

# UNIVERSITY RESEARCH TRIAL DATA & KEY FINDINGS



## TRIAL 1 - OKLAHOMA STATE UNIVERSITY ————— BESSIE, OK

The 2019 and 2020 trials at Bessie were designed to test the difference in cattle performance when supplementing distillers cubes all summer versus late summer only. Group 1 was fed 2.5 lbs/day at normal stocking rate, and Group 2 was fed 0.75% of bodyweight adjusted through the season with a 33% increase in stocking rate. Feedlot and carcass data were collected in 2020 only.

2019	GROUP 1 - SUPPLEMENTED IN LATE SUMMER ONLY - NORMAL STOCKING RATE						
	GROUP 2 - SUPPLEMENTED FULL TIME ON GRASS - INCREASED STOCKING RATE						
GRAZING DATA	IN WT	END WT	DAYS ON GRASS	ADG EARLY SUMMER	ADG LATE SUMMER	ADG TOTAL	BW GAIN/ACRE
GROUP 1	533	770	130	1.76	2.58	2.06	39.6
GROUP 2	526	849	130	2.72	2.30	2.50	80.8

2020	ALL GROUPS SAME AS 2019 TRIALS						
	GRAZING DATA	IN WT	END WT	DAYS ON GRASS	ADG EARLY SUMMER	ADG LATE SUMMER	ADG TOTAL
GROUP 1	563	817	135	1.67	2.19	1.92	42.5
GROUP 2	564	859	135	2.33	2.19	2.34	74

FEEDLOT DATA	AVG IN WEIGHT	AVG DAYS ON FEED	AVG DAILY GAIN	CONVERSION	CONSUMPTION
GROUP 1	803	193	3.32	6.71	2.75%
GROUP 2	853	165	3.4	6.4	2.78%

CARCASS DATA	AVG LIVE WEIGHT	PRIME	CHOICE	SELECT	OTHER	CAB
GROUP 1	1453	0.0%	64.9%	32.21%	2.89%	11.53%
GROUP 2	1424	0.0%	72.37%	26.25%	1.38%	18.53%
	HOT CARCASS YIELD	YG 1	YG 2	YG 3	YG 4	YG 5
GROUP 1	63.77%	16.97%	44.76%	34.88%	3.39%	0%
GROUP 2	64.50%	17.41%	37.87%	38.71%	6.01%	0%

ULTRASOUND OFF GRASS	WEIGHT	STRESS SCORE	REA	REA/CWT	%IMF	PRIME	CHOICE	SELECT	STANDARD
GROUP 1	813	0.67	9.33	1.15	3.41	0%	75%	15%	10%
GROUP 2	860	0.62	9.73	1.12	3.29	0%	77%	19%	4%

ULTRASOUND AT REIMPLANT	WEIGHT	STRESS SCORE	REA	REA/CWT	%IMF	PRIME	CHOICE	SELECT	STANDARD
GROUP 1	1174	--	12.71	1.09	4.99	6%	92%	2%	0%
GROUP 2	1223	--	13.35	1.10	4.64	3%	92%	4%	1%

## KEY FINDINGS

### GAINS ON GRASS

Cattle fed all season averaged 0.5 lb. increase in gain and doubled gain per acre, even with increased stocking rate.

### FEEDLOT PERFORMANCE

Group 2 cattle had higher daily gains, converted more efficiently and took fewer days to finish than Group 1 cattle.

### CARCASS QUALITY

Ultrasound data showed Group 2 had lower stress scores, more intramuscular fat and larger ribeye area than Group 1. Group 2 also had a higher percentage grade Choice.