

SUPPLEMENTAL NUTRIVANTAGE® IN GROW-FINISH PIGS

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Developing products that can help pork producers raise healthier pigs to feed a growing population is an ongoing effort at the Kent Nutrition Group Product Development Center. NutriVantage® Nutrition Optimizer® for swine is a research-driven feed supplement designed to help animals achieve optimum nutrition from their diet. Our exclusive NutriVantage formula is made with nutritional components that consist of a blend of organic macromolecules, trace minerals, antioxidants, and chelating agents. In the following trial, we evaluated NutriVantage at three levels (1.5, 3, and 4.5 lb/ton of complete feed at an added cost of \$1.30, \$2.60 and \$3.15/ton, respectively by substituting NutriVantage for corn) in growing-finishing pigs. We utilized 1,896 pigs involving 24 replications per group. We used a five-phase program with 400 lb/ton of Distillers Dried Grains with Solubles in each diet. The overall performance data are shown below:

EFFECT OF NUTRIVANTAGE® ON OVERALL PERFORMANCE, CARCASS TRAITS, ECONOMICS IN GROW-FINISH PIGS

	2	3	4
-	1.5	3	4.5
474	474	474	474
24	24	24	24
249.4	248.9	253.7	250.5
1.823	1.819	1.862	1.833
4.761	4.724	4.830	4.738
2.610	2.597	2.592	2.583
21.00	21.04	21.12	21.19
59.19	58.92	60.07	58.90
69.40	69.10	70.50	69.16
79.61	79.29	80.93	79.42
89.82	89.47	91.35	89.68
100.03	99.65	101.78	99.94
110.24	109.84	112.21	110.20
57.18	57.24	57.29	57.33
75.43	75.33	74.85	75.23
5.47	5.34	5.64	5.48
	474 24 249.4 1.823 4.761 2.610 21.00 59.19 69.40 79.61 89.82 100.03 110.24 57.18 75.43	474 474 24 24 249.4 248.9 1.823 1.819 4.761 4.724 2.610 2.597 21.00 21.04 59.19 58.92 69.40 69.10 79.61 79.29 89.82 89.47 100.03 99.65 110.24 109.84 57.18 57.24 75.43 75.33	474 474 474 24 24 24 249.4 248.9 253.7 1.823 1.819 1.862 4.761 4.724 4.830 2.610 2.597 2.592 21.00 21.04 21.12 59.19 58.92 60.07 69.40 69.10 70.50 79.61 79.29 80.93 89.82 89.47 91.35 100.03 99.65 101.78 110.24 109.84 112.21 57.18 57.24 57.29 75.43 75.33 74.85

^aNV linear (P < .05); ^bNV Linear (P \leq .09); ^cNV Cubic (P \leq .10) *Initial Weight/Group = 45.2 lb

DISCUSSION

We observed a response in gain and feed intake when pigs were fed diets with supplemental NutriVantage at 3 lb/ton of complete feed. In fact, the hogs were **4.3 lb heavier at market weight** when the diets contained supplemental NutriVantage at 3 lb/ton compared to those without. While the optimum level for growth and feed intake was 3 lb/ton, we did see that as the level of NutriVantage was increased, the improvement in feed efficiency continued, which helped to keep the cost/lb of gain just slightly higher than the pigs on Group 1 without the NutriVantage. The improvements in gain with NutriVantage fed at 3 lb/ton resulted in very favorable advantages (\$0.88 to \$1.97 depending on the live price) in net return per hog marketed. We also observed slight improvements in percent lean as the level of NutriVantage was increased.

SUMMARY

Supplemental NutriVantage for swine (Product # 8101) at 3 lb/ton of complete feed resulted in faster growth rates along with improvements of \$1.10/hog marketed (using a live price of \$55/cwt).



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