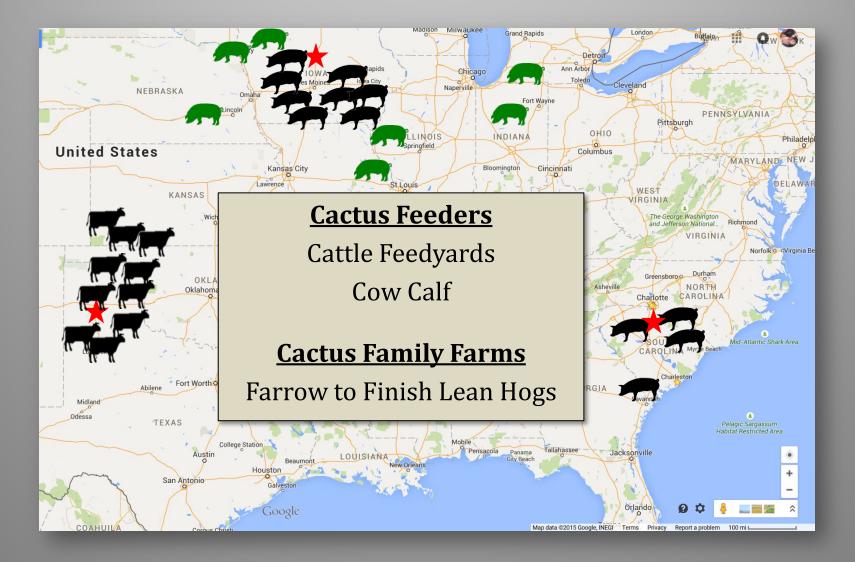


# Justin Gleghorn, PhD Director of Value Management

# Developing a Crossbred Calf that is Profitable in Today's Market







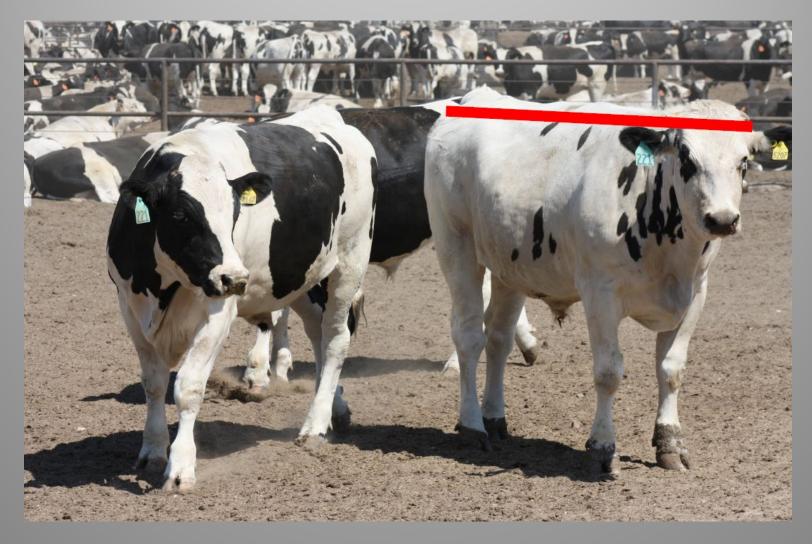
### **Discussion Topics**

- What happened to our fed-Holstein model?
- Developing a merchantable calf program
- Future of the Beef x Dairy program in High Plains



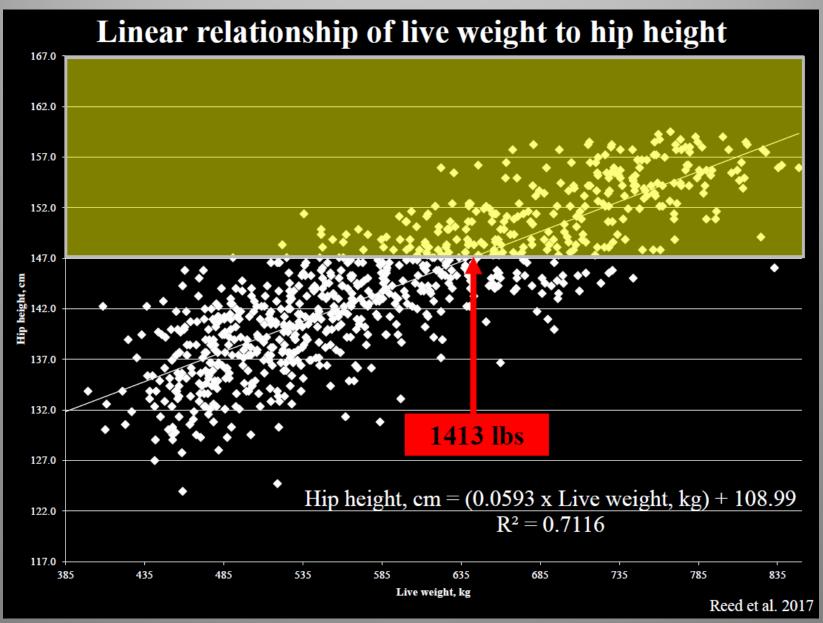
# What Happened to the Holsteins?





### Tyson has height limit of 58 inches







### Tongues & lips drag in the blood-pit





### 6.3% Drag Rate

### 1.13% of total drop value











Lean trimmed from neck & shoulder area Worker Safety















## **Creating Problems**

- Aggressive feeding
  - Acidosis
  - Lameness
  - Liver Abscesses
  - Decreased Feeding
     Performance



# Liver Quality



















# Efficiency loss associated with bagging open abscess to prevent cross contamination

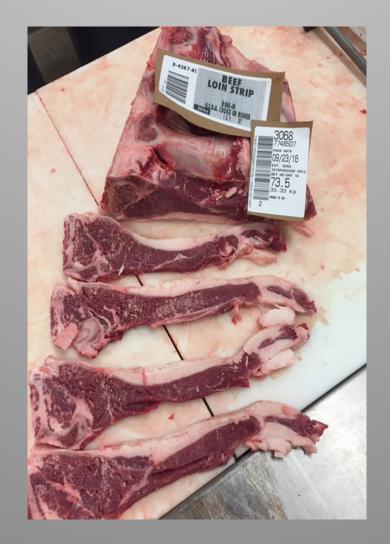


# Economic Effect in Packing Plant

- Holstein Dress Yield
  - 59%
- Holstein Red Meat Yield
  - <66%
- Condemnation Rates
  - Viscera table: 75%
  - Head chain: 25%
- 15% efficiency loss
  - \$2,300/min
- \$200/hd lost value



# **Muscle Conformation**

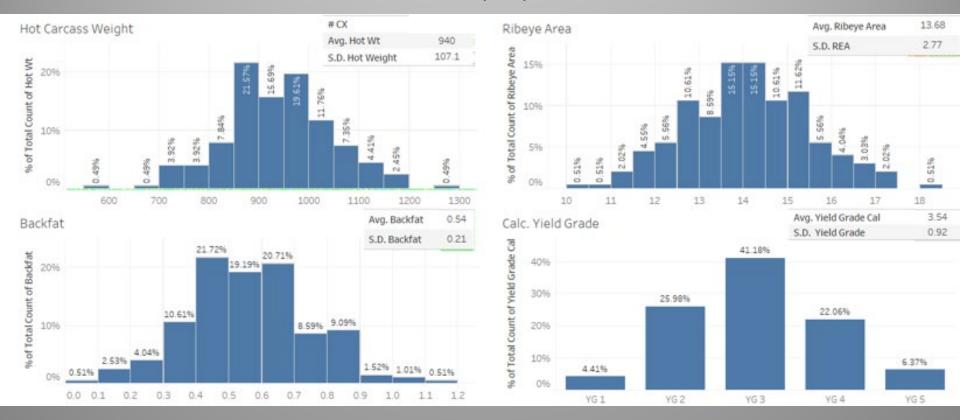




# Managing Variation

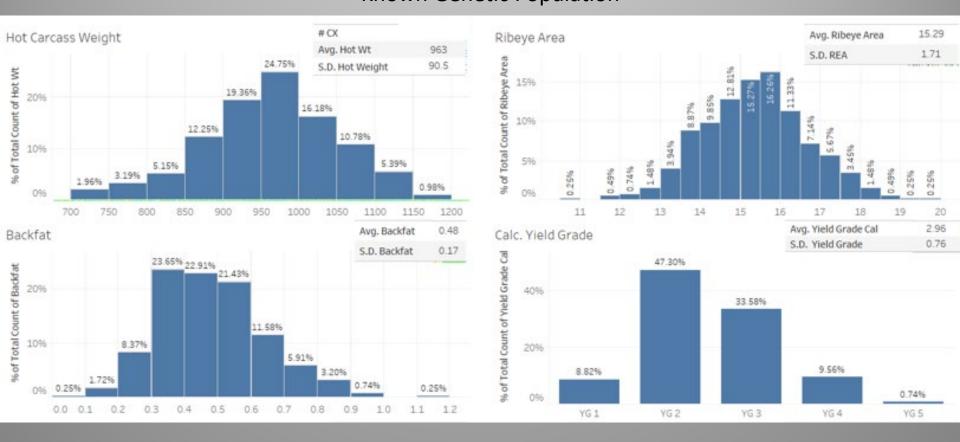


#### Individual Carcass Data – Distribution Summary Commodity Population





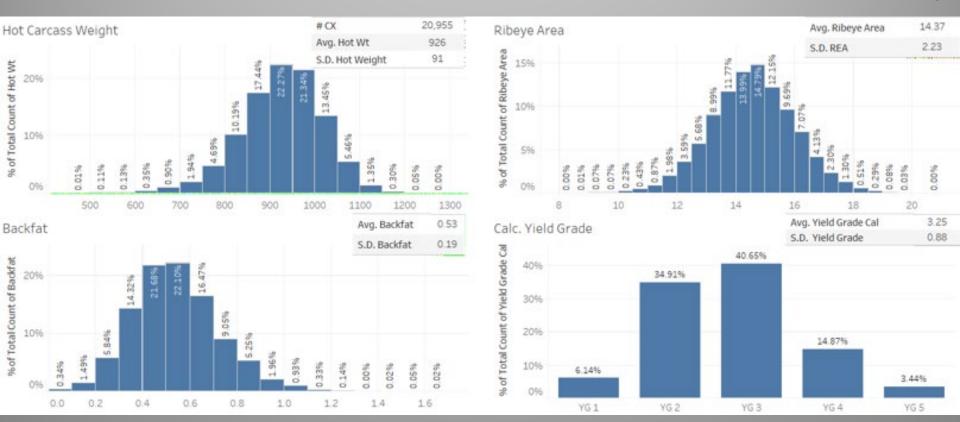
#### Individual Carcass Data – Distribution Summary Known Genetic Population



- Heavy carcass discount 15% on both populations
- Able to generate additional 23 lbs of HCW in 30 fewer days
- \$30/hd in additional value



### Individual Carcass Data – Distribution Summary





### **Carcass Metrics**

### Ribeye Area

<b>Row Labels</b>	<b>•</b>	Steer		Heifer	
9		0.00%		0.50%	
10		1.02%		1.99%	
11		5.10%		6.47%	
12		14.29%		15.92%	
13	85%	18.37%	92%	26.87%	
14		30.61%		30.85%	
15		16.33%		11.94%	
16		10.20%		3.98%	
17		3.06%		1.49%	
18		1.02%		0.00%	

Row Labels	<ul> <li>Steer</li> </ul>	Heifer
0.10	2.04%	0.00%
0.20	2.04%	4.48%
0.30	10.20%	11.94%
0.40	19.39%	22.89%
0.50	18.37%	30.85%
0.60	17.35%	17.41%
0.70	16.33%	8.96%
0.80	6.12%	1.99%
0.90	6.12%	0.50%
1.00	2.04%	0.50%
1.10	0.00%	0.50%

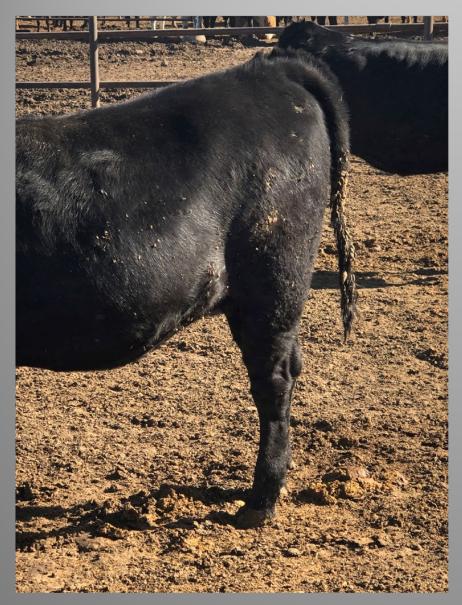
BackFat

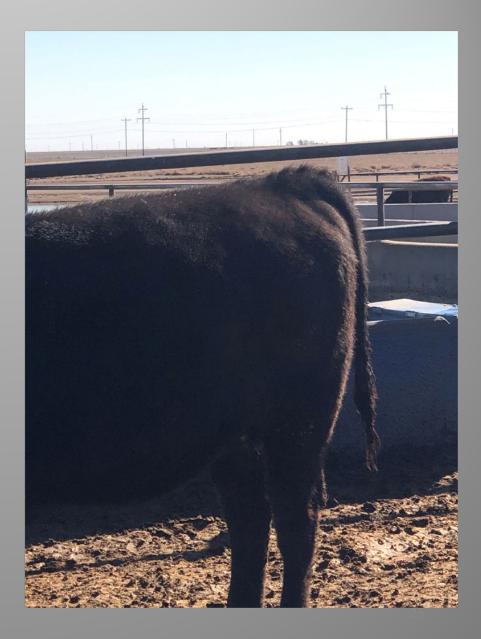














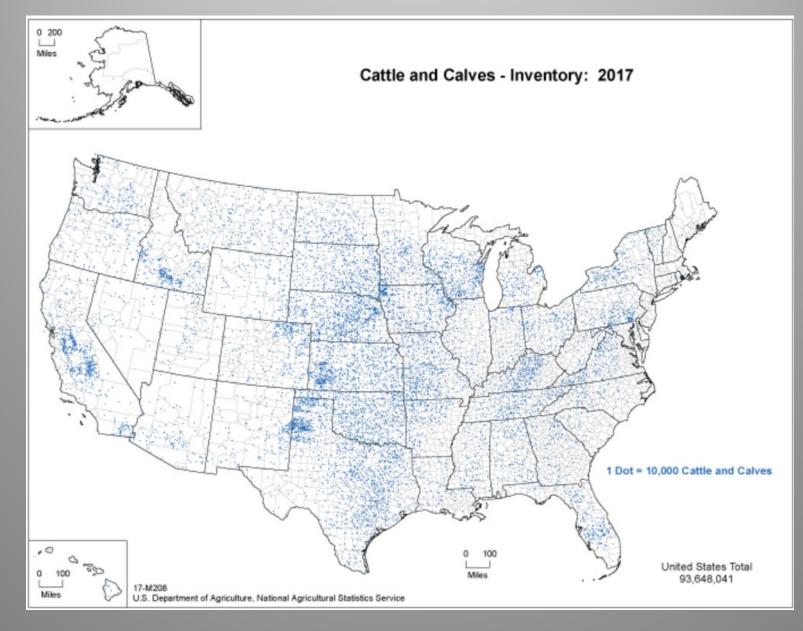


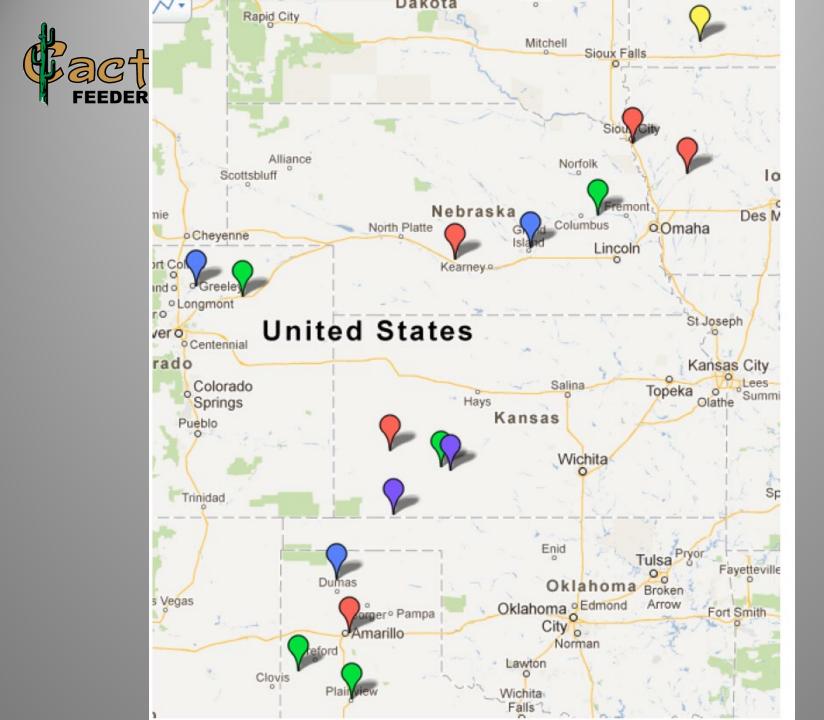


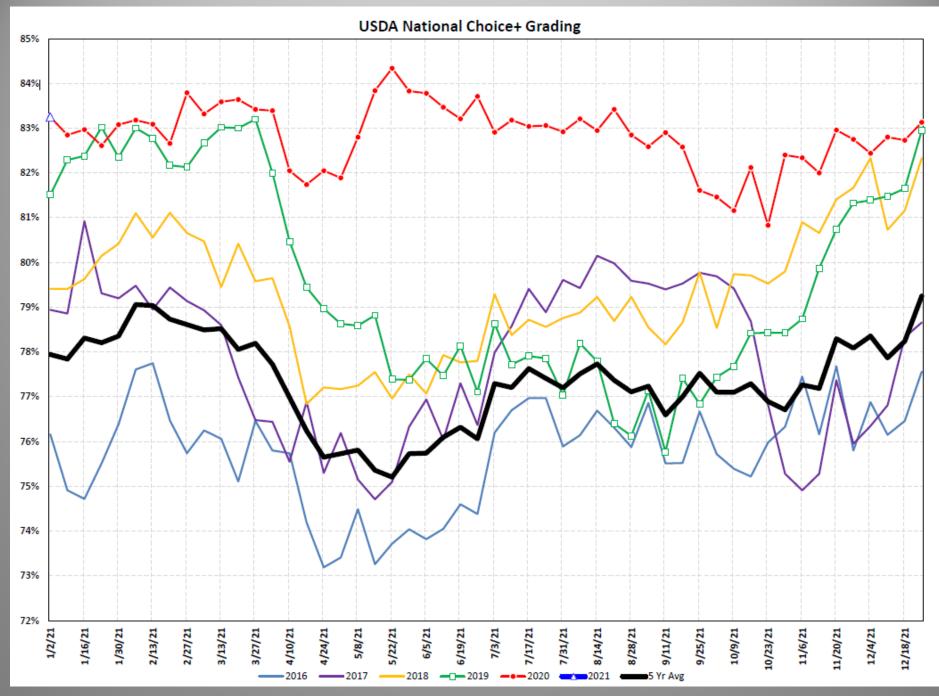






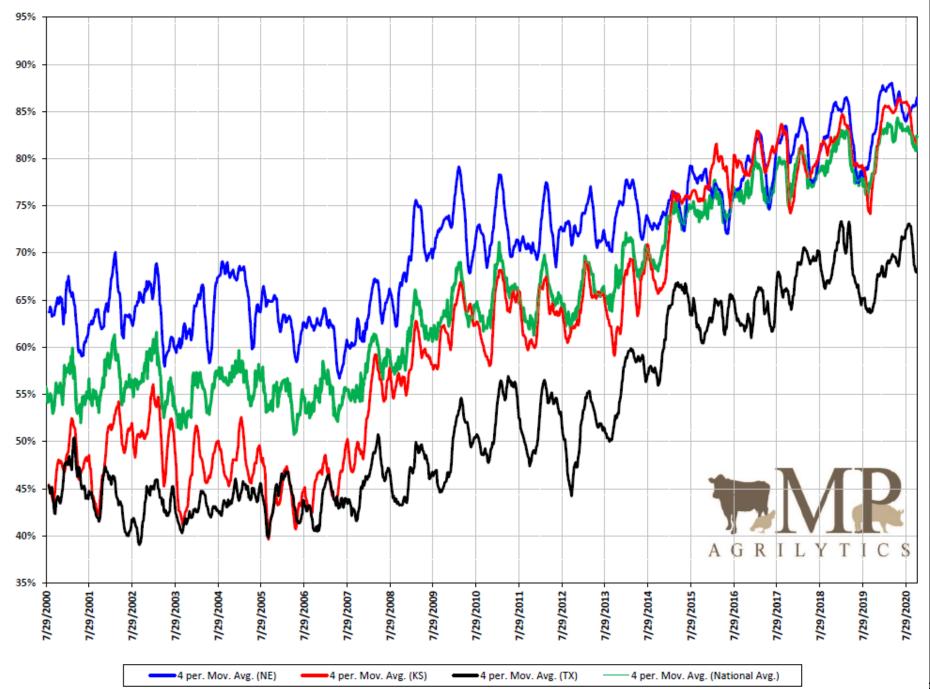






#### MP Agrilytics

#### Choice+ Grading by State





# Marketing



# **Differences in Marketing**

- Live Pricing
  - Buyer takes risk on carcass yield & quality
  - Ownership transfers when live cattle cross the scale
  - Buyer pays freight
- Carcass Pricing
  - Seller takes risk on carcass yield & quality
  - Ownership transfers when cattle are graded & value assigned
  - Seller pays freight

CONFIDENTIAL



### Can We Price a Calf at Conception?

Breed Date 11/17/2020

Calving Date 8/27/2021

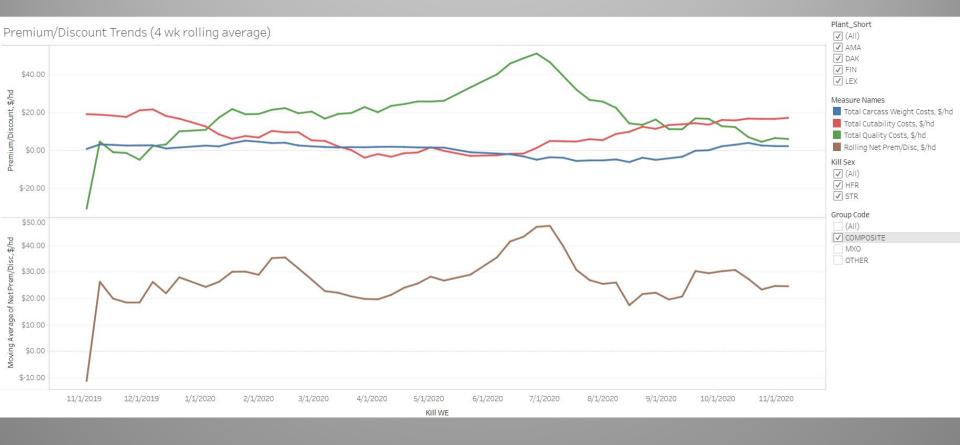
Date Coming out of Calf Ranch at 400 lbs 1/24/2022

Date to Ship Finished Steer at 1425 lbs 12/20/2022

Symbol	Last	Change	Volume
LEZ20 1	111.325s	+0.900	16101
LEG212	113.575s	+1.550	23494
LEJ21 3	117.250s	+0.900	8439
GFJ214	140.675s	+1.275	1766
LEM214	112.200s	+0.900	5302
LEQ215	111.750s	+1.025	2369
LEV216	115.100s	+1.275	849
LEZ217	117.475s	+0.900	175
LEG228	119.300s	+0.950	47
LEJ22 9	120.175s	+0.375	11

CONFIDENTIAL







# **Concluding Thoughts**

- Composites Provide Opportunity
  - Supply chain
  - Desirable quality grade
  - Middle meats fit 'ideal size'
  - Traceability
- Composite Programs have to be Managed
  - Not all dairy cross calves are equal
  - The right sires have to be used
  - Calf health & dietary management critical
  - Merits of the calves have to be validated
  - Lost efficiency in packing plant will not be tolerated

### - NOT ALL DAIRY CROSS CALVES HAVE EQUAL VALUE



