

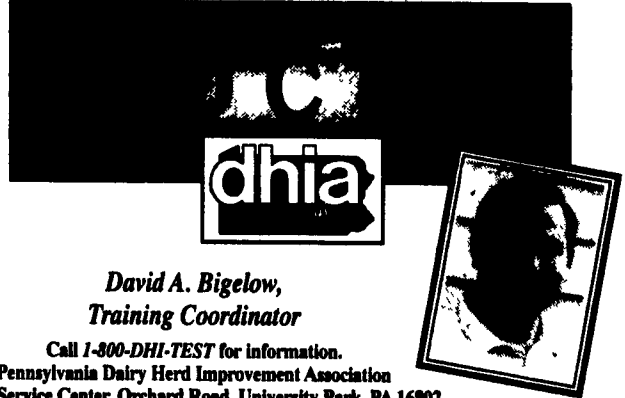
**RELATIVE FEED VALUES : Multiple Feedstuffs**

Shelled Corn Per Bushel ----> \$4.80 FARM price  
 48% Soybean Oilmeal Per Ton> \$290.00 MILL price

as of: Apr 22, 1996

Crop/Feedstuff	Relative Feed Value	DM %	Lbs Per Unit	% CP (dry matter basis)	% TDN
<b>Table 1. Grains</b>					
1 EAR CORN .....	155.04 Per Ton	85	2000	9.0	80.0
2 EAR CORN, high moisture.....	112.29 Per Ton	65	2000	9.0	75.0
3 CORN, shelled, high-moisture....	137.73 Per Ton	72	2000	10.0	83.0
4 OATS, spring.....	2.67 Per Bu.	90	32	12.5	76.0
5 BARLEY, winter.....	4.35 Per Bu.	89	48	13.9	83.0
6 WHEAT, winter.....	5.30 Per Bu.	86	60	11.4	88.0
7 SORGHUM, grain .....	4.63 Per Bu.	89	56	10.1	80.0
8 SOYBEANS, whole.....	8.40 Per Bu.	90	60	41.7	94.0
<b>Table 2. Supplements &amp; Extenders</b>					
9 CANOLA MEAL .....	248.14 Per Ton	92	2000	40.8	74.0
10 COTTONSEED MEAL.....	13.27 Per Cwt.	93	100	44.0	77.0
11 Whole COTTONSEED, with lint..	230.55 Per Ton	92	2000	21.0	96.0
12 BREWER'S GRAIN, wet.....	51.26 Per Ton	24	2000	27.1	67.0
13 BREWER'S GRAIN, dried.....	194.74 Per Ton	92	2000	27.1	66.0
14 DIST. CORN GRAIN, dried.....	229.16 Per Ton	93	2000	27.1	84.0
15 CORN GLUTEN FEED.....	10.62 Per Cwt.	90	100	25.0	82.0
16 WHEAT BRAN.....	8.34 Per Cwt.	89	100	16.8	70.0
17 WHEAT MIDS.....	9.44 Per Cwt.	90	100	17.8	80.0
18 BEET PULP, dried.....	8.10 Per Cwt.	91	100	8.8	78.0
<b>Table 3. Hay</b>					
19 LEGUME.....	148.27 Per Ton	87	2000	19.3	57.2
20 MIXED, mainly legume.....	143.63 Per Ton	87	2000	17.4	57.5
21 MIXED, mainly grass.....	126.26 Per Ton	88	2000	12.0	55.0
22 GRASS.....	123.54 Per Ton	89	2000	10.5	55.0
<b>Table 4. Silages</b>					
23 CORN.....	53.80 Per Ton	34	2000	8.8	67.8
24 LEGUME, haycrop.....	78.07 Per Ton	47	2000	19.4	54.8
25 MIXED, mainly legume.....	73.51 Per Ton	46	2000	17.5	54.6
26 MIXED, mainly grass.....	60.94 Per Ton	43	2000	13.3	52.0
27 GRASS, haycrop.....	54.30 Per Ton	40	2000	12.0	51.0
28 SMALL GRAIN.....	61.70 Per Ton	37	2000	13.9	64.0
29 SORGHUM-SUDAN.....	53.44 Per Ton	34	2000	11.5	62.9

Program by: W. K. Waters, Dept. of Ag. Econ. & Rural Soc., Penn State.



**dhia**

David A. Bigelow,  
 Training Coordinator

Call 1-800-DHI-TEST for information.  
 Pennsylvania Dairy Herd Improvement Association  
 DHIA Service Center, Orchard Road, University Park, PA 16802

**VIRGINIA ISHLER**  
 Extension Assistant  
 Penn State

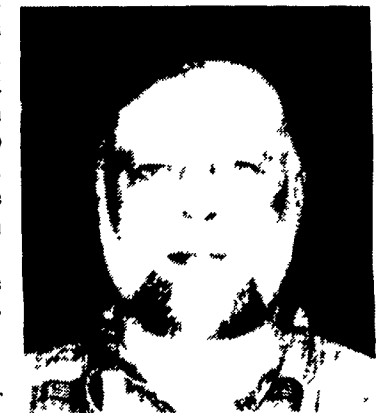
**Adam Derr**  
 Begins Directorship  
 STATE COLLEGE (Centre

UNIVERSITY PARK (Centre Co.) — June, July, and August are months that pose some of the greatest challenges to dairy producers. Summer temperatures and humidity are not conducive to cow comfort, ration programs are continually changing, not only for confined feeding, but also for grazing herds, and feeding practices are altered to accommodate increased field work. All these factors can have an unfavorable effect on the cow's metabolism; therefore, care must be taken when interpreting milk urea nitrogen (MUN) values.

Co.) — Adam Derr, a dairyman from Westmoreland County, recently attended his first PA DHIA state board meeting held at the Days Inn, State College.

It is typical to see MUN's average in the low to mid 20's (mg/dl) for a herd that is being intensively grazed. This can be attributed in part to the high total protein and high solubility of the protein in pasture. There is very little that can be done nutritionally or in feeding management practices to lower the values in this situation. However, inadequate water intake and heat stress can be factors in observed higher MUN values. Evaluating MUN's during these stressful times may help to improve conditions (i.e. better access to water) that would otherwise be overlooked.

Adam along with his wife Janice and three children, Adam Jr., Dyannia, and Rebecca, work as a family operation in owning and managing Fay-West Holsteins. This herd consists of 100 registered Holsteins while 300 acres of cropland is worked annually on their Dairy of Distinction Farm. Adam is actively involved in the Westmoreland DHIA and Holstein clubs as well as serving as a State Holstein Director. He also participates in the Pennsylvania Farm Bureau Association.




Adam Derr

Dairy cattle that are continued on stored feeds during the summer may also experience raised MUN's compared to similar rations fed during the winter months. A study conducted at the University of Missouri showed cows fed a nearly identical ration during winter and summer had plasma urea nitrogen (PUN) values 4 to 7 units higher in the summer. Both PUN and blood urea nitrogen are highly correlated with MUN's.

The environment cows are faced with during the summer may result in elevated MUN's. Altering the cows' diet to meet an "ideal" MUN level can lead to reduced dry matter intakes and lower milk production. If numerous cows exhibit MUN's over 27 mg/dl, then closer attention to feeding management practices and nutrient density of the diet are warranted for grazing and heat stressed animals.

Ration adjustments must NOT be made on MUN values alone.



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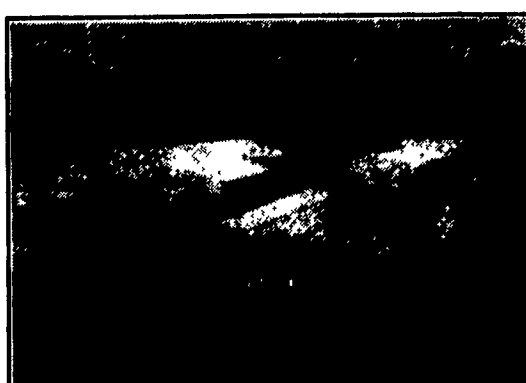
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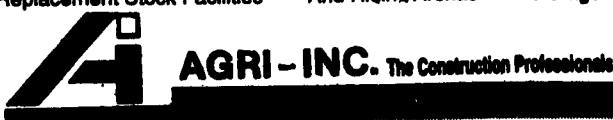
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