



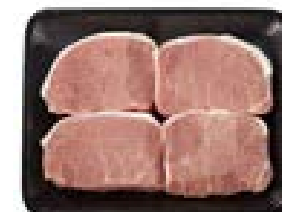
# Insights from the Meat Demand Monitor Project

Glynn Tonsor

December 1, 2023



<https://www.agmanager.info/livestock-meat/meat-demand/monthly-meat-demand-monitor-survey-data>



# ***Broad MDM Overview***

## **1-STOP LOCATION FOR U.S. MEAT DEMAND TRENDS & INFORMATION**

- Monthly surveys & experiments > 2,000 U.S. residents
  - ❖ >1,000 food service, restaurant focused
  - ❖ >1,000 retail, grocery-store focused
- Systematic economic modeling of consumer meat demand, preference, and behavior

## **FUNDING PARTNERSHIP & TIMING**

- Fully launched Feb. 2020
  - Jointly funded by Beef & Pork Checkoffs
- Beef checkoff's initial support (AR #2012)
  - ❖ 3-years, ended Sept. 2022
- Currently funded under (AR #2312-R / FY23)
  - Oct. 1, 2022 – Sept. 30, 2025



Funded by the Beef Checkoff.

# All MDM outputs, procedures, & data fully available on KSU's AgManager.info website

Monthly Meat Demand Monitor, Methods, and Supporting Information

Home / Livestock & Meat / Meat Demand / Monthly Meat Demand Monitor [Survey Data]

KANSAS STATE UNIVERSITY Agricultural Economics

Sign up for weekly email updates. [K-State College of Agriculture Links](#)

Agronomy [Animal Science](#) [Kansas Ag Mediation Service \(KAMS\)](#) [Extension Agent Link](#)

Livestock & Meat

Projected Feeder Cattle Prices

Cattle Finishing Returns

Meat Demand

Meat Demand Research Studies

Monthly Domestic Meat Demand Indices [USDA/BLS Data]

Monthly Export Meat Demand Indices [USDA/BLS Data]

Monthly Meat Demand Monitor [Survey Data]

Monthly Meat Demand Monitor (Prior Years)




Production Economics

Marketing Charts

CLPER Newsletter

Monthly Meat Demand Monitor [Survey Data]

The Meat Demand Monitor (MDM) project is funded in-part by the beef checkoff and the pork checkoff. Monthly reports and supporting documentation are available here.

Monthly Meat Demand Monitor

Title	Author	Date	Downloads
Meat Demand Monitor - January 2022	Tonsor	January 28, 2022	<a href="#">Downloads</a>
Multi-Month Summary Report: July-December 2021	Tonsor Lusk	January 13, 2022	<a href="#">Downloads</a>
Meat Demand Monitor - December 2021	Tonsor	January 6, 2022	<a href="#">Downloads</a>
Meat Demand Monitor - November 2021	Tonsor	December 3, 2021	<a href="#">Downloads</a>

Methods and Supporting Information

Title	Author	Date	Downloads
2022 Raw Data - MDM For 2021 data, click <a href="#">HERE</a> . For 2020 data, click <a href="#">HERE</a> .	Tonsor	February 2, 2022	<a href="#">Downloads</a>
Monthly Survey - January 2022	Tonsor	January 31, 2022	<a href="#">Downloads</a>

- ✓ SHORT MONTHLY REPORTS & APPROVED TWEETS/LINKEDIN POSTS (#MDM)
- ✓ RAW DATA
- ✓ SURVEY INSTRUMENTS & UNDERLYING PROCEDURE DOCS
- ✓ ACADEMIC PAPERS USING MDM
- ✓ EXAMPLE LINKS TO MEDIA USE



Funded by the Beef Checkoff.

# ***Broad Activity Flow***

- Ongoing data collection (~1<sup>st</sup> 25 days of each month)
  - KSU's Qualtrics & Dynata/Samplify
- Monthly base analysis
  - USDA approval on 4-page report & Tweets
  - AoA summary & NHF summary
- Periodic USFR coverage & 1-off Assessments

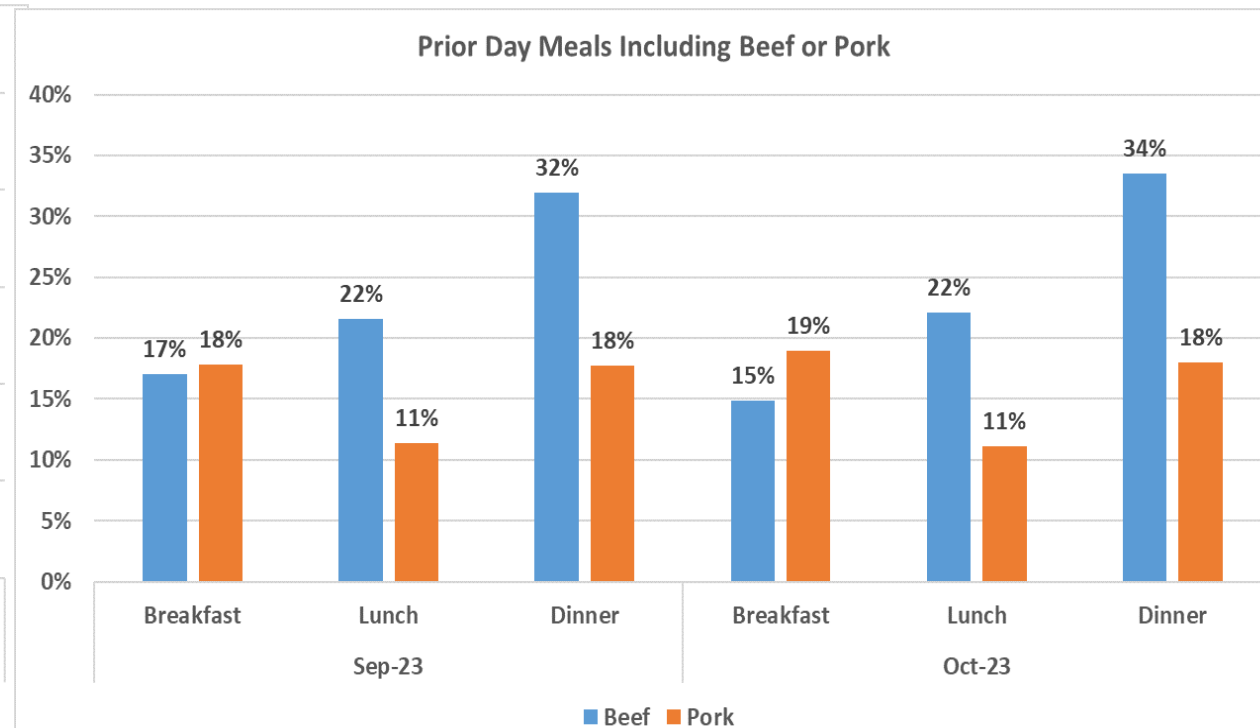
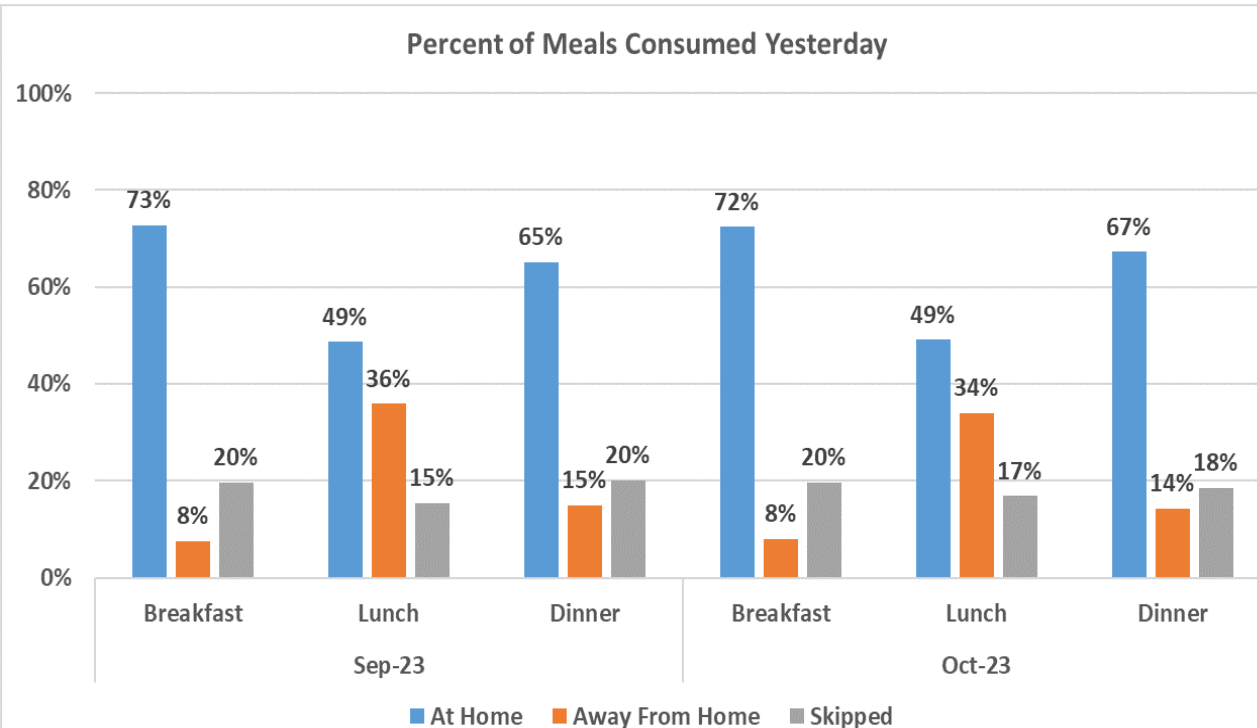


# *Broad Overview of Survey Sections*

- Prior Day Recall
- Protein Values
- Choice Experiment
- Consumer Knowledge
- Ad Hoc Section
- Socio-Economic Questions

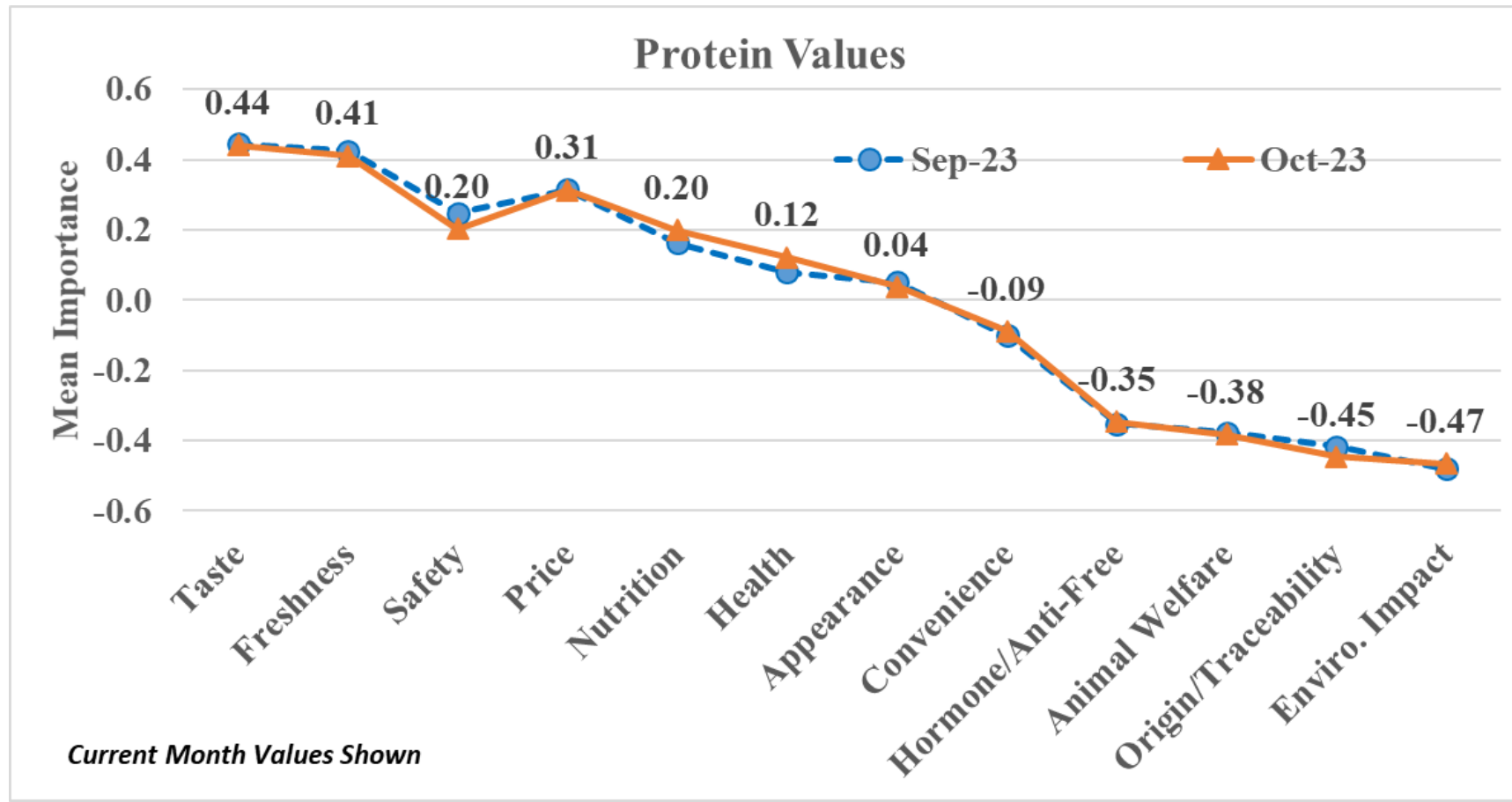
# *Broad Overview of Survey Sections*

- Prior Day Recall
  - Breakfast/Lunch/Dinner
    - Location & Protein Source
      - Protein-Species (dinner: ribeye, at-home, bought from Grocery)



# *Broad Overview of Survey Sections*

- Protein Values
  - Most/Least important factors in protein purchasing decision





















# Broad Overview of Survey Sections

- Choice Experiment: Design
  - ½ Retail & ½ Dinner-Meal, Food Service
  - 9 questions each (27 in complete design for each market channel)

Which of the following would you purchase?

								If these were the only options, I would buy something else.
Ribeye Steak \$16.99/lb	Ground Beef \$4.49/lb	Pork Chop \$7.49/lb	Bacon \$7.99/lb	Chicken Breast \$1.49/lb	Plant-Based Patty \$11.99/lb	Shrimp \$8.49/lb	Beans and Rice \$2.99/lb	
I would choose:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Which of the following would you purchase?

								If these were the only options, I would buy something else.
Ribeye Steak \$18.99/meal	Beef Hamburger \$11.99/meal	Pork Chop \$14.49/meal	Baby Back Ribs \$17.99/meal	Chicken Breast \$12.99/meal	Plant-based Patty \$14.99/meal	Shrimp \$13.49/meal	Salmon \$16.99/meal	
I would choose:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



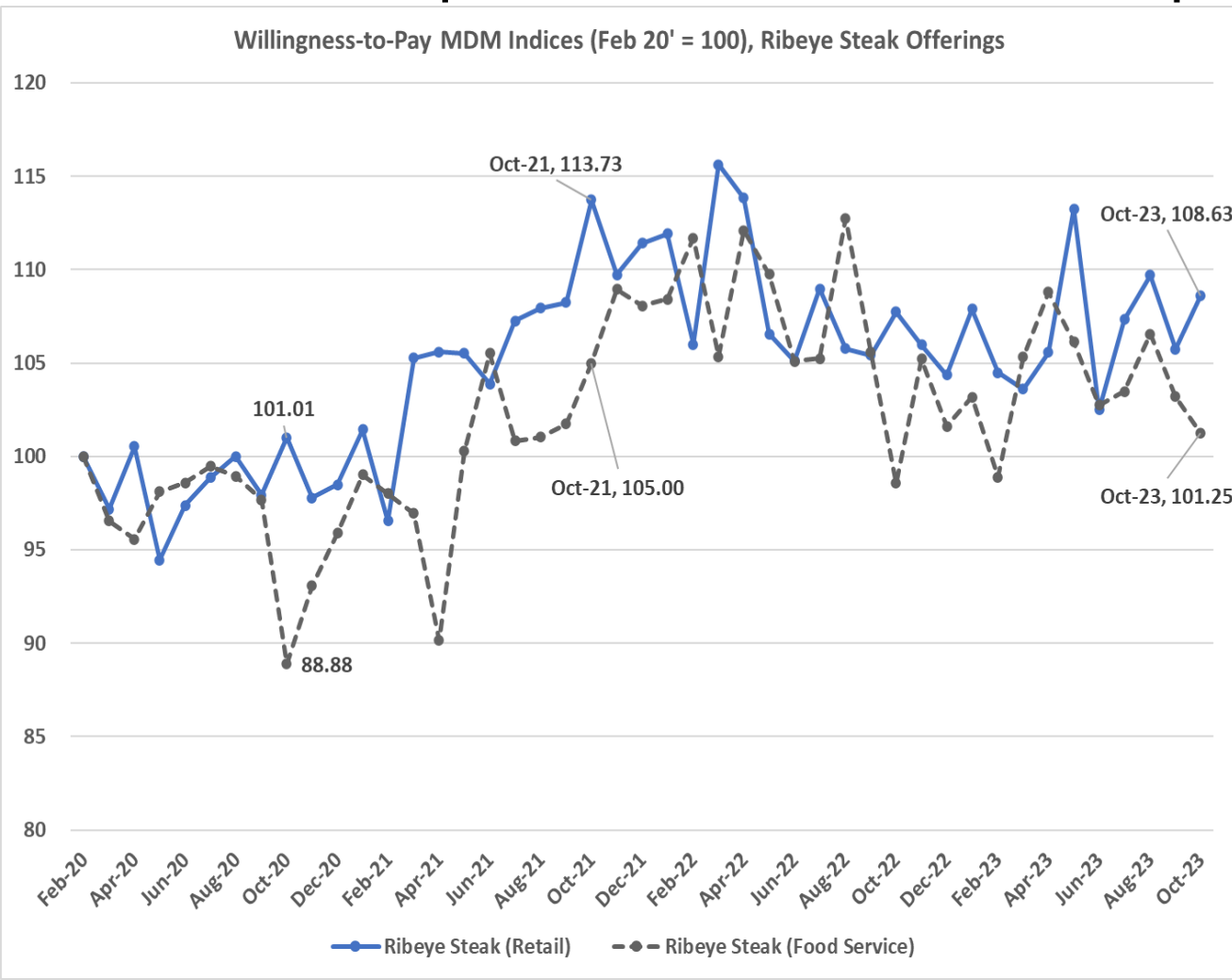
# Broad Overview of Survey Sections

## Choice Experiment: Mean WTP Estimates (Nominal \$/lb or \$/meal)

RETAIL		Ribeye Steak	Ground Beef	Pork Chop	Bacon	Chicken Breast	Plant-Based Patty	Shrimp	Beans and Rice	Something Else
Sep-23	WTP (\$/lb)	\$ 17.29	\$ 8.88	\$ 7.38	\$ 6.02	\$ 8.60	\$ 8.23	\$ 9.17	\$ 3.13	
	Market Share	7%	25%	14%	8%	26%	2%	4%	7%	7%
Oct-23	WTP (\$/lb)	\$ 17.76	\$ 9.07	\$ 7.75	\$ 5.73	\$ 8.76	\$ 8.21	\$ 9.22	\$ 3.49	
	Market Share	8%	24%	14%	7%	26%	2%	4%	8%	7%
FOOD SERVICE		Ribeye Steak	Beef Hamburger	Pork Chop	Baby Back Ribs	Chicken Breast	Plant-Based Patty	Shrimp	Salmon	Something Else
Sep-23	WTP (\$/lb)	\$ 26.62	\$ 19.49	\$14.54	\$ 17.53	\$ 17.21	\$ 12.19	\$ 17.04	\$18.24	
	Market Share	16%	25%	4%	9%	14%	4%	12%	8%	7%
Oct-23	WTP (\$/lb)	\$ 26.11	\$ 20.49	\$16.32	\$ 18.39	\$ 17.83	\$ 12.71	\$ 18.06	\$18.88	
	Market Share	13%	28%	5%	10%	14%	4%	13%	8%	6%

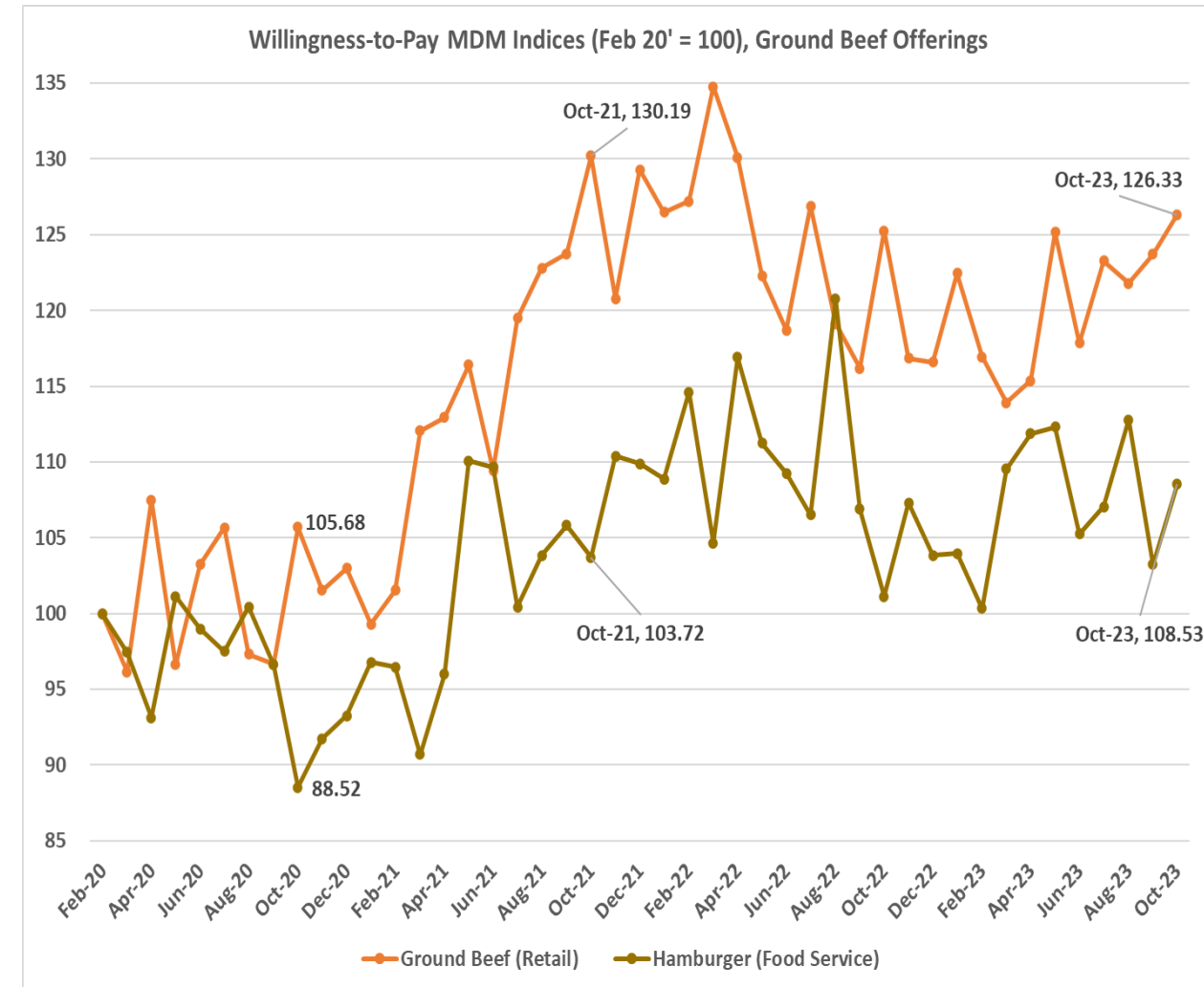
# *Broad Overview of Survey Sections*

## ■ Choice Experiment: Trend Examples (Nominal \$/lb or \$/meal)



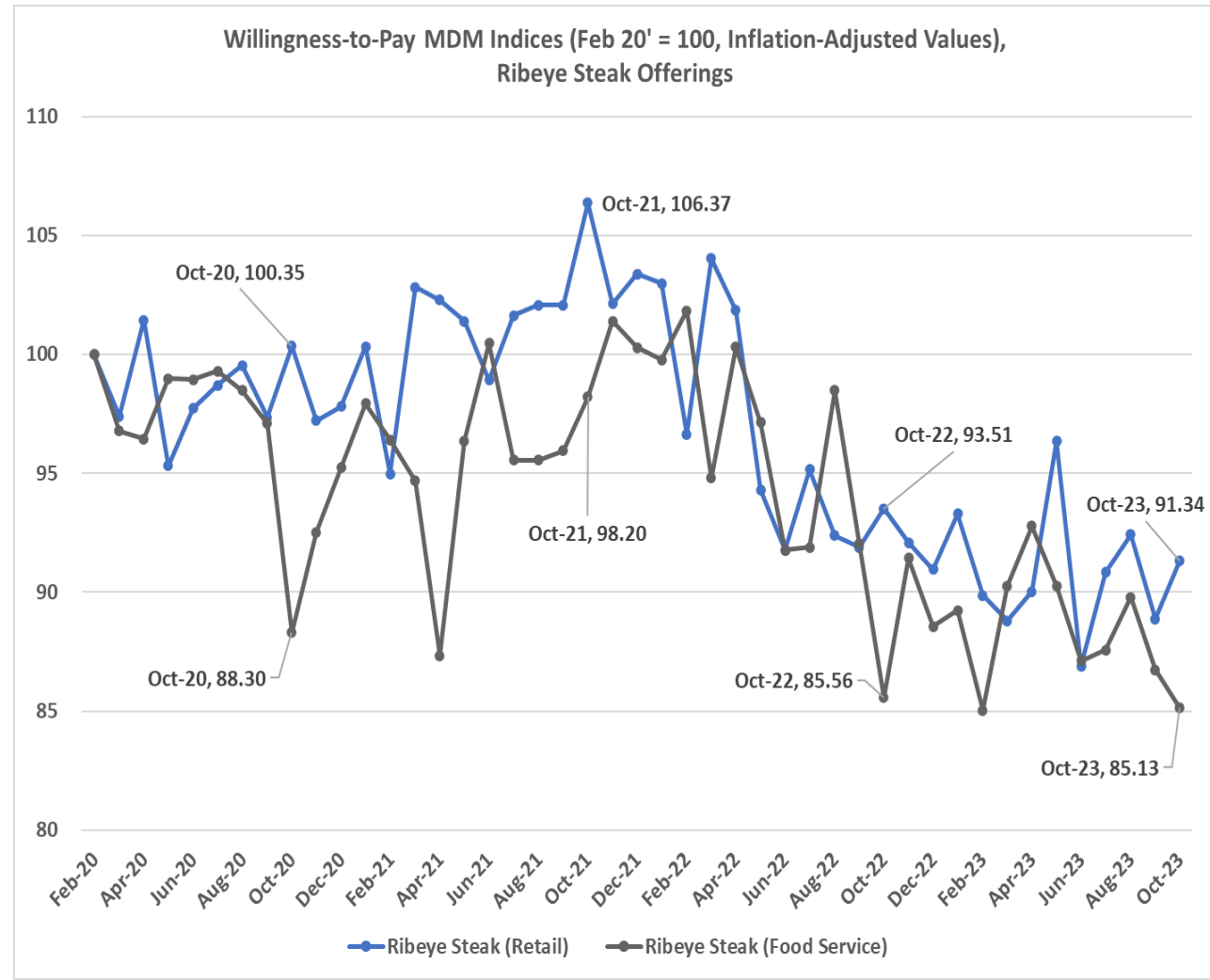
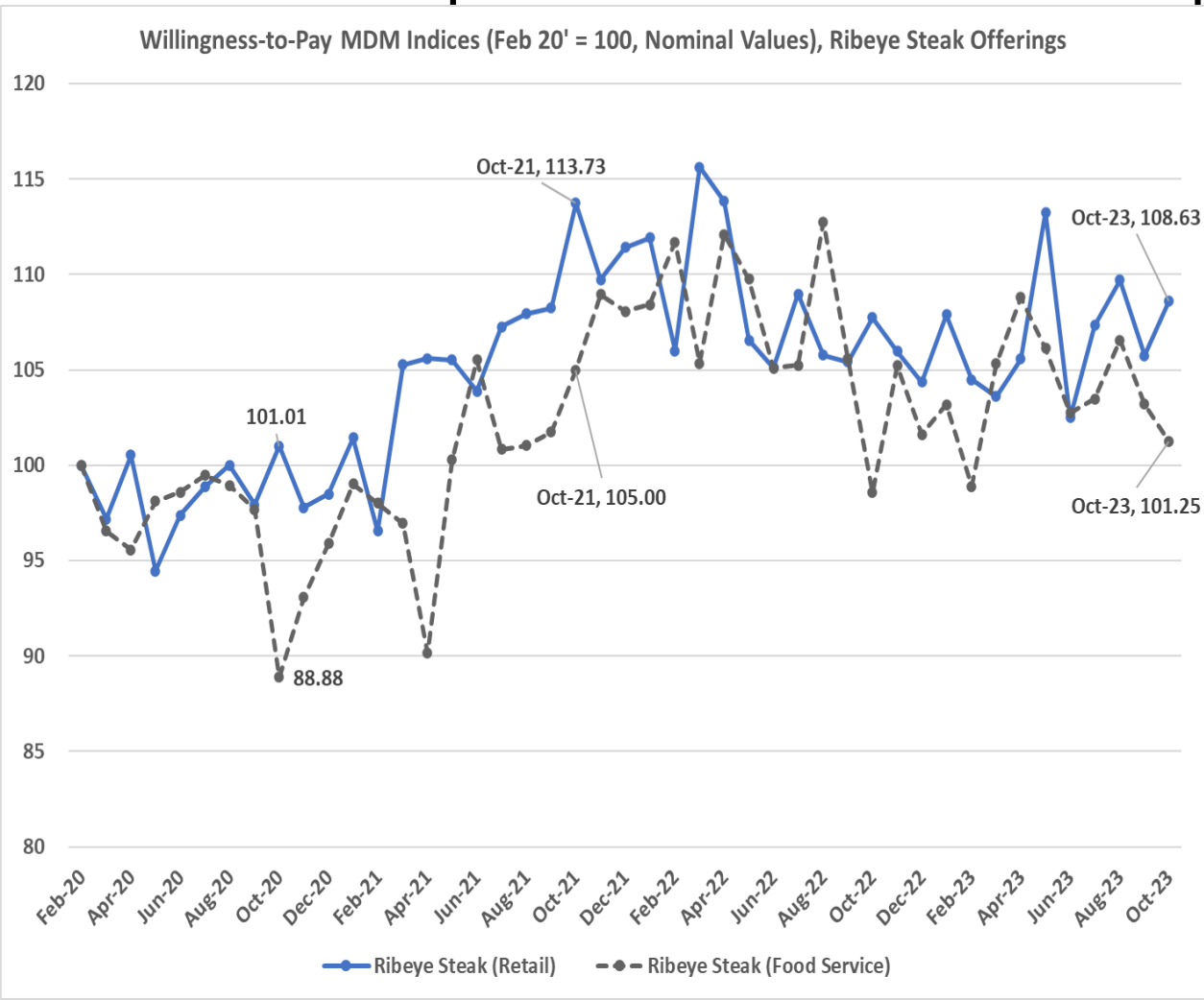
# *Broad Overview of Survey Sections*

## ■ Choice Experiment: Trend Examples (Nominal \$/lb or \$/meal)



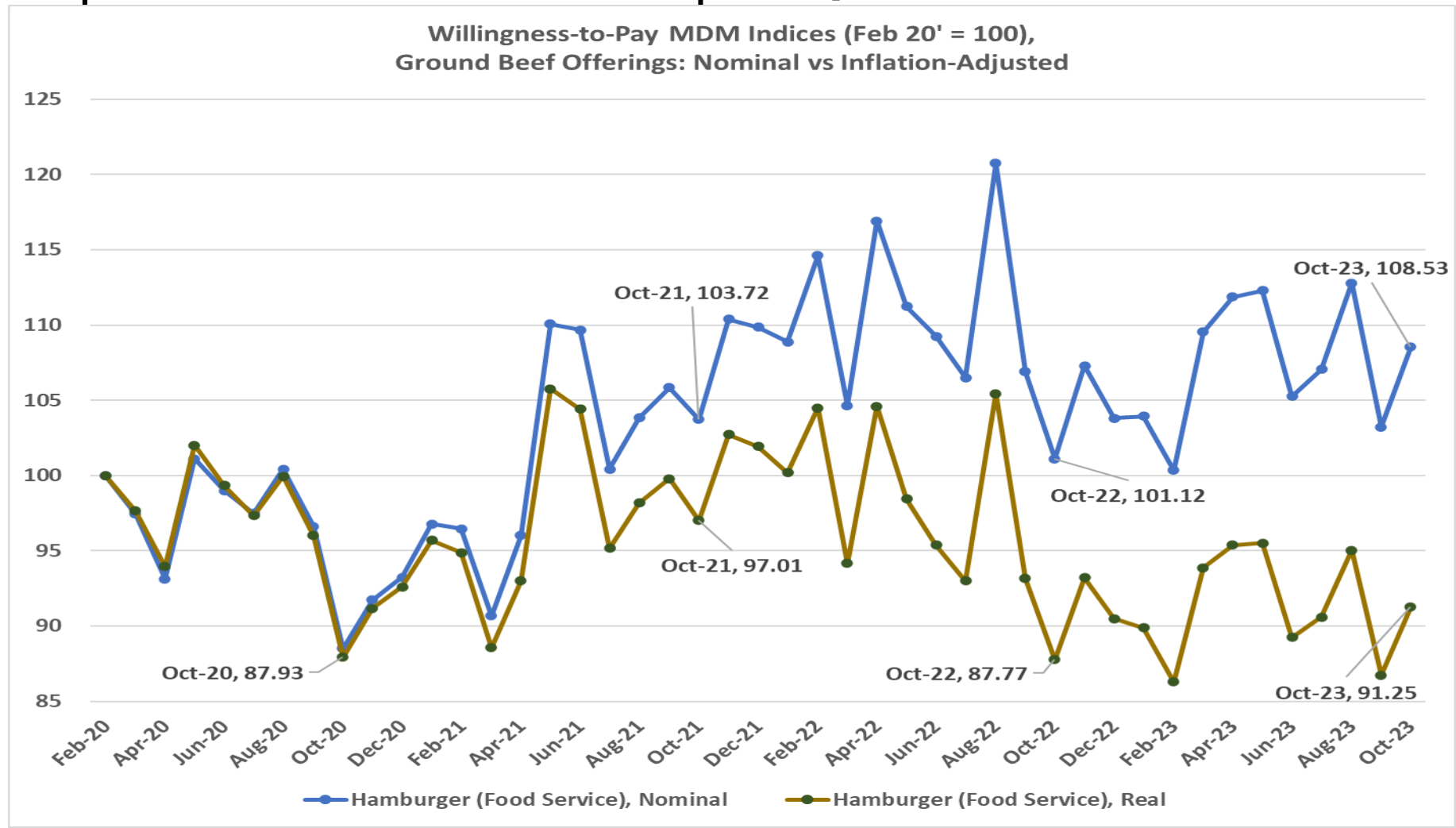
# Broad Overview of Survey Sections

## Choice Experiment: Trend Examples (Nominal vs Real matters!)



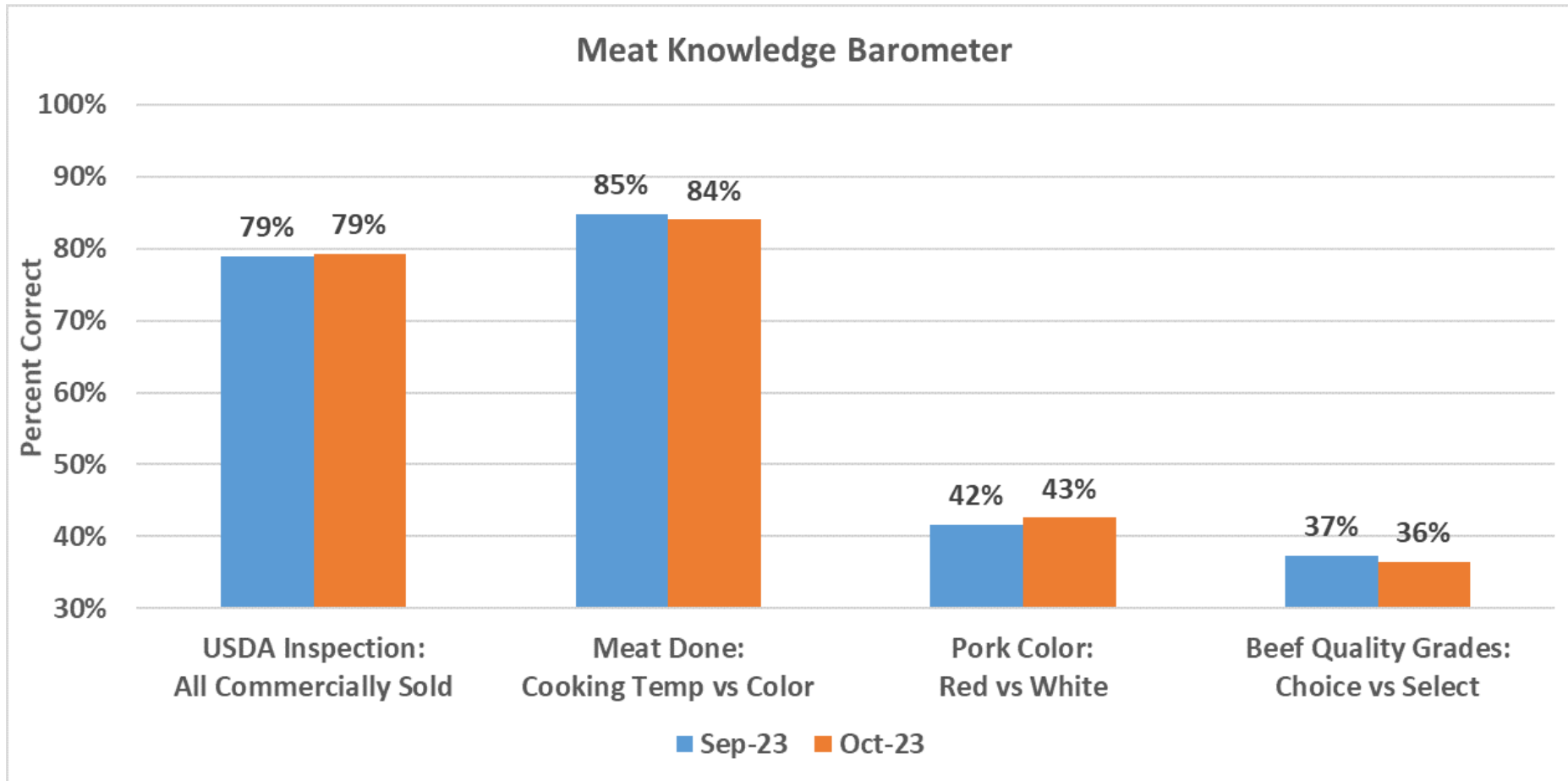
# *Broad Overview of Survey Sections*

## ■ Choice Experiment: Trend Examples (Nominal vs Real matters!)



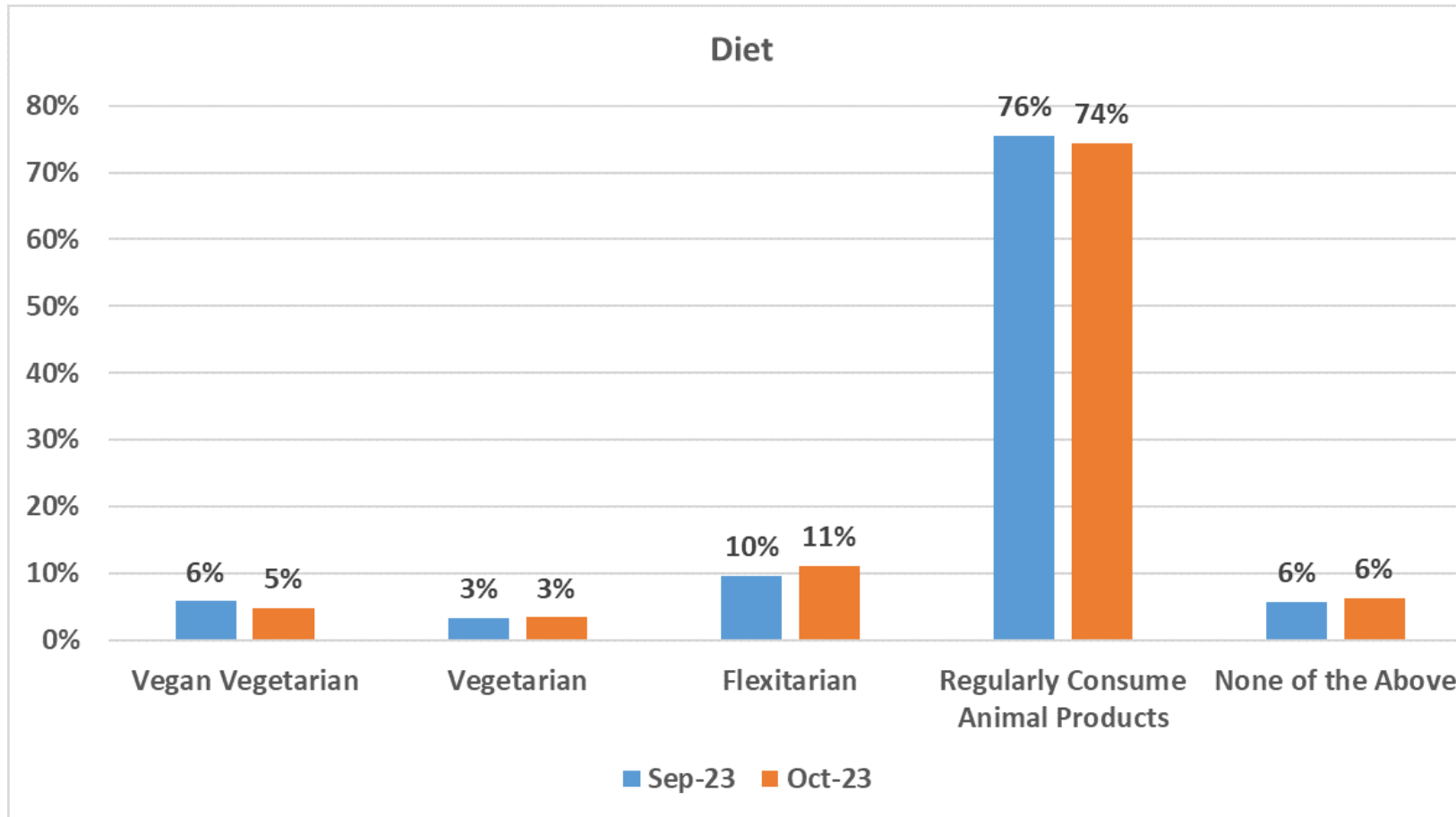
# *Broad Overview of Survey Sections*

## ■ Consumer Knowledge



# *Broad Overview of Survey Sections*

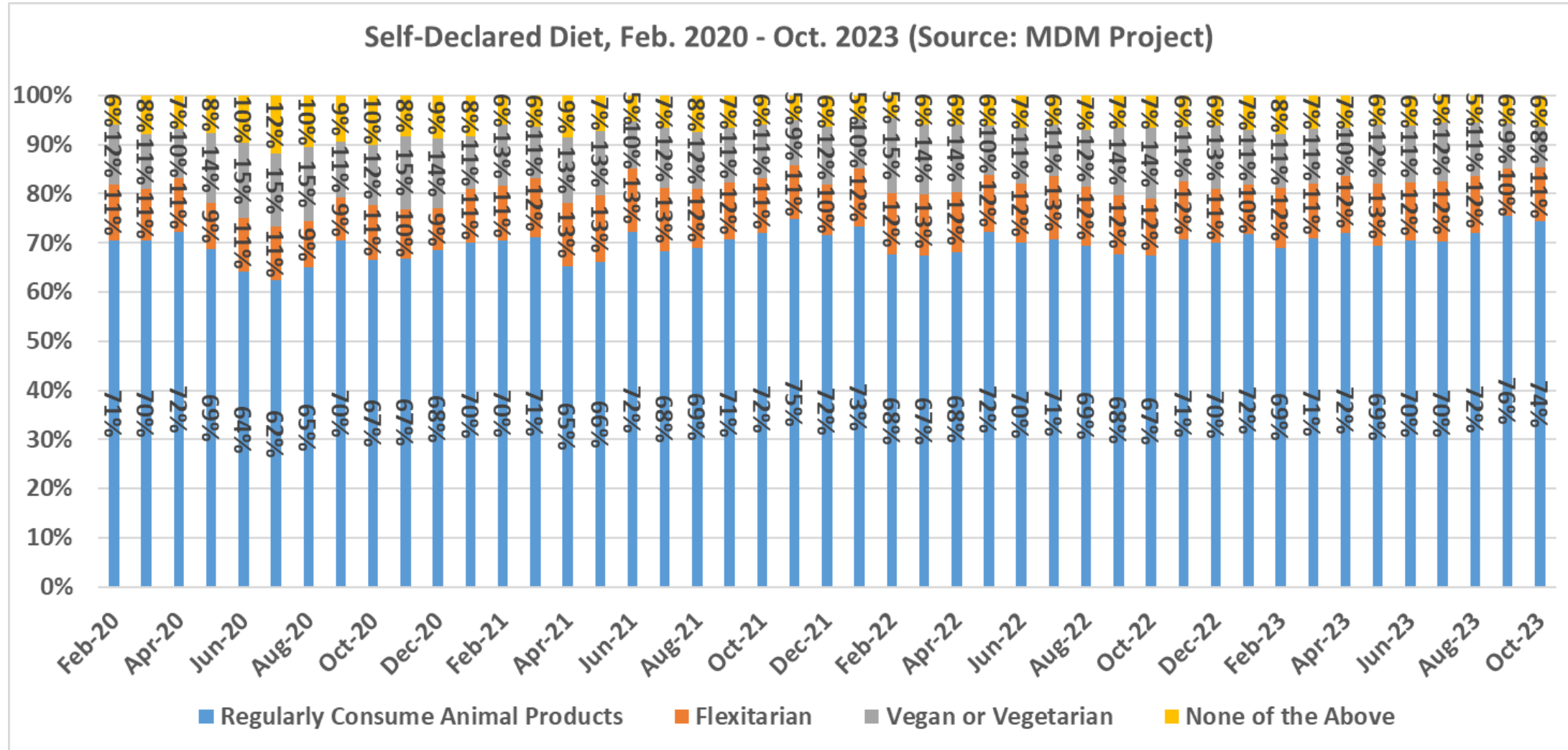
## ■ Socio-Economic Questions





# Broad Overview of Survey Sections

## ■ Socio-Economic Questions



# Media Partnering



- ✓ AOA (MIKE PEARSON/JESSE ALLEN HOST)
  - ✓ GT monthly interview w/ latest MDM info
  - ✓ 1 million live listeners each interview;
    - ✓ + 200k via Sirius Rural Radio
  - ✓ 5,500 AoA podcast downloads each month
- ✓ USFR (TYNE MORGAN HOST)
  - ✓ 500,000 listeners/video viewers each interview
  - ✓ 5-10,000 on each AgDay website post
- ✓ #MDM TWEETS (@TONSORGLYNN)
  - ✓ Jan-Sep 23': > 30,000 impressions
- ✓ AGMANAGER.INFO
  - ✓ >20,000 page views to-date of MDM page

# ***EXAMPLES OF HIGH-IMPACT***

## **ACADEMIC ARTICLES, THESES, & DISSERTATIONS**

- 7 peer-reviewed articles so far
- 1 KSU M.S. Thesis (Taylor, 2021) & 1 KSU Ph.D Dissertation (Anderson, 2023)
- MDM data currently used in 1 PhD dissertation and 2 journal articles that are in review



# MDM & Related Efforts Continue to Generate Research-Based Demand Insights...

Meat Science 190 (2022) 108843



Contents lists available at [ScienceDirect](#)

Meat Science

journal homepage: [www.elsevier.com/locate/meatsci](http://www.elsevier.com/locate/meatsci)



## U.S. perspective: Meat demand outdoes meat avoidance

Glynn T. Tonsor<sup>a</sup>, Jayson L. Lusk<sup>b,\*</sup>

<sup>a</sup> Department of Agricultural Economics, Kansas State University, United States of America

<sup>b</sup> Department of Agricultural Economics, Purdue University, United States of America

<https://www.sciencedirect.com/science/article/pii/S0309174022001115>



# MDM & Related Efforts Continue to Generate Research-Based Demand Insights...

Received: 6 August 2021

Accepted: 17 April 2022

DOI: 10.1002/aepp.13287

**FEATURED ARTICLE**



**WILEY**

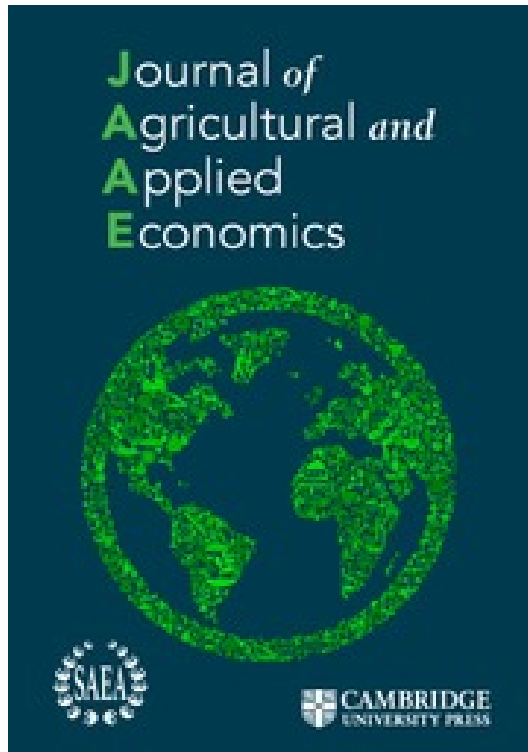
## **Benchmarking US consumption and perceptions of beef and plant-based proteins**

**Hannah Taylor<sup>1</sup> | Glynn T. Tonsor<sup>2</sup> | Jayson L. Lusk<sup>3</sup> |**

**Ted C. Schroeder<sup>2</sup>**

<https://onlinelibrary.wiley.com/doi/epdf/10.1002/aepp.13287>

# MDM & Related Efforts Continue to Generate Research-Based Demand Insights...



COVID-19 Federal Aid &  
Household Food Expenditures  
Justin D. Bina, G. T. Tonsor, and  
B.C. Briggeman. 2023.  
[doi:10.1017/aae.2023.31](https://doi.org/10.1017/aae.2023.31)



# EXAMPLES OF HIGH-IMPACT

The Washington Post  
Democracy Dies in Darkness

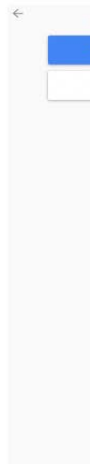
ECONOMY

## Half cows, entire pigs: Families are buying meat in bulk to save money

Rising meat prices — up 11 percent from last year — are leading many to change purchasing and consumption habits

By Abha Bhattarai

August 27, 2022 at 6:00 a.m. EDT



<https://www.agweb.com/news/business/taxes-and-finance/us-now-officially-recession?>

## Is the U.S. Now Officially in a Recession?



U.S. Farm Report 10/29/22 - Roundtable 1

By **TYNE MORGAN** October 28, 2022



f t in ✉

[https://www.washingtonpost.com/business/2022/08/27/inflation-meat-prices/?utm\\_medium=social&utm\\_source=twitter&utm\\_campaign=wp\\_main](https://www.washingtonpost.com/business/2022/08/27/inflation-meat-prices/?utm_medium=social&utm_source=twitter&utm_campaign=wp_main)



# EXAMPLES OF HIGH-IMPACT

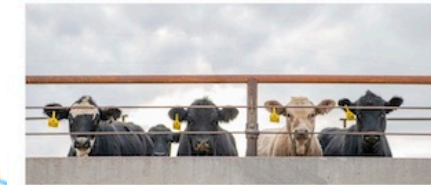
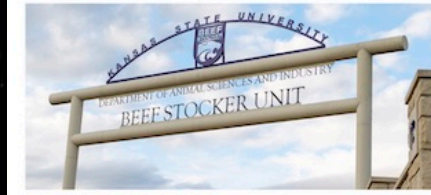
2023 USRSB General Assembly:  
COLLABORATING FOR CONTINUOUS IMPROVEMENT

MAY 2-4, 2023

THE GROVE HOTEL  
BOISE, IDAHO



## Societal Role of Meat



**BEEF STOCKER**

**K-STATE BEEF STOCKER FIELD DAY**

SEPTEMBER 28, 2023

K-STATE BEEF STOCKER UNIT  
4330 Marlatt Avenue, Manhattan, KS

SPONSORED BY:

**MERCK**  
Animal Health



International Meat Secretariat

## Meat Demand Monitor: Overview of Consumer Trends and Available Resources for Industry

Sponsored by



# *EXAMPLES OF HIGH-IMPACT*



**REGISTER NOW**  
**MARCH 18-20, 2024**  
GAYLORD OPRYLAND • NASHVILLE, TN



# *Current Situation – Role of Price & Household Finances is Clear*

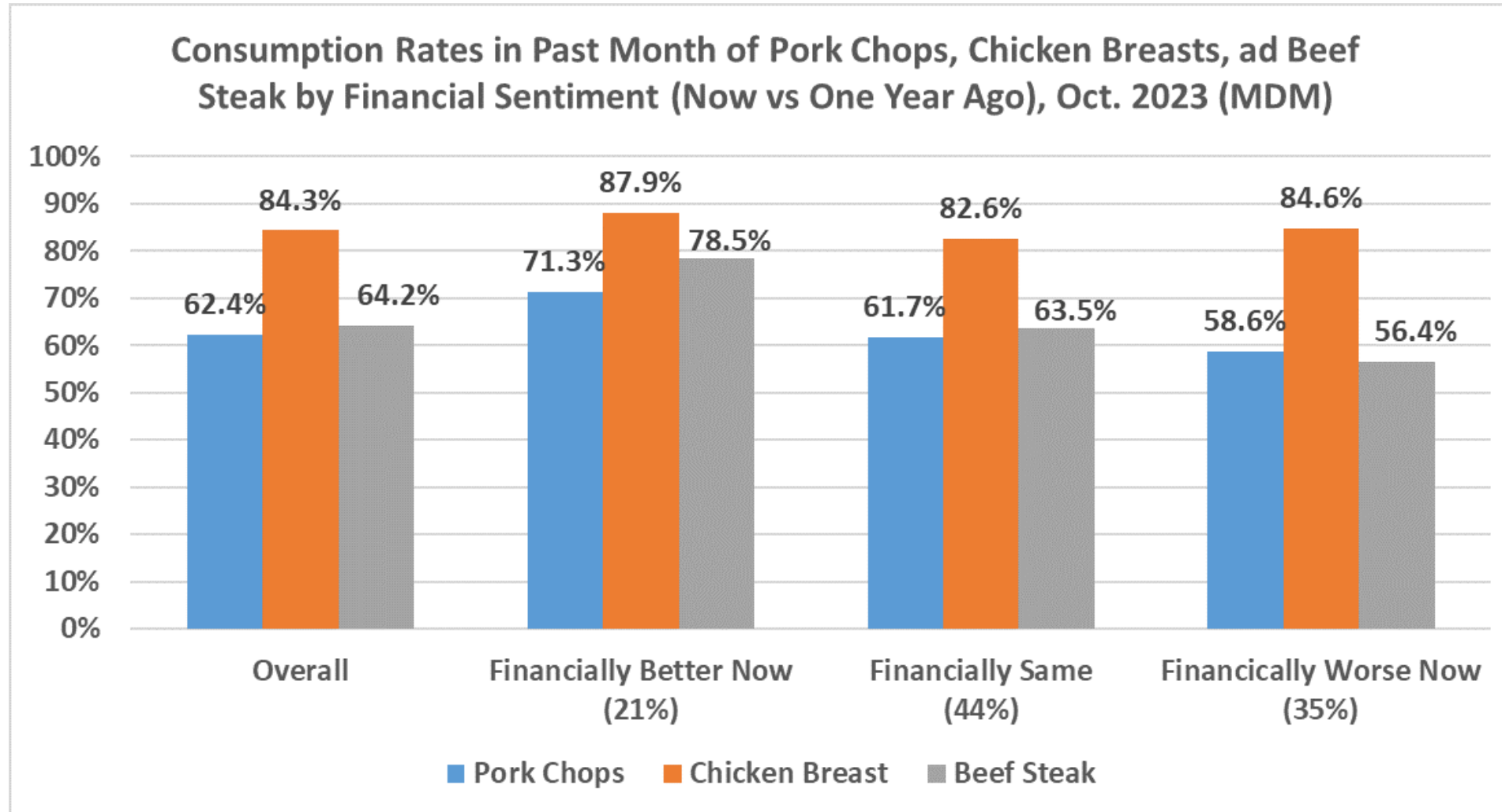


Funded by the Beef Checkoff.



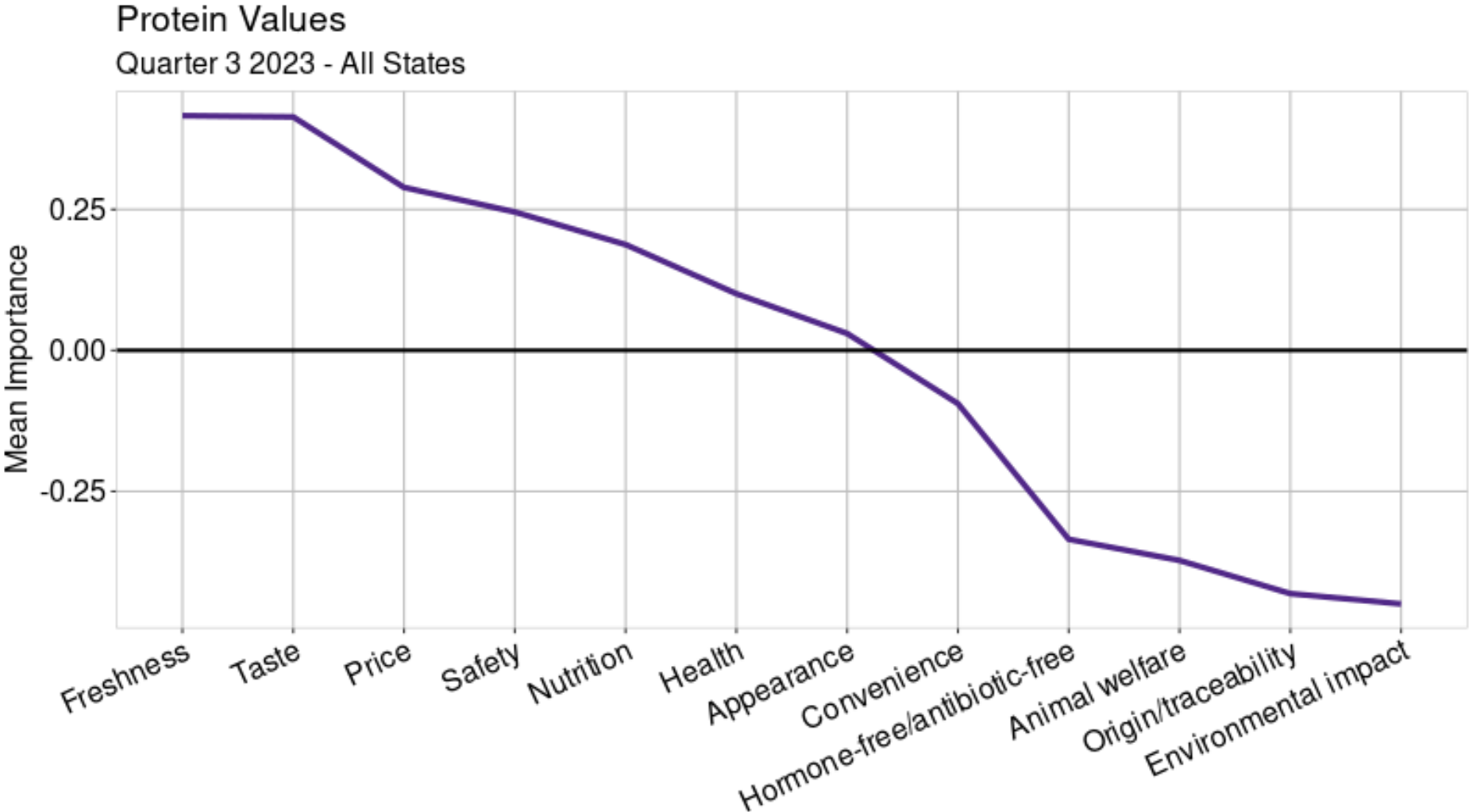
# *Financial Sentiment & Meat Consumption Rates*

## ■ Ad Hoc Section: Oct 2023 Example



# State-Level Dashboard (Justin Bina)

<https://ksmeatdemandmonitor.shinyapps.io/MDMapp/>



Q3-2023 Price Protein Value  
Mean PV = 0.29

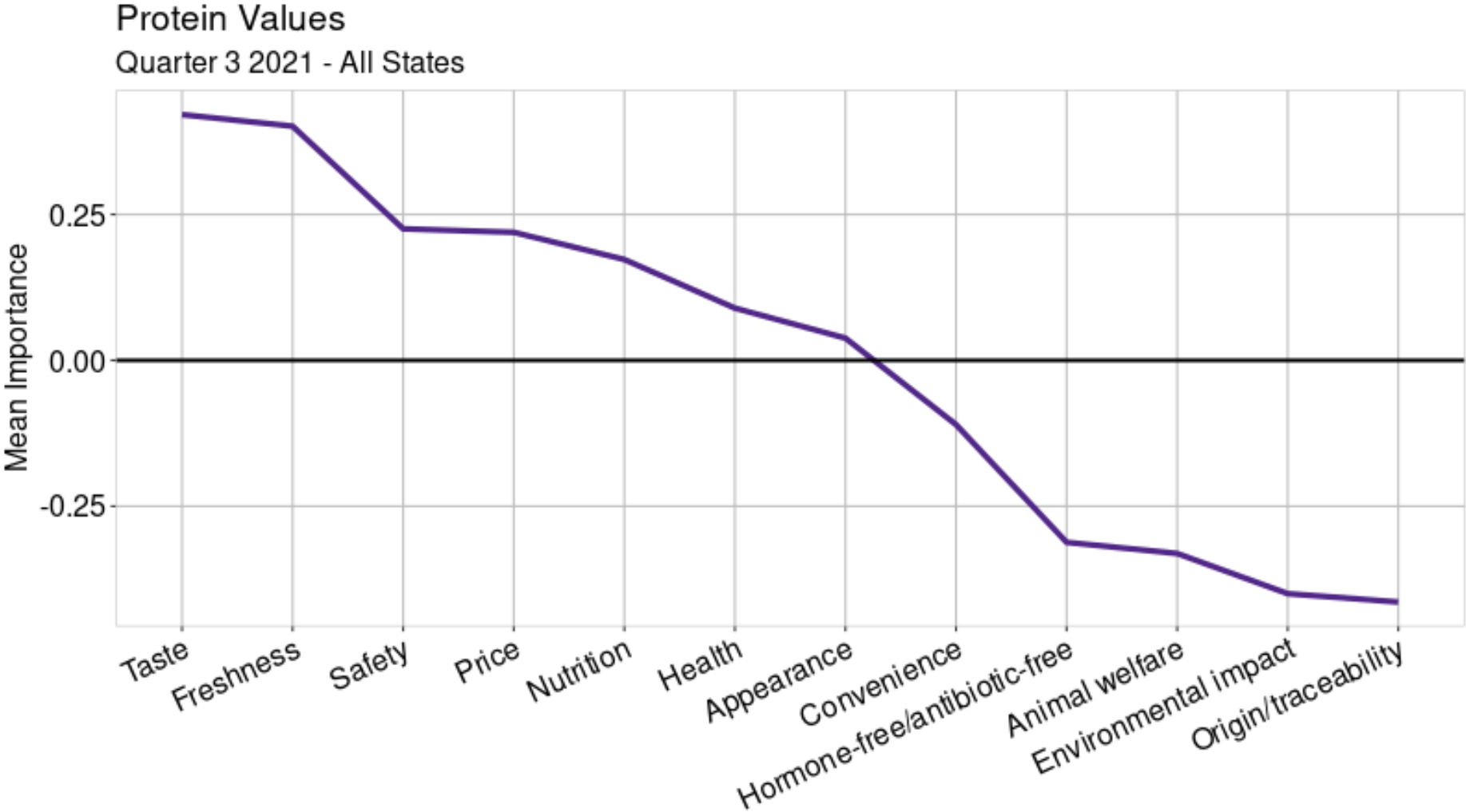
Most Important: 49%  
Least Important: 20%  
Intermediate Importance: 31%



Funded by the Beef Checkoff.

# State-Level Dashboard (Justin Bina)

<https://ksmeatdemandmonitor.shinyapps.io/MDMapp/>



Q3-2021 Price Protein Value  
Mean PV = 0.22

Most Important: 46%  
Least Important: 24%  
Intermediate Importance: 30%



Funded by the Beef Checkoff.

# *State-Level Dashboard (Justin Bina)*

<https://ksmeatdemandmonitor.shinyapps.io/MDMapp/>

		Q3-22	Q3-23	% Change (23 vs 22)
National	N	8,603	8,502	
	Household Income	\$73,072.90	\$73,457.36	1%
	Weekly food at home \$	\$ 110.82	\$ 115.85	5%
	Weekly food away from home \$	\$ 67.06	\$ 69.33	3%



# State-Level Dashboard (Justin Bina)

<https://ksmeatdemandmonitor.shinyapps.io/MDMapp/>

		Q3-22	Q3-23	% Change (23 vs 22)
California	N	872	952	
	Household Income	\$83,945.94	\$86,141.93	3%
	Weekly food at home \$	\$ 112.51	\$ 118.58	5%
	Weekly food away from home \$	\$ 78.25	\$ 80.47	3%
Texas	N	731	748	
	Household Income	\$66,857.16	\$69,320.76	4%
	Weekly food at home \$	\$ 116.45	\$ 117.08	1%
	Weekly food away from home \$	\$ 70.16	\$ 72.67	4%



# THANK YOU!

GLYNN T. TONSOR  
PROFESSOR  
DEPT. OF AGRICULTURAL ECONOMICS  
KANSAS STATE UNIVERSITY  
EMAIL: [GTONSOR@KSU.EDU](mailto:GTONSOR@KSU.EDU)

## WATCH FOR: #MDM

Timeline of MDM Effort: Data Collected, AgM Traffic, Example Key Events

