



The Policy Side of Avian Influenza

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Presentation Outline

1. Who is EIC?
2. The AI effect
3. The intersection of AI & Policy
4. Q & A



*Advancing
research and
outreach for a
sustainable
egg industry.*

WHO IS EIC?



Mission

To add value to the egg industry by facilitating research and learning for egg producers, processors and consumers through national and international collaboration.

Meet these goals by:

- Creating efficiencies through coordination
- Identifying industry needs that can best be impacted through the Center
- Identifying and attracting funds to direct to high priorities to accomplish more effective problem-solving
- Communicating solutions to audiences throughout the egg industry and consuming public.

What makes us unique

- Nationwide in scope
- **Give** research funds to institutions all across the U.S.
- Source of projections for flock size and price
- A clearinghouse for:
 - Science-based information related to egg production, processing, and utilization
 - Research related to industry's current/emerging issues





EIC's role in Avian Influenza

- Secure expertise in areas where it is needed
- Fund/Conduct/Encourage research where warranted
 - Understand Policy & Research intersections
 - Cleaning and disinfection (heat treatments)
 - Immediate Depopulation
- Explain market implications
- Inform the industry and its stakeholders





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THE AI EFFECT



“The outbreak of highly pathogenic avian influenza (HPAI) H5 in spring 2015 was the worst animal disease outbreak in U.S. history.”

- USDA-APHIS



Poultry Lost due to 2015 HPAI Outbreak



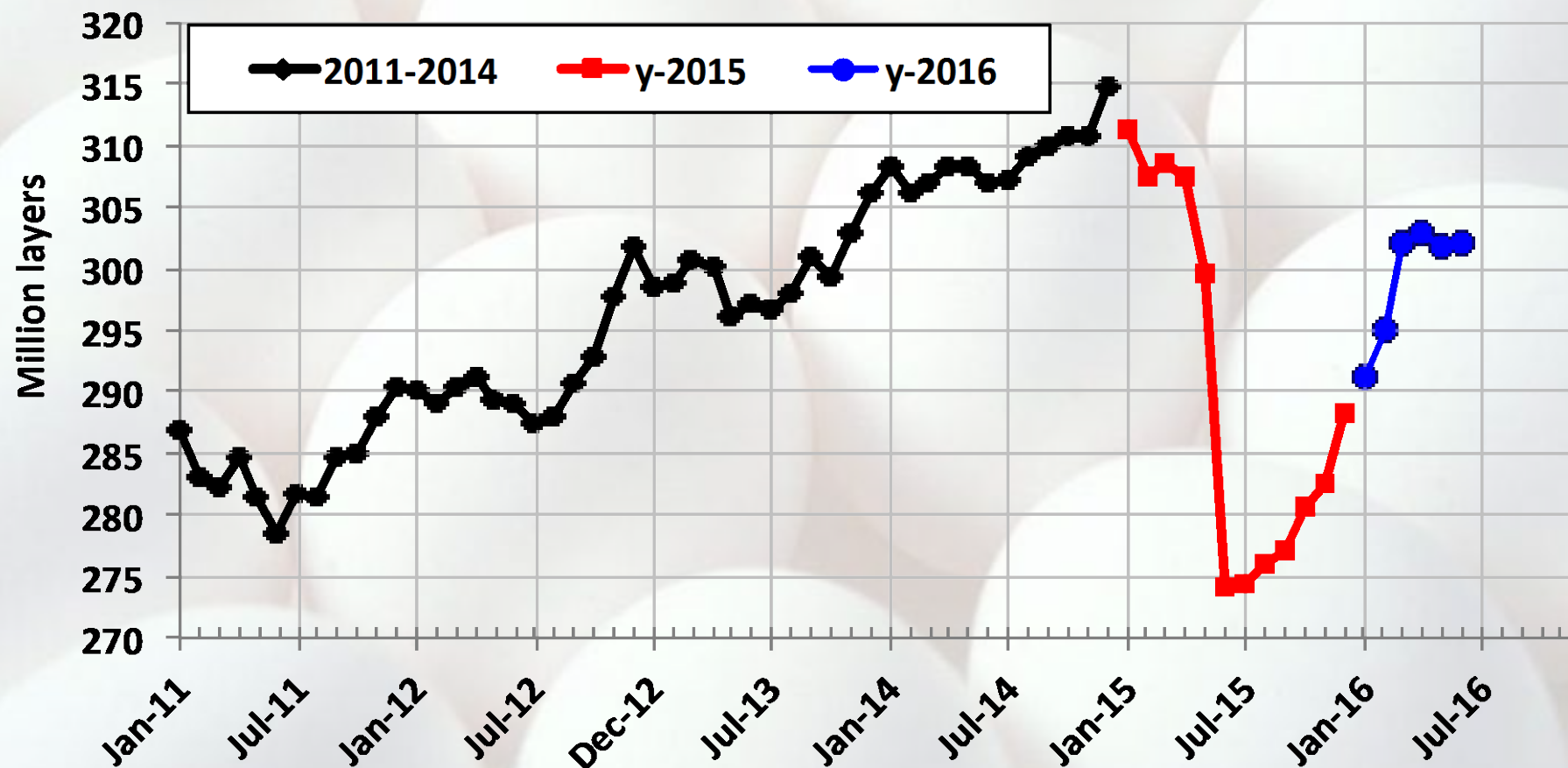
Species	Sites affected		Birds affected	
Egg Layers	32	14%	34,358,140	71%
Pullets	14	6%	5,873,700	12%
Turkeys	153	69%	7,759,520	16%
Mixed & Backyard	24	11%	99,933	0%
Total	223	100%	48,091,293	

Source: USDA APHIS

Layers affected: 14% of the sites, but 71% of the birds lost



48 M Birds – 34 M Layers, 6 M Pullets

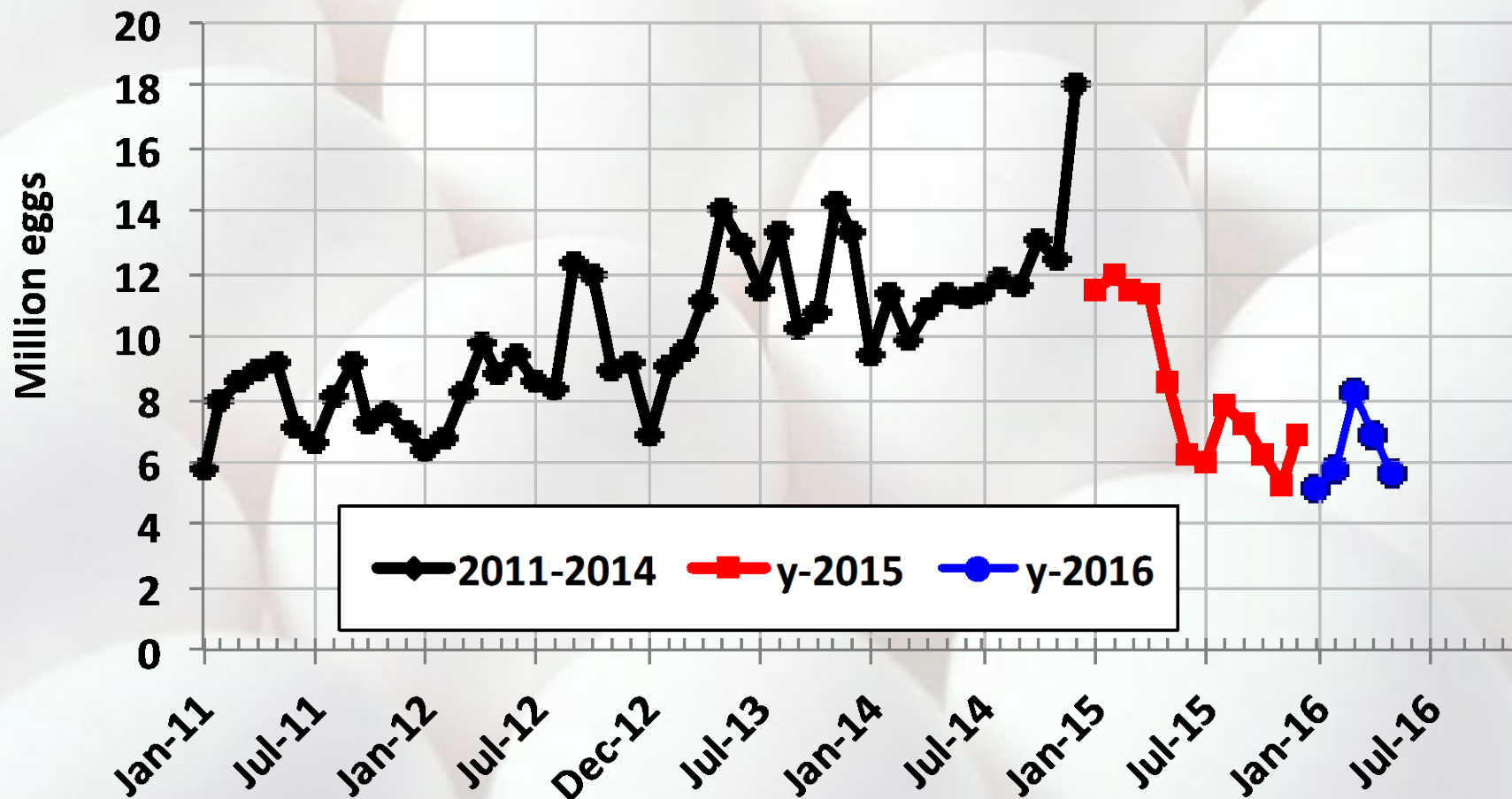


Source: USDA NASS Chickens and Eggs

U.S. Table Egg Layers 1st of the Month 2011 - 2016



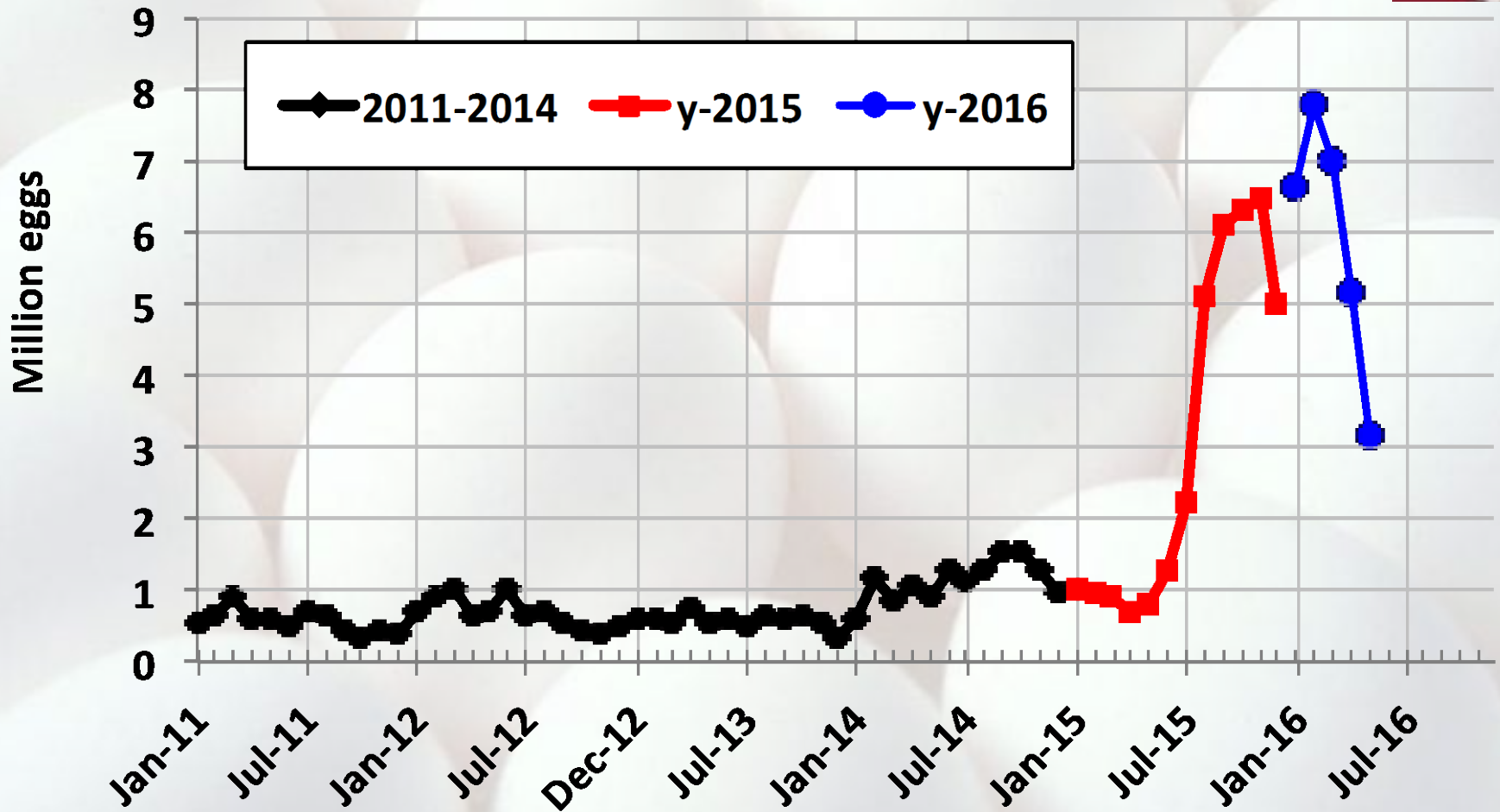
Egg Export Market Was Reduced to About Half



Source: USDA FAS

U.S. Egg Exports per Day 2011 - 2016

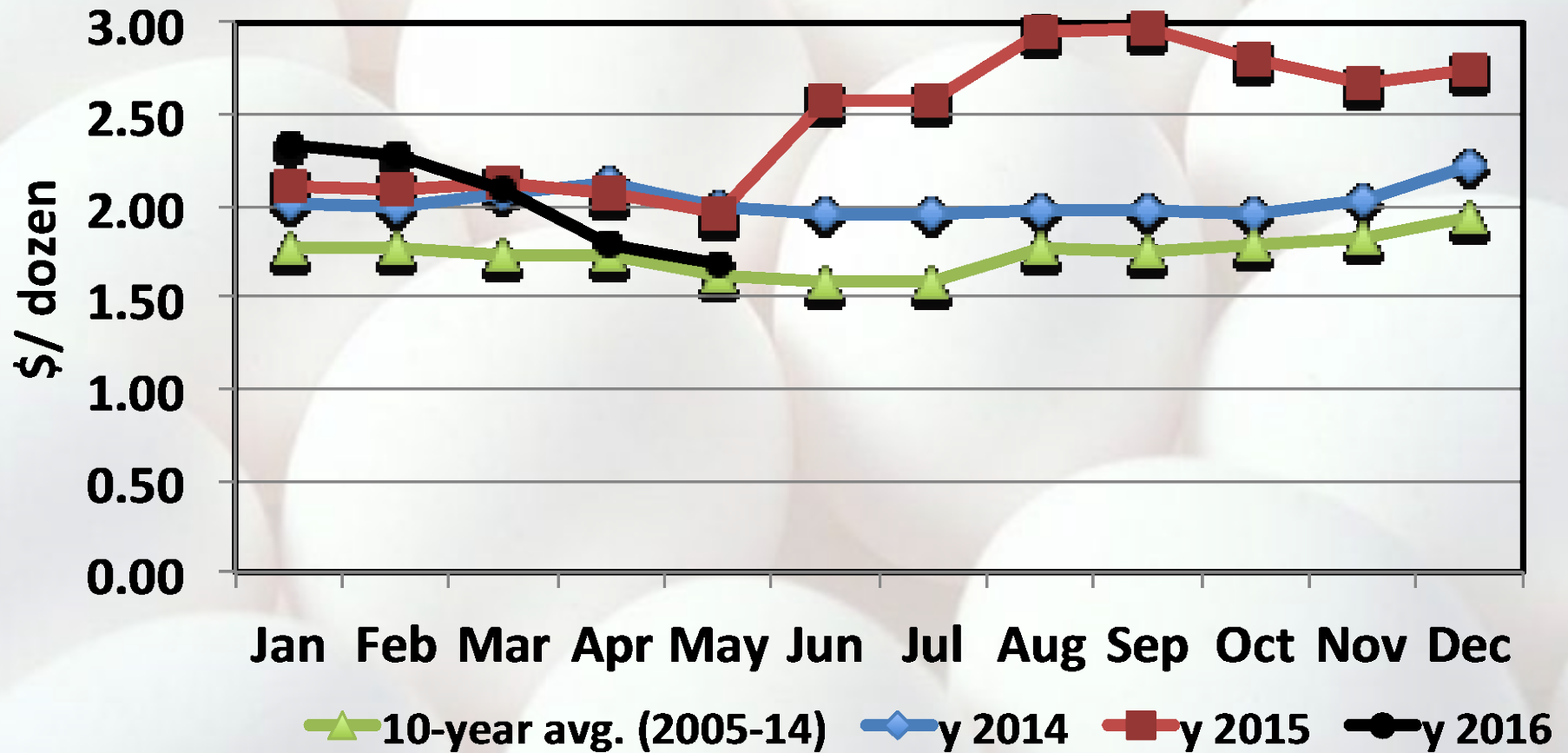
Egg Imports Skyrocketed



Source: USDA FAS

U.S. Egg Imports per Day 2011 - 2016

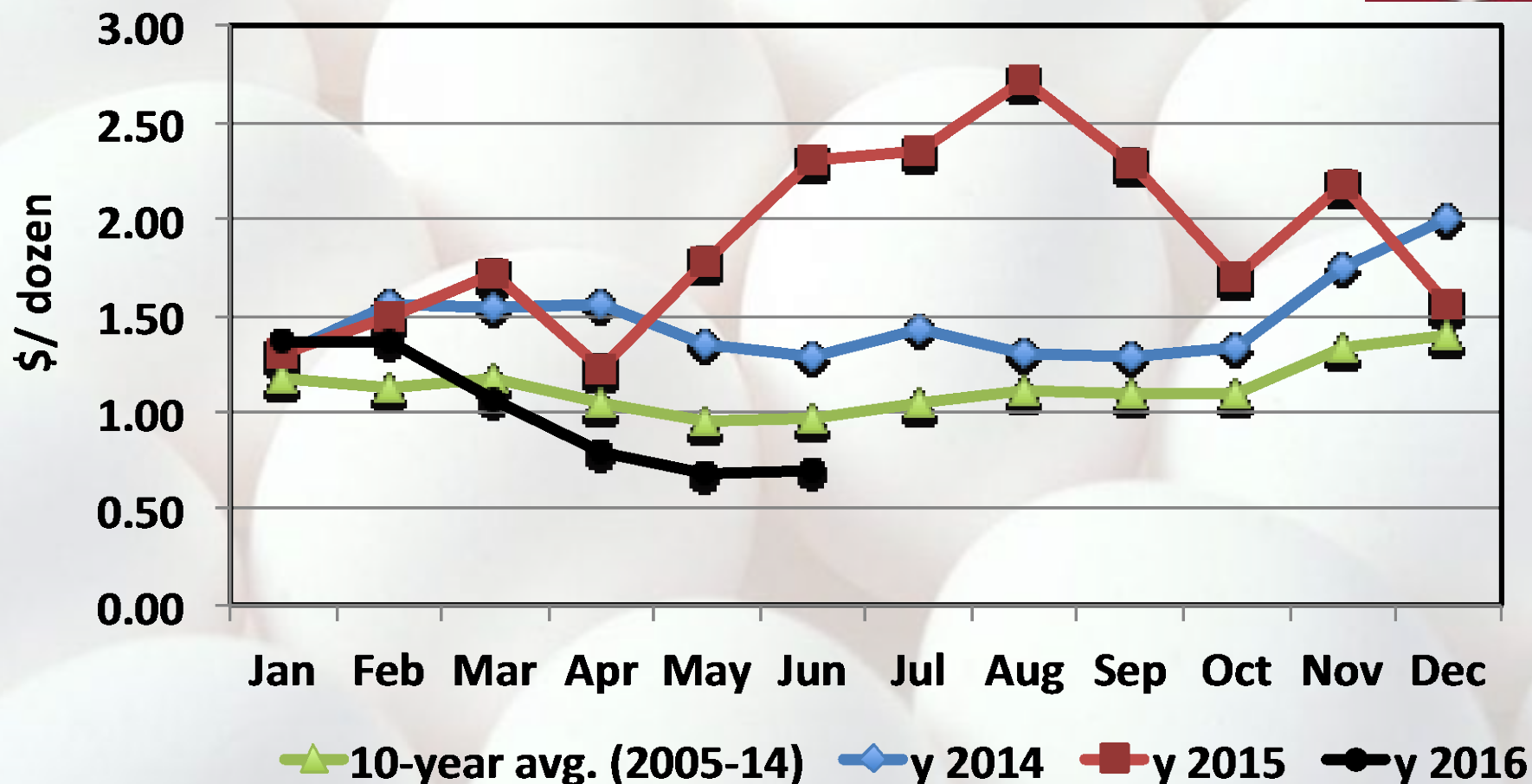
Retail Egg Prices Jumped... Then Dropped



Source: Bureau of Labor Economics

Retail Price Large White Eggs

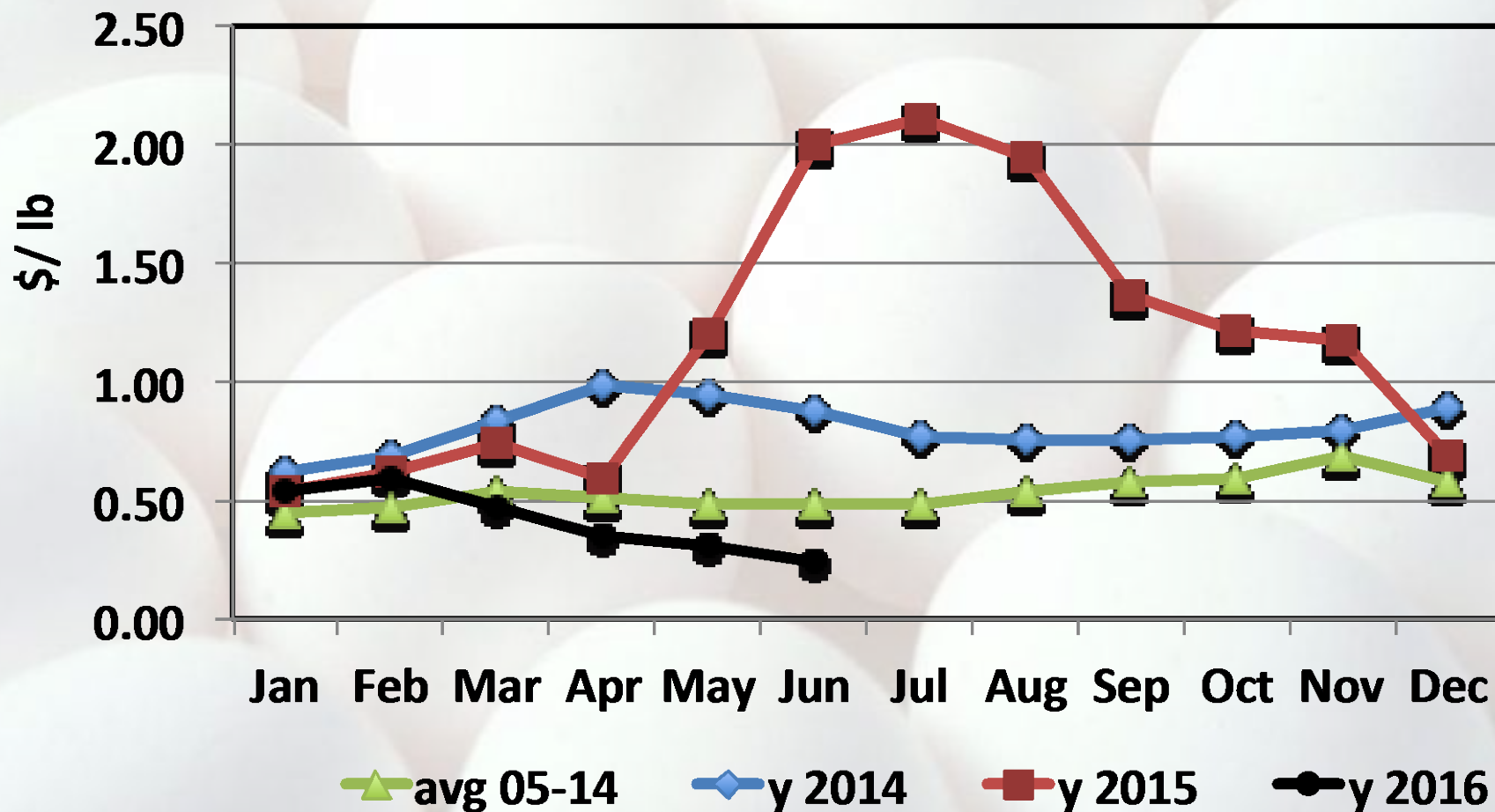
Producer Egg Prices Soared... Then Drop to Near Historic Lows



Source: Urner Barry

Midwest Large White Egg Price Delivered to the Store Door

Egg Product Prices Soared to >2x... Then Drop to Near Historic Lows



Source: Urner Barry

Whole Liquid Egg Price (Unpasteurized, Std)

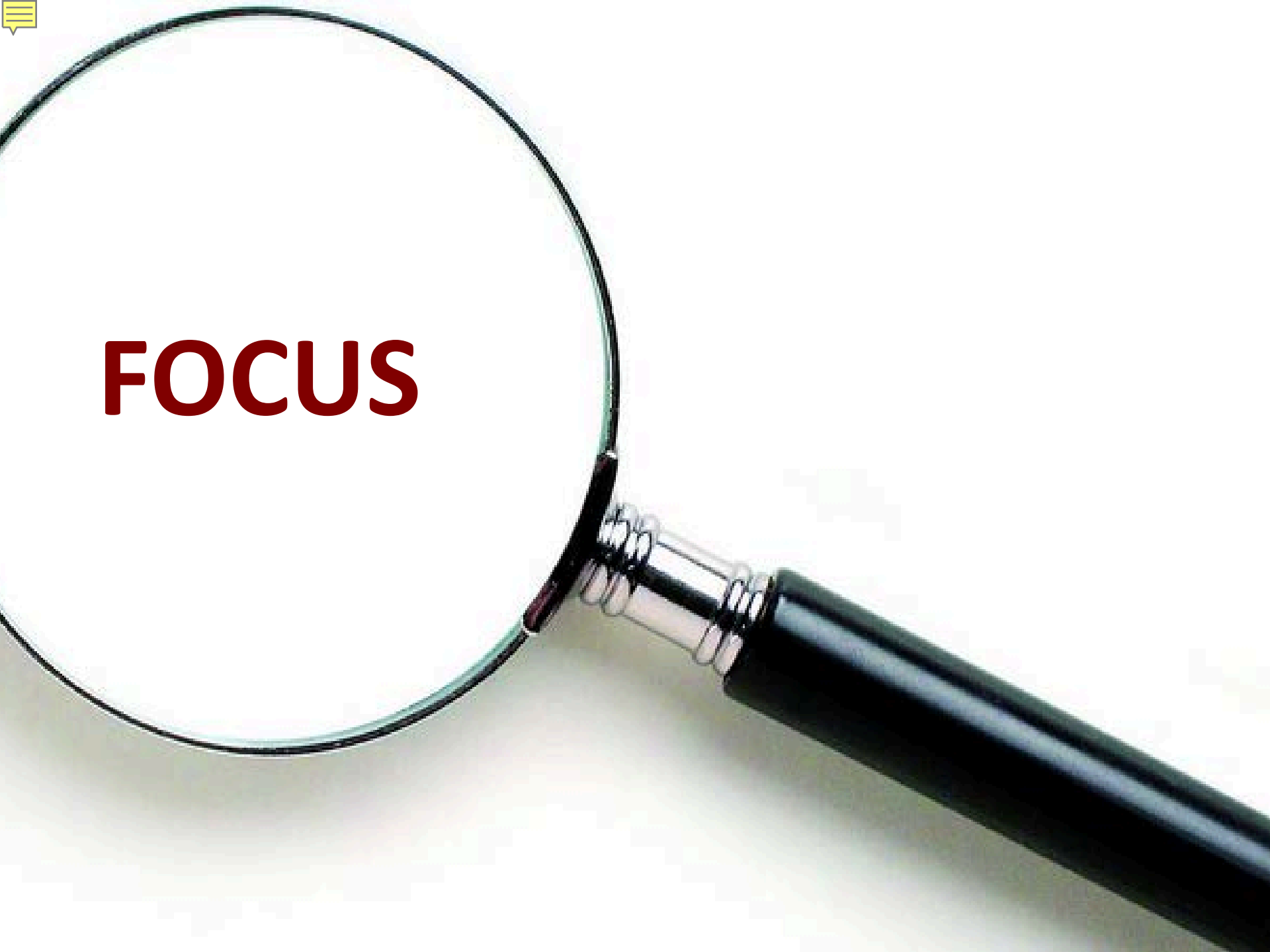


And...

- Changes were constant - and overwhelming
- Differences in viewpoints on some critical issues
- Everyone is looking for answers
- Staff are exhausted
- Kids can't show their fair projects
- Media want a story



FOCUS





Understand who is involved

Agencies

- USDA-APHIS
- U.S. Dept. of Interior
 - US Fish & Wildlife
 - US Geological Survey
- U.S. Dept. of Health & HS
 - CDC & OSHA
- State/Tribal
 - Dept. of Ag/Boards of AH
 - Public/Environmental Health
 - Natural Resources/Wildlife
 - DOT
 - Emergency Management
 - Law enforcement/Fire/HAZMAT

Industry

- National Associations
 - Eggs alone have 3 + all-feather org
- State Associations (may be multiples)
- Affected Producers
- Un-affected Producers

- Allied Industries

Those in the middle

- NPIP Coordinators and staff
- Specialized centers (EIC, CFSPH)
- University/extension folks
 - VDLs, Field Specialists
- Backyard flock owners & vets
- International Organizations



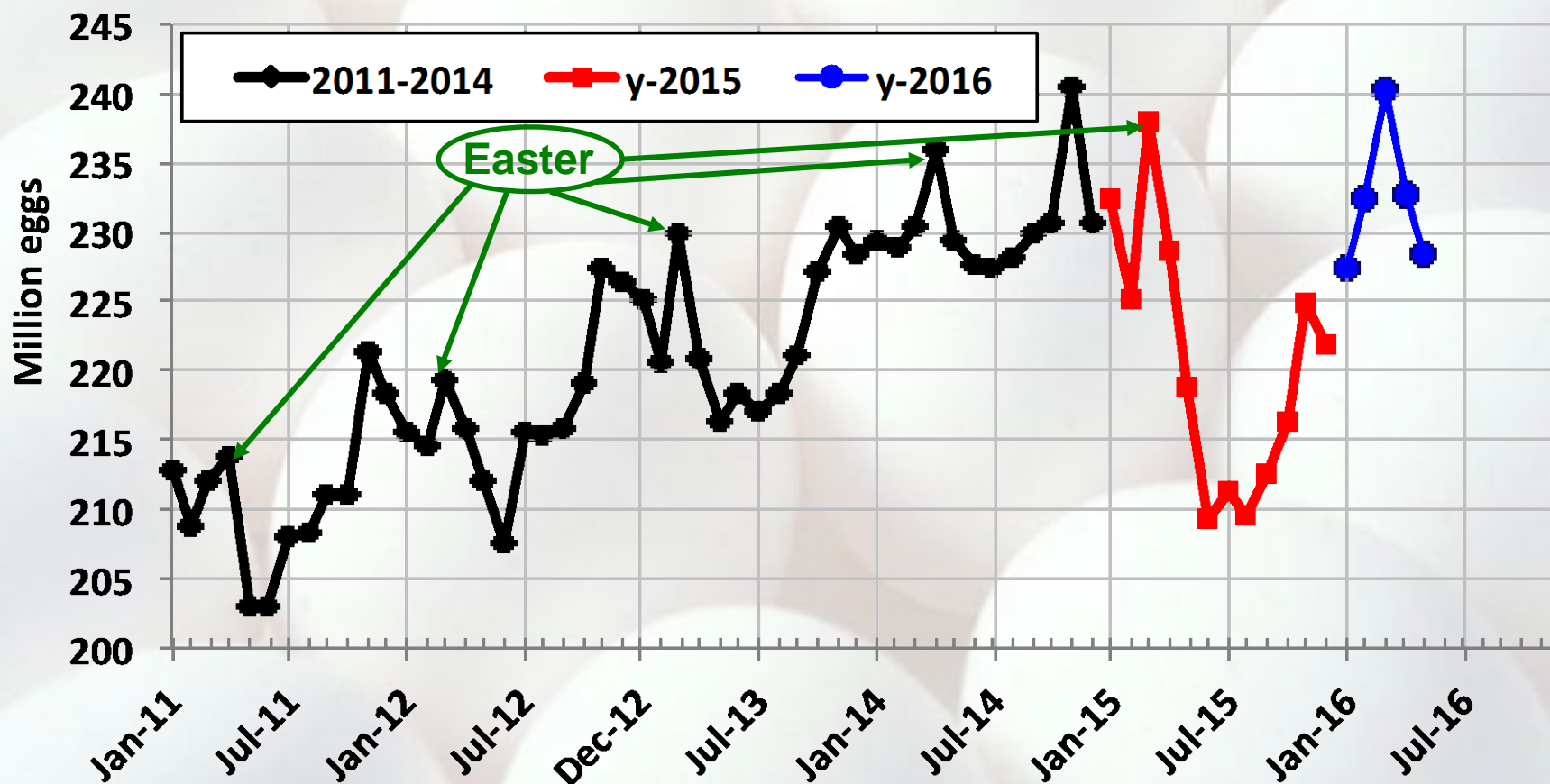
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THE INTERSECTION OF AI & POLICY



U.S. Daily Egg Use*

(Jan 2011 to March 2016)

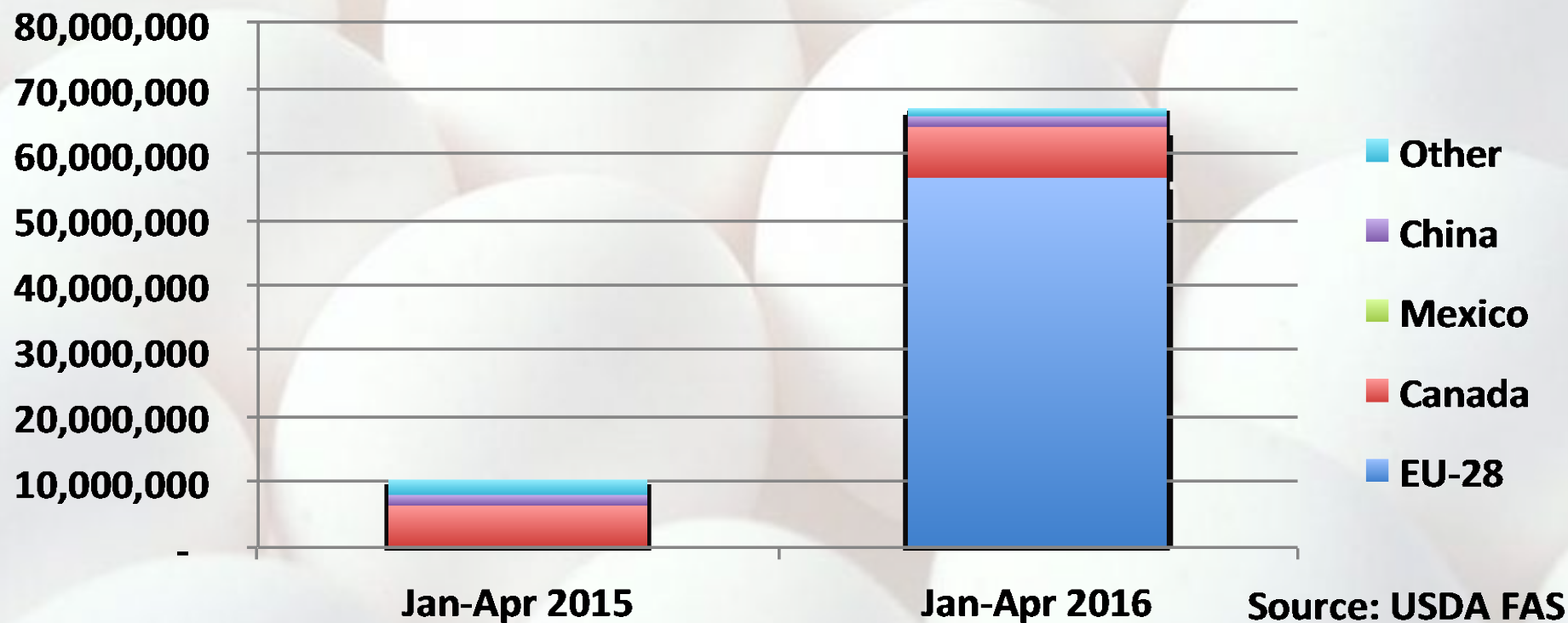


Source: USDA NASS Chickens and Eggs

* Use = **Production + Imports + Beginning Inventory** – **Exports – Final Inventory**



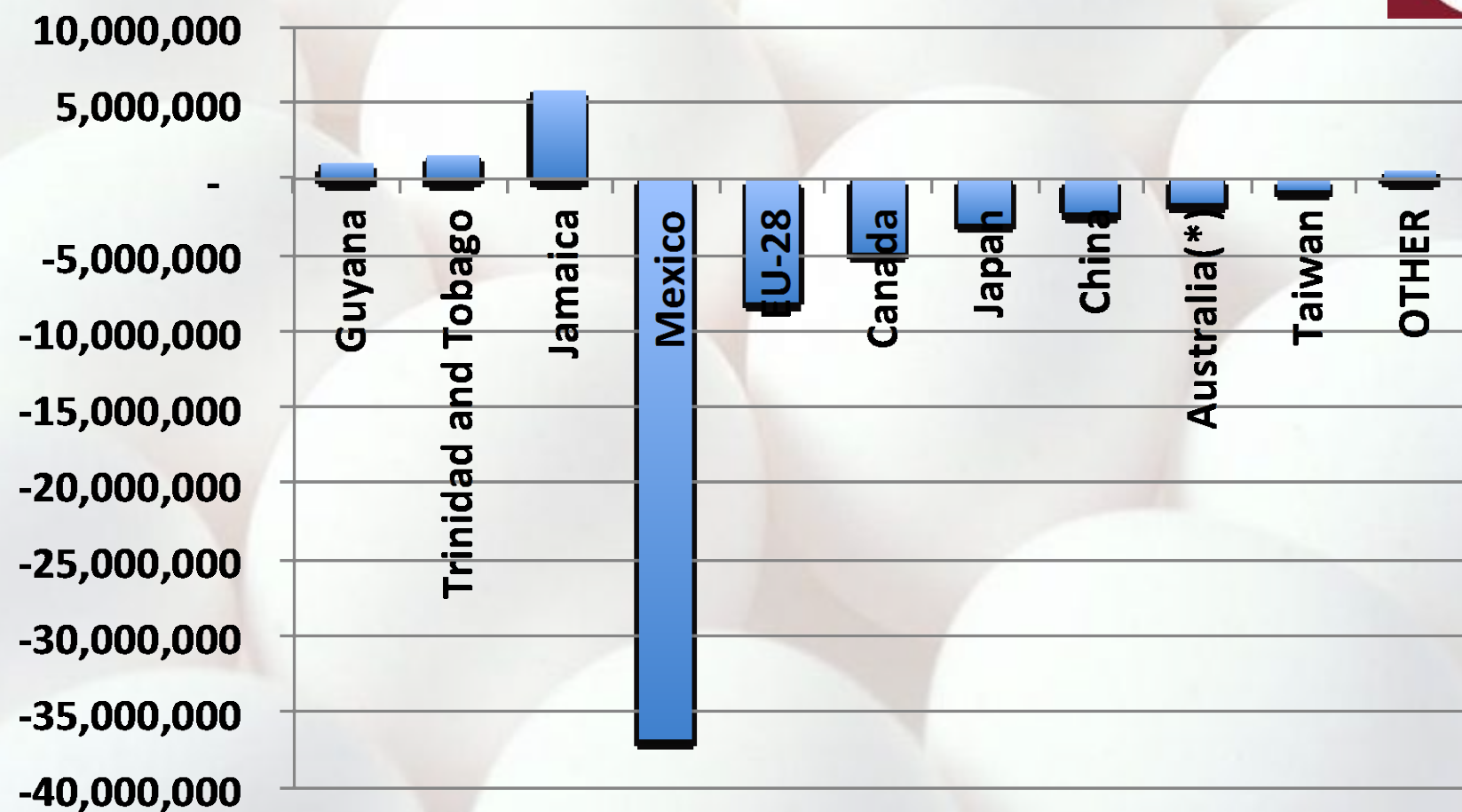
Outbreak had a dramatic affect on imports



U.S. Total Egg 1st Third Imports
by Partner Jan-Apr 2015 vs. Jan-Apr 2016 (dozen equivalent)

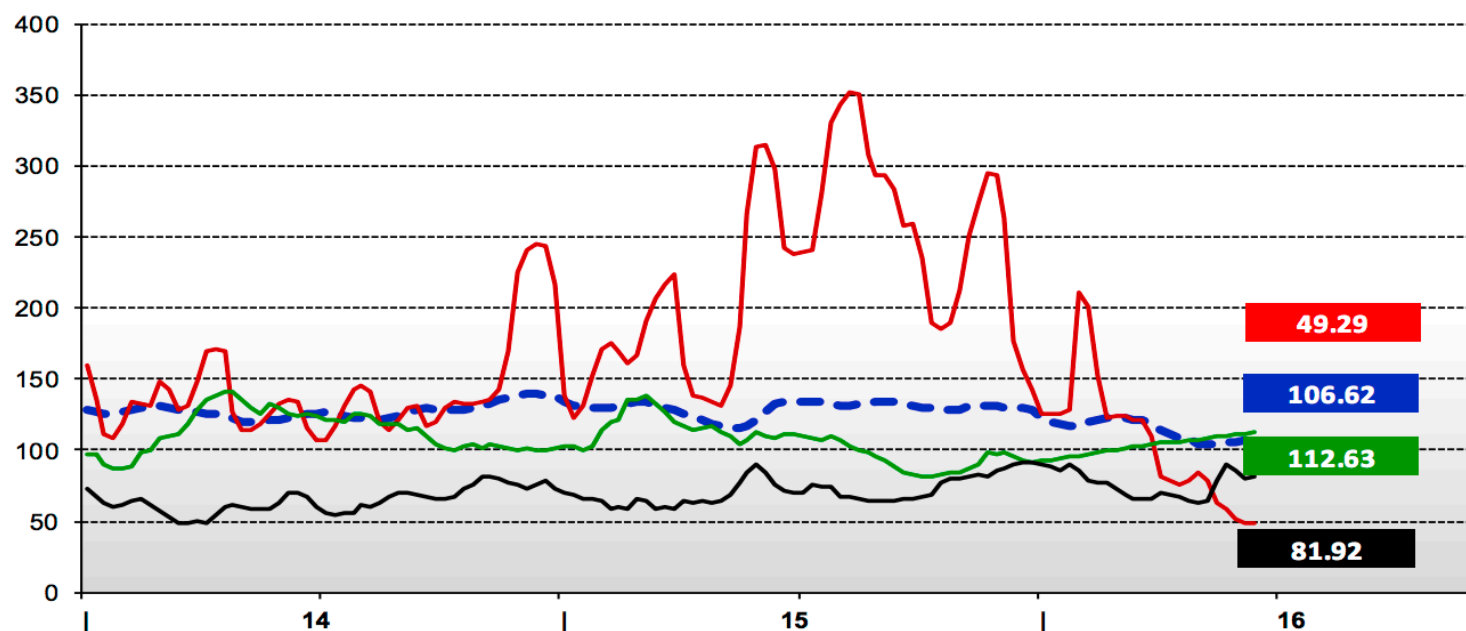
Source: USDA FAS

Outbreak had a dramatic affect on exports



Source: USDA FAS
 Change in U.S. Total Egg 1st Quarter Exports
 by Partner Jan-Apr 2015 vs. Jan-Apr 2016 (dozen equivalent)

Egg prices of EU, USA, Brazil and India in €/100kg



Sources:

EU = weighted average of MS prices - Average class L&M

US = weekly USDA prices - Eggs grade A, Chicago

BR = average of prices in main producing states - (noticiasagricolas.com.br)

IN = average of NECC prices in available Production Centres - (e2necc.com)

EU egg Euro

US egg Euro

BR Egg Euro

IN NECC Euro



Trade & Vaccinations



Then

- Vaccination may be used to increase the disease resistance in poultry. 5/6/15
- Stakeholders voice concerns. 5/7/15
- Additional criteria for use needed. 6/3/15
- No vaccination used during outbreak.

Moving Forward

- APHIS awarded contracts to build vaccination stockpile 10/13/15
- APHIS policy for AI vaccination described in VS Memorandum 565.12 Vaccination may be considered as part of a suppression or eradication strategy in an outbreak. 1/13/16
- International work on compartmentalization and zoning



Movement of items in control areas



Then

- Permits required (conditions)
 - Secure Supply Plans provide base (Egg, Turkey, Broiler)
 - Some farms were pre-qualified
 - Not all states adopted SSP or adopted at various levels
 - USDA's Emergency Management Response System (EMRS)
 - Not all states use EMRS so if trying to work with a state that doesn't you need a different systems
- IDALS issued a total of 3,700 movement permits to 42 states and the Virgin Islands.

Moving Forward

- Secure Supply Plans discussions on revision (9/16)
- Process for permits will likely stay the same



Communications



Then

- Assuring consumers
 - USDA is working on animal health
 - HHS is working on human health
- Briefing on status and the actions being taken
 - Media, public, industry, congress, trading partners, and others
- Ensure consistent messaging regarding animal health, public health, and food safety
 - Federal, State, and local agencies, Tribal entities, producer groups, and Land Grant University-based Cooperative Extension services

Moving Forward

- Redbook is still same as listed to the left.
- New state checklist initiates coordination on timing and content release. 2/16/16
- Realization that local resources may be better equipped to mobilize needs

HIGHLY PATHOGENIC AVIAN INFLUENZA
RESPONSE PLAN
THE RED BOOK

FAD PReP

Foreign Animal Disease
Preparedness & Response Plan

USDA



Depopulation/Disposal



Then

- Initial farms were 10 days + without full depopulation
- Foamers do not work in most egg facilities – can also freeze.
- CO₂ carts take too long and require proper labor to humanely handle birds.
- Composting methods & cost were not agreeable to all.
- Multiple options were needed.
- Transport of mortalities was an issue.

Moving Forward

- Mass depopulation and euthanasia not synonymous. 9/18/15
- Rapid depopulation is needed to control virus spread.
 - Goal: 24 hrs after HPAI detection
 - IDALS goal: keep disposal on-site
- Policy and decision tree for using VSD issued. 9/18/15
- Composting Protocol for All Flocks Issued. 2/5/16
- Landfill Guidance 4/18/16



Cleaning/Disinfection



Then

- Begins within 48 hours after depopulation.
 - Water and feeding systems, ventilation, slats, nest box material, egg packing machines, egg storage areas, floor areas, the exterior of the house, and other materials and areas must be cleaned and disinfected.
- Lengthy delays = Cooperative Compliance Agreements
- USDA case managers varied in interpretation of standards

Moving Forward

- Shift to focus on the end result and not the process
 - cleaning and disinfection vs. goal of virus elimination
 - Includes:
 - Dry cleaning
 - Heating
 - Wet Disinfection
 - Fumigation
- Flat rate payment established to be paid in two installments 1/8/16



Indemnity

Background

- 9 CFR part 53
- Provides for the payment of indemnity to owners of animals that are required to be destroyed because of...or any other communicable disease of livestock or poultry that, in the opinion of the Secretary of Agriculture, constitutes an emergency and threatens the U.S. livestock or poultry population.
- Payment for animals destroyed is based on the fair market value of the animals at the time of their destruction.



Indemnity



Then

- Some farms had passed USDA-sponsored biosecurity audit with perfect score (60d).
- Paperwork and personnel issues delayed indemnity.
- Payment specified to go to only bird owners.
- Covered eggs destroyed but not those not produced.
- Calculations seemed to double-tax producers.
- Bird production-span was based on old data.

Moving Forward

- Interim-rule effective 2/9/16 outlining changes to:
 - Required statement regarding presence and implementation of biosecurity plan (including specifics as indicated in the rule)
 - Development of a plan for Federal, State, or industry-led oversight of the biosecurity plan and a mechanism for verification.
 - Payment process in owner/contractor situations
- Paperwork streamlined
- Calculations adjusted slightly.

[Consumer Information & Resources](#)[Food Industry Resources](#)[Elected Officials Resources](#)[Media Resources](#)[AI Useful Links](#)[Request Additional Information](#)[Home](#) / [Avian Influenza & Eggs](#)

Avian Influenza in Egg-Laying Hens

What you need to know

Avian influenza (AI)—also known as the “bird flu,”—is an infectious disease of birds caused by type A strains of the influenza virus. The identified strains of AI found in 2015 on U.S. egg farms have not affected any humans and are not considered a risk to public health, according to the Centers for Disease Control (CDC).

Avian influenza cannot be transmitted through safely handled and properly cooked eggs. All eggs should be cooked thoroughly and at recommended temperatures to reduce the risk of any foodborne illnesses. To learn more about cooking and handling eggs, visit the [Egg Safety Center](#) or the [food safety](#) page by the US Department of Health & Human Services. [Click here](#) for USDA information on avian influenza and egg safety.

Latest information

There have been no new detections of Avian influenza in egg farms in the U.S. since June 17, 2015. For information related to the outbreak in spring 2015, see the [USDA-APHIS](#) website. To better understand how the U.S. egg industry is recovering from the outbreak, see the [consumer information](#) page.

AboutAvianInfluenza.org is provided by the Egg Industry Center, American Egg Board and United Egg Producers.

THE EGG INDUSTRY CENTER

Adding value to the U.S. Egg Industry by providing scientific information and data analysis to egg producers and processors, their associations, allied industry and today's data-minded consumers. The Egg Industry Center is administered by the College of Agriculture and Life Sciences at Iowa State University.

[MORE ABOUT US](#)

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