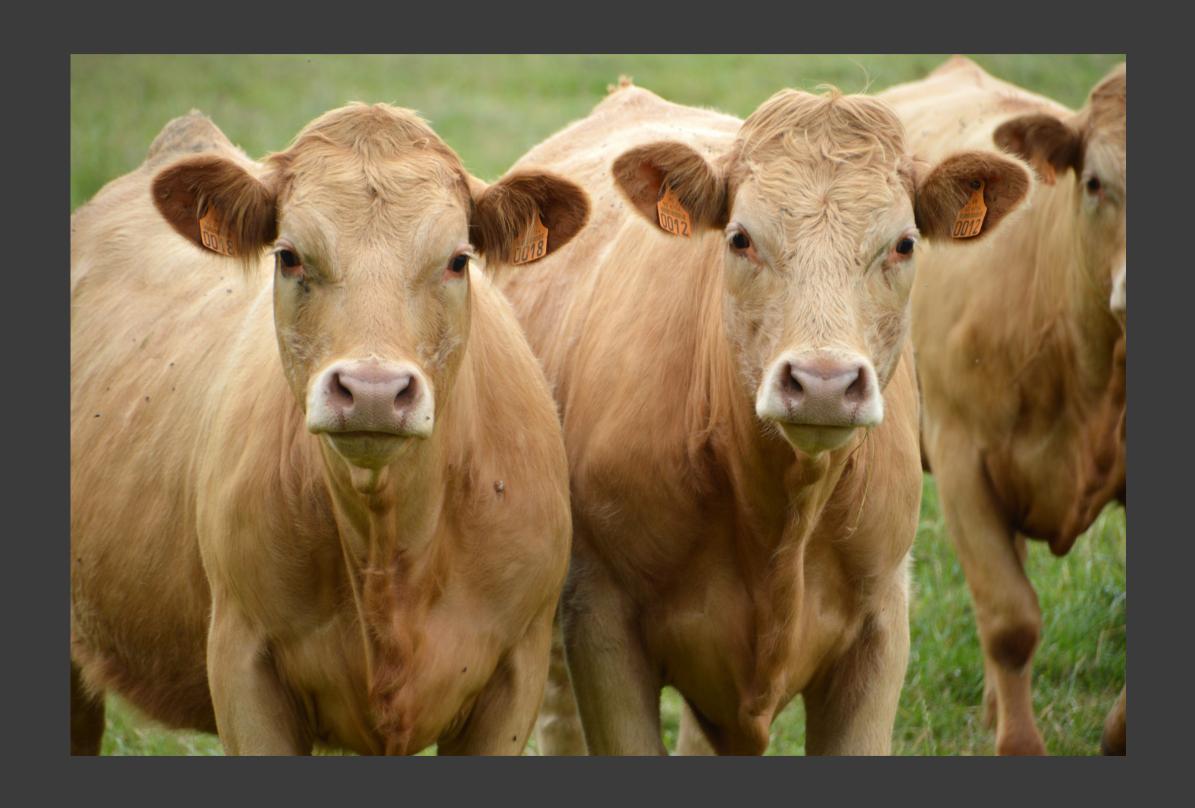


#### Overview

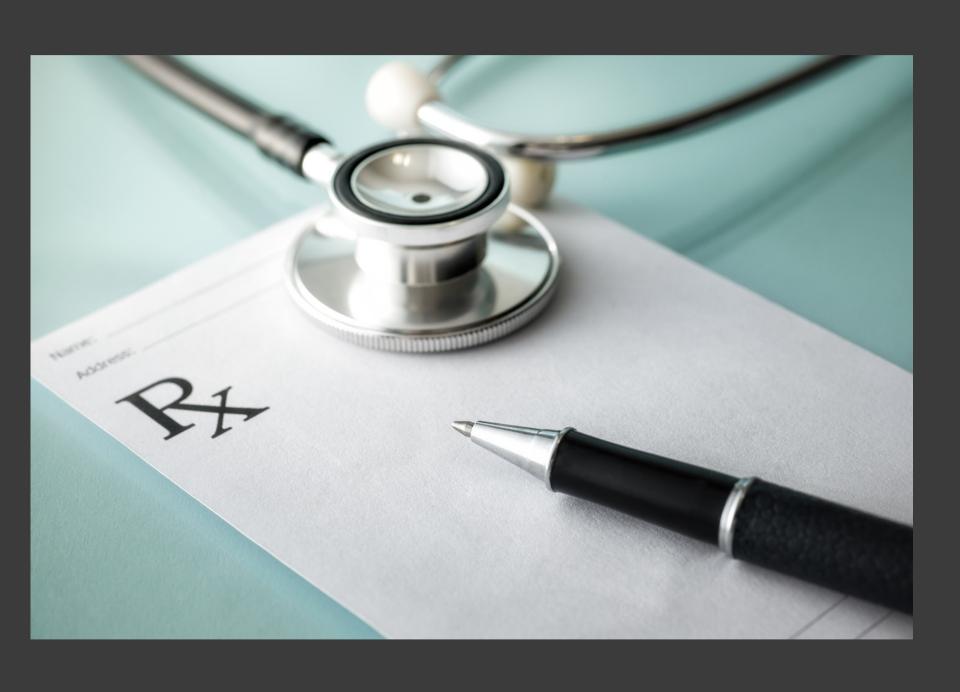
Part 1: What's Changing

Part 2: Why The Change

Part 3: How To Prepare

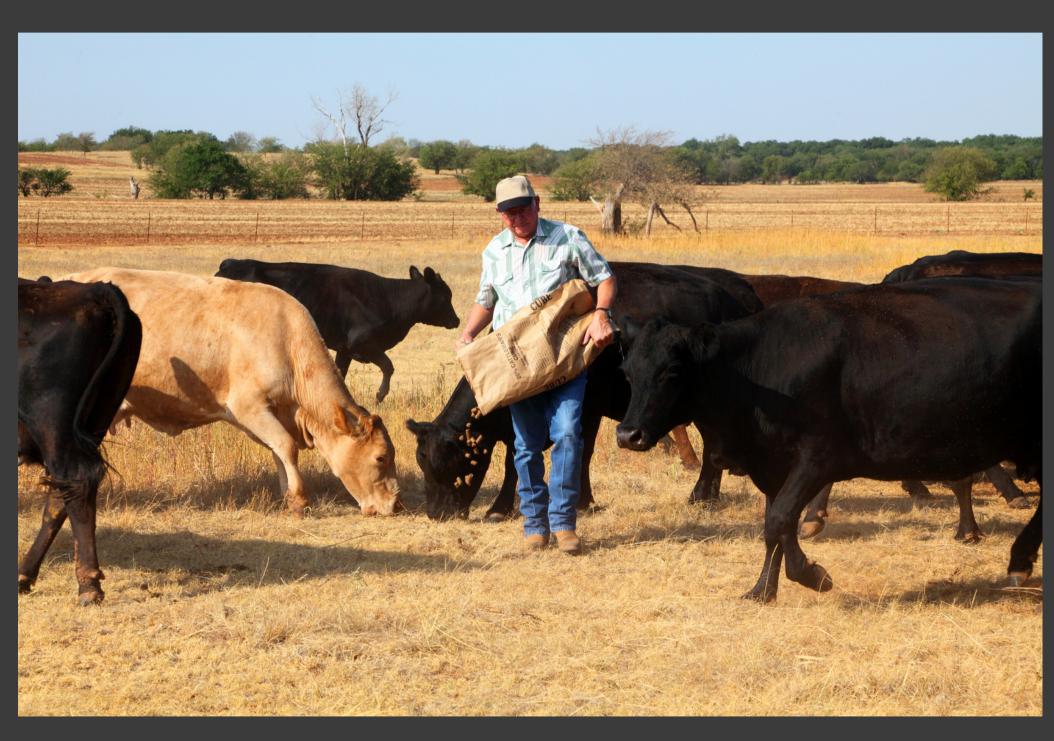


#### FDA Guidance for Industry #263



- June 11, 2023
- Voluntary by Companies
- Veterinary Prescription Required
- Medically Important Only
  - Only 4% of Products
  - Penicillin
  - Oxytetracycline

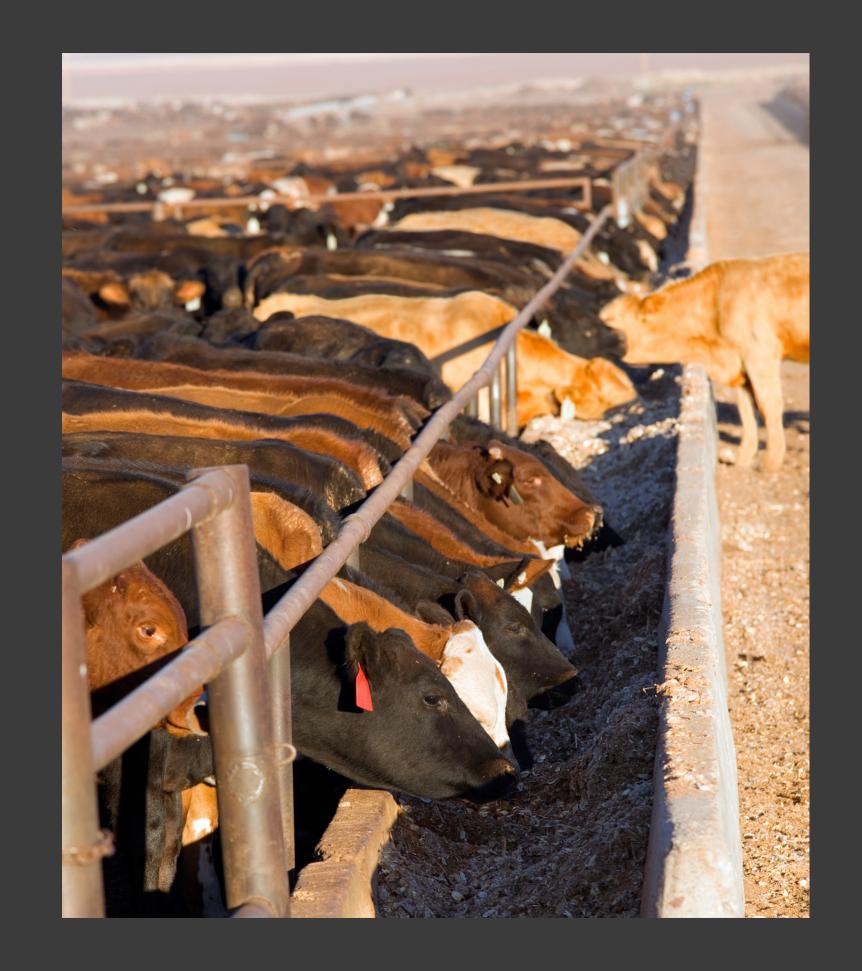
### FDA Guidance for Industry #263



- Does Not Impact
  - Current VFDs
  - Anthelmintics
  - Oral Mineral
  - lonophores
    - Monensin
    - Lasalocid

# Pharmaceutical Stewardship

- Limited Options
- No New Classes
- New Strains of Organisms
- Resistance
  - Human Medicine
  - Animal Medicine



# ANTIMICROBIAL SUSCEPTIBILITY PROFILES: BOVINES CY 2022 Oklahoma Animal Disease Diagnostic Laboratory

NOTE: Data reported as: % susceptible (# isolates tested)

ANTIBIOTIC	Mannheimia haemolytica	Histophilus somni	Pasteurella multocida
Ceftiofur	100% (18)	100% (18)	100% (8)
Danofloxacin	56% (18)	67% (18)	100% (8)
Enrofloxacin	44% (18)	67% (18)	100% (8)
Florfenicol	83% (18)	72% (18)	75% (8)
Gamithromycin	45% (11)	50% (14)	50% (6)
Penicillin	67% (18)	78% (18)	88% (8)

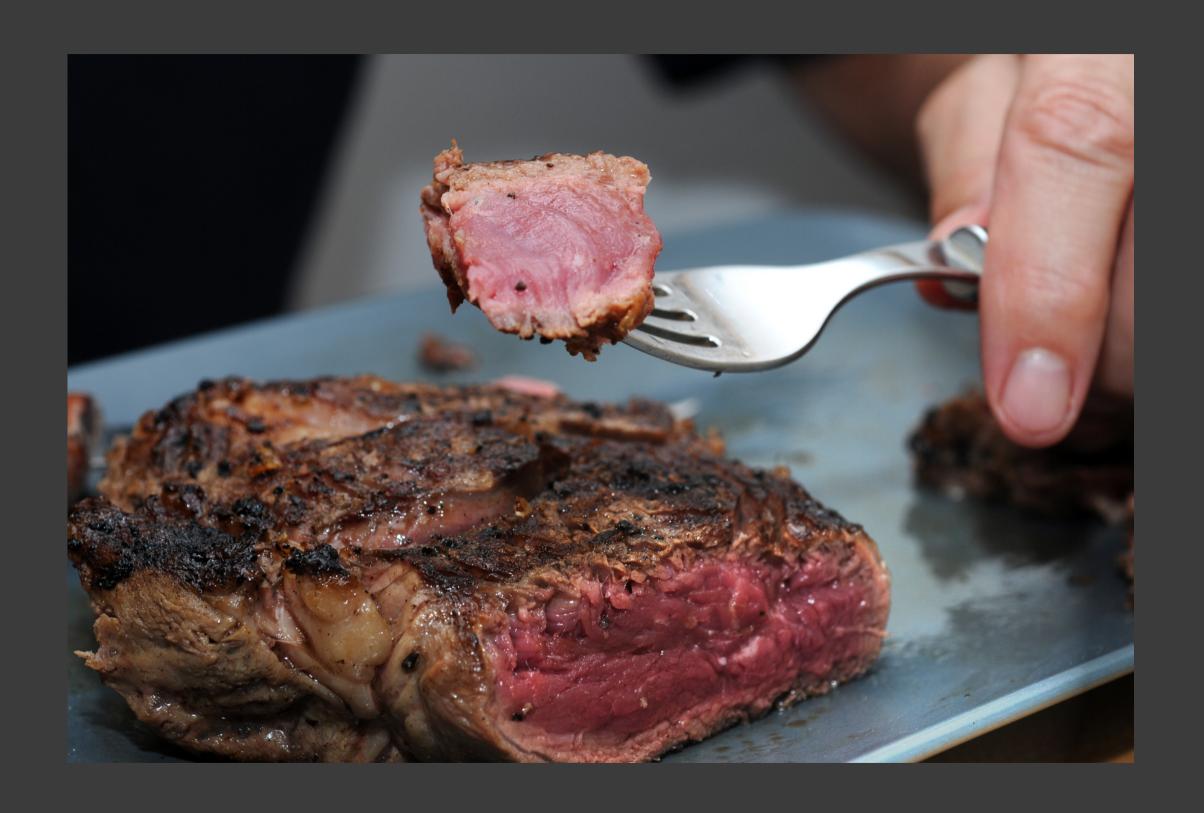
# ANTIMICROBIAL SUSCEPTIBILITY PROFILES: BOVINES CY 2022 Oklahoma Animal Disease Diagnostic Laboratory

NOTE: Data reported as: % susceptible (# isolates tested)

ANTIBIOTIC	Mannheimia haemolytica	Histophilus somni	Pasteurella multocida
Spectinomycin	67% (18)	39% (18)	50% (8)
Tetracycline	27% (11)	43% (14)	50% (6)
Tildipirosin	82% (11)	100% (14)	83% (6)
Tilmicosin	44% (18)	33% (18)	50% (8)
Tulathromycin	50% (18)	50% (18)	63% (8)

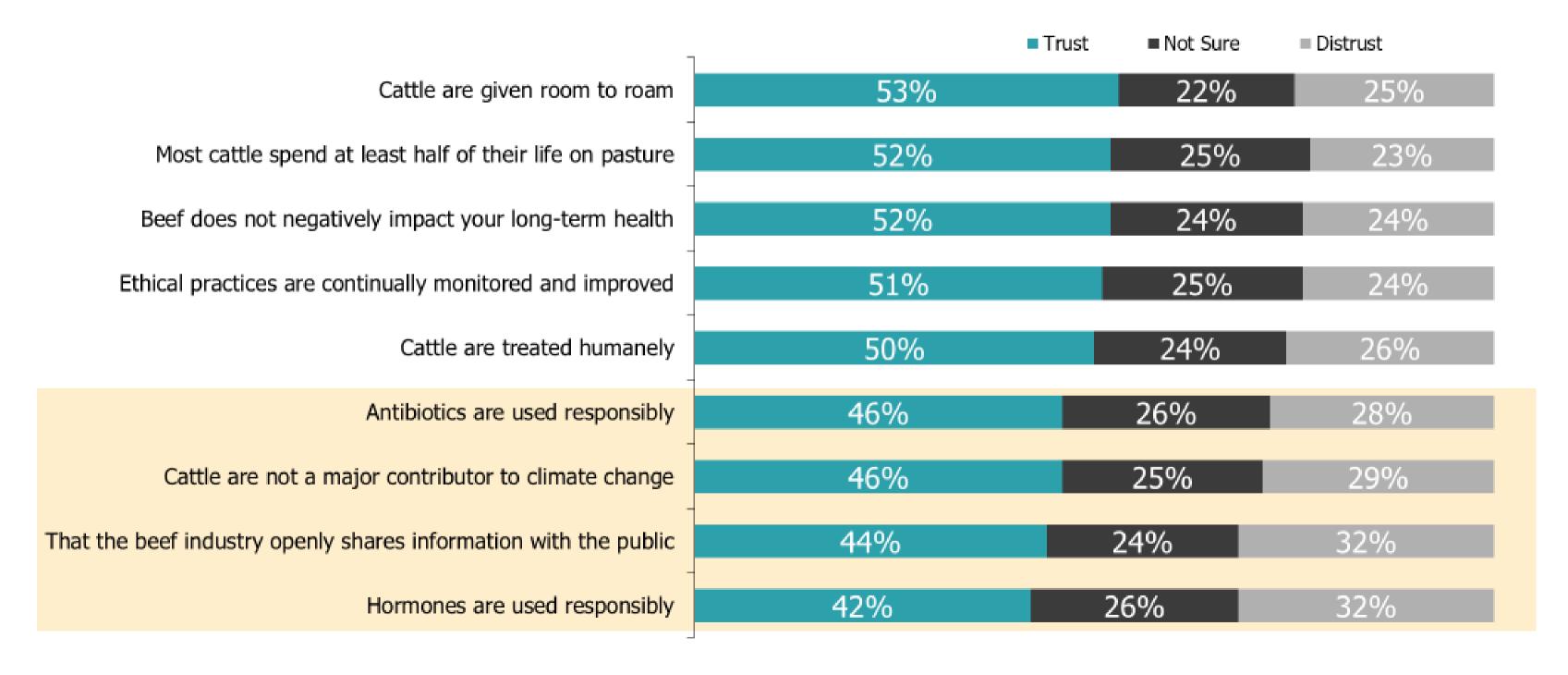
#### Consumers

- Perceptions
- Preferences
- Withdrawal Times



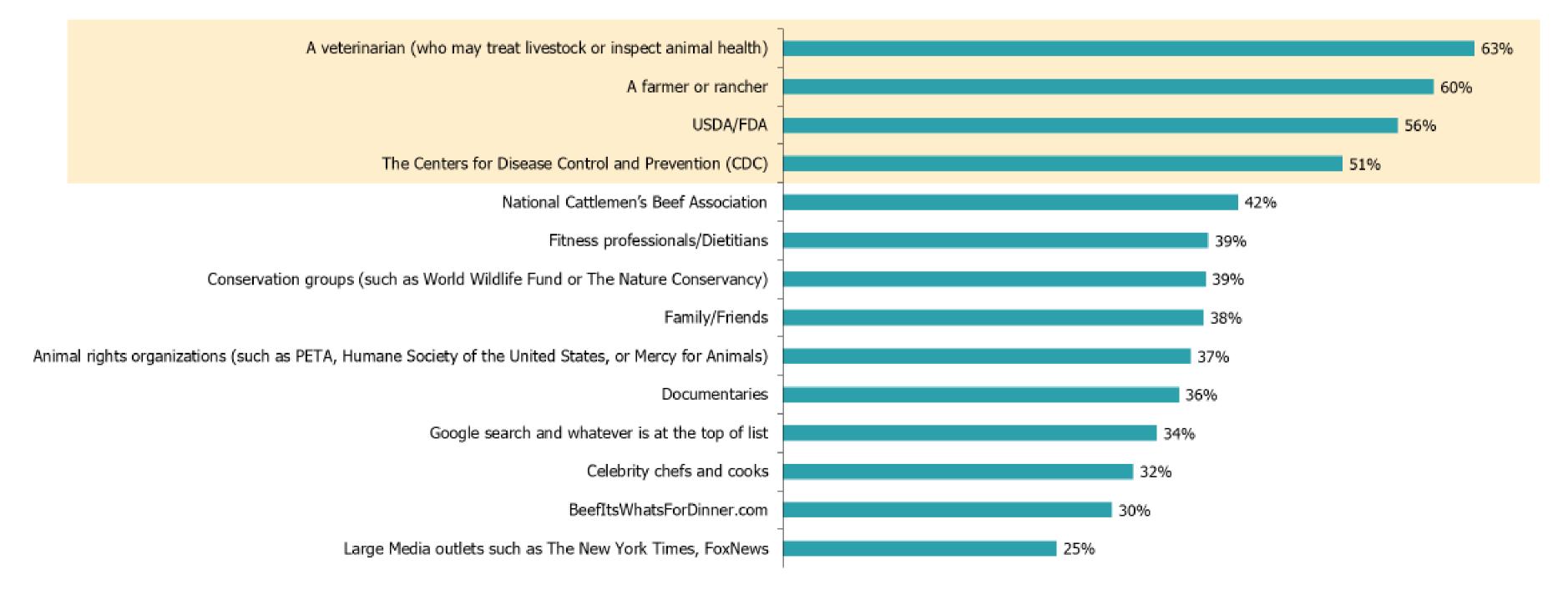
#### Trust Metrics (cont.)

Consumer trust falls below 50% when asked to consider industry antibiotic and hormone usage, contributions to climate change, and sharing information openly.



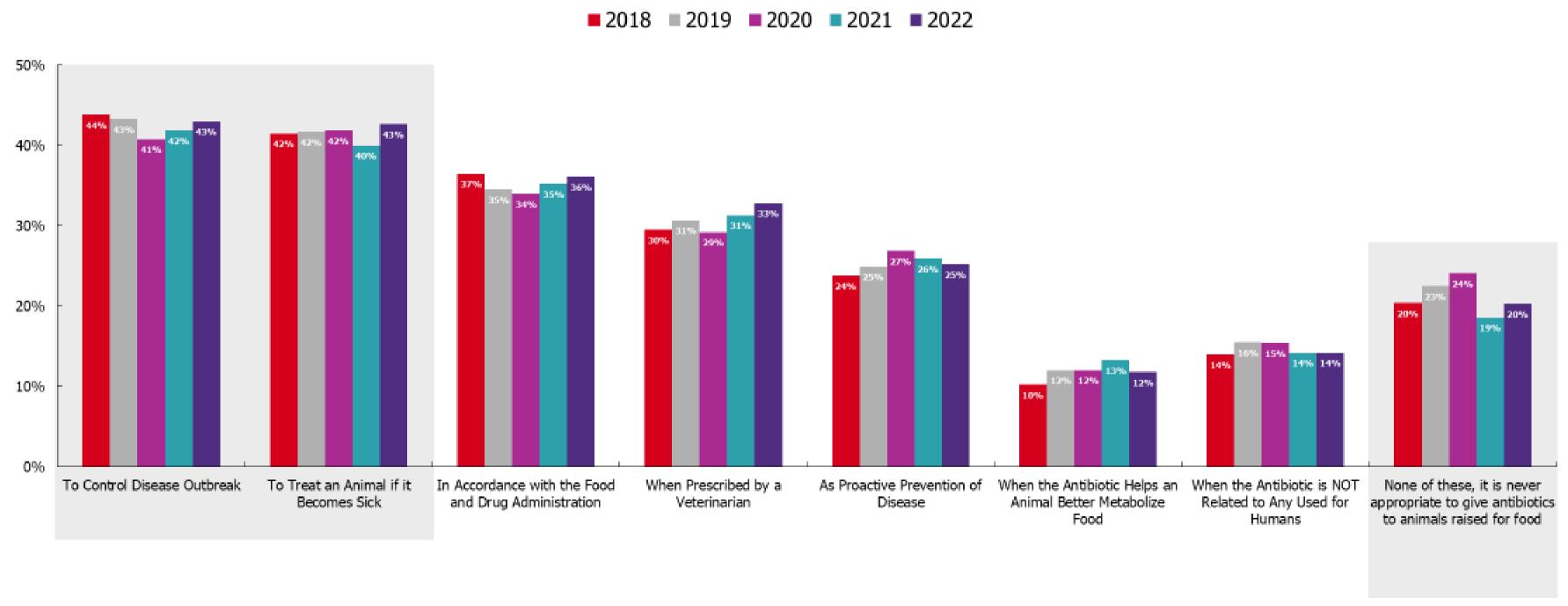
#### Credible Sources about Production Practices

Veterinarians and farmers and ranchers are viewed to be the most credible sources of information when it comes to production practices



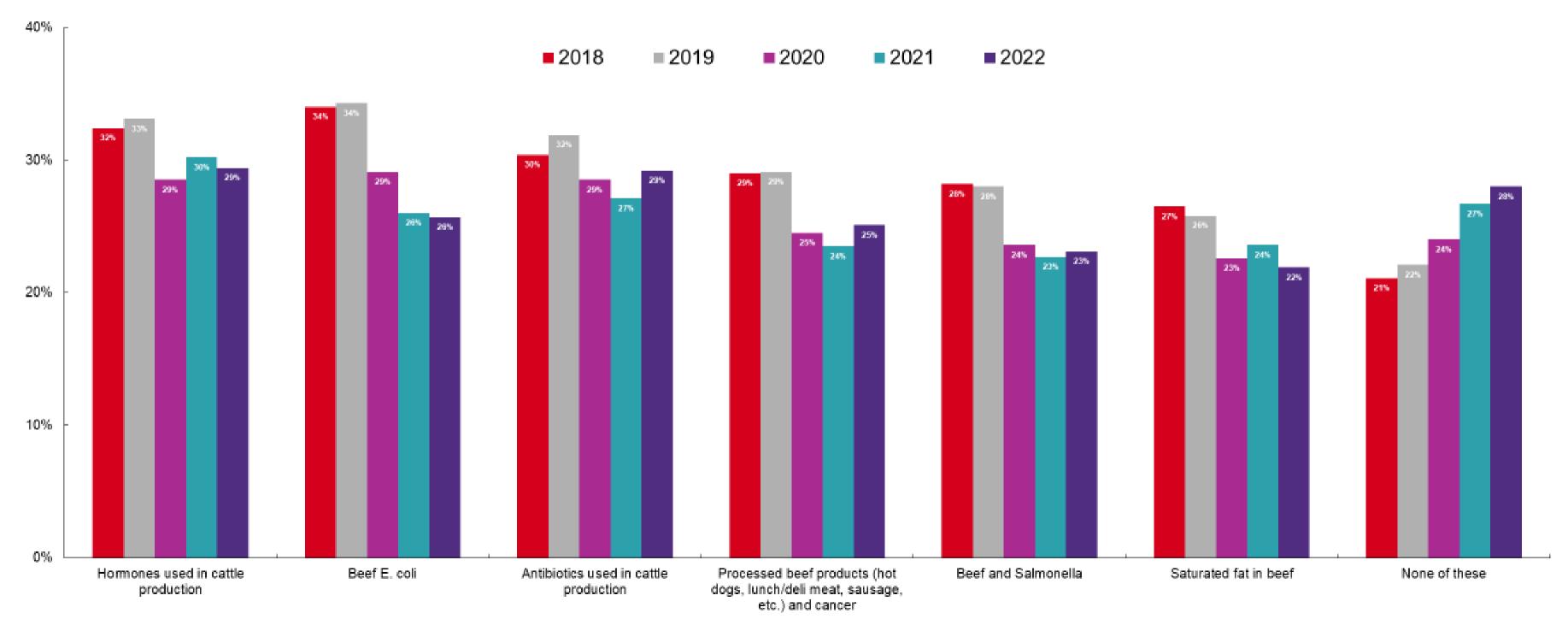
#### Production Practices: Antibiotic Usage

Roughly 20% of consumers indicate they are not ok with antibiotic use for any purpose in animal agriculture. Conversely, around 40% support its use to treat sick animals or control disease outbreak.



#### Considerations in Food Choices – Safety

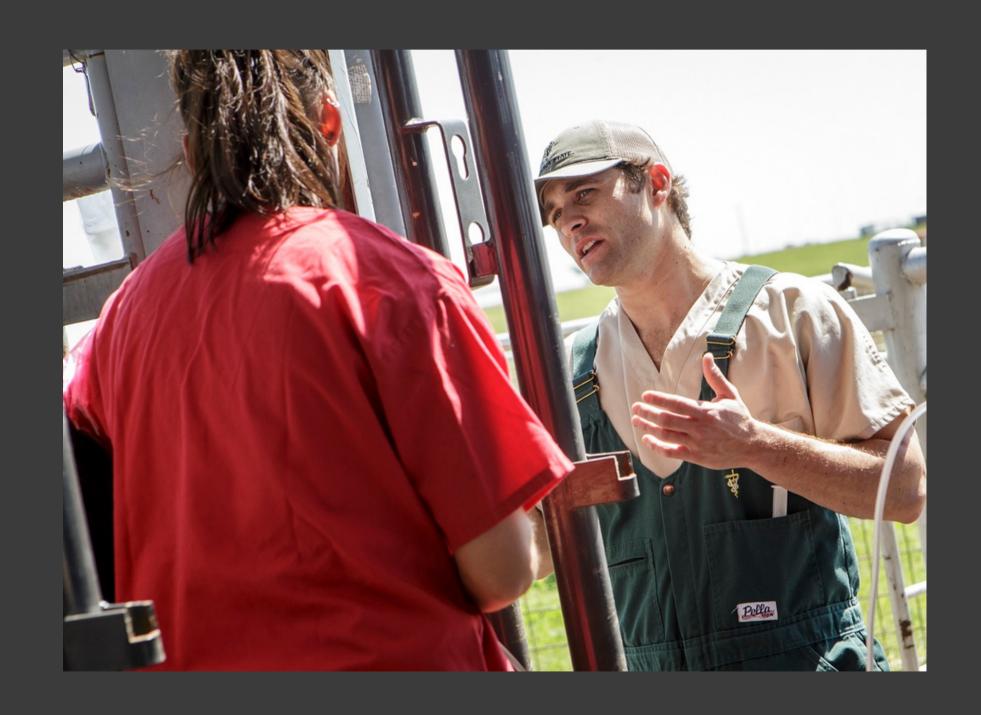
Across the 5 years, use of hormones and antibiotics, E. coli, and processed meats are top of mind when it comes to beef-related food safety and health factors.



Source: Consumer Beef Tracker January – December 2022. SF8: Thinking about issues or health factors that may influence your decisions on the foods you eat, which of the following do you currently pay attention to? Analysis: National Cattlemen's Beef Association, a contractor to The Beef Checkoff.

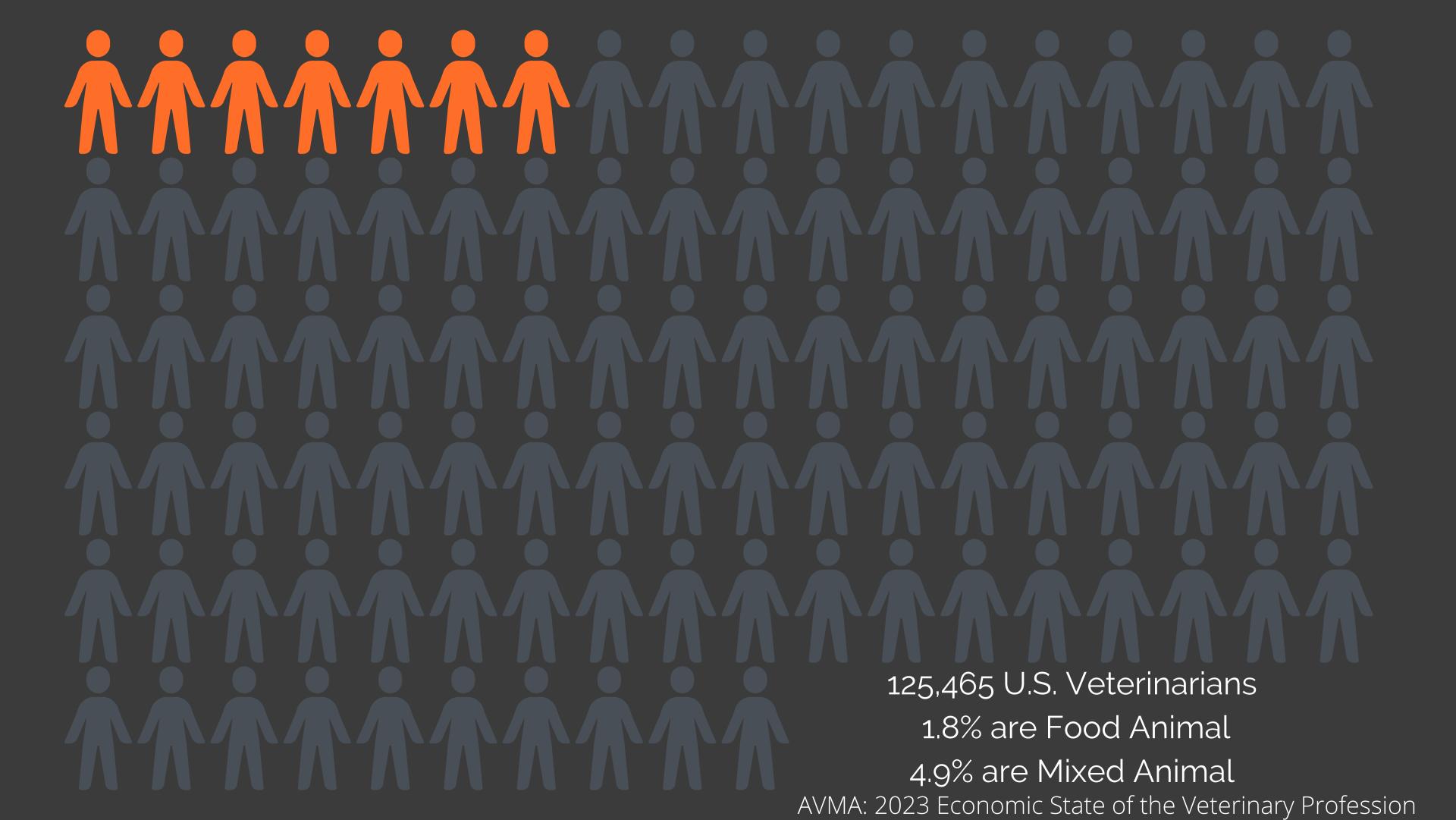
#### How to Prepare

- Establish/Maintain Veterinary-Client-Patient-Relationship
  - "medically appropriate and timely visits"
- Enhance Biosecurity
- Develop Herd Health Plans
- Recordkeeping



#### Veterinary-Client-Patient-Relationship

- DVM has assumed responsibility for making medical judgments about the health of an animal, or animals, and the need for medical treatment. In turn, the client (the owner or other animal caretaker) has agreed to follow your instructions;
- DVM has sufficient knowledge of the animal, or animals, to develop a general or preliminary diagnosis of the medical condition; and
- DVM is readily available for follow-up in case of adverse drug reactions or treatment failure.



## Other Veterinary Prescribing

#### Challenges

- Extra-label Drug Use
- Recordkeeping Requirements
- Prohibited Extra-label Drugs
  - Fluoroquinolones
  - Cephalosporins
  - Others
- Backorders
- Illicit Use



#### Biosecurity Defined

Biosecurity is the development and implementation of management procedures to reduce or prevent unwanted diseases from entering the herd or population as well as limit or prevent the spread of disease within the farming operation.

# Determining the State of Biosecurity knowledge and Implementation among Beef Cattle Producers

- •Survey of Oklahoma Cow-Calf Producers, 2022
- •1400 Responses
- •Drs. Hagerman, Currie-Raper, Whitworth, and Biggs USDA Animal Plant Health Inspection Service
- Veterinary Services: National Animal Disease
- Preparedness and Response Program Grant

#### Recent Biosecurity Research

How familiar are you with this definition of biosecurity?

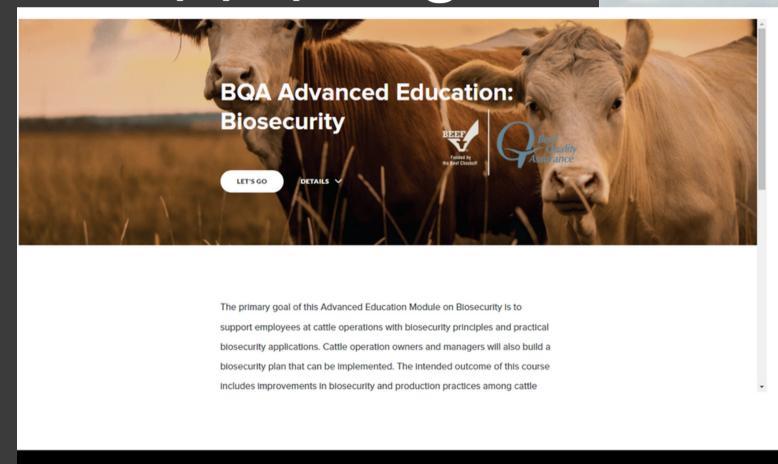
I have never heard of it 31%

13% I understand biosecurity and have implemented principles of biosecurity on my farm/ranch.

Biosecurity Plan Resources

- bqa.org
- OSU Beef Cattle Manual
- securebeefsupply.org





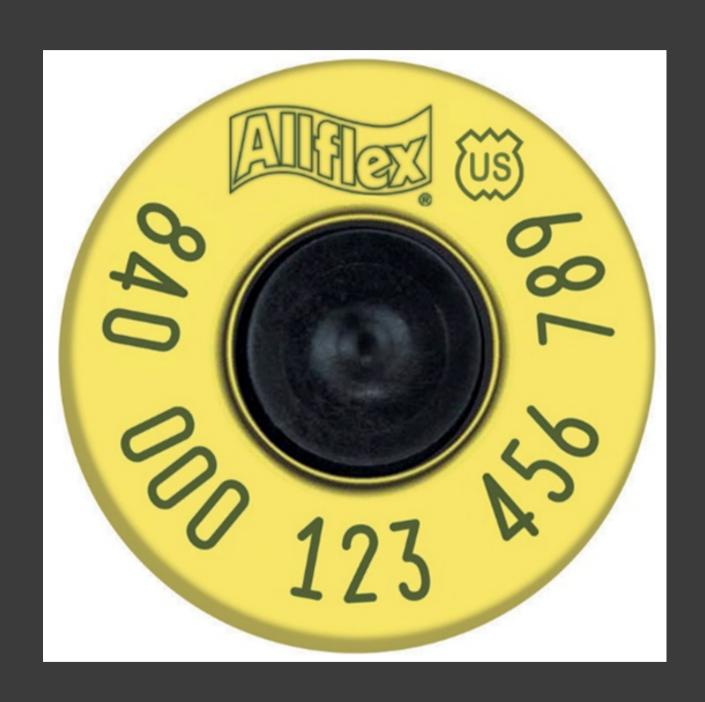


#### Herd Health Plans



- Coordinate with Veterinarian
- Risk Assessment
  - New Introduction Testing
  - Isolation/Quarantine
  - Treatment Plans

## Recordkeeping



- Data Driven Decisions
- Individual Identification
- Herd Protection
- Economics

## Summary

**Understand Changes** 

Do Your Part

Be Prepared

