

U.S. Flock Trends and Projections

February 10, 2017



Compiled by
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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.

U.S. EGG INDUSTRY STATISTICAL REPORT SUMMARY

- * The December hatch (straight-run chicks) was 1.0% lower than in 2015. This projects forward to a 20.9 million pullet placement for May of 2017 which is 0.2 million smaller than May of 2016 placement (21.1).
- * Current (December average, 2016) U.S. table egg layer number (313.9 million) is 8.4 percent larger than last year's number at this time (289.7 million), and up 3.2 million compared to last month (310.7 million).
- * In December, Iowa led the nation with 53.9 million laying hens compared to 30.8 million in Ohio, 31.4 million in Indiana, and 25.8 million in Pennsylvania. California (with 11.5 million layers) lost it's 5th position to Texas with 16.9 million layers.
- * The December U.S. rate of lay was estimated to be 80.6% which is 2.8% higher than December 2015 level. The total number of table eggs produced in December 2016 was 12.3% higher than the December 2015 production.
- * The December 2016 number of eggs exported was 28% higher than last year (December 2015) and 8% higher than last month (November 2016). The December exports represented 3.4% of the number of eggs produced.
- * Shell eggs broken for products in December 2016 totaled 6.5518 million cases, 13.4% more than in December 2015 (5.749 million cases).

Monthly Highlights (Compared to December a year ago) (% change) - U.S.

	2015	2016	% Change
Hatch - Egg-Type Straight Run (thousands) (U.S.)	46,695	46,215	-1.0
Table Egg Layers (millions) (U.S.)	289.7	313.9	8.4
Rate of lay (percent)	77.8	80.6	2.8
Molting (January 1, 2017) (percent in + out of a molt)	23.8	17.1	-28.2

Year-end layers (millions) - U.S.

Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Million	284.7	285.6	285.2	286.8	290.1	298.6	308.2	311.3	291.1	314.0	315.3*

* estimated value

The quality of the data in the Egg Industry Center market reports depends on the quantity and quality of the responses we receive to our egg industry surveys. In addition, a large portion of the information EIC uses is obtained from USDA reports, which are also based on industry surveys. The Egg Industry Center asks that you strongly consider participation in both EIC and USDA surveys. Thanks in advance for your consideration.

It was brought to our attention that some readers understand that the table-egg layers are the layers dedicated to the shell egg industry only. The table-egg layers are the ones that produce eggs for both shell eggs and egg products market (all eggs for human consumption). The total layers include table-egg layers but also include breeding stock for both the table-egg industry and for the broiler industry.

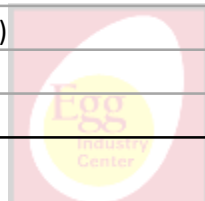
The same distinction is made between table-eggs and total eggs.



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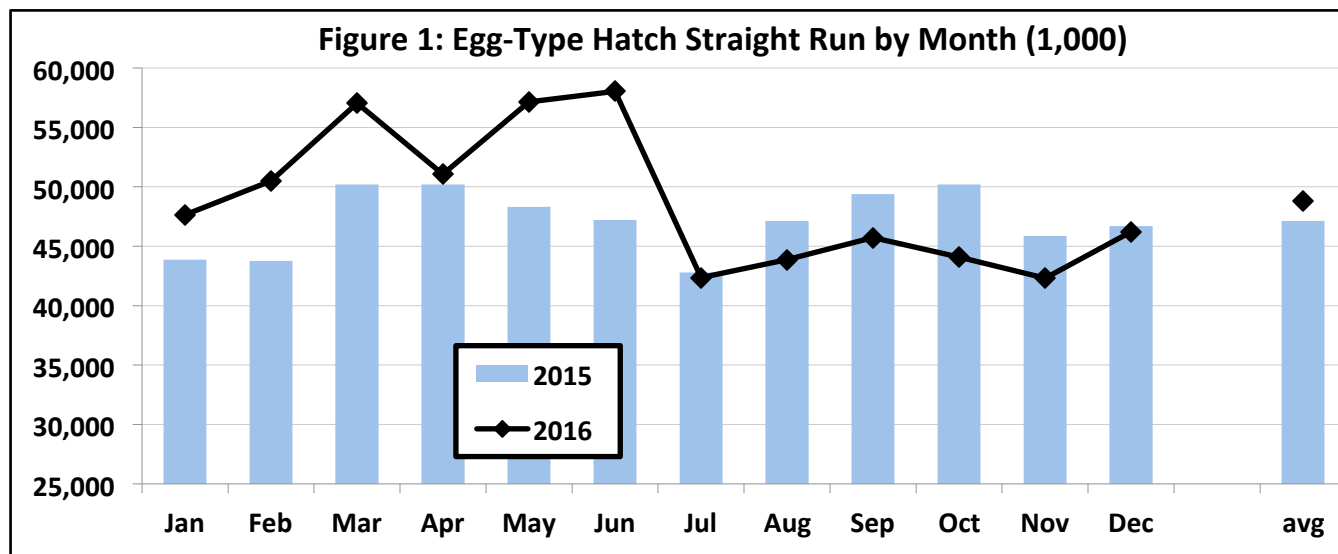
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EGG TYPE: EGGS IN INCUBATORS (on the 1st of the month) and STRAIGHT RUN HATCH (U.S.) **TABLE 1**

EGG-TYPE Eggs in Incubators (thousands)				EGG-TYPE Straight Run Hatch (thousands)			
month	2016	2017	Change (%)	month	2015	2016	Change %
Jan	47,981	40,241	-16.1	Jan	43,868	47,645	8.6
Feb	47,942			Feb	43,774	50,481	15.3
Mar	50,402			Mar	50,187	57,037	13.6
Apr	50,861			Apr	50,193	51,052	1.7
May	53,478			May	48,315	57,155	18.3
Jun	54,579			Jun	47,212	58,040	22.9
Jul	44,940			Jul	42,790	42,349	-1.0
Aug	38,355			Aug	47,131	43,870	-6.9
Sep	43,558			Sep	49,391	45,724	-7.4
Oct	40,676			Oct	50,194	44,071	-12.2
Nov	41,682			Nov	45,848	42,313	-7.7
Dec	45,960			Dec	46,695	46,215	-1.0
1 Month Avg.	47,981	40,241	-16.1	12 Month Avg.	47,133	48,829	3.6
1 Month Total	47,981	40,241		12 Month Total	565,598	585,952	
12 Month Total	560,414			12 Month Total	565,598		

Source: USDA NASS Chickens and Eggs

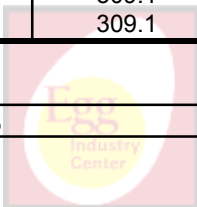


AVERAGE U.S. LAYERS AND TABLE EGG LAYERS 2014/2015 (MILLIONS) **TABLE 2**

month	All Layers			Table Egg Layers			
	2015	2016	Change (%)	2014	2015	2016	Change (%)
Jan	366.7	351.3	-4.2	307.2	309.5	293.1	-5.3
Feb	365.4	357.1	-2.3	306.7	308.1	298.6	-3.1
Mar	366.0	361.2	-1.3	307.7	308.1	302.5	-1.8
Apr	362.0	361.1	-0.2	308.3	303.6	302.4	-0.4
May	345.3	360.6	4.4	307.6	286.8	301.9	5.3
Jun	332.6	359.3	8.0	307.0	274.2	301.0	9.8
Jul	333.3	357.6	7.3	308.2	275.1	299.7	8.9
Aug	334.5	358.5	7.2	309.6	276.6	300.9	8.8
Sep	336.6	360.4	7.1	310.4	278.9	303.3	8.7
Oct	339.4	362.7	6.9	310.7	281.7	305.9	8.6
Nov	343.5	367.8	7.1	312.7	285.5	310.7	8.8
Dec	347.8	371.5	6.8	313.0	289.7	313.9	8.4
12 Month Avg.	347.8	360.8	3.7	309.1	289.8	302.8	4.5
Annual Avg.	347.8			309.1	289.8		

Source: USDA NASS Chickens and Eggs

Table egg layers as a % of all layers to date (2015): 83.9%

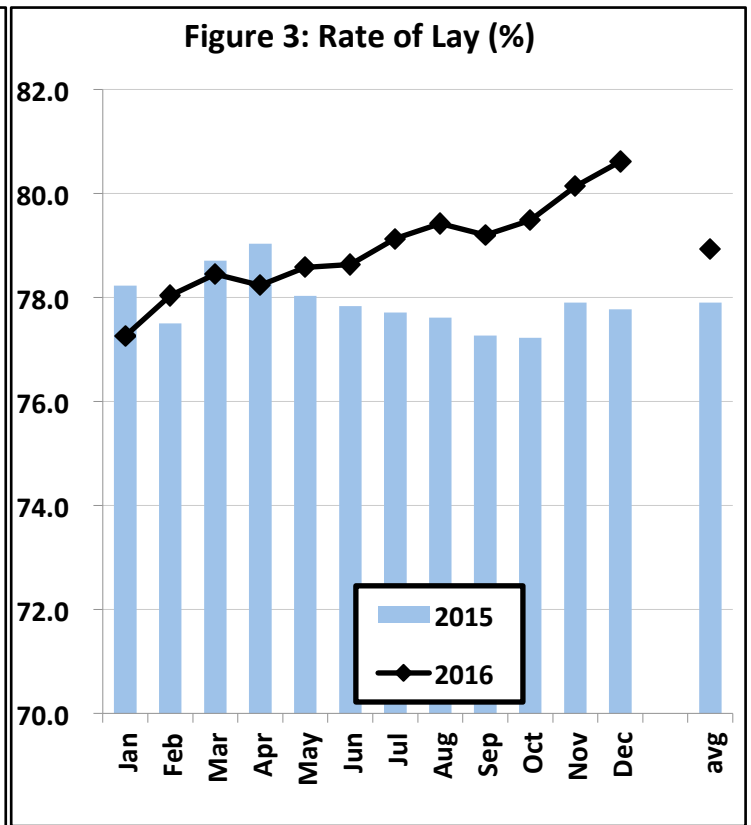
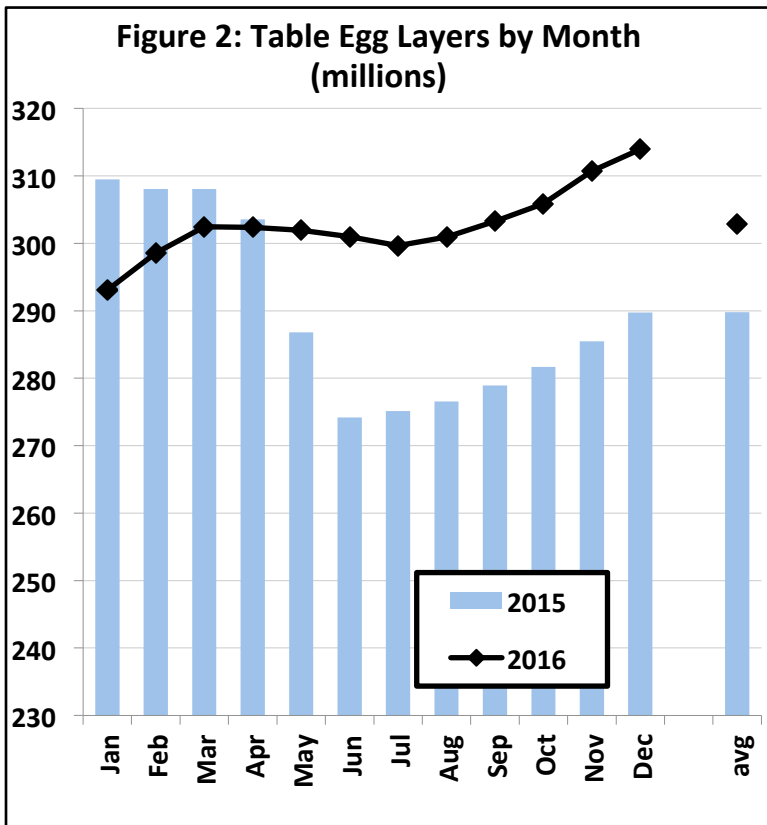


U.S. ALL EGGS, TABLE EGGS AND RATE OF LAY (ALL STATES)

TABLE 3

month	All Eggs (millions)			Table Eggs - human consumption (millions)			Rate of Lay (Table)	
	2015	2016	Change (%)	2015	2016	Change (%)	2015	2016
Jan	8,612	8,152	-5.3	7,503	7,019	-6.5	78.2	77.3
Feb	7,686	7,818	1.7	6,685	6,756	1.1	77.5	78.0
Mar	8,634	8,496	-1.6	7,515	7,357	-2.1	78.7	78.5
Apr	8,294	8,207	-1.1	7,199	7,096	-1.4	79.0	78.2
May	8,076	8,509	5.4	6,936	7,355	6.0	78.0	78.6
Jun	7,509	8,208	9.3	6,401	7,099	10.9	77.8	78.6
Jul	7,775	8,498	9.3	6,629	7,351	10.9	77.7	79.1
Aug	7,798	8,552	9.7	6,655	7,409	11.3	77.6	79.4
Sep	7,562	8,298	9.7	6,465	7,204	11.4	77.3	79.2
Oct	7,872	8,661	10.0	6,743	7,535	11.7	77.2	79.5
Nov	7,763	8,565	10.3	6,671	7,469	12.0	77.9	80.1
Dec	8,117	8,972	10.5	6,985	7,844	12.3	77.8	80.6
12 Month Avg.	7,975	8,411	5.5	6,866	7,291	6.2	77.9	78.9
Annual Avg.	7,975			6,866			77.9	
Total	95,696	100,936		82,387	87,492			

Source: USDA NASS Chickens and Eggs



SHELL EGGS BROKEN UNDER FEDERAL INSPECTION (MILLION CASES)

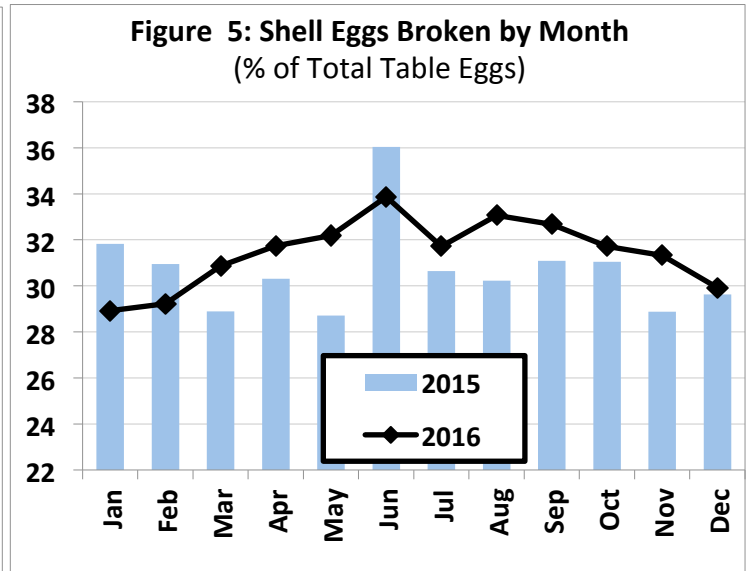
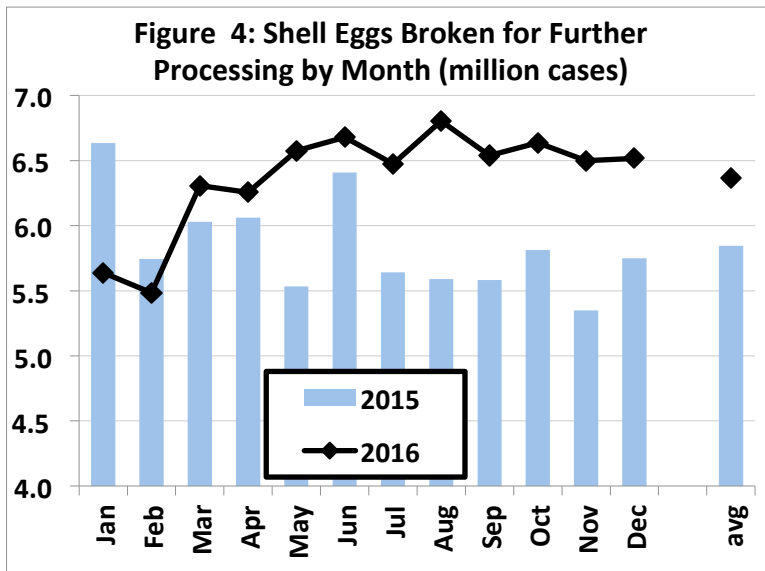
TABLE 4

month	2010	2011	2012	2013	2014	2015	2016	16/15 (%) Change
Jan	5.268	5.668	5.666	5.765	5.865	6.634	5.639	-15.0
Feb	5.013	5.163	5.524	5.374	5.325	5.746	5.484	-4.5
Mar	5.504	6.008	5.715	5.831	6.086	6.030	6.308	4.6
Apr	5.714	5.464	5.634	5.950	6.205	6.061	6.255	3.2
May	5.727	5.838	6.057	5.820	6.514	5.533	6.576	18.9
Jun	6.206	6.167	5.955	6.118	6.532	6.408	6.679	4.2
Jul	5.977	5.988	5.748	6.266	6.618	5.641	6.474	14.8
Aug	5.884	6.061	6.523	6.200	6.596	5.589	6.804	21.7
Sep	6.582	5.869	6.005	6.040	6.566	5.583	6.539	17.1
Oct	5.842	5.805	6.109	6.289	6.731	5.814	6.636	14.1
Nov	5.445	5.786	5.577	5.738	6.086	5.350	6.499	21.5
Dec	5.891	5.615	5.964	5.745	6.281	5.749	6.518	13.4
12 Month Avg.	5.754	5.786	5.873	5.928	6.284	5.845	6.368	8.9
12 Month Total	69.054	69.431	70.477	71.136	75.405	70.138	76.411	
12 Month Total	69.054	69.431	70.477	71.136	75.405	70.138	76.411	

Source: USDA NASS Egg products - monthly

Million Cases Produced
% BROKEN

221.728	228.286	236.092	245.460	228.854	243.033
31.3	30.9	30.1	30.7	30.6	31.4



PER CAPITA EGG CONSUMPTION BY QUARTER

TABLE 5

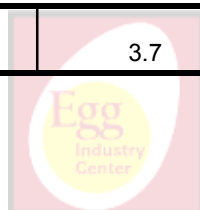
QUARTER	2010	2011	2012	2013	2014	2015	2016	2017*
1	61.8	61.3	63.2	64.2	65.5	65.2	66.1	66.9
2	61.9	61.5	62.2	63.3	66.1	62.2	66.0	66.4
3	62.5	62.8	63.3	64.5	67.1	61.1	66.8	66.5
4	63.1	64.3	65.6	66.0	68.4	64.5	68.4	
Total	249.3	249.9	254.3	258.0	267.1	252.9	267.4	267.5

Change from previous year (eggs)

0.6	4.4	3.7	9.1	-14.2	14.5	0.1
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Source: USDA ERS Livestock and Meat Trade Data.

* Estimates for 2017 (1/2017)

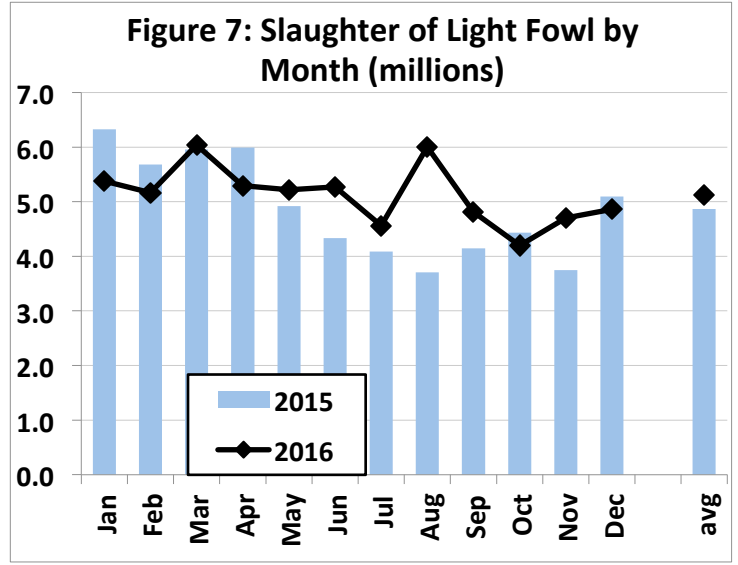
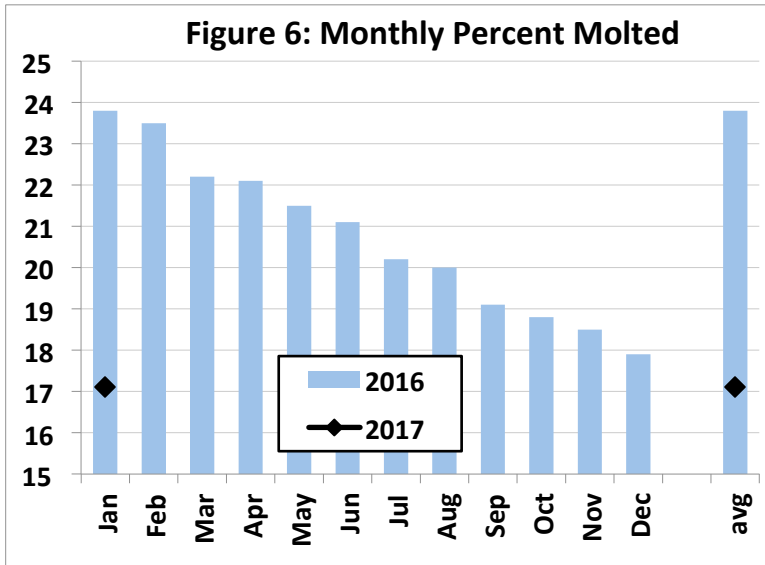


INDUCED MOLT PERCENT - U.S. TOTALS (1ST OF MONTH)

TABLE 6

month	In a Molt			Completed a Molt		Total		
	2016	2017	Change	2016	2017	2016	2017	Change
Jan	2.5	1.6	-0.9	21.3	15.5	23.8	17.1	-6.7
Feb	2.9			20.6		23.5		
Mar	1.5			20.7		22.2		
Apr	2.9			19.2		22.1		
May	2.8			18.7		21.5		
Jun	2.9			18.2		21.1		
Jul	2.5			17.7		20.2		
Aug	2.6			17.4		20.0		
Sep	2.6			16.5		19.1		
Oct	2.1			16.7		18.8		
Nov	2.2			16.3		18.5		
Dec	1.5			16.4		17.9		
1 Month Avg.	2.5	1.6	-0.9	21.3	15.5	23.8	17.1	-6.7
12 Month Avg.	2.4			18.3		20.7		

Source: USDA NASS Chickens and Eggs

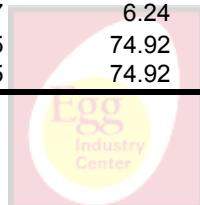


SLAUGHTER OF LIGHT FOWL (MILLIONS)

TABLE 7

month	2010	2011	2012	2013	2014	2015	2016	6 YR (09-14) Month Avg.
Jan	5.80	5.90	6.98	7.63	7.01	6.33	5.38	6.61
Feb	5.22	5.59	5.57	6.20	5.86	5.68	5.17	5.68
Mar	6.50	6.56	7.15	6.49	6.15	5.96	6.04	6.47
Apr	6.59	5.99	7.95	8.31	6.63	5.99	5.30	6.91
May	5.78	6.42	7.91	7.21	7.06	4.92	5.22	6.55
Jun	5.88	5.30	6.25	5.40	6.07	4.33	5.27	5.54
Jul	5.42	5.00	4.45	5.60	5.32	4.09	4.56	4.98
Aug	5.64	5.85	6.00	6.81	6.13	3.71	6.01	5.69
Sep	6.12	5.68	5.39	5.50	5.80	4.14	4.81	5.44
Oct	5.01	5.56	5.60	5.73	5.57	4.44	4.20	5.32
Nov	4.07	4.92	5.12	3.59	3.75	3.75	4.70	4.20
Dec	5.63	5.60	6.89	6.45	6.47	5.10	4.86	6.02
12 Month Avg.	5.64	5.70	6.27	6.24	5.98	4.87	5.13	5.78
12 Month Total	67.66	68.37	75.25	74.92	71.80	58.42	61.50	69.40
12 Month Total	67.66	68.37	75.25	74.92	71.80	58.42		69.40

Source: USDA NASS Poultry Slaughter



EXPORT OF TABLE EGGS IN THE SHELL IN 2016 (Thousand cases- 30 doz)

TABLE 8

Month \ To	North America	Central America	Caribbean	European Union-28	East Asia	Southeast Asia	Middle East	Total 2016	Total 2015	% of U.S. Production
Jan	97.2	0.9	64.7	0.0	90.3	0.0	7.1	272.3	468.2	1.40
Feb	131.6	4.8	79.1	0.2	68.2	0.2	1.8	298.0	491.3	1.59
Mar	185.6	1.9	89.1	0.1	116.8	0.0	2.4	409.7	525.8	2.00
Apr	130.3	4.6	96.5	0.2	89.5	0.0	1.8	335.2	540.0	1.70
May	99.4	0.1	67.5	0.6	83.8	0.0	4.7	267.3	352.5	1.31
Jun	65.4	1.4	70.0	3.5	86.8	0.0	9.5	243.6	322.4	1.24
Jul	94.3	4.6	67.9	0.8	85.9	0.0	18.1	283.1	321.8	1.39
Aug	107.0	1.7	69.4	0.0	84.1	0.0	24.4	296.0	421.7	1.44
Sep	159.9	1.6	119.2	0.1	81.2	0.0	34.2	411.0	305.7	2.05
Oct	102.2	3.0	86.9	1.0	85.9	0.0	41.4	330.6	328.1	1.58
Nov	70.4	2.6	66.0	1.0	106.8	0.0	33.7	292.7	279.3	1.41
Dec	119.1	1.7	90.6	0.5	88.7	0.0	30.3	340.2	262.2	1.56
12 Mo. Total	1,362.3	28.9	966.7	8.0	1,068.0	0.2	209.4	3,779.6	4,618.9	1.56
%	36.0	0.8	25.6	0.2	28.3	0.0	5.5			

Source: USDA Foreign Agric. Service from U.S. Dept. of Commerce, U.S. Census Bureau, Foreign Trade Stats

EXPORT OF EGG PRODUCTS IN 2016 (EQUIVALENT: thousand cases- 30 doz)

TABLE 9

Month \ To	North America	Central America	Caribbean	European Union-28	East Asia	Southeast Asia	Middle East	Total 2016	Total 2015	% of U.S. Production
Jan	77.1	7.6	4.8	21.3	43.0	13.3	2.4	169.9	517.3	0.87
Feb	60.6	9.7	5.8	16.4	64.1	4.1	1.1	162.8	436.1	0.87
Mar	104.2	16.9	12.0	6.0	133.0	10.5	4.2	291.3	463.9	1.43
Apr	104.7	5.0	8.7	16.8	77.5	10.5	5.6	233.8	402.1	1.19
May	70.7	5.1	6.0	40.9	92.4	0.8	2.2	221.8	385.0	1.09
Jun	101.2	7.2	3.0	15.4	72.3	13.8	30.4	244.5	194.7	1.24
Jul	79.3	23.4	3.7	42.2	75.6	3.1	3.9	236.7	194.3	1.16
Aug	98.4	7.8	12.8	47.0	95.6	17.7	3.0	286.9	254.1	1.39
Sep	107.6	18.4	4.0	95.6	110.4	11.7	2.3	355.1	297.5	1.77
Oct	135.6	7.9	7.2	55.1	105.9	31.8	11.6	366.9	211.7	1.75
Nov	168.4	1.4	9.5	69.2	117.0	12.0	7.5	400.9	157.0	1.93
Dec	150.4	18.1	8.6	73.2	124.8	6.2	4.8	409.1	324.1	1.88
12 Mo. Total	1,258.1	128.5	85.9	498.9	1,111.7	135.5	78.9	3,379.6	3,837.9	1.38
%	37.2	3.8	2.5	14.8	32.9	4.0	2.3			

Converted from metric tonnes at a rate of one metric tonne equals approximately 52.4 thirty dozen cases.

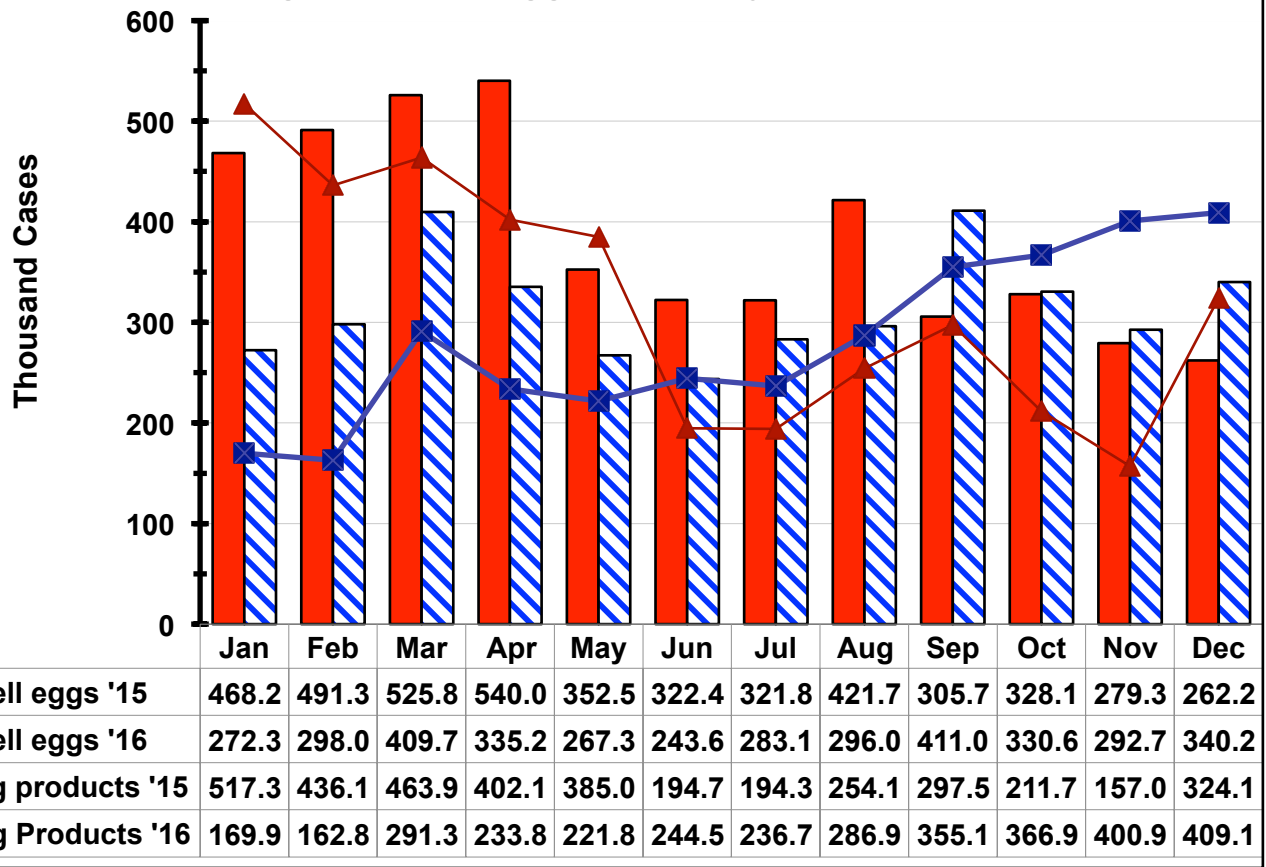
Source: USDA Economic Research Service from U.S. Dept. of Commerce, U.S. Census Bureau, Foreign Trade Stats.

TOTAL EGGS EXPORTED - 2016

TABLE 10

	Table Eggs Produced		Shell Eggs Exported		Egg Products Exported		Total Exported	
	(000) Cases		Cases	% of U.S.	Cases	% of U.S.	Cases	% of U.S.
Jan	19,497		272.3	1.40	169.9	0.87	442.1	2.27
Feb	18,766		298.0	1.59	162.8	0.87	460.8	2.46
Mar	20,436		409.7	2.00	291.3	1.43	700.9	3.43
Apr	19,710		335.2	1.70	233.8	1.19	569.0	2.89
May	20,432		267.3	1.31	221.8	1.09	489.1	2.39
Jun	19,719		243.6	1.24	244.5	1.24	488.0	2.48
Jul	20,418		283.1	1.39	236.7	1.16	519.8	2.55
Aug	20,581		296.0	1.44	286.9	1.39	582.9	2.83
Sep	20,012		411.0	2.05	355.1	1.77	766.1	3.83
Oct	20,930		330.6	1.58	366.9	1.75	697.4	3.33
Nov	20,746		292.7	1.41	400.9	1.93	693.6	3.34
Dec	21,789		340.2	1.56	409.1	1.88	749.3	3.44
Total/Av	221,244		3,779.6	1.71	3,379.6	1.53	7,159.1	3.24

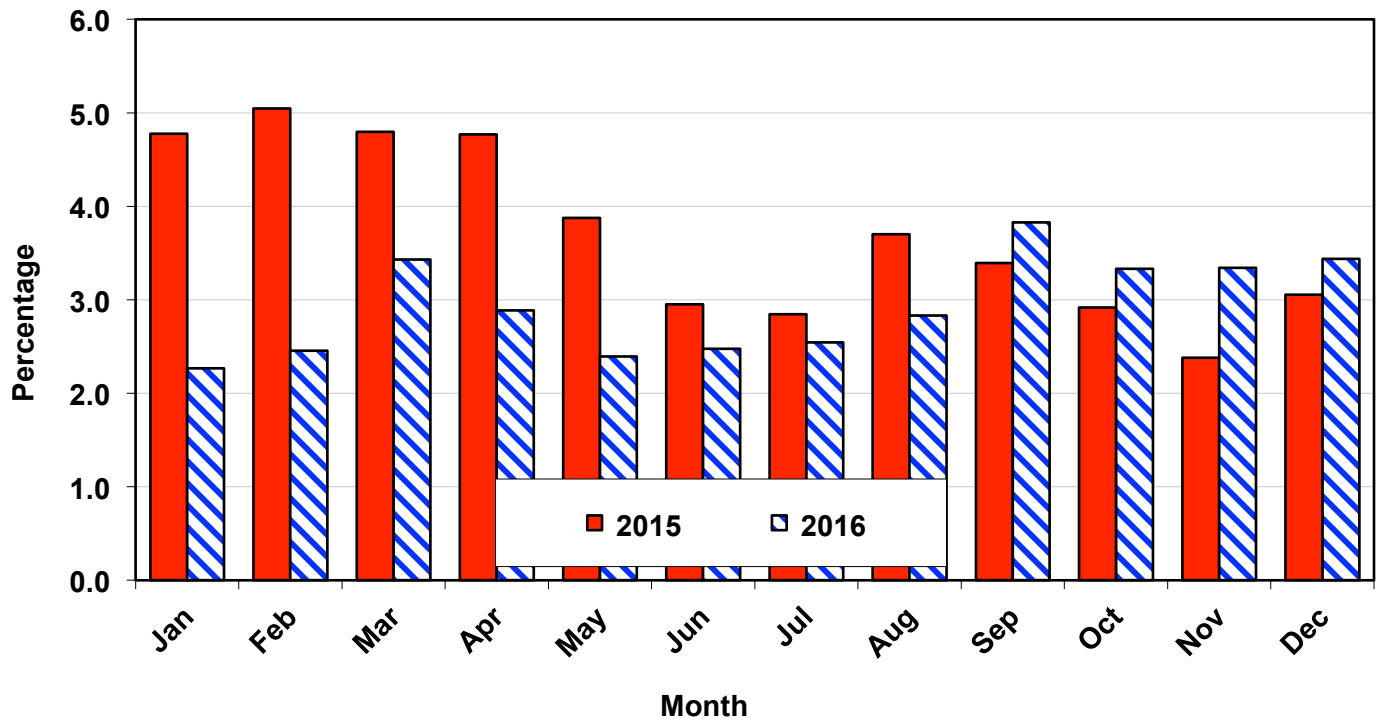
Figure 8: U.S. Egg Exports by Month - 2015 and 2016



Note: Information has been converted from metric tonnes at a rate of 42 lbs. per case of liquid egg (edible + inedibles).

Figure 9: Exported Eggs by Month - 2015 and 2016

(percentage of eggs produced)



ALL EGGS PRODUCED, INCLUDING HATCHING EGGS, BY REGION (Million) - 2016

TABLE 11

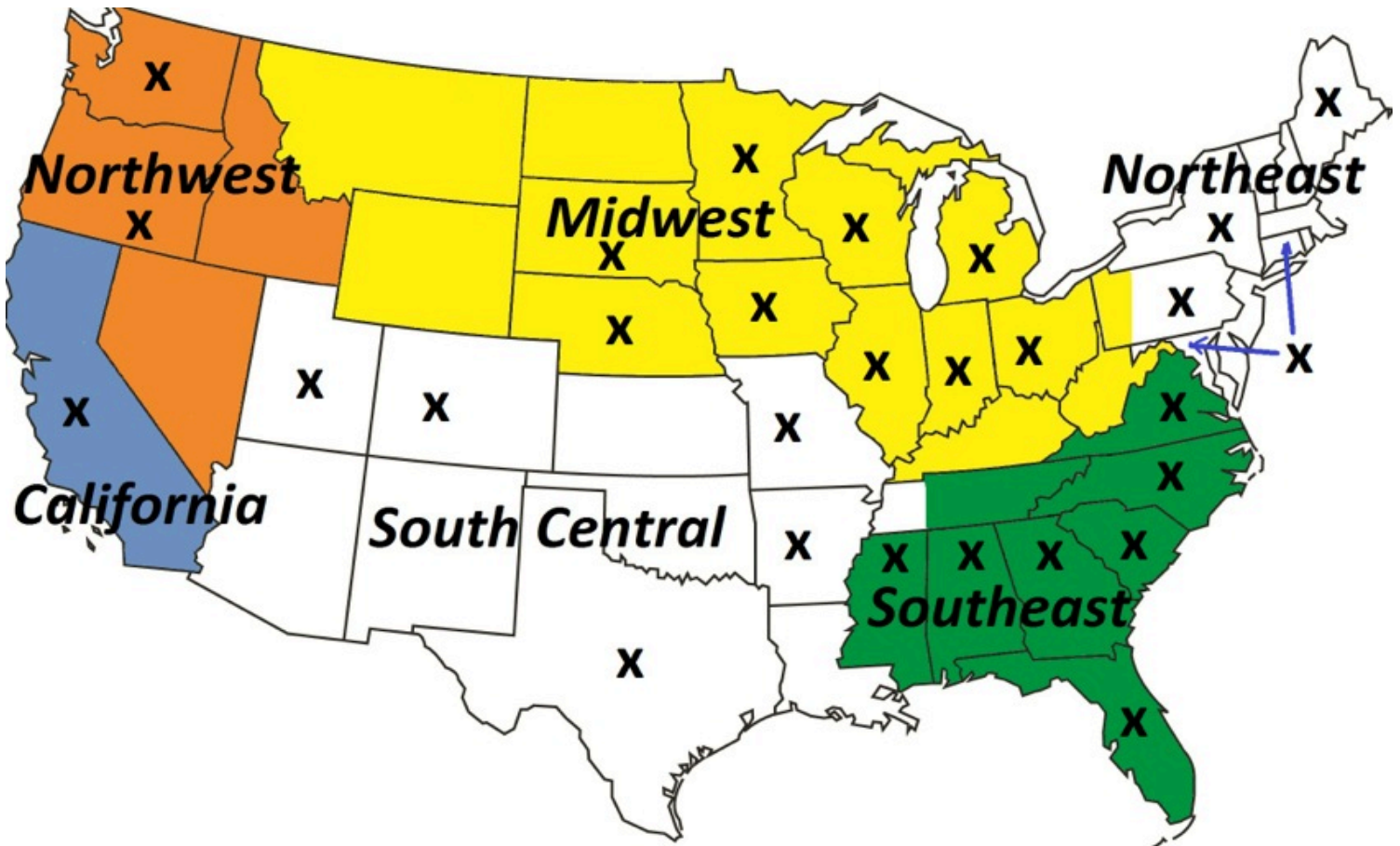
month	Northeast	Southeast	South Central	Midwest	Northwest	California	U.S. Total
Jan	864	1,506	1,311	3,584	227	297	8,152
Feb	841	1,408	1,228	3,457	224	276	7,818
Mar	934	1,486	1,299	3,736	247	297	8,496
Apr	903	1,406	1,256	3,704	226	291	8,207
May	911	1,441	1,304	3,825	226	300	8,509
Jun	883	1,390	1,242	3,705	220	288	8,208
Jul	919	1,448	1,282	3,828	228	292	8,498
Aug	909	1,446	1,291	3,885	231	291	8,552
Sep	876	1,386	1,254	3,801	219	283	8,298
Oct	906	1,442	1,326	3,976	228	291	8,661
Nov	882	1,418	1,309	3,971	232	285	8,565
Dec	920	1,471	1,354	4,186	250	302	8,972
12 Month Avg.	896	1,437	1,288	3,805	230	291	8,411
% of total	10.6	17.1	15.3	45.2	2.7	3.5	

Source: USDA NASS Chickens and Eggs

Note: All States are not represented (see map below)

Note: Year 2015 average for the following States were added: KY, LA, MA, MT, OK, TN, VT and WV

Map of U.S. Regions, as defined by Urner Barry, and the location of information used in this report



Notes

The x's mark the States where there is USDA data available on number of layers, egg production and percent molt.

Northwest is the sum of OR and WA

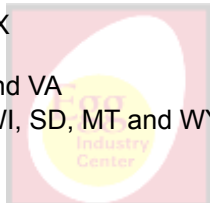
South Central is the sum of AR, UT, CO, MO and TX

Northeast is the sum of CT, MD, ME, NY and PA

Southeast is the sum of AL, FL, GA, MS, NC, SC and VA

Midwest is the sum of IA, IL, IN, MI, MN, NE, OH, WI, SD, MT and WY

California is the state of California only



ALL LAYERS BY REGION, INCLUDING BREEDERS (Million) - 2016

TABLE 12

month	Northeast	Southeast	South Central	Midwest	Northwest	California	U.S. Total
Jan	34.8	68.7	57.5	153.7	9.3	12.4	351.3
Feb	35.5	69.0	57.7	158.1	9.7	12.3	357.1
Mar	36.5	69.0	57.3	161.6	9.8	12.3	361.2
Apr	36.4	68.0	56.8	163.4	9.6	12.4	361.1
May	35.7	67.4	56.9	164.3	9.3	12.5	360.6
Jun	35.7	66.8	56.5	164.4	9.1	12.4	359.3
Jul	35.6	66.5	56.0	164.0	9.2	12.0	357.6
Aug	35.3	66.5	56.7	164.6	9.1	11.9	358.5
Sep	35.2	66.1	57.1	166.5	9.2	11.8	360.4
Oct	35.5	66.3	57.3	168.6	9.3	11.5	362.7
Nov	36.3	66.7	58.4	171.6	9.4	11.8	367.8
Dec	36.6	66.6	59.4	173.5	9.7	12.2	371.5
12 Month Avg.	35.8	67.3	57.3	164.5	9.4	12.1	360.8
% of total	9.9	18.7	15.9	45.6	2.6	3.4	

Source: USDA NASS Chickens and Eggs

Note: Year 2015 average for the following States were added: KY, LA, MA, MT, OK, TN, VT and WV

TABLE EGG LAYERS IN FLOCKS OF 30,000 AND ABOVE BY REGION (Million) - 2016

TABLE 13

month	Northeast	Southeast	South Central	Midwest	Northwest	California	U.S. Total
Jan	31.9	32.9	36.6	142.0	9.0	11.9	283.6
Feb	32.6	33.0	36.5	146.4	9.4	11.8	289.0
Mar	33.5	32.9	36.2	149.8	9.5	11.8	293.0
Apr	33.4	31.9	35.9	151.5	9.2	11.8	292.9
May	32.7	31.5	36.0	152.3	9.0	12.0	292.4
Jun	32.7	31.0	35.7	152.5	8.8	11.8	291.4
Jul	32.6	31.1	35.2	152.1	8.8	11.5	290.2
Aug	32.3	31.3	36.0	152.6	8.8	11.4	291.4
Sep	32.3	31.1	36.6	154.6	8.9	11.2	293.8
Oct	32.6	31.3	36.9	156.8	9.0	11.0	296.3
Nov	33.4	31.7	37.7	159.9	9.1	11.2	301.2
Dec	33.5	31.9	38.2	161.7	9.4	11.5	304.4
12 Month Avg.	32.8	31.8	36.5	152.7	9.1	11.6	293.3
% of total	11.2	10.8	12.4	52.1	3.1	3.9	

Source: USDA NASS Chickens and Eggs

* The drop in the Northeast region number is mostly explained by not having a count for CT and ME for the period after March

TOTAL MOLT (in-molt plus post-molt) BY REGION (Simple average of reporting States, %) - 2017

TABLE 14

month	Northeast	Southeast	South Central	Midwest	Northwest	California	U.S. Avg
Jan	3.2	26.8	24.4	11.6	14.0	18.5	23.8
Feb							
Mar							
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
1 Month Avg.	3.2	26.8	24.4	11.6	14.0	18.5	23.8
year 2015 avg.	3.9	21.2	25.9	20.5	23.3	29.9	21.6

Source: USDA NASS Chickens and Eggs

Note: average molt is estimated as the simple average of the reported States

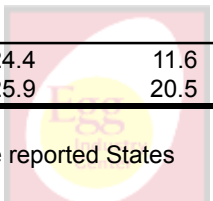


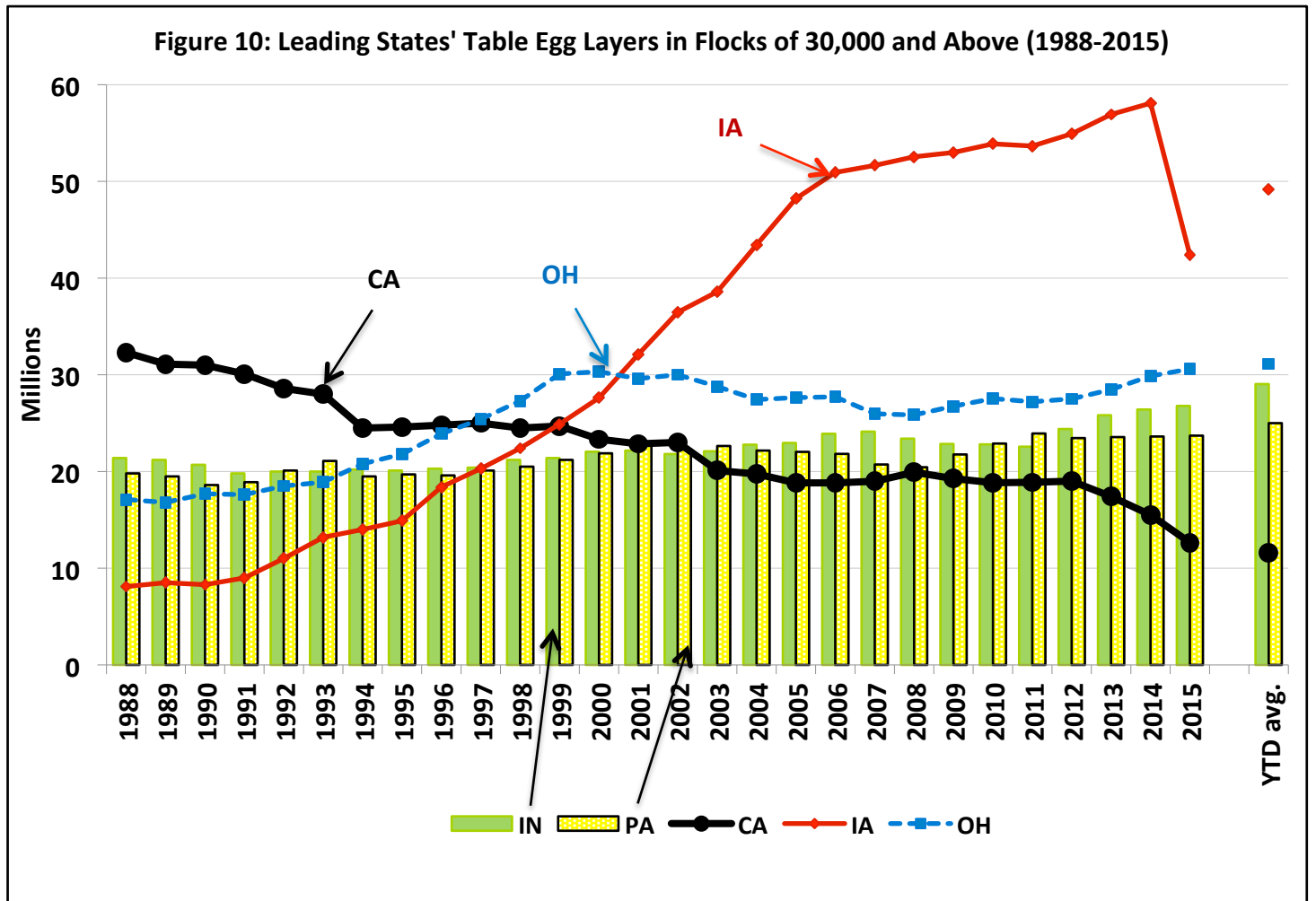
TABLE EGG LAYERS IN LEADING STATES - (LAYERS IN 30,000+ HEN FLOCKS) - 2016

TABLE 15

month	IA	OH	IN	PA	CA	TX	U.S.
Dec-2015	36.85	31.99	29.53	23.86	11.82	16.37	280.21
			(Millions)				
Jan-2016	40.08	32.01	29.07	23.89	11.87	16.55	283.56
Feb-2016	43.85	32.30	28.85	24.70	11.79	16.48	289.04
Mar-2016	46.48	32.02	29.23	25.64	11.81	16.45	292.95
Apr-2016	47.89	31.49	29.27	25.49	11.85	16.40	292.86
May-2016	48.72	31.16	29.28	25.01	12.00	16.33	292.42
Jun-2016	49.92	30.56	29.04	24.95	11.85	16.17	291.45
Jul-2016	50.78	30.00	28.34	24.76	11.46	16.17	290.16
Aug-2016	51.20	30.15	27.65	24.49	11.41	16.28	291.40
Sep-2016	51.91	30.64	27.61	24.51	11.24	16.18	293.76
Oct-2016	52.46	31.03	28.47	25.03	10.98	16.30	296.34
Nov-2016	53.30	31.15	30.21	25.72	11.19	16.63	301.20
Dec-2016	53.88	30.84	31.44	25.79	11.54	16.85	304.43
12 Month Avg.	49.21	31.11	29.04	25.00	11.58	16.40	293.30

Source: USDA NASS Chickens and Eggs

% of all U.S. table egg layers in flocks with 30,000 or more hens = 96.9%



PROJECTED U.S. EGG-TYPE HATCHERY SUPPLY FLOCK (Millions)

TABLE 16

month	2011	2012	2013	2014	2015	2016	2017
Jan	3.087	2.706	2.791	2.436	2.608	2.797	2.836
Feb	3.123	2.659	2.830	2.515	2.535	2.797	2.725
Mar	3.108	2.653	2.786	2.503	2.553	2.857	2.615
Apr	3.039	2.703	2.786	2.468	2.610	2.958	2.446
May	2.998	2.672	2.649	2.555	2.619	2.937	2.465
Jun	2.996	2.657	2.745	2.476	2.664	2.947	2.549
Jul	2.883	2.672	2.579	2.540	2.682	3.081	
Aug	2.848	2.731	2.613	2.536	2.689	3.074	
Sep	2.877	2.732	2.630	2.472	2.605	2.997	
Oct	2.779	2.819	2.588	2.530	2.718	2.840	
Nov	2.755	2.778	2.515	2.497	2.917	2.805	
Dec	2.713	2.791	2.537	2.439	2.892	2.866	
6 month avg.	3.059	2.675	2.764	2.492	2.598	2.882	2.606
12 month avg.	2.934	2.714	2.671	2.497	2.674	2.913	

Source: USDA NASS Chickens and Eggs

Note: The hatchery supply flock estimates are made by using 7 to 18 months prior hatch minus 9% mortality

PULLETS TO BE HOUSED BASED UPON U.S. HATCH 5 MONTH AGO (Millions)

TABLE 17

(47.5% of CHICKS PLACED multiplied by a 95% LIVABILITY FACTOR)

month	2012	2013	2014	2015	2016	2017	2012 to '16 month avg.
Jan	18.7	19.1	17.5	17.9	21.3	19.8	18.9
Feb	17.4	16.1	17.8	18.4	21.5	19.3	18.2
Mar	17.0	17.1	19.2	20.2	22.7	19.9	19.2
Apr	16.9	16.5	18.9	16.5	20.7	19.1	17.9
May	17.6	18.5	18.6	18.2	21.1	20.9	18.8
Jun	18.0	19.1	19.4	18.0	20.8		19.1
Jul	19.5	21.1	20.6	20.7	24.4		21.3
Aug	19.4	19.7	20.2	21.4	25.7		21.3
Sep	19.5	20.8	20.9	21.4	23.0		21.1
Oct	20.1	22.6	22.4	21.8	25.8		22.6
Nov	17.5	19.1	20.0	21.3	26.2		20.8
Dec	16.2	18.0	19.2	19.3	19.1		18.4
5 month avg.	17.5	17.5	18.4	18.2	21.4	19.8	18.6
Annual Avg.	18.2	19.0	19.5	19.6	22.7		19.8
Total	218.0	227.7	234.6	235.1	272.2		237.5

Source: USDA NASS Chickens and Eggs

% Change to date

-7.77

Note: The number of pullets to be housed was reduced by 6 million based on the number reported as lost to avian influenza. We assumed the reduction as evenly spread during the period between May and September 2015 (assuming that the ages of affected birds was evenly distributed).



PROJECTED U.S. TABLE EGG FLOCK MORE THAN 70 WEEKS OF AGE (% of layers)

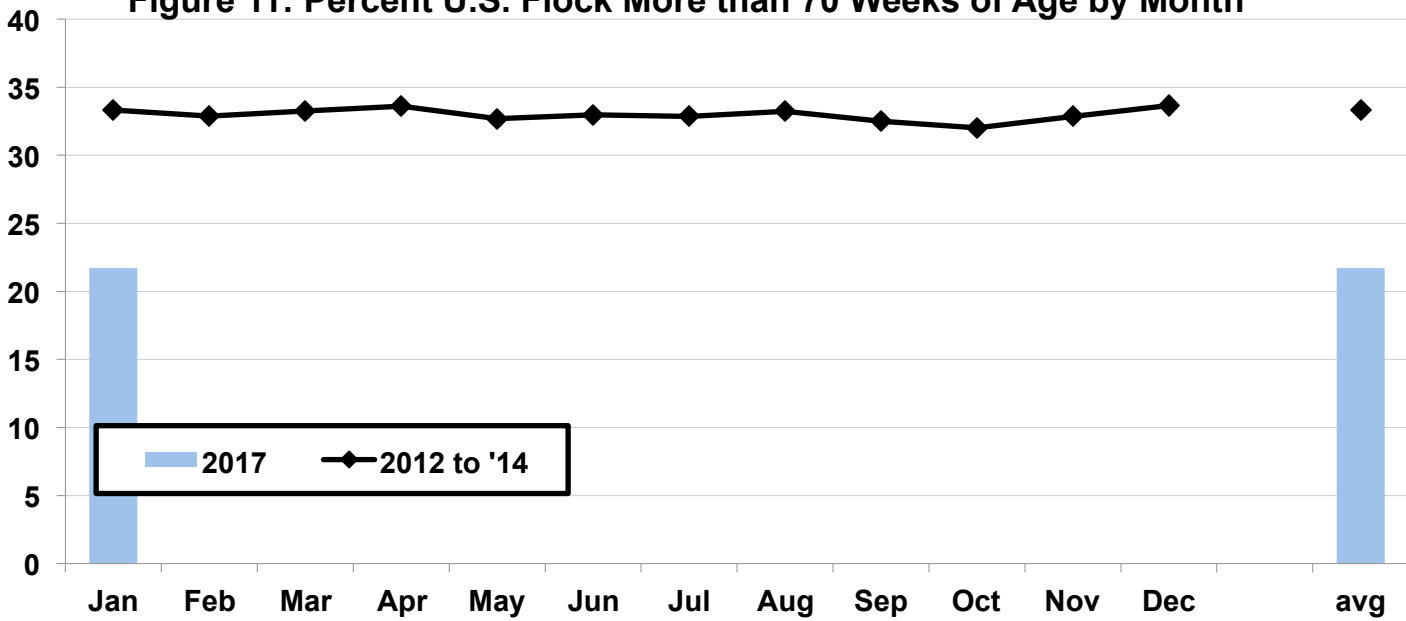
TABLE 18

	% of National Flock over 70 weeks of age (on the 1st of the month)							2012 to '14
	2012	2013	2014	2015	2016	2017		
Jan	32.7	34.1	33.1	31.9		21.7	33.3	
Feb	32.7	34.1	31.8	30.6			32.9	
Mar	33.0	34.9	31.8	31.5			33.3	
Apr	33.4	34.9	32.5				33.6	
May	32.4	33.5	32.2				32.7	
Jun	32.8	33.8	32.2				33.0	
Jul	32.5	33.7	32.4				32.9	
Aug	32.5	33.7	33.4				33.2	
Sep	32.3	32.7	32.5				32.5	
Oct	32.5	31.4	32.1				32.0	
Nov	34.4	32.6	31.5		21.6		32.9	
Dec	34.9	33.2	32.8		21.0		33.6	
1 month avg.	32.7	34.1	33.1	31.9		21.7	33.3	
12 month avg.	33.0	33.6	32.4				33.0	

Source: Egg Industry Center based on USDA NASS Chickens and Eggs data

Note: The number of layers younger than 70 weeks of age are estimated as the sum of the Egg-Type Chicks Hatched between 6 and 16 months before adjusted by a 47.5% of CHICKS PLACED multiplied by a 95% LIVABILITY FACTOR for pullets and a 98% average LIVABILITY FACTOR FOR LAYERS between 20 and 70 weeks of age.

Figure 11: Percent U.S. Flock More than 70 Weeks of Age by Month



FLOCK SIZE PROJECTION

The U.S. flock size is projected for the current year and the following year for each month. Projections start with the first of the month official USDA count and are then adjusted monthly. Adjustments are made considering the most recent:

1. Hatch data (projected 5-months into the future with mortality). Subsequent pullets added are estimated using the linear regression listed below for each month.

Added /Beginning ratio estimated as: $0.0501 + 0.0077 * \text{Price 12-18_Jan} + 0.0058 * \text{Price 12-18_Feb} + 0.0085 * \text{Price 12-18_Mar} + 0.0052 * \text{Price 12-18_Apr} + 0.0083 * \text{Price 12-18_May} + 0.0108 * \text{Price 12-18_Jun} + 0.0167 * \text{Price 12-18_Jul} + 0.0175 * \text{Price 12-18_Aug} + 0.0163 * \text{Price 12-18_Sep} + 0.0173 * \text{Price 12-18_Oct} + 0.0128 * \text{Price 12-18_Nov} + 0.0058 * \text{Price 12-18_Dec} + 0.0098 * \text{Post Shock HPAI 6-12 mo}$

... where "Egg Price 12-18 mo earlier" is the average price of Midwest Large eggs for the months 12 to 18 before the month we are trying to project

... where "Post Shock HPAI 6-12 mo" is a dummy variable to account for the higher than normal replacement rate observed 6 to 12 months after the HPAI outbreak

Adjusted R²=0.79

2. All birds coming out of production by any reason are included in the "Slaughter, Died and Missing" category. This is estimated as Beginning count + Added - Ending count. Subsequent layers coming out of production are estimated using the linear regression listed below for each month.

Slaughter, Died & Missing/Beginning ratio estimated as: $0.0256 + 0.5694 * \text{Added /Beg. count} + 0.0035 * \text{Jan} - 0.0040 * \text{Feb} + 0.0005 * \text{Mar} + 0.0071 * \text{Apr} + 0.0037 * \text{May} + 0.0026 * \text{Jun} + 0.0024 * \text{Jul} - 0.0024 * \text{Aug} - 0.0013 * \text{Sep} - 0.0039 * \text{Oct} - 0.0106 * \text{Nov} + 0.0166 * \text{Shock_Apr} + 0.0838 * \text{Shock_May} + 0.0224 * \text{Shock_Sep} + 0.0029 * \text{CPI adjusted Shell \$ under 0.60}$

... where "Added /Beg. count " is the ratio between the pullets added and the beginning flock count for the month we are trying to project

... where "Shock_Apr" and "Shock_May" are dummy variables to capture the losses experienced in April and May 2015 as a result of HPAI outbreak.

... where "Shock_Sep" is a dummy variable to capture the losses experienced after the year 2010 SE recall

... where "CPI adjusted Shell \$ under 0.60" is a dummy variable that takes the value 1 if the Midwest Large White egg price adjusted by CPI is under 60 cents/dozen (equal to almost 84 cents in January 2017). CPI is the consumer price index of all food and beverages with base on the year 2001.

Adjusted R²=0.77

First of the Month Projection Estimates of U.S. Table Egg Layers (millions)

TABLE 19

Actual	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
314.0	313.4	314.9	315.3	312.3	311.2	309.7	308.8	310.2	311.0	312.6	316.0

Project. Year end: **Dec, 2017 - 315.3**

Note: Actual values source = Chickens and Eggs Report - USDA NASS

Note: there is a lot of uncertainty still around the flock projection given that the exports are still a lot lower than in 2013-2014 and the very low prices egg producers are facing.



Date calculated: 2/8/2017

2017 Bird Flow by Month

Table 20

ACTUAL FLOCK (million birds)				
	Beginning Count	Pullets added ¹	Slaughter, Died & Missing	Ending count
Jan-17	314.0	19.8		
Feb-17		19.3		
Mar-17		19.9		
Apr-17		19.1		
May-17		20.9		
Jun-17				
Jul-17				
Aug-17				
Sep-17				
Oct-17				
Nov-17				
Dec-17				
Jan-18				
Feb-18				
Mar-18				
Apr-18				
May-18				
Jun-18				
Jul-18				
Aug-18				
Sep-18				
Oct-18				
Nov-18				
Dec-18				

¹ at 5 months of age

Table 21

PROJECTED FLOCK (million birds)				
	Beginning Count	Pullets added ¹	Slaughter, Died & Missing	Ending count
Jan-17	314.0	19.8	20.4	313.4
Feb-17	313.4	19.3	17.7	314.9
Mar-17	314.9	19.9	19.5	315.3
Apr-17	315.3	19.1	22.1	312.3
May-17	312.3	20.9	21.9	311.2
Jun-17	311.2	18.9	20.4	309.7
Jul-17	309.7	20.2	21.0	308.8
Aug-17	308.8	19.8	18.4	310.2
Sep-17	310.2	19.3	18.6	311.0
Oct-17	311.0	19.5	17.9	312.6
Nov-17	312.6	18.6	15.3	316.0
Dec-17	316.0	17.3	18.0	315.3
Jan-18				
Feb-18				
Mar-18				
Apr-18				
May-18				
Jun-18				
Jul-18				
Aug-18				
Sep-18				
Oct-18				
Nov-18				
Dec-18				

¹ at 5 months of age

Actual number



2017 United States Flock Size Projections

Table 22

For January 2017		USDA preliminary	Estimated number of U.S. table egg layers (million) on the 1 st of each month											
Estimated	2017	Actual count	Month Number of Layers Projected for 2017/2018											
For	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec		
Jan-17	314.0													
Feb-17	313.4													
Mar-17	314.9													
Apr-17	315.3													
May-17	312.3													
Jun-17	311.2													
Jul-17	309.7													
Aug-17	308.8													
Sep-17	310.2													
Oct-17	311.0													
Nov-17	312.6													
Dec-17	316.0													
Jan-18														
Feb-18														
Mar-18														
Apr-18														
May-18														
Jun-18														
Jul-18														
Aug-18														
Sep-18														
Oct-18														
Nov-18														
Dec-18														

THIS PAGE HELPS VISUALIZE CHANGES IN FLOCK PROJECTIONS AS THE YEAR EVOLVES



Figure 12: U.S. Monthly Table-Egg Layers (2006-2016)

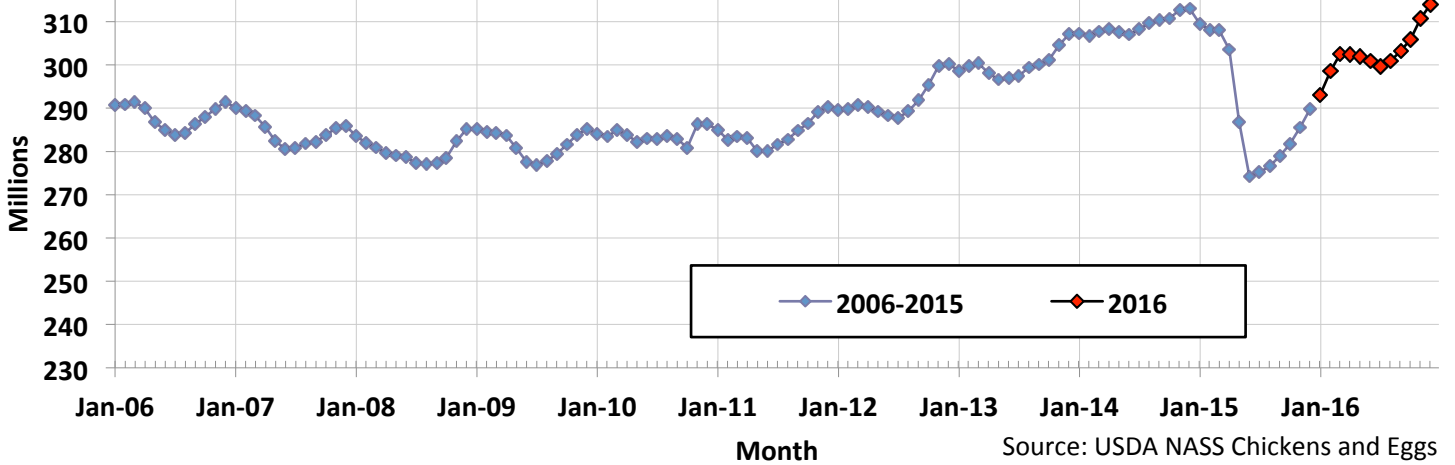


Figure 13: U.S. Table Eggs per Hundred Hens per Day by Month (2006-2016)

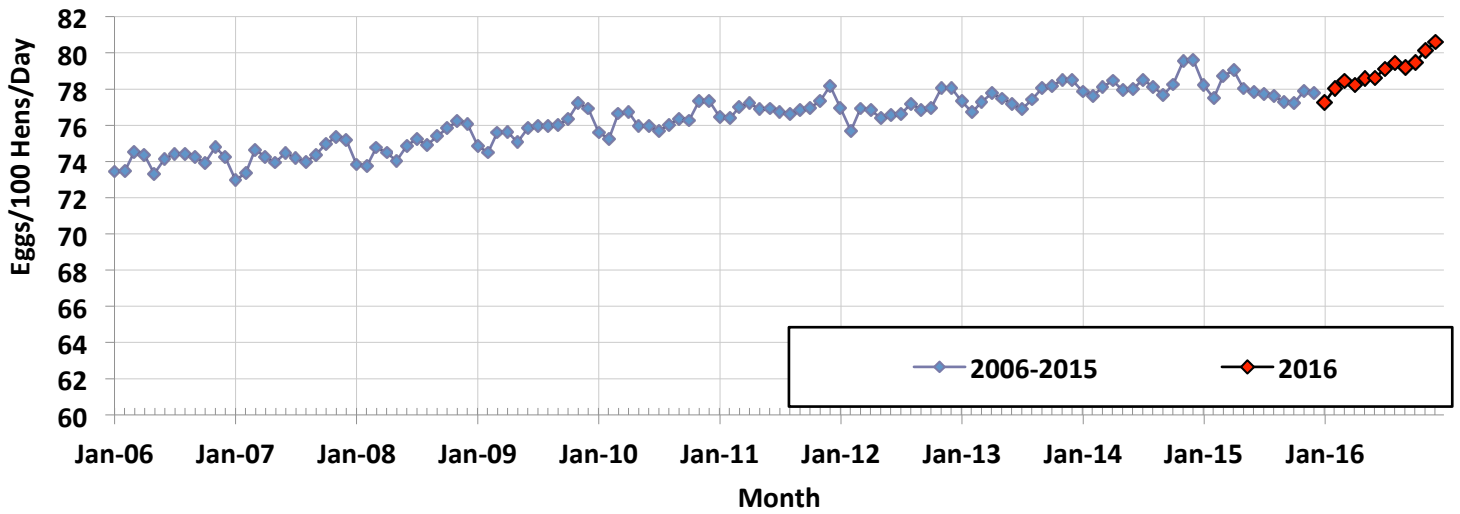


Figure 14: Monthly Percent of U.S. Flock Molted (2006-2016)

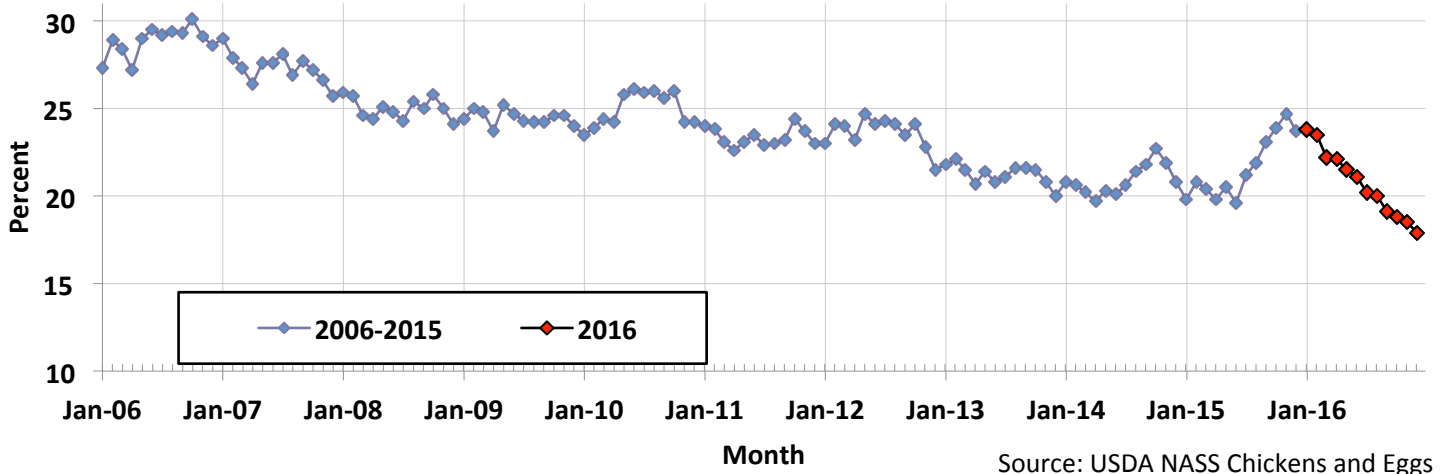
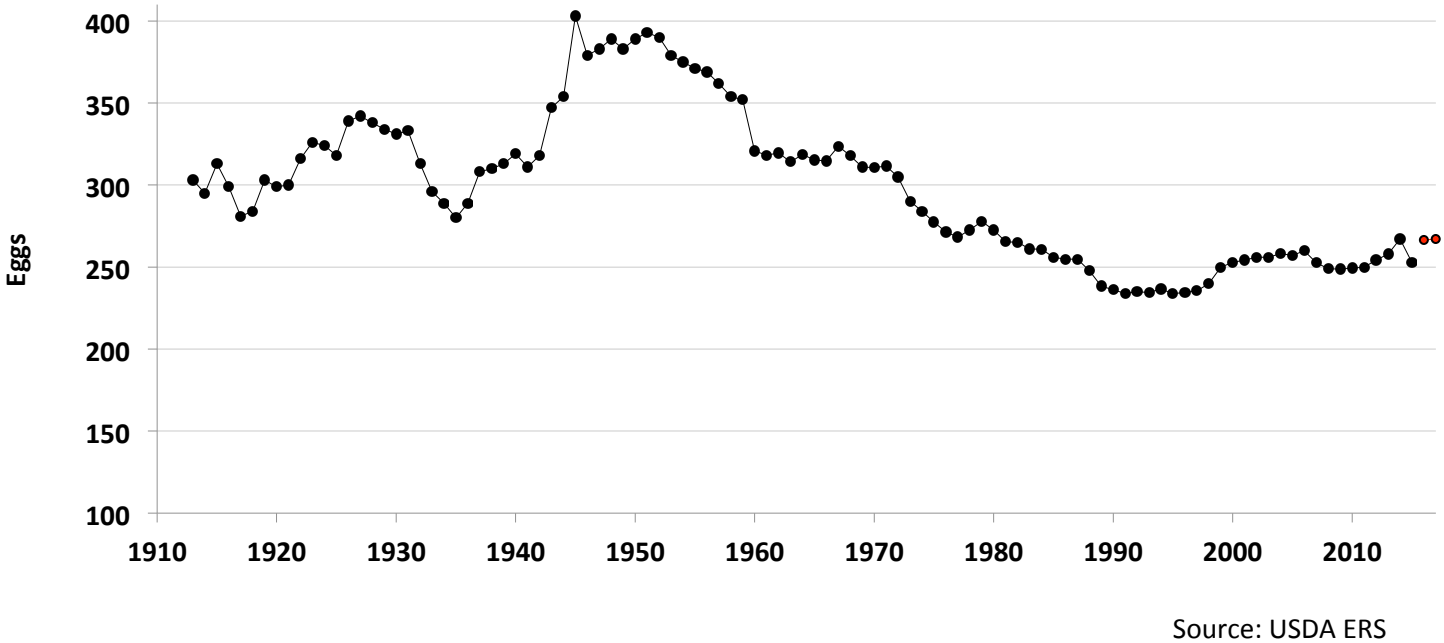


Figure 15: U.S. Per Capita Egg Consumption by Year (1913-2017)



SUMMARY TO DATE

Table 23

		2015	2016	% Change
HATCH of EGG-TYPE STRAIGHT RUN (THOUSANDS) (U.S.) (Total)	Jan to Dec	565,598	585,952	3.6
TABLE-EGG LAYERS (MILLIONS) (U.S.) (Avg.)	Jan to Dec	289.8	302.8	4.5
TABLE EGGS (MILLIONS/MONTH) (U.S.) (Avg.)	Jan to Dec	6,866	7,291	6.2
RATE OF LAY (%) (Avg.)	Jan to Dec	77.9	78.9	1.0
U.S. TABLE EGG AVG. CASES/WEEK (THOUSANDS)	Jan to Dec	1,580	1,678	6.2
AVG MONTHLY CASES OF EGGS BROKEN (MILLION) (U.S.)	Jan to Dec	5.845	6.368	8.9
		2016	2017	Difference
PERCENT OF U.S. FLOCK IN or POST MOLT (Avg.)	Jan to Jan	23.8	17.1	-6.7
AVVERAGE PULLETS ADDED/MONTH (MILLIONS) (U.S.)	Jan to May	21.4	19.8	-1.7

Note: U.S. cost of production and egg prices are published in another Egg Industry Center report. Contact Maro Ibarburu at maro@iastate.edu to be placed on the mailing list to receive monthly copies of these reports.

Webpages of some of the sources of information,

Access these sites by clicking on the blue addresses below:

- University of California Poultry Page <http://animalscience.ucdavis.edu/avian/>
- USDA NASS Chickens and Eggs <http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1028>
- USDA NASS Poultry Slaughter <http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1131>
- USDA NASS Egg Products <http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1057>
- USDA ERS Livestock and Meat Trade Data. <http://www.ers.usda.gov/data/MeatTrade/BroilerTurkeyMonthly.htm>
- USDA FAS <http://www.fas.usda.gov/gats/ExpressQuery1.aspx>
- USDA NASS Cold Storage <http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1034>
- USDA AMS Poultry Market News and Analysis <http://marketnews.usda.gov/portal/py>

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