malting Barley, Spring	lb			\$.27- .31	\$.25-.30
Malting Barley, Winter	lb			\$.26-.30	\$.028-.30
Oats	lb		\$.24-32	\$.24 - .32	\$.25-.32
Wheat: Durum	lb			\$0.26-028	\$0.26–0.28
Wheat: Hard Red Spring	lb	\$0.28		\$.25-.29	\$.24-.29
Wheat: Hard Red Spring – PVPs	lb	\$0.30			
Wheat: Hard White Spring	lb			\$.26 - .28	\$.26-.27
Wheat: Hard White Winter	lb	\$0.29		\$0.28	\$0.28
Wheat: Hard Red Winter	lb	\$0.28	\$.24-.30	\$.24 -.29	\$.23-.29
Wheat: Soft White Spring	lb	\$0.26	\$.24-.28	\$.22 - .28	\$.21-.25
Wheat: Soft White Spring – PVPs	lb	\$0.26			
Wheat: Soft White Spring – Club	lb	\$0.25			
Wheat: Soft White Winter	lb	\$0.23	\$0.24-.25	\$.21 - .26	\$.20-.26
Wheat: Soft White Winter – PVPs	lb	\$0.26			
Wheat: Soft White Winter – Clearfield	lb	\$0.27			
Wheat: Soft White Winter - Club	lb	\$0.27			

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

** Price includes fungicide seed treatment that typically adds 1.5 - 2 cents per pound.

Table 13. Seed prices, most prices include treatment, by region, 2014 (cont.).

	<u>Unit</u>	<u>NI*</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
Corn:					
Corn Seed per bag: (80,000 seed)**					
Conventional	bag			\$145-200	
Roundup Ready Corn2 (RR2)	bag		\$200-250	\$200-250	\$200-225
RR2 + Corn Borer	bag		\$240-265		
RR + Rootworm	bag		\$240-265		
RR2 + Yield Guard VT Triple Pro	bag				\$250-310
Liberty Link (LL)	bag				
LL + Corn Borer	bag				
LL + CB + RW +RR	bag				
Commercial Dry Beans:					
Pintos	cwt		\$55-65	\$55-65	
Pinks	cwt		\$60-70	\$55-60	
Small Reds	cwt		\$60-70	\$55-60	
Light Red Kidney	cwt		\$65-75		
Dark Red Kidney	cwt		\$65-75		
Cranberry	cwt				
Black	cwt		\$70-80		
Onion Seed: 500,000 seeds per pail***					
Cost to Prime Seed	pail		\$100-150		
Fungicide Seed Treatment	pail		\$50-80		
Insecticide Seed Treatment	pail		\$100-120		
Yellow (coated-pelleted) w/ FI Treatment	pail		\$1,250 – 1,400		
White (coated-pelleted) w/ FI Treatment	pail		\$1,300 – \$1,750		
Red (coated-plelleted) w/ FI Treatment	pail		\$1,400 – \$1,800		

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

**Corn seeding rate is typically 30,000 to 40,000 seeds per acre.

***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, 2015.

	<u>Unit</u>	<u>SWI*</u>	<u>SCI*</u>	<u>EI*</u>
Potatoes: FOB Seed Area				
1/ Russet Burbank G-2 (\$11.00)	cwt			\$11.60
1/ Russet Burbank G-3 (\$11.00)	cwt	\$13.15	\$12.65	\$12.10
1/ Russet. Norkotah G-3 (\$13.00)	cwt	\$15.15	\$14.65	\$14.10
1/ Ranger G-2 (\$12.00)	cwt			
1/ Ranger G-3 (\$11.75)	cwt	\$13.90	\$13.40	\$12.85
Cutting Potato Seed	cwt	\$1.70	\$1.70	\$1.70
Treat Potato Seed**	cwt	\$0.50	\$0.50	\$0.50

Sugarbeet Seed: 100,000 seeds/unit

Raw, Coated & Primed: Low end, RR only, high end includes nematode resistance	unit	\$145-200	\$145 - 200	\$145 - 200
- Roundup Ready Technology Fee	unit	\$144	\$144	\$144
Nematode Resistance Fee	unit	\$55	\$55	\$55
Poncho Beta Seed Treatment	unit	\$50	\$50	\$50
-Total Seed Cost: Range***	unit	\$285 - 445	\$285 - 4 45	\$285-445
-Total Seed Cost: Typical***	unit	~\$340 - 350	~\$340 - 350	~\$340 - 350

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

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

*** Price includes technology fee.

1/ Regional seed potato prices include the base price plus regional transportation and handling costs: SWI, SCI, EI-South and EI-North are \$2.15, \$1.65, \$1.10 and \$0.60 respectively. The values shown for EI seed potatoes are for the southern counties (Bannock, Bingham and Power), except for G2 Russet Burbank which is for the seed growing region of the northern counties of eastern Idaho.

Table 14. Fertilizer prices for northern Idaho and southern Idaho, Spring/Summer 2015.

<u>Product</u>	<u>Northern Idaho</u>	<u>Southern Idaho</u>
Nitrogen: Price per ton		
Ammonium Sulfate (20-0-0-24)	\$440	\$348
Urea (46-0-0-0)		\$504
Anhydrous Ammonia (82%) Aqua Ammonia (23%)		
Solution 32 (32-0-0-0) – Liquid		
		\$468
Thio Sul (12-0-0-26) – Liquid		
		\$428
Phosphate: Price per ton		
16-20-0		\$525
11-52-0 (MAP)		\$668
10-34-0 (Liquid)		\$628
11-37-0		\$637
Potash: Price per ton		
Muriate of Potash (0-0-60-0)		\$527
Sulfate of Potash (0-0-50-17)		\$769
Liquid Potash (0-0-13)		\$185
Trace: Price per ton.		
Boron (14%)		\$2,800
Copper Sulfate (25%)		\$7,000
Iron (50%)		
Manganese Sulfate (30-32%)		\$2,800
Zinc Sulfate (36%)		\$2,500
Sulfur – Elemental (90%)	\$560	\$485
Gypsum	\$320	

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,
Spring/Summer 2015 (cont).**

<u>Product</u>	<u>Northern Idaho*</u>	<u>Southern Idaho*</u>
Trace: Price per lb. of element, not product.		
Boron (14%)		\$10.00
Copper Sulfate (25%)		\$14.00
Iron (50%)		\$1.50
Manganese Sulfate (30-32%)		\$4.65
Zinc Sulfate (33-36%)		\$3.45
Sulfur – Elemental (90%)	\$0.53	\$0.27

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