



We live in interesting & complex times... Society is asking: How can we have this? less meat for consumers at grocery stores & □restaurants with limited meat for menus □animals with no where to go & Calls for gov't to make euthanasia payments and set-aside programs, i manun □increasing meat prices, □decreasing livestock prices, & lower stock prices of processors Reflects COVID19 impact on supply chain □Bottleneck in harvesting & processing + perishability + markets having time dimensionality = our current, dynamic situation KANSAS STATE AgManager **Agricultural Economics** UNIVERSITY

Example Resources List, Since March 17th

Management and Nutritional Considerations for Growing Cattle Under COVID-19 Conditions https://www.agmanager.info/livestock-

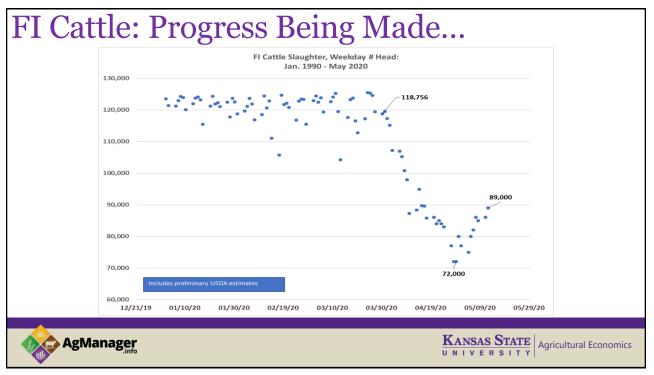
K-State Feeder Cattle Risk Management Tool https://www.agmanager.info/k-state-feeder-cattle-risk-management-tool

- > Meat Availability and Shortages Overview https://www.agmanager.info/livestock-meat/marketing-extension-bulletins/trade-and-demand/meat-availability-and-shortages
- Fed Cattle Flows Demonstrative Scenario Examples https://www.agmanager.info/livestock-meat/marketing-extension-bulletins/marketing-strategies-and-livestock-pricing/fed-cattle
- Meat Demand Monitor April 2020 https://www.agmanager.info/livestock-meat/meat-demand/monthly-meat-demand-monitor-survey-data/meat-demand-monitor-april-2020
- Recent Domestic Demand Indices https://www.agmanager.info/livestock-meat/meat-demand/monthly-domestic-meat-demand-indices-usdabls-data/recent-domestic-demand
- Recent Export Demand Indices https://www.agmanager.info/livestock-meat/meat-demand/monthly-export-beef-demand-indices-usdabls-data/recent-export-demand
- Cattle Feeding Returns-April 2020 https://www.agmanager.info/livestock-meat/cattle-finishing-historical-and-projected-returns/cattle-feeding-returns-april-2020
- Assessing Impact of Packing Plant Utilization on Livestock Prices <u>https://www.agmanager.info/livestock-meat/marketing-extension-bulletins/price-risk/assessing.impact.negling.plant.utilization</u>
- Meat Demand Monitor COVID19 Impact Special Report https://www.agmanager.info/livestock-meat/meat-demand/monthly-meat-demand-monitor-survey-
- >Cattle Industry's COVID19 Economic Damage Assessment <u>https://www.agmanager.info/livestock-meat/marketing-extension-bulletins/price-</u>risk/cattle-industry%E2%80%99s-covid19-economic-damage



KANSAS STATE UNIVERSITY Agricultural Economics





Fed Cattle Flows: "Carryovers" Continue

Week ending May 2 = 425 k FI

May 1st: 510k that "should" have been marketed in April?

04/28/2020

Kansas State University Department Of Agricultural Economics Extension Publication

Fed Cattle Flows: Demonstrative Scenario Examples

Glynn Tonsor (<u>atonsor@ksu.edu</u>) Kansas State University Department of Agricultural Economics Lee Schulz (<u>lschulz@iastate.edu</u>) Iowa State University Department of Economics

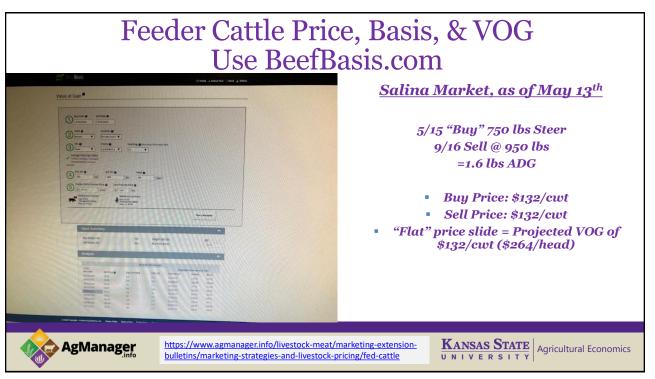
	Demonstrative	Possible June 1st, Fed Cattle Overflow Situations (1,000 hd)	
		Scenario Description	Overflow
May 22 nd – USDA Cattle	Scenario 1	450k constant week-ending 5/2 to 5/30	1,219
on Feed report	Scenario 2	425k constant week-ending 5/2 to 5/30	1,344
	Scenario 3	450k constant week-ending 5/2 to week-ending 5/9 and then 500k to 5/30	1,069
	Scenario 4	425k constant week-ending 5/2 to 5/9 and then 450k to 5/30	1,269
		anager.info/livestock-meat/marketing-extension- ng-strategies-and-livestock-pricing/fed-cattle	conomics

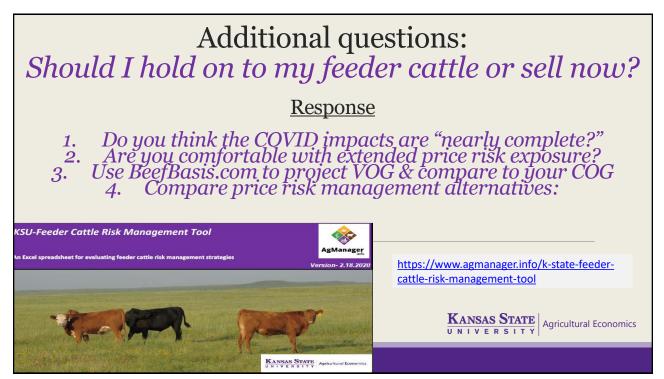
		% Chg.	Average	% Chg.	Comm'l	% Chg.
Year	Comm'l	from	Dressed	from	Beef	from
Quarter	Slaughter	Year Ago	Weight	Year Ago	Production	Year Ago
2019						
I	7,934	0.7	808.4	-1.5	6,414	-0.8
	8,573	1.7	794.8	-0.4	6,814	1.3
III	8,541	2.2	810.5	-0.6	6,923	1.5
IV	8,502	1.9	823.0	0.1	7,000	2.0
Year	33,550	1.7	809.0	-0.6	27,151	1.0
2020						
I	8,399	5.9	825.0	2.1	6,929	8.0
11	7,296	-14.9	810.0	1.9	5,910	-13.3
- 111	8,796	3.0	830.0	2.4	7,300	5.4
IV	8,460	-0.5	831.0	0.9	7,031	0.4
Year	32,952	-1.8	825.0	1.9	27,170	0.1
2021						
I	8,029	-4.4	818.0	-0.8	6,569	-5.2
	8,130	11.4	809.0	-0.1	6,579	11.3
	8,581	-2.4	825.0	-0.6	7,076	-3.1
IV	8,096	-4.3	827.0	-0.5	6,698	-4.8
Year	32,836	-0.4	820.0	-0.6	26,918	-0.9

:: Cattle (LMIC: 5/8/20)	sts: Cat	rly Forecas	Quarte		
rice	er Price	Feeder Stee	% Chg.	Live Sltr.	
lins	Plains	Southern	from	Steer Price	Year
600#	5-600#	7-800#	Year Ago	5-Mkt Avg	Quarter
					2019
USDA Reported, Week-ending N	171.41	142.87	-0.3	125.27	I
167.22	167.22	143.23	1.8	118.79	П
157	157	144	-2.4	108	III
158 KS Fed (Live Steers): \$108	158	148	-0.4	115	IV
• {low of \$99.04 last week of A	163	145	-0.3	117	Year
					2020
Low volumes reflecting FI	166.38	138.90	-6.6	118.27	I
)-153	150-153	120-123	-15.4	99-102	П
KS Feeders: "Uneven; up to \$14 h	155-159	126-130	-2.5	103-108	Ш
1-165	160-165	135-140	4.0	117-122	IV
• 740 lbs @ \$126	157-161	131-134	-5.8	109-111	Year
• 920 lbs @ \$111					2021
	168-174	142-148	3.6	120-125	I
)-177	170-177	145-152	23.4	121-127	П
7-175	167-175	151-160	11.4	114-121	ш
7-176	167-176	153-163	1.3	117-125	IV
<mark>)-173 -</mark>	169-173	150-154	9.5	119-122	Year



KANSAS STATE





Mec	tt 1	Flow Alt	ered – A	ctual	ly Likely Up	in 202	o (Use '	"shortage" care
	2020	Commercial Beef	Per Capita Beef	Carcass	Commercial Pork	Per Capita Pork	Carcass	
LMIC As of 3/31	2020	Prod (mil lbs)	Cons. (lbs)	Wt (lbs)	Prod (mil lbs)	Cons. (Ibs)	Wt (lbs)	
	Q1	6,842	14.5	822	7,386	13.4	215	
	Q2	6,969	14.7	811	6,891	12.5	215	
	Q3	6,937	14.3	824	6,939	12.7	210	
	Q4	6,918	14.3	827	7,698	13.8	214	
	Year	27,666	57.8	821	28,914	52.4	214	
		Commencial Deaf	Dan Canita Danf	C	Common and Doub	Dan Canita Dank	Carcass	
LMIC As of 4/28	2020	Commercial Beef Prod (mil Ibs)	Per Capita Beef Cons. (Ibs)	Carcass Wt (lbs)	Commercial Pork Prod (mil Ibs)	Cons. (lbs)	Wt (lbs)	
	Q1	6,929	14.7	825	7,426	13.3	215	
	Q2	6,447	13.7	815	6,910	12.7	216	
	Q3	7,319	14.6	832	6,981	12.8	211	
	Q4	7,186	14.9	833	7,665	13.7	215	
	Year	27,881	57.9	827	28,982	52.5	214	
6 Change vs Last	Year:	0.78%	0.17%	0.73%	0.24%	0.19%	0.00%	

Final Remarks

AgManager

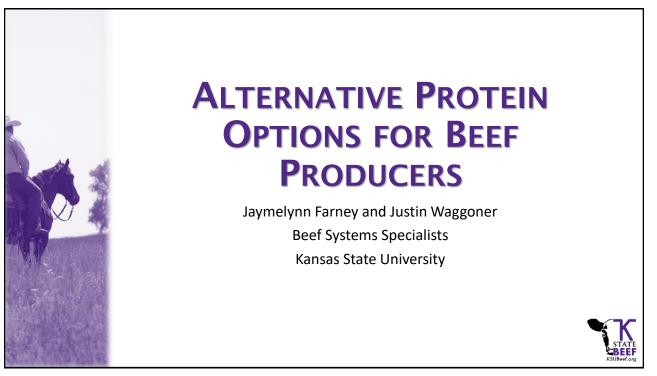
- Main economic impact to-date is on production sector
- Efforts to "solve the problem" must be approached with caution!
 - > Delicate balance: peace-time system efficiency with crisis-time resiliency/survival
 - Keep comparative advantages in mind!
 Global competitiveness at stake = long-term econ consequences



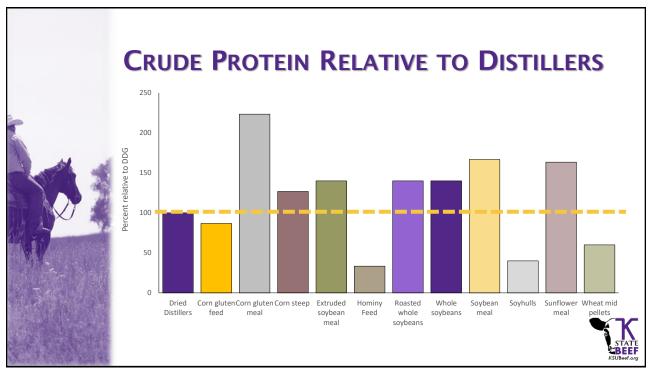


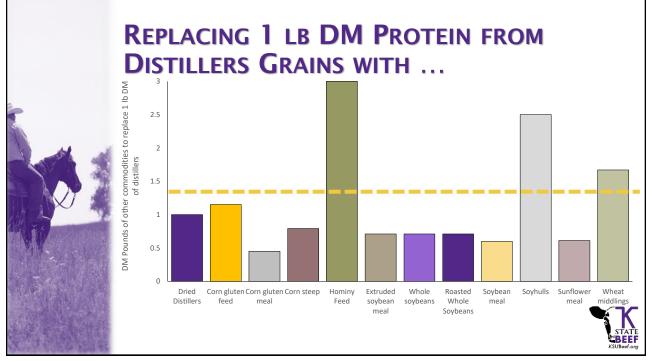
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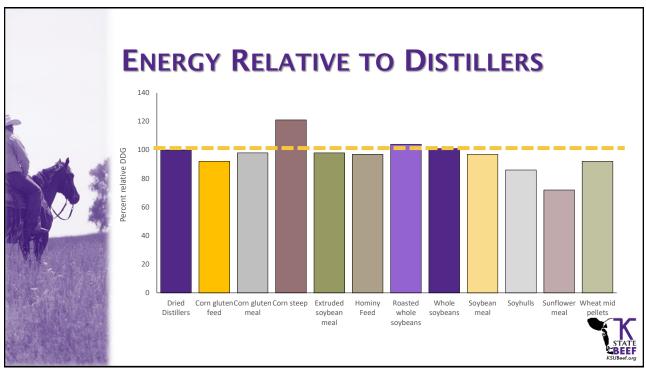
KANSAS STATE UNIVERSITY

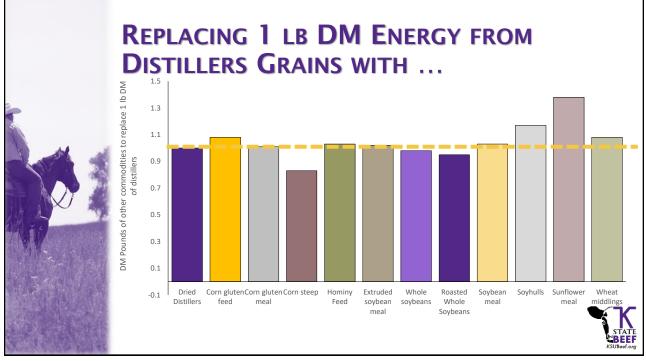












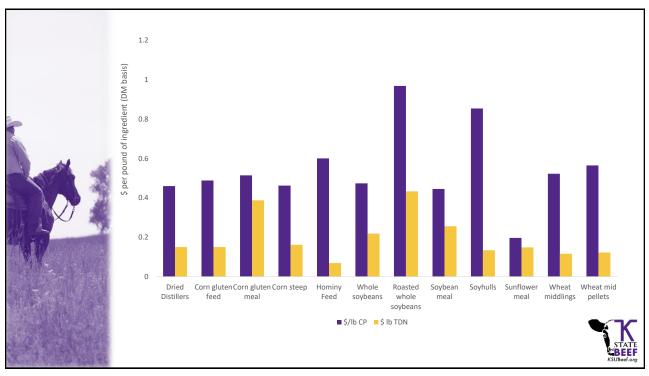


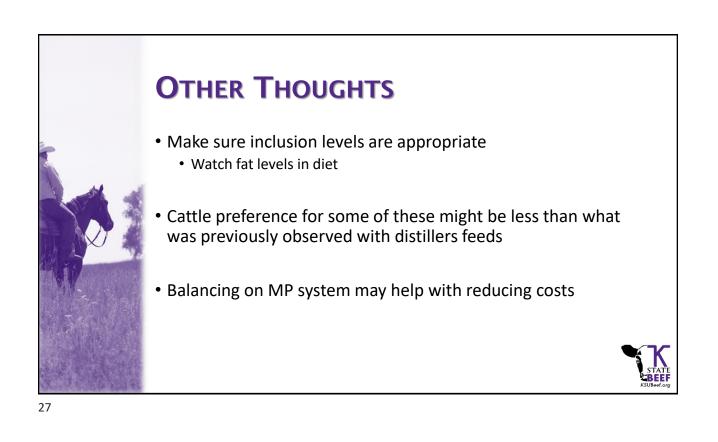
	EVALUATE	BASED	ON	COST	/xx	DM
--	-----------------	-------	----	------	-----	----

• Use distillers as protein or as an energy in ration

	A	В	С	D	E	F	G	H	
1	Feed	Cost/ton	Cost/lb	DM%	CP%	TDN%	Cost/ Ib CP DI	/ Cost/lb TD	N DM
2	Corn gluten feed	\$ 225.00	\$ 0.11	90%	26%	83%	\$ 0.49	\$	0.15
3	Corn gluten meal	\$ 620.00	\$ 0.31	90%	67%	89%	\$ 0.5	\$	0.39
4	Corn steep	\$ 200.00	\$ 0.10	57%	38%	109%	\$ 0.40	5 \$	0.16
5	Hominy Feed	\$ 108.00	\$ 0.05	90%	10%	87%	\$ 0.60) \$	0.07
6	Extruded soybean meal		\$-	90%	42%	88%	\$ -	\$	-
7	Whole soybeans	\$ 350.00	\$ 0.18	88%	42%	91%	\$ 0.4	7 \$	0.22
8	Roasted whole soybeans	\$ 740.00	\$ 0.37	91%	42%	94%	\$ 0.9	7 \$	0.43
9	Soybean meal	\$ 392.00	\$ 0.20	88%	50%	87%	\$ 0.4	5\$	0.26
10	Soyhulls	\$ 188.00	\$ 0.09	91%	12%	77%	\$ 0.8	5\$	0.13
11	Sunflower meal	\$ 177.50	\$ 0.09	92%	49%	65%	\$ 0.20) \$	0.15
12	Wheat middlings	\$ 175.00	\$ 0.09	91%	18%	83%	\$ 0.52	2 \$	0.12
13	Wheat mid pellets	\$ 185.00	\$ 0.09	91%	18%	83%	\$ 0.50	5\$	0.12 '
14	Dried Distillers	\$ 250.00	\$ 0.13	90%	30%	90%	\$ 0.40	5\$	0.15
45	1							1	



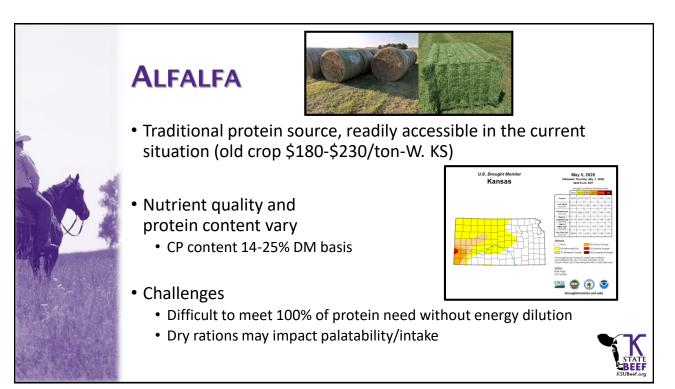


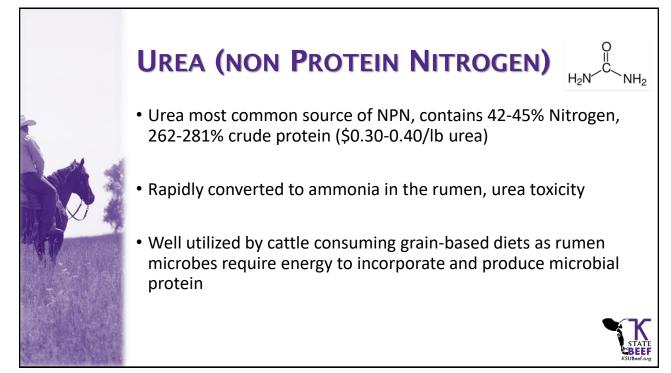


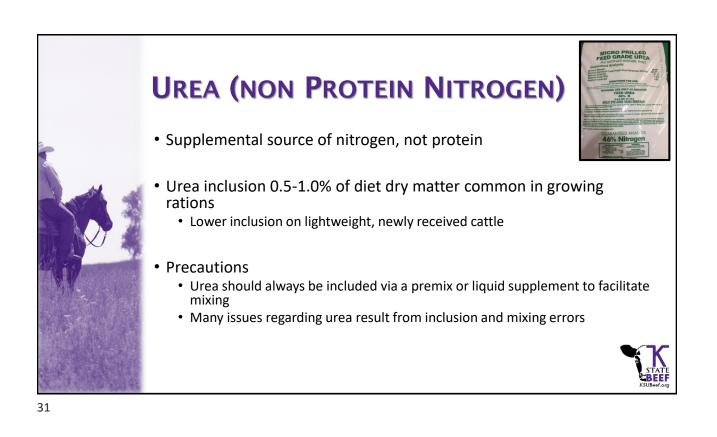


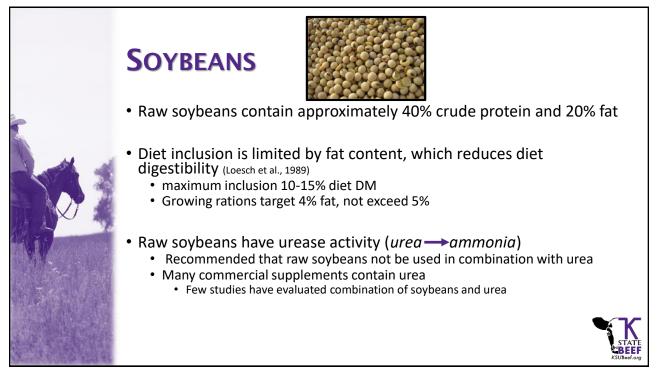
Justin Waggoner Department of Animal Sciences & Industry Southwest Research & Extension Center, Garden City KS Kansas State University

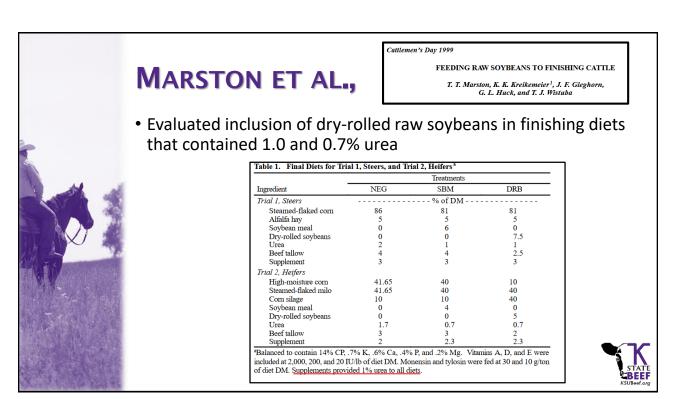














MARSTON ET AL.,

Cattlemen's Day 1999

FEEDING RAW SOYBEANS TO FINISHING CATTLE

T. T. Marston, K. K. Kreikemeier¹, J. F. Gleghorn, G. L. Huck, and T. J. Wistuba

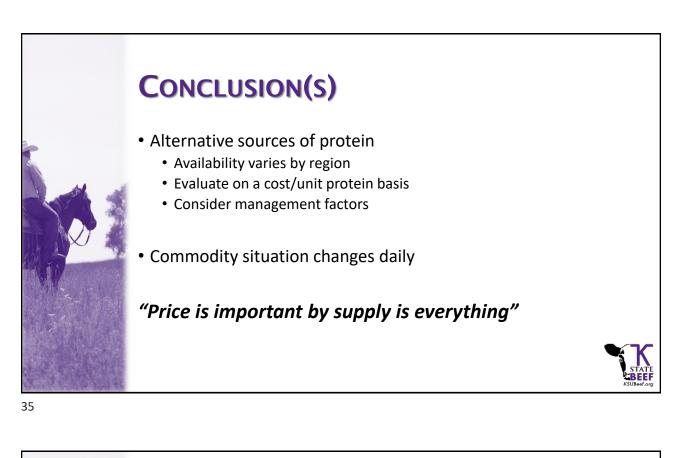
Table 2. Treatment Effects of Fi	nishing Trial 1	, Steers		
		Treatments		-
Item	NEG	SBM	DRB	P value
Feeding traits				
Average daily gain, lb	3.10	3.23	3.13	.23
Daily dry matter intake, lb	23.2	24.1	23.6	.10
Feed:gain	7.48	7.45	7.56	.84

Table 3. Treatment Effects of Finishing Trial 2, Heifers

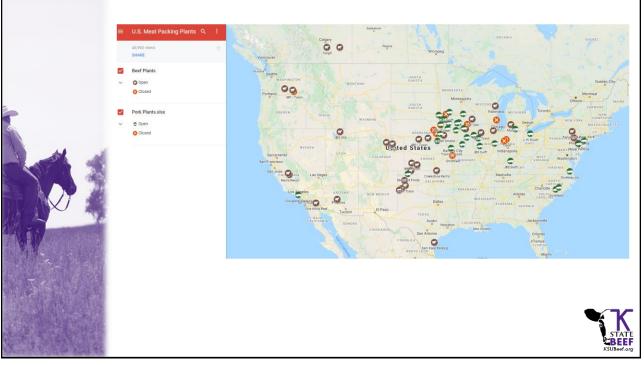
		Treatments		
Item	NEG	SBM	DRB	P value
Feeding traits		-	-	-
Average daily gain, lb	2.84	3.07	3.01	.11
Daily dry matter intake, lb	17.0	17.7	17.8	.06
Feed:gain	6.00	5.78	5.94	.46

Raw soybeans were fed at 7.5% diet with 1.0% urea without negatively impacting finishing performance, but **caution should be used if urea is included in supplements**!

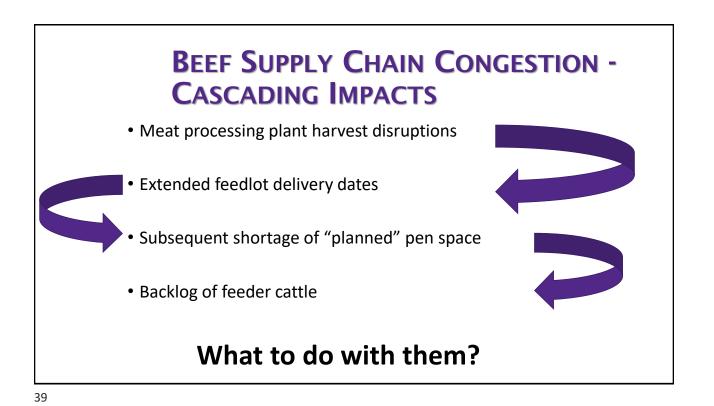


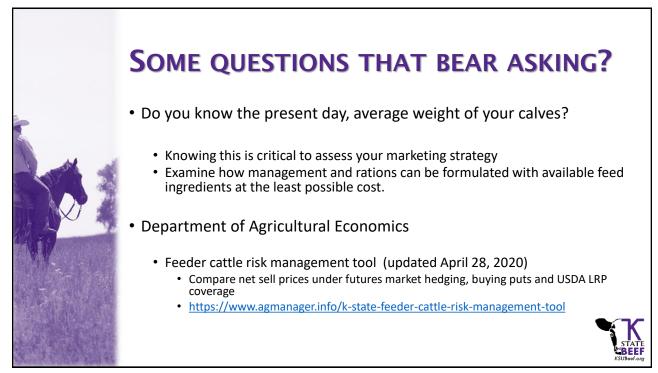


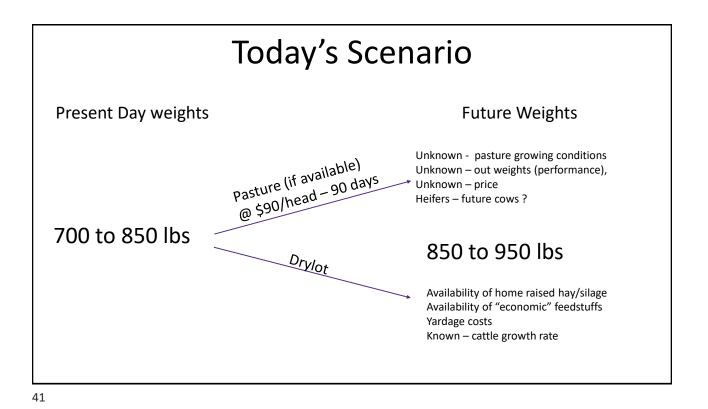












GROWING CATTLE MANAGEMENT & NUTRITION

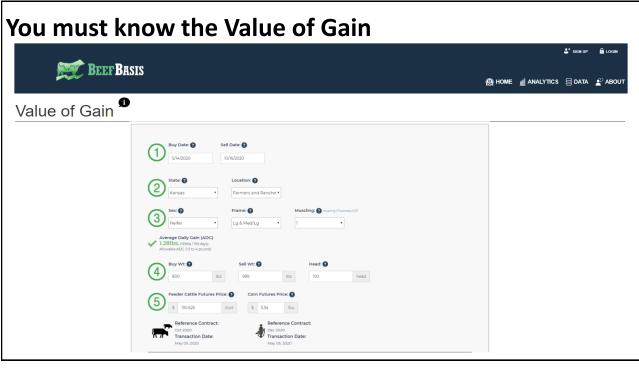
- Home raised forages Do you have a <u>good</u> estimate of existing inventory for an extended feeding period of 1 to even 4 months?
 - Do you have a recent nutrient analysis that represents what you have to feed?
- Anticipate higher new crop forage prices This will have a large impact on COG with diets formulated with higher % of roughages included in the diet.



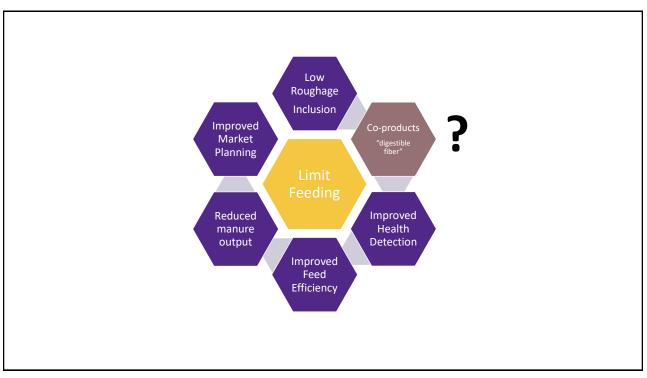
By	-Product Feed Pi	rice Listi	ing	
	April 30, 2020)		_
Company Name & Address	Feed	Price/Ton	Price Quote Notes	
5 ADM 540 South Street	Wheat midds	\$140.00	4/30/2020 FOB Arkansas City KS	
Lincoln, NE 68501 Tom KC/Ark City/Minneapolis-Lloyd Lincoln	Wheat midds Wheat midds	\$170.00 \$145.00	FOB Lincoln FOB Minneapolis MN All quotes bulk \$140-150	
Tom/Lexi 866-268-6196	Wheat midds, pelleted	\$155.00	FOB Arkansas City KS (limited supply)	
10 CyberAg Feed Co., Inc. Box 12707 N. Kansas City, MO 64116 Ann Shippee	Cottonseed hulls, sacked	\$245.00	4/2/2020 FOB Jonestown MS (45s) (\$220 Apr-Sep)	
1-800-892-5859 ann.cyberag@gmail.com	Cottonseed Pellets	\$150.00		
11 Diversified Ingredients 143 W. Clinton Place	Alfalfa pellets	\$225.00	1/16/2020 FOB St Louis MO	
St. Louis, MO 63122 Greg McArthur 636-200-9024/Cell 314-650-9772	Cereal Tailings Rice Bran	call call	FOB Perryville MO FOB St Louis MO (BAGGED Call)	
636-200-9099 gmcarthur@diversifiedingredients.com	Rice Hulls	\$65.00	FOB St Louis MO	
15 Livestock Nutrition Center - LNC	DDG Pellets	\$258.00	4/30/2020 FOB KC MO, only spot available	

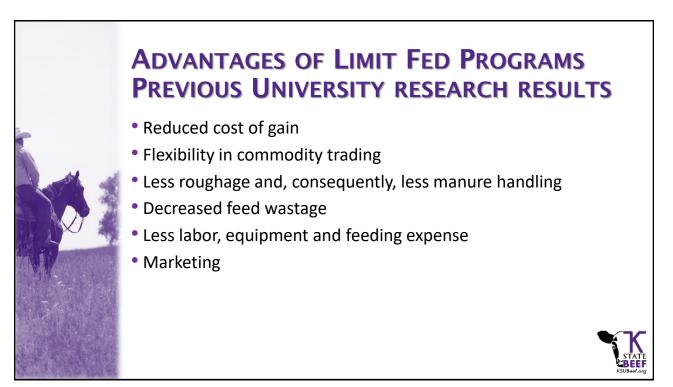
Feed Cost	FEED COST COMPA	RISON		
Natural Feeding Share Lease Creep Feed	This tool helps producers e information is available on		e costs of two different fee	edstuffs. Additional
	Feedstuff #1		Feedstuff #2	
	Preset		Preset	
	Distillers Grain, Corn, Wet	Ŧ	Wheat Middlings	Ŧ
	Cost of Feed	\$ / Unit	Cost of Feed	\$ / Unit
	Size of Unit		Size of Unit	
	2000	Ibs	2000	Ibs
	Trucking Cost per Mile		Trucking cost per mile	
	4	S	4	\$
	Number of Miles		Number of Miles	
	300	miles	170	miles
	Tons per Load		Tons per Load	
	25	tons	25	tons
	Dry Matter		Dry Matter	
	36	%	89	%

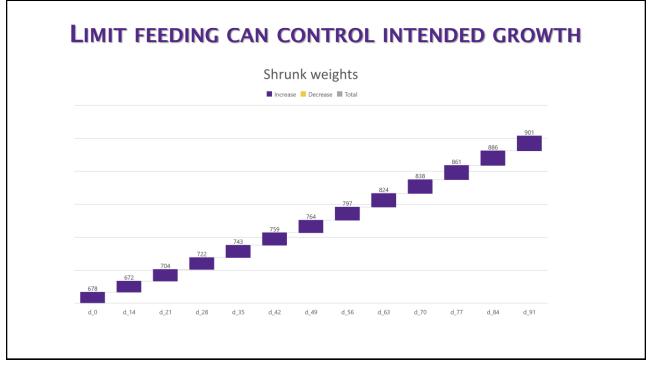
	Distillers Grain, Corn, Wet	Wheat Middlings	Max Price for Wheat Middlings
Feed Cost per Ton (As Fed)	\$80.00	\$160.00	
Shipping Cost per Load	\$1,200.00	\$680.00	
Shipping Cost per Ton	\$48.00	\$27.20	
Total Cost per Ton As Fed Delivered	\$128.00	\$187.20	
Delivered Cost per Ton DM	\$355.56	\$210.34	
Delivered Cost of Crude Protein (\$/ton)	\$1,226.05	\$1,168.54	\$169.21
Delivered Cost of TDN (\$/ton)	\$352.04	\$262.92	\$223.45
Delivered Cost of NE m (\$/Mcal/ton)	\$309.18	\$244.58	\$209.45
Delivered Cost of NE g (\$/Mcal/ton)	\$461.76	\$375.60	\$202.94
Delivered Cost of NE I (\$/Mcal/ton)	\$329.22	\$253.42	\$215.99
The highlighted cell is the better buy for that ingredient.			
			ОК

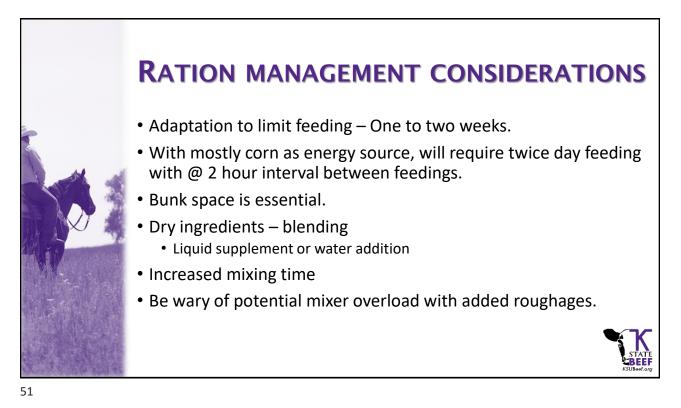


	ſ	Value of	fgain	- analy	sis		
🕈 BEEF BASI	S						💄 🕈 SIGN UP 🔒 LC
 ·						ANALY	TICS 🗟 DATA 🔮 A
f Gain [®]							
Gain							
Analysis						•	
		Valu	e of Gain Analysis				
<u>Chart</u>				Proje	cted Gross Value of	Gain	
Sell Date	Sell Price ?	Days on Feed	ADG, lbs	Total Return	\$/Head	\$/cwt	
09/20/2020	123.32	129	1.54	31,076.00	310.76	156.16	
09/26/2020	123.62	135	1.47	31,377.00	313.77	157.67	
10/02/2020	123.65	141	1.41	31,411.00	314.11	157.85	
10/09/2020	123.48	148	1.34	31,241.00	312.41	156.99	
10/16/2020	123.23	155	1.28	30,990.00	309.90	155.73	
10/24/2020	123.49	163	1.22	31,247.00	312.47	157.02	
11/02/2020	124.70	172	1.16	32,455.00	324.55	163.09	
11/12/2020	125.01	182	1.09	32,766.00	327.66	164.65	





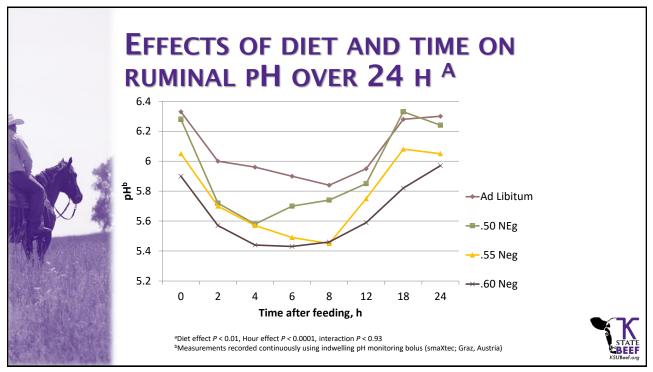


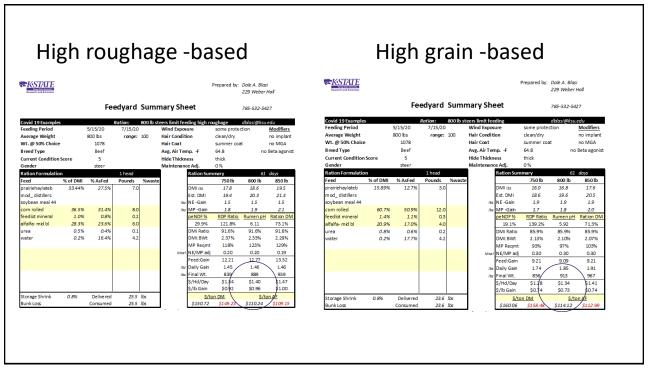




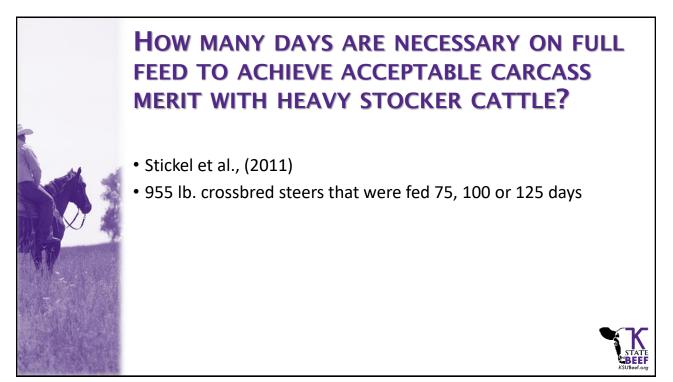










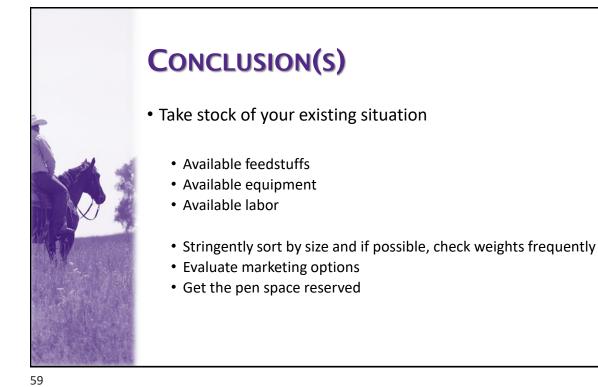


Trait	Days on feed			
	75	100	125	SEM
Average daily gain, lb	3.42	3.52	3.37	0.110
Average daily dry matter intake, lb	27.67	27.30	27.82	0.471
Gain:feed ratio	0.125	0.128	0.120	0.005
Total gain, lb	257.7*	354.4 ^b	419.1°	11.23

Table 2. Carcass characteristics and composition of heavy stocker cattle fed for 75, 100, or 125 days

Trait	Days on feed			
	75	100	125	SEM
Hot carcass weight, lb	704.7ª	758.6 ^b	820.9°	8.85
Dressing percentage	60.5	61.7	62.0	0.004
Yield grade	2.1	2.1	2.4	0.100
Fat thickness, in.	0.27*	0.27ª	0.35 ^b	0.022
Ribeye area, in. ²	13.05 ^a	13.71 ^{ab}	14.13 ^b	0.217
Marbling score ¹	363.6ª	407.1 ^b	409.5 ^b	11.12
Kidney, pelvic, and heart fat, %	2.08	2.07	2.36	0.100
Carcass composition				
Protein, %	17.0 ^b	16.5 ^{ab}	16.0ª	0.261
Fat, %	24.2*	25.0ª	28.9 ^b	0.554
Moisture, %	57.8 ^b	56.9b	54.0ª	0.393

¹ Marbling score: small = 400 to 499; slight = 300 to 399. ^{abc} Means within a row with different superscripts differ (P<0.05).





Please use the Question and Answer window in Zoom to post questions to our panelists.

