

# U.S. Flock Trends and Projections

July 11, 2016



*Compiled by*  
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*Sponsored in part by:*



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 May hatch (straight-run chicks) was 18.2% higher than in 2015. This projects forward to a 25.8 million pullet placement for October of 2016 which is 4.0 million larger than October of 2015 placement (21.8).

\* Current (May average, 2016) U.S. table egg layer number (302.0 million) is 5.3 million larger than last year's number at this time (286.8 million), and down 0.4 million compared to last month (302.4 million).

\* In May, Iowa led the nation with 48.7 million laying hens compared to 31.2 million in Ohio, 29.3 million in Indiana, and 25.0 million in Pennsylvania. California (with 11.9 million layers) lost it's 5th position to Texas with 16.3 million layers.

\* The May U.S. rate of lay was estimated to be 78.6% which is 0.5% higher than May 2015 level. The total number of table eggs produced in May 2016 was 6.0% higher than the May 2015 production.

\* The May 2016 number of eggs exported was 34% lower than last year (May 2015) and 14% lower than last month (April 2016). The May exports represented 2.4% of the number of eggs produced.

\* Shell eggs broken for products in May 2016 totaled 6.576 million cases, 18.9% more than in May 2015 (5.553 million cases).

\* The egg-type hatchery supply flock is projected to be 10% higher in Jan-Nov 2016 than in Jan-Nov 2015 (table 16).

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

	2014	2015	% Change
Hatch - Egg-Type Straight Run (thousands) (U.S.)	48,315	57,131	18.2
Table Egg Layers (millions) (U.S.)	286.8	302.0	5.3
Rate of lay (percent)	78.1	78.6	0.5
Molting (June 1, 2016) (percent in + out of a molt)	19.6	21.1	7.7

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

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Million	290.6	284.7	285.6	285.2	286.8	290.1	298.6	308.2	311.3	291.1	325.2*

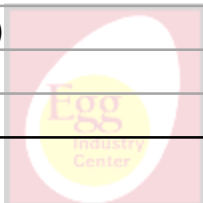
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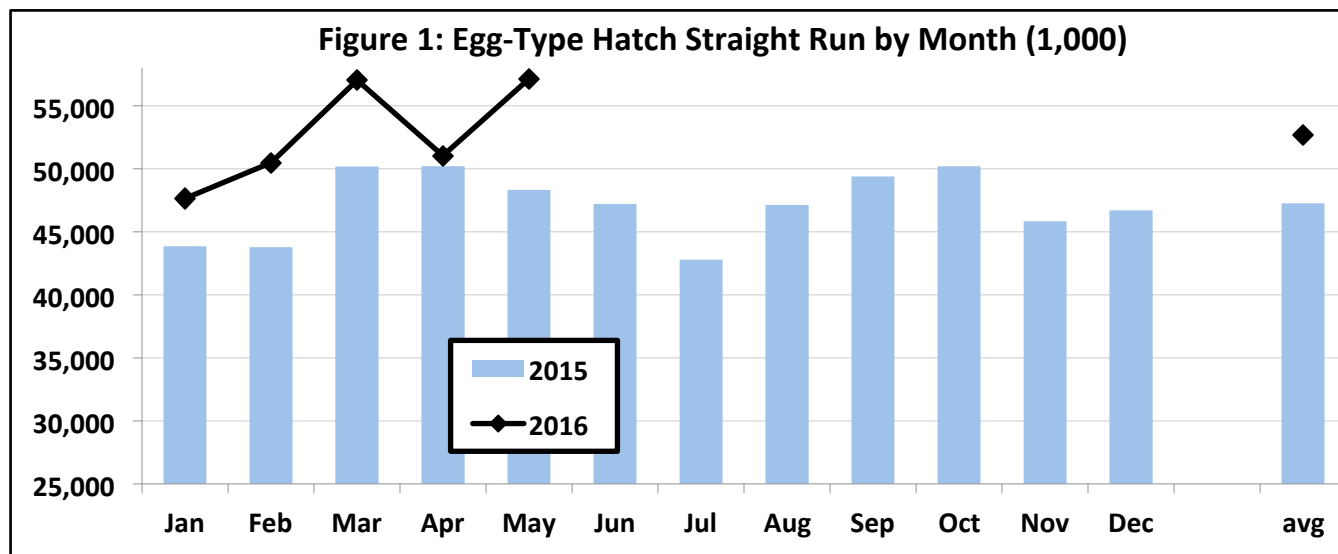
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**EGG TYPE: EGGS IN INCUBATORS (on the 1st of the month) and STRAIGHT RUN HATCH (U.S.)** **TABLE 1**

EGG-TYPE Eggs in Incubators (thousands)				EGG-TYPE Straight Run Hatch (thousands)			
month	2015	2016	Change (%)	month	2015	2016	Change %
Jan	42,237	47,981	13.6	Jan	43,868	47,645	8.6
Feb	40,709	47,942	17.8	Feb	43,774	50,481	15.3
Mar	45,902	50,402	9.8	Mar	50,187	57,037	13.6
Apr	49,341	50,861	3.1	Apr	50,193	51,052	1.7
May	48,583	53,478	10.1	May	48,315	57,131	18.2
Jun	47,971	54,912	14.5	Jun	47,212		
Jul	43,647			Jul	42,790		
Aug	44,480			Aug	47,131		
Sep	46,521			Sep	49,391		
Oct	49,648			Oct	50,194		
Nov	47,072			Nov	45,848		
Dec	48,194			Dec	46,695		
<b>6 Month Avg.</b>	45,791	50,929	11.2	<b>5 Month Avg.</b>	47,267	52,669	11.4
<b>6 Month Total</b>	274,743	305,576		<b>5 Month Total</b>	236,337	263,346	
<b>12 Month Total</b>	554,305			<b>12 Month Total</b>	565,598		

Source: USDA NASS Chickens and Eggs

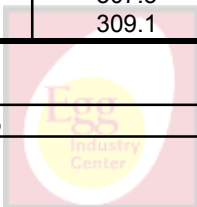


**AVERAGE U.S. LAYERS AND TABLE EGG LAYERS 2014/2015 (MILLIONS)** **TABLE 2**

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	302.0	5.3
Jun	332.6			307.0	274.2		
Jul	333.3			308.2	275.1		
Aug	334.5			309.6	276.6		
Sep	336.6			310.4	278.9		
Oct	339.4			310.7	281.7		
Nov	343.5			312.7	285.5		
Dec	347.8			313.0	289.7		
<b>5 Month Avg.</b>	361.1	358.3	-0.8	307.5	303.2	299.7	-1.2
<b>Annual Avg.</b>	347.8			309.1	289.8		

Source: USDA NASS Chickens and Eggs

**Table egg layers as a % of all layers to date (2015): 83.6%**

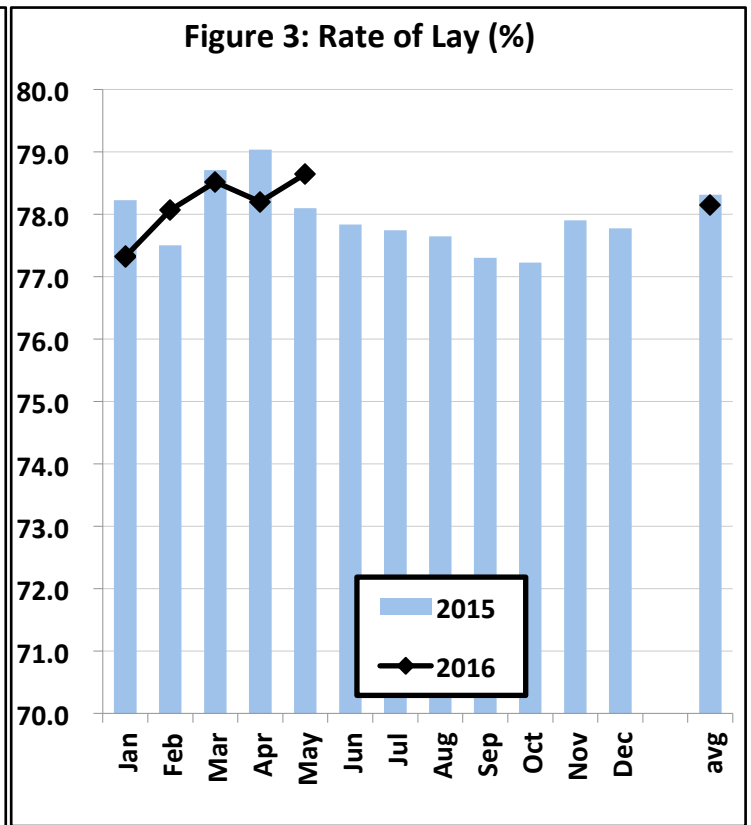
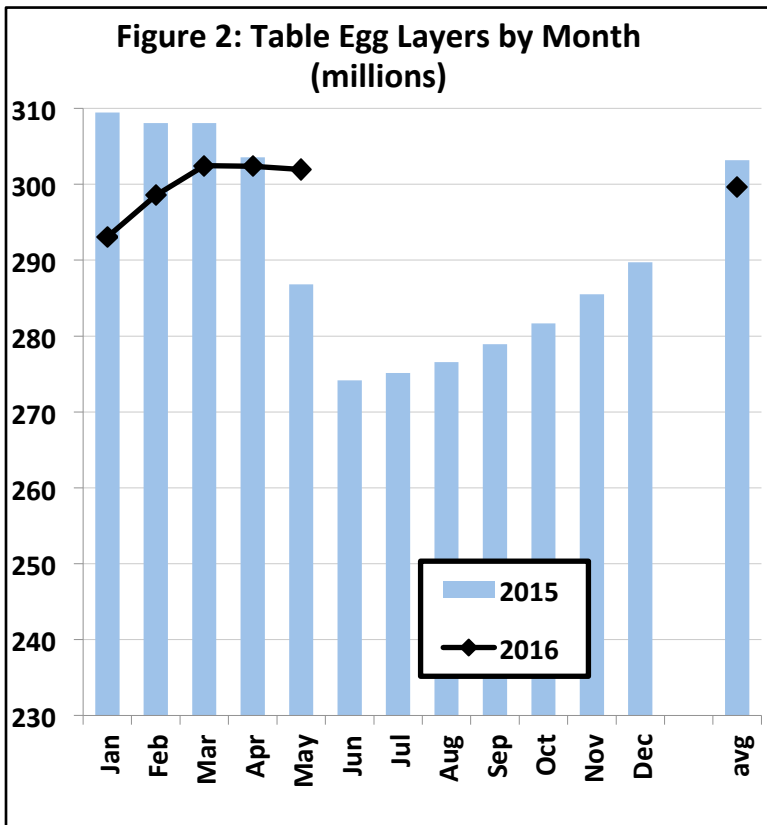


U.S. ALL EGGS, TABLE EGGS AND RATE OF LAY (ALL STATES)

TABLE 3

month	All Eggs (millions)			Table Eggs - human consumption (millions)			Rate of Lay (Table)	
	2015	2016	Change (%)	2015	2016	Change (%)	2015	2016
Jan	8,613	8,161	-5.2	7,504	7,024	-6.4	78.2	77.3
Feb	7,688	7,825	1.8	6,685	6,759	1.1	77.5	78.1
Mar	8,635	8,502	-1.5	7,517	7,363	-2.0	78.7	78.5
Apr	8,294	8,208	-1.0	7,198	7,095	-1.4	79.0	78.2
May	8,083	8,516	5.4	6,942	7,361	6.0	78.1	78.6
Jun	7,512			6,402			77.8	
Jul	7,778			6,630			77.7	
Aug	7,802			6,656			77.6	
Sep	7,565			6,467			77.3	
Oct	7,874			6,744			77.2	
Nov	7,764			6,673			77.9	
Dec	8,119			6,986			77.8	
<b>5 Month Avg.</b>	8,263	8,242	-0.2	7,169	7,120	-0.7	78.3	78.2
<b>Annual Avg.</b>	7,977			6,867			77.9	
<b>Total</b>	95,727	41,212		82,404	35,602			

Source: USDA NASS Chickens and Eggs



SHELL EGGS BROKEN UNDER FEDERAL INSPECTION (MILLION CASES)

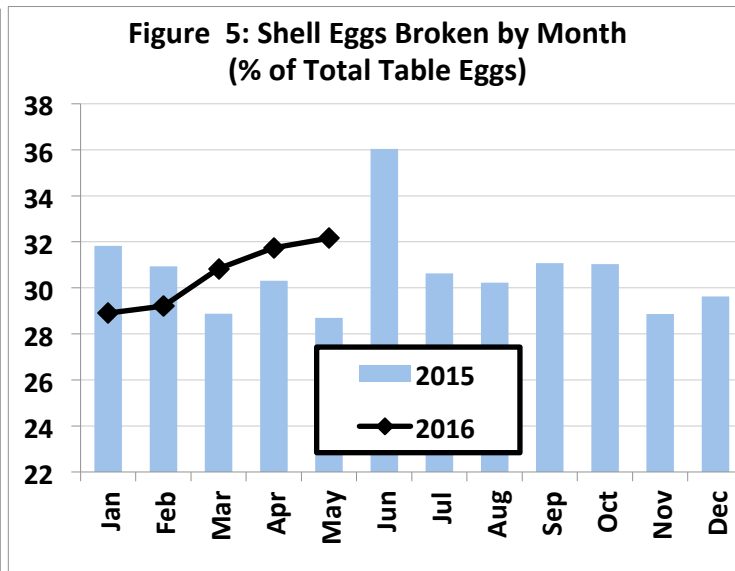
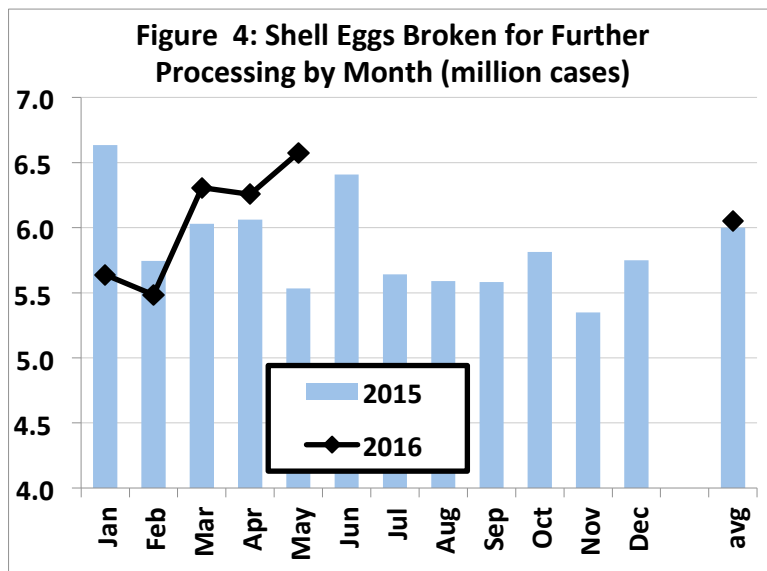
TABLE 4

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		
Jul	5.977	5.988	5.748	6.266	6.618	5.641		
Aug	5.884	6.061	6.523	6.200	6.596	5.589		
Sep	6.582	5.869	6.005	6.040	6.566	5.583		
Oct	5.842	5.805	6.109	6.289	6.731	5.814		
Nov	5.445	5.786	5.577	5.738	6.086	5.350		
Dec	5.891	5.615	5.964	5.745	6.281	5.749		
<b>5 Month Avg.</b>	5.445	5.628	5.719	5.748	5.999	6.001	6.052	0.9
<b>5 Month Total</b>	27.227	28.141	28.595	28.740	29.996	30.003	30.262	
<b>12 Month Total</b>	69.054	69.431	70.477	71.136	75.405	70.138		

Source: USDA NASS Egg products - monthly

Million Cases Produced  
% BROKEN

221.728	228.286	236.092	245.472	228.900	98.894
31.3	30.9	30.1	30.7	30.6	30.6



PER CAPITA EGG CONSUMPTION BY QUARTER

TABLE 5

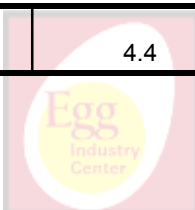
QUARTER	2009	2010	2011	2012	2013	2014	2015	2016*
1	62.0	61.8	61.3	63.2	64.3	65.5	65.0	66.2
2	61.5	61.9	61.5	62.2	63.4	66.2	62.3	65.4
3	61.4	62.5	62.8	63.3	64.7	67.2	61.1	65.1
4	62.9	63.1	64.3	65.6	66.2	67.7	64.5	66.1
<b>Total</b>	<b>247.7</b>	<b>249.3</b>	<b>249.9</b>	<b>254.3</b>	<b>258.6</b>	<b>266.6</b>	<b>252.9</b>	<b>262.8</b>

Change from previous year (eggs)

1.6	0.6	4.4	4.3	8.0	-13.7	9.9
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Source: USDA ERS Livestock and Meat Trade Data.

\* Estimates for 2016 (5/2016)

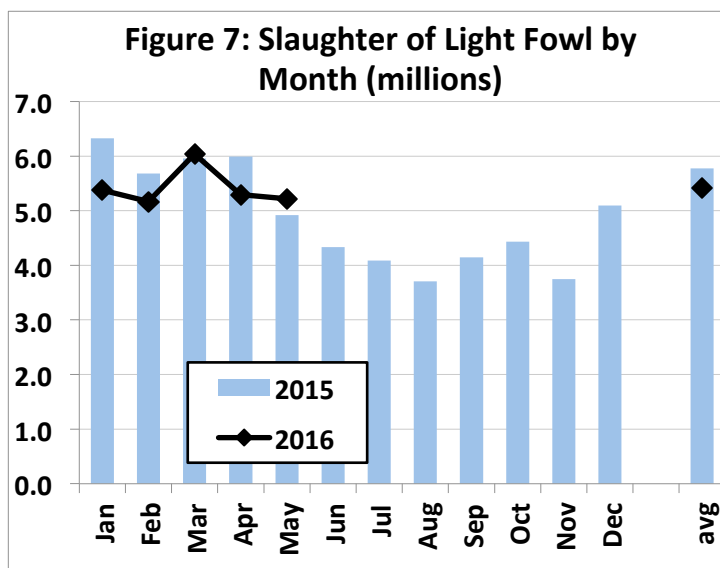
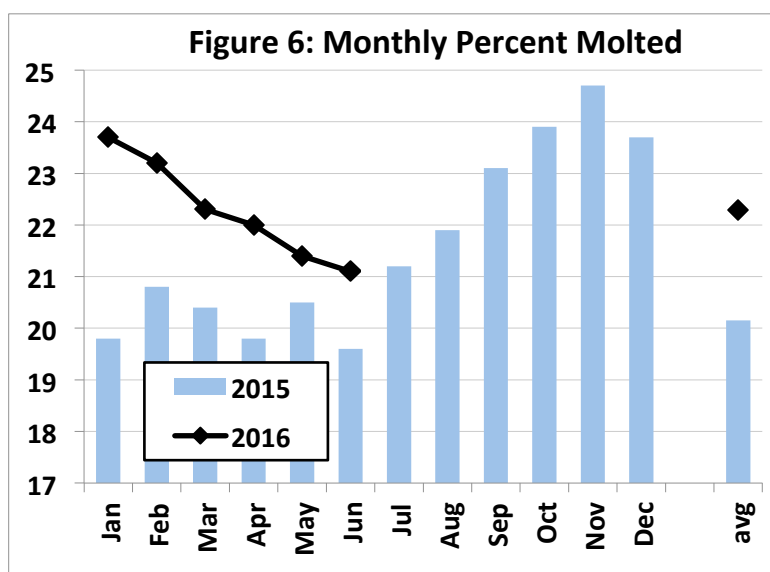


INDUCED MOLT PERCENT - U.S. TOTALS (1ST OF MONTH)

TABLE 6

month	In a Molt			Completed a Molt		Total		
	2015	2016	Change	2015	2016	2015	2016	Change
Jan	2.1	2.5	0.4	17.7	21.2	19.8	23.7	3.9
Feb	3.3	2.6	-0.7	17.5	20.6	20.8	23.2	2.4
Mar	1.9	1.4	-0.5	18.5	20.9	20.4	22.3	1.9
Apr	2.1	2.9	0.8	17.7	19.1	19.8	22.0	2.2
May	3.1	2.7	-0.4	17.4	18.7	20.5	21.4	0.9
Jun	2.4	2.8	0.4	17.2	18.3	19.6	21.1	1.5
Jul	3.0			18.2		21.2		
Aug	2.7			19.2		21.9		
Sep	3.4			19.7		23.1		
Oct	3.4			20.5		23.9		
Nov	3.4			21.3		24.7		
Dec	1.8			21.9		23.7		
<b>6 Month Avg.</b>	<b>2.5</b>	<b>2.5</b>	<b>0.0</b>	<b>17.7</b>	<b>19.8</b>	<b>20.2</b>	<b>22.3</b>	<b>2.1</b>
<b>12 Month Avg.</b>	<b>2.7</b>			<b>18.9</b>		<b>21.6</b>		

Source: USDA NASS Chickens and Eggs

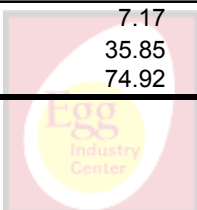


SLAUGHTER OF LIGHT FOWL (MILLIONS)

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		5.54
Jul	5.42	5.00	4.45	5.60	5.32	4.09		4.98
Aug	5.64	5.85	6.00	6.81	6.13	3.71		5.69
Sep	6.12	5.68	5.39	5.50	5.80	4.14		5.44
Oct	5.01	5.56	5.60	5.73	5.57	4.44		5.32
Nov	4.07	4.92	5.12	3.59	3.75	3.75		4.20
Dec	5.63	5.60	6.89	6.45	6.47	5.10		6.02
<b>5 Month Avg.</b>	<b>5.98</b>	<b>6.09</b>	<b>7.11</b>	<b>7.17</b>	<b>6.54</b>	<b>5.78</b>	<b>5.42</b>	<b>6.44</b>
<b>5 Month Total</b>	<b>29.89</b>	<b>30.46</b>	<b>35.55</b>	<b>35.85</b>	<b>32.70</b>	<b>28.88</b>	<b>27.09</b>	<b>32.22</b>
<b>12 Month Total</b>	<b>67.66</b>	<b>68.37</b>	<b>75.25</b>	<b>74.92</b>	<b>71.80</b>	<b>58.42</b>		<b>69.40</b>

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									322.4	
Jul									321.8	
Aug									421.7	
Sep									305.7	
Oct									328.1	
Nov									279.3	
Dec									262.2	
<b>5 Mo. Total</b>	<b>644.1</b>	<b>12.3</b>	<b>396.9</b>	<b>1.2</b>	<b>448.6</b>	<b>0.2</b>	<b>17.8</b>	<b>1,582.4</b>	<b>2,377.8</b>	<b>1.60</b>
<b>%</b>	<b>40.7</b>	<b>0.8</b>	<b>25.1</b>	<b>0.1</b>	<b>28.4</b>	<b>0.0</b>	<b>1.1</b>			

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	1.42
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	1.08
Jun									194.7	
Jul									194.3	
Aug									254.1	
Sep									297.5	
Oct									211.7	
Nov									157.0	
Dec									324.1	
<b>5 Mo. Total</b>	<b>417.3</b>	<b>44.4</b>	<b>37.3</b>	<b>101.4</b>	<b>410.1</b>	<b>39.2</b>	<b>15.5</b>	<b>1,079.6</b>	<b>2,204.4</b>	<b>1.09</b>
<b>%</b>	<b>38.7</b>	<b>4.1</b>	<b>3.5</b>	<b>9.4</b>	<b>38.0</b>	<b>3.6</b>	<b>1.4</b>			

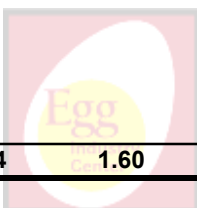
Converted from metric tonnes at a rate of one metric tonne equals approximately 52.4 thirty dozen cases.

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

TOTAL EGGS EXPORTED - 2016

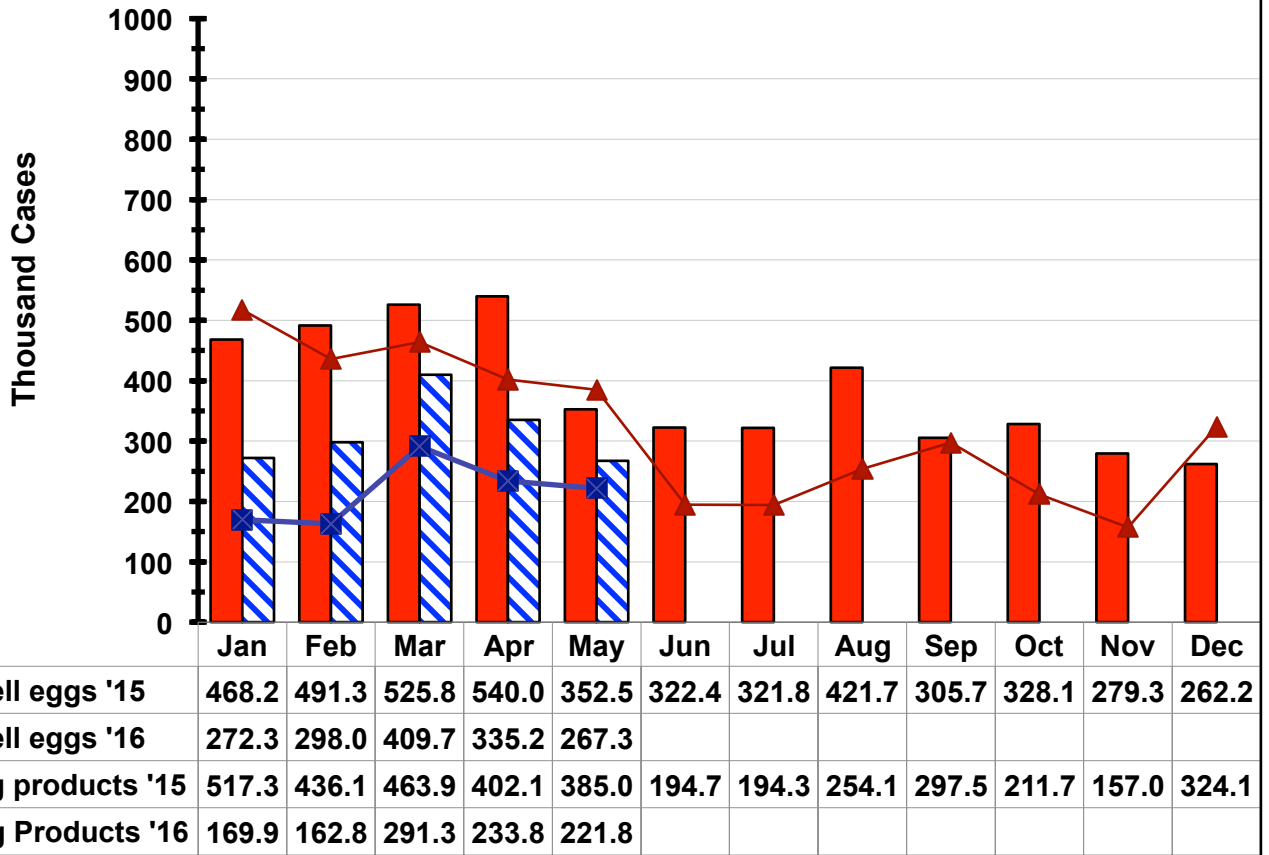
TABLE 10

	Table Eggs Produced		Table Eggs Exported		Egg Products Exported		Total Exported	
	(000) Cases		Cases	% of U.S.	Cases	% of U.S.	Cases	% of U.S.
Jan		19,511	272.3	1.40	169.9	0.87	442.1	2.27
Feb		18,775	298.0	1.59	162.8	0.87	460.8	2.45
Mar		20,453	409.7	2.00	291.3	1.42	700.9	3.43
Apr		19,708	335.2	1.70	233.8	1.19	569.0	2.89
May		20,447	267.3	1.31	221.8	1.08	489.1	2.39
Jun								
Jul								
Aug								
Sep								
Oct								
Nov								
Dec								
<b>Total/Av</b>		<b>98,894</b>	<b>1,582.4</b>	<b>1.60</b>	<b>1,079.6</b>	<b>1.09</b>	<b>2,662.0</b>	<b>2.69</b>



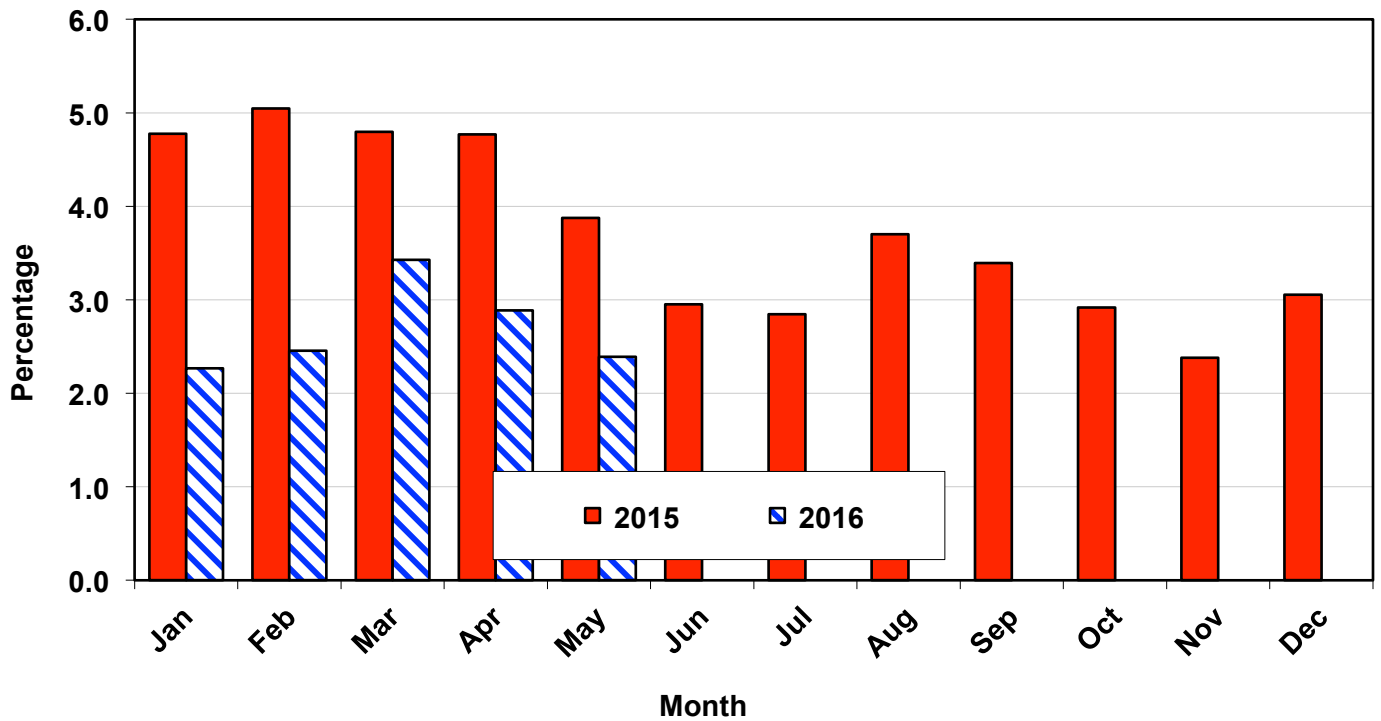


**Figure 8: U.S. Egg Exports by Month - 2015 and 2016**



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

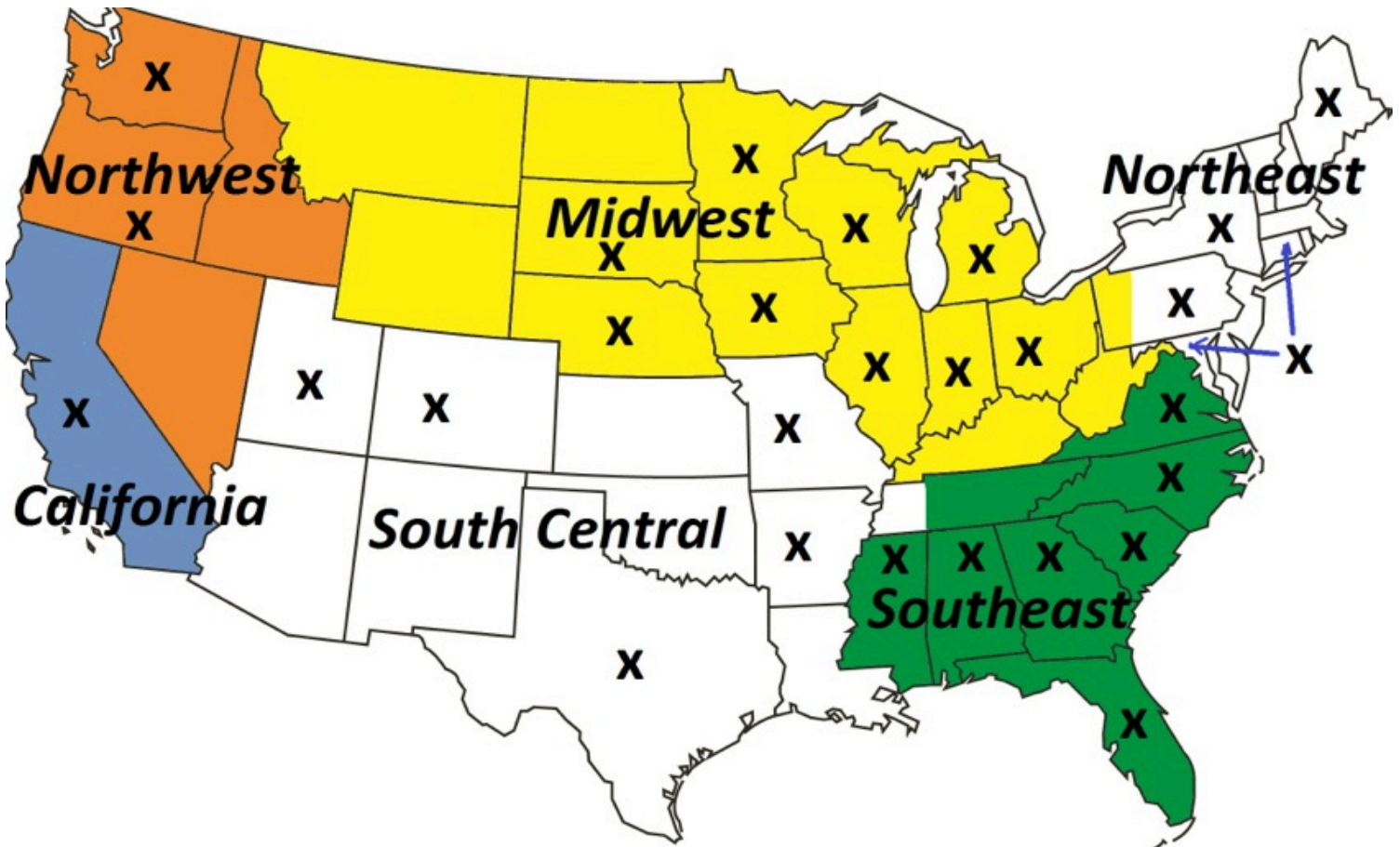
month	Northeast	Southeast	South Central	Midwest	Northwest	California	U.S. Total
Jan	864	1,506	1,210	3,584	227	297	8,161
Feb	841	1,408	1,210	3,457	224	276	7,825
Mar	934	1,486	1,210	3,736	247	297	8,502
Apr	903	1,406	1,210	3,704	226	291	8,208
May	911	1,441	1,210	3,827	229	297	8,516
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
<b>5 Month Avg.</b>	891	1,449	1,210	3,661	231	292	8,242
<b>% of total</b>	10.8	17.6	14.7	44.4	2.8	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

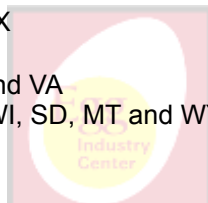
South Central is the sum of AR, UT, CO, MO and TX

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	53.1	153.7	9.3	12.4	351.3
Feb	35.5	69.0	53.1	158.1	9.7	12.3	357.1
Mar	36.5	69.0	52.8	161.6	9.8	12.3	361.2
Apr	36.4	68.0	52.4	163.4	9.6	12.4	361.1
May	35.7	67.4	52.5	164.4	9.3	12.4	360.6
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
<b>5 Month Avg.</b>	35.8	68.4	52.8	160.3	9.5	12.3	358.3
<b>% of total</b>	10.0	19.1	14.7	44.7	2.7	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	32.2	142.0	9.0	11.9	283.6
Feb	32.6	33.0	32.0	146.4	9.4	11.8	289.0
Mar	33.5	32.9	31.7	149.8	9.5	11.8	293.0
Apr	33.4	31.9	31.5	151.5	9.2	11.8	292.9
May	32.7	31.5	31.6	152.4	9.0	11.9	292.4
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
<b>5 Month Avg.</b>	32.8	32.4	31.8	148.4	9.2	11.8	290.2
<b>% of total</b>	11.3	11.2	11.0	51.1	3.2	4.1	
<b>Table/total layers (%)</b>	91.7%	47.4%	60.2%	92.6%	96.8%	96.0%	81.0%

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, %) - 2016**

month	Northeast	Southeast	South Central	Midwest	Northwest	California	Simple avg. of 5 regions
Jan	4.8	21.6	24.4	19.5	21.3	20.0	18.6
Feb	4.4	19.9	23.1	19.9	22.3	22.5	18.7
Mar	5.3	18.1	20.6	18.1	24.3	33.0	19.9
Apr	1.5	19.1	20.1	21.2	24.5	36.0	20.4
May	3.7	18.4	20.4	20.2	24.3	33.5	20.1
Jun	4.2	20.0	21.5	18.4	22.5	32.5	19.9
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
<b>6 Month Avg.</b>	4.0	19.5	21.7	19.6	23.2	29.6	19.6
<b>year 2015 avg.</b>	3.1	21.2	23.2	20.0	23.4	30.9	19.0

Source: USDA NASS Chickens and Eggs

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

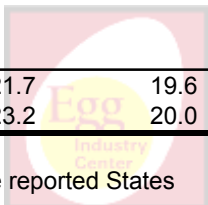


TABLE EGG LAYERS IN LEADING STATES - (LAYERS IN 30,000+ HEN FLOCKS) - 2016

TABLE 15

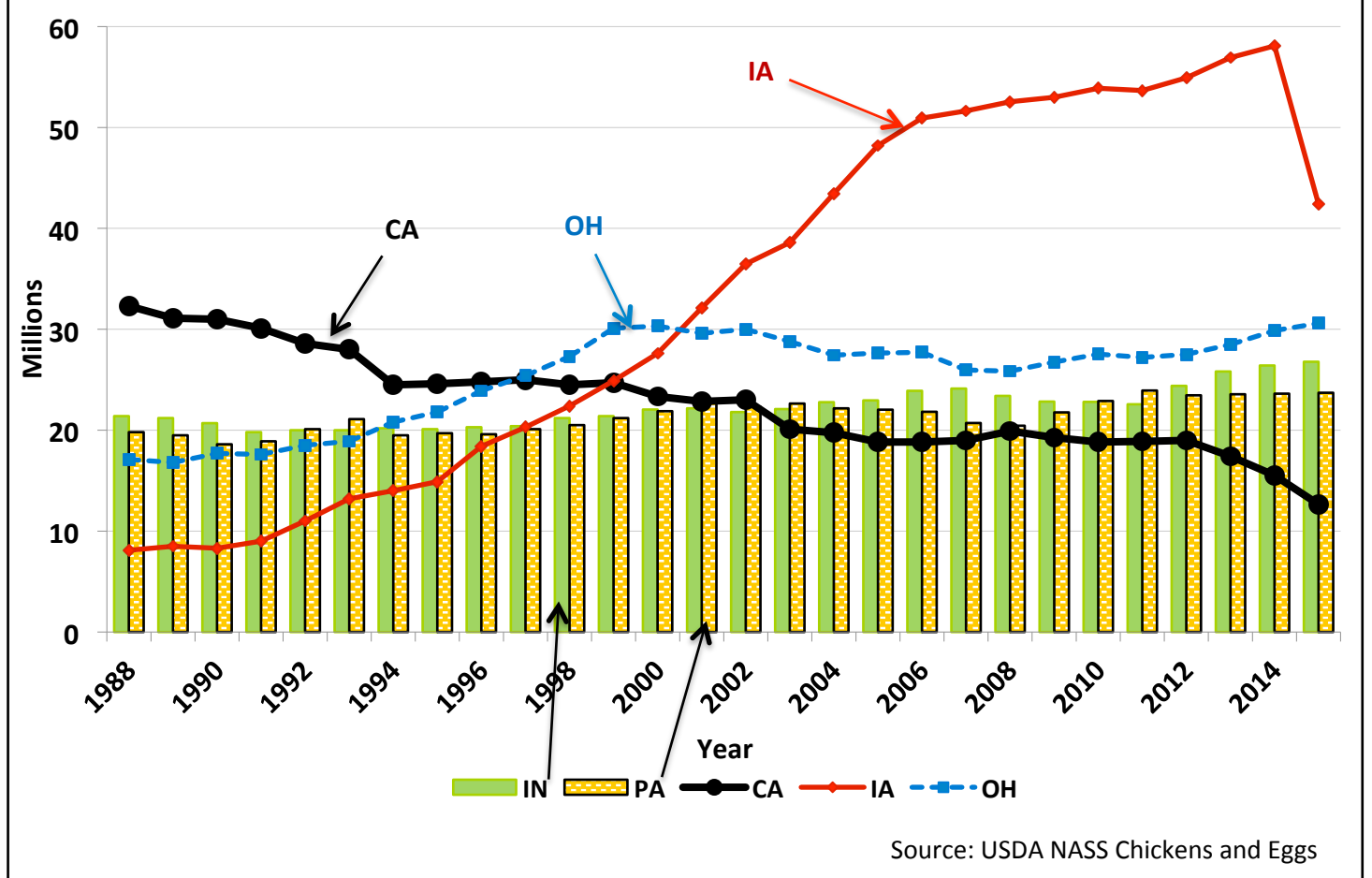
month	IA	OH	IN	PA	CA	TX	U.S.
May-2015	43.01	32.02	26.92	23.54	11.05	14.93	277.27
			(Millions)				
Jan-2016	40.08	32.01	29.07	23.89	11.87	16.55	283.56
Feb-2016	43.85	32.30	28.85	24.70	11.79	16.48	289.04
Mar-2016	46.48	32.02	29.23	25.64	11.81	16.45	292.95
Apr-2016	47.89	31.49	29.27	25.49	11.85	16.40	292.86
May-2016	48.72	31.16	29.28	25.01	11.90	16.33	292.45
Jun-2016							
Jul-2016							
Aug-2016							
Sep-2016							
Oct-2016							
Nov-2016							
Dec-2016							
<b>4 Month Avg.</b>	<b>45.40</b>	<b>31.80</b>	<b>29.14</b>	<b>24.95</b>	<b>11.84</b>	<b>16.44</b>	<b>290.17</b>

Source: USDA NASS Chickens and Eggs

% of all U.S. table egg layers

**96.8**

Figure 10: Leading States' Table Egg Layers in Flocks of 30,000 and Above (1988-2015)



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

**TABLE 16**

month	2010	2011	2012	2013	2014	2015	2016
Jan	2.730	3.087	2.706	2.791	2.436	2.608	2.797
Feb	2.716	3.123	2.659	2.830	2.515	2.535	2.797
Mar	2.745	3.108	2.653	2.786	2.503	2.553	2.857
Apr	2.785	3.039	2.703	2.786	2.468	2.610	2.958
May	2.828	2.998	2.672	2.649	2.555	2.619	2.937
Jun	2.910	2.996	2.657	2.745	2.476	2.664	2.947
Jul	2.999	2.883	2.672	2.579	2.540	2.682	3.081
Aug	3.010	2.848	2.731	2.613	2.536	2.689	3.074
Sep	3.019	2.877	2.732	2.630	2.472	2.605	2.997
Oct	3.023	2.779	2.819	2.588	2.530	2.718	2.840
Nov	2.998	2.755	2.778	2.515	2.497	2.917	2.805
Dec	3.099	2.713	2.791	2.537	2.439	2.892	
<b>11 month avg.</b>	2.888	2.954	2.707	2.683	2.503	2.655	2.917
<b>12 month avg.</b>	2.905	2.934	2.714	2.671	2.497	2.674	

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	2011	2012	2013	2014	2015	2016	2011 to '15 month avg.
Jan	16.7	18.7	19.1	17.5	17.9	21.3	18.0
Feb	16.9	17.4	16.1	17.8	18.4	21.5	17.3
Mar	18.6	17.0	17.1	19.2	20.2	22.7	18.4
Apr	17.5	16.9	16.5	18.9	16.5	20.7	17.3
May	17.0	17.6	18.5	18.6	18.2	21.1	18.0
Jun	17.7	18.0	19.1	19.4	18.0	20.8	18.4
Jul	18.7	19.5	21.1	20.6	20.7	24.4	20.1
Aug	19.7	19.4	19.7	20.2	21.4	25.7	20.1
Sep	19.4	19.5	20.8	20.9	21.4	23.0	20.4
Oct	19.4	20.1	22.6	22.4	21.8	25.8	21.3
Nov	17.6	17.5	19.1	20.0	21.3		19.1
Dec	16.7	16.2	18.0	19.2	19.3		17.9
<b>10 month avg.</b>	18.2	18.4	19.1	19.5	19.4	22.7	18.9
<b>Annual Avg.</b>	18.0	18.2	19.0	19.5	19.6		18.9
<b>Total</b>	215.9	218.0	227.7	234.6	235.1		226.3

Source: USDA NASS Chickens and Eggs

% Change to date

16.68

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 LESS THAN 72 WEEKS OF AGE (Millions)

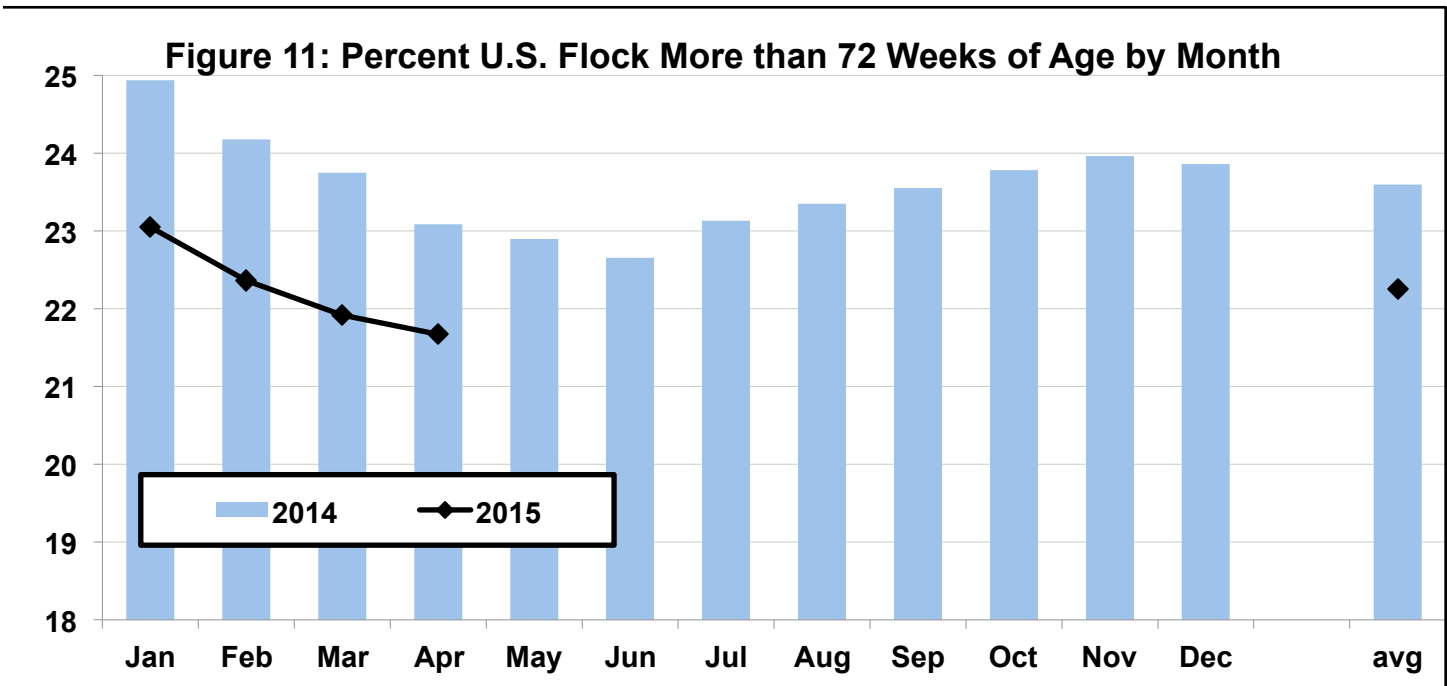
TABLE 18

month	Number				% of National Flock over 72 wks.		
	2012	2013	2014	2015	2013	2014	2015
Jan	219.7	220.1	227.7	235.8	26.3	24.9	23.1
Feb	219.6	219.4	229.5	236.5	26.8	24.2	22.4
Mar	217.9	219.6	231.6	237.4	26.9	23.7	21.9
Apr	217.3	219.1	234.0	235.0	26.5	23.1	21.7
May	217.9	220.0	234.1	*	25.8	22.9	
Jun	218.2	221.1	234.4	*	25.5	22.7	
Jul	219.6	221.9	233.8	*	25.4	23.1	
Aug	219.4	222.1	234.1	*	25.8	23.4	
Sep	219.5	223.4	234.0	*	25.6	23.6	
Oct	220.2	226.0	233.5	*	25.0	23.8	
Nov	220.2	227.5	234.3	*	25.3	24.0	
Dec	219.7	229.3	235.4	*	24.9	23.9	
<b>4 month avg.</b>	218.6	221.8	232.8	237.8			
<b>4 month avg.</b>					26.6	24.0	22.3
<b>12 month avg.</b>	219.1	222.5	233.0		25.8	23.6	

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

Note: The number of layers younger than 72 weeks of age are estimated as the sum of the Egg-Type Chicks Hatched between 5 and 17 months before adjusted by a 9% loss

\* Special note: A special adjustment to this calculation will be needed as a result of the avian influenza outbreak, but it will depend on some assumptions about the ages of the layers affected.



**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 hatches are based upon 6-year percentage trends for each month.
2. USDA slaughter data and estimates based upon 6-year trends for subsequent months.
3. Missing estimates are included for on-farm slaughter, died, exports, etc. This data is expressed as a percentage of each month's beginning count based upon recent history.

**TABLE 19** \_

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

Actual	Actual	Actual	Actual	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected
2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
291.1	295.0	302.1	302.8	301.9	302.0	303.0	309.4	315.9	318.1	324.3	326.7

Project. Year end: **Dec, 2016 - 325.2**

The avian influenza outbreak created a large reduction on the U.S. flock; therefore, we expect our flock projections to be a lot less accurate than normal until the situation stabilizes. To be able to approximate a projection we assumed that:

- the age of the 6 million pullets lost to AI were evenly distributed
- the percent of the flock culled (slaughter, died or missing) by month stays the same
- producers find a place where to house the pullets grown (based on the 5 month before hatch)

**U.S. FLOCK SIZE PROJECTED VS. ACTUAL (1<sup>st</sup> OF THE MONTH) - 2016 (Millions)**

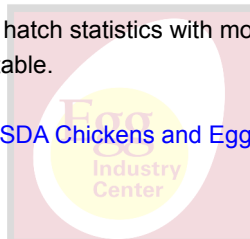
**TABLE 20** \_

Projected on Jan. 31, 2016 (EIC). Not changed during the year.

Month	Beginning count		Replacements		Slaughter	
	Projected	Actual	Projected	Actual	Projected	Actual
Jan	288.1	291.1	21.1	21.3	6.4	5.4
Feb	290.8	295.0	22.1	21.5	5.5	5.2
Mar	295.2	302.1	22.5	22.7	6.4	6.0
Apr	300.1	302.8	20.8	20.7	6.9	5.3
May	300.9	301.9	22.2	21.1	6.8	5.2
Jun	302.9	302.0	22.0	20.8	6.4	
Jul	302.6		18.6	24.4	5.7	
Aug	303.3		20.9	25.7	6.2	
Sep	305.3		20.8	23.0	5.8	
Oct	306.0		21.1	25.8	5.8	
Nov	308.3		19.8		4.9	
Dec	311.5		18.1		6.3	
<b>Current avg</b>	296.3	299.2	21.2	22.7	6.4	5.4

1. Note: Projections are based upon USDA data and are updated monthly.
2. Please note: The above projections are updated monthly. The current projections are shown in Table 19.
3. Projected = Egg Industry Center
4. Actual = Chickens and Eggs Report - USDA NASS
5. USDA replacements are projected ahead from previous hatch statistics with mortality and placement adjustments.
6. Mortality and missing birds are not shown in the above table.

**NOTE:** the projections in table 20 were made before the USDA Chickens and Eggs Report adjustment.



Date calculated: 5/1/2016

2016 Bird Flow by Month

Table 21

A-1 ACTUAL	2015		2016		(all numbers are in millions)								
	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Beginning Count	288.3	291.1	295.0	302.1	302.8	301.9	302.0						
Pullets added at 5 months of age	19.3	21.3	21.5	22.7	20.7	21.1	20.8	24.4	25.7	23.0	25.8		
Slaughter of light fowl	-5.1	-5.4	-5.2	-6.0	-5.3	-5.2							
Died and missing	-11.4	-12.0	-9.3	-15.9	-16.3	-15.8							
U.S.D.A. final count	291.1	295.0	302.1	302.8	301.9	302.0							

Slaughter (6 year rate 2009-2014) Avg = 2.01%/mo. of beginning counts

Placements (6 year rate 2009-2014) Avg = 6.30%/mo.

A-2 PROJECTED	2015		2016										
	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Beginning Count	288.3	291.1	295.0	302.1	302.8	301.9	302.0	303.0	309.4	315.9	318.1	324.3	326.7
Pullets added at 5 months of age	19.3	21.3	21.5	22.7	20.7	21.1	20.8	24.4	25.7	23.0	25.8	19.8	18.1
Slaughter of light fowl	-5.1	-5.4	-5.2	-6.0	-5.3	-5.2	-6.3	-5.7	-6.3	-5.9	-6.0	-5.1	-6.6
Projected died and missing	-11.6	-12.2	-12.4	-11.4	-13.2	-12.6	-13.4	-12.3	-13.0	-14.9	-13.5	-12.3	-13.1
Projected ending count	291.0	294.8	299.0	307.3	305.0	305.1	303.0	309.4	315.9	318.1	324.3	326.7	325.2
U.S.D.A. final count	291.1	295.0	302.1	302.8	301.9	302.0							
Discrepancy in millions	0.1	0.2	3.1	-4.5	-3.1	-3.1							
Discrepancy in %	0.1	0.1	1.0	-1.5	-1.0	-1.0							

For died, missing, and average errors (6 year rate - 2009-2014) Avg. = 4.17%/mo. of beginning counts

A-3 PROJECTED	2016		2017										
	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Beginning Count	326.7	325.2	324.2	323.3	323.7	320.9	319.8	318.7	321.2	323.3	324.1	326.6	330.3
Pullets added at 5 months of age	18.1	19.9	18.8	19.7	18.7	19.6	19.9	21.4	22.0	22.1	22.4	21.2	19.6
Slaughter of light fowl	-6.6	-7.2	-6.1	-7.0	-7.4	-7.2	-6.7	-6.0	-6.5	-6.0	-6.1	-5.1	-6.6
Projected died and missing	-13.1	-13.7	-13.6	-12.2	-14.1	-13.4	-14.2	-12.9	-13.5	-15.3	-13.7	-12.4	-13.2
Projected ending count	325.2	324.2	323.3	323.7	320.9	319.8	318.7	321.2	323.3	324.1	326.6	330.3	330.0

**Notes:** Pullets to be added in 2016 were calculated at 6.30% of the beginning count (variable by the month).

Slaughter in 2016 was calculated at 2.01% of the beginning count (variable by the month.)

Died and missing birds were calculated at 4.17% of the beginning count for 2016.

Shaded cells are actual numbers.





2016 United States Flock Size Projections

Table 22

For May 2016

USDA preliminary  
Actual count

Estimated number of U.S. table egg layers (million) on the 1<sup>st</sup> of each month

Estimated For Month	Estimated: December 2015	Month Number of Layers Projected for 2016/2017											
		2015 Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Jan-16	284.8	288.1	291.1										
Feb-16	287.7	290.8	293.5	295.0									
Mar-16	292.3	295.2	297.8	299.4	302.1								
Apr-16	297.4	300.1	302.6	304.1	302.8	302.8							
May-16	298.4	300.9	303.3	304.7	303.4	302.0	301.9						
Jun-16	301.3	302.9	305.1	306.4	305.0	303.7	302.0						
Jul-16	301.2	302.6	306.7	307.2	305.9	304.6	303.0						
Aug-16	301.9	303.3	307.4	313.4	312.1	310.9	309.4						
Sep-16	304.0	305.3	309.5	315.1	316.3	317.4	315.9						
Oct-16	304.8	306.0	310.2	315.5	316.6	318.8	318.1						
Nov-16	307.2	308.3	312.6	317.5	318.6	320.6	324.3						
Dec-16	310.5	311.5	315.9	320.5	321.5	323.5	326.7						
Jan-17		310.6	315.1	319.5	320.5	322.3	325.2						
Feb-17			314.2	318.6	319.5	321.3	324.2						
Mar-17				317.7	318.7	320.5	323.3						
Apr-17				318.1	319.1	320.9	323.7						
May-17				315.4	316.3	318.1	320.9						
Jun-17				314.3	315.2	317.0	319.8						
Jul-17				313.3	314.2	316.0	318.7						
Aug-17				315.7	316.6	318.4	321.2						
Sep-17				317.7	318.6	320.5	323.3						
Oct-17				318.5	319.4	321.3	324.1						
Nov-17				321.0	322.0	323.8	326.6						
Dec-17				324.7	325.6	327.5	330.3						

THIS IS A NEW PAGE TO VISUALIZE CHANGES IN FLOCK PROJECTIONS AS THE YEAR EVOLVES

\* Note: USDA Chickens and Eggs Report adjusted the number of table egg layers up between the January and February reports



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

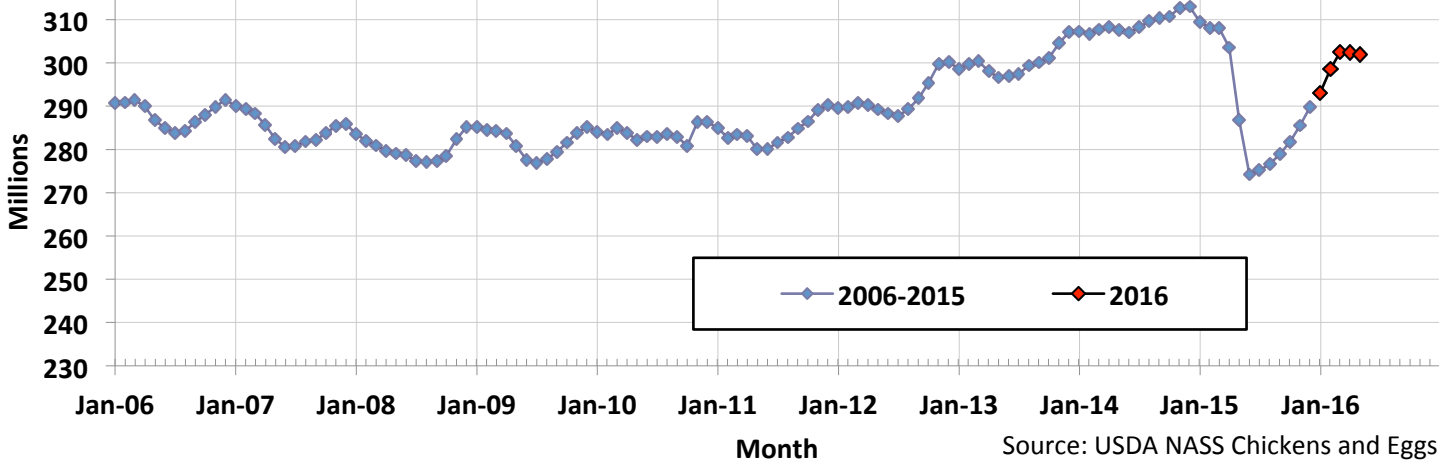


Figure 13: U.S. Table Eggs per Hundred Hens per Day by Month (2006-2016)

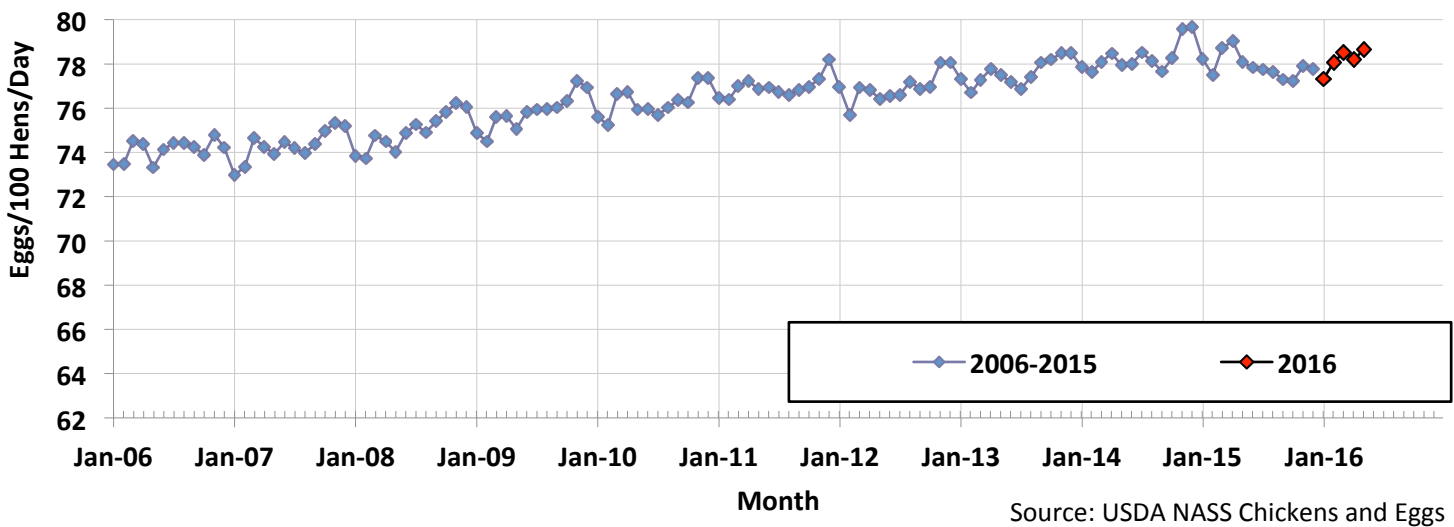


Figure 14: Monthly Percent of U.S. Flock Molted (2006-2016)

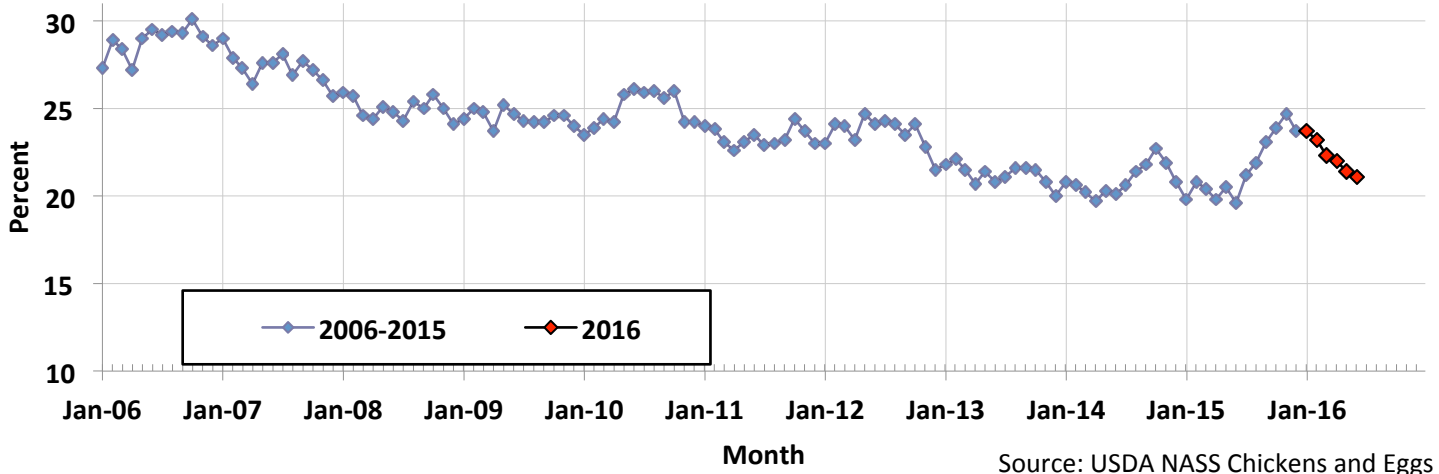
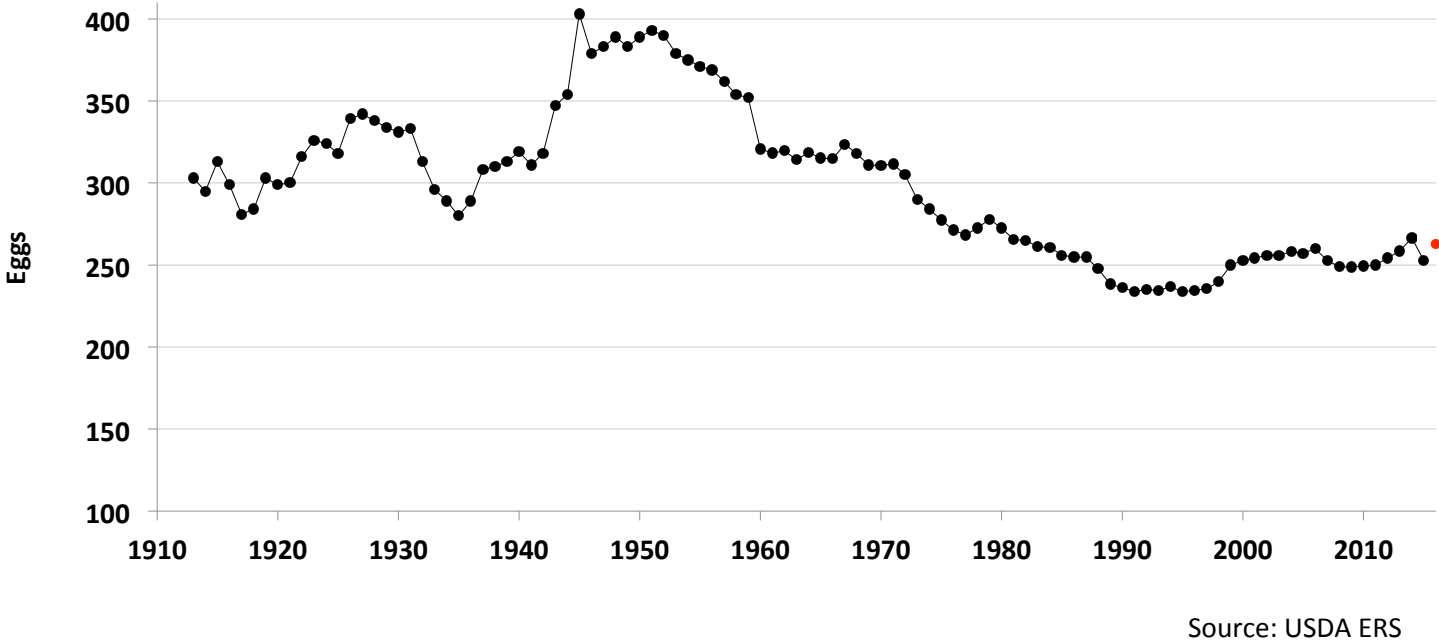


Figure 15: U.S. Per Capita Egg Consumption by Year (1913-2016)



**SUMMARY TO DATE**

**Table 23**

		2015	2016	% Change
HATCH of EGG-TYPE STRAIGHT RUN (THOUSANDS) (U.S.) (Total)	Jan to May	236,337	263,346	11.4
TABLE-EGG LAYERS (MILLIONS) (U.S.) (Avg.)	Jan to May	303.2	299.7	-1.2
TABLE EGGS (MILLIONS/MONTH) (U.S.) (Avg.)	Jan to May	7,169	7,120	-0.7
RATE OF LAY (%) (Avg.)	Jan to May	78.3	78.2	-0.2
U.S. TABLE EGG AVG. CASES/WEEK (THOUSANDS)	Jan to May	1,662	1,650	-0.7
AVG MONTHLY CASES OF EGGS BROKEN (MILLION) (U.S.)	Jan to May	6.001	6.052	0.9
		<b>2013</b>	<b>2014</b>	<b>Difference</b>
PERCENT OF U.S. FLOCK IN or POST MOLT (Avg.)	Jan to Jun	20.3	22.5	2.3
AVVERAGE PULLETS ADDED/MONTH (MILLIONS) (U.S.)	Jan to Oct	19.4	22.7	3.2

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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