

The World's Largest Open Access Agricultural & Applied Economics Digital Library

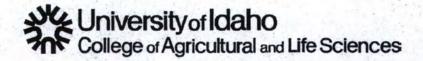
This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
http://ageconsearch.umn.edu
aesearch@umn.edu

Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.



2006-07 Long Range Planning Prices for Idaho Crops & Livestock

by

Paul E. Patterson, C. Wilson Gray and Neil R. Rimbey Agricultural Economics and Rural Sociology Department

All from the University of Idaho Cooperative Extension System

A. E. Extension Series No. 06-03

October 2006

Departmental Working Paper Series

Department of Agricultural Economics and Rural Sociology

College of Agricultural and Life Sciences University of Idaho Moscow, Idaho 83844-2334

2006-07 Long Range Planning Prices for Idaho Crops & Livestock

Prepared by
University of Idaho Extension Agricultural Economists
Paul E. Patterson, C. Wilson Gray and Neil R. Rimbey

Commodity prices can vary significantly within the marketing year as well as between years. Prices for many agricultural commodities tend to be lowest at harvest and strengthen throughout the year as the temporary imbalance between supply and demand changes. Some commodities follow well-established seasonal price patterns. Other commodity prices are less predictable, more volatile and vary significantly from one year to the next as well as throughout the marketing year. Even for a commodity with a well-established seasonal price pattern, the overall price level can vary even though the pattern may remain unchanged. While it is difficult for a single price to characterize an entire marketing year—and may even be misleading—a single price is often needed for planning purposes.

Businesses must plan for both the short term and the long term. The same price will seldom work for for both short range and long range planning purposes. The long range planning prices contained in this publication are based on historical (time-series) data. Short run planning prices would normally be a projected price for the current market year based on the supply and demand situation. While the University of Idaho provided short run planning prices for many years, they were discontinued in 2005.

Historical prices certainly give a much clearer view of the past than of the future. But unless there has been a significant structural change that impacts the commodity's supply or demand, then historical prices provide both a simple and an appropriate estimate for long range planning. Historical data can provide information on expected high, low and average prices. An obvious question is, how many years of data should be used in calculating the average? Our recommendation is that you use at least ten and not more than 20 years.

Idaho's long range planning prices are developed in early fall. Crop prices are found in separate tables for each region of the state: Northern, Southwestern, Southcentral and

Eastern. These correspond to tables 2-5, respectively. There is only one table for livestock prices, Table 6. There are three columns with each crop price table. The middle column shows the 10-year simple average price based on the marketing year for that crop. The left (minimum) and right (maximum) columns found in Tables 2-5 contain the lowest and highest annual prices over the past ten years, respectively. Keep in mind that these are **not** the lowest and highest prices over the past ten years for these commodities. Crop prices correspond to a commodity specific marketing year used by USDA, generally from harvest to harvest, while livestock prices are on a calendar year basis. Certain crops, including silage, hay, straw and contract crops (processing potatoes, sugarbeets and malt barley) do not use 10-year averages.

Short Vs. Long Run

Whether to use the long run or a short run price will depend on the type of analysis. A feasibility study comparing the profitability of alternative crop or livestock enterprises should use the long range planning prices, while a cash flow estimate for the current year would rely on the short-run planning price.

What price should be used on crops that will be harvested in 2007 and sold in the 2007/2008 marketing year? One alternative is to average the long and short run planning prices and use this value. Since prices tend to move toward the historical average, the price for the 2007 crop will likely be between the short run (current price) and long run price, assuming that the short run price is accurate and that no structural changes have occurred in the market that would disrupt the normal supply and demand situation and invalidate the long run prices based on historical data. A more conservative approach to planning is to use the long run planning price for all years but the current one. This second method is preferred particularly when the short range planning price varies significantly from the long range planning price.

Data Sources and Data Problems

While USDA is the primary source of information used to derive Idaho planning prices, a number of non-USDA sources are also used, including expert opinions. USDA data sources include Idaho Agricultural Statistics Service (IASS), National Agricultural Statistics Service (NASS) and Agricultural Market Service (AMS). Unfortunately, USDA does not acquire price data on all crops or on all the different market classes of crops grown in the state. For example, the wheat price published by the IASS is differentiated only as winter and spring. Spring wheat would include both hard red and soft white. But there is a significant difference between the price of these two market classes of wheat, or between the two winter wheat market classes, hard red and soft white. Also, USDA prices are published on a statewide, not a regional basis, which can present a problem when significant regional price variability exists. Price transparency and availability is also a problem for crops grown predominately or exclusively under contract. Data for these crops is often proprietary.

Wheat prices found in this publication are based on Portland prices reported by the Agricultural Marketing Service, USDA. These are adjusted to four Idaho locations using typical price differentials shown in table 1 that reflect transportation and handling costs. The price differential between Portland and various locations in Idaho has changed over time and the price difference within the year has seen wider swings in recent years in part due to the volatile transportation costs. The grain market location for Southwestern Idaho is the Notus/Weiser area, the market location for Southcentral Idaho is the Burley/Filer/Wendell area, the market location for Eastern Idaho is American Falls/Pocatello/Blackfoot area and the market location for Northern Idaho is Lewiston. The price difference between Portland and the different market classes in each region is not the same. Fore example, the average difference between Portland and southeastern Idaho is \$0.75 for soft white, \$0.85 for hard red winter and \$0.90 for hard red spring. There is also some variation in the price differential for the same class of wheat at a given location between the high and low end of prices as shown in the typical price differentials in Table 1.

The price for contract malting barley is calculated using the average of the three most recent contracts base prices for the major malt companies that do business in Idaho. Malt barley contracts in Idaho include both fixed base-price contract for barley meeting

specified grade and quality standards, or a fixed premium over feed barley prices over a period of time and a fixed location. Quality-based incentives are added to the fixed base price for barley exceeding the minimums. Contracts in recent years have increased in complexity and may give the grower several pricing alternatives, ranging from a fixed price, with or without storage compensation, to a prevailing company posted price or the average of these posted prices over a specified period of time. There is typically a minimum price specified with this pricing alternative. The premiums often vary between 2-row and 6-row, by contracting company and even by variety.

The long range average 2-row and 6-row malt barley prices are calculated from the data collected by the Idaho Barley Commission and published in their weekly *Idaho Grain Market Report*. These are more reflective of open market prices. Since 1991 IASS has reported three barley prices in Idaho; a feed price, a malt price and an all barley price. This last price is a composite of the monthly average of feed barley, open malt barley and contract malt barley purchases. The IASS malt barley price has two problems. First, to avoid disclosure, IASS may not always report a monthly price. And second, the IASS malt barley price is not an open- or spot-market price. It includes both open market and contract purchases made during a given month. The 10-year average for the IASS malting barley price series is \$6.35, the low annual average price for the past ten years was \$5.70 and the high annual average price was \$6.95. You can compare these statewide prices to those shown in the regional tables. Feed barley prices use a combination of data from the Idaho Barley Commission's Grain Market Report and market data published by the Idaho Farm Bureau. The prices for corn (grain), oats and canola come from IASS annual state prices.

Dry bean prices come from USDA Agricultural Marketing Service. These are the marketing year averages calculated from weekly grower prices reported in "Bean Market News." This includes garbanzo beans in northern Idaho and the five major market classes grown in southern Idaho: Great Northerns, Pinks, Pintos, Reds and Small Whites. Dry pea prices (Austrian Winter, Green and Yellow) and lentil prices also come from this AMS weekly market report. The composite dry bean price is marketing year average price based on IASS monthly price data. Garbanzo bean

prices for Idaho have been reported for only nine years, so it is an exception to the 10year average, high and low price calculation.

The average, high and low grain corn prices and sugarbeet prices are based on the state average annual price reported by the Idaho Agricultural Statistics Service. Onion prices published by IASS are packout prices and do not represent the price received by the grower. These are converted to a field-run grower price, assuming that the field-run price is roughly one-half the packout price.

IASS monthly price data for fresh and process market potatoes are used to calculate a market year average price for these two open market prices. The contract potato price, however, uses the three most recent base contract prices for Russet Burbank potatoes, adjusted for the five-year quality average. The contract price is for an inweight (field-run) contract that does not include storage.

With no, or in the case of hay no acceptable price series from USDA, hay, straw and corn silage prices come from a variety of different sources that is subjective and can best be described as "experts opinions." These experts include extension specialists, extension educators hay brokers, and producers.

The cost of grazing fees are presented on an AUM (Animal Unit Month) basis or cowcalf basis. An AUM is defined as "a cow or a cow-calf pair, or equivalent grazing for one month." Separate rates are shown for range and pasture land managed by Federal agencies (BLM and Forest Service), the Idaho State Land Board and private landowners. The federal and state grazing fees are formula-based, while the private fee is market-based survey data. The federal AUM price is the rate charged by the Forest Service and BLM and is derived using the PRIA (Public Range Improvement Act) formula. The AUM price on state lands in Idaho is set annually by the Land Board and is based upon a PRIA-like formula established in 1994. The price per AUM for private grazing land is based on USDA-NASS data for Idaho reported "Agricultural Prices." As with other crop prices presented in tables 2-5, the long range forage charges are based on the most recent ten years of historical data.

October 2006 5

Livestock Price Estimates

The long range planning prices found in Table 6 are based on 10-year averages. Livestock prices for the past four years are also provided as a reference. While livestock prices are statewide estimates, they are most reflective of Southern Idaho.

For Additional Information

The commodity planning prices are presented as a guideline to assist farmers, ranchers, lenders and agri-businesses in planning. Local prices will vary from these regional prices.

Your planning efforts will be enhanced if you monitor the current market outlook situation. Use new information to modify your plans as necessary. Some sources of current outlook for those with access to the Internet, include:

 Reports published by Agricultural Marketing Service, Economic Research Service, World Agriculture Outlook Board, and National Agricultural Statistics Service, all part of USDA, are available at the following URL:

http://usda.mannlib.comell.edu/MannUsda/homepage.do

 Market News reports from Agricultural Market Service, USDA, are available at the following URL:

http://www.ams.usda.gov/marketnews.htm

 An electronic version of the Livestock Monitor and other industry related information is available from the Livestock Marketing Information Center web site:

http://www.lmic.info/

 Jim Hilker's Market Outlook and Probabilistic Forecasts for Grain and Livestock, Michigan State University:

http://www.msu.edu/user/hilker/

 Kim Anderson's Crop Marketing and Risk Management, Oklahoma State University:

http://agecon.okstate.edu/anderson/

Other information of interest and many agricultural links can be found at:

http://www.ag.uidaho.edu/aers

Click on Resources and follow the links.

Table 1. Wheat price differentials between Portland and Idaho: by region and wheat market class.

Region	Minimum	Average	Maximum
		Soft White Wheat	1/4
Southeast	\$.85	\$.75	\$.95
Southcentral	\$.90	\$.85	\$1.00
Southwest	\$.75	\$.70	\$.80
North	\$.30	\$.25	\$.25
		Hard Red Winter Wheat	
Southeast	\$.85	\$.85	\$.70
Southcentral	\$.90	\$.90	\$.75
	nto a si A di Sina di	Hard Red Spring Wheat	
Southeast	\$.80	\$.90	\$1.10
Southcentral	\$0.90	\$.95	\$1.10
Southwest	\$.85	\$.85	\$.95

Note: These values are subtracted from the Portland 10-year average price, 10-year maximum monthly price and 10-year minimum monthly price to derive the Idaho regional wheat prices.

Table 2. Northern Idaho long range marketing year planning prices for 2006/07.

Crop	Units	10-Year Annual Minimum	10-Year Annual	10-Year Annual Maximum
Стор	Office	WIIIIIIIIIII	Average	IVIAXIIIIUIII
Barley, Feed	cwt	\$ 3.40	\$ 4.35	\$ 5.05
Barley, 2-Row Malt	cwt	\$ 4.15	\$ 5.20	\$ 6.30
Barley, 6-Row Malt	cwt	\$ 4.50	\$ 5.75	\$7.10
Barley, Malt (contract)*	cwt	\$6.25	\$ 6.50	\$6.75
Oats (32 lb bushel)	ton	\$65	\$90	\$125
Canola	cwt	\$7.30	\$10.30	\$13.70
Dry Beans				
Garbanzos *	cwt	\$16.05	\$22.00	\$27.90
Dry Peas:				
Austrian Winter	cwt	\$ 6.45	\$ 9.55	\$13.00
Green	cwt	\$ 5.55	\$ 7.35	\$10.65
Yellow	cwt	\$ 5.05	\$ 6.95	\$10.60
entils	cwt	\$ 9.55	\$13.00	\$17.20
Wheat:				
Hard Red Spring (14%)	bu			
Hard Red Winter (11%)	bu		-	
Soft White	bu	\$ 2.70	\$ 3.35	\$ 4.20
orage				gre e
Alfalfa Feeder Hay*	ton	na	\$75	na
Grass Hay*	ton		\$65	
Straw*	ton		\$20-35	
Private Leased Forage	AUM	\$10.20	\$11.35	\$12.50
Private Leased Forage	Cow-Calf	\$12.20	\$13.35	\$14.60
Range (state)	AUM	\$ 4.16	\$ 5.02	\$ 6.02
Range (Federal)	AUM	\$ 1.35	\$ 1.43	\$ 1.79

Prices are for crops sold on the open market, unless otherwise specified; i.e. contract.

Contract crop prices typically represent contract prices over the past 3-5 years, not a 10-year average. * Does not use 10-year price history. See written discussion.

Table 3. Southwestern Idaho long range marketing year planning prices for 2004/05.

Crop	Units	10-Year Annual Minimum	10-Year Annual Average	10-Year Annual Maximum
Alfalfa Seed	lb	\$1.15	\$1.25	\$1.40
Barley, Feed	cwt	\$ 3.70	\$ 4.55	\$ 5.80
Corn, Grain	bu	\$ 2.35	\$ 2.80	\$ 3.25
Dry Beans (composite)	cwt	\$15.30	\$20.05	\$25.10
Great Northerns	cwt	\$16.10	\$18.05	\$20.50
Pinks	cwt	\$14.15	\$20.15	\$25.40
Pintos	cwt	\$15.60	\$20.05	\$28.50
Small Reds	cwt	\$14.45	\$20.60	\$28.60
Small Whites	cwt	\$17.00	\$21.00	\$28.00
Potatoes (Russet Burbank)				
Process Contract*	cwt	\$ 4.25	\$ 4.85	\$ 5.25
Fresh	cwt	\$ 2.50	\$ 4.60	\$ 8.35
Process.	cwt	\$ 3.80	\$ 4.75	\$ 5.60
Onions	Cwt	\$2.70	\$4.95	\$6.50
Sugarbeets (contract)	ton	\$35	\$39	\$45
Wheat:				
Hard Red Spring (14%)	bu	\$ 3.15	\$ 3.75	\$ 4.30
Soft White	bu	\$ 2.25	\$ 2.90	\$ 3.65
Forage				
Alfalfa Hay:	to the second	J4 280	the years on the	Maria Part
Feeder*	ton	\$60	\$75	\$85
Dairy*	ton	\$85	\$95	\$105
Grass Hay*	ton	\$50	\$75	\$85
Corn Silage* (in the pit)	ton	\$18	\$24-26	\$27
Straw*	ton	\$20	\$40-45	\$55
Private Leased Forage	AUM	\$10.20	\$11.35	\$12.50
Private Leased Forage	Cow-Calf	\$12.20	\$13.35	\$14.60
Range (state land)	AUM	\$ 4.16	\$ 5.02	\$ 6.02
Range (Federal land)	AUM	\$ 1.35	\$ 1.43	\$ 1.79

Prices are for crops sold on the open market, unless otherwise specified; i.e. contract.

Contract crop prices typically represent contract prices over the past 3-5 years, not a 10-year average.

^{*} Field Delivery. Does not use 10-year price history. See written discussion.

Table 4. Southcentral Idaho long range marketing year planning prices for 2004/05.

Crop	Units	10-Year Annual Minimum	10-Year Annual Average	10-Year Annual Maximum
Alfalfa Seed	lb	\$1.15	\$1.25	\$1.40
Barley, Feed	cwt	\$ 3.65	\$ 4.50	\$ 5.75
Barley, 2-Row Malt	cwt	\$	\$	\$
Barley, 6-Row Malt	cwt	\$	\$	\$
Barley, Malt (contract)*	cwt	\$6.25	\$ 6.50	\$6.75
Corn, Grain	bu	\$ 2.35	\$ 2.80	\$ 3.25
Dry Beans (composite)	cwt	\$15.30	\$20.05	\$25.10
Great Northerns	cwt	\$16.10	\$18.05	\$20.50
Pinks	cwt	\$14.15	\$20.15	\$25.40
Pintos	cwt	\$15.60	\$20.05	\$28.50
Small Reds	cwt	\$14.45	\$20.60	\$28.60
Small Whites	cwt	\$17.00	\$21.00	\$28.00
Potatoes (Russet Burbank):				
Process Contract *	cwt	\$ 4.25	\$ 4.85	\$ 5.25
Fresh	cwt	\$ 2.50	\$ 4.60	\$ 8.35
Process.	cwt	\$ 3.80	\$ 4.75	\$ 5.60
Sugarbeets (contract)	ton	\$35	\$39	\$45
Wheat:				
Hard Red Spring (14%)	bu	\$ 3.10	\$ 3.65	\$ 4.15
Hard Red Winter (11%)	bu	\$ 2.25	\$ 3.15	\$ 4.25
Soft White	bu	\$ 2.10	\$ 2.75	\$ 3.45
Forage				
Alfalfa Hay:				- V - W -
Feeder*	ton	\$60	\$75	\$80
Dairy*	ton	\$85	\$95	\$105
Grass Hay*	ton	\$50	\$70	\$80
Corn Silage* (in the pit)	ton	\$18	\$24-26	\$27
Straw*	ton	\$20	\$30-45	\$50
Private Leased Forage	AUM	\$10.20	\$11.35	\$12.50
Private Leased Forage	Cow-Calf	\$12.20	\$13.35	\$14.60
Range (state land)	AUM	\$ 4.16	\$ 5.02	\$ 6.02
Range (Federal land)	AUM	\$ 1.35	\$ 1.43	\$ 1.79

Prices are for crops sold on the open market, unless otherwise specified; i.e. contract.

Contract crop prices typically represent contract prices over the past 3-5 years, not a 10-year average.

* Field delivery. Does not use 10-year price history. See written discussion.

Table 5. Eastern Idaho long range marketing year planning prices for 2004/05.

Сгор	Units	10-Year Annual Minimum	10-Year Annual Average	10-Year Annual Maximum
Barley, Feed	cwt	\$ 3.45	\$ 4.30	\$ 5.55
Barley, 2-Row Malt	cwt	\$ 4.65	\$ 5.50	\$ 6.70
Barley, 6-Row Malt	cwt	\$ 3.65	\$ 5.40	\$ 6.80
Barley, Malt (contract)*	cwt	\$6.25	\$ 6.50	\$6.75
Canola	cwt	\$7.30	\$10.30	\$13.70
Potatoes (Russet Burbank)):	4 4		
Proc. Contract	cwt	\$ 4.25	\$ 4.85	\$ 5.25
Fresh	cwt	\$ 2.50	\$ 4.60	\$ 8.35
Process.	cwt	\$ 3.80	\$ 4.75	\$ 5.60
Seed - G2 *	cwt	\$ 4.00	\$ 7.50	\$ 10.00
Seed - G3 *	cwt	\$ 3.00	\$ 6.50	\$ 9.00
Sugarbeets (contract)	ton	\$36	\$40	\$46
Wheat:				
Hard Red Spring (14%)	bu	\$ 3.20	\$ 3.70	\$ 4.15
Hard Red Winter (11%)	bu	\$ 2.30	\$ 3.20	\$ 4.30
Soft White	bu	\$ 2.15	\$ 2.85	\$ 3.50
Forage		15-		
Alfalfa Hay:				
Feeder*	ton	\$60	\$70	\$80
Dairy*	ton	\$80	\$90	\$100
Grass Hay*	ton	\$50	\$65	\$75
Corn Silage* (in the pit)	ton	\$18	\$22-24	\$26
Straw*	ton	\$20	\$25-40	\$45
Private Leased Forage	AUM	\$10.20	\$11.35	\$12.50
Private Leased Forage	Cow-Calf	\$12.20	\$13.35	\$14.60
Range (state land)	AUM	\$ 4.16	\$ 5.02	\$ 6.02
Range (Federal land)	AUM	\$ 1.35	\$ 1.43	\$ 1.79

Prices are for crops sold on the open market, unless otherwise specified; i.e. contract.

Contract crop prices typically represent contract prices over the past 3-5 years, not a 10-year average. * Field delivery. Does not use 10-year price history. See written discussion.

Table 6. Historic and long range planning prices for PNW livestock.

		C	alendar	Year Ave	erage	
	Unit	2003	2004	2005	2006-р	10- Year Ave.
Choice Steers 11 - 1300# 65% CH*	cwt	83.30	84.81	87.80	85.00	72.62
Steers 8-900# *	cwt	81.71	93.92	99.16	97.00	86.61
Steers 7-800# *	cwt	84.63	98.26	104.19	103.00	90.32
Steers 6-700# *	cwt	89.65	104.43	113.13	114.00	95.5
Steers 5-600# *	cwt	94.61	114.93	122.49	123.00	102.47
Steers 4-500# *	cwt	102.38	121.97	133.58	134.00	111.07
Utility Cows 85% Lean **	cwt	48.31	53.79	57.49	52.00	44.16
Slaughter Lambs (125#)*	cwt	182.43	187.94	203.78	167.00	160.39
Feeder Lambs (70-90#)*	cwt	108.28	119.75	130.10	106.00	87.93
Sheep	cwt	33.70	40.40	42.00	35.00	31.53
Wool (Clean, USDA 56's)	lb.	1.48	1.50	1.14	1.04	1.15
Wool (Grease, US Farm Price)	lb.	0.73	0.80	0.71	0.65	0.64
Milk, Class III	cwt	11.42	15.39	14.05	11.63	12.62
Cheese, 40# Block, CME	lb.	1.3172	1.6492	1.5052	1.2300	1.3950

p = preliminary; * heifers will be 4 to 10 cents under steers in the same wt. class; ** bulls will be 4 to 6 cents over utility cows.

Slaughter lambs are dressed-weight basis; feeder lambs are live weight basis. Historic data from USDA-IASS and USDA-AMS.

					-	
	1					

	34.3	the se		miletine re
+ + = =			-A.F	diameters.