Product Quality Research & Technical Services

the Beef Checkoff.

Checkoff Program Roadmap through FY 2020

Research Goal: Offize science to solve complex issues associated with product quality and consistency, a	uriu
improve the unique taste attributes of beef that drive it's demand.	

Flavor

Identified as a high-level research priority through 2020 with the goal of understanding flavor complexity and optimizing flavor consistency. Achieved through a targeted research model.

Considerations:

- Key flavor attributes and sensory evaluation
- Precursor compounds
- Industry steps pre- and postharvest [i.e., feeding, aging (traditional- and long-aging, wet and dry), cooking methods, degree of doneness, etc.]
- Cuts beyond middle meats and different beef types or quality levels
- Positive and negative/off flavors

Tenderness & Juiciness

Palatability & Consistency Research

Explore beef tenderness and juiciness attributes and how they develop and change across products because of pre-and post-harvest industry steps. Research goal is to improve consistency of these attributes. Achieved through RFP model.

Considerations:

- Industry steps pre- and postharvest [i.e., feeding, aging (traditional- and long-aging, wet and dry) cooking methods, degree of doneness, etc.]
- Cuts beyond middle meats and different beef types or quality levels
- Marbling
- Carcass and cut size increases

Technical Services

Disseminate science-based research results to key industry stakeholders via creation and distribution of technical materials and tools. Monitor ongoing meat science research, trends, information gaps and research needs.

Serve as key resource for expertise and education on the beef carcass, muscles and cuts, fabrication methods (traditional and novel) and beef technologies such as aging, packaging, nomenclature, cut substitutions, etc.

Audience Examples:

- Scientific community
- Packers & processors
- Other Checkoff programs
- State and channel partners

Technical Services Goal: Serve the industry through expertise and leadership on beef carcass muscles, cuts, product attributes and fabrication solutions.