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Dairy Field Trials

Matrix Wisconsin Dairy Study

- 63 head of high producing Holstein cows were fed 30 grams of Matrix for one month (April 13 – May 13)
- The on-farm study was administered and supervised by Mr. Vern Metcalf of Land O'Lakes Purina Feed
- Milk yield was monitored daily via Dairy Comp 305 dairy software
- Based on the cost of Matrix and the value of both milk and milkfat in the U.S. currently, the economic return of Matrix in this study equated to over a 4 to 1 return on investment

After 30 says on Matrix, the results were as follows:

PARAMETER	PRE-MATRIX	POST-MATRIX	NET CHANGE
<i>Milk Yield lbs All Cows</i>	83.6	86.9	+3.3
<i>Peak Milk lbs All Cows</i>	98.7	105.3	+6.6
<i>% Cows >100 lbs Milk</i>	21.7	25.4	+3.7
<i>% Milk Fat All Cows</i>	4.05	4.14	+0.09
<i>% Milk Protein All Cows</i>	3.20	3.18	-.02

Creekside Dairy Study

- 500 head of high producing Holstein cows were tested over 6mos in Escalon, CA
- Cows were housed in adjacent pens in freestall barns with 125 cows per pen
- All cows received the same diet for the duration of the trial
- Treatment groups received an additional 1oz of Matrix blended in a TMR daily
- Data was averaged across 17 weeks with a 60 day pre-test period used as a covariate to adjust for treatment response
- All milk yield data is reported as 150 day standardized milk yield to adjust for DIM
- The study was conducted at Creekside Dairy, Escalon, CA

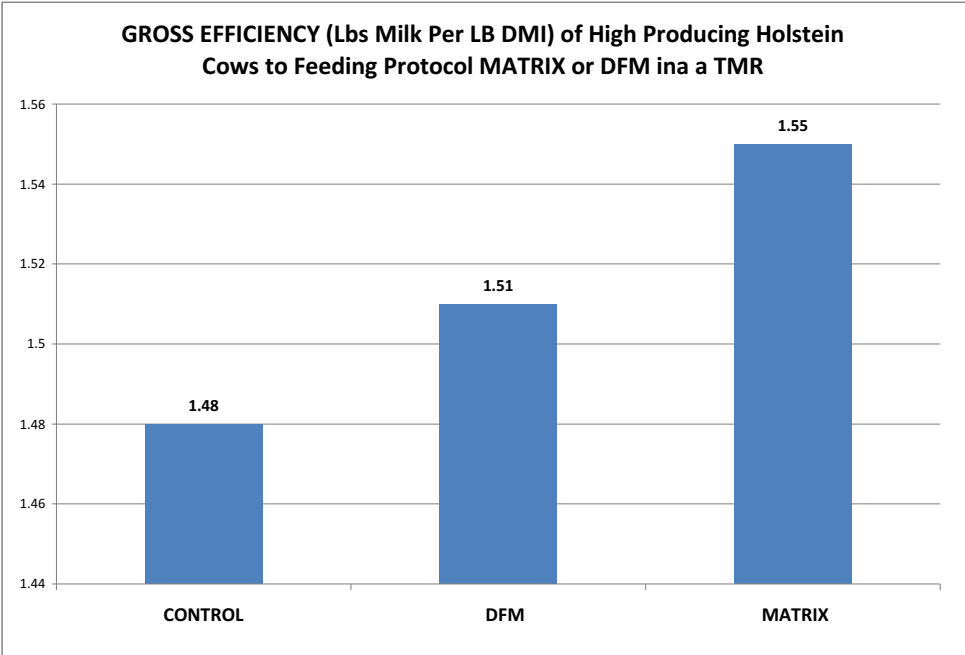
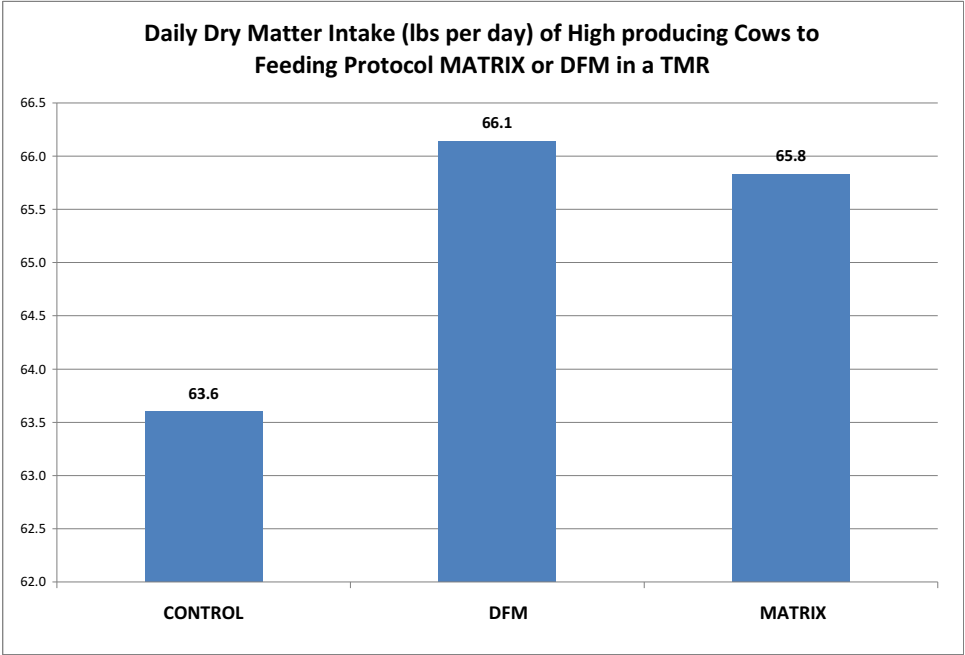
MEASUREMENT	MATRIX	CONTROL	NET CHANGE
Milk Yield, lbs	102.3 ^a	94.1 ^b	+ 8.2
Milk Yield, % Increase			+ 8.7
DMI, lbs	65.8 ^c	63.6 ^d	+ 2.2
DMI, % Increase			+3.5
Gross Efficiency (M/DMI)	1.55	1.48	+ .07
Gross Efficiency, % Increase			+4.7
	20 cents	-	
ROI*			7.9 to 1

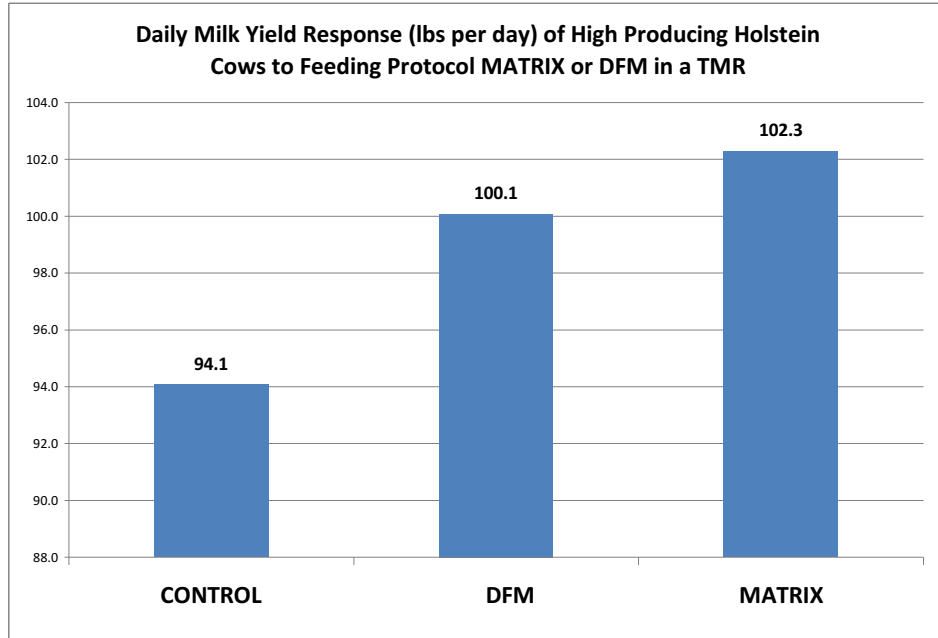
a,b - means with different superscripts are significantly different at P<.03

c,d - means with different superscripts are significantly different at P<.07

*ROI based on \$25 cwt milk and feed cost of 12.5 cents per lb DM

Note: MATRIX[®] is an All-Natural feed additive developed from 30 years of research and is comprised primarily of natural vasodilators and host-specific beneficial bacterial strains developed and manufactured by Protocol Naturals, Inc.





MATRIX® is a registered trademark of Horner Industries, Inc.