

U.S. Flock Trends and Projections

January 10, 2017



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 November hatch (straight-run chicks) was 7.3% lower than in 2015. This projects forward to a 19.2 million pullet placement for April of 2017 which is 1.5 million smaller than April of 2016 placement (20.7).
- * Current (November average, 2016) U.S. table egg layer number (309.6 million) is 8.5 percent larger than last year's number at this time (285.5 million), and up 3.7 million compared to last month (305.9 million).
- * In November, Iowa led the nation with 53.3 million laying hens compared to 31.1 million in Ohio, 29.3 million in Indiana, and 25.7 million in Pennsylvania. California (with 11.1 million layers) lost it's 5th position to Texas with 16.6 million layers.
- * The November U.S. rate of lay was estimated to be 80.1% which is 2.2% higher than November 2015 level. The total number of table eggs produced in November 2016 was 11.5% higher than the November 2015 production.
- * The November 2016 number of eggs exported was 59% higher than last year (November 2015) and 1% lower than last month (October 2016). The November exports represented 3.4% of the number of eggs produced.
- * Shell eggs broken for products in November 2016 totaled 6.505 million cases, 21.6% more than in November 2015 (5.350 million cases).

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

	2015	2016	% Change
Hatch - Egg-Type Straight Run (thousands) (U.S.)	45,848	42,496	-7.3
Table Egg Layers (millions) (U.S.)	285.5	309.6	8.5
Rate of lay (percent)	77.9	80.1	2.2
Molting (December 1, 2016) (percent in + out of a molt)	23.7	17.9	-24.5

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	311.9*

* 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.

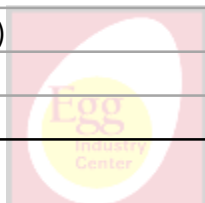
The same distinction is made between table-eggs and total eggs.



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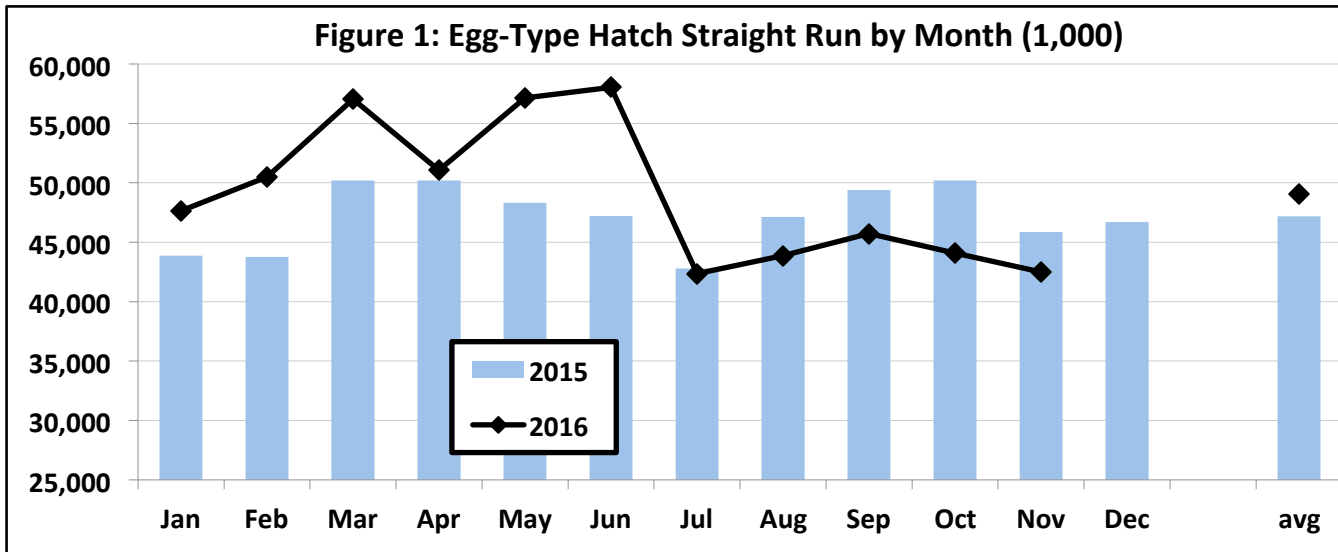
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EGG TYPE: EGGS IN INCUBATORS (on the 1st of the month) and STRAIGHT RUN HATCH (U.S.) **TABLE 1**

EGG-TYPE Eggs in Incubators (thousands)				EGG-TYPE Straight Run Hatch (thousands)			
month	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	57,155	18.3
Jun	47,971	54,579	13.8	Jun	47,212	58,040	22.9
Jul	43,647	44,940	3.0	Jul	42,790	42,349	-1.0
Aug	44,480	38,355	-13.8	Aug	47,131	43,870	-6.9
Sep	46,521	43,558	-6.4	Sep	49,391	45,724	-7.4
Oct	49,648	40,676	-18.1	Oct	50,194	44,071	-12.2
Nov	47,072	41,682	-11.5	Nov	45,848	42,496	-7.3
Dec	48,194	46,137	-4.3	Dec	46,695		
12 Month Avg.	46,192	46,716	1.1	11 Month Avg.	47,173	49,084	4.1
12 Month Total	554,305	560,591		11 Month Total	518,903	539,920	
12 Month Total	554,305			12 Month Total	565,598		

Source: USDA NASS Chickens and Eggs

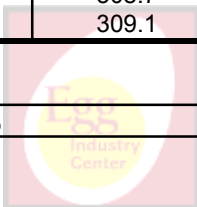


AVERAGE U.S. LAYERS AND TABLE EGG LAYERS 2014/2015 (MILLIONS) **TABLE 2**

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	366.5	6.7	312.7	285.5	309.6	8.5
Dec	347.8			313.0	289.7		
11 Month Avg.	347.8	359.7	3.4	308.7	289.8	301.7	4.1
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%

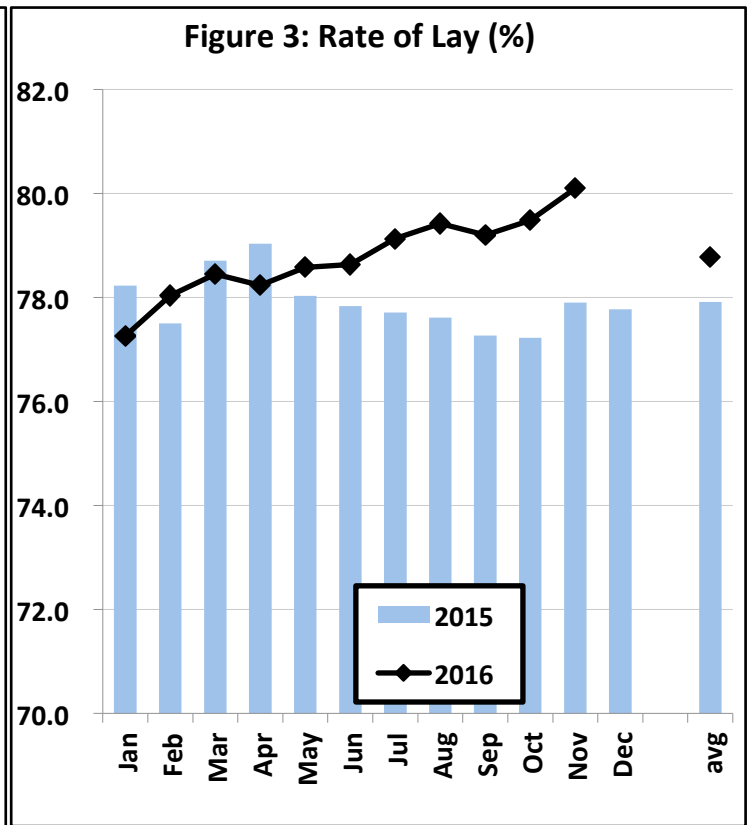
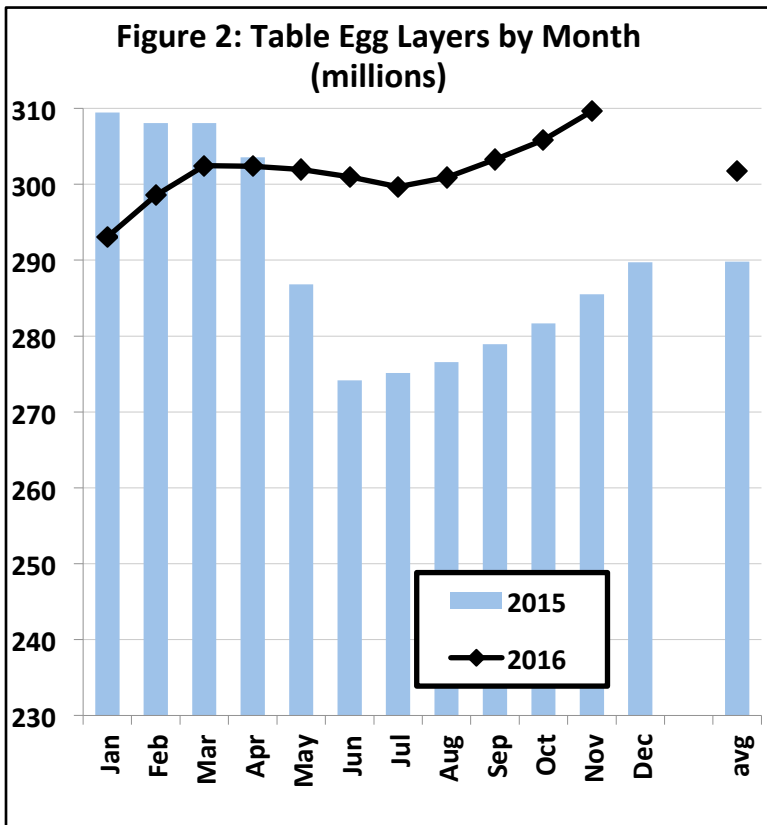


U.S. ALL EGGS, TABLE EGGS AND RATE OF LAY (ALL STATES)

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	8,532	9.9	6,671	7,440	11.5	77.9	80.1
Dec	8,117			6,985			77.8	
11 Month Avg.	7,962	8,357	5.0	6,855	7,238	5.6	77.9	78.8
Annual Avg.	7,975			6,866			77.9	
Total	95,696	91,931		82,387	79,619			

Source: USDA NASS Chickens and Eggs



SHELL EGGS BROKEN UNDER FEDERAL INSPECTION (MILLION CASES)

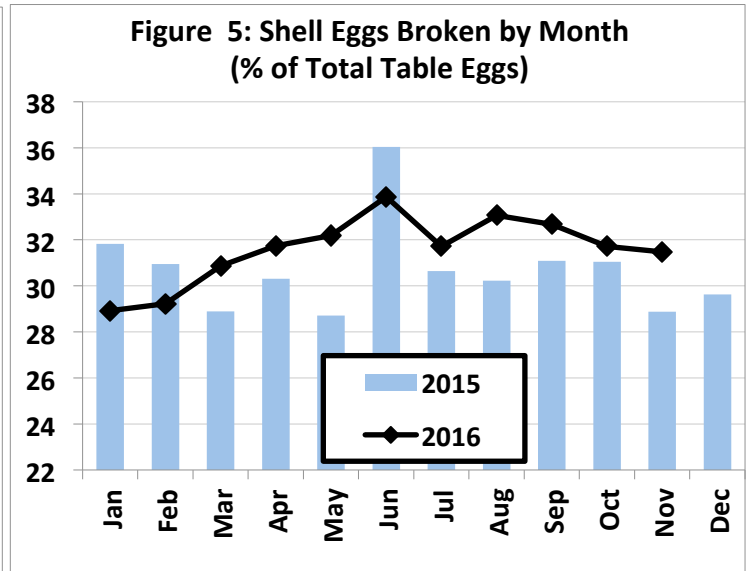
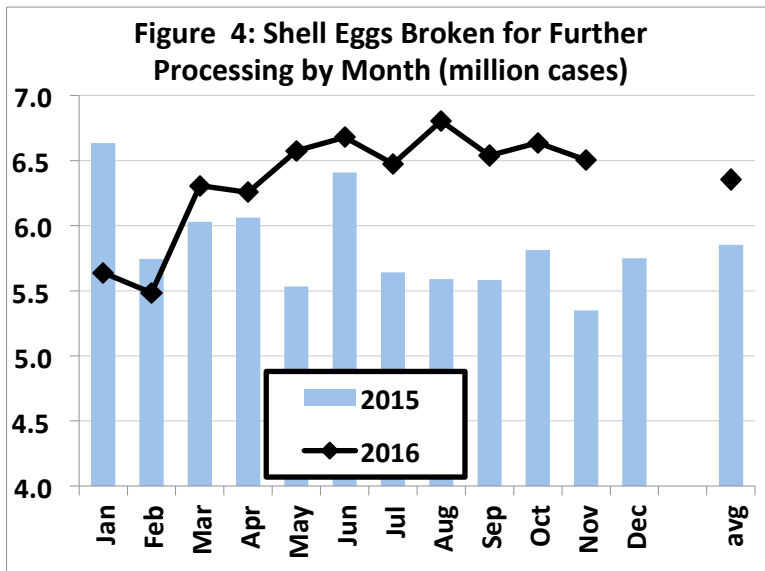
TABLE 4

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	6.505	21.6
Dec	5.891	5.615	5.964	5.745	6.281	5.749		
11 Month Avg.	5.742	5.801	5.865	5.945	6.284	5.854	6.355	8.6
11 Month Total	63.162	63.816	64.513	65.391	69.124	64.389	69.900	
12 Month Total	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	245.460	228.854	221.164
31.3	30.9	30.1	30.7	30.6	31.6



PER CAPITA EGG CONSUMPTION BY QUARTER

TABLE 5

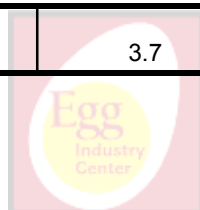
QUARTER	2010	2011	2012	2013	2014	2015	2016*	2017*
1	61.8	61.3	63.2	64.2	65.5	65.2	66.1	66.9
2	61.9	61.5	62.2	63.3	66.1	62.2	66.0	66.4
3	62.5	62.8	63.3	64.5	67.1	61.1	66.8	66.5
4	63.1	64.3	65.6	66.0	68.4	64.5	68.4	
Total	249.3	249.9	254.3	258.0	267.1	252.9	267.4	267.5

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 2016 and 2017 (12/2016)

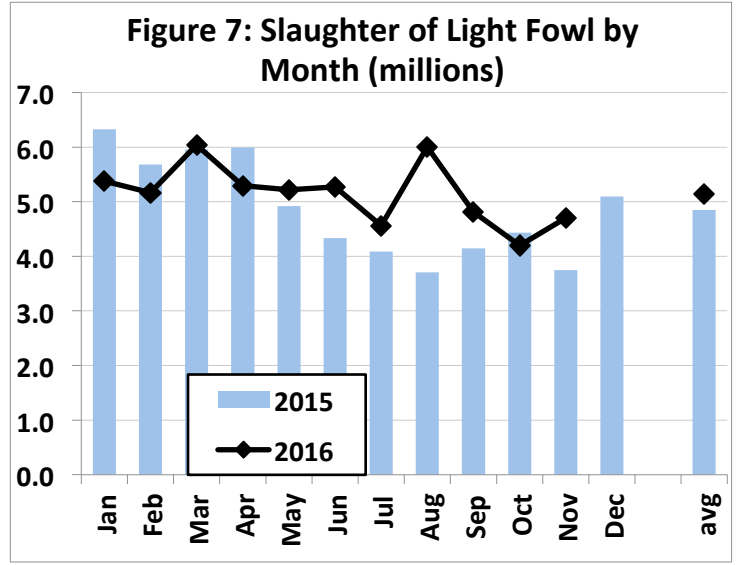
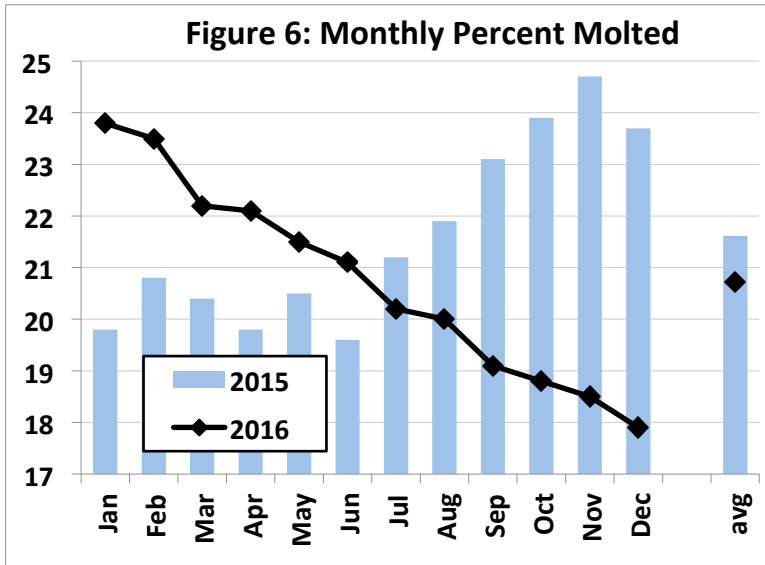


INDUCED MOLT PERCENT - U.S. TOTALS (1ST OF MONTH)

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	21.3	19.8	23.8	4.0
Feb	3.3	2.9	-0.4	17.5	20.6	20.8	23.5	2.7
Mar	1.9	1.5	-0.4	18.5	20.7	20.4	22.2	1.8
Apr	2.1	2.9	0.8	17.7	19.2	19.8	22.1	2.3
May	3.1	2.8	-0.3	17.4	18.7	20.5	21.5	1.0
Jun	2.4	2.9	0.5	17.2	18.2	19.6	21.1	1.5
Jul	3.0	2.5	-0.5	18.2	17.7	21.2	20.2	-1.0
Aug	2.7	2.6	-0.1	19.2	17.4	21.9	20.0	-1.9
Sep	3.4	2.6	-0.8	19.7	16.5	23.1	19.1	-4.0
Oct	3.4	2.1	-1.3	20.5	16.7	23.9	18.8	-5.1
Nov	3.4	2.2	-1.2	21.3	16.3	24.7	18.5	-6.2
Dec	1.8	1.5	-0.3	21.9	16.4	23.7	17.9	-5.8
12 Month Avg.	2.7	2.4	-0.3	18.9	18.3	21.6	20.7	-0.9
12 Month Avg.	2.7			18.9		21.6		

Source: USDA NASS Chickens and Eggs

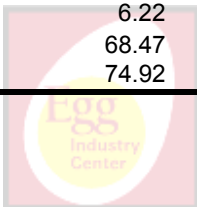


SLAUGHTER OF LIGHT FOWL (MILLIONS)

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	6.02	6.02
11 Month Avg.	5.64	5.71	6.21	6.22	5.94	4.85	5.15	5.76
11 Month Total	62.02	62.77	68.36	68.47	65.34	53.33	56.64	63.38
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	1.42
Dec									262.2	
11 Mo. Total	1,243.2	27.3	876.2	7.5	979.4	0.2	179.1	3,439.4	4,356.7	1.56
%	36.1	0.8	25.5	0.2	28.5	0.0	5.2			

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	1.94
Dec									324.1	
11 Mo. Total	1,107.7	110.4	77.3	425.7	986.9	129.3	74.2	2,970.5	3,513.7	1.34
%	37.3	3.7	2.6	14.3	33.2	4.4	2.5			

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

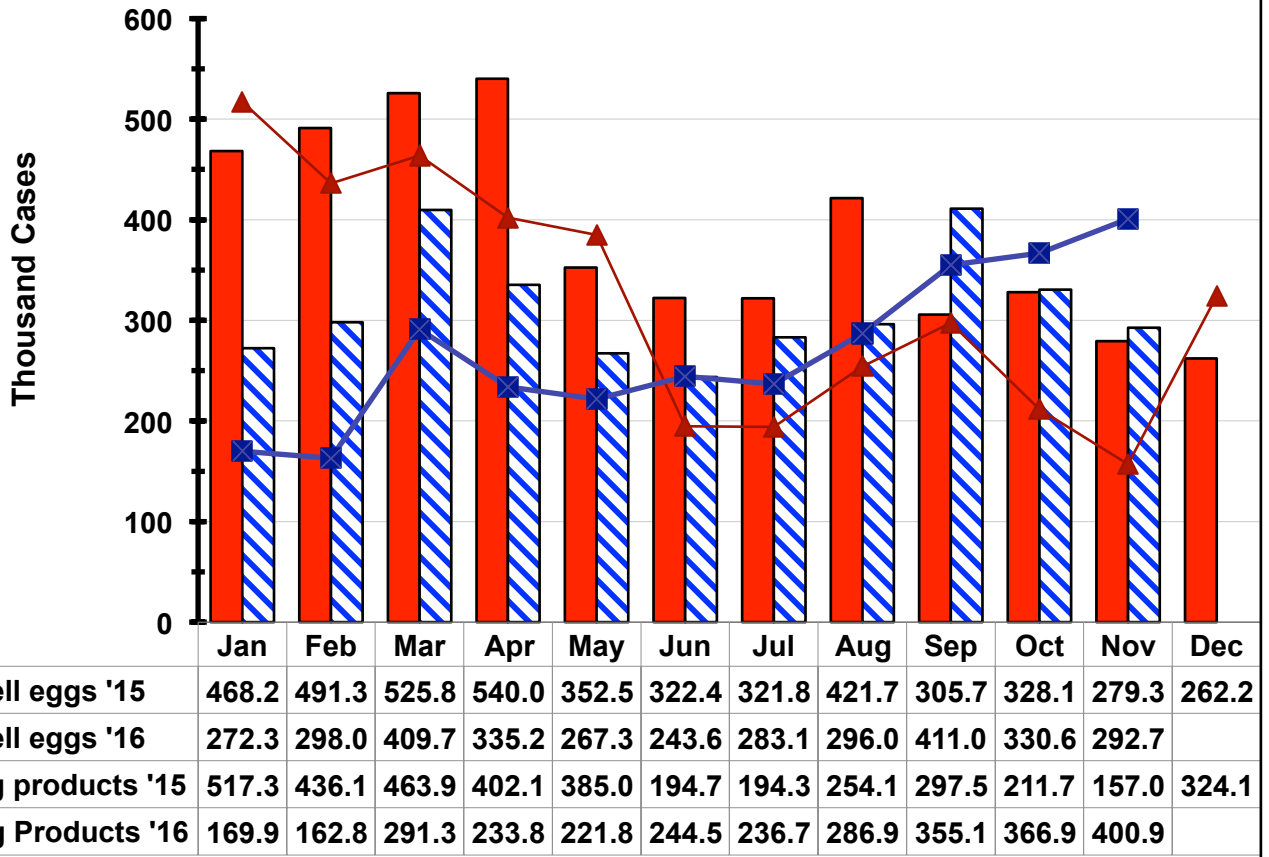
Source: USDA Economic Research Service from U.S. Dept. of Commerce, U.S. Census Bureau, Foreign Trade Stats.

TOTAL EGGS EXPORTED - 2016

TABLE 10

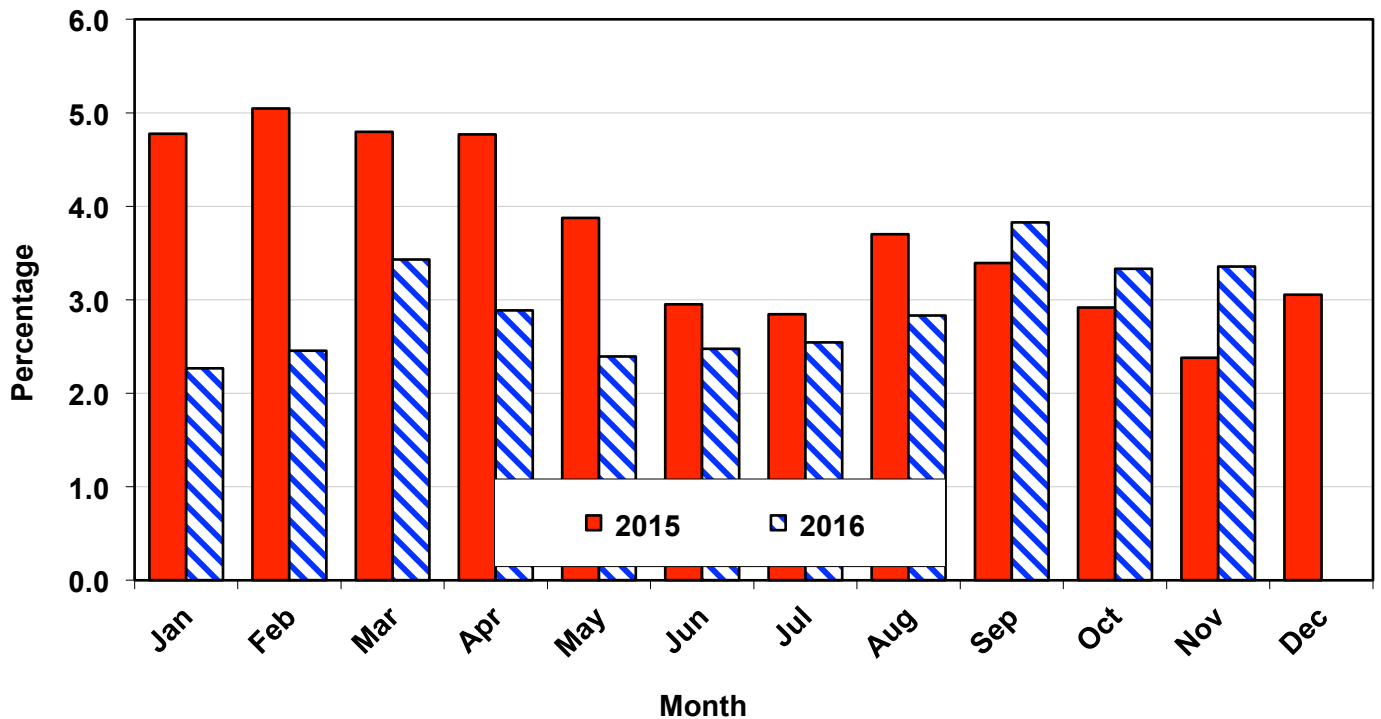
	Table Eggs Produced		Shell Eggs Exported		Egg Products Exported		Total Exported	
	(000) Cases		Cases	% of U.S.	Cases	% of U.S.	Cases	% of U.S.
Jan	19,497		272.3	1.40	169.9	0.87	442.1	2.27
Feb	18,766		298.0	1.59	162.8	0.87	460.8	2.46
Mar	20,436		409.7	2.00	291.3	1.43	700.9	3.43
Apr	19,710		335.2	1.70	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	20,666		292.7	1.42	400.9	1.94	693.6	3.36
Dec								
Total/Av	221,164		3,439.4	1.56	2,970.5	1.34	6,409.9	2.90

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

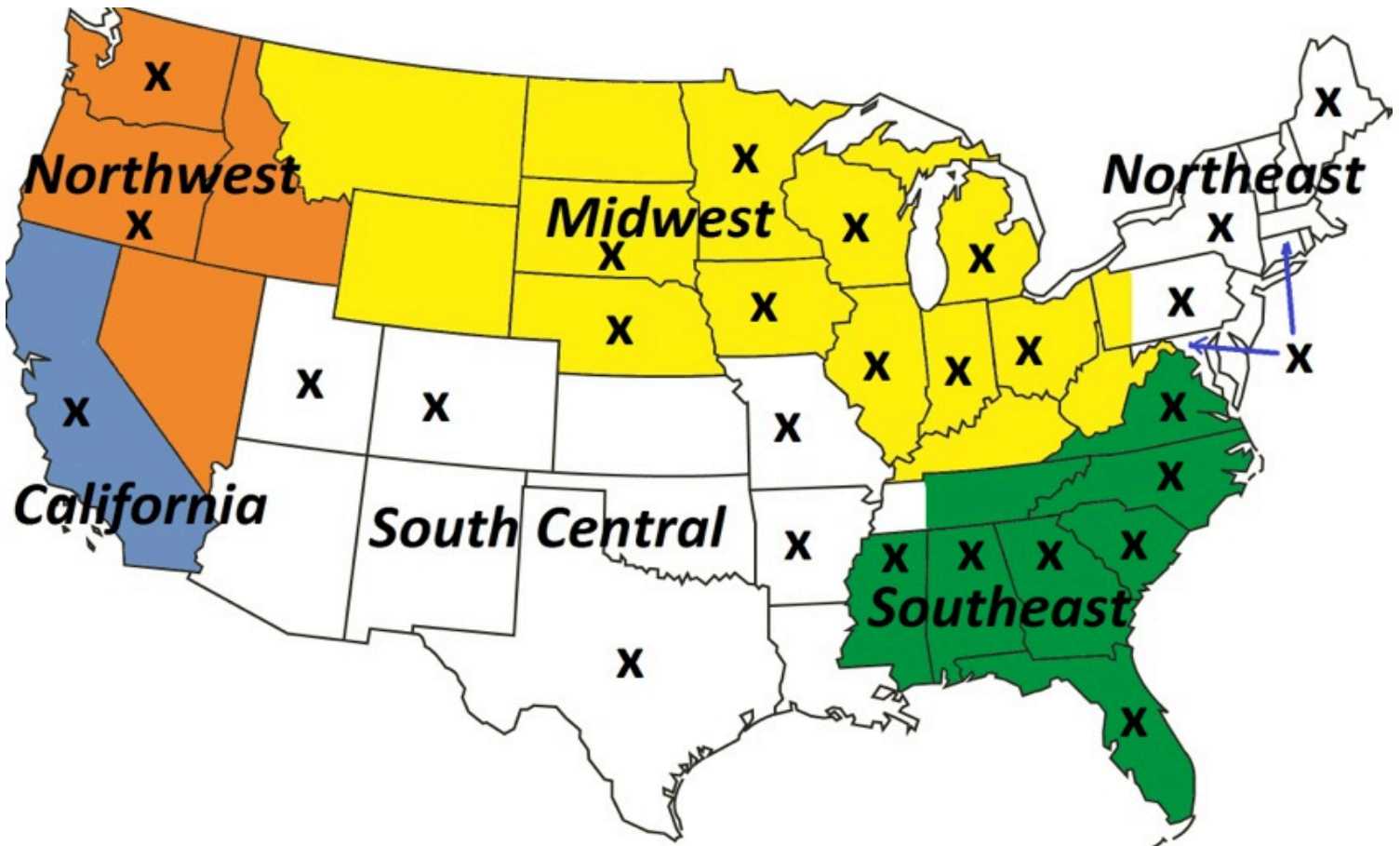
month	Northeast	Southeast	South Central	Midwest	Northwest	California	U.S. Total
Jan	864	1,506	1,311	3,584	227	297	8,152
Feb	841	1,408	1,228	3,457	224	276	7,818
Mar	934	1,486	1,299	3,736	247	297	8,496
Apr	903	1,406	1,256	3,704	226	291	8,207
May	911	1,441	1,304	3,825	226	300	8,509
Jun	883	1,390	1,242	3,705	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	883	1,417	1,302	3,947	232	283	8,532
Dec							
11 Month Avg.	893	1,434	1,281	3,768	228	290	8,357
% of total	10.7	17.2	15.3	45.1	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

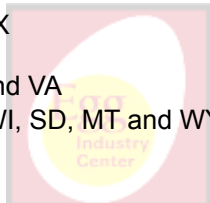
South Central is the sum of AR, UT, CO, MO and TX

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	36.4	66.6	58.1	170.7	9.4	11.7	366.5
Dec							
11 Month Avg.	35.7	67.3	57.1	163.6	9.3	12.1	359.7
% of total	9.9	18.7	15.9	45.5	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	37.6	158.9	9.1	11.1	300.1
Dec							
11 Month Avg.	32.7	31.8	36.3	151.8	9.0	11.6	292.2
% of total	11.2	10.9	12.4	51.9	3.1	4.0	

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

TABLE 14

month	Northeast	Southeast	South Central	Midwest	Northwest	California	U.S. Avg
Jan	4.2	24.6	29.0	25.2	26.3	20.0	23.8
Feb	4.3	25.5	29.8	23.3	17.0	19.5	23.5
Mar	4.3	24.4	27.9	24.3	15.3	19.5	22.2
Apr	4.2	25.5	28.9	23.0	19.5	18.0	22.1
May	3.2	27.0	29.2	22.6	19.8	16.0	21.5
Jun	2.7	27.2	26.5	22.1	18.5	18.5	21.1
Jul	2.8	27.1	27.1	19.2	17.3	19.0	20.2
Aug	2.2	26.7	27.7	18.5	19.3	21.5	20.0
Sep	2.0	27.4	26.4	17.5	17.8	19.5	19.0
Oct	1.8	27.6	26.6	16.2	16.5	18.0	18.9
Nov	3.2	27.2	25.9	13.1	13.3	18.5	18.4
Dec	2.8	26.6	24.3	13.7	12.0	17.0	17.9
12 Month Avg.	3.1	26.4	27.4	19.9	17.7	18.8	20.7
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

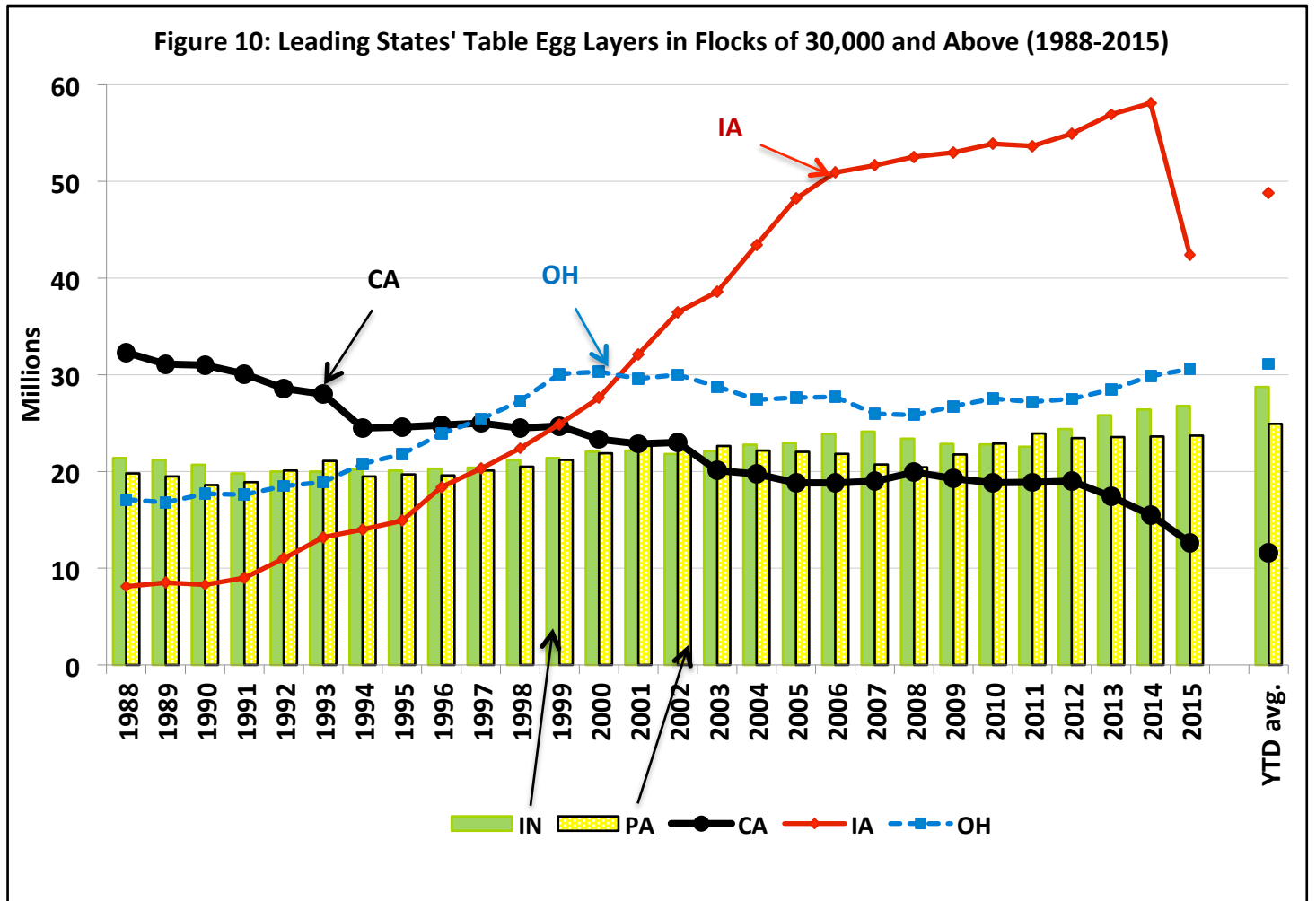
TABLE EGG LAYERS IN LEADING STATES - (LAYERS IN 30,000+ HEN FLOCKS) - 2016

TABLE 15

month	IA	OH	IN	PA	CA	TX	U.S.
Nov-2015	34.71	32.15	29.27	23.74	11.71	16.05	275.97
			(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	29.31	25.74	11.12	16.63	300.11
Dec-2016							
11 Month Avg.	48.78	31.14	28.74	24.93	11.58	16.36	292.18

Source: USDA NASS Chickens and Eggs

% of all U.S. table egg layers in flocks with 30,000 or more hens = 96.8%



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	
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	
5 month avg.	3.071	2.678	2.768	2.495	2.585	2.869	2.617
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	19.2	17.9
May	17.6	18.5	18.6	18.2	21.1		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
4 month avg.	17.5	17.2	18.3	18.2	21.5	19.5	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

-9.33

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)

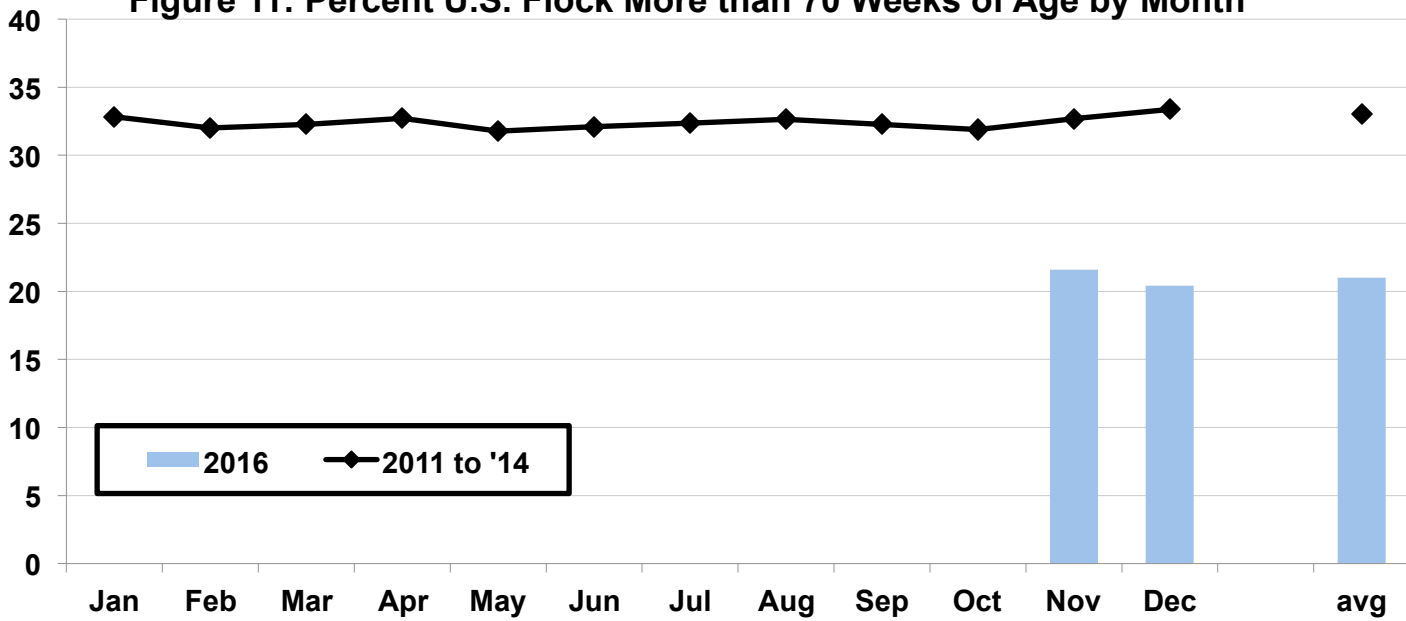
TABLE 18

	% of National Flock over 70 weeks of age (on the 1st of the month)							2011 to '14
	2011	2012	2013	2014	2015	2016		
Jan	31.3	32.7	34.1	33.1	31.9		32.8	
Feb	29.4	32.7	34.1	31.8	30.6		32.0	
Mar	29.3	33.0	34.9	31.8	31.5		32.3	
Apr	30.0	33.4	34.9	32.5			32.7	
May	29.0	32.4	33.5	32.2			31.8	
Jun	29.5	32.8	33.8	32.2			32.1	
Jul	30.9	32.5	33.7	32.4			32.4	
Aug	30.9	32.5	33.7	33.4			32.6	
Sep	31.5	32.3	32.7	32.5			32.3	
Oct	31.5	32.5	31.4	32.1			31.9	
Nov	32.2	34.4	32.6	31.5		21.6	32.7	
Dec	32.6	34.9	33.2	32.8		20.4	33.4	
Nov-Dec avg.	32.4	34.7	32.9	32.2		21.0	33.0	
12 month avg.	30.7	33.0	33.6	32.4			32.4	

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 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	Actual	Actual	Actual	Actual	Actual	Actual
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	301.9	300.0	299.3	302.5	304.0	307.6	311.6
Project. Year end:						Dec, 2016 - 311.9					

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 (1st OF THE MONTH) - 2016 (Millions)

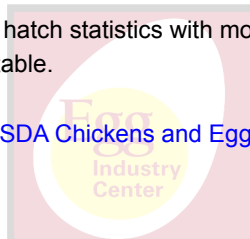
TABLE 20

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	301.9	22.0	20.8	6.4	5.3
Jul	302.6	300.0	18.6	24.4	5.7	4.6
Aug	303.3	299.3	20.9	25.7	6.2	6.0
Sep	305.3	302.5	20.8	23.0	5.8	4.8
Oct	306.0	304.0	21.1	25.8	5.8	4.2
Nov	308.3	307.6	19.8	26.2	4.9	4.7
Dec	311.5	311.6	18.1	19.1	6.3	
Current avg	301.2	301.7	20.8	22.7	6.1	5.1

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: 1/10/2017

2016 Bird Flow by Month

Table 21

A-1 ACTUAL	(all numbers are in millions)												
	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	301.9	300.0	299.3	302.5	304.0	307.6	311.6
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	26.2	19.1
Slaughter of light fowl	-5.1	-5.4	-5.2	-6.0	-5.3	-5.2	-5.3	-4.6	-6.0	-4.8	-4.2	-4.7	
Died and missing	-11.4	-12.0	-9.3	-15.9	-16.3	-15.8	-17.5	-20.4	-16.6	-16.7	-18.0	-17.6	
U.S.D.A. final count	291.1	295.0	302.1	302.8	301.9	301.9	300.0	299.3	302.5	304.0	307.6	311.6	

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	(all numbers are in millions)												
	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	301.9	300.0	299.3	302.5	304.0	307.6	311.6
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	26.2	19.1
Slaughter of light fowl	-5.1	-5.4	-5.2	-6.0	-5.3	-5.2	-5.3	-4.6	-6.0	-4.8	-4.2	-4.7	-6.3
Projected died and missing	-11.6	-12.3	-11.3	-11.4	-13.2	-12.6	-12.8	-14.0	-12.6	-14.3	-12.9	-11.7	-12.5
Projected ending count	291.0	294.8	300.1	307.3	305.0	305.1	304.7	305.8	306.5	306.4	312.8	317.5	311.9
U.S.D.A. final count	291.1	295.0	302.1	302.8	301.9	301.9	300.0	299.3	302.5	304.0	307.6	311.6	
Discrepancy in millions	0.1	0.2	2.0	-4.5	-3.1	-3.2	-4.7	-6.5	-4.0	-2.3	-5.1	-5.9	
Discrepancy in %	0.1	0.1	0.7	-1.5	-1.0	-1.1	-1.6	-2.2	-1.3	-0.8	-1.7	-1.9	

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

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 1st 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	301.9						
Jul-16	301.2	302.6	306.7	307.2	305.9	304.6	303.0	300.0	300.0					
Aug-16	301.9	303.3	307.4	313.4	312.1	310.9	309.4	306.5	299.1	299.3				
Sep-16	304.0	305.3	309.5	315.1	316.3	317.4	315.9	313.2	306.2	302.3	302.5			
Oct-16	304.8	306.0	310.2	315.5	316.6	318.8	318.1	315.5	309.0	305.4	304.2	304.0		
Nov-16	307.2	308.3	312.6	317.5	318.6	320.6	324.3	322.0	315.9	312.5	311.4	305.3	307.6	
Dec-16	310.5	311.5	315.9	320.5	321.5	323.5	326.7	330.9	325.1	321.9	320.9	315.1	311.6	

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)

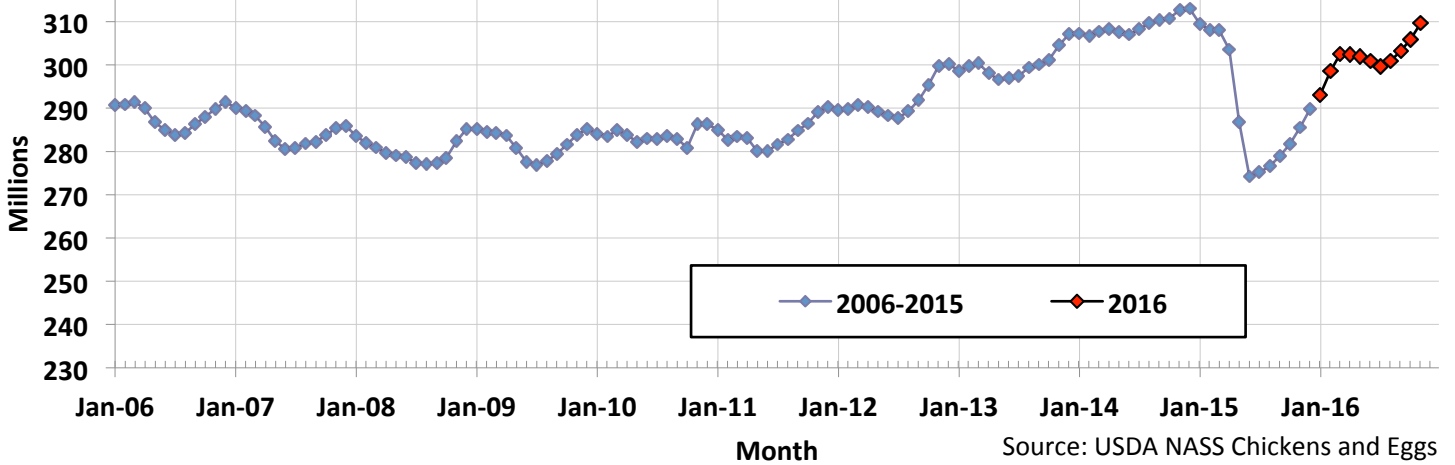


Figure 13: U.S. Table Eggs per Hundred Hens per Day by Month (2006-2016)

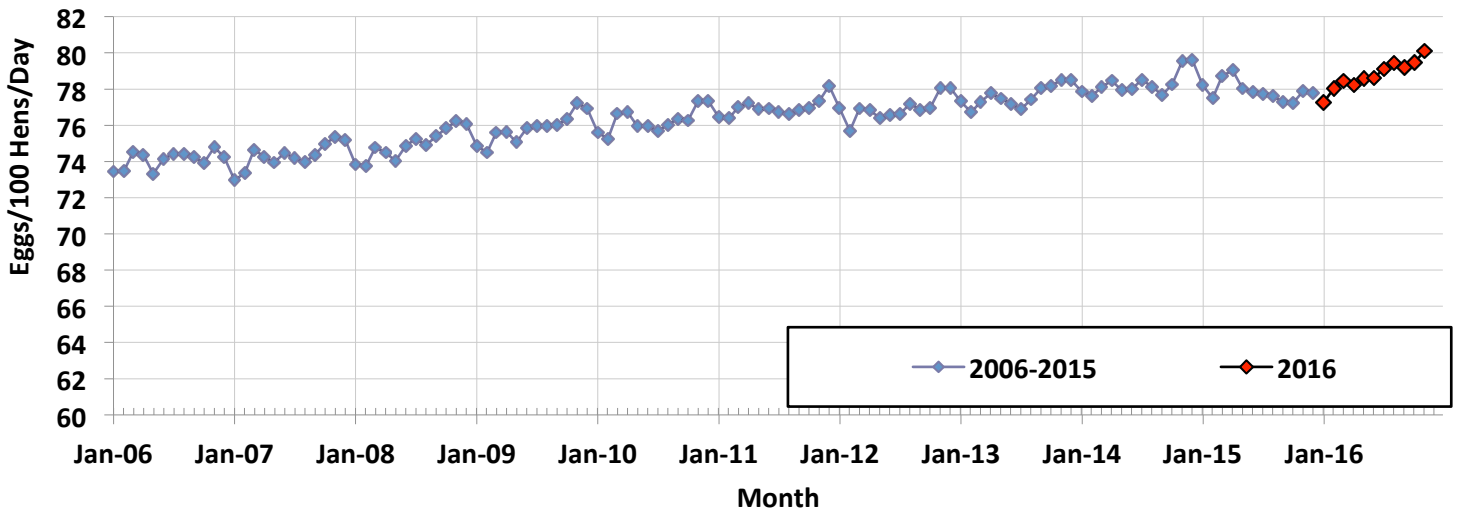


Figure 14: Monthly Percent of U.S. Flock Molted (2006-2016)

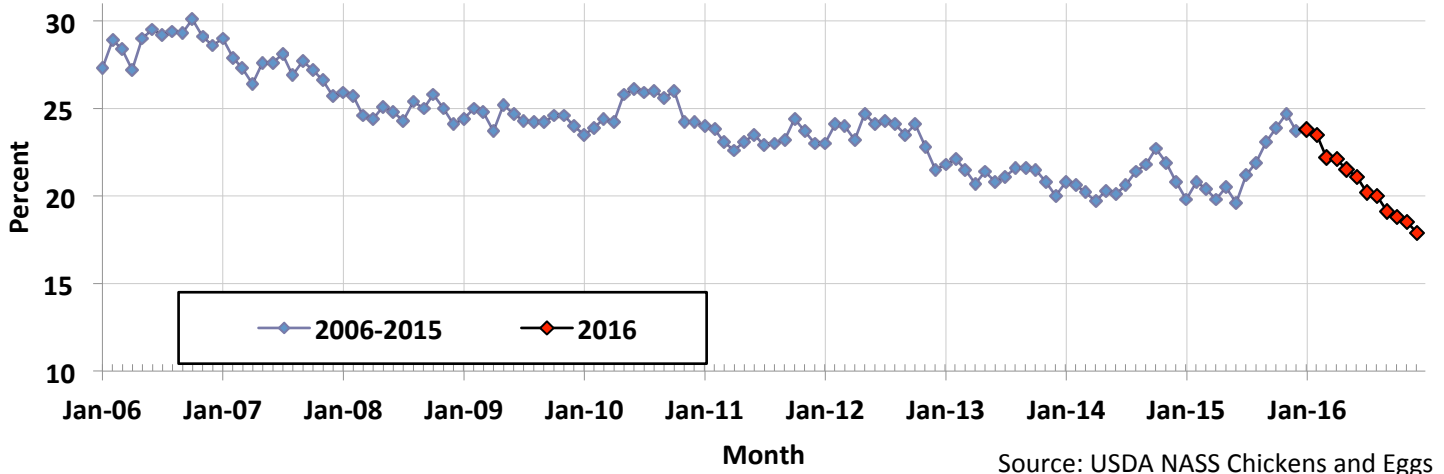
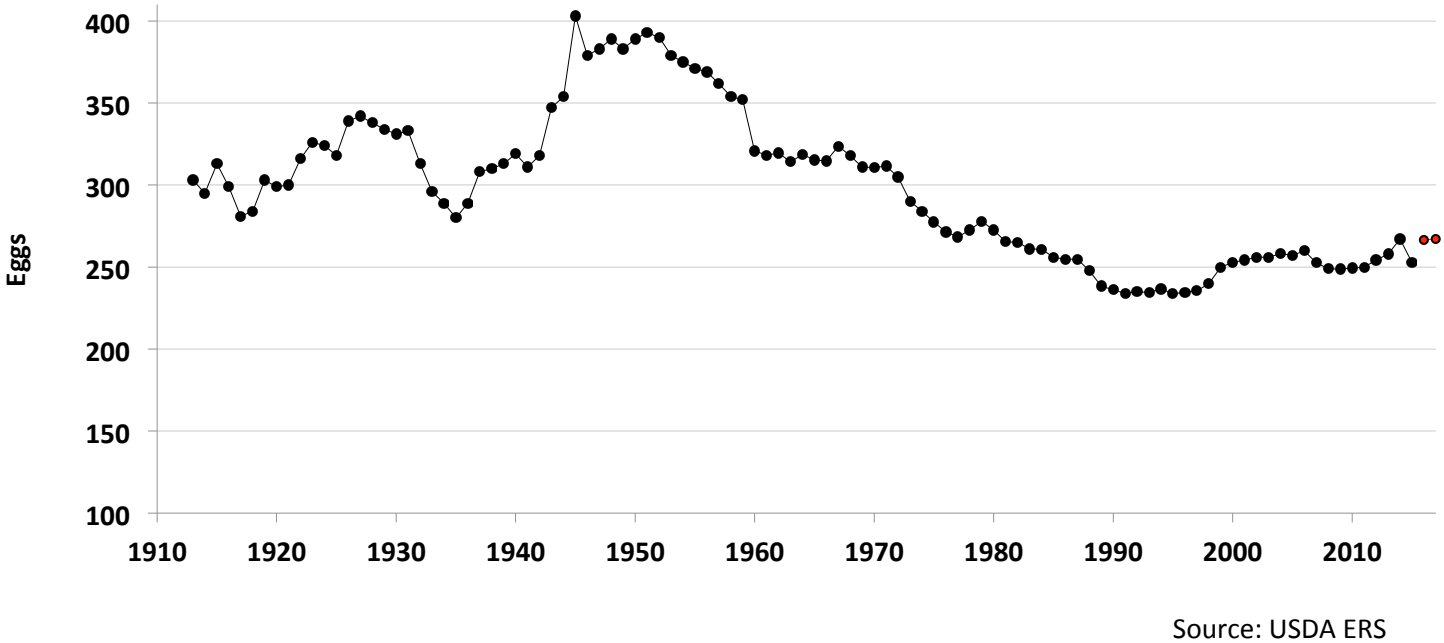


Figure 15: U.S. Per Capita Egg Consumption by Year (1913-2017)



SUMMARY TO DATE

Table 23

		2015	2016	% Change
HATCH of EGG-TYPE STRAIGHT RUN (THOUSANDS) (U.S.) (Total)	Jan to Nov	518,903	539,920	4.1
TABLE-EGG LAYERS (MILLIONS) (U.S.) (Avg.)	Jan to Nov	289.8	301.7	4.1
TABLE EGGS (MILLIONS/MONTH) (U.S.) (Avg.)	Jan to Nov	6,855	7,238	5.6
RATE OF LAY (%) (Avg.)	Jan to Nov	77.9	78.8	0.9
U.S. TABLE EGG AVG. CASES/WEEK (THOUSANDS)	Jan to Nov	1,580	1,669	5.6
AVG MONTHLY CASES OF EGGS BROKEN (MILLION) (U.S.)	Jan to Nov	5.854	6.355	8.6
		2013	2014	Difference
PERCENT OF U.S. FLOCK IN or POST MOLT (Avg.)	Jan to Dec	21.6	20.7	-0.9
AVVERAGE PULLETS ADDED/MONTH (MILLIONS) (U.S.)	Jan to Apr-2017	21.5	19.5	-2.0

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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