



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 herds across the state.

DHIA Averages for all herds processed between 4/25/92 and 5/02/92

Number of Herds Processed	1,352
Number of Cows Processed	80,383
Number of Cows Per Herd	59.4
Milk Per Cow (Lbs)	18,305
%-Fat	3.69
Fat Per Cow (Lbs)	676
%-Protein	3.17
Protein Per Cow (Lbs)	580
Average Days in Milk Per Cow	318
*Value for CWT Milk(\$)	12.72
*Value for CWT Grain(\$)	7.81
*Value for CWT Hay(\$)	4.47
*Value for CWT Silage(\$)	1.54
*Value for Pasture Per Day(\$)	.27
*Value for Milk Per Cow Per Year(\$)	2,328
*Feed Consumed Per Cow Per Year(Lbs)	
A: Grain	7,263
B: Hay	2,444
C: Silage	15,058
D: Day Pasture	52

- *Feed Cost Per Cow Per Year(\$)
- A: Grain 567
- B: Hay 109
- C: Silage 233
- D: Pasture 14
- *Total Feed Cost Per Cow Per Year(\$) 925
- *Income Over Feed Costs Per Year(\$)
- *Grain to Milk Ratio 1,403
- *Feed Cost Per CWT Milk(\$) 1:2.5
- Avg Level For 1,148 SCC Herds 5.05
- 326,977
- *Member generated figures

Average Farm Feed Costs For Handy Reference

To help farmers across the state to have handy reference of commodity input costs in their feeding operations for DHIA record sheets or to develop livestock feed cost data, here's this week's average costs of various ingredients as compiled from regional reports across the state of Pennsylvania. Remember these are averages so you will need to adjust your figures up or down according to your location and the quality of your crop.

- Corn, No. 2y - 2.91 BU. 5.21 CWT.
- Wheat, No. 2 - 3.80 BU. 6.35 CWT.
- Barley, No. 3 - 2.25 BU. 4.82 CWT.
- Oats, No. 2 - 1.84 BU. 5.74 CWT.
- Soybeans, No. 1 - 5.68 BU. 9.49 CWT.
- Ear Corn - 79.95 BU. 4.00 CWT.
- Alfalfa Hay - 131.75 TON 6.59 CWT.
- Mixed Hay - 112.00 TON 5.60 CWT.
- Timothy Hay - 120.00 TON 6.00 CWT.

Genetic Improvement In The Next Century

L.W. SPECHT
PSU Dairy Specialist
STATE COLLEGE (Centre Co.) — Here's a summary of remarks made by Ben McDaniel, Professor of Animal Breeding at North Carolina State University, at the Large Dairy Herd Management Conference held recently at Gainesville, FL.

Although dairy cattle breeding will change extensively in the remainder of the 20th century and early in the 21st, many of its more useful current aspects will continue. Multiple lactation yields of milk, fat and protein will remain the dominant parts of economic merit.

Use of newer reproductive technologies such as embryo transfer will improve gene flow to the cow population and thus increase rates of genetic progress.

Genetic values for other economically important but lowly heritable traits such as reproductive efficiency, mastitis resistance, and early involuntary culling will become widely available. Their usefulness will depend on AI bulls having progeny numbers adequate for accurate evaluations early in life.

All genetic estimates will be included in selection indexes for selecting new breeding stock. Matings will be to combine traits to maximize complementarity and heterozygosity but minimize inbreeding. Most, if not all, matings will be based on selection indexes.

Carriers of favorable single genes and chromosomal segments, and DNA markers closely linked to favorable ones will be identified soon after birth from among simi-

lar pedigrees, probably those of full brothers. Similarly, many animals that carry unfavorable ones will be eliminated and not used for a significant saving in costs of testing young bulls.

Tests for most, if not all, known deleterious recessive genes will be developed and used to screen breeding animals before they are widely used, further reducing the frequencies of recessive phenotypes.

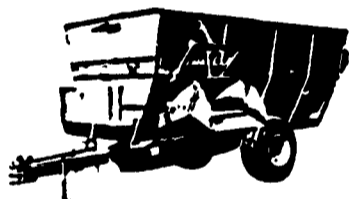
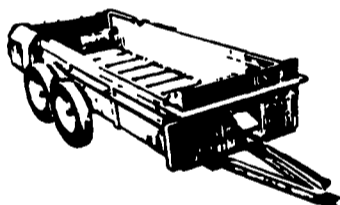
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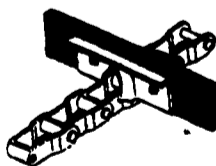


Make	Model	T-Bar Price	Pltite Price
Badger	160	310.67	296.76
Gehl	350	316.28	296.10
H&S	180	338.36	319.16
IH	530	274.69	256.03
JD	40	299.81	281.78
Kasten	250	406.12	391.36
Massey	205	379.99	353.81
NH	516-518	353.26	335.98
NH	679	468.28	450.15
NH	790-791	503.56	488.64
NI	214	381.36	368.33
NI	218-244	417.08	403.47
Patz	181	341.01	323.00

Make	Model	Main Conv. Price	X-Conv. Price
Artway	700,800	1670.00	
Artway	750,850	1887.00	
Butler	180		294.50
Butler	320		297.50
Gehl	170		132.50
Gehl	190	398.00	
Gehl	7190-7500		197.50
Henke			
Schuler	170	504.00	
Schuler	260	942.00	
Schwartz	7805		208.00
Weaverline	430	68.50	
Wic	45	74.00	

Make	Model	Main Conv. Price	X-Conv. Price
Badger	950-14	215.55	98.09
Dion		237.89	—
Gehl	610-640	240.67	94.52
Gehl	700-960	215.75	94.52
IH	105,110	238.46	—
IH	130	219.97	—
JD	110	317.64	189.25
JD	214	207.50	111.61
JD	714	210.16	127.61
Kasten	PB16'	238.05	—
Lamco	Rex	211.99	84.80
NH	6	213.04	83.51
Papac	140	211.46	—

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1/2	9.40	9.40	9.40	19.62
15/16	10.35	10.35	10.35	19.62
1	10.35	10.35	10.35	19.62
1 1/8	13.06	13.06	13.06	27.97
1 1/4	13.06	13.06	13.06	27.97
1 3/8	15.52	15.52	15.52	27.97
1 1/2	18.32	18.32	18.32	33.41
1 3/4	26.06	26.06	26.06	38.32
2	32.96	32.96	32.96	44.15

Chain No.	Chain Pitch	Single Strand	Double Strand	Triple Strand
25	1/2"	1.44	10.15	14.73
35	3/8"	1.80	2.22	4.11
40	1/2"	1.10	2.36	4.67
41	1/2"	.81	—	—
50	5/8"	1.54	3.33	6.73
60	3/4"	1.90	4.02	8.97
80	1"	3.90	8.05	17.01
100	1 1/8"	7.48	16.28	28.15
120	1 1/4"	9.28	19.48	40.49
140	1 3/8"	11.89	24.54	49.76
160	2"	13.81	28.55	63.44
180	2 1/4"	29.51	68.17	105.46
200	2 3/4"	38.25	90.82	140.65
240	3"	70.38	—	—

Chain No.	Chain Pitch	Single Strand	Double Strand	Triple Strand
60	3/4"	4.06	7.58	19.12
80	1"	8.91	11.84	19.07
100	1 1/8"	8.92	16.73	32.73
120	1 1/4"	10.67	22.40	—
140	1 3/8"	13.44	28.25	54.96
160	2"	15.52	32.60	67.83
200	2 3/4"	44.57	106.88	163.88

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