

Cattle Feeding Benchmark Data: Fall & Winter 2018 Spring & Summer 2019

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Garland Dahlke, Iowa Beef Center, Iowa State University

Summary and Implications

A summary of closeouts collected by the Iowa State University Feedlot Monitor software from the fall of 2018 through the summer of 2019 is provided on feedlot heifers, steers, mixed pens, white fat cull cows, dairy beef and preconditioning cattle when numbers on these groups were adequate.

Introduction

Cattle closeouts from the latter half of the winter of 2018-2019 took a strong hit in performance due to severe, persistent, winter weather that moved in during late January through March. The wet spring also seemed to bring on a slight reduction in performance as well, but the fairly mild temperatures during the summer tended to improve performance when compared to past years. Ration costs have trended upward throughout this time, but breakeven values tended to bounce around primarily to adjustments made in feeder calf purchase values to compensate for the feed cost movement.

Materials and Methods

Closeout data from cattle pens finished from the fall of 2018 through the summer of 2019 are included in this report. These closeouts were generated by users of the Iowa State University Feedlot Monitor Program and are reported by season of the year. Most participants are located in the Midwest with the primary concentration being located in Midwest and Northwest. Data providers receive the summarized data within a month of the season's close. These data are then published annually in the Iowa State University Animal Industry Report by the Iowa Beef Center in the following tables. These data can be used by participants as benchmarks for their own operation or as they see fit. The entire year's data for all participants are provided at this time in this report.

Results and Discussion

Seasonal closeout reports provided to participants for those who contribute closeout data are delivered at the time of seasonal summary. These summaries are shown here. Fall of 2018 (Sept. 22, 2018 through Dec. 21, 2018) was missing in the summary that follows due to file server problems that arose; however, winter of 2018 (Dec. 22, 2018 through March 21, 2019), spring of 2019 (March 22, 2019 through June 22, 2019) and summer of 2019 (June 23, 2019 through Sept. 22, 2019) were provided as follows:

Iowa State University Animal Industry Report 2020



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Feedlot Monitor Benchmark Report

Finished Winter 2018-2019
12/21/18 3/21/19

	Heifers		White Fat Cows		Steers		Dairy Steers		Background/Hef Dev	
	Average	St.Deviation	Average	St.Deviation	Average	St.Deviation	Average	St.Deviation	Average	St.Deviation
Pens	7		4		36		*		11	
Pen Size	121.3	36.4	51.0	16.1	183.2	96.3			69.5	52.6
In Pay Wt (lb)	864.9	265.4	1209.5	90.7	862.9	118.4			524.4	160.1
Out Pay Wt (lb)	1310.1	82.9	1446.3	25.9	1485.2	97.1			691.5	190.5
% Dead	1.2	1.6	4.6	4.2	1.1	1.1			0.3	0.5
Carcass Yield %	61.0	2.1	55.9	2.6	62.7	1.4				
Days Fed	192.5	27.8	121.4	14.3	191.6	48.3			78.7	53.1
ADG (lb)	2.4	1.3	1.4	0.7	3.3	0.6			2.1	0.9
F:G	12.8	10.2	26.1	12.9	8.0	1.2			8.2	3.8
DMI (lb)	25.7	3.6	30.7	2.8	25.7	3.1			14.8	4.5
AFI (lb)	40.3	6.5	48.1	3.9	38.9	5.5			23.9	7.6
NEg(avg Mcal/cwt)	58.4	2.1	57.3	1.3	60.3	2.7			52.3	4.5
\$/lb gain Feed	\$0.59	\$0.06	\$1.16	\$0.59	\$0.60	\$0.06			\$0.45	\$0.21
\$/lb gain Total	\$0.82	\$0.17	\$2.49	\$1.01	\$0.79	\$0.14			\$0.87	\$0.40
\$/Ton Feed DM	\$110.00	\$23.61	\$66.51	\$6.61	\$127.08	\$13.31			\$66.82	\$29.85
Breakeven- live	\$117.97	\$7.80	\$76.21	\$3.97	\$118.79	\$7.63			\$142.13	\$26.62

* currently too few pens or producers submitting data to report on



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Feedlot Monitor Benchmark Report

Finished spring 2019
3/22/19 6/21/19

	Heifers		White Fat Cows		Steers		Dairy Steers		Background/Hef Dev	
	Average	St.Deviation	Average	St.Deviation	Average	St.Deviation	Average	St.Deviation	Average	St.Deviation
Pens	6		*		43		*		8	
Pen Size	177.8	133.9			134.6	52.5			129.5	114.5
In Pay Wt (lb)	711.8	158.0			870.2	82.4			472.8	115.1
Out Pay Wt (lb)	1294.7	111.6			1441.2	102.3			720.8	68.1
% Dead	1.1	1.5			1.3	1.7			2.0	2.4
Carcass Yield %	59.8				61.6	11.9				
Days Fed	196.9	55.6			190.7	39.7			100.0	58.1
ADG (lb)	3.1	1.0			2.9	0.6			2.5	0.5
F:G	7.7	1.6			8.7	1.9			7.4	0.8
DMI (lb)	22.9	3.3			24.7	2.0			18.3	2.4
AFI (lb)	36.4	4.2			36.1	3.4			28.6	3.1
NEg(avg Mcal/cwt)	59.2	1.7			59.9	2.0			56.8	4.7
\$/lb gain Feed	\$0.63	\$0.04			\$0.67	\$0.15			\$0.44	\$0.08
\$/lb gain Total	\$0.82	\$0.09			\$0.88	\$0.20			\$0.77	\$0.12
\$/Ton Feed DM	\$144.96	\$24.90			\$128.16	\$10.69			\$88.71	\$24.24
Breakeven- live	\$110.53	\$32.63			\$126.42	\$7.49			\$121.37	\$22.85

* currently too few pens or producers submitting data to report on

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Feedlot Monitor Benchmark Report

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Finished summer 2019
6/22/19 9/21/19

	Heifers		Mixed Pens		Steers		Dairy Steers		Background/Hef Dev	
	Average	St.Deviation	Average	St.Deviation	Average	St.Deviation	Average	St.Deviation	Average	St.Deviation
Pens	21		5		59		*		9	
Pen Size	158.4	93.3	241.0	304.1	163.2	75.7			133.6	50.9
In Pay Wt (lb)	705.0	112.3	676.0	143.2	774.5	116.8			538.2	106.2
Out Pay Wt (lb)	1333.0	116.4	1266.0	97.4	1421.9	72.1			930.9	77.5
% Dead	1.2	1.5	2.4	0.8	1.9	2.2			0.5	0.5
Carcass Yield %	61.0	1.7	62.3	1.4	63.6	1.3				
Days Fed	209.7	38.7	213.4	90.4	203.6	39.4			137.9	39.3
ADG (lb)	2.9	0.5	2.7	0.4	3.1	0.4			2.8	0.4
F:G	7.6	1.3	8.4	2.2	7.9	1.0			7.2	0.7
DMI (lb)	21.9	2.4	22.5	2.8	23.8	2.0			20.3	2.3
AFI (lb)	34.6	4.4	32.7	5.5	37.1	3.6			30.0	5.5
NE(g avg Mcal/cwt)	59.5	1.7	58.2	3.3	59.9	1.9			50.3	3.4
\$/lb gain Feed	\$0.63	\$0.15	\$0.57	\$0.01	\$0.61	\$0.09			\$0.55	\$0.06
\$/lb gain Total	\$0.82	\$0.17	\$0.88	\$0.16	\$0.78	\$0.14			\$0.72	\$0.07
\$/Ton Feed DM	\$141.91	\$20.66	\$119.87	\$19.44	\$133.27	\$9.45			\$124.98	\$7.40
Breakeven- live	\$118.60	\$12.14	\$123.04	\$10.48	\$109.91	\$25.57			\$117.17	\$8.93

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Iowa State University Animal Industry Report 2020

Table 4. Carcass characteristics of pigs¹.

Item	Treatment ²				Sex		SEM	P-value ^{3,4}	
	NC	PC	OEE	PCA	Barrow	Gilt		Treatment	Sex
Live BW, kg ⁵	135.3	136.5	134.8	135.9	138.9	132.4	1.92	0.604	0.083
HCW, kg	99.4	100.1	99.6	99.7	102.1	97.3	1.18	0.951	<0.0001
Dressing, % ⁶	73.5	73.3	73.3	73.4	73.5	73.3	0.54	0.962	0.457
Backfat Depth, cm	1.3	1.4	1.4	1.4	1.5	1.3	0.07	0.430	<0.0001
Loin Depth, cm	7.5	7.4	7.5	7.5	7.4	7.6	0.11	0.644	0.007
Lean, % ⁷	57.6	57.3	57.4	57.4	56.9	57.9	0.27	0.616	<0.0001

¹ Data are least square means; n = 15 pens per treatment with 5 pigs per pen, totaling 298 pigs; sexes were split with 8 pens of barrows and 7 pens of gilts per treatment.

² NC: negative control, containing no feed additive; PC: NC with phytogetic compounds; OEE: NC with oregano essential oil; PCA: NC with phytogetic compounds and acidifiers.

³ HCW was used as a covariate for backfat depth, loin depth, and lean percent.

⁴ There were no significant treatment × sex interactions.

⁵ Pigs were harvested in 3 cuts; pigs were marketed based on individual BW rather than average pen BW; final live BW of pigs was averaged for pens.

⁶ Dressing percentage = $(\text{HCW} \div \text{live BW}) \times 100$

⁷ Lean percent was calculated using backfat depth and loin depth measurements based on Tyson Fresh Meat's (Perry, IA) proprietary equation.