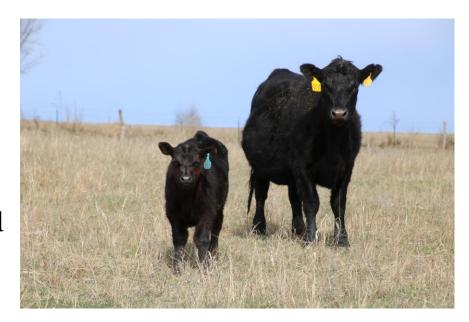
Beef Demand and Economic Outlook

Dr. Melissa McKendree

Assistant Professor and Extension Economist

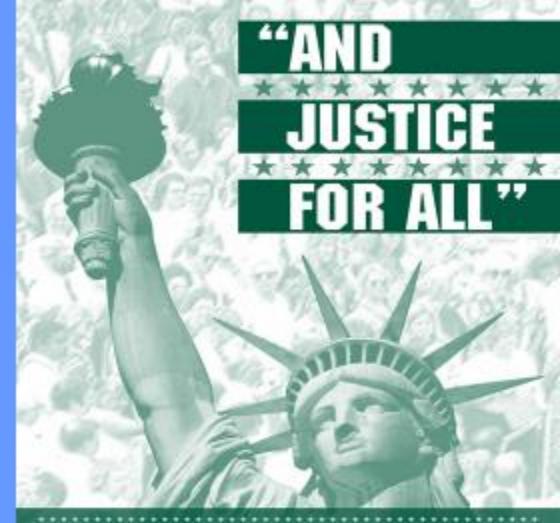
Department of Agricultural, Food, and Resource Economics



Michigan Cattlemen's Assoc. Annual Meeting January 19th, 2019 | St. Johns, Michigan



MSU is an affirmativeaction, equal-opportunity employer. Michigan State University Extension programs and materials are open to all without regard to race, color, national origin, sex, gender, gender identity, religion, age, height, weight, disability, political beliefs, sexual orientation, marital status, family status or veteran status.



In a relation with below 2 for well as becomes of application (1980) and the second o

many on the large party of the party of the large

To the accompany of the property of the Character of the State of the Character of the State of

The materials of the Balton's charge of comity profits and the parameter in a Application of the company tables in Table, per not applied to explore, and parameter is materials to provide the description of the parameter in the company of the

Of the control of the

in might become adversarial with one programs, according to enable to enable the enable of the enabl

Goals for today

- Do changes in beef demand impact you as a cattle producer?
- Brief outlook discussion
- Q&A



Do changes in consumer preferences impact *YOU* as a cattle producer? If so, how?



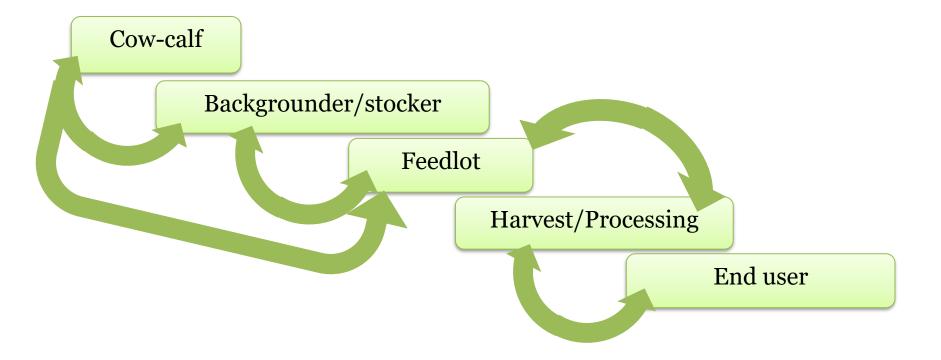


Do changes in foreign consumer preferences impact *YOU* as a cattle producer?





U.S. Cattle Industry





"Demand for beef this week has been fantastic. We have moved a nearrecord volume of boxes, but cutout values are down nearly \$3.00 per hundredweight for the week."

> "A Primer on Beef Demand"- Wayne Purcell, 1998 http://www.naiber.org/Publications/RILP/primer1.pdf



So what is beef demand?

- Beef Demand
 - Schedule of beef quantities consumers would purchase over a range of prices
 - · Refers to the "demand curve" economists speak of
- Quantity of Beef Demanded (AKA "consumption")
 - Quantity of beef consumers will purchase at a given price
 - Refers to a point on the demand curve
 - Changes with available supply EVEN IF demand is unchanged



Beef Demand

- Critically important, yet often confused
- Demand strength reflects consumer valuation of beef
 - Underlies total \$ available to the industry
 - Drives prices and profitability for all!





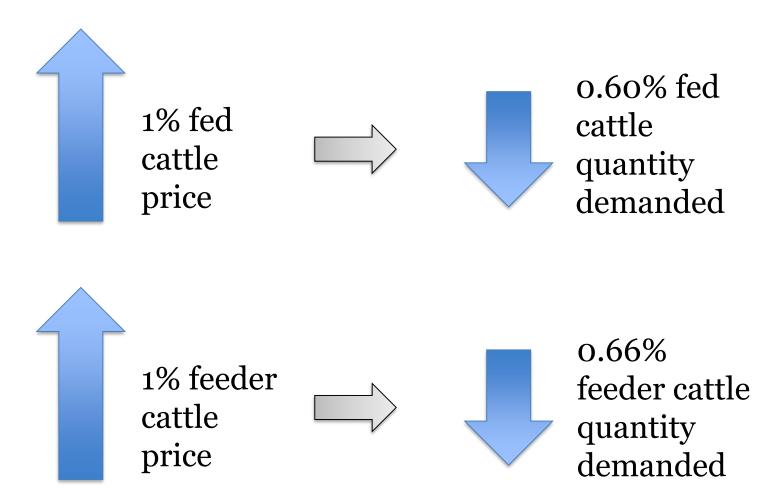
Per capita consumption is **NOT** demand



THE NEXT SLIDES PRESENT ONGOING **WORK! PLEASE CONTACT** mckend14@msu.edu BEFORE CITING!

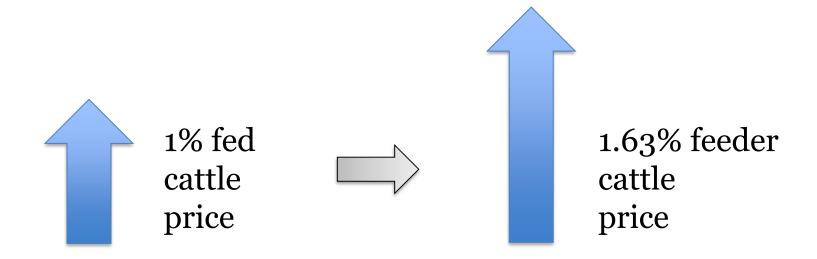


Fed and feeder cattle demand





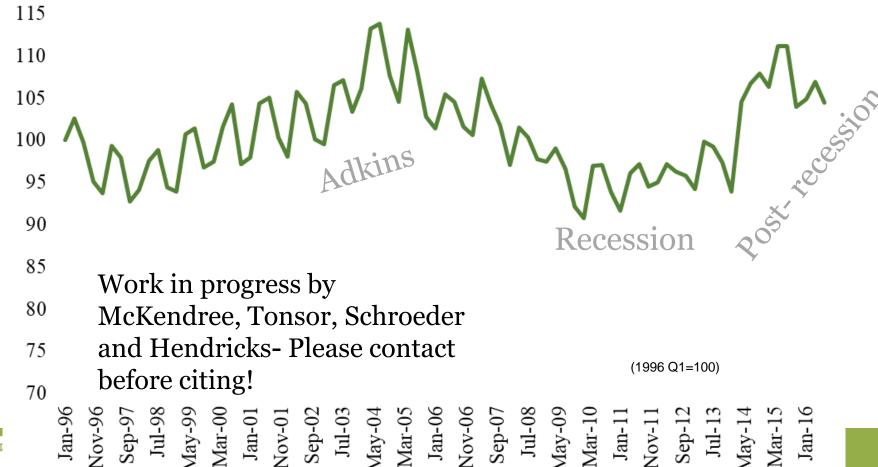
Fed to feeder cattle price transmission





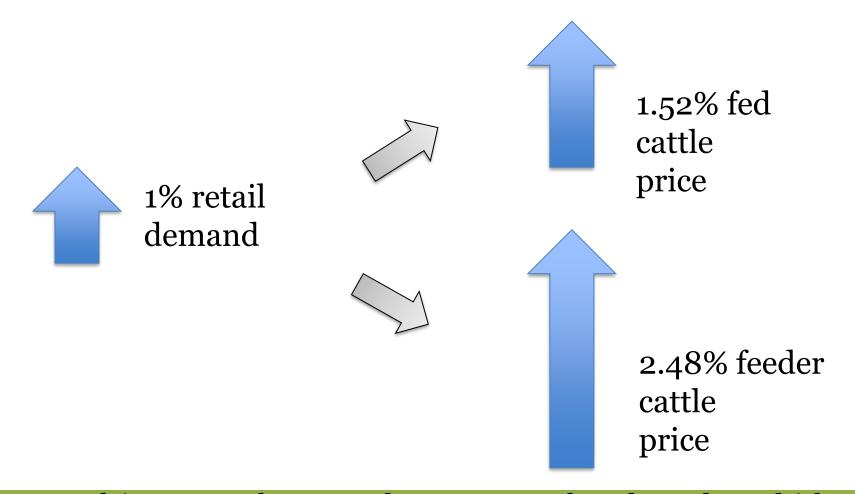
Retail Beef Demand Index

- Q: retail per capita consumption in lbs
- P: choice retail beef price in \$/lb





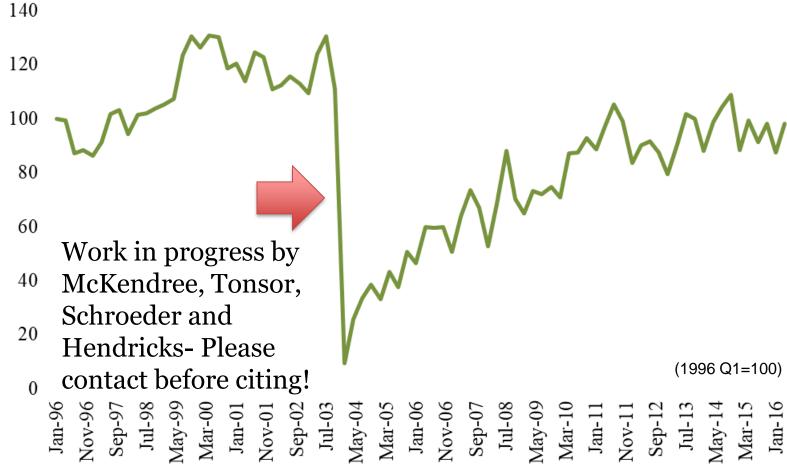
Retail demand impact on cattle prices





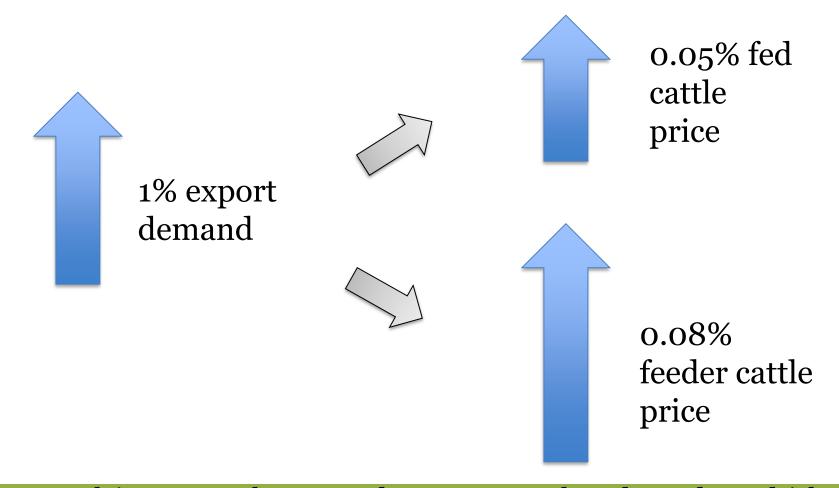
Export Beef Demand Index

- Q: rest of the world per capita consumption of U.S. total beef and veal, and variety meat (beef) exports, in lbs
- P: beef export price in \$/lb





Export demand impact on cattle prices









The \$2 Ohio Beef Checkoff



Home About The Issues News Events Convention Membership Shop! Contact

INDEPENDENT RANCHERS SEEK INJUNCTION OF BEEF CHECKOFF FUNDS IN THIRTEEN MORE STATES



NEWS

Oklahoma beef producers vote down checkoff increase

Referendum failed with 2,506 no votes and 1,998 yes votes.

Beef Checkoff

- From QT3 2014 to QT3 2016, we estimate beef checkoff assessments:
 - Total: \$89.57 million
 - Feeder cattle producers: \$56.40 million
 - Fed cattle producers: \$33.17 million

Work in progress by McKendree, Tonsor, Schroeder and Hendricks-Please contact before citing!



Changes in producer surplus from QT3 2014 to QT3 2016

No Checkoff

Double Checkoff

RD-1.80%

RD 1.80%

 ΔPS_{Feeder}

-\$2.90 billion

\$3.00 billion

 ΔPS_{Fed}

-\$112.71 million

\$69.09 million

Total *∆PS*

-\$3.01 billion

\$3.07 billion

Work in progress by McKendree, Tonsor, Schroeder and Hendricks-Please contact before citing!

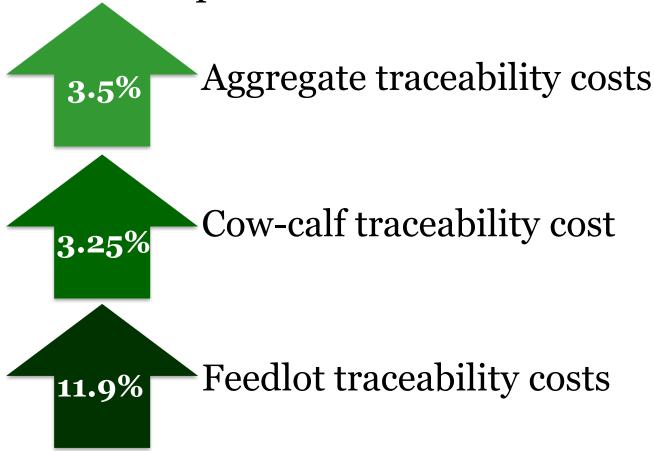
Source and age verification

- Per head cost estimates from Brester et al.
 (2011), WPI (2018)
 - \$2.65 to \$4.65 for cow-calf operations current identifying their animals (visual tagging)
 - ➤ \$172.40 million
 - \$0.13 to \$0.55 for feedlot operations
 - ➤ \$17.83 million



Source and age verification

Increases in export demand to cover costs:





Implications

- How can you apply to your operation:
 - Generic advertising increases retail beef demand
 - Should we increase check off to \$2/transaction?
 - Negative reaction to a food safety recall
 - Multiple export negotiations

You should be interested in what is happening in upstream, downstream, and horizontal markets and think about how this impacts you!



Beef Outlook



Source: agmanger.info photo contest









Due to a lapse in federal funding, this USDA website will not be actively updated. Once funding has been reestablished, online operations will continue.

Due to the lapse in Congressional Appropriations for Fiscal Year 2019, the U.S. Department of Commerce is closed. Commerce Department websites will not be updated until further notice.



OFFICE OF THE CHIEF ECONOMIST

United States Department of Agriculture

This USDA website will not be updated during a lapse in federal funding. Content on this website may not be current or maintained until funding issues have been resolved.





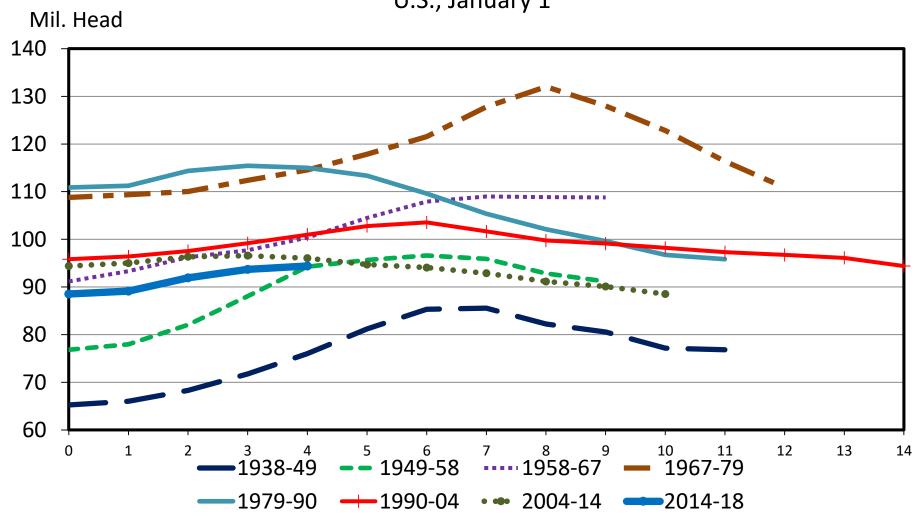
Cattle Numbers





TOTAL CATTLE INVENTORY BY CYCLE

U.S., January 1

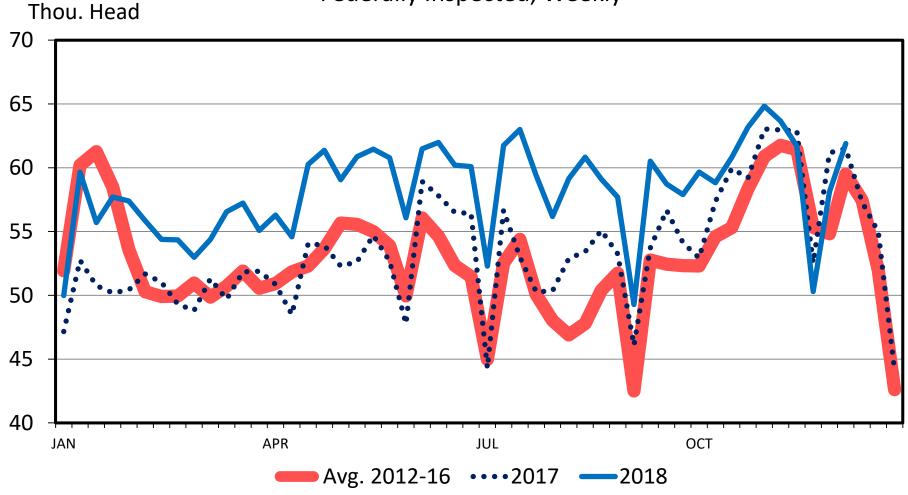


Data Source: USDA-NASS



BEEF COW SLAUGHTER

Federally Inspected, Weekly

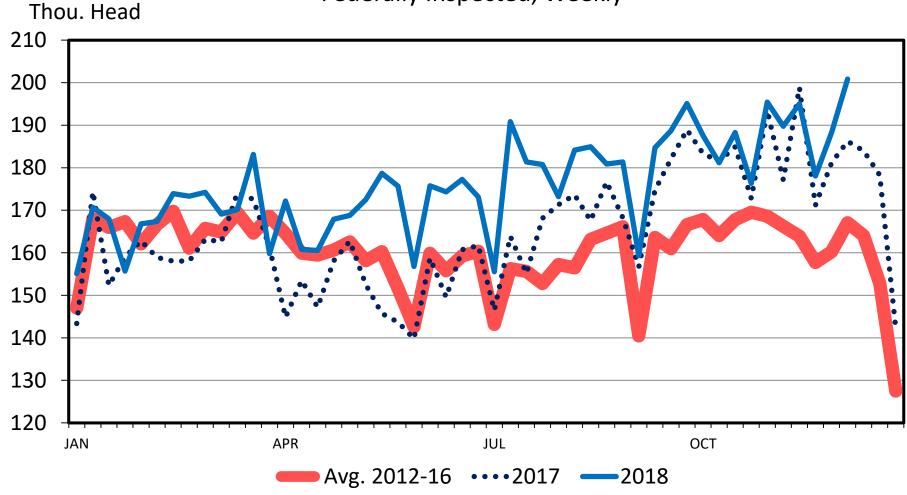


Data Source: USDA-AMS & USDA-NASS



HEIFER SLAUGHTER

Federally Inspected, Weekly



Data Source: USDA-AMS & USDA-NASS



JANUARY 1 US CATTLE INVENTORY

(1,000 Head)

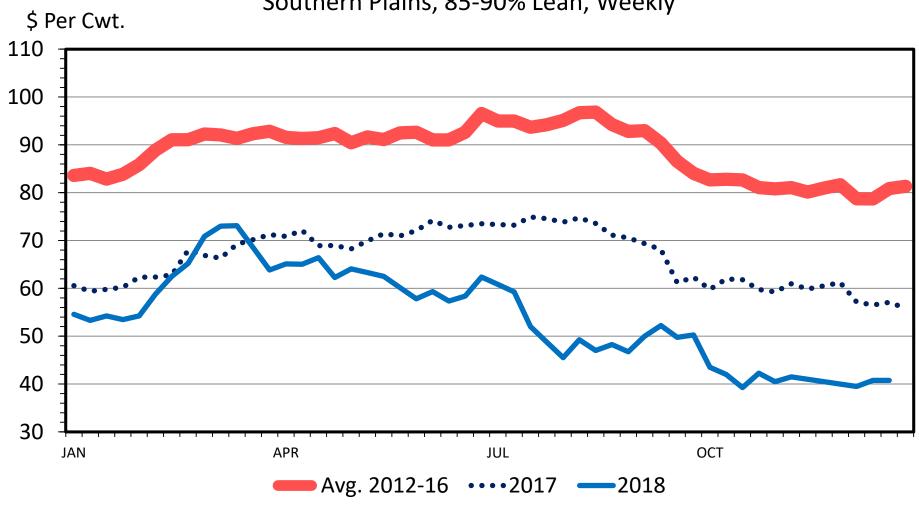
01/11/19 3.102

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 % 2019 Change from 18
All Cattle & Calves	94721	94081	92887	91160	90095	88526	89143	91918	93705	94399	1
Cows & Heifers That Have Calved Beef Cows	41127 31794	40526 31440	40068 30913	39517 30282	38853 29631	38293 29085	38609 29302	39476 30166	40559 31213	41123 31723	
Dairy Cows	9333	9087	9156	9236	9221	9208	9307	9310	9346	9400	
Heifers 500 Pounds & Over Beef Cow Replacements Dairy Cow Replacements	19604 5550 4410	19778 5443 4551	19650 5135 4577	19445 5281 4618	19256 5429 4546	18969 5551 4549	19261 6086 4710	19907 6340 4814	20132 6368 4754	20245 6131 4781	•
Other Heifers	9644	9784	9938	9546	9281	8869	8464	8753	9010	9332	•
Steers 500 Pounds & Over	16809	16568	16394	15957	15931	15668	15630	16315	16384	16352	
Bulls 500 Pounds & Over	2188	2190	2165	2100	2074	2038	2109	2142	2244	2252	(
Heifers, Steers & Bulls Under 500 Pounds	14994	15019	14610	14141	13983	13558	13534	14077	14386	14427	
Calf Crop	35939	35740	35357	34469	33730	33522	34087	35093	35808	36250	



SLAUGHTER COW PRICES

Southern Plains, 85-90% Lean, Weekly

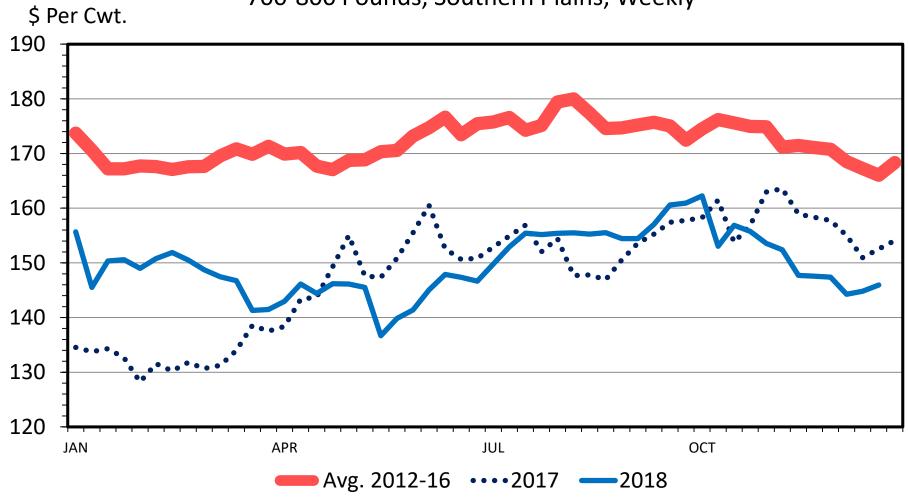


Data Source: USDA-AMS



MED. & LRG. #1 FEEDER STEER PRICES

700-800 Pounds, Southern Plains, Weekly

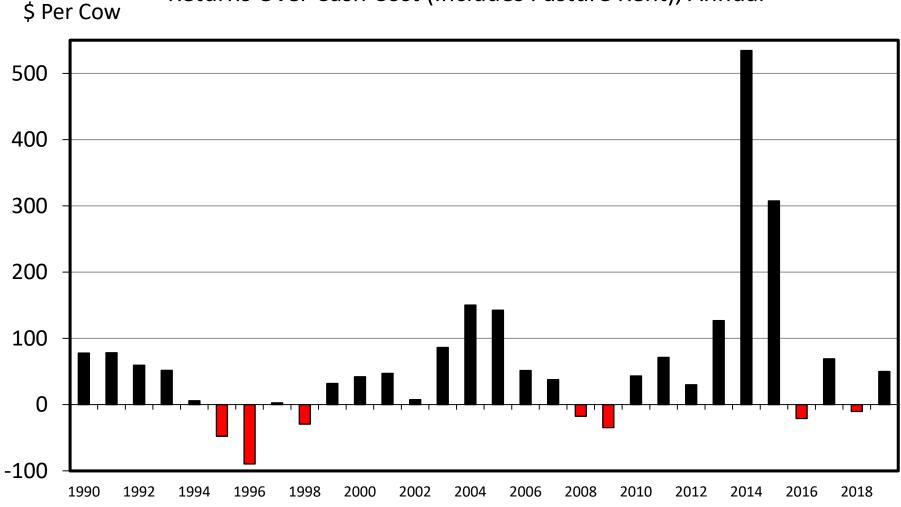


Data Source: USDA-AMS



ESTIMATED AVERAGE COW CALF RETURNS

Returns Over Cash Cost (Includes Pasture Rent), Annual

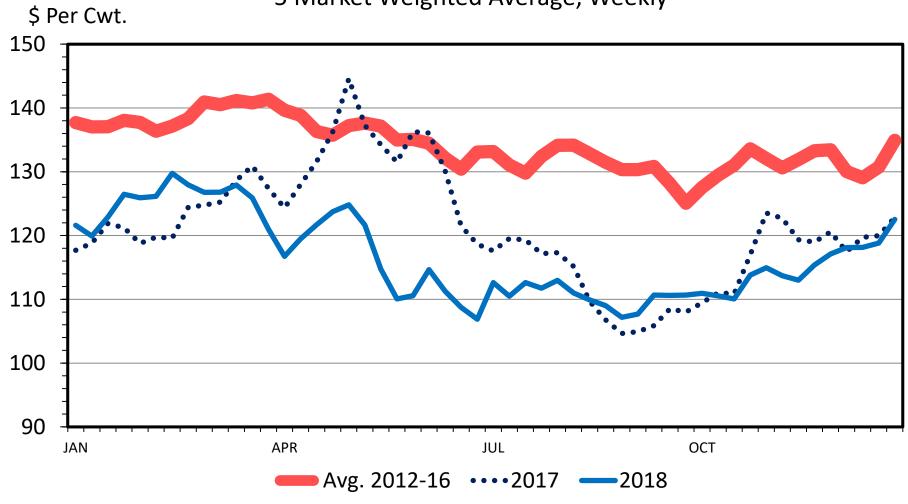


Data Source: USDA & LMIC, Compiled by LMIC



SLAUGHTER STEER PRICES

5 Market Weighted Average, Weekly

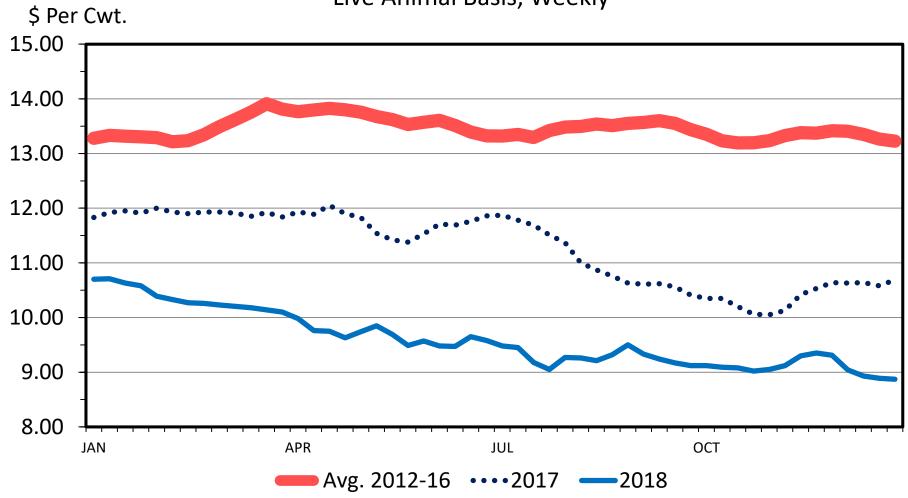


Data Source: USDA-AMS



STEER HIDE AND OFFAL VALUE

Live Animal Basis, Weekly

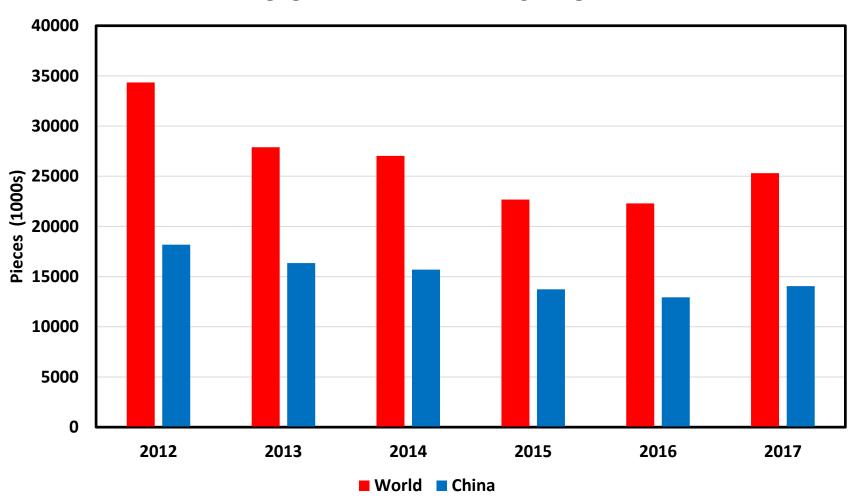


Data Source: USDA-AMS

C-P-39 12/10/18



U.S. RAW HIDE EXPORTS

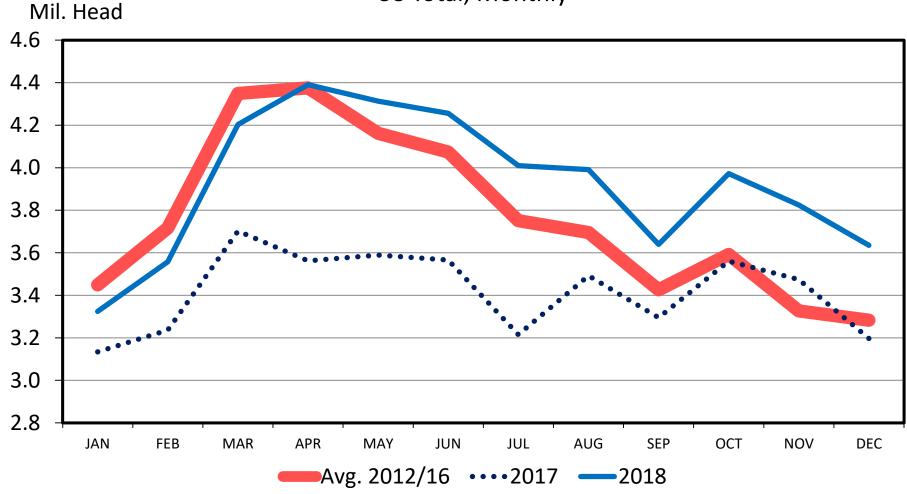


Data Source: USDA-FAS



CATTLE ON FEED OVER 120 DAYS

US Total, Monthly



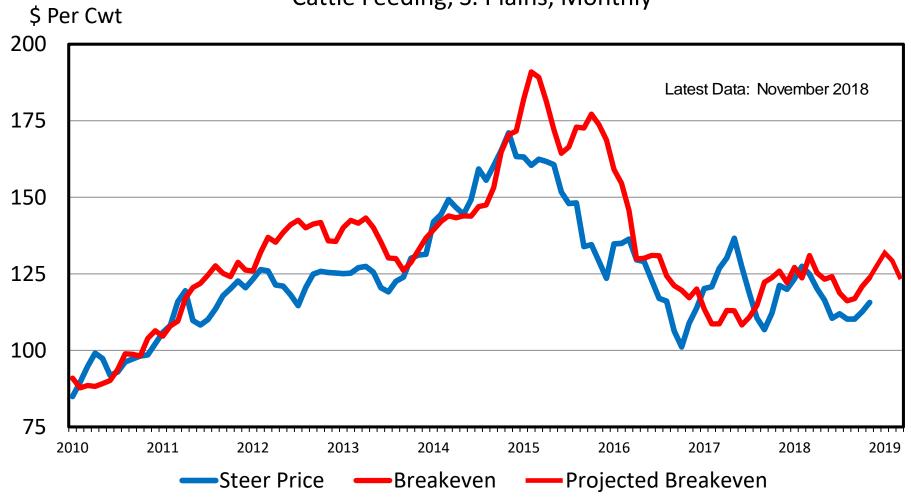
Data Source: USDA-NASS, Compiled by LMIC

Livestock Marketing Information Center



CHOICE STEER PRICE vs BREAKEVEN

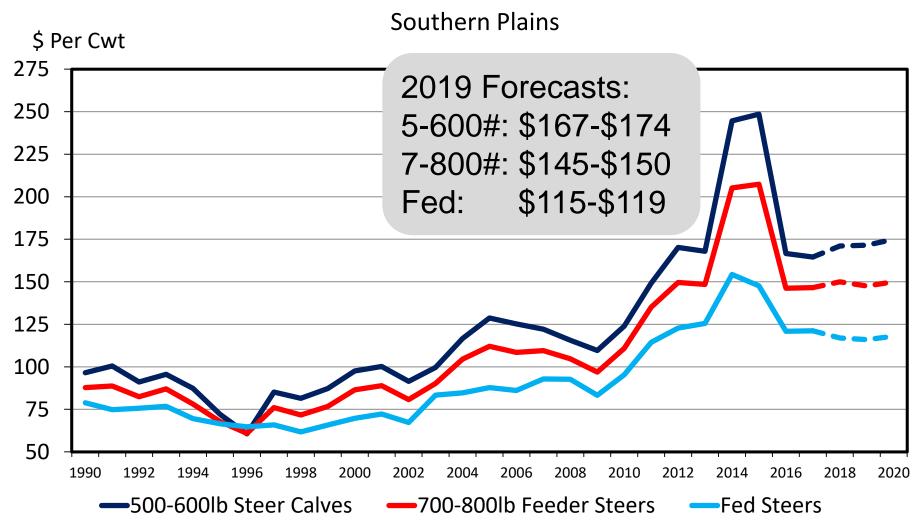
Cattle Feeding, S. Plains, Monthly



Data Source: USDA-AMS & USDA-NASS, Compiled & Analysis by LMIC



AVERAGE ANNUAL CATTLE PRICES

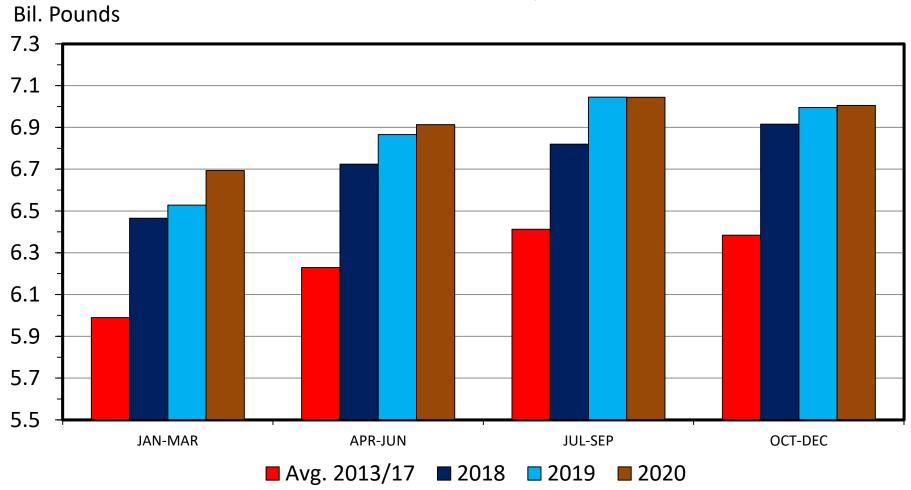


Data Source: USDA-AMS, Compiled and Forecasts by LMIC



COMMERCIAL BEEF PRODUCTION

US, Quarterly

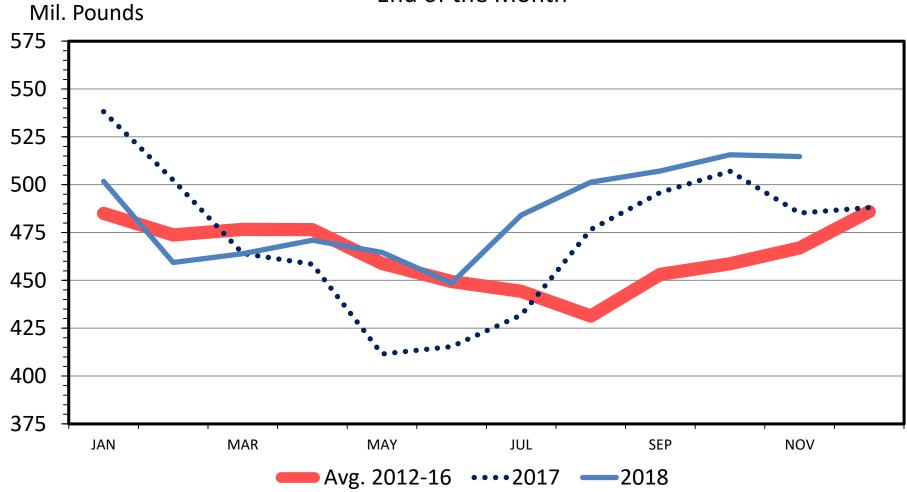


Data Source: USDA-NASS, Forecasts by LMIC



BEEF IN COLD STORAGE

End of the Month



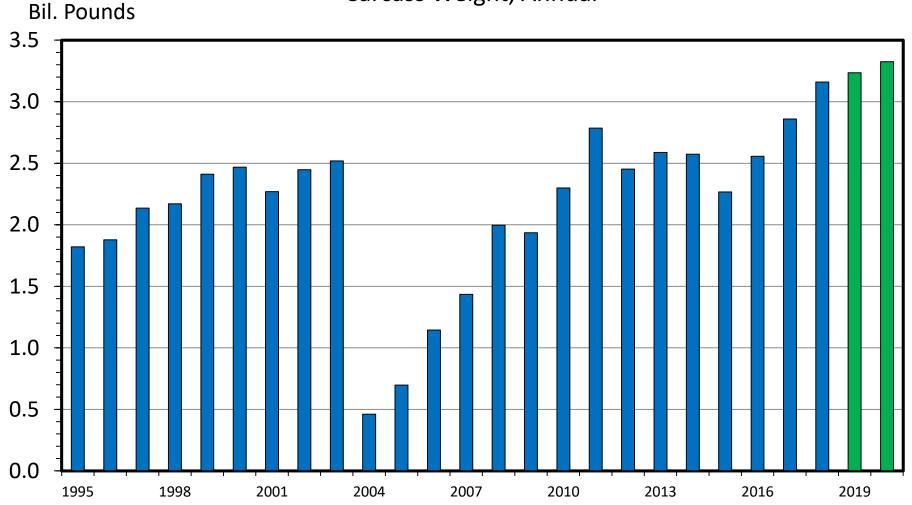
Data Source: USDA-NASS

P-S-04 12/21/18



US BEEF AND VEAL EXPORTS

Carcass Weight, Annual

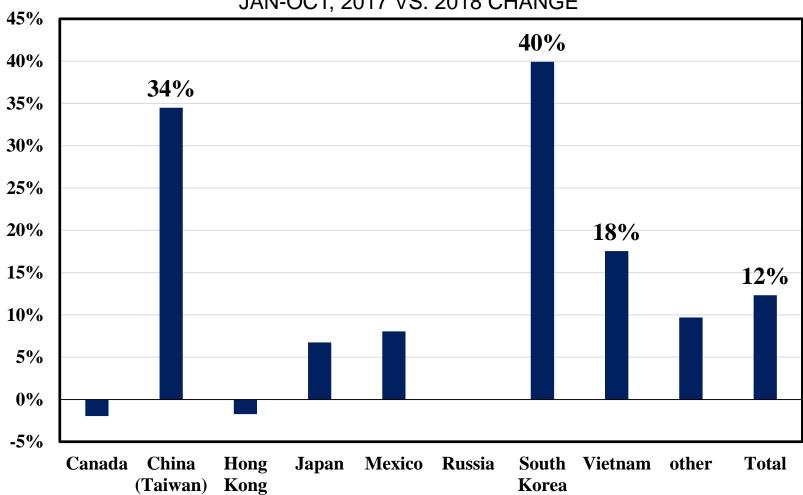


Data Source: USDA-ERS & USDA-FAS



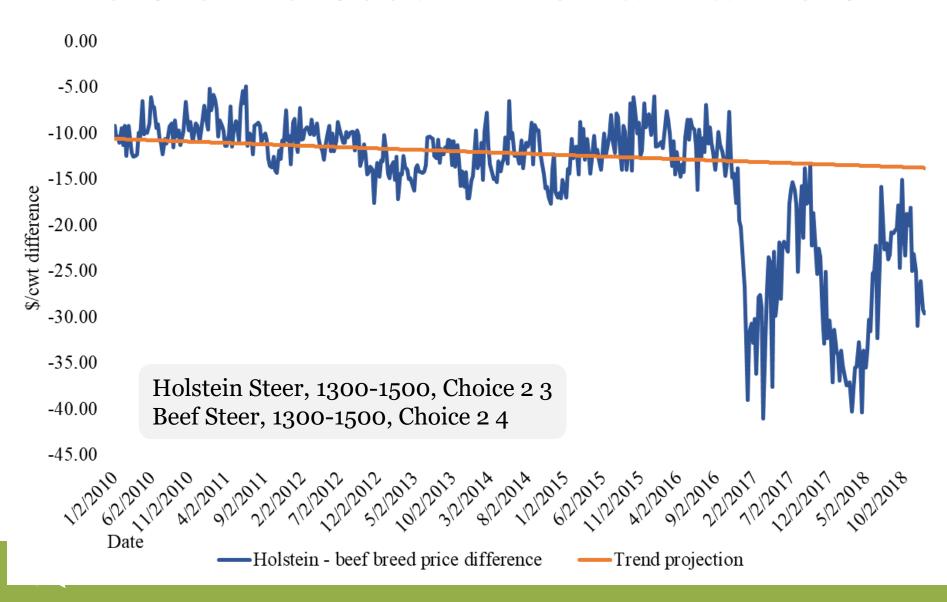
BEEF MUSCLE CUT EXPORTS

JAN-OCT, 2017 VS. 2018 CHANGE



Data Source: USDA-FAS

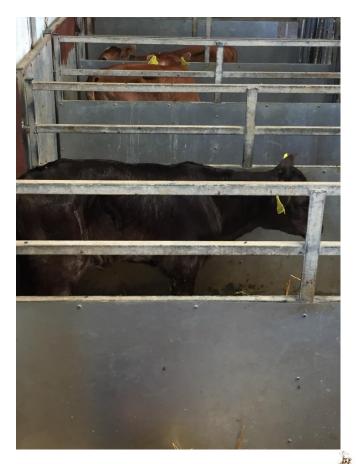
Holstein discount- Iowa markets



Changes to Inventory: Dairy Cross-breeding









Thank you!

Dr. Melissa McKendree mckend14@msu.edu

