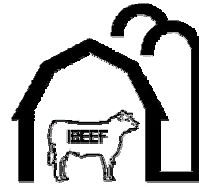
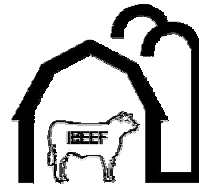


2001 Spring Indiana Beef Evaluation and Economics Feeding Program

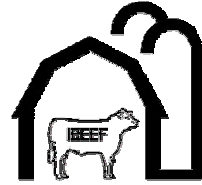


IBEEF Description



IBEEF is a steer and heifer feedout program that provides Indiana producers with a way to place cattle on feed and gather performance, carcass, and economic information to make genetic and management improvements in their herd. Cooperators receive individual and group feedlot performance, feedlot costs, and individual and group carcass information, including quality and yield grade, ribeye area, fat thickness, carcass weight, etc. IBEEF also allows producers to compare sires, as well as evaluate alternative marketing strategies and their impact upon profitability. The program also helps to improve the reputation of producer cattle by establishing a database of feedlot performance and carcass merit on their calves.

2001 Spring IBEEF Overview



- ❖ 6 Cooperators
- ❖ 58 Steers and 24 Heifers
 - 5-21 head/cooperator
- ❖ Weaned at least 30 days before delivery
- ❖ Delivered May 18, 2001

Vaccination Requirements

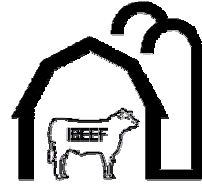


At weaning or 2 weeks prior:

- ❖ Four-way respiratory virus (IBR, BVD, PI3, and BRSV)
 - preferably killed vaccine
- ❖ Seven-way clostridial vaccine
- ❖ Haemophilus somnus vaccine
- ❖ Pasturella vaccine

Two weeks before delivery:

- ❖ Repeat four-way respiratory virus vaccine (MLV)
- ❖ Repeat Haemophilus somnus vaccine



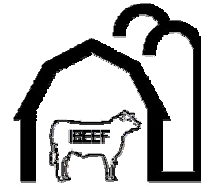
Silver Creek Feeders Council Bluffs, Iowa

2001 Spring IBEEF Participation

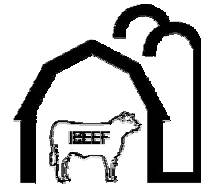


- ❖ Sire Breeds Represented: Angus, Gelbvieh, Hereford, and Simmental
- ❖ Color: Black/BWF 70%, Smoke 12%, Brown 10%, Red/RWF 7%, White 1%
- ❖ 84% sired by IBEP Test Station Bulls

Calf Value At Delivery

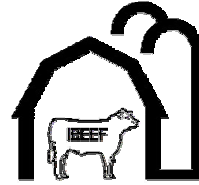


<u>Delivery Point</u> <u>Weight, lbs.</u>	<u>\$/cwt</u> <u>Steer</u>	<u>\$/cwt</u> <u>Heifer</u>
401 - 450	\$100.00	\$95.00
451 - 500	\$97.50	\$92.50
501 - 550	\$95.00	\$90.00
551 - 600	\$92.50	\$87.50
601 - 650	\$90.00	\$85.00
651 - 700	\$87.50	\$82.50
701 - 750	\$85.00	\$80.00



Steers

Steer Feedlot Performance



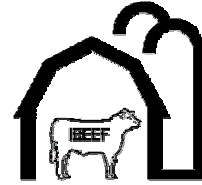
Delivery Point Weight, lbs.	601
Feedlot In Weight, lbs.	630
Harvest Weight, lbs.	1247
ADG	3.22
Days on Feed	192
Age at Harvest	443

Steer Feedlot Performance (Cooperator Average)



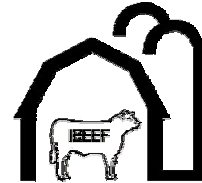
	<u>Average</u>	<u>Range</u>
Delivery Point Weight, lbs.	585	504 to 668
Initial Value at Delivery, \$/cwt	\$91.95	\$87.65 to \$95.78
Feedlot In Weight, lbs.	607	510 to 708
Sale Weight	1239	1186 to 1293
Days on Feed	197	181 to 205
Daily Gain	3.22	2.97 to 3.38

Steer Carcass Characteristics



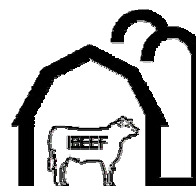
Hot Carcass Weight, lbs.	764
Ribeye Area	12.8
Backfat	0.48
Yield Grade	2.9
% YG 1 and 2	60.3
% YG 4	0.0
% Choice and Prime	50.0
% CAB	10.3

How Steers Were Sold *Base Price and Grid* *IBP, Denison, IA*



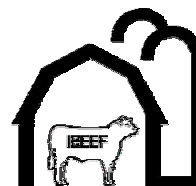
	<u>Sale Group 1</u>	<u>Sale Group 2</u>
Sale Date	11/5	12/10
Base Price	\$108.52	\$107.19
Premiums:		
Yield Grade 1	\$6.50	\$6.50
Yield Grade 2	\$2.50	\$2.50
CAB	\$6.99	\$8.94
Discounts:		
Select	-\$11.75	-\$10.40

Steer Carcass Characteristics (Cooperator Average)



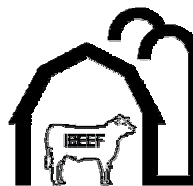
	<u>Average</u>	<u>Range</u>
Carcass Weight	757	719 to 794
Dressing %	61.1	59.9 to 61.9
Ribeye Area	12.8	12.2 to 13.6
REA/cwt carcass	1.69	1.61 to 1.76
Backfat	0.43	0.28 to 0.59
Yield Grade	2.7	2.1 to 3.2
% Choice or Prime	40.3	20.0 to 75.0
Sale Price, \$/cwt	\$103.24	\$99.63 to \$107.24
Sale Value/Hd.	\$781.92	\$720.36 to \$847.17

Steer Feeding Cost (Cooperator Average)



	<u>Average</u>	<u>Range</u>
Feed	\$209.80	\$203.64 to \$216.35
Medication	\$0.00	\$0.00 to \$0.00
Yardage	\$49.64	\$45.63 to \$51.75
Misc. (processing, trucking, data collection)	\$38.68	\$38.31 to \$39.29
Total	\$298.12	\$287.99 to \$306.76

Steers - The Bottom Line (Cooperator Average)



	<u>Average</u>	<u>Range</u>
Feed Cost of Gain, \$/cwt	\$33.37	\$29.87 to \$35.87
Nonfeed Cost of Gain, \$/cwt	\$14.09	\$13.05 to \$14.94
Total Cost of Gain, \$/cwt	\$47.46	\$42.92 to \$50.58
Profit/Head	-\$52.43	-\$104.31 to -\$6.58
Break Even Feeder Calf Value, \$/cwt	\$83.38	\$72.97 to \$92.40

Break Even Feeder Calf Value



Calculation:

$$\frac{\text{Harvest Sale Value} - \text{Feedlot Costs}}{\text{Calf Weight at Delivery}}$$

Harvest Sale Value = 757 lbs x \$103.24/cwt = \$781.53

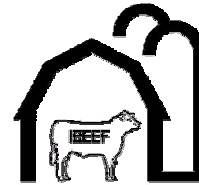
Feedlot Costs = \$298.12

Net = \$781.53 - \$298.12 = \$483.41

Calf Weight at Delivery = 585 lbs

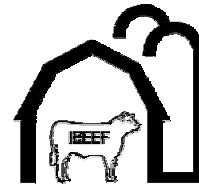
Break Even Calf Value = \$483.41/585 lbs = \$82.63/cwt

Profit Groups



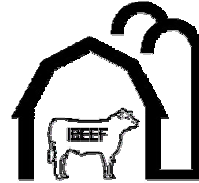
- ❖ Based on initial assigned feeder calf value at delivery, feeding costs, and harvest sale value, cattle were divided into profit group quartiles (14 or 15 steers/group)
- ❖ Profit = Sale Value - Feedlot Costs - Calf Value
- ❖ Example:
Profit = \$781.92 - \$209.80 - \$526.24 = \$45.88

Steer Profit Groups



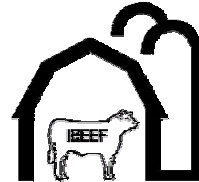
<u>Profit Group</u>	<u>No. Steers</u>	<u>Profit \$/Hd.</u>	<u>Break Even Feeder Calf Value, \$/cwt</u>
1	15	\$37.26	\$98.23
2	14	-\$29.31	\$86.49
3	14	-\$72.45	\$78.99
4	15	-\$112.58	\$72.33
<hr/>			
Average		-\$44.27	\$84.01

Differences Between High And Low Profit Groups *Feedlot Performance*



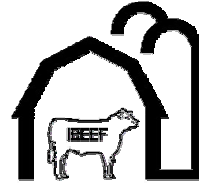
	<u>High vs. Low</u>
Delivery Point Weight, lbs.	593 vs. 612
Start Weight, lbs.	628 vs. 634
% Shrink (delivery - feedlot in)	6.01 vs. 3.49
Final Weight, lbs.	1252 vs. 1251
Feedlot Daily Gain	3.19 vs. 3.21
Medication Cost	\$0.00 vs. \$0.00
Total Feedlot Cost	\$299.31 vs. \$300.87
Cost of Gain, \$/cwt	\$48.19 vs. \$48.94

Differences Between High And Low Profit Groups *Carcass Characteristics*



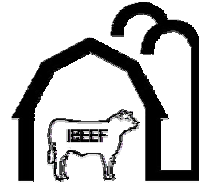
	<u>High vs. Low</u>
Hot Carcass Weight, lbs.	780 vs. 758
Ribeye Area	13.3 vs. 12.3
Backfat	0.47 vs. 0.48
% Yield Grade 4	0.0 vs. 0.0
% Yield Grade 1 and 2	66.7 vs. 53.3
% Choice or Prime	100.0 vs. 0.0
Carcass Price, \$/cwt	\$112.29 vs. \$97.95

% of Steers in Each Category
Which are in the 4 Profit Groups

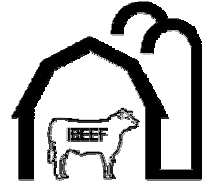


<u>Category</u>	No. <u>Steers</u>	Profit Group			
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Breed of Sire					
Angus	38	34.2	21.1	21.1	23.7
Gelbvieh	3	33.0	66.7	0.0	0.0
Hereford	10	0.0	20.0	40.0	40.0
Simmental	7	14.3	28.6	28.6	28.6

% of Steers in Each Category
Which are in the 4 Profit Groups

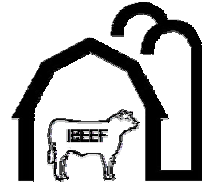


<u>Category</u>	No. <u>Steers</u>	Profit Group			
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Color					
Black	42	26.2	23.8	23.8	26.2
Other	16	25.0	25.0	25.0	25.0
IBEP Bull					
Yes	50	26.0	24.0	26.0	24.0
No	8	25.0	25.0	12.5	37.5
Sale Group					
1	22	18.2	22.7	36.4	22.7
2	36	30.6	25.0	16.7	27.8



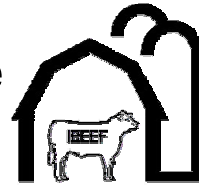
Heifers

Heifer Feedlot Performance



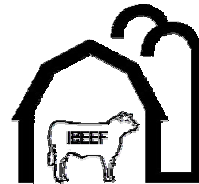
Delivery Point Weight, lbs.	593
Feedlot In Weight, lbs.	617
Harvest Weight, lbs.	1160
ADG	2.80
Days on Feed	195
Age at Harvest	443

Heifer Feedlot Performance (Cooperator Average)



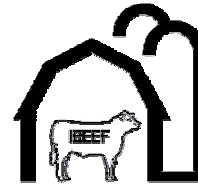
	<u>Average</u>	<u>Range</u>
Delivery Point Weight, lbs.	627	570 to 740
Initial Value at Delivery, \$/cwt	\$85.28	\$80.00 to \$87.88
Feedlot In Weight, lbs.	639	583 to 738
Sale Weight	1155	1143 to 1181
Days on Feed	190	170 to 205
Daily Gain	2.72	2.59 to 2.89

Heifer Carcass Characteristics



Hot Carcass Weight, lbs.	717
Ribeye Area	12.2
Backfat	0.52
Yield Grade	3.0
% YG 1 and 2	41.7
% YG 4	0.0
% Choice and Prime	62.5
% CAB	20.8

How Heifers Were Sold
Base Price and Grid
IBP, Denison, IA



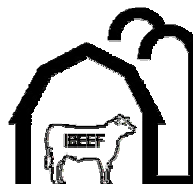
	<u>Sale Group 1</u>	<u>Sale Group 2</u>
Sale Date	11/5	12/10
Base Price	\$107.75	\$106.14
Premiums:		
Yield Grade 2	\$2.50	\$2.50
CAB	\$6.99	\$8.94
Prime		\$6.40
Discounts:		
Select	-\$11.75	-\$10.40
< 550 lbs		-\$14.61

Heifer Carcass Characteristics
 (Cooperator Average)



	<u>Average</u>	<u>Range</u>
Carcass Weight	707	695 to 732
Dressing %	61.3	59.1 to 62.1
Ribeye Area	12.0	10.7 to 12.6
REA/cwt carcass	1.70	1.54 to 1.82
Backfat	0.50	0.35 to 0.59
Yield Grade	3.0	2.4 to 3.5
% Choice or Prime	61.2	20.0 to 100.0
Sale Price, \$/cwt	\$104.10	\$98.35 to \$110.25
Sale Value/Hd.	\$736.99	\$684.46 to \$798.08

Heifer Feeding Cost (Cooperator Average)



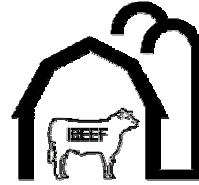
	<u>Average</u>	<u>Range</u>
Feed	\$189.89	\$181.05 to \$204.94
Medication	\$0.95	\$0.00 to \$2.04
Yardage	\$48.01	\$43.00 to \$51.75
Misc. (processing, trucking, data collection)	\$38.37	\$38.01 to \$38.90
Total	\$277.22	\$262.95 to \$294.46

Heifers - The Bottom Line (Cooperator Average)



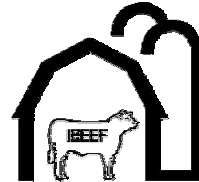
	<u>Average</u>	<u>Range</u>
Feed Cost of Gain, \$/cwt	\$37.18	\$34.06 to \$41.05
Nonfeed Cost of Gain, \$/cwt	\$17.42	\$16.06 to \$18.87
Total Cost of Gain, \$/cwt	\$54.60	\$50.24 to \$59.63
Profit/Head	-\$72.58	-\$115.91 to -\$4.13
Break Even Feeder Calf Value, \$/cwt	\$73.80	\$66.94 to \$86.65

Heifer Profit Groups



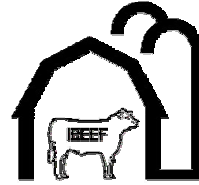
<u>Profit Group</u>	<u>No. Heifers</u>	<u>Profit \$/Hd.</u>	<u>Break Even Feeder Calf Value, \$/cwt</u>
1	6	\$38.43	\$94.16
2	6	-\$24.03	\$83.02
3	6	-\$72.44	\$73.81
4	6	-\$131.74	\$65.02
Average		-\$47.44	\$79.00

Differences Between High And Low Profit Groups *Feedlot Performance*



	<u>High vs. Low</u>
Delivery Point Weight, lbs.	580 vs. 585
Start Weight, lbs.	616 vs. 590
% Shrink (delivery - feedlot in)	6.28 vs. 1.07
Final Weight, lbs.	1185 vs. 1089
Feedlot Daily Gain	2.87 vs. 2.52
Medication Cost	\$0.00 vs. \$1.47
Total Feedlot Cost	\$300.77 vs. \$267.20
Cost of Gain, \$/cwt	\$52.97 vs. \$55.17

Differences Between High And Low Profit Groups *Carcass Characteristics*



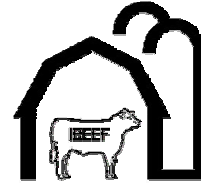
	<u>High vs. Low</u>
Hot Carcass Weight, lbs.	739 vs. 671
Ribeye Area	11.6 vs. 12.3
Backfat	0.60 vs. 0.41
% Yield Grade 4	0.0 vs. 0.0
% Yield Grade 1 and 2	0.0 vs. 83.3
% Choice or Prime	100.0 vs. 16.7
Carcass Price, \$/cwt	\$114.60 vs. \$96.33

% of Heifers in Each Category Which are in the 4 Profit Groups



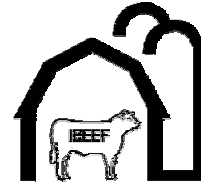
<u>Category</u>	<u>No. Heifers</u>	<u>Profit Group</u>			
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Breed of Sire					
Angus	18	33.3	27.8	22.2	16.7
Gelbvieh	2	0.0	0.0	50.0	50.0
Hereford	1	0.0	0.0	100.0	0.0
Simmental	3	0.0	33.3	0.0	66.7

% of Heifers in Each Category Which are in the 4 Profit Groups



<u>Category</u>	<u>No. Heifers</u>	<u>Profit Group</u>			
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Color					
Black	15	33.3	13.3	26.7	26.7
Other	9	11.1	44.4	22.2	22.2
IBEP Bull					
Yes	19	31.6	26.3	26.3	15.8
No	5	0.0	20.0	20.0	60.0
Sale Group					
1	7	14.3	28.6	42.9	14.3
2	17	29.4	23.5	17.6	29.4

Factors That Affect Profitability



- ❖ Health
- ❖ Feedlot Daily Gain
- ❖ Harvest Weight
- ❖ Quality Grade
- ❖ Yield Grade

IBEEF Participation



Data



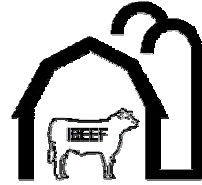
Information



Knowledge



Action



For more information
about IBEEF:



- ❖ <http://www.ansc.purdue.edu/ibeeff/>
- ❖ Kern Hendrix, Purdue University (ANSC)
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 - khendrix@purdue.edu
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 - Washington County Extension Educator
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 - byron.fagg@ces.purdue.edu