

Thank you to the **Canadian Animal Health Institute** for their “Speaker Sponsorship” for the following presentation by Mallory Gaines



1

Raising Animals Without Antibiotics

U.S. Producer and Veterinarian
Experience and Opinions



2

Survey Targets

- Veterinarians and producers
 - Beef cattle
 - Dairy cattle
 - Swine
 - Turkey
 - Broiler chickens
- Topics
 - Disease
 - Welfare challenges
 - Experience/beliefs
 - Health and welfare
 - Food safety
 - Cost of production
 - Antibiotic resistance

3

3

Terminology

- Antibiotics- antimicrobial drugs that have specific activity against bacteria, including ionophore antimicrobials
- RWA- Raised without antibiotics, same as “no antibiotics ever” (NAE). No antibiotics in feed, water or as injectable

4

4

Impacts of RWA Production

- Ensuring the safety, health, and overall well-being of animals raised for food is an ethical obligation
- Changes have been made to antibiotic use in animal agriculture
 - Many producers, especially in poultry, have eliminated much of their antibiotic use
 - Shift to raising animals without antibiotics (RWA)
- Demand for RWA products versus affect on animal health and welfare

5

5

Survey of Impacts of RWA Production

- The objective was to survey veterinarians and producers in animal agriculture about their experiences and opinions of raising animals without antibiotics (RWA)
- The survey was designed in Qualtrics and was announced and disseminated through professional organizations and commodity groups
- The survey was open from February 15 through March 23, 2018
- Data were analyzed in Qualtrics, Stata and Excel

6

6

Characteristics of Participants

	Total	Broiler	Turkey	Swine	Beef	Dairy
Role	565	69	23	148	244	81
Practicing Veterinarian	43.9%	31.9%	52.2%	37.6%	43.4%	64.2%
Producer/Grower/Owner	37.9%	26.1%	26.1%	47.3%	44.3%	14.8%
Country of Experience						
United States	95.2%	86.8%	95.8%	96.0%	97.5%	92.6%
International	4.8%	13.2%	4.2%	4.1%	2.5%	7.4%
Experience with RWA						
Current Experience	42.7%	63.8%	95.7%	33.8%	36.1%	45.7%
Previous Experience	13.5%	2.9%	-	20.3%	13.5%	13.6%
No Experience	43.9%	33.3%	4.4%	46.0%	50.4%	40.7%

7

7

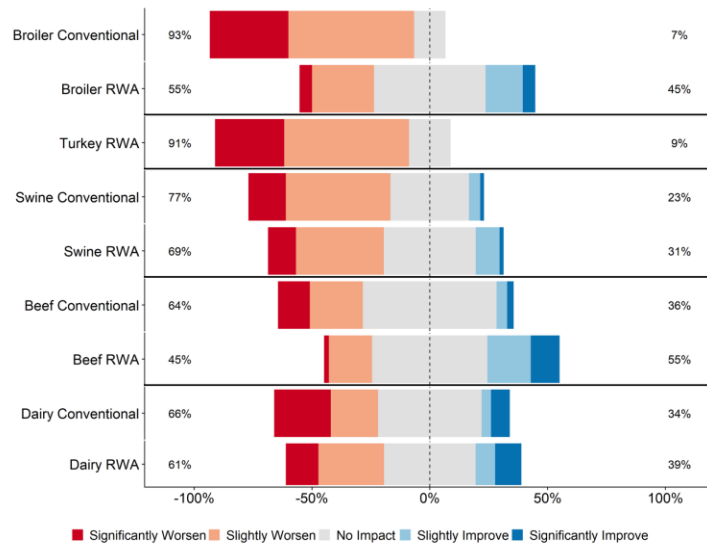
Factors Contributing to Decision to Raise Animals RWA or Conventionally

	Broiler	Turkey	Swine	Beef	Dairy
RWA Respondents	42	22	75	116	44
To decrease antibiotic resistance	26.2%	9.1%	13.3%	19.8%	2.3%
To improve animal health and welfare	35.7%	13.6%	13.3%	15.5%	9.1%
To increase sale price of animals/product	26.2%	36.4%	54.7%	38.8%	9.1%
To gain market entry into a retail program	31.0%	54.6%	40.0%	27.6%	9.1%
To fulfill a client/customer request	83.3%	81.8%	69.3%	65.5%	77.3%
To eliminate the use of medically important antibiotics	19.1%	4.6%	8.0%	9.5%	4.6%
Conventional Respondents	17	1	67	121	31
Not profitable	29.4%	-	28.4%	20.7%	6.5%
Concerned about negative impacts to animal health and welfare	94.1%	-	76.1%	65.3%	64.5%
No market pressure	17.7%	-	31.3%	25.6%	19.4%
Not a sustainable consumer trend	41.2%	-	25.4%	12.4%	9.7%
Food safety concerns	17.7%	-	28.4%	8.3%	19.4%
Already raising animals in a responsible use program	58.8%	-	73.1%	56.2%	71.0%

8

8

Food Safety – What Respondent Believes

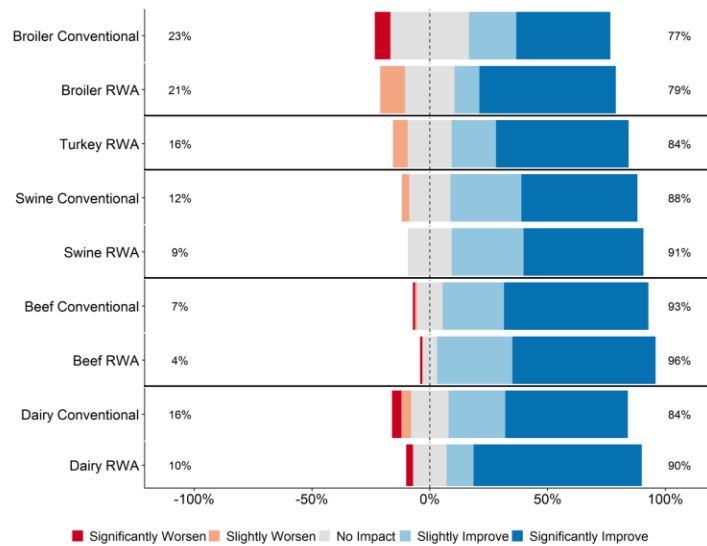


How do you think raised without antibiotics production impacts food safety?

9

9

Food Safety – Perception of Customer Beliefs

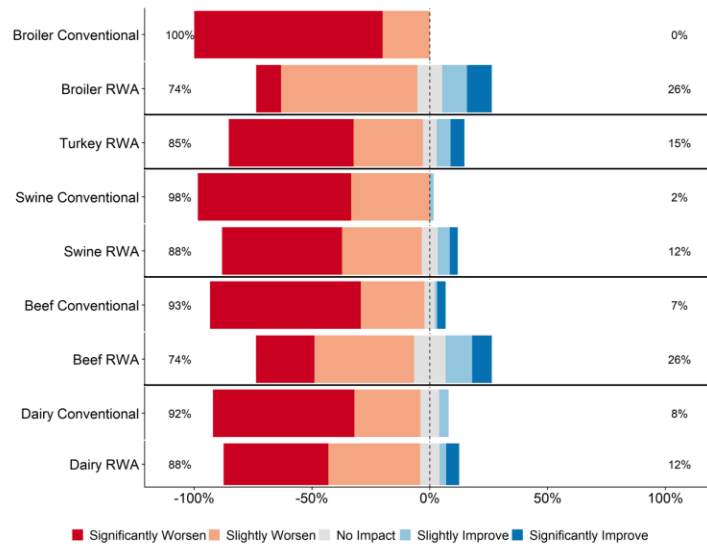


In your opinion, how do retailers/restaurants/food services think raised without antibiotics production impacts food safety?

10

10

Health & Welfare – What Respondent Believes

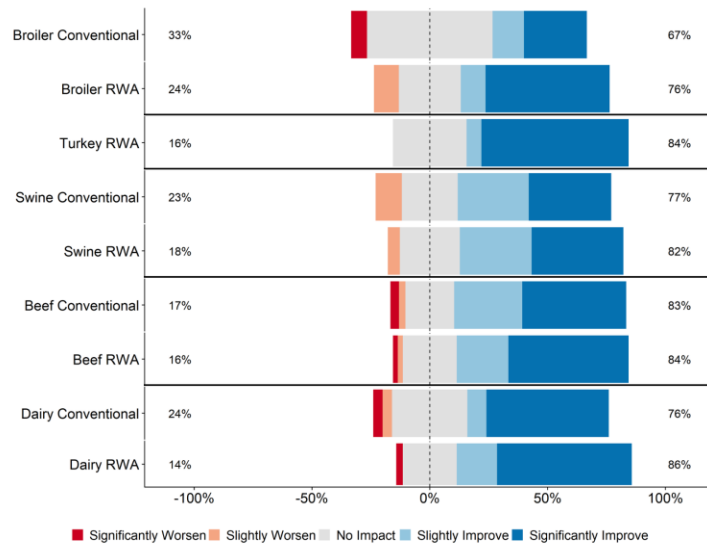


How do you think raised without antibiotics production impacts animal health and welfare?

11

11

Health & Welfare – Perception of Customer Beliefs

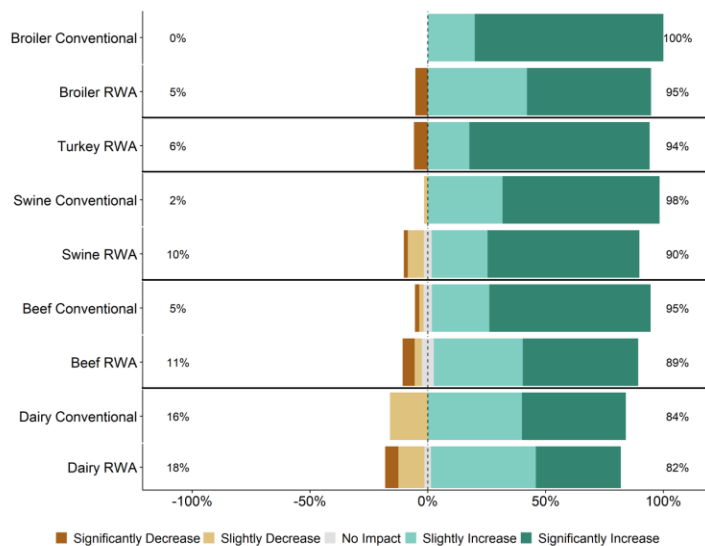


In your opinion, how do retailers/restaurants/food services think raised without antibiotics production impacts animal health and welfare?

12

12

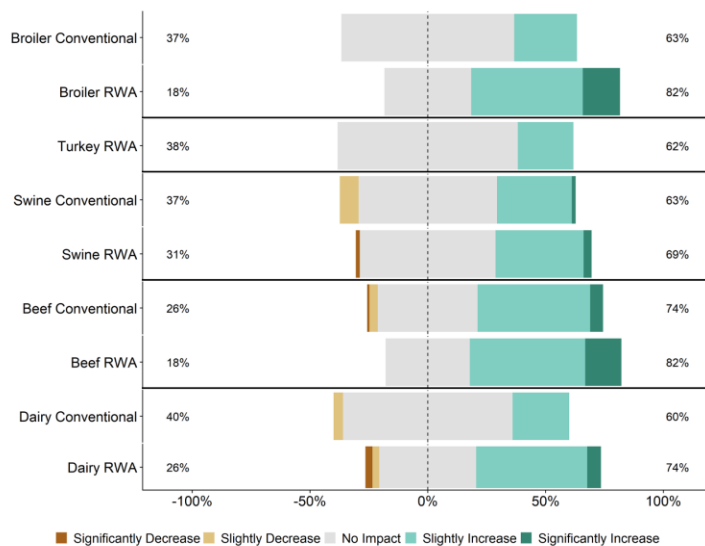
RWA Impacts on Cost



13

13

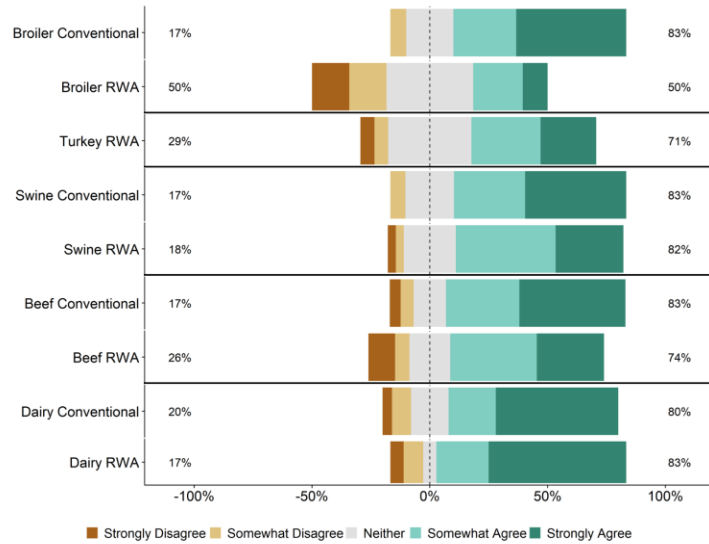
RWA Impacts on Demand



14

14

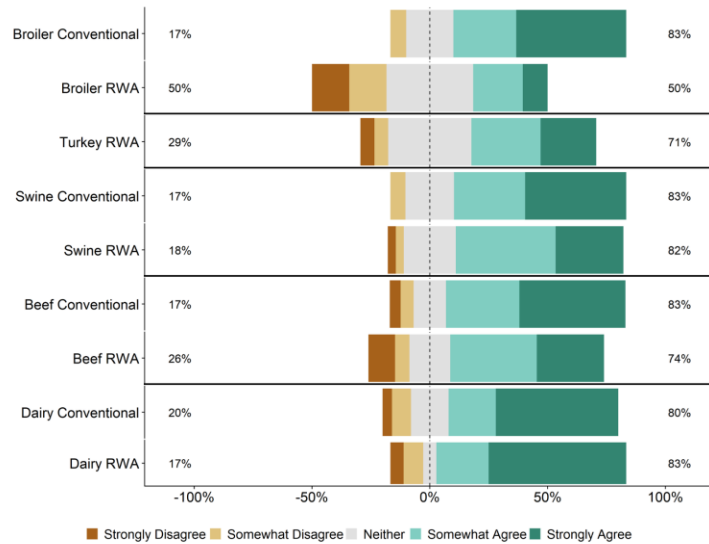
There are times that maintaining an RWA label has priority over flock/herd health and welfare



15

15

Respondent Opinion on the Need for More RWA Auditing/Assessment



16

16

Authors

Randall Singer

- Department of Veterinary and Biomedical Sciences, University of Minnesota and Mindwalk Consulting, LLC.

Leah Porter

- Mindwalk Consulting, LLC.

Daniel Thomson

- Department of Diagnostic Medicine and Pathobiology, Kansas State University

Mallory Gage

- Gage Group Consulting, LLC.

Amanda Beaudoin

- Department of Veterinary and Biomedical Sciences, University of Minnesota

Jennifer Wishnie

- Department of Animal Science, California Polytechnic University

17

17

Questions?

Mallory Gaines (Gage)

Mgaines@afia.org

18

18