RELATIVE FEED VALUES: Multiple Feedstu PRICE INPUT: as of April 3	ffs
Shelled Corn Per Bushel>\$3.4544% Soybean Oilmeal Per Ton>\$205.00	
Relative Feed Value	@ DM %
Table 1. Grains1 EAR CORN111.40 Per Ton2 EAR CORN, high moisture80.73 Per Ton3 EAR CORN, bushel basket1.95 Per Bu.4 CORN, shelled, high-moisture99.03 Per Ton5 OATS, spring1.93 Per Bu.6 BARLEY, winter3.13 Per Bu.7 WHEAT, winter3.81 Per Bu.8 RYE, winter3.51 Per Bu.9 SORGHUM, grain3.33 Per Bu.10 SOYBEANS, whole, raw6.14 Per Bu.	85 65 85 72 90 89 86 88 89 90
Table 2. Supplements & Extenders11 COTTONSEED MEAL9.75 Per Cwt.12 BREWER'S GRAIN, wet37.43 Per Ton13 BREWER'S GRAIN, dried142.22 Per Ton14 DIST. CORN GRAIN, dried166.75 Per Ton15 HOMINY FEED6.97 Per Cwt.16 CORN GLUTEN FEED7.72 Per Cwt.17 WHEAT BRAN6.04 Per Cwt.18 WHEAT MIDS6.83 Per Cwt.19 BEET PULP, dried5.82 Per Cwt.	93 24 92 93 91 90 89 90 91
Table 3. Hay 20 LEGUME 107.96 Per Ton	87

20 LEGUME	107.96	Per Ton	87
21 MIXED, mainly legume	104.41	Per Ton	87
22 MIXED, mainly grass			88
23 GRASS			89

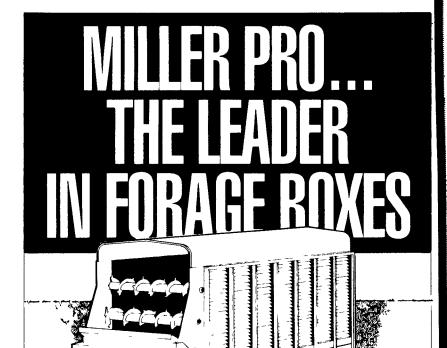
Table 4. Silages

24 CORN	38.71 Per Ton	34
25 LEGUME, haycrop	56.89 Per Ton	47
26 MIXED, mainly legume	53.48 Per Ton	46
27 MIXED, mainly grass	44.20 Per Ton	43
28 GRASS, haycrop	39.34 Per Ton	40
29 SMALL GRAIN		37
30 SORGHUM-SUDAN	38.59 Per Ton	34

Based on nutrient values in Penn State University Feeds Library.

Program by:

W.K. Waters, Dept. of Ag. Econ. & Rural Soc., Penn State University.



How Does Your Herd Compare?

STATE COLLEGE (Centre Co.) — This data is pulled from Pennsylvania DHIA's mainframe computer each week. It is a one-week summary representing approximately one-fourth of the herds on test, as they are tested monthly.

These data are valuable from a business management standpoint and can be used for comparing your operations to the averages from almost

1.400 hands some the state	
1,400 herds across the state.	
DHIA Averages for all herds processe	ed between
4/01/91 and 4/08/91	
Number of Herds Processed	1,325
Number of Cows Processed	74,383
Number of Cows Per Herd	56.1
Milk Per Cow (Lbs)	17,477
%-Fat	3.66
Fat Per Cow (Lbs)	640
%-Protein	3.19
Protein Per Cow (Lbs)	558
Average Days in Milk Per Cow	316
*Value for CWT Milk(\$)	13.52
*Value for CWT Grain(\$)	7.92
*Value for CWT Hay(\$)	4.33

*Value for CWT Silage(\$) 1.56 *Value for Pasture Per Day(\$) .30 *Value for Milk Per Cow Per Year(\$) 2,363 *Feed Consumed Per Cow Per Year(Lbs) A: Grain 6,888 B: Hay 2,556 C: Silage 14,554 D: Day Pasture 70 n *Feed Cost Per Cow Per Year(\$) A: Grain 545 B: Hay 110 C: Silage 227 D: Pasture 21 *Total Feed Cost Per Cow Per Year(\$) 905 *Income Over Feed Costs Per 1,458 Year(\$) *Grain to Milk Ratio 1:2.5 *Feed Cost Per CWT Milk(\$) 5.18 Avg Level For 1,114 SCC Herds 307,359 *Member generated figures

Good Heat Detection

(Continued from Page A19)

Provide an area for heat detection where there is good footing.
Observe for estrus when cattle are not distracted by feeding, milking or other farm activities.

• Set a schedule for twice daily observation for estrous behavior.

• During warmer months, observe the herd during the cooler hours of the day or evening.

• Record all heats so future heats can be anticipated.

ROLLING ON...IN THE 90's

Srillion

MEETS THE CHALLENGE

• Research has shown that the majority of mounting of cows in heat is performed by cows in proestnus or estrus. Very few mounts are exhibited by cows in midcycle. Thus allow all cows to interact so as to increase the chance of having a "willing" animal available to mount the cow in heat.

• Establish a foot care and hoof trimming program so that sore feet don't hinder mounting activity.

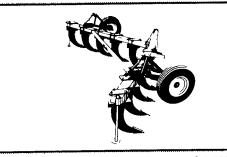
• Use heat detection aids to supplement visual observation.

Since estrous detection takes time, use your time efficiently. Observe for heat on a routine basis at times and in areas where cattle are likely to exhibit heat.

This should improve both the efficiency and accuracy of heat detection and thus result in less semen wastage and a more profitable calving interval.

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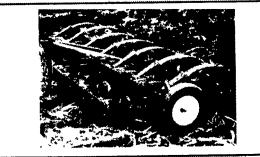
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DEEP TILLS - Featured above is the 7-shank model Deep-Till with the Category III hitch. This model is equipped with single individual trash cutting coulters and cuts a 17'6" width. It uses manual gauge wheels.

BOLLING ON ... IN THE 90's

