U.S. Egg Cost of Production and Prices

JANUARY 10, 2016



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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

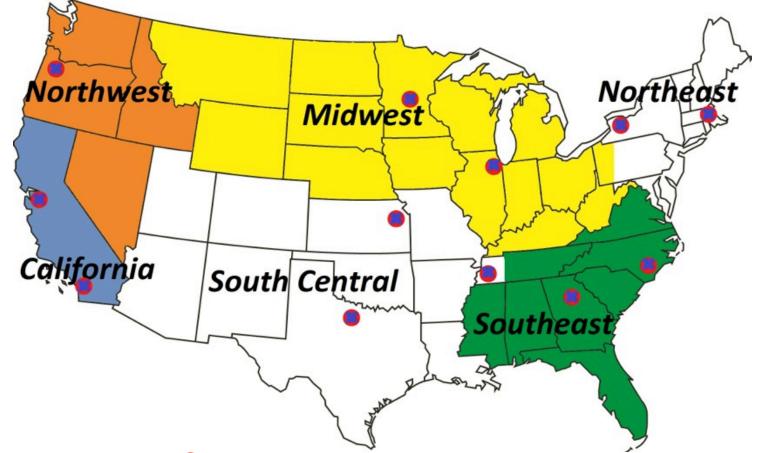
• The U.S. price is the simple average of the prices for all the regions listed above (except California)

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 December last year (2015 vs. 2014).

Corn Price (\$/ton)		SBM Prio	ce (\$/ton)	Feed Co	st (\$/ton)	Cost of Prod	(cents/doz.)	Egg Price ((cents/doz.)
-8.06	-4.8%	-149.81	-31.9%	-40.26	-16.5%	-7.44	-11.1%	-40.67	-27.7%
			** **	(<u> </u>		

In December, corn prices were \$8.06/ton (4.8%) lower than in the previous year. Soybean Meal prices were \$149.81/ton lower than December last year.

These changes in prices resulted in a \$40.26/ton (16.5%) lower cost of feed and 7.44 cents/doz. (11.1%) lower cost of production than December last year.

The December 2015 egg price paid to producers was 40.67 cents/doz. (27.7%) lower than in December 2014.

Difference with respect to the previous month this year (December 2015 vs. November 2015).

Corn Price (\$/ton)		SBM Price (\$/ton)		Feed Cost (\$/ton)		Cost of Prod (cents/doz.)		Egg Price (cents/doz.)	
+0.17	+0.1%	-16.92	-5.0%	-3.60	-1.7%	-0.67	-1.1%	-56.43	-34.7%

The December corn price was \$0.17/ton (0.1%) higher than the previous month. Soybean Meal prices were \$16.92/ton (5.0%) lower.

Changes in prices resulted in a \$3.60/ton (1.7%) lower cost of feed and 0.67 cents/doz. (1.1%) lower cost of production than previous month.

The December 2015 egg price paid to producers was 56.43 cents/doz. (34.7%) 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	194.38	155.46	130.18	140.95	182.19	160.63
Nov	191.29	146.95	129.64	143.11	179.05	158.01
Dec	190.00	148.53	129.60	142.82	179.96	158.18
2 Month Avg.	200.70	148.91	131.37	145.21	187.26	162.69
legion/US avg.	1.23	0.92	0.81	0.89	1.15	(1.00)

Source: Feedstuffs magazine

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

OUT DEAN MILAL		$(\psi, (0)) = 2010$,			
Month	Southeast	Northeast	Midwest	South Central	Northwest	5-Region avg.
Jan	495.00	409.82	386.63	387.09	434.18	422.54
Feb	439.25	381.32	355.11	363.48	405.18	388.87
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	416.50	359.75	314.25	329.65	362.10	356.45
Nov	397.60	342.10	292.69	305.06	345.27	336.55
Dec	382.25	325.00	277.11	287.40	326.39	319.63
12 Month Avg.	431.07	375.63	335.62	342.73	382.20	373.45
Region/US avg.	1.15	1.01	0.90	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 LAY	ER FEED COST	BY REGION (\$/to	on) - 2015			TABLE 3		
Month	Southeast	Northeast	Midwest	South Central	Northwest	5-Region avg.		
Jan	285.66	221.37	202.68	211.72	255.08	235.30		
Feb	263.73	211.74	195.24	205.41	244.55	224.13		
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	249.96	211.40	184.45	195.06	229.83	214.14		
Nov	243.73	201.82	179.35	191.10	224.02	208.00		
Dec	239.50	199.11	175.90	187.02	220.48	204.40		
12 Month Avg.	257.41	210.51	189.95	200.79	237.65	219.26		
Region/US avg.	1.17	0.96	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:

		Diet Composition					
	0	0.0.1		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

ESTIMATED 19-W	TIMATED 19-WEER POLLET COSTS BY REGION (#/Dird) - 2015									
Month	Southeast	Northeast	Midwest	South Central	Northwest	5-Region avg.				
Jan	4.29	3.81	3.67	3.74	4.06	3.92				
Feb	4.13	3.74	3.62	3.69	3.98	3.83				
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	4.02	3.74	3.54	3.62	3.88	3.76				
Nov	3.98	3.67	3.50	3.59	3.83	3.71				
Dec	3.95	3.65	3.48	3.56	3.81	3.69				
12 Month Avg.	4.08	3.73	3.58	3.66	3.93	3.80				
Region/US avg.	1.07	0.98	0.94	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.



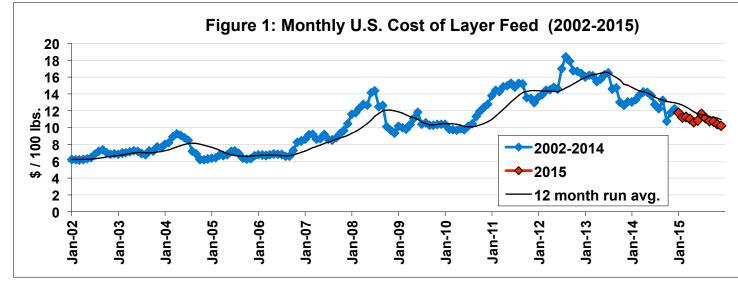
ESTIMATED PULL	ET COST BY R	EGION under 2-c	ycle systems (Cents/doz.) - 2015	_	TABLE 5
Month	Southeast	Northeast	Midwest	South Central	Northwest	5-Region avg
Jan	9.64	8.57	8.26	8.41	9.13	8.80
Feb	9.27	8.41	8.13	8.30	8.95	8.61
Mar	9.33	8.44	8.13	8.32	8.93	8.63
Apr	9.21	8.48	8.06	8.21	8.81	8.55
May	9.15	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	9.04	8.40	7.95	8.13	8.71	8.45
Nov	8.94	8.24	7.87	8.06	8.61	8.34
Dec	8.87	8.20	7.81	7.99	8.55	8.28
2 Month Avg.	9.17	8.39	8.04	8.22	8.84	8.53
Region/US avg.	1.07	0.98	0.94	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

ESTIMATED FEED	COST BY REG	ION under 2-cyc	le systems (Ce	ents/doz.) - 2015	_	TABLE 6
Month	Southeast	Northeast	Midwest	South Central	Northwest	5-Region avg
Jan	47.99	37.19	34.05	35.57	42.85	39.53
Feb	44.31	35.57	32.80	34.51	41.08	37.65
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	41.99	35.52	30.99	32.77	38.61	35.98
Nov	40.95	33.91	30.13	32.10	37.64	34.94
Dec	40.24	33.45	29.55	31.42	37.04	34.34
2 Month Avg.	43.24	35.37	31.91	33.73	39.93	36.84
egion/US avg.	1.17	0.96	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.



ESTIMATED TOTA	AL COSTS BY R	EGION (cents/do	z.) - 2015 ^				TABLE 7
Month	Southeast	Northeast	Midwest	South Central	Northwest	California	of 5 Regions
Jan	74.78	62.91	59.46	61.13	69.13	81.68	65.48
Feb	70.73	61.13	58.08	59.96	67.19	79.73	63.42
Mar	71.32	61.44	58.11	60.19	66.86	79.41	63.58
Apr	70.05	61.94	57.25	58.99	65.55	78.09	62.75
May	69.31	57.95	56.47	58.10	64.69	77.23	61.30
Jun	68.23	60.50	56.40	58.25	66.89	79.43	62.05
Jul	71.08	63.50	59.17	61.79	68.90	81.44	64.89
Aug	69.41	61.56	58.00	60.87	66.08	78.62	63.18
Sep	68.35	60.73	56.61	58.09	65.07	77.62	61.77
Oct	68.19	61.07	56.09	58.05	64.47	77.01	61.57
Nov	67.04	59.30	55.15	57.32	63.40	75.94	60.44
Dec	66.26	58.80	54.51	56.56	62.74	75.29	59.77
12 Month Avg.	69.56	60.90	57.11	59.11	65.91	78.46	62.52
Region/US avg.	1.11	0.97	0.91	0.95	1.05	1.25	(1.00)

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.

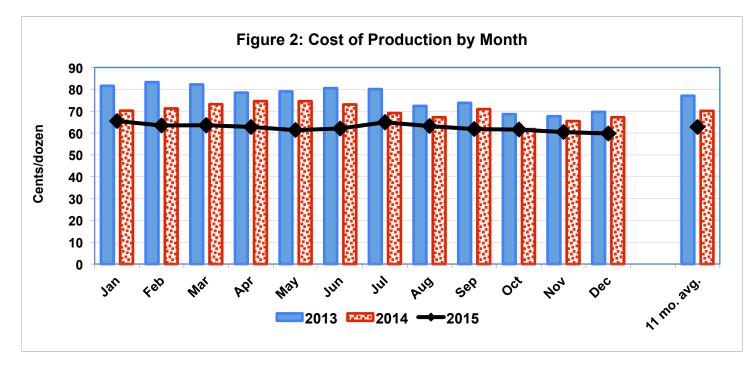
These assumptions that are a clear simplification of the changes in different costs are:

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 in²/67 in²) 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				· · · · · · · · · · · · · · · · · · ·		Retail Price for Large White Eggs (cen				
			e Egg Sizes (c	•		ice for Large w		-		
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	296.6	99.6		
Oct	83.3	91.0	123.6	32.6	192.5	195.1	280.8	85.7		
Nov	109.3	124.0	162.5	38.5	192.5	203.2	266.4	63.2		
Dec	115.1	146.7	106.1	-40.7	202.6	221.0				
Avg.	85.8	102.5	136.7	34.2	189.9	200.1	244.4	44.3		
2 Month Avg.	85.8	102.5			191.0	201.9				

U.S. 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 quotes and producer prices are subject to change monthly and between regions and companies.

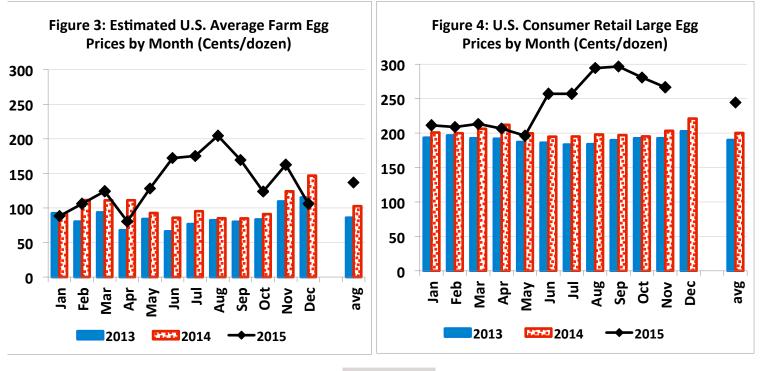




TABLE 9

ESTIMATED TOTAL COSTS U	NDER 1-cycle AND 2-c	ycle SYSTEMS (Cents/do	oz.) - 2015
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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	34.85	37.65	11.05	8.61	63.05	63.42	42.99	42.62
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	33.30	35.98	10.83	8.45	61.28	61.57	62.36	62.07
Nov	32.34	34.94	10.70	8.34	60.20	60.44	102.30	102.05
Dec	31.78	34.34	10.62	8.28	59.56	59.77	46.51	46.29
2 Month Avg.	34.10	36.84	10.94	8.53	62.19	62.52	74.53	74.20

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

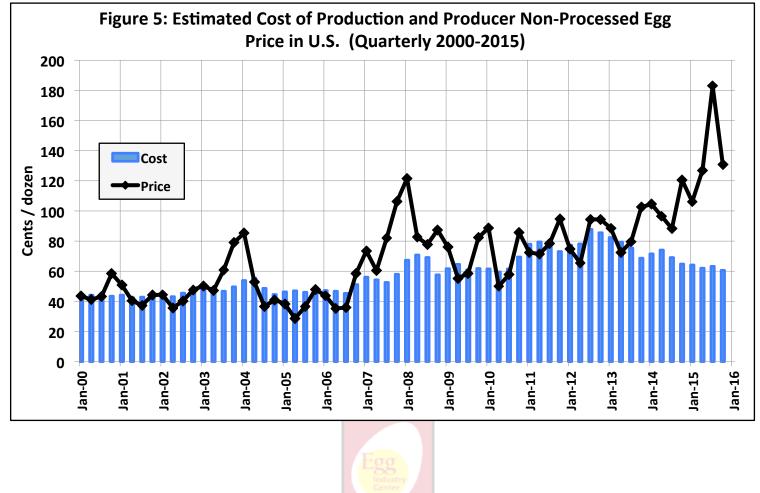
* Feed cost uses "5-Region avg" from table 3 and assumes: feed conversion of 3.11 lbs/dozen in 1-cycle, and 3.36 lbs/dozen under 2-cycle;

** 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.

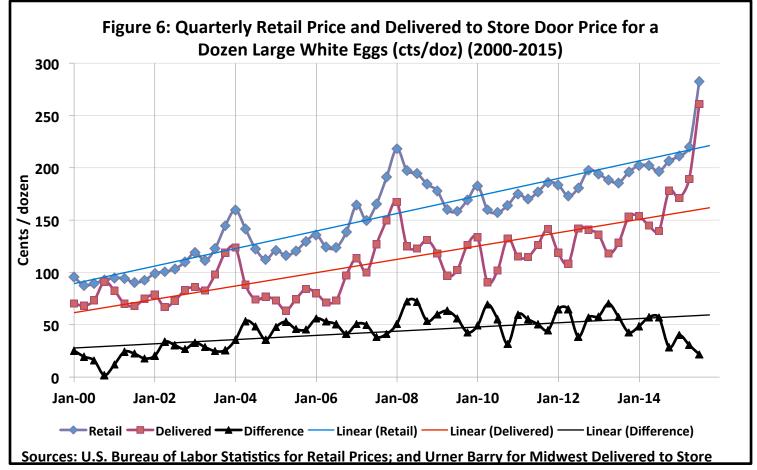
Note: "5-Region avg" is the simple average of the NE, SE, SC, MW, and NE regions. California is not considered for the average because of the different production requirements.



	ND DELIVERED TO STORE PRICES FOR THE MIDWEST (cents/dozen)									
	Large White Eggs Prices (cents/dozen)									
		Wareh	ouse		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	161.65	119.05	112.00	122.59	167.15		
Nov	124.10	134.29	141.32	192.55	129.60	139.79	146.82	198.05		
Dec	123.97	150.21	188.72	157.14	129.47	155.71	194.22	162.64		
12 Month Avg.	106.64	111.75	129.91	172.04	112.10	117.25	135.40	177.54		
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.



SPECIAL NOTE ABOUT PRICE PROJECTIONS

As everyone is aware, the avian influenza outbreak has affected the total supply of eggs in the U.S.

As a result, the egg market is experiencing great volatility making it near impossible to make projections.

The Egg Industry Center model for price projections is not designed to make projections under these extreme conditions.

Therefore we decided to suspend the price projections until the model can provide a reasonable representation of the market expectations.

		DRN AND SOYBEAN PLANTINGS, H Corn Pi			tion	•	Soybe	ans	Produ	ction
′ear		Planted	Harvest	Harve	sted		Planted	Harvest		ested
		(Million acres)		(Million b			(Million a		(Million bushels)	
2011/12		91.9	84.0	12,360			75.0	73.8	3,0)94
2012/13		97.3	87.4	10,755			77.2	76.1	3,042	
2013/14		95.4	87.5	13,8			76.8	76.3		58
2014/15		90.6	90.6 83.1 14,216		16		83.3 82.6		3,927	
rojections	November					-	Projections			
2015/16 88.4		88.4	80.7 13,654				83.2 82.4			81
Itilization of			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
012/13	169	3,042	41	3,252	1,689	89	51.9	1,317	3,111	141
013/14	141	3,358	72	3,570	1,734	97	48.6	1,638	3,478	92
2014/15	92	3,927	33	4,052	1,873	97	43.9	1,843	3,861	191
015/16+	191	3,981	30	4,203	1,890	92	45.0	1,715	3,738	465
Itilization of	f Corn for	Various Pu	poses (Mill	ion bushels)						_
	Begin.	Product-		Total			Food &			Ending
Year	Stocks	ion	Imports	Supply	Feed	(Fuel) *	Industrial	Exports	Net Use	Stocks
011/12	1,128	12,360	29	13,517	4,557	5,000	6,428	1,543	12,528	989
012/13	989	10,755	160	11,904	4,315	4,641	6,038	730	11,083	821
013/14	821	13,829	36	14,686	5,040	5,124	6,493	1,920	13,454	1,232
2014/15	1,232	14,216	32	15,479	5,315	5,209	6,568	1,864	13,748	1,731
015/16+	1,731	13,654	30	15,415	5,300	5,200	6,580	1,750	13,630	1,785
+ (forecast N	November, 2	2015)				* Fuel is inclu	uded in the "Fo	od and Indu	strial" categor	у
		Feed	Fuel	Food & Industrial *	Exports	Ending Stocks				
	2011/12	33.7%	37.0%	10.6%	11.4%	7.3%				
	2011/12	36.2%	37.0 <i>%</i> 39.0%	11.7%	6.1%	6.9%				
				9.0%	11.470	11.070				
	2013/14 2014/15 2015/16+ * excludin	34.3% 34.3% 34.4% g the use fo	34.9% 33.7% 33.7% or fuel	9.3% 8.8% 9.0%	13.1% 12.0% 11.4%	8.4% 11.2% 11.6%				

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