

Cost-of-Gain

- Often misused.
- Why is this?

Cost-of-Gain =

Non-Calf Costs
Lbs Added

Example:

- Buy 500 lb calf
- Sell at 800 lbs
- \$300 non-calf costs
- Sale price \$1.40/lb

COG = \$300/300 lb = \$1.00/lb

Cost-of-Gain Example:

\$1.00 (COG) < \$1.40 Sale Price

→ We can make a profit

Wrong!

Only true if no price slide

Need to compare:

Cost-of-Gain

to

Value-of-Gain (VOG)

Value-of-Gain Examples \$1.40 Sale Price		
Buy Price Calf	Value-of-Gain	
\$1.40	\$1.40	
\$1.50	\$1.23	
\$1.60 \$1.07		
\$1.70	\$0.90	
\$1.80 \$0.73		
Buy 500 lb calf and sell 800 lb calf		

Cost-of-Gain (COG) Changes by Weight

Let's look at examples

Feed Cost of Gain			
Weight	Feed Cost Last 50 lbs Gain	Feed Cost of Gain	
700	_	_	
750	\$39	\$0.78	
800	\$42	\$0.84	
850	\$45	\$0.90	
900	\$48	\$0.96	
950	\$50	\$1.00	

Total Cost of Gain

Need to add other marginal costs

- → Interest
- → Mineral, water, etc.
- → Labor to feed?

Interest (example):

\$1000 x 5% interest = \$50 per year

For 1 Day:

→ \$50/365 days = \$.14 per day

Water (example):

\$5.00 per 1000 gallons

= \$5.00/1000 gallons = \$.005/gallon

10 gallons/day/head:

 \rightarrow \$.005/gal x 10 gal = \$.05/day

Mineral (example):

\$7.50 per head for 150 days = \$7.50/150 = \$.05/day

Miscellaneous (example):

\$5.00 for 150 days = \$5.00/150 = \$.03/day

Other Cost of Gain:

Interest \$.14/day
Water \$.05/day
Mineral \$.05/day
Other \$.03/day

Total \$.27/day

Other Cost of Gain:

Interest \$.14/day
Water \$.00/day
Mineral \$.05/day
Other \$.03/day

Total \$.22/day

Other Cost of Gain

Assume \$.23/day

Convert to Pound of Gain: \rightarrow 2.3 lbs per day gain

\$.23/2.3 = \$.10 to add to Feed GOG

Total Cost of Gain			
Weight	Feed Cost Last 50 lbs Gain	Feed Cost of Gain	Total Cost of Gain
700			
750	\$39	\$0.78	\$0.88
800	\$42	\$0.84	\$0.94
850	\$45	\$0.90	\$1.00
900	\$48	\$0.96	\$1.06
950	\$50	\$1.00	\$1.10
Assumes 1.4% bodyweight corn gluten-soyhulls at \$280/ton and 1.45% bodyweight hay at \$60/ton. 2.3 lbs per day gain. Other costs of \$.23/day			

Value of Gain

Price Slide Effect

Value of Additional Gain \$4 Slide/100wt			
Weight	Sale Price	Total Revenue	Value of Gain (per lb) Last 50 lbs
700	\$1.44	\$1,008	-
750	\$1.42	\$1,065	\$1.14
800	\$1.40	\$1,120	\$1.10
850	\$1.38	\$1,173	\$1.06
900	\$1.36	\$1,224	\$1.02
950	\$1.34	\$1,273	\$0.98

Value of Gain Calculation

VOG = \$1065 - \$1008

50 lbs gain

= \$1.14

Value of Gain Calculation

VOG = \$1120 - \$1065

50 lbs gain

= \$1.10

Value of Additional Gain \$6			6 Slide/100wt
Weight	Sale Price	Total Revenue	Value of Gain (per lb) Last 50 lbs
700	\$1.46	\$1,022	-
750	\$1.43	\$1,073	\$1.02
800	\$1.40	\$1,120	\$0.94
850	\$1.37	\$1,165	\$0.90
900	\$1.34	\$1,206	\$0.82
950	\$1.31	\$1,244	\$0.76
Value of A	Value of Additional Gain = Total value (current wt)		

Value of Additional Gain = Total value (current wt) less total value (previous wt) divided by added lbs.

Value of Additional Gain \$2 Slide/100wt			
Weight	Sale Price	Total Revenue	Value of Gain (per lb) Last 50 lbs
700	\$1.42	\$994	-
750	\$1.41	\$1,058	\$1.27
800	\$1.40	\$1,120	\$1.25
850	\$1.39	\$1,182	\$1.23
900	\$1.38	\$1,242	\$1.21
950	\$1.37	\$1,302	\$1.19
Value of A	Value of Additional Gain = Total value (current wt)		

Value of Additional Gain = Total value (current wt) less total value (previous wt) divided by added lbs.

Comparing Value of Gain Cost of Gain

Deciding When to Sell Value of Gain vs. Total Cost of Gain \$4 price slide 100wt; \$1.40/lb 800 lb steer		
Value of Gain (last 50 lbs)	Total Cost of Gair (last 50 lbs)	
_	_	
\$1.14	\$0.88	
800 \$1.10 \$0.		
\$1.06	\$1.00	
\$1.02	\$1.06	
\$0.98	\$1.10	
	of Gain vs. Tota lide 100wt; \$1.4 Value of Gain (last 50 lbs) - \$1.14 \$1.10 \$1.06 \$1.02	

Deciding When to Sell Value of Gain vs. Total Cost of Gain \$3 price slide 100wt; \$1.40/lb 800 lb steer			
Weight	_	Total Cost of Gain	
	(last 50 lbs)	(last 50 lbs)	
700	_	_	
750	\$1.20	\$0.88	
800	\$1.18	\$0.94	
850	\$1.14	\$1.00	
900	\$1.12	\$1.06	
950	\$1.08 \$1.10		
Assumes 1.4% bodyweight corn gluten-soyhulls at \$280/ton and 1.45% bodyweight hay at \$75/ton. Other costs of \$.23/day			

Deciding When to Sell Value of Gain vs. Total Cost of Gain \$3 price slide 100wt; \$1.60/lb 800 lb steer			
Value of Gain (last 50 lbs)	Total Cost of Gair (last 50 lbs)		
_ _			
750 \$1.40 \$0.88			
\$1.38	\$0.94		
\$1.34	\$1.00		
\$1.32	\$1.06		
950 \$1.28			
	of Gain vs. Tota lide 100wt; \$1.6 Value of Gain (last 50 lbs) - \$1.40 \$1.38 \$1.34 \$1.32		

Deciding When to Sell Value of Gain vs. Total Cost of Gain \$4 price slide 100wt; \$1.60/lb 800 lb steer			
Weight	Value of Gain Total Cost of		
vvoigni	(last 50 lbs)	(last 50 lbs)	
700	_	_	
750	\$1.34	\$0.88	
800	\$1.30	\$0.94	
850	\$1.26	\$1.00	
900	\$1.22	\$1.06	
950	\$1.18	\$1.10	

