

# Effects of Feeding Increasing Levels of Wet Corn Gluten Feed on Production and Ruminal Fermentation in Lactating Dairy Cows

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July 22, 2022

Figure 1. Effects of level of wet corn gluten feed (WCGF) on performance of lactating Holstein cows.

Item <sup>1</sup>	Dietary WCGF (DM basis)				SEM	P-value	
	0%	11%	23%	34%		Linear	Quadratic
DMI (kg/d)	26.7	25.9	29.3	29.7	1.6	0.03	0.55
Yield (kg/d)							
Milk	36.8	37.0	40.1	38.9	2.6	0.007	0.28
Milk fat	1.37	1.39	1.49	1.44	0.11	0.06	0.21
Milk protein	1.11	1.14	1.21	1.21	0.08	0.01	0.49
Milk lactose	1.85	1.85	2.02	1.95	0.13	0.01	0.32
SCM	35.2	35.7	38.5	37.2	2.5	0.01	0.19
ECM	38.2	38.8	41.7	40.4	2.8	0.01	0.19
Milk fat (%)	3.65	3.76	3.72	3.67	0.11	0.93	0.23
Milk protein (%)	3.02	3.07	3.05	3.11	0.08	0.13	0.80
Milk lactose (%)	5.02	5.00	5.03	5.01	0.03	0.94	0.96
SCC (1,000/mL)	40.6	64.1	31.9	50.2	14.8	0.96	0.87
MUN (mg/dL)	17.2	16.3	16.3	17.3	0.90	0.83	0.08
ECM/DMI (kg/kg)	1.44	1.50	1.34	1.29	0.06	0.007	0.20
NE <sub>p</sub> /DMI <sup>2</sup> (Mcal/kg)	1.02	1.05	0.97	0.98	0.06	0.33	0.75
BW change (kg/28 d)	45.6	14.3	9.2	29.7	17.6	0.65	0.73
BCS change/28 d	-0.02	0.09	0.15	0.25	0.07	0.02	0.92

<sup>1</sup>Total n = 24 for DMI, ECM/DMI, and NE<sub>p</sub>/DMI; n = 25 for SCC; n = 28 for other variables. The SEM shown is the mean of treatment SEM.  
<sup>2</sup>NE<sub>p</sub> = net energy for productive use, defined as milk energy plus energy for BCS gain.

Figure 2. Results

Item	Control	23%	34%	Difference
Milk (lbs)	81.13	88.4	85.75	4.62
Milk fat (lbs)	3.02	3.28	3.17	0.15
Milk protein (lbs)	2.44	2.67	2.67	0.23
ECM (lbs)	84.2	91.9	89.1	4.9

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