

The Economics of Supplementing Stocker Calves Grazing Summer Forages

In many regions of the country it is not suitable to raise any other crop but grass. Cattle, because they are ruminants, can utilize grass quite effectively as a feed source. For this reason it is common practice to use stocker calves as a means of utilizing the summer grass in these regions.

In an effort to maximize returns in grazing situations, a large number of producers supplement cattle with an additional feed source. A large variety of feeds are available for supplementation. These include grains, numerous co-products from the processing of grain, and a large assortment of commercial feeds.

In most grazing situations, the most profitable supplement is typically the one that is most efficient (cost per lb of gain). High gains are good, but they must be efficient, and they must be weighed against the probability of a lower sale price per lb. due to higher animal sale weight. Again, gains must be cost effective. Generally, the supplement that does the

best job of enhancing rumen function and improving grass utilization is the one that is most profitable.

During the summer of 2004, Murray State University in Murray, Kentucky conducted a trial to determine the profitability of different supplementation strategies on stocker calves grazing summer forages. The study results bring home the point of the importance of using a supplement with the lowest cost per lb of gain. The chart on the following page summarizes the trial results.



CONTROL	MIX 30 LIQUID FEED	MOLASSES TUB	SOYHULLS & DDG
518.89	512.94	516.22	509.94
\$1.05	\$1.05	\$1.05	\$1.05
\$544.83	\$538.59	\$542.03	\$535.44
1.11	1.31	1.28	1.77
130.00	152.69	150.22	207.62
	22.69	20.22	77.62
648.89	665.63	666.44	717.56
\$0.96	\$0.95	\$0.95	\$0.92
\$622.93	\$632.35	\$633.12	\$660.16
	\$165.00	\$776.00	\$134.50
	\$5.25	\$48.50	\$41.49
	\$0.23	\$2.40	\$0.53
\$542.00	\$414.80	\$479.60	\$542.00
\$15.49	\$19.47	\$61.39	\$70.91
\$62.61	\$74.29	\$29.70	\$53.81
	\$11.68	-\$32.91	-\$8.80
	410.58%	39.61%	172.11%
	6.62%	-17.49%	-4.71%
	\$18.89 \$1.05 \$544.83 1.11 130.00 648.89 \$0.96 \$622.93 \$542.00 \$15.49	CONTROL LIQUID FEED 518.89 512.94 \$1.05 \$1.05 \$544.83 \$538.59 1.11 1.31 130.00 152.69 22.69 648.89 665.63 \$0.96 \$0.95 \$622.93 \$632.35 \$165.00 \$5.25 \$0.23 \$414.80 \$15.49 \$19.47 \$62.61 \$74.29 \$11.68 410.58%	CONTROL LIQUID FEED TUB 518.89 512.94 516.22 \$1.05 \$1.05 \$1.05 \$544.83 \$538.59 \$542.03 1.11 1.31 1.28 130.00 152.69 150.22 22.69 20.22 648.89 665.63 666.44 \$0.96 \$0.95 \$0.95 \$622.93 \$632.35 \$633.12 \$165.00 \$776.00 \$5.25 \$48.50 \$0.23 \$2.40 \$542.00 \$414.80 \$479.60 \$15.49 \$19.47 \$61.39 \$62.61 \$74.29 \$29.70 \$11.68 -\$32.91 410.58% 39.61%

^{*}LABOR CHARGE - \$.7/HR; INTEREST CHARGE - 5.50% ON COST OF CALF, MINERAL, SUPPLEMENT, AND LABOR

Analysis: The results of this trial point out how market price, animal performance, and type of supplementation all play major roles in determining profitability. Supplementation, as this trial indicates, does not always guarantee profitability. In this trial the supplement with the lowest cost per lb. of gain was the only treatment that returned a profit over the control.



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