August 2, 1999

Cliff Wetzel 2501 W. Washington Ithaca, MI 48847

Dear Cliff:

I am responding to your inquiry into the value of properly reasted soybeans relative to soybean meal or raw (unheated) soybeans.

Based on an average of 16 studies, the average milk production response was an increase of 3.5 lbs. of milk per day when reasted soybeans replaced soybean meal or raw soybeans in the lactation diet. Milk fat (%) increased .06 points, and milk protein decreased .07 points. Using average milk prices, and average incorporation rates of reasted soybeans into dairy diets, this translates into about a \$100 per ton greater value for reasted soybeans compared to soybean meal or raw soybeans. This increase in value in terms of milk production response due to heat treatment is considerably in excess of the cost of reasting.

Best regards,

Larry D/Satter
Dairy Scientist

LDS:clb