### **Backgrounding / Stocker Profitability Conference**







A huge thanks to the Agricultural Development Board for funding this program through the Kentucky Beef Network!



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Using the Futures Market to Estimate Sale Prices

## **Feeder Cattle Contracts**

- ■50,000 lbs or 500 cwt
- Medium / Large Frame #1-2 Steers
- Average Weight = 800 lbs.
- Close: Last Thursday of contract month
- Settlement: Cash settled at the Feeder Cattle Index



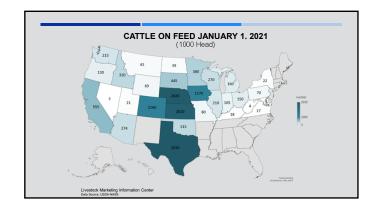
### **CME© Feeder Cattle Index**

- 7 day weighted average of actual feeder cattle sales
- Medium / Large Frame #1-2 steers
- 700-899 lbs
- Excludes any thin, fleshy, dairy infl., etc.
- 12-state region: CO, IA, KS, MO, MT, NE, NM, ND, OK, SD, TX, and WY
- Ties future's price to actual cattle sales

# What is basis?

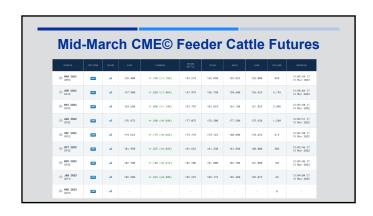
- The difference between local price and futures price
- Local price futures price = BASIS
- You can also think of basis as an "Adjustment Factor"
- The way you adjust Future's prices to estimate local prices
- I prefer "over" and "under"
- le: 800 lb steers in KY are selling \$6 under the April board

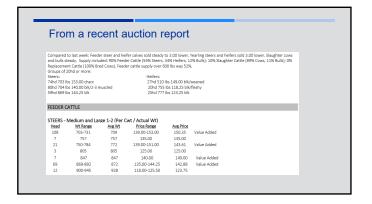




# What are feeder futures prices really? Market expectation of feeder cattle prices in the future Where? Major cattle areas, states included in index Are KY feeder cattle prices different than there? THIS IS BASIS!!

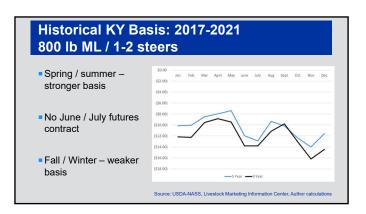
# Factors that affect basis... Anything that would affect prices in futures and local markets differently Transportation costs Quality differences Lot size Local supply and demand conditions How would fuel prices affect KY feeder cattle basis? How about weather?











# Estimating Sale Price – historical approach

- Price expectation = futures + basis
- Start with futures price for sale month
- Following month if no futures price
- Add basis estimate
- May be adding negative number
- Adjust for lot size, quality, etc.
- Futures + basis = cash market price prediction



# **Understanding Your Unique Basis**

- We can only track historical KY average basis
- Lot size, quality, location vary
- Value in tracking individual basis
- Start with current basis, use history for seasonal adjustment
- Incorporates current conditions better



# **Estimating Sale Price from Current Basis Example 1**

- Load of 800 lb steers to be sold in August
- August futures are \$178 per cwt
- Current basis around \$10 under
- Current cash minus March futures
- Basis tends to weaken by \$1 from March to August
- Use \$11 under basis estimate
- Estimate sale price of \$167 per cwt

# **Estimating Sale Price from Current Basis Example 2**

- Load of 800 lb steers to be sold in October
- October futures are \$182 per cwt
- Current basis around \$10 under
- Current cash minus March futures
- Basis tends to weaken by \$4 from March to October
- Use \$14 under basis estimate
- Estimate sale price of \$168 per cwt

## **Final Thoughts on Sale Price Estimation**

- Make basis second nature
- Think basis when you see cattle sell
- Futures are a price forecast
- Basis is an educated guess
- Be conservative / avoid false precision
- Consider a range of basis estimates in your budget

