# **U.S. Egg Cost of Production and Prices**

OCTOBER 8, 2015



Compiled by Maro Ibarburu

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American Egg Board

The Egg Industry Center Market Reports & Industry Analysis are compiled in the memory of their creator, Don D. Bell, Poultry Extension Specialist Emeritus - UC Davis.

REPORT NOTE: This report estimates the average layer feed price and cost of production in six different U.S. regions as outlined on the following map. It also reports the EIC projected prices of eggs.

This report uses the corn and soybean meal prices reported by Feedstuffs weekly newspaper.

Monthly corn and soybean prices for each city are estimated as the simple average of the weekly prices for each month.

Monthly corn and soybean prices for each region are estimated as the simple average of prices for the cities in each region.

The Northeast region price is the simple average of the prices for Buffalo and Boston

• The Southeast region price is the simple average of the prices for Atlanta and Fayetteville (NC)

• The Midwest region price is the simple average of the prices for Chicago and Minneapolis

• The South Central region price is the simple average of the prices for Ft. Worth, Kansas City and Memphis

• The California and Northwest region prices are the simple average of the prices for Los Angeles, San Francisco and Portland

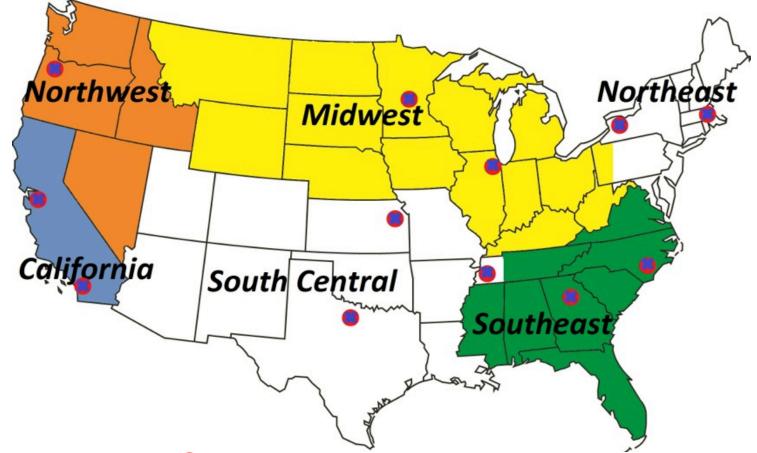
• The U.S. price is the simple average of the prices for all the regions listed above (except California)

The average feed price is based on a diet consisting of 67% corn, 22% soybean meal, 8% limestone and 3% other ingredients.

The cost of production was adjusted from last year based on producer surveys. There is not enough information to separate costs by region other than using the differences in the feed ingredient prices.

Pullet cost are adjusted by region based on the average feed price for the month, assuming all the other costs are similar between regic Feed conversion is variable depending on the month. The labor, building and equipment, interest and miscellaneous costs are assumed to be 17.15 (cents/dozen) for all regions (except California) and months.

# Map of U.S. Regions and the location of corn and soybean meal price information used in this report



Note: The red dots with blue x's ( 6) mark the cities associated with monthly corn and SBM prices.



# Highlights and comparison with previous month and previous year. Prices and Percent Changes

## Difference with respect to September last year (2015 vs. 2014).

Corn Pr	ice (\$/ton)	SBM Pric	ce (\$/ton)	Feed Co	st (\$/ton)	Cost of Prod	(cents/doz.)	Egg Price (	(cents/doz.)
+1.76	+1.1%	-222.06	-37.6%	-49.58	-18.7%	-9.16	-12.9%	+84.75	+100.0%

In September, corn prices were \$1.76/ton 1.1%) higher than in the previous year. Soybean Meal prices were \$222.06/ton lower than September last year (this is the largest yearly drop for the period between January 2000 and today)

These changes in prices resulted in a \$49.58/ton (18.7%) lower cost of feed and 9.16 cents/doz. (12.9%) lower cost of production than September last year.

The September 2015 egg price paid to producers was 84.75 cents/doz. (100.0%) higher than in September 2014.

## Difference with respect to the previous month this year (September 2015 vs. August 2015).

Corn Pric	e (\$/ton)	SBM Pric	ce (\$/ton)	Feed Co	Cost (\$/ton) Cost of Prod (cents/doz.		(cents/doz.)	Egg Price (cents/doz.)		
-2.02	-1.3%	-28.69	-7.2%	-7.67	-3.4%	-1.42	-2.2%	-35.00	-17.1%	

The September corn price was \$2.02/ton (1.3%) lower than the previous month. Soybean Meal prices were \$28.69/ton (7.2%) lower.

Changes in prices resulted in a \$7.67/ton (3.4%) lower cost of feed and 1.42 cents/doz. (2.2%) lower cost of production than previous month.

The September 2015 egg price paid to producers was 35.00 cents/doz. (17.1%) lower than the previous month.



#### CODN DDICE BY DECION (\$/top) 2015

CORN PRICE BY	REGION (\$/ton)	- 2015				TABLE 1
Month	Southeast	Northeast	Midwest	South Central	Northwest	5-Region avg
Jan	221.88	153.89	133.62	146.96	196.20	170.51
Feb	207.46	148.87	132.86	145.29	190.02	164.90
Mar	210.21	147.52	132.68	149.13	189.68	165.84
Apr	207.05	149.87	133.75	146.57	186.94	164.84
May	205.02	130.02	131.38	141.51	181.92	157.97
Jun	198.53	144.91	128.11	139.94	197.86	161.87
Jul	203.75	158.89	135.67	156.10	198.97	170.68
Aug	186.00	149.31	131.54	152.92	182.45	160.44
Sep	192.86	152.74	127.41	137.20	181.91	158.42
Oct						
Nov						
Dec						
Month Avg.	203.64	148.45	131.89	146.18	189.55	163.94
legion/US avg.	1.24	0.91	0.80	0.89	1.16	(1.00)

Source: Feedstuffs magazine

#### SOYBEAN MEAL PRICE BY REGION (\$/ton) - 2015

OUT DEAN MIERE		$O((\psi/(0))) = 2010$	/			
Month	Southeast	Northeast	Midwest	South Central	Northwest	5-Region avg.
Jan	495.00	409.82	386.63	387.09	434.18	422.54
Feb	418.25	389.43	420.75	383.23	403.49	403.03
Mar	445.40	393.07	356.27	357.46	398.22	390.08
Apr	423.75	398.23	331.81	335.64	374.20	372.73
May	411.75	360.63	319.80	329.24	368.26	357.93
Jun	404.90	378.00	328.20	337.61	373.84	364.51
Jul	459.25	409.25	373.25	375.65	420.02	407.48
Aug	472.20	390.70	357.00	362.53	400.93	396.67
Sep	425.00	359.75	335.35	341.98	377.81	367.98
Oct						
Nov						
Dec						
9 Month Avg.	439.50	387.65	356.56	356.71	394.55	387.00
Region/US avg.	1.14	1.00	0.92	0.92	1.02	(1.00)

Source: Feedstuffs magazine

Notes:

Northeast prices are estimated as the simple average of Buffalo and Boston

Southeast prices are estimated as the simple average of Atlanta and Fayetteville

South Central prices are estimated as the simple average of Ft. Worth, Kansas City and Memphis

Midwest prices are estimated as the simple average of Chicago and Minneapolis

Northwest and California prices are estimated as the simple average of Los Angeles, San Francisco and Portland

Note: "5-Region avg" is the simple average of the NE, SE, SC, MW, and NW regions.



TABLE 2

TABLE 4

#### ESTIMATED LAYER FEED COST BY REGION (\$/ton) - 2015

ESTIMATED LAY	STIMATED LAYER FEED COST BY REGION (\$/ton) - 2015									
Month	Southeast	Northeast	Midwest	South Central	Northwest	5-Region avg.				
Jan	285.66	221.37	202.68	211.72	255.08	235.30				
Feb	259.11	213.52	209.68	209.76	244.18	227.25				
Mar	266.93	213.41	195.37	206.66	242.79	225.03				
Apr	260.05	216.12	190.71	200.14	235.67	220.54				
May	256.05	194.55	186.48	195.35	231.00	212.69				
Jun	250.19	208.35	186.14	196.13	242.91	216.74				
Jul	265.65	224.59	201.11	215.33	253.82	232.10				
Aug	256.60	214.09	194.77	210.31	238.54	222.86				
Sep	250.81	209.58	187.24	195.26	233.10	215.20				
Oct										
Nov										
Dec										
9 Month Avg.	261.23	212.84	194.91	204.52	241.90	223.08				
Region/US avg.	1.17	0.95	0.87	0.92	1.08	(1.00)				

Source: Egg Industry Center. Estimated based on corn and soybean meal prices reported by Feedstuffs magazine and all other costs total \$28.1/ton.

#### Assumptions:

		Transport			
				Other	
	Corn	SBM	Calcium*	ingredients*	and Milling
Percent	67%	22%	8%	3%	Costs*
\$/Ton	variable	variable	4.6	12.6	10.9

\* These are standardized costs

## ESTIMATED 19-WEEK PULLET COSTS BY REGION (\$/bird) - 2015

LOTIMATED 15-W									
Month	Southeast	Northeast	Midwest	South Central	Northwest	5-Region avg.			
Jan	4.29	3.81	3.67	3.74	4.06	3.92			
Feb	4.09	3.75	3.73	3.73	3.98	3.86			
Mar	4.15	3.75	3.62	3.70	3.97	3.84			
Apr	4.10	3.77	3.59	3.66	3.92	3.81			
May	4.07	3.61	3.55	3.62	3.88	3.75			
Jun	4.03	3.72	3.55	3.63	3.97	3.78			
Jul	4.14	3.84	3.66	3.77	4.05	3.89			
Aug	4.07	3.76	3.62	3.73	3.94	3.82			
Sep	4.03	3.73	3.56	3.62	3.90	3.77			
Oct									
Nov									
Dec									
9 Month Avg.	4.11	3.75	3.62	3.69	3.97	3.83			
Region/US avg.	1.07	0.98	0.95	0.96	1.04	(1.00)			

Source: Egg Industry Center

Assumes: 13.9 pounds of feed consumed per pullet at variable prices to grow a pullet to 19 weeks of age (for all regions),

pullet feed cost 7% more expensive than layers cost (because of higher nutrient requirements);

chick cost = 77 cents/baby chick, moving cost = 16 cents/pullet, and other costs = 124 cents/pullet (for all regions)

Note: "5-Region avg" is the simple average of the NE, SE, SC, MW, and NW regions.



ESTIMATED PULL	ET COST BY R	EGION under 2-c	ycle systems (	Cents/doz.) - 2015	_	TABLE 5
Month	Southeast	Northeast	Midwest	South Central	Northwest	5-Region avg.
Jan	9.64	8.57	8.26	8.41	9.13	8.80
Feb	9.20	8.44	8.37	8.37	8.95	8.67
Mar	9.33	8.44	8.13	8.32	8.93	8.63
Apr	9.21	8.48	8.06	8.21	8.81	8.55
May	9.15	8.12	7.99	8.13	8.73	8.42
Jun	9.05	8.35	7.98	8.15	8.93	8.49
Jul	9.31	8.62	8.23	8.47	9.11	8.75
Aug	9.16	8.45	8.12	8.38	8.85	8.59
Sep	9.06	8.37	8.00	8.13	8.76	8.46
Oct						
Nov						
Dec						
Month Avg.	9.23	8.43	8.13	8.29	8.91	8.60
Region/US avg.	1.07	0.98	0.95	0.96	1.04	(1.00)

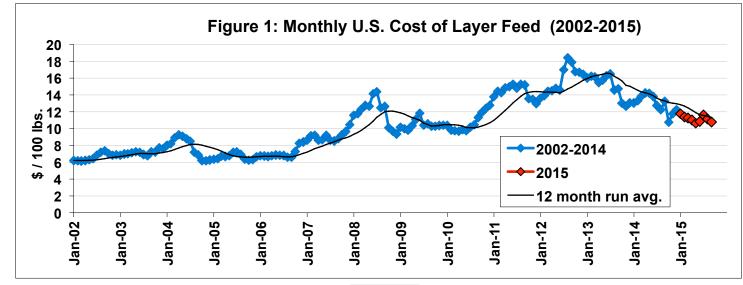
Source: Egg Industry Center

Assumes 44.5 dozen eggs per pullet placed under 2-cycle systems

## ESTIMATED FEED COST BY REGION under 2-cycle systems (Cents/doz.) - 2015

				/		
Month	Southeast	Northeast	Midwest	South Central	Northwest	5-Region avg
Jan	47.99	37.19	34.05	35.57	42.85	39.53
Feb	43.53	35.87	35.23	35.24	41.02	38.18
Mar	44.84	35.85	32.82	34.72	40.79	37.81
Apr	43.69	36.31	32.04	33.62	39.59	37.05
May	43.02	32.68	31.33	32.82	38.81	35.73
Jun	42.03	35.00	31.27	32.95	40.81	36.41
Jul	44.63	37.73	33.79	36.17	42.64	38.99
Aug	43.11	35.97	32.72	35.33	40.08	37.44
Sep	42.14	35.21	31.46	32.80	39.16	36.15
Oct						
Nov						
Dec						
Month Avg.	43.89	35.76	32.74	34.36	40.64	37.48
Region/US avg.	1.17	0.95	0.87	0.92	1.08	(1.00)

Estimated based on feed costs (\$/ton) shown in table 3, assuming 3.36 lbs of feed/dozen eggs



Note: "5-Region avg" is the simple average of the NE, SE, SC, MW, and NW regions.



TABLE 6

Southeast	Northeast					
	Northeast	Midwest	South Central	Northwest	California	of 5 Regions
74.78	62.91	59.46	61.13	69.13	81.68	65.48
69.88	61.46	60.75	60.76	67.12	79.66	63.99
71.32	61.44	58.11	60.19	66.86	79.41	63.58
70.05	61.94	57.25	58.99	65.55	78.09	62.75
69.31	57.95	56.47	58.10	64.69	77.23	61.30
68.23	60.50	56.40	58.25	66.89	79.43	62.05
71.08	63.50	59.17	61.79	68.90	81.44	64.89
69.41	61.56	58.00	60.87	66.08	78.62	63.18
68.35	60.73	56.61	58.09	65.07	77.62	61.77
70.27	61.33	58.02	59.80	66.70	79.24	63.22
1.11	0.97	0.92	0.95	1.05	1.25	(1.00)
	69.88 71.32 70.05 69.31 68.23 71.08 69.41 68.35 70.27	69.88       61.46         71.32       61.44         70.05       61.94         69.31       57.95         68.23       60.50         71.08       63.50         69.41       61.56         68.35       60.73	69.88         61.46         60.75           71.32         61.44         58.11           70.05         61.94         57.25           69.31         57.95         56.47           68.23         60.50         56.40           71.08         63.50         59.17           69.41         61.56         58.00           68.35         60.73         56.61           70.27           61.33         58.02           1.11         0.97         0.92	69.88         61.46         60.75         60.76           71.32         61.44         58.11         60.19           70.05         61.94         57.25         58.99           69.31         57.95         56.47         58.10           68.23         60.50         56.40         58.25           71.08         63.50         59.17         61.79           69.41         61.56         58.00         60.87           68.35         60.73         56.61         58.09           70.27         61.33         58.02         59.80           1.11         0.97         0.92         0.95	69.88         61.46         60.75         60.76         67.12           71.32         61.44         58.11         60.19         66.86           70.05         61.94         57.25         58.99         65.55           69.31         57.95         56.47         58.10         64.69           68.23         60.50         56.40         58.25         66.89           71.08         63.50         59.17         61.79         68.90           69.41         61.56         58.00         60.87         66.08           68.35         60.73         56.61         58.09         65.07	69.88         61.46         60.75         60.76         67.12         79.66           71.32         61.44         58.11         60.19         66.86         79.41           70.05         61.94         57.25         58.99         65.55         78.09           69.31         57.95         56.47         58.10         64.69         77.23           68.23         60.50         56.40         58.25         66.89         79.43           71.08         63.50         59.17         61.79         68.90         81.44           69.41         61.56         58.00         60.87         66.08         78.62           68.35         60.73         56.61         58.09         65.07         77.62           70.27         61.33         58.02         59.80         66.70         79.24           1.11         0.97         0.92         0.95         1.05         1.25

Source: Egg Industry Center.

\* These estimations are based on feed costs (cents/dozen) shown in table 6, pullet costs (cents/dozen) shown in table 5.

Building and equipment, labor, interest and miscellaneous costs are assumed to be 17.15 cents/dozen (except for CA, please see below) Some assumptions were made in the absence of enough information of cost of production under the new California regulations.

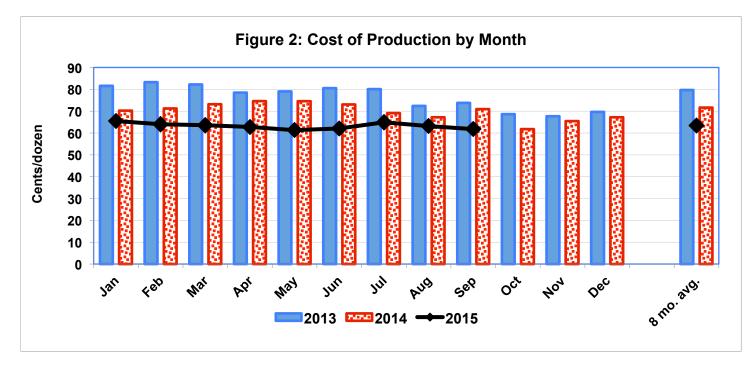
These assumptions that are a clear simplification of the changes in different costs are:

1) the feed efficiency and pullet cost are similar between California and the rest of the country

2) the "building and equipment, labor, interest and miscellaneous" costs are assumed to increase proportionally to the space per layer

increase or 73% higher (116 in<sup>2</sup>/67 in<sup>2</sup>) than on the other regions which put them at at 29.69 cents/dozen (17.15 \* 116/67)

These estimations are based on standard costs for conventionally produced eggs. Higher labor costs might exist in certain regions. Newer, more efficient farms, would probably use less labor but have higher equipment costs.



Note: "5-Region avg" is the simple average of the NE, SE, SC, MW, and NE regions. California is not considered for the average because of the different production requirements.



.S. ESTIMATED	FARM EGG P	RICE AND RE	TAIL EGG PRI	CE (cents/Doz)				TABLE				
	Farm Pric	e for All White	e Egg Sizes (c	ents/Doz)	Retail Pr	ice for Large V	Vhite Eggs (ce	cents/Doz)				
month	2013	2014	2015	Change	2013	2014	2015	Change				
Jan	92.3	91.2	88.2	-3.0	193.3	200.8	211.3	10.5				
Feb	80.1	111.3	106.0	-5.3	196.5	199.8	208.8	9.0				
Mar	93.5	110.9	124.1	13.1	192.5	206.1	213.3	7.2				
Apr	67.7	111.0	80.4	-30.6	191.8	211.9	206.5	-5.4				
May	83.9	92.6	128.4	35.7	187.0	199.6	196.2	-3.4				
Jun	66.0	85.9	172.1	86.2	185.9	194.8	257.0	62.2				
Jul	76.6	95.2	175.2	80.0	183.3	195.0	257.0	62.0				
Aug	82.2	85.0	204.5	119.5	183.8	197.9	294.3	96.4				
Sep	79.9	84.8	169.5	84.8	189.7	197.0						
Oct	83.3	91.0			192.5	195.1						
Nov	109.3	124.0			192.5	203.2						
Dec	115.1	146.7			202.6	221.0						
Avg.	80.2	96.4	138.7	42.3	189.3	200.7	230.6	29.8				
2 Month Avg.	85.8	102.5			191.0	201.9						

#### ILS ESTIMATED FARM EGG PRICE AND RETAIL EGG PRICE (cents/Doz)

Source: Estimated using Urner Barry's price quotations by regions

Source: Bureau of Labor Statistics (Dept. of Commerce)

For this report, the price paid to producers for large- and medium-size eggs is estimated by subtracting an "adjustment factor" from Urner Barry quotations of prices by region. The "adjustment factor" we are using varies around 40 cents/dozen and it is estimated by comparing the relationship between the Urner Barry prices with the Trailer Load prices reported by USDA.

The Undergrades eggs price is estimated as 35% of the Large eggs price (Large\*0.35)

The average price of all eggs is estimated based on the proportions of Large, Medium, Small and Undergrades eggs.

These proportions change each month.

Adjustment figures between Urner Barry guotes and producer prices are subject to change monthly and between regions and companies.

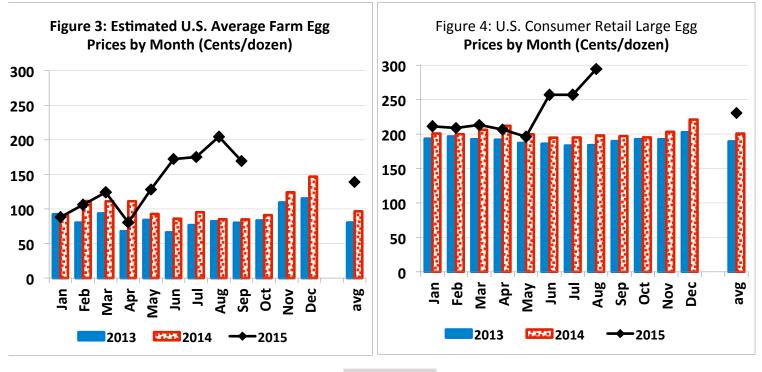




TABLE 9

month	Feed (cents/dozen) *		Pullets (cents/dozen) **		TOTAL Cost (cents/dozen)		Farm Profit (cents/dozen)	
	1-cycle	2-cycle	1-cycle	2-cycle	1-cycle	2-cycle	1-cycle	2-cycle
Jan	36.59	39.53	11.29	8.80	65.02	65.48	23.17	22.71
Feb	35.34	38.18	11.11	8.67	63.60	63.99	42.44	42.04
Mar	34.99	37.81	11.07	8.63	63.21	63.58	60.86	60.49
Apr	34.29	37.05	10.97	8.55	62.41	62.75	17.99	17.65
May	33.07	35.73	10.80	8.42	61.02	61.30	67.33	67.05
Jun	33.70	36.41	10.89	8.49	61.74	62.05	110.36	110.05
Jul	36.09	38.99	11.22	8.75	64.46	64.89	110.77	110.34
Aug	34.66	37.44	11.02	8.59	62.82	63.18	141.68	141.33
Sep	33.46	36.15	10.86	8.46	61.47	61.77	108.04	107.75
Oct								
Nov								
Dec								
9 Month Avg.	34.69	37.48	11.02	8.60	62.86	63.22	75.85	75.49

Source: Egg Industry Center, based on Feedstuffs magazine published prices of corn and soybean meal

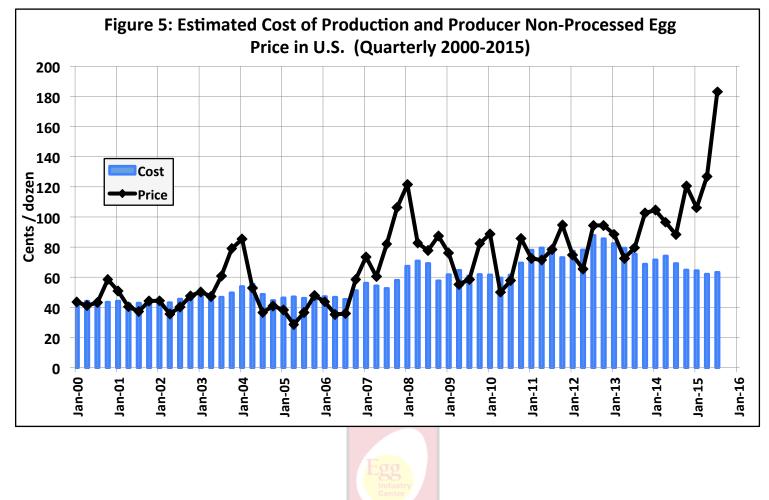
\* Feed cost uses "5-Region avg" from table 3 and assumes: feed conversion of 3.11 lbs/dozen in 1-cycle, and 3.36 lbs/dozen under 2-cycle;

\*\* Pullet cost uses "5-Region avg" from table 4 and assumes: 34.7 dozen eggs/hen housed in 1-cycle and 44.5 dozen eggs/hen housed under 2-cycles

Total cost assumes: building and equipment, labor, interest and miscellaneous costs are assumed to be 17.15 cents/dozen;

These estimations are based on standard costs for conventionally produced eggs. Higher labor costs might exist in certain regions. Newer, more efficient farms, would probably use less labor but have higher equipment costs.

Note: "5-Region avg" is the simple average of the NE, SE, SC, MW, and NE regions. California is not considered for the average because of the different production requirements.

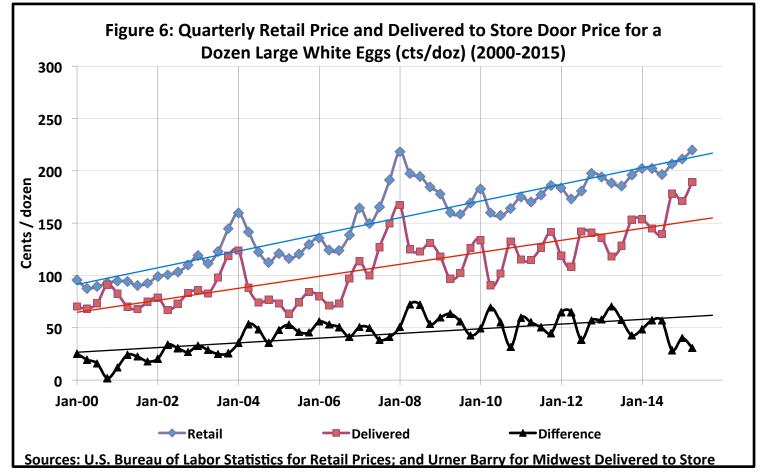


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	ND DELIVERED TO STORE PRICES FOR THE MIDWEST (cents/dozen) Large White Eggs Prices (cents/dozen)								
		Wareh	-		Delivered Store Door				
month	2012	2013	2014	2015	2012	2013	2014	2015	
Jan	106.25	112.93	113.07	111.15	111.75	118.43	118.57	116.65	
Feb	91.45	112.82	135.97	133.50	96.95	118.32	141.47	139.00	
Mar	98.59	113.15	133.75	149.18	104.09	118.65	139.25	154.68	
Apr	97.31	97.86	146.77	115.36	102.81	103.36	152.27	120.86	
May	76.55	105.45	116.21	136.20	82.05	110.95	121.71	141.70	
Jun	92.50	89.75	115.83	223.82	98.00	95.25	121.29	229.32	
Jul	103.55	104.73	122.18	206.55	109.05	110.23	127.68	212.05	
Aug	131.33	106.82	116.02	260.40	136.83	112.32	121.52	265.90	
Sep	120.50	106.50	111.93	217.02	125.50	112.00	117.43	222.52	
Oct	113.55	106.50	117.09		119.05	112.00	122.59		
Nov	124.10	134.29	141.32		129.60	139.79	146.82		
Dec	123.97	150.21	188.72		129.47	155.71	194.22		
9 Month Avg.	102.00	105.56	123.53	172.58	107.45	111.06	129.02	178.08	
Year average	106.64	111.75	129.91		112.10	117.25	135.40		

Source:

USDA AMS Poultry Market News and Analysis



Note: the delivered to store door price is estimated from the Urner Barry quoted prices as the 5- region simple average (Northeast, Southeast, South Central, Midwest, and Northwest). California is not considered for the average because of the different production requirements.



		Co	orn	Produc	tion	•	Soybea	ans	Production	
Year		Planted	Harvest	Harve	sted		Planted	Harvest	Harve	ested
		(Millior	n acres)	(Million b			(Million a	acres)	(Million I	
2011/12		91.9	84.0	12,360			75.0 73.8		3,094	
2012/13		97.3	87.4	10,755			77.2	76.1	3,042	
2013/14		95.4 87.5 13,829		29		76.8	76.3	3 3,358		
2014/15	014/15 90.6 83.1		14,2	14,216		83.7 83.1		3,969		
Projections	Septembe	r, 2015					Projections	September,	2015	
<b>2015/16</b> 88.9		88.9	81.1 13,585				84.3	83.5	3,935	
Jtilization o	of Soybean	for Various	Purposes	(Million bushe	ls)					_
	Begin.	Product-		Total		Seed Feed	% Crush of			Ending
Year	Stocks	ion	Imports	Supply	Crush	& residual	total	Exports	Net Use	Stocks
011/12	215	3,094	16	3,325	1,703	87	51.2	1,365	3,155	169
2012/13	169	3,042	41	3,252	1,689	89	51.9	1,317	3,111	141
2013/14	141	3,358	72	3,570	1,734	97	48.6	1,638	3,478	92
2014/15	92	3,969	33	4,094	1,870	98	43.9	1,835	3,884	210
2015/16+	210	3,935	30	4,175	1,870	92	44.8	1,725	3,725	450
					,					
Jtilization o			poses (Mill	ion bushels)		1				
Year	Begin.	Product- ion	Importo	Total	Food	(Eucl) *	Food & Industrial	Evnorto	Net Use	Ending
011/12	Stocks	12,360	Imports 29	Supply 13,517	<b>Feed</b> 4,557	(Fuel) * 5,000	6,428	Exports 1,543	12,528	Stocks
	1,128									989
2012/13	989	10,755	160	11,904	4,315	4,641	6,038	730	11,083	821
2013/14	821	13,829	36	14,686	5,041	5,124	6,493	1,920	13,454	1,232
2014/15	1,232	14,216	30	15,477	5,300	5,205	6,570	1,875	13,745	1,732
2015/16+	1,732	13,585	30	15,347	5,275	5,250	6,630	1,850	13,755	1,592
+ (forecast \$	September,	2015)				* Fuel is inclu	uded in the "Fo	od and Indu	strial" categor	У
		I		Food &		Ending	I			
		Feed	Fuel	Industrial *	Exports	Stocks				
	2011/12	33.7%	37.0%	10.6%	11.4%	7.3%				
	2012/13	36.2%	39.0%	11.7%	6.1%	6.9%				
	2013/14	34.3%	34.9%	9.3%	13.1%	8.4%				
	2014/15	34.2%	33.6%	8.8%	12.1%	11.2%				
	2014/13	34.4%	34.2%	9.0%	12.1%	10.4%				
		g the use fo		0.070	12.170	10.470				
	excludin	ig the use it								
<b>N</b>				the links below	and you ca	n go directly to	o the source):			
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Feedstuff: USDA ER	S Feed Ou S Oil Crops	tlook	http://usda. http://usda.	mannlib.cornell	l.edu/Mannl		umentInfo.do?o umentInfo.do?o			

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Don -Thank you for all your contributions to this industry. You will be forever missed. Your friends at EIC