

Cattle feeding in the U.S.



History

- Started in Midwest as a way for farmers to upgrade the price of their corn
- Gradually expanded to the Central Plains states and Southwest
 - Cattle
 - Grain
 - Climate
 - Banker's attitude



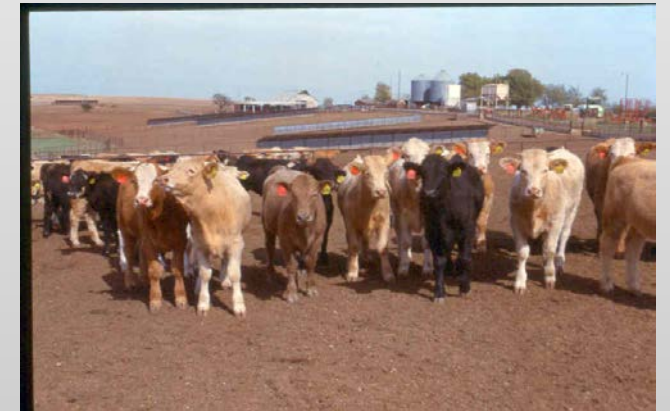
History

- Gradually started increasing in size
 - Economies of size
 - Economies of scale
 - Specialization
- Gradually changed from farmer-feeder to individually-owned or corporate structure
- Today, feedlots >1000 head capacity feed >85% of all cattle



Types of Feedlots

- Farmer-Feeder
- Backgrounding / Starter Yard
- Independent Feedlot
- Corporate Feedlots

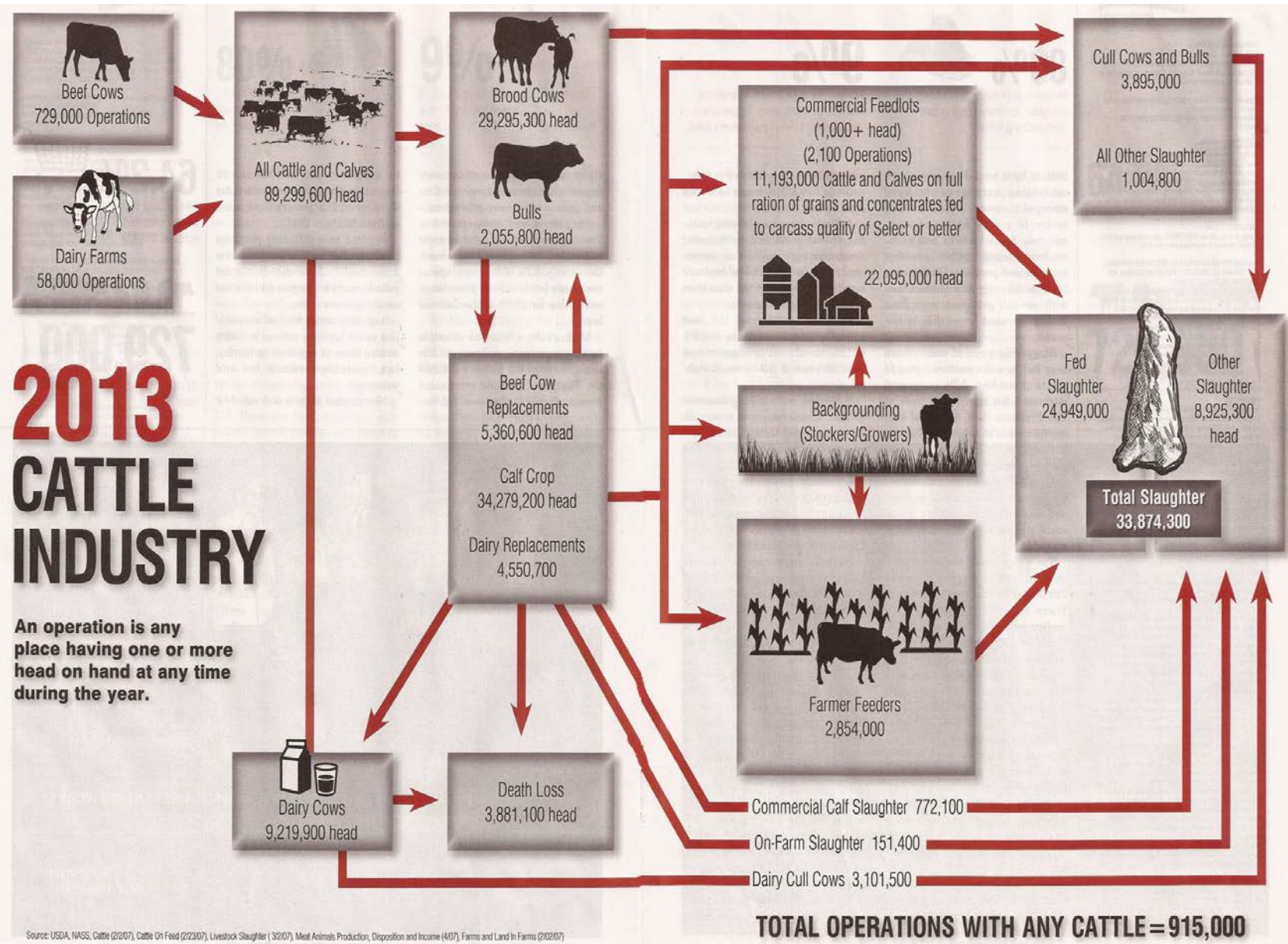


Background

- The final phase of cattle production for cattle intended for slaughter.
- Cattle arrive at the feeding facility as newly weaned calves, backgrounded calves, auction market, single source, yearlings and culled adult cattle (mainly cows) (cattle from Mexico and Canada....Hawaii)

Feeder Cattle Placements

- Sex:
 - 60% steers/bulls
 - 40% heifers
- Age:
 - Calves: 15-20%
 - Short yearlings: 25-35%
 - Yearlings/Long yearlings: 45-55%



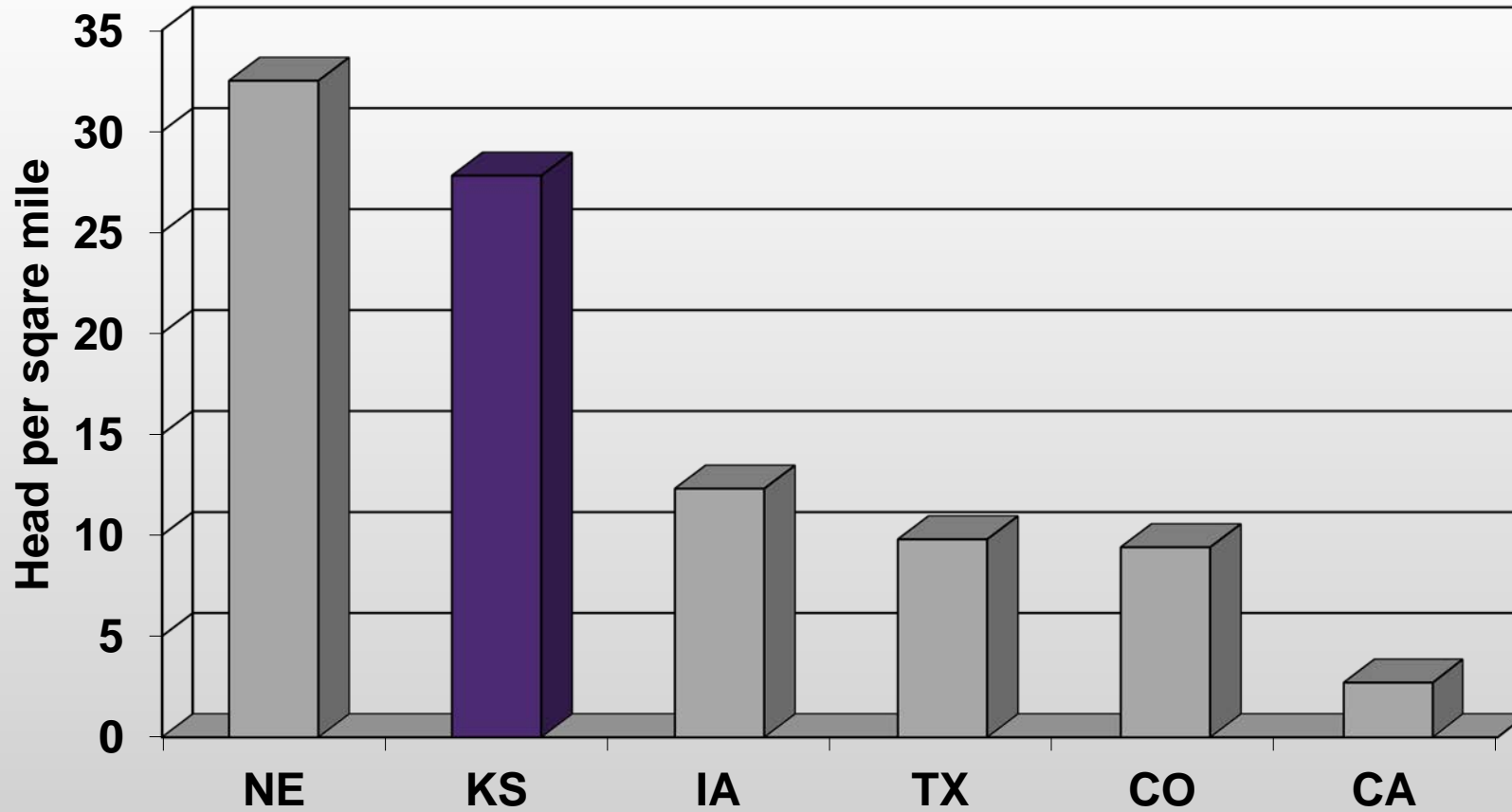
On average cattle are hauled 4 to 6 times during their life – Gonzales 2016

Feedlot States (11,332,000 COF in U.S.)

<u>State</u>	<u>COF on 01NOV17</u>	
• Texas	2,640,000	
• Nebraska	2,520,000	
• Kansas	2,290,000	84.3% of fed cattle in U.S.
• Colorado	980,000	
• Iowa	690,000	
• California	440,000	

USDA NASS January 2018

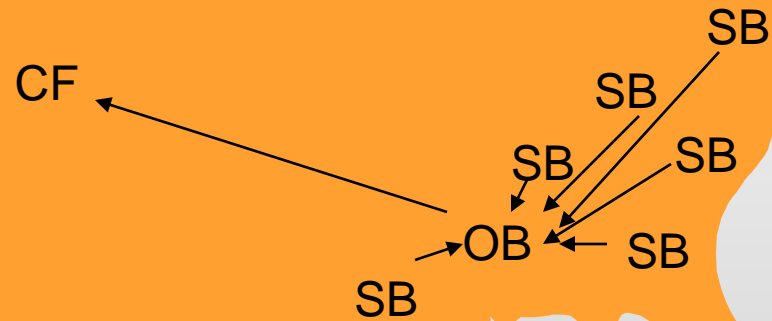
Cattle on feed per square mile



Cattle flow into feedlots

- **Cattle market dictates cattle type and flow**
- **Facilities and people - overwhelming the system**
- **The more new high risk cattle you have at a facility the higher risk your low risk cattle become.**
- **Also dictates when cattle are sold**

ONE ORDER BUYER = 32 SALE BARNS



Adding on pens

- **Average cow herd size is 40 head**
- **Average feeding pen size is 150 head**
- **Cattle commingled to fill pens.**
- **How many days to build a pen?**

Feedlot Business

- Moving the feed to the cattle, bringing packers to the feeders



Feedlot Live Production Goals

- Daily Feed Intake (100% DM basis)
 - Steers = 3.00 % of body weight
 - Heifers = 2.75 % of body weight
- Gain (ADG)
 - Steers > 3.50 lbs/day – 150 to 180 days on feed
 - Heifers > 3.25 lbs/day
- Feed efficiency (F/G)
 - Steers < 6.50 lbs feed/lb gain
 - Heifers < 6.75 lbs feed/lb gain

Top 5 Beef Packing Companies

<u>Company</u>	<u>Daily Cap.</u>	<u>Plants</u>	<u>States</u>
• Cargill Meats	29,000	10(9)	KS, TX, CO, NE, etc.
• Tyson Foods	28,700	8	KS, TX, NE, WA, etc.
• JBS Beef	28,600	8	CO, TX, NE, AZ, etc.
• National Beef	14,000	3	KS, CA



NCBA, Feedstuffs 2011

Typical feedlot calf

- Arrives at 7 months of age at a weight of 600 lb.
- Processed on arrival - vaccination
- Fed grain based diet for 180 to 200 days
 - Checked everyday for health
 - Fed three times a day
 - 90% concentrate
- Slaughtered at 15 to 16 months of age at 1300 to 1400 lb.

Unless.....



Thank you!!!

- PAC Partners
- KSU CVM
- Collaborators
 - BMG
 - National
 - Tyson
 - Cargill
 - JBS
 - NCBA
 - KLA
- State Beef Councils
 - Kansas, Iowa, Oklahoma, Colorado, Nebraska
- KSU Animal Science
- TRANSPORTERS

