

PRODUCER'S ROUND

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Volume 4





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FLAXLIC CAN IMPROVE GROWTH & PERFORMANCE OF BULLS:

Improving Reproductive Performance

Poor sperm motility and presence of abnormalities in sperm morphology are two of the most common causes of poor fertility in males. Fatty Acids are an essential component of sperm and research conducted by Kansas State University suggest that omega-3 fats provided in FlaxLic can lead to improvements in semen quality and bull fertility. Flaxseed is an excellent source of omega-3 fatty acids and has been shown to increase tissue

concentrations of both alpha linolenic acid and eicosapentaenoic acid, which are involved in synthesis of important reproductive hormones.

Flaxseed can be difficult to transport, process, and store, but the FlaxLic® block is an easy to handle supplement that contains high levels of omega-3 fatty acids that are found to be useful for developing beef bulls, breeding heifers and cows.

After conducting several university studies on meat quality and the effects of omega-3 fatty acids, New Generation Feeds decided to take the research further and look at feed efficiency and reproductive performance of bulls.



SMARTLIC[®]
SUPPLEMENTS

TRIAL 1 - Focus on Fertility

In the first study conducted by Kansas State University, 30 yearling Angus bulls were sorted by age and distributed evenly into two groups, a control and FlaxLic group. Both groups were fed a commercial, complete bull developer for 60 days, with the FlaxLic group supplemented with the FlaxLic block.

Both groups of bulls were weighed and examined for breeding soundness (percent motile and normal sperm) at the beginning of the study and then again at the end of the study.

This trial shows that supplementing FlaxLic® may constitute a viable method

for improving semen quality and fertility of bulls. (Charts 1 and 2). FlaxLic is a high-density, low-moisture block that resists heat and humidity and is manufactured by New Generation Feeds.

Chart 1

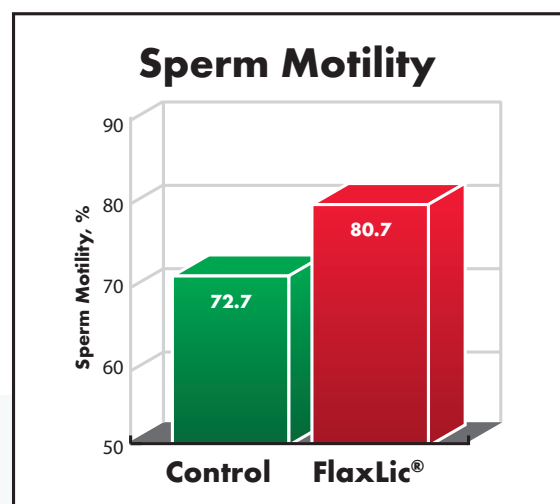
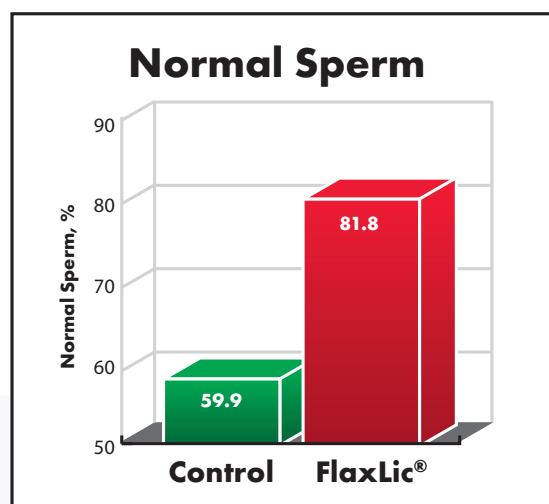


Chart 2



TRIAL 2 - Feed Efficiency

After reviewing the positive results of the first study, a second 70-day trial was conducted using 120 yearling Angus bulls that averaged 1,115 pounds. In this trial, the bulls were assigned randomly to two treatment groups with 40 bulls in each pen equipped with computerized feed intake monitoring systems. This system monitors the feed intakes and performance of each individual bull. The groups were both fed a forage-based diet (a TMR mix that

consisted of chopped hay, corn silage, wheat middlings and 3% supplement and fed twice daily). The second group was provided free-choice access to the FlaxLic block.

Identification number, treatment allocation, initial body weight, and final body weight for each bull were recorded. Feed and block consumption were also recorded.

RESULTS

The FlaxLic treatment increased average daily gain (Chart 3) and improved gain efficiency compared with the control (Charts 4 and 5). Feeding FlaxLic did not alter breeding soundness in spite of increased amounts of key fatty acids in semen. However, FlaxLic increased daily gain and improved feed efficiency.

Chart 3

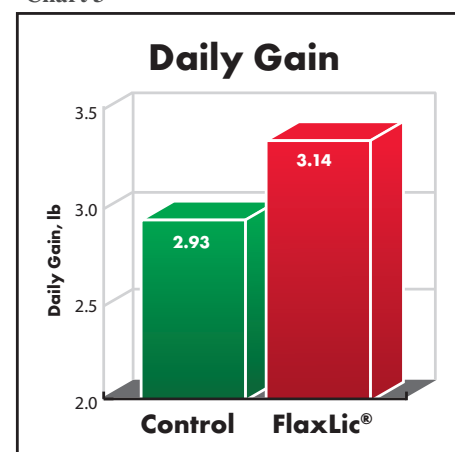


Chart 4

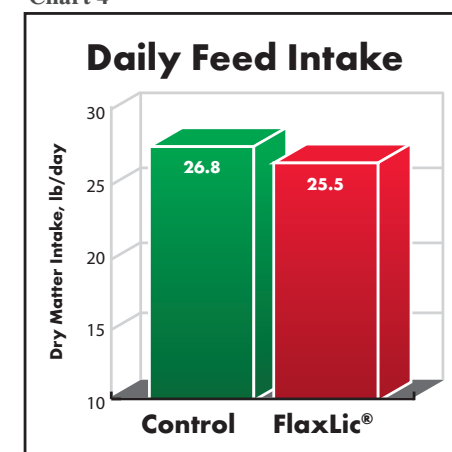
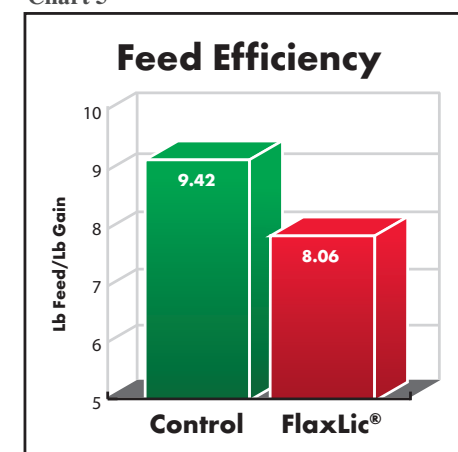


Chart 5



FLAXLIC SUPPLEMENT

FlaxLic® is Nutritionally Engineered® to provide essential vitamins and minerals for proper bull conditioning. FlaxLic® blocks are completely fortified to prepare your bulls for breeding season. FlaxLic is also great for show animals, calves at weaning, breeding heifers and cows.

In addition, FlaxLic is the first low moisture block to contain a high level of alpha-linolenic acid derived from flaxseed and edible linseed oil. High energy FlaxLic

blocks contain 15% fat, essential minerals, and vitamins, and work around the clock to meet the demands of breeding bulls.

This block is produced using a state-of-the-art patented process that provides a unique 24-hour feeding system. FlaxLic is an exceptionally dense all-weather block that will give you the most for your money.



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