

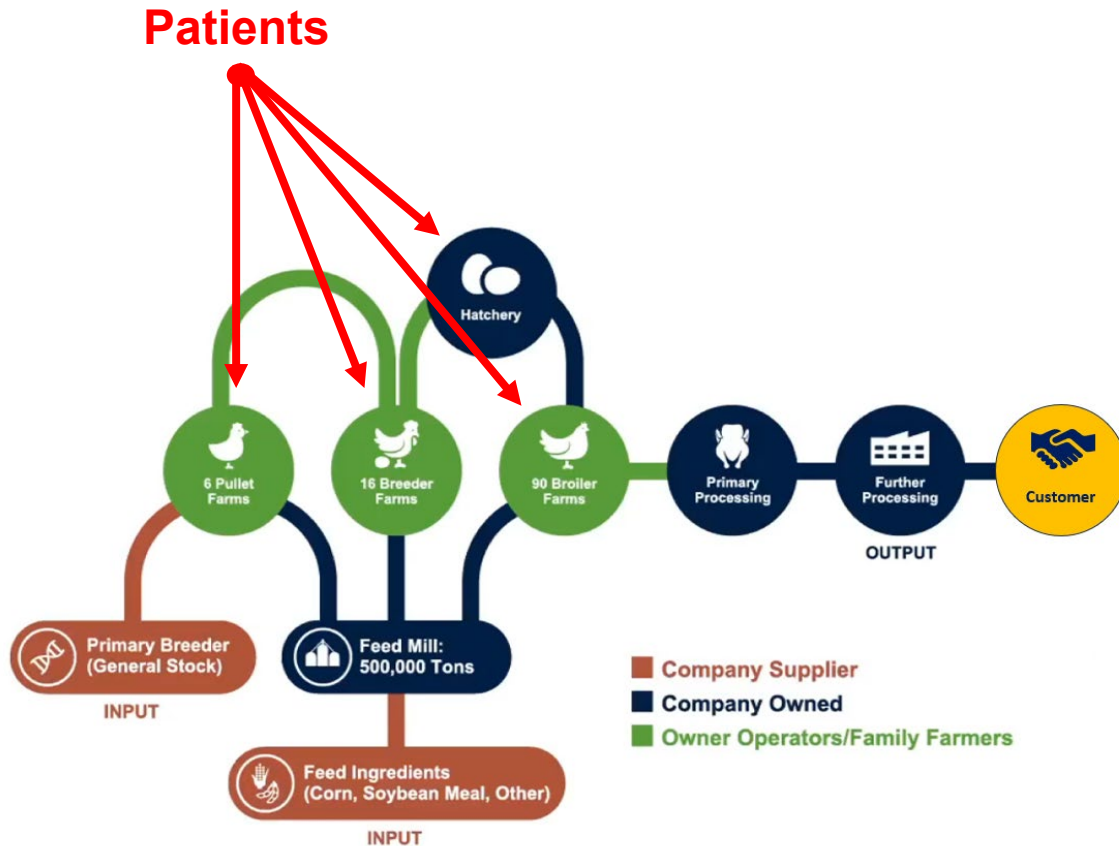
Patient Perspective: Experiences of a Poultry Veterinarian

Ken Opengart, DVM, PhD, DACPV

March 4, 2024

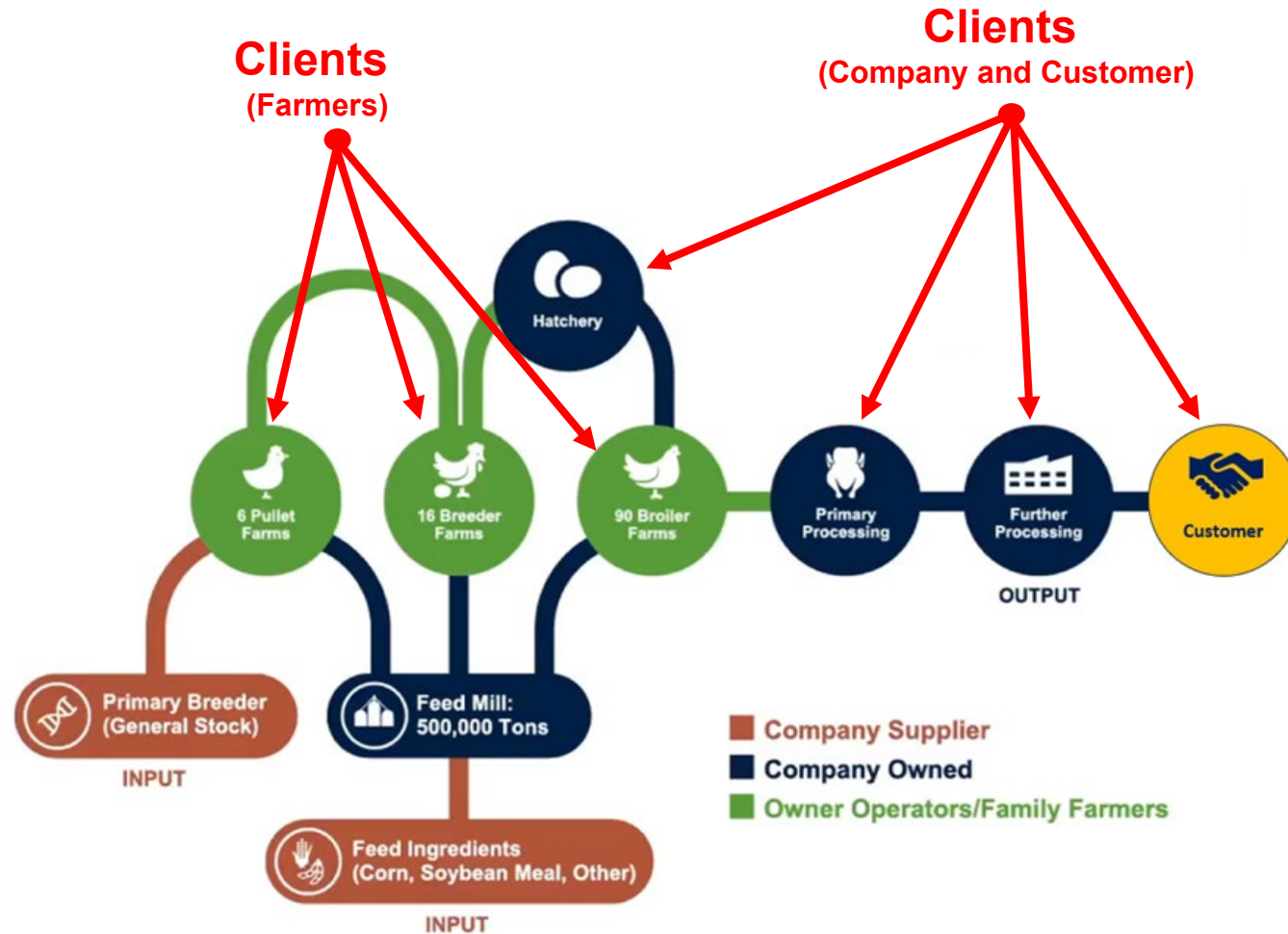


Working within a Vertically Integrated System



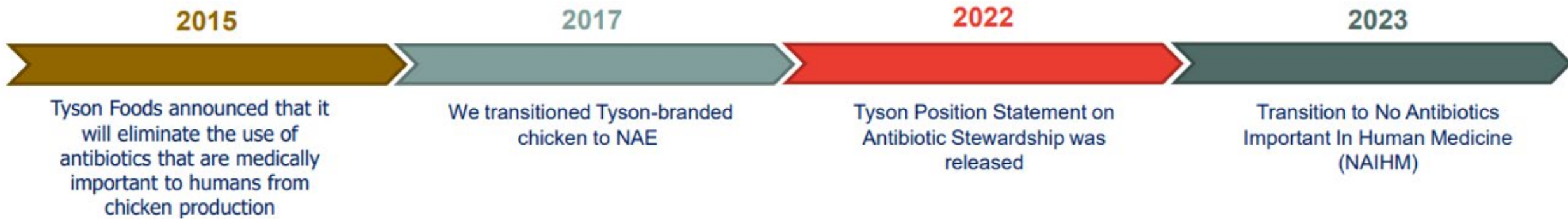
- Company mandated animal health, management and biosecurity programs.
- Company maintains ownership of birds.
- Company provides dedicated veterinary oversight.
- Veterinarians:
 - Design health management programs
 - Train operations team to act as eyes and ears
 - Involved with disease diagnosis
 - Oversee medication decisions
 - Maintain all treatment records
- Farmers are under contract to specific company.
- Contract mandates farmers must follow programs.

Working within a Vertically Integrated System



Broiler Antibiotic Use – U.S.

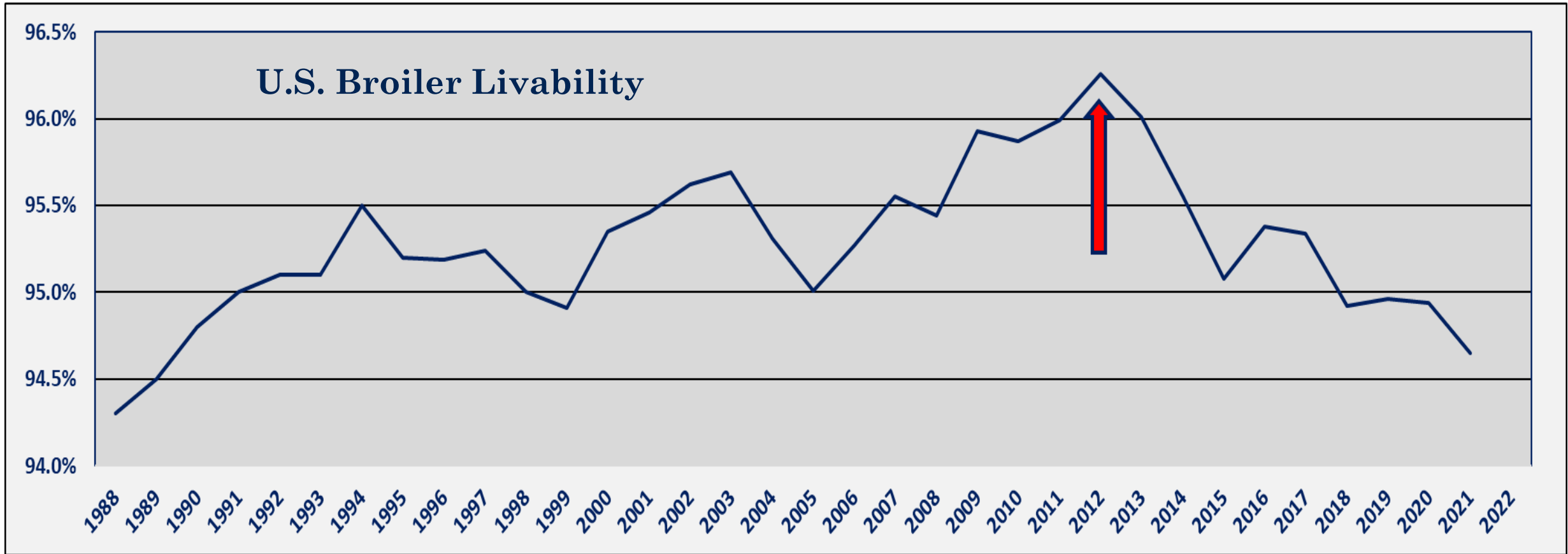
Recent transition in U.S. chicken from No Antibiotics Ever (**NAE**) to No Antibiotics Important for Human Medicine (**NAIHM**)



Broiler Antibiotic Use – U.S.

- Allows Tyson to use antibiotics only approved for use in animals which are, therefore, not important for use in human medicine as defined by WHO.
 - Ionophores for the control of coccidiosis
- Aligns with Tyson Foods Position Statement on Antibiotic Stewardship.
 - Prioritizes animal health and welfare over restrictive antibiotic use programs that do nothing to reduce the potential for medically important antimicrobial resistance development.
- Improves overall health and welfare of animals entrusted to our care.
- Positively impacts other aspects of sustainability of the poultry production value chain.
 - Improved land and water stewardship
 - Reduced GHG emissions.
 - Food security - high quality, affordable, accessible protein.

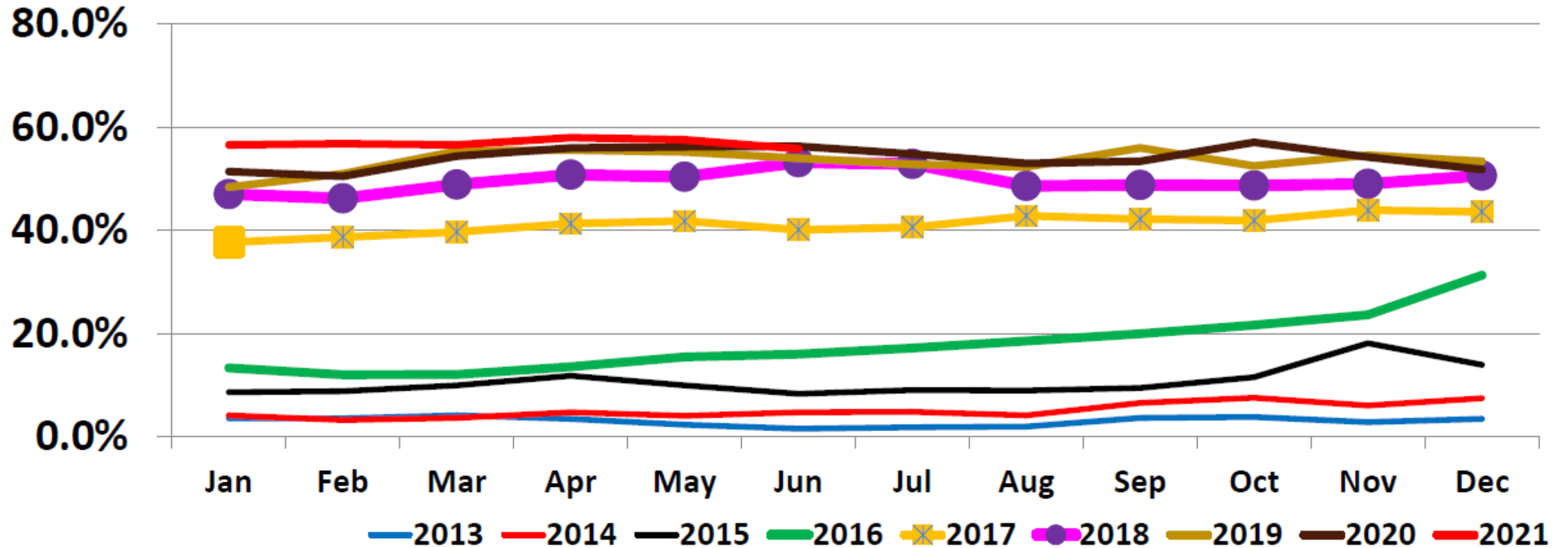
U.S. Broiler Industry Trends



Source: Agri-Stats

Percent of U.S. Broilers Raised as ‘No Antibiotics Ever’

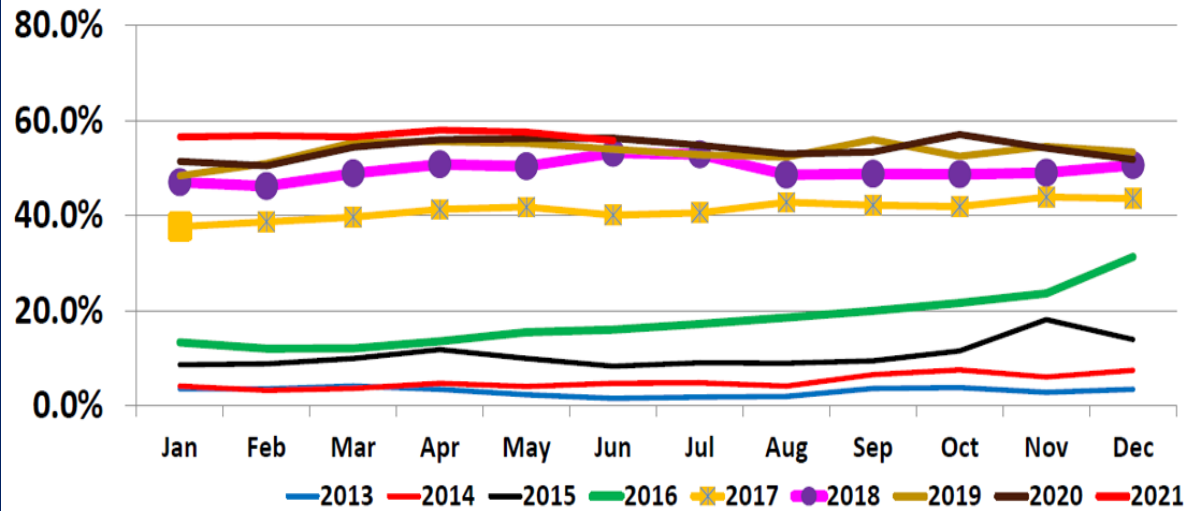
January 2013 through December 2021



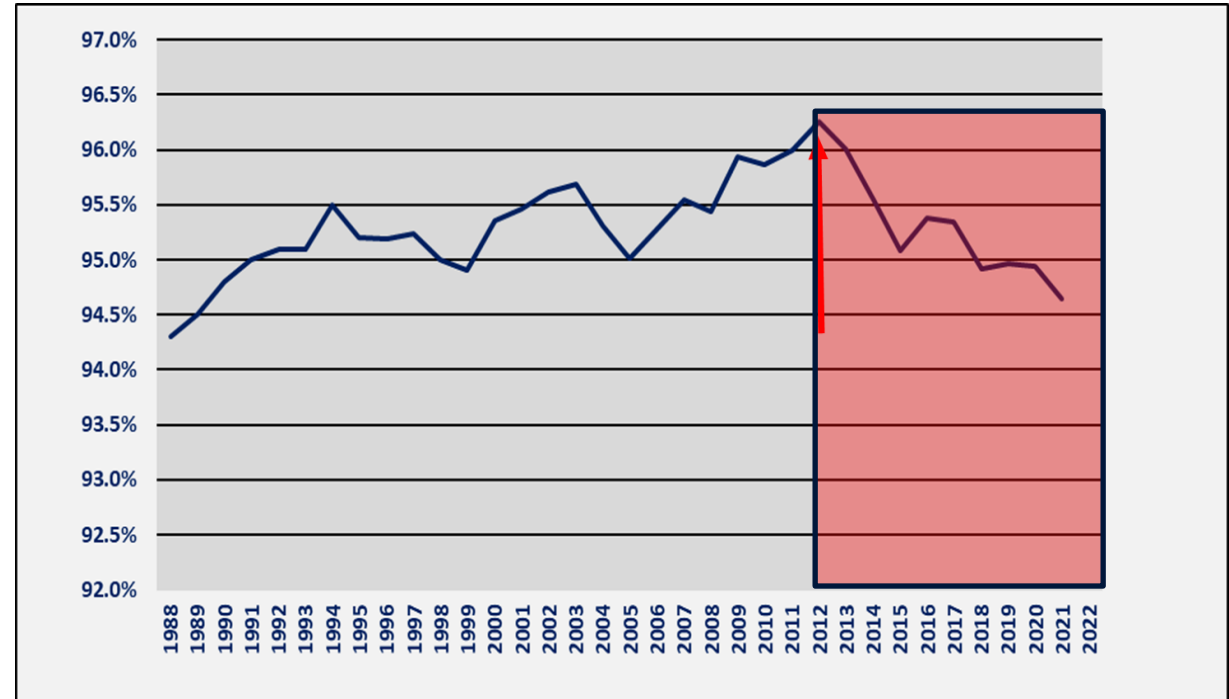
Source: Agri-Stats

Every Choice Has Consequences

Percent of U.S. Broilers Raised as 'No Antibiotics Ever'
January 2013 through June 2021



Source: Agri-Stats



Source: Agri-Stats

Collaborative Efforts to Better Understand Antimicrobial Use and Resistance

Antibiotic Use:

- Study coordinated by Dr. Randy Singer (UMN) with support from FDA and US Poultry and other supporting organizations.
- National effort to collect antimicrobial use data of U.S. broiler, layer, and turkey industries.
- Voluntary participation of U.S. broiler, layer, and turkey companies.
- Data collected from 2013 – present.
- Conclusions:
 - Noticeable improvements in data management with respect to antimicrobial use.
 - Reduced use should not be the primary goal; reduction can be a part of a stewardship.
 - Reducing the need for antimicrobials should be considered a more important goal.
 - Some of the most important diseases have imperfect interventions.
 - May be years when antimicrobial use increases due to increases in disease incidence that necessitates increased therapy.



Broiler Paper



Layer Paper



Turkey Paper



Mindwalk

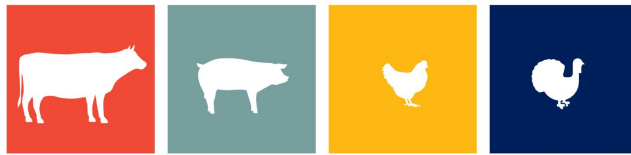


UNIVERSITY OF MINNESOTA

Collaborative Efforts to Better Understand Antimicrobial Use and Resistance

Antibiotic Use and Resistance:

- Study coordinated by Dr. Randy Singer (UMN) with support from USDA-APHIS, CFDA, and National Chicken Council.
- No current national effort to collect AMU and AMR data at the level where the selection pressure is being applied (i.e., on the farm).
- Voluntary participation of U.S. broiler companies.
- Enrolled companies produced greater than 50% of RTC broiler chicken in 2021 based on USDA-NASS slaughter data.
- Study details:
 - Bedding material collected from each broiler house within the study along with antibiotic use information.
 - Cultured for Salmonella, Campylobacter, E. coli, and Enterococcus.
 - DNA extracted from bedding material.



**Every animal.
Every day.**

