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KANSAS DAIRY EXTENSION NEWS

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1993 ANNUAL SUMMARY

KANSAS
DAIRY
HERD
IMPROVEMENT
PROGRAM

*"To manage it...
you need to first
measure it"*

(See page 16)

KANSAS DISTINGUISHED DAIRYMAN



A lifetime commitment... that's what Ed and Florence Fellers have given to their dairy operation, as well as to their family and each other. For 58 years, Higher View dairy at Hays has been in the milk business. At one time they also processed and retailed milk in the area.

The Fellers were honored as the 1994 Kansas Distinguished Dairy Family at the Kansas DHIA annual meeting, March 12, in Manhattan. Ed has long been a strong advocate of the benefit of having both production and conformation. He has developed numerous cows that have sold internationally. Ed and Florence have also given of much of their time to community service and never missed the chance to promote youth and the dairy industry. Ed is quick to give credit to his long time associate, Everett Williams, who manages the herd.

Over the years, the Fellers have employed many young people to help them get an education and experience. As they look back at the successes of those young people, Ed reflects, "It seems like that is a lot more worthwhile than milking cows." Yet it was milking cows that made it all possible!

Pictured with the Fellers is KANSAS FARMER editor Hank Ernst who made the presentation of the traditional traveling milk can.

WEATHER IMPACTS PRODUCTION-PROFIT

Inclement weather in 1993 resulted in reduced average yearly milk production by 4% and increased average somatic cells (SCC) by 12%. The 5% decline in milk price accompanied with less milk saw a 13% lower income-over-feed cost. The number of herds enrolled in DHI (Dairy Herd Improvement) program declined 7% (636 vs 591) while all Kansas dairies fell by 11% (1,222 vs 1,093). Fifty-five percent of the Kansas dairy cows are enrolled in a DHI program. The tested cows average nearly 6,000 lb more milk yearly than those cows not enrolled in the record program (DHI).

Using the goals of the K-State Dairy Herd Analyzer program as the basis, the following table compares 1993 with 1992 while keeping milk price constant. The changes in the four management areas illustrate the gains or losses in cash flow between the two years. The nutrition loss in 1993 resulted from the 695 lb milk average decrease. There was a small increase in feed cost per cwt milk. The main loss in reproduction was the result of a nine (9) day increase in calving interval. The milk quality area assumes a maximum premium of 20¢/cwt.

The following table illustrates gains and losses on a per cow basis comparing 1993 with 1992.

<u>Management</u>	<u>Change: 1993 v 1992</u>
Nutrition	-\$91
Genetics	+\$2
Milk Quality	-\$2
Reproduction	-\$32
	-\$123

TABLE 1. PARTICIPATION IN VARIOUS KANSAS DAIRY HERD IMPROVEMENT ASSOCIATION TESTING PROGRAMS. 1993.

Type of Program	No. of Herds (Complete Yr)	No. of Cow Yr	Cows/ Herd	Yearly Rolling Average				
				Milk	%	Fat	%	Protein
DHI	73	5,167	71	16,937	3.7	622	3.2	538
DHI, APT	160	11,072	69	17,670	3.6	634	3.2	564
DHI, APCS	24	2,164	90	17,556	3.6	630	3.2	566
DHIR	32	2,696	84	18,586	3.7	694	3.3	605
DHIR, APT	32	3,317	104	18,991	3.6	679	3.2	606
DHI-OS	16	781	49	16,175	3.6	517	3.2	517
DHI-OS-AP -3	41	2,694	66	15,501	3.5	505	3.2	505
DHI-AP	149	10,714	72	16,402	3.6	582	3.2	525
<u>All Programs</u>	527	38,605	73	17,209	3.6	619	3.2	551

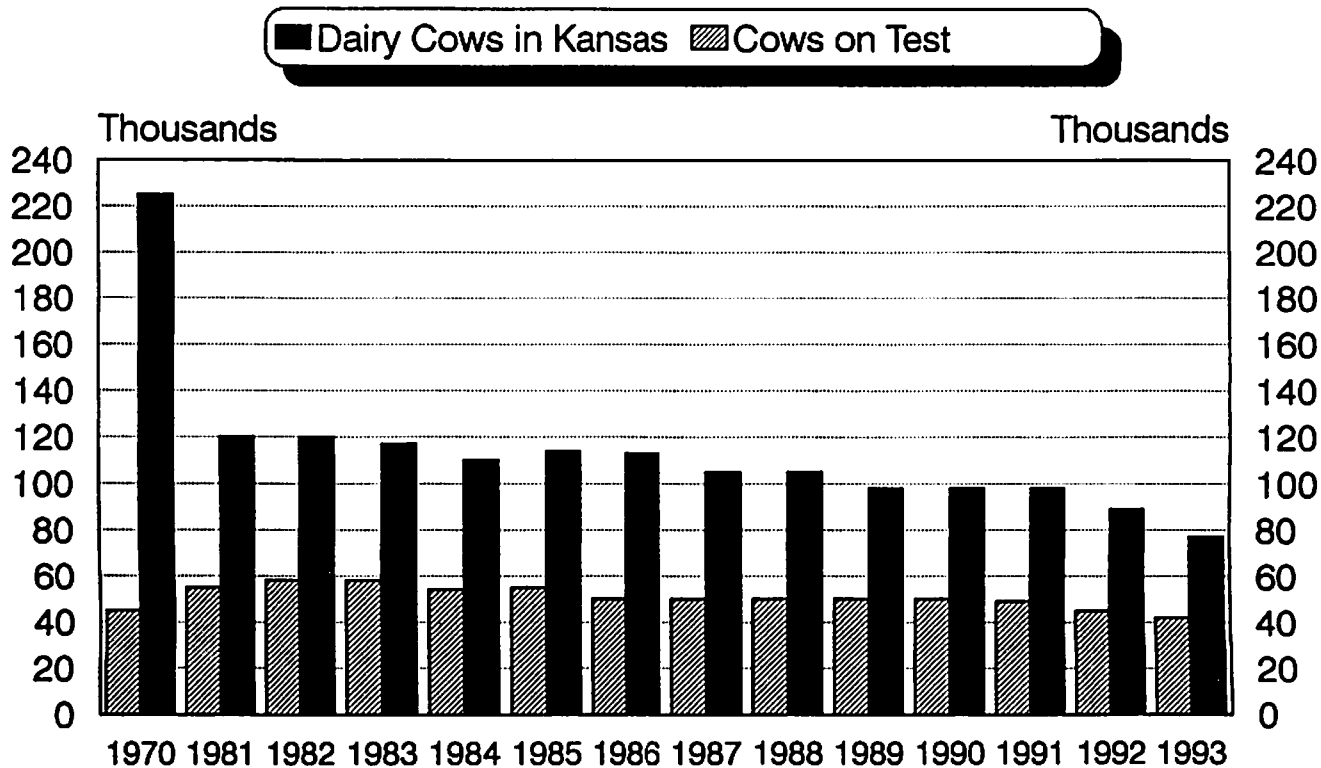


Figure 1. Total DHIA participation during the period 1970-1993.

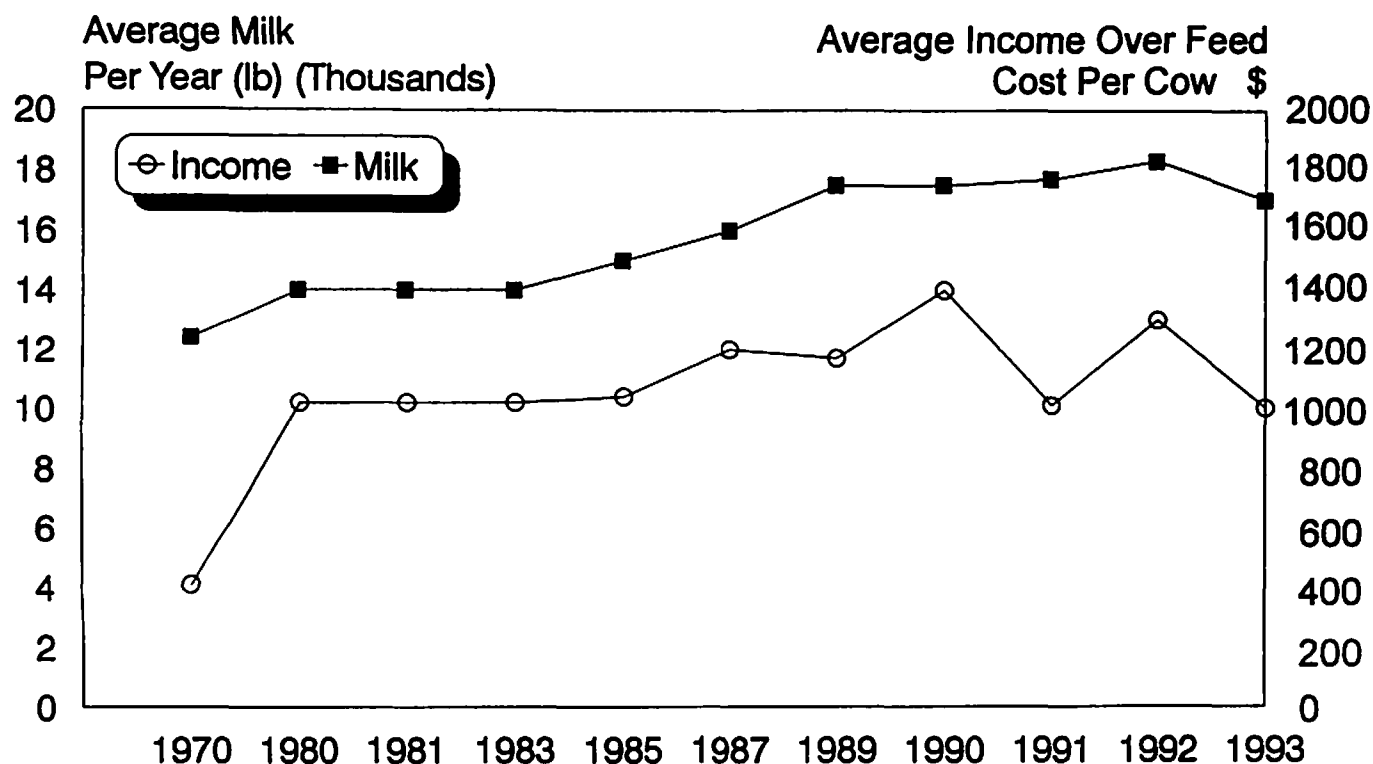


Figure 2. Production and income-over-feed cost trends, 1970-1993.

TABLE 2. STATISTICAL SUMMARY OF KANSAS OFFICIAL DHI HERDS FOR THE PERIOD 1988-1993.

Line	Year					
	1988	1989	1990	1991	1992	1993
1. Avg. milk/cow/year (lbs)	16,705	17,324	17,345	17,730	18,116	17,361
2. Number of DHI herds	531	510	511	478	451	470
3. Cows/herd, average	72	73	75	70	74	75
4. Average percent milkfat	3.7	3.7	3.7	3.6	3.6	3.6
5. Average percent protein	3.2	3.2	3.2	3.2	3.2	3.2
6. Avg. percent days-in-milk	87	87	87	87	87	86
7. Average Calving Interval (Days)	400	400	408	411	410	419
8. Average Somatic Cell Count (,000)	446	404	403	400	401	448
9. Value of milk/cow (\$)	1,882	2,123	2,338	1,966	2,251	2,043
10. Avg. milk price/cwt (\$)	11.27	12.25	13.51	11.09	12.43	11.77
11. Total feed cost/cow (\$)	821	982	959	956	988	945
12. Income over feed cost/cow	1,061	1,141	1,379	1,010	1,263	1,098
13. Feed cost/cwt milk (\$)	4.91	5.67	5.53	5.40	5.44	5.47

Average production among DHI herds declined 4% in 1993. A 5% decline in milk price (Line 10) resulted in a 13% loss in income-over-feed cost (Line 12) compared to the previous year. Inclement weather coupled with poor quality forage accounted for lower production. Weather also had a marked effect on udder health as noted by a 12% increase in average somatic cells (SCC). Average calving interval increased to 419 days (Line 7). Feed cost (Line 11) and Feed cost/cwt milk (Line 13) have remained relatively constant since 1989.

COWS MORE PROFITABLE AT HIGHER MILK LEVELS

Dairy cows convert feed into milk more efficiently and profitably at higher levels of yearly production even though it takes more feed. Table 3 ranks Kansas Holstein herds by quartile based upon yearly milk per cow or rolling herd average (RHA). Group 4 (high) averaged 62% more milk than Group 1 (low) while feed costs increased only 43% between the low and high groups. Maintenance costs (feed) are the same for cows of similar body size (line 4). Extra feed above maintenance for production, especially in early lactation, is converted very efficiently into milk

if the cows have the genetic ability to respond. Line 16 expresses this efficiency another way with a 12% decline in **Feed Cost/cwt Milk** between Groups 1 and 4.

The effects of production on reproduction, while negatively correlated genetically, are not significant as measured by calving interval (Line 10) and cows pregnant after two services (Line 12). Higher producing herds do use proved bulls more extensively (Line 11).

TABLE 3. STATISTICAL SUMMARY OF KANSAS HOLSTEIN HERDS GROUPED BY PRODUCTION LEVEL, 1993.

<i>Line</i>	<i>Group 1</i>	<i>Group 2</i>	<i>Group 3</i>	<i>Group 4</i>
1. Average milk/cow/year (lbs)	12,718	15,887	17,965	20,597
2. Average fat/cow/year (lbs)	478	571	641	733
3. Average protein/cow/year (lbs)	417	512	572	652
4. Average body wt. (lb)	1,190	1,270	1,270	1,300
5. Cows/herd, average	57	70	83	84
6. Average percent milkfat	3.8	3.6	3.6	3.6
7. Average percent protein	3.3	3.2	3.2	3.2
8. Percent days in milk	83	86	87	88
9. Average days dry	71	65	64	63
10. Average calving interval (days)	417	422	418	418
11. Percent cows by proven sires	40	63	64	80
12. Percent cows PG, 1+2 services (%)	75	74	68	68
13. Value of milk/cow (\$)	1,494	1,863	2,109	2,436
14. Total feed cost/cow (\$)	749	897	965	1,071
15. Income over feed cost/cow (\$)	745	966	1,144	1,365
16. Feed cost/cwt milk (\$)	5.93	5.62	5.36	5.23

TABLE 4. AVERAGE PREDICTED TRANSMITTING ABILITY VALUES FOR BULLS, JANUARY 1994.

<i>Breed</i>	<i>Active AI Bulls</i>				<i>Non-AI Bulls</i>			
	<i>Number</i>	<i>PTAM (lb)</i>	<i>PTAF (lb)</i>	<i>MFP\$ (\$)</i>	<i>Number</i>	<i>PTAM (lb)</i>	<i>PTAF (lb)</i>	<i>MFP\$ (\$)</i>
Ayrshire	21	+874	+32	+105	62	+278	+12	+35
Guernsey	30	+1,142	+48	+146	83	+483	+19	+57
Holstein	571	+1,992	+65	+236	4,807	+720	+26	+85
Jersey	73	+1,484	+62	+185	389	+495	+25	+65
Brown Swiss	37	+999	+44	+133	85	+227	+11	+30
Milking Shorthorn	9	+940	+34	+109	22	+396	+15	+50
Red and White	36	+1,752	+55	+198	67	+285	+15	+37
All Breeds	809	+1,818	+62	+210	5,515	+681	+25	+81

FRESHENING INTERVALS TOO... L - O - N - G

Repro-losses continue to have a marked impact on the profitability of the dairy business. Of the four management areas, reproduction accounted for 26% of the losses in the average DHI herds. Within the repro-area elongated calving interval was responsible for 64% of the losses in the average herd while age at first calving (27 mo) accounted for 18% in reduced cash flow. The total repro-loss in 1993 was \$174 per cow.

Days to first service (88) is the primary cause of long calving intervals. EBS-MORE provides routine reminders of cows to breed, cows to preg. check, etc. Synchronization schemes such as Monday Morning Program, are very effective in reducing days to first bred (and calving intervals).

Repro-losses are insidious in that poor results are difficult to evaluate and often go undetected until serious losses have occurred. EBS-MORE repro-reports or UDR's are invaluable in keeping on top of poor repro-performance.

AI - A GOLDEN OPPORTUNITY

Artificial insemination (AI) is the best "buy" in the dairy industry! Long recognized for safety and disease prevention, AI provides the very best genetics for production and conformation traits at reasonable cost and proficiency. Table 4 compares the genetic transmitting abilities of sires by breed for bulls available through AI compared with Non-AI bulls proved under "natural" service. Using the MFPS values for all breeds, the AI sires' daughters produced \$129 more milk per year than daughters sired by Non-AI bulls. The average difference is further enhanced by selecting AI bulls in higher percentiles (+80% tile).

AI offers the additional advantage in the heifer replacement program by selecting for ease of calving as well as for production traits. While difficult calving is not eliminated, avoiding hard calving bulls markedly reduces overall calving difficulty.

TABLE 5. BREED AVERAGES FOR ALL DHI HERDS, 1993'.

Breed	Number Herds	Number Females	Rolling Yearly Avg				Freshening Interval (Days)	Days in Milk (%)
			Milk (lb)	Fat (lb)	Protein (lb)	Inc/FC (\$)		
Ayrshire	45	1,840	14,083	545	476	915	402	84
Brown Swiss	112	5,589	14,462	583	515	1,024	421	86
Guernsey	69	2,955	12,980	585	459	982	426	88
Holstein (Kansas)	430	33,160	17,591	628	560	1,107	419	86
Jersey	167	8,109	12,474	576	466	998	392	86
Mixed	147	6,671	14,193	536	475	1,077	404	85
Milking Shorthorn	20	757	13,686	467	449	953	400	83
Dairy Goats	47	1,045	1,663	61	52	318	346	73

*The breed average for Holstein is Kansas. The other breeds are averages for herds processed through Midstates DRPC.

TABLE 6. YEARLY PRODUCTION COMPARISONS OF ALL KANSAS DHI COWS AND GOATS BY BREEDS.

Breed	No. Herd	Rolling Yearly Avg			Breed	No. Herd	Rolling Yearly Avg		
		Milk (lb)	%	Fat (lb)			Milk (lb)	%	Fat (lb)
Ayrshire					Jersey				
1988	12	12,698	3.9	490	1988	14	11,726	4.7	547
1989	9	12,854	3.9	497	1989	16	11,843	4.7	559
1990	7	13,074	3.9	504	1990	16	12,249	4.6	567
1991	7	13,058	3.9	503	1991	19	12,224	4.7	571
1992	6	13,262	3.9	515	1992	16	12,799	4.6	594
1993	6	12,894	3.9	506	1993	15	13,062	4.6	602

TABLE 6. YEARLY PRODUCTION COMPARISONS OF ALL KANSAS DHI COWS AND GOATS BY BREEDS (Cont'd).

<i>Breed</i>	<i>No. Herd</i>	<i>Rolling Yearly Avg</i>			<i>Breed</i>	<i>No. Herd</i>	<i>Rolling Yearly Avg</i>		
		<i>Milk (lb)</i>	<i>%</i>	<i>Fat (lb)</i>			<i>Milk (lb)</i>	<i>%</i>	<i>Fat (lb)</i>
<u>Brown Swiss</u>					<u>Mixed</u>				
1988	8	11,706	4.0	472	1988	11	14,403	3.9	564
1989	8	12,415	4.0	497	1989	10	15,929	3.9	623
1990	5	12,344	3.9	483	1990	9	14,595	3.9	566
1991	5	13,158	3.9	515	1991	8	15,004	3.9	582
1992	5	13,356	4.1	546	1992	8	15,605	3.8	598
1993	3	13,365	4.0	529	1993	12	14,871	3.8	571
<u>Guernsey</u>					<u>Goats</u>				
1988	10	11,981	4.6	546	1988	14	1,729	3.9	68
1989	9	12,601	4.7	586	1989	11	1,933	3.6	75
1990	7	12,597	4.4	557	1990	14	1,863	3.7	69
1991	6	13,575	4.3	590	1991	15	1,822	4.0	73
1992	5	12,227	4.5	554	1992	13	1,785	4.0	72
1993	4	12,318	4.5	558	1993	9	1,891	3.8	73
<u>Holstein</u>					<u>All Breeds (Cows)</u>				
1988	476	16,983	3.6	616	1988	531	16,705	3.7	611
1989	458	17,608	3.7	651	1989	510	17,324	3.7	645
1990	465	17,607	3.6	639	1990	511	17,345	3.7	633
1991	431	18,018	3.6	651	1991	478	17,730	3.6	645
1992	411	18,197	3.6	655	1992	451	18,116	3.6	657
1993	430	17,591	3.6	628	1993	470	17,361	3.6	555

SUMMARY OF KANSAS DAIRY HERD IMPROVEMENT ASSOCIATIONS. (DHI HERDS) 1993

<i>Association</i>	<i>No. Herd</i>	<i>No. Cow Year</i>	<i>Rolling Yearly Avg</i>		<i>Association</i>	<i>No. Herd</i>	<i>No. Cow Year</i>	<i>Rolling Yearly Avg</i>	
			<i>Milk (lb)</i>	<i>Fat+Prot (lb)</i>				<i>Milk (lb)</i>	<i>Fat+Prot (lb)</i>
Southeast	6	659	17,081	1,150	Harper-Barber	6	596	17,248	1,163
Allen	6	381	17,911	1,188	Rooks	6	392	16,508	1,097
Bourbon	8	766	17,612	1,196	High Plains	12	795	16,209	1,111
Miami	4	183	17,459	1,236	East Plains	16	1,064	15,598	1,048
Douglas-Franklin	22	1,697	17,045	1,161	Republic-Cloud	10	657	16,110	1,098
Greenwood	5	510	16,592	1,144	Washington-Marshall	29	1,851	16,898	1,141
Cowley	5	599	18,117	1,233	Smith-Jewell	6	371	14,193	969
Central	32	2,398	18,162	1,232	Solomon Valley	10	584	14,253	968
Harvey	15	1,002	18,755	1,275	Dickinson	13	1,003	17,267	1,219
Rice-Ellsworth	2	97	14,661	984	Geary	9	600	14,792	1,066
Anderson	14	971	16,086	1,129	Brown-Doniphan	12	928	16,793	1,130
Golden Belt	3	421	17,746	1,204	Nemaha-Jackson	51	3,665	19,541	1,320
Western	6	440	15,074	1,043	Marion	35	2,738	18,061	1,237
Reno	34	1,853	17,414	1,205	Jefferson	4	280	17,752	1,139
Sedgwick	37	3,439	17,673	1,199	Kaw Valley	7	382	16,195	1,146
Sumner	9	665	16,023	1,098	Morris	13	900	16,196	1,102
Leavenworth	12	1,393	17,900	1,153	Atchison	8	552	17,101	1,145

SUMMIT MILK YIELD DICTATES YEARLY MILK

Yearly Milk Best Predictor of Profitability

Yearly milk production per cow (and profit) is highly correlated with Summit Milk Yield (SMY). SMY is determined by averaging the two higher milk weights from the first three test day weights on each cow. As SMY increases 1 lb, yearly milk per cow (Rolling Herd Average - RHA) increases about 300 lb. SMY is the best estimate of peak yield.

Once SMY is established, the Stage of Lactation Profile (SOLP) indicates the average lactation curve for the herd. SOLP is determined each month by averaging daily

production for all cows within given time periods (Days In Milk) as noted in Figure 3 which shows the effects of SMY and SOLP on RHA. Figure 3 also shows the impact of RHA on Return to Labor and Management. No matter the SMY level or RHA, once lactation progresses, all cows decline at about the same rate (0.1 lb milk/day).

Table 7 defines SMY by lactation number and the effect upon RHA. Also somatic cells (SCC) decrease as RHA increases.

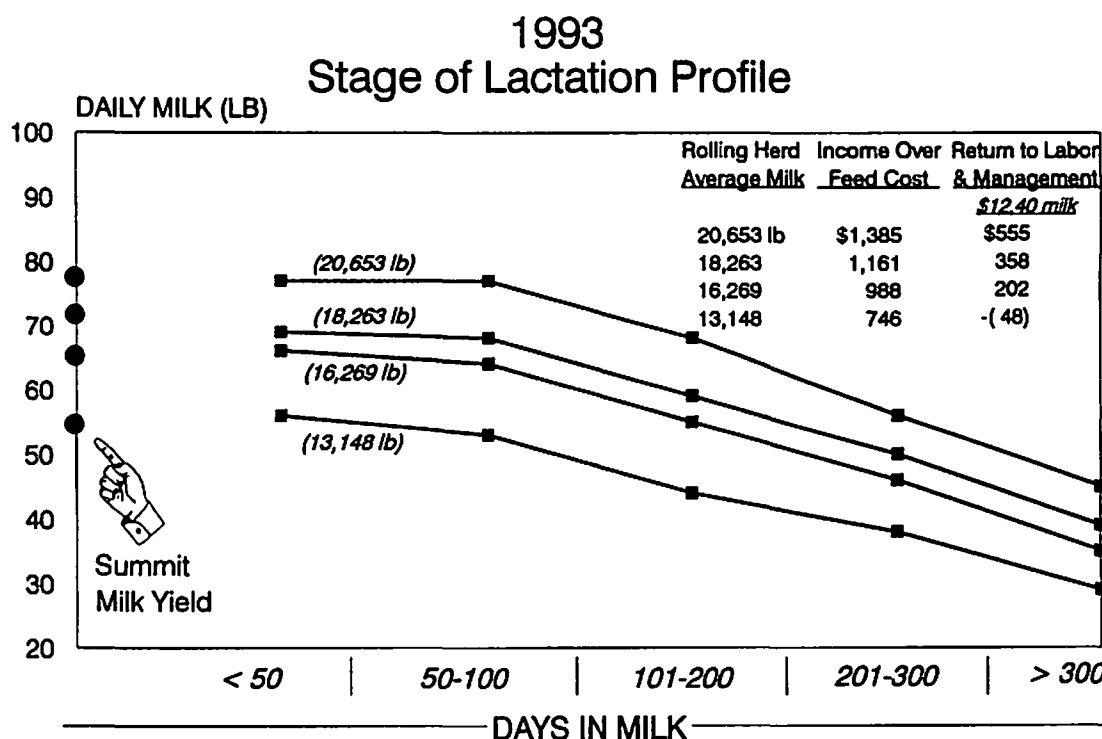


Figure 3. Summit Milk Yield (●), Lactation Profiles (■) and Income-Over Feed Cost for Kansas Holstein Herds at Various Levels of Rolling Herd Averages (milk per cow per year)

Table 7. Effect of summit milk yield (SMY) by lactation and somatic cell count (SCC) on rolling herd average (RHA).*

Rolling Herd Avg.	Avg. Daily Milk	Avg. Days in Milk	Summit Milk Yield			Somatic <u>Cell Count</u>
			-----Lactation-----			
			L-1	L-2	L-3+	
(lb)	(lb)	(days)	(lb)	(lb)	(lb)	(,000)
20,653	65.5	166	66.6	86.2	91.0	249,
18,263	57.8	165	59.5	75.7	80.9	303,
16,269	53.1	174	55.5	69.7	74.8	374,
13,148	43.3	179	44.9	56.9	61.4	406,

Kansas DHI Holstein herds ranked by quartile.

1993 - HIGH HERDS -1993

A herd must have production 10% or more above breed average for either milk, fat, protein or combined fat + protein to qualify.

Name	Address	No. Cows	Milk	Combined Fat-Protein (lbs)	Energy Corrected Milk (ECM)
<u>AYRSHIRE:</u>					
Seiwert Ayrshires	Garden Plain	8.8	14,301	1,054	15,566
Ke-Mar-Lee Ayrshire Farm	Hutchinson	15.6	13,598	1,011	14,802
<u>BROWN SWISS:</u>					
Melvin H. Nisly	Hutchinson	120.6	16,031	1,171	17,296
<u>GOATS:</u>					
Leon & Donna Birmeier	Leonardville	11.4	1,996	183	2,591
Ray & Nancy Songs	Wamego	8.9	2,544	179	2,690
Salt Hawk	Hutchinson	8.8	3,075	168	2,664
Don H. Kleiner	Manhattan	10.6	2,493	164	2,508
Willard William	St. George	12.0	1,938	152	2,194
Barbara K. Regehr	Inman	8.8	1,733	150	2,107
Kayla R. Dieball	Manhattan	13.1	2,089	139	2,104
<u>GUERNSEY:</u>					
Jim & Nancy Sack	Baldwin	51.0	13,441	1,119	16,092
Nancy Hjetland	Topeka	6.7	14,239	1,105	16,171
<u>HOLSTEIN:</u>					
Fischer Brothers	Beattie	69.4	23,282	1,625	24,442
J&L Dairy	Moundridge	77.2	23,262	1,615	24,174
Richard Gress	Seneca	93.7	23,244	1,595	24,145
Holste Homestead, Inc.	Ludell	62.4	24,258	1,577	24,042
Curt & Scott Mueller	Humboldt	78.9	23,286	1,561	23,546
Andyacres Holstein Farm	White City	53.0	22,181	1,544	23,137
Melvin Heiman	Baileyville	42.2	22,590	1,541	23,283
Hillside Dairy Farm	Peabody	71.4	23,008	1,536	23,292
Rottinghaus Holstein Farm	Seneca	226.7	22,409	1,533	23,103
Titus & Stanley Jost	Newton	74.7	22,450	1,531	23,160
Gorges Dairy, Inc.	Garden Plain	100.7	22,274	1,514	22,779
Currie, Inc.	Gypsum	149.9	22,107	1,508	22,664
Klassen, Inc.	Hillsboro	257.4	21,489	1,504	22,490
Richard Buessing	Axtell	61.7	22,849	1,482	22,610
Gregg & Shelly Sexton	Abilene	28.1	20,900	1,480	22,269
Hillcrest Farm	Newton	41.2	21,473	1,477	22,245
Steinlage Dairy	Goff	110.7	22,678	1,471	22,348
Paul & Bob Seiler	Valley Center	107.6	21,457	1,468	22,123
Hole-in-One Holsteins	Goddard	48.6	21,724	1,467	22,168
Bodenhausen, Inc.	Muscotah	80.7	20,977	1,462	21,877
Max & Marvin Niehues	Goff	104.7	21,274	1,460	21,948
Darrell & Donna Heinen	Axtell	49.3	21,684	1,457	21,991
Ohldes Dairy	Linn	115.1	21,637	1,457	21,993
Ronald J. Funk	Valley Falls	58.8	24,675	1,455	22,541
Robert A. Lowe	Prescott	153.1	21,891	1,455	21,999
BC&D Farms	Seneca	133.7	21,859	1,454	22,079
Vernice Buessing	Baileyville	51.5	21,478	1,453	21,895
Tauy Creek Holsteins	Baldwin City	94.8	21,656	1,450	21,869
Forsberg Bros.	Assaria	107.4	20,842	1,450	21,775
Rottinghaus Family Dairy	Seneca	88.8	21,726	1,449	21,965
Farmland Research Farm	Kansas City	90.8	21,675	1,447	21,951
Meier Dairy	Palmer	99.5	20,872	1,447	21,694
Don Deters	Vermillion	74.2	21,175	1,445	21,779
Nemaha Valley Holstein Farm	Seneca	116.1	20,607	1,439	21,648
William Koehn, Jr.	Burns	81.2	20,083	1,433	21,502

Name	Address	No. Cows	Milk	Combined Fat-Protein (lbs)	Energy Corrected Milk (ECM)
HOLSTEIN CONT'D.					
Davidson Bros.	Hope	74.3	20,033	1,432	21,547
Bill & Joyce Boeckman	Goff	45.1	21,696	1,431	21,797
Dennis & Linda Frazee	Sabetha	37.6	21,556	1,431	21,808
Don Fincham	Marysville	46.2	21,832	1,430	21,776
Roman Beachy	Hutchinson	69.4	20,944	1,430	21,434
David & Ilene Enneking	Centralia	61.5	21,304	1,425	21,694
Ronald J. Miller	Hutchinson	10.3	20,426	1,425	21,384
Ralph & Jeanne Schmidt	Whitewater	53.2	21,197	1,417	21,441
Carol Leo Heiman	Baileyville	81.3	21,344	1,415	21,543
Dalinghaus Dairy	Baileyville	51.2	20,611	1,415	21,361
Galen W. Penner	Hillsboro	54.5	20,671	1,414	21,327
Harvey D. Nisly	Partridge	85.0	3X 21,862	1,413	21,623
Schreiner Farms	Sharon	214.0	3X 19,859	1,413	20,888
Willard Helmuth	Hutchinson	16.0	3X 22,036	1,411	21,654
Douglas & Lois Enneking	Bern	67.6	20,988	1,410	21,385
Robert Kaufman	McPherson	32.4	20,765	1,408	21,079
Heideman Dairy	Corning	83.1	20,518	1,408	21,309
Gilbert P. Kaufman	Moundridge	167.7	20,108	1,402	21,091
Mueller Dairy	Tampa	87.1	20,751	1,395	21,050
Raida Investments	Kingman	17.9	20,541	1,394	21,037
Donham Dairy	Gardner	111.0	20,261	1,388	20,747
Leon K. Kremerier	Hillsboro	47.3	21,323	1,386	21,201
Lloyd A. Funk	Hillsboro	92.5	19,907	1,385	20,731
Hiss Brothers	Great Bend	273.4	20,398	1,383	20,762
Crist H. Yoder	Hutchinson	43.7	19,830	1,379	20,674
Robert H. Siemens	Halstead	83.6	20,444	1,378	20,804
Ronald Coltrane	La Harpe	118.6	21,130	1,377	20,918
Fischer Dairy	Frankfort	84.3	20,800	1,377	20,965
Green Gables Dairy	McPherson	46.5	3X 20,261	1,373	20,662
Mahlon Miller	Hutchinson	79.9	19,415	1,371	20,544
Samuel & Robert Bowen	Hiawatha	50.4	20,071	1,370	20,653
Ronald W. Rockers	Greeley	99.5	3X 20,448	1,368	20,682
Dan Cook	Hope	78.0	19,002	1,367	20,397
Riverside Dairy	Haven	32.3	20,196	1,366	20,666
Wells Family Dairy	Viola	85.7	3X 19,974	1,365	20,442
Coe Dairy	Soldier	100.1	20,111	1,360	20,468
Dean Allison	Delphos	86.5	19,855	1,360	20,436
Whitehill's La-Par Dairy	Latham	165.8	19,878	1,356	20,444
Leon & Denise Seiwert	Garden Plain	54.5	20,524	1,355	20,642
Eldon Andres	Peabody	79.9	21,590	1,354	20,736
Pat Schmelzle	Seneca	68.7	19,818	1,354	20,438
Alvin S. Beachy	Hutchinson	61.3	20,123	1,353	20,439
Keith & Donna Olson	Alta Vista	30.6	20,092	1,353	20,486
William M. Beezley	Girard	186.7	20,285	1,351	20,357
Lane Holsteins	Colwich	72.7	19,678	1,351	20,210
Davis Farms	Fort Scott	173.0	19,705	1,349	20,469
Galen Case	McPherson	86.5	19,590	1,346	20,272
Steve Pretz	Osawatomie	9.3	19,083	1,345	20,127
Voigts Dairy	Robinson	107.2	18,802	1,345	20,076
Schmitz Holstein Farm	Axtell	42.6	20,296	1,344	20,436
Robert & Marlene Wessel	Seneca	42.0	19,965	1,343	20,390
Melvin Sundstroms & Sons	Ottawa	183.5	19,766	1,341	20,144
Prairie Flower Dairy	Halstead	49.6	19,222	1,340	20,039
Laverne Myers Dairy	Abilene	92.7	18,351	1,339	19,914
David Gress	Seneca	67.6	19,664	1,338	20,250
Tim Iwig	Tecumseh	63.0	19,451	1,334	20,048
Heinen Acres, Inc.	Seneca	129.2	20,846	1,331	20,333
Dean and Jim Pauly	Viola	110.8	3X 19,342	1,329	19,993

Name	Address	No. Cows	Milk	Combined Fat-Protein (lbs)	Energy Corrected Milk (ECM)
<u>HOLSTEIN CONT'D.</u>					
Lubbers Farm	Kingman	121.1	19,595	1,328	20,063
Morrison Farms	Salina	68.3	19,441	1,328	19,944
Gerald Martin	Garden Plain	48.5	20,245	1,326	20,187
Gary Boeckner	Hesston	41.4	20,236	1,325	20,107
Hartter Bros.	Bern	123.9	20,821	1,324	20,338
Greg & Duane Beemer	Abilene	109.4	18,010	1,324	19,723
Rockhome Holsteins	Hillsboro	165.5	19,203	1,323	19,836
Meyer Bros. Dairy	Hanover	52.9	19,682	1,321	19,989
Dalbom Inc.	Viola	142.5	19,923	1,318	19,903
Gary Coltrane	Laharpe	50.8	19,598	1,318	19,871
Myron Schmidt	Newton	124.7	19,691	1,316	19,962
Pauly Family Dairy	Udall	70.7	18,539	1,314	19,767
David Klausmeyer	Clearwater	70.9	19,004	1,313	19,722
Upland Farms	Walton	88.4	19,703	1,312	19,771
Galen Gerlach	Mulvane	50.3	19,333	1,311	19,844
Emma Creek Farm, Inc.	Canton	82.9	18,283	1,311	19,322
Harries Farms	Bremen	123.3	19,774	1,310	19,837
Youngers Dairy	Clearwater	66.7	19,258	1,310	19,634
Gerald J. Karber	Gypsum	98.7	19,434	1,309	19,753
Don & Kris Haverkamp	Fairview	67.7	19,180	1,307	19,690
Pretz Holstein Farms	Osawatomie	80.2	17,905	1,307	19,308
Kohake Dairy Farm	Centralia	58.2	19,408	1,304	19,731
Arley Nightingale	Canton	53.3	20,056	1,303	19,838
Wolf Dairy	Buns	139.3	19,181	1,303	19,685
Wayne Luedders	Herkimer	44.4	19,171	1,303	19,457
Lorne Kuepfer	Partridge	56.2	19,162	1,302	19,614
Douglas Unruh	Walton	42.3	19,831	1,300	19,795
James Thiessen	Hillsboro	68.0	19,059	1,300	19,451
Emmett Simon & Sons	Clearwater	171.7	3X 19,372	1,298	19,533
EV Dairy	Walton	68.4	18,734	1,297	19,484
Four Streams Dairy	Hanover	46.9	19,304	1,296	19,456
Koehn Dairy	Halstead	44.6	20,156	1,291	19,779
Cykil Dairy	Hays	70.2	19,376	1,285	19,538
Nemaha River Dairy	Seneca	71.9	19,949	1,284	19,511
Nelson & Janice Lee	Hutchinson	33.1	19,194	1,278	19,285
Wayne & D'Ann Hermes	Seneca	49.4	20,064	1,276	19,578
Rickim Dairy	Copeland	88.3	18,100	1,274	19,099
Cedar Hill, Inc.	Carlton	155.4	18,258	1,270	19,180
W-B Dairy	Peck	55.6	20,571	1,253	19,135
Funk Dairy, Inc.	Nortonville	94.1	19,643	1,247	19,013
Summit Farms, Inc.	Morrill	120.0	19,764	1,221	18,693
Fowler and Sons	Nortonville	68.5	19,374	1,214	18,681
<u>JERSEY:</u>					
Frey Jersey Farm	Wamego	87.1	15,262	1,272	18,145
John Maxwell	Atwood	33.3	14,586	1,272	18,045
Heartland Jerseys	Seneca	70.0	15,038	1,256	17,905
Harley S. Beachy	Hutchinson	123.0	3X 14,574	1,203	17,280
The Jersey Nook	Riley	39.3	14,246	1,203	17,115
Roman Yoder	Hutchinson	44.8	14,130	1,200	17,211
<u>MIXED:</u>					
John Maxwell	Atwood	28.7	22,527	1,469	22,405
Carl & Dawanna Nichols	Westphalia	70.3	17,293	1,241	18,379
Nisly, Inc.	Hutchinson	72.8	16,147	1,217	17,826

1993—DHIA SUPER COWS—1993

<i>Herd Owner</i>	<i>Name or No.</i>	<i>Points</i>
<u>BROWN SWISS</u>		
Campbell Farms	Denise	101.1
Melvin H. Nisly	Luciana	110.2
Nisly, Inc.	Bonnie	109.0
Nisly, Inc.	Nifty	107.8
Nisly, Inc.	Sheri	102.0
<u>HOLSTEIN</u>		
Allen-Schlesener	Frostie	111.3
BC&D Farms	216	108.1
BC&D Farms	257	107.5
James L. Barr	Triah	116.2
William M. Beezley	W-75Tat	114.6
William M. Beezley	B-9	106.8
Bodenhausen, Inc.	Milly	112.8
Bodenhausen, Inc.	Maureen	108.4
Samuel & Robert Bowen	145Elly	112.2
Vernice Buessing	Brenda	107.3
Currie, Inc.	26	106.9
Cykil Dairy	Misty	111.6
Dalbom, Inc.	830	113.6
Dalbom, Inc.	850	113.1
Dalbom, Inc.	566	112.5
Dalbom, Inc.	552	109.7
Gordon Dalke	87	106.4
Dan Cook	253	119.0
Davis Farms	594	117.2
Davis Farms	599	108.3
Donham Dairy	12	111.5
Donham Dairy	89	106.9
Dutchman's Dream Dairy	164	111.1
Emma Creek Farm, Inc.	486	119.6
Emma Creek Farm, Inc.	389	110.8
Emma Creek Farm, Inc.	391	105.4
David & Ilene Enneking	310	107.4
David & Ilene Enneking	259	107.3
Douglas & Lois Enneking	31	127.3
Richard J. Errebo	135	110.9
Farmland Research Farm	273	107.0
Don Fincham	36-A	105.4
Fischer Dairy	Hello	123.5
Fischer Dairy	Candy	105.1
Funk Dairy, Inc.	67	122.1
Funk Dairy, Inc.	188	112.1
Funk Dairy, Inc.	146	111.7
Ronald J. Funk	432	131.8
Ronald J. Funk	441	127.3
Ronald J. Funk	439	118.9

<i>Herd Owner</i>	<i>Name or No.</i>	<i>Points</i>
<u>HOLSTEIN CONT'D.</u>		
Ronald J. Funk	411	107.9
Gorges Dairy, Inc.	404	111.9
Gorges Dairy, Inc.	480	110.4
Gorges Dairy, Inc.	478	106.3
Harries Farms	298	108.5
Heideman Dairy	31	110.7
Carol Leo Heiman	Silk	111.6
Melvin Heiman	Card	106.7
Heinen Acres, Inc.	46-A	108.4
Hillcrest Farm	Manila	107.2
Hillcrest Farm	Jene	106.7
Hiss Brothers	1052	109.0
Hiss Brothers	1010	105.3
Hiss Brothers	1024	105.0
Hole-in-One Holsteins	Charm	112.1
J&L Dairy	334	118.2
J&L Dairy	367	107.6
J&L Dairy	361	107.6
J&L Dairy	269	106.6
J&L Dairy	355	105.6
Jeannin Farms, Inc.	1077	113.5
Jeannin Farms, Inc.	4	113.4
Jeannin Farms, Inc.	1043	107.6
Jeannin Farms, Inc.	264	107.3
Jeannin Farms, Inc.	1342	105.1
Titus & Stanley Jost	B Grace	116.1
Titus & Stanley Jost	O Toni	111.0
Gilbert P. Kaufman	Ethel	115.9
Gilbert P. Kaufman	15031	110.6
Gilbert P. Kaufman	Rory	109.6
Klassen, Inc.	944	139.9
Glen Kliever	981	105.3
Glen Kliever	91	105.3
Gene A. Knackstedt	Alice	114.3
Gene A. Knackstedt	Hallet	110.2
William Koehn, Jr.	890	106.3
Kohake Dairy Farm	210	107.7
KSU Dairy	1475	113.4
John F. Kuppetz	Jill	109.9
Ronald J. & Linda Lager	461	105.9
Jhan Larosh	21	105.1
Robert A. Lowe	Clair	106.0
Marston Dairy	Oreo	116.1
Meier Dairy	465	117.1
Meier Dairy	144	115.8
Meier Dairy	397	108.6

<i>Herd Owner</i>	<i>Name or No.</i>	<i>Points</i>
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HOLSTEIN CONT'D

Meier Dairy	521	106.5
Mueller Dairy	454	122.2
Mueller Dairy	122	113.1
Mueller Dairy	125	105.0
Curt & Scott Mueller	706	115.2
Curt & Scott Mueller	712	109.8
Curt & Scott Mueller	968	107.9
Laverne Myers Dairy	684	128.8
Nemaha River Dairy	297	111.0
Carl & Dawanna Nichols	830	105.9

Max & Marvin Niehues	839	119.8
Max & Marvin Niehues	797	109.6
Max & Marvin Niehues	820	106.7
Max & Marvin Niehues	758	105.6
Northglen Holsteins	PRCL399	115.8
Northglen Holsteins	MAND391	109.6
Northglen Holsteins	TARA292	108.8
Northglen Holsteins	PRID491	107.9
Ohlides Dairy	Felicit	111.8
Page Alderman Farms	70	107.3

Pauly Brothers	740	115.3
Alan C. Pauly	73	113.9
Bob Pauly	169	106.1
Galen W. Penner	146	108.1
Reed Dairy	3	105.0
Rickim Dairy	430	116.5
Ronald W. Rockers	74GNGER	109.9
Ronald W. Rockers	40Linda	107.3
Rockhome Holsteins	Avon	111.9
Rottinghaus Holstein Farm	Marg	126.8

Rottinghaus Holstein Farm	Alice	119.2
Rottinghaus Holstein Farm	Marcy	107.0
Rottinghaus Holstein Farm	Karo	106.4
Myron Schmidt	Pelle	105.6
Melvin Schramm	24	106.0
Ivan Strickler	1209	117.1
Ivan Strickler	615	110.2
Ivan Strickler	1491E	105.4
Ivan Strickler	95	105.1
Upland Farms	834	105.6

Wells Family Dairy	Jingle	109.8
Wheatland Holsteins	Chessy	106.7
Kenneth L. Wiebe	50	114.4
Wolf Dairy	401	106.0
Wolf Dairy	532	105.9

JERSEY

Harley S. Beachy	Pearl	100.0
Frey Jersey Farm	131	107.1
Heartland Jerseys	Carrie	107.9
John Maxwell	76	100.7
Elwood Schmidt	Berry	110.6
Elwood Schmidt	Darla	103.5

<i>Herd Owner</i>	<i>Name or No.</i>	<i>Points</i>
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JERSEY CONT'D.

The Jersey Nook	DuncanX	114.8
The Jersey Nook	Model	101.5

MILKING SHORTHORN

Melvin H. Nisly	Fliver	109.9
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RED AND WHITE

John Maxwell	410	111.7
John Maxwell	436	104.0

25 YEARS OF SERVICE...



BILL UPHAM, Junction City, was recognized March 12 at the Kansas DHIA annual meeting for 25 years of service with Geary DHIA. Starting in October 1968 with the TESA butterfat procedure, Bill has seen many changes in the services provided dairy producers, along with great increases in production per cow. Supervisor dedication has played a big role in making Kansas the leading state in production testing participation in the Great Plains and Mid-States areas.

ANNUAL CLASS LEADER LACTATIONS (305 DAYS OR LESS)
TWO HIGH INDIVIDUALS FOR COMBINED FAT & PROTEIN IN EACH AGE GROUP
LISTED 1-94

HERD OWNER	COW NAME OR NO.	AGE	MILK	COMBINED FAT & PROTEIN
<u>AYRSHIRE</u>				
Redtop Ayrshires	Sweetht	2-03	15,810	1,223
Alford-Bray Dairy	Jerimah	2-09	14,700	1,195
Fred & Noreen Altwegg	Ann	2-09	17,610	1,183
Fred & Noreen Altwegg	Sun-Day	3-02	17,560	1,233
Alford-Bray Dairy	Buns	3-03	18,770	1,208
Fred & Noreen Altwegg	Top-Soc	3-10	16,670	1,323
Seiwert Ayrshires	Lucky	3-07	17,640	1,320
Fred & Noreen Altwegg	Add-One	4-00	17,230	1,190
Kenneth Burgess	Mercede	4-03	16,360	1,000
Seiwert Ayrshires	Piper	4-07	19,350	1,312
Fred & Noreen Altwegg	Klieg	4-10	17,770	1,222
Doug Wolf	56	6-08	24,570	1,479
Alford-Bray Dairy	Pearl	8-03	17,620	1,355

<u>BROWN SWISS</u>				
Melvin Nisly	Eloise	1-11	14,950	1,223
Campbell Farms	Crystal	1-11	12,700	1,019
Melvin Nisly	Nolita	2-02	21,060	3X 1,459
Nisly, Inc.	Readin	2-01	18,500	1,394
Nisly, Inc.	Blessin	2-09	18,160	1,378
Melvin Nisly	Onya	2-06	17,570	1,373
Gary Coltrane	400	3-03	19,910	1,468
Melvin Nisly	Reyetta	3-01	16,180	1,393
Nisly, Inc.	Willa	3-07	15,660	1,241
Doug & Deb Clore	69	3-08	17,360	1,162
Nisly, Inc.	Sherri	4-00	22,360	1,822
Nisly, Inc.	Tulip	4-04	19,780	1,627
Melvin Nisly	Fairy	4-08	22,730	3X 1,715
Karen & Galen Bauman	2	4-10	18,070	1,450
Nisly, Inc.	Nadine	8-04	24,970	1,758
Nisly, Inc.	Patricia	5-05	22,190	1,748

<u>DAIRY GOAT</u>				
Ray & Nancy Songs	Dawn	0-11	2,540	171
Barbara Regehr	Cricket	0-11	1,380	115
Don Kleiner	Button	1-00	2,550	186
Salt Hawk	Primo	1-00	2,260	140
Willard William	Maura	1-09	2,630	241

HERD OWNER	COW NAME OR NO.	AGE	MILK	COMBINED FAT & PROTEIN
<u>DAIRY GOAT CONT'D</u>				
Don Kleiner	Suzi	1-11	3,510	233
Ray & Nancy Songs	Brita	2-00	3,110	250
Willard William	Mimi	2-01	3,300	249
Randy & Shirley Chapman	Bouquet	2-11	2,570	257
Leon & Donna Birmeier	Charm	2-11	2,630	255
Ray & Nancy Songs	Abby	3-02	3,750	269
Barbara Regehr	Ashly	3-01	2,610	212
Don Kleiner	Sam	3-11	4,120	265
Randy & Shirley Chapman	Bonnie	3-11	2,870	261
Chautauqua Farm	Saki	4-00	2,600	249
Ray & Nancy Songs	Abby	4-02	3,120	205
Ray & Nancy Songs	Feather	4-10	4,670	316
Leon & Donna Birmeier	Locket	4-11	3,130	291
Goddards Farm	Dove	6-11	2,590	259
Salt Hawk	Krista	6-00	4,040	224

<u>GUERNSEY</u>				
Jim & Nancy Sack	Arora	1-11	15,720	1,252
Ivan Keim	Velma	2-03	16,130	1,144
Rick & Kay Gibson	112	2-09	14,880	1,029
Jim & Nancy Sack	Faith	3-02	15,530	1,321
Ivan Keim	Vera	3-03	16,470	1,277
Jim & Nancy Sack	Leanne	3-11	18,800	1,496
Jim & Nancy Sack	Tabina	3-11	14,940	1,367
Winn Guernsey Dairy	Glitter	4-03	16,020	1,316
Ivan Keim	Donna	4-07	17,030	1,209
Jim & Nancy Sack	Sydia	9-01	17,200	1,582
Woodard Dairy Inc.	Delit	7-08	17,450	1,463

<u>HOLSTEIN</u>				
Carol & Leo Heiman	Kay Cec	1-10	23,810	1,837
Currie, Inc.	1227	1-10	26,620	1,802
Fischer Brothers	587	2-00	24,420	1,881
Rottinghaus Holstein Farm	Glow	2-02	25,710	1,755
Northglen Holsteins	PRCL 399	2-11	26,610	1,928
Simon Dairy Farm	24	2-11	26,140	3X 1,882
Richard Gress	Olga	3-04	28,300	2,195
Rottinghaus Holstein Frm	Secret	3-03	29,190	2,171

HERD OWNER	COW NAME OR NO.	AGE	MILK	COMBINED FAT & PROTEIN
HOLSTEIN CONT'D				
William M. Beezley	W-75TAT	3-11	30,680	2,253
Robert A. Lowe	Donnie	3-10	31,280	2,109
Ronald J. Funk	441	4-02	39,890	2,259
Northglen Holsteins	DNIS447	4-01	31,980	2,259
Gilbert P. Kaufman	Ethel	4-11	32,260	2,195
Mahlon Miller	Ellen	4-09	27,700	3X 2,064
William M. Beezley	OR-51	5-11	32,060	2,351
Klassen Inc.	944	9-02	33,230	2,289
Hiss Brothers	201	3-00	23,600	1,513

JERSEY

The Jersey Nook	Toby	1-10	15,690	1,490
John Maxwell	101	1-11	14,840	1,466
The Jersey Nook	Marie	2-05	18,200	1,602
Heartland Jerseys	Lana	2-00	15,020	1,410
The Jersey Nook	DBL-X	2-07	18,310	1,534
John Maxwell	82	2-11	16,550	1,453
John Maxwell	76	3-05	17,370	1,939
Heartland Jerseys	Daisy	3-02	18,510	1,527
The Jersey Nook	Noble	3-09	15,430	1,499
Heartland Jerseys	Renee	3-11	15,250	1,383
The Jersey Nook	Debby	4-05	21,360	1,993
Frey Jersey Farm	131	4-04	20,670	1,653
John Maxwell	56	4-06	20,920	1,655
Harley S. Beachy	Betty	4-10	17,110	3X 1,548
The Jersey Nook	Duncanx	5-05	24,780	1,941
Harley S. Beachy	Speck	7-03	20,090	3X 1,781

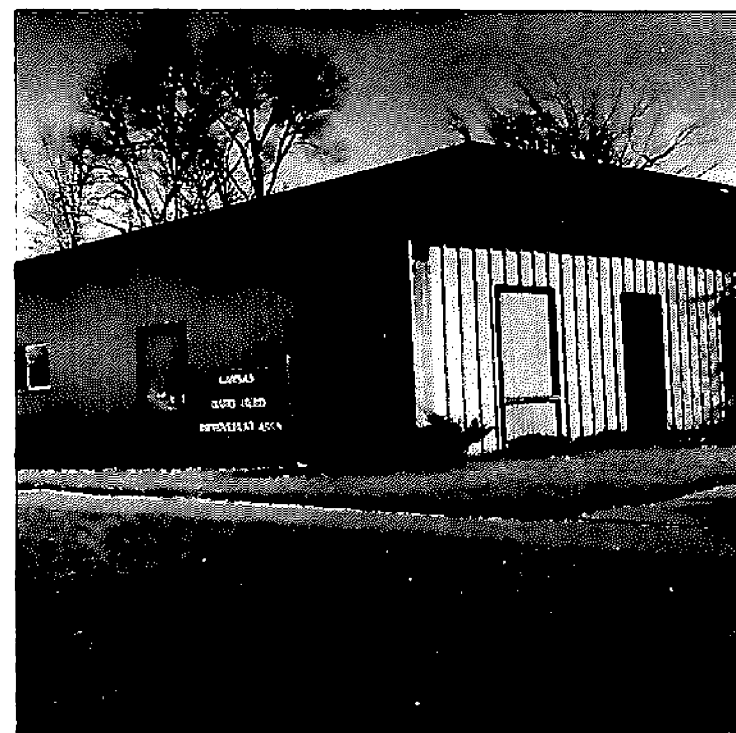
MILKING SHORTHORN

Melvin H. Nisly	Vada	2-10	15,010	1,116
Melvin H. Nisly	Taffy	2-08	16,940	1,103
Melvin H. Nisly	Indy	5-11	22,100	3X 1,173

RED-WHITE

John Maxwell	444	1-09	20,990	1,455
John Maxwell	442	1-11	19,510	1,283
James Ochampaugh	Jody	2-05	18,660	1,221
John Maxwell	440	2-01	17,130	1,175
John Maxwell	407	2-10	22,140	1,552
James Ochampaugh	Ivy	2-10	20,500	1,528
John Maxwell	412	3-07	25,550	1,470
Melvin H. Nisly	Olita	4-07	24,380	1,576
John Maxwell	410	7-09	26,940	1,727
John Maxwell	459	5-08	27,410	1,696

HERD OWNER	COW NAME OR NO.	AGE	MILK	COMBINED FAT & PROTEIN
OTHER				
James D. Lobb	149	1-06	21,540	1,242
Lorne Kuepfer	Betina	1-11	16,830	1,112
Woodard Dairy Inc.	459	2-01	24,290	1,531
Steinlage Dairy	193	2-00	22,740	1,365
Leon & Denise Seiwert	348	2-10	22,580	1,380
Anderson Farms, Inc.	Tilda	2-07	18,730	1,330
Campbell Farms	Adell	3-01	21,600	1,499
Carl & Dawanna Nichols	924	3-03	19,870	1,381
Carl & Dawanna Nichols	836	3-11	18,320	1,402
Carl & Dawanna Nichols	829	3-11	16,620	1,279
Carl & Dawanna Nichols	843	4-01	18,500	1,591
Metzger Dairy	134	4-03	22,130	1,521
Webers One "B" Dairy	187	4-06	21,000	1,472
Green Gables Dairy	729	5-04	26,370	3X 1,646
2 K Dairy	Merle	5-04	19,740	3X 1,512



1994 - STATE D.H.I.A. BOARD MEMBERS - 1994

NAME	ADDRESS	TELEPHONE
Curt Mueller	R.R. 1, Humboldt, KS 66748	(316) 473-3329
Vern Buessing	R.R. 1, Baileyville, KS 66404	(913) 336-6500
Bill Leavitt	R.R. 2, Mound City, KS 66056	(913) 795-2878
Michael Currie	348 S. Gypsum Valley Rd, Gypsum, KS 67448	(913) 536-4224
John Keller	R.R. 1, Hunter, KS 67452	(913) 529-3745
George Phillips	R.R. 2, Box 338, Holton, KS 66436	(913) 935-2310
Lavonne Wells	21601 W. 71st S., Viola, KS 67149	(316) 545-7578
David Sukup	Dairy Herd Improvement Association 628 Pottawatomie, Box 3700 Manhattan, KS 66502	(913) 539-1784

1994-DHIA SUPERVISORS' BOARD MEMBERS-1994

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(913) 735-9242

VICE PRESIDENT

Steve Lolling
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SECRETARY

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TREASURER

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BOARD MEMBER

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(316) 767-6408

THE COVER

Dale Zimmerman, Field Technician, Nemaha-Jackson DHIA was recognized for 30 years of service to production testing at the annual meeting, Kansas DHIA, March 12, at Manhattan. David W. Sukup, Kansas DHIA manager, is shown presenting Dale with the commemorative plaque.

Starting in December 1963, Dale was on the ground floor in converting from hand calculated records to data processing. As a part of the Nemaha Mastitis Control Project, Dale ran individual cow CMT or "paddle" tests for his members until electronic counting was available. Serving the largest dairy county in Kansas, herd-wise, Dale with his wife Lillian (26 years of service) tests 60 herds and 4,200 cows. Early adapters of data processing, EBS-MORE, SCC, and Bulletin Board, the Zimmermans have been very effective in providing valuable management information for dairy producers in the area.

COMPARING 1993 AND 1983

Table 7. A comparison between 1993 and 1983 of average production per cow and economic measures for Kansas DHI herds.

Item	Year		± Change (%)
	1993	1983	
Milk per cow	17,361 lb	14,381 lb	+21%
Price per cwt*	\$11.77	\$12.50	-6%
Feed cost	\$945	\$770	+23%
Income-over-feed cost	\$1,098	\$1,028	+7%
Cows per herd	73	70	+4%

*Milk price per hundred weight after hauling charge.

Table 7 compares some of the economics involved in the cost of producing milk in Kansas in 1993 with 1983 in Kansas DHI herds. Non-feed costs increased 15-19% during this period. Only through increased efficiency (yearly milk per cow) have Kansas dairy producers even begin to cope with rising costs of production. The 21% increase in production per cow is a tribute to producers adopting improved management techniques and the widespread acceptance of artificial insemination (AI). In 1993, there were 41% fewer dairies in Kansas than in 1983. While attrition is always on-going through retirements etc., the economic status of the dairy industry has discouraged new producers from entering the market and in some cases, the transfer of the dairy to the younger generation. It is noteworthy that for those producers remaining in the business that emphasis has been placed upon improved production rather than increased herd size.

SCC PROGRESS SLOW

Somatic cell counting (SCC) is widely accepted by the dairy industry as a measure of milk quality and udder health. The legal limit for bulk tank milk was established at 750,000, July 1, 1993. Figure 4 shows average SCC for Kansas DHI herds during the last 10 years. Inclement weather in late 1982 and 1983 saw a 12% increase in average SCC for 1993.

Sanitation, both in the parlor and housing, is the key to good udder health and acceptable SCC. In many cases, poor

conditions in the calving area, including access to ponds, is the primary stress in problem herds. Often the key is the average SCC of first calf heifers (L-1). Pre- and post-dipping, properly implemented, have proven to be of value along with the elimination of wash water and common rags or sponges.

In 1993, 97% of the Kansas DHI cows were enrolled in the SCC program.

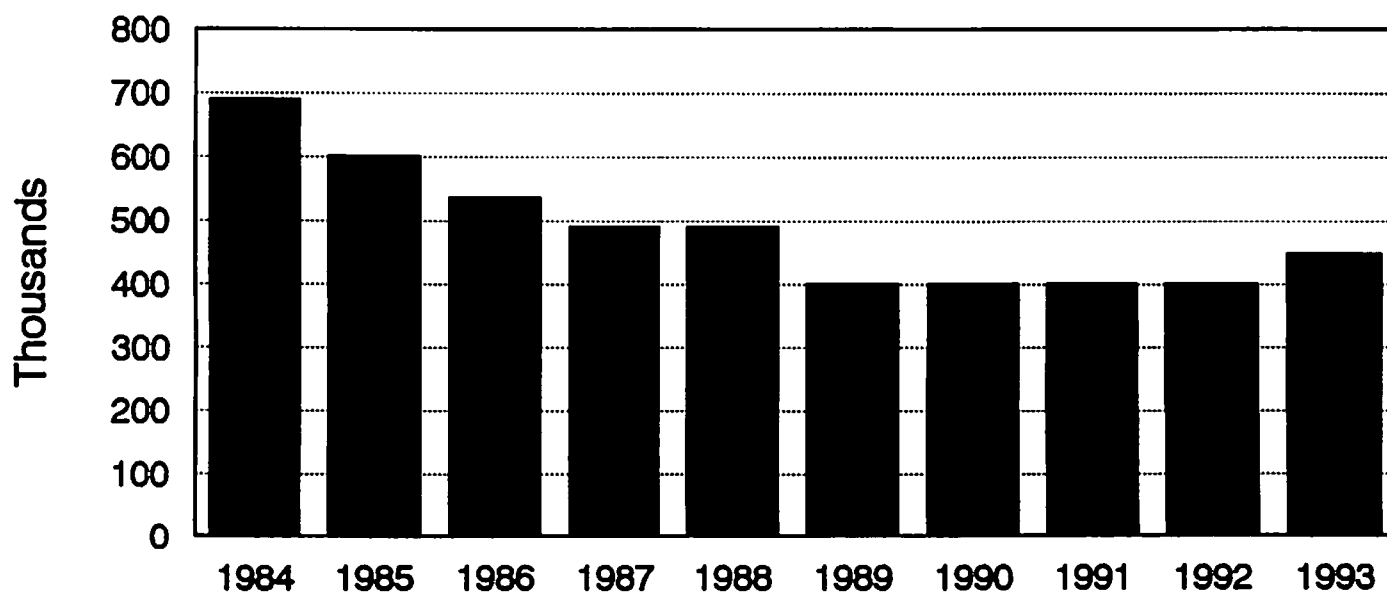
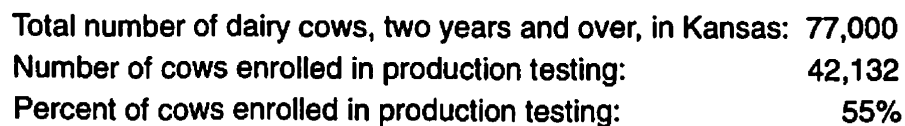


Figure 4. Changes in average somatic cell counts (SCC) in Kansas DHI herds since 1984.

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1994 - DHIA SUPERVISORS - 1994

<i>ASSOCIATION</i>	<i>NAME</i>	<i>DATE STARTED</i>
Southeast Kansas	Anita Vail	August, 1991
Allen	Cheryl Korte	July, 1989
Bourbon	Shirley Gabbert	August, 1988
Miami	Lawrence Guenther	May, 1986
Douglas-Franklin	Leroy Fouts	June 1990
	Darold Cain	June, 1990
Greenwood	Minnie Johnson	February, 1977
Cowley	Ann Kendall	July, 1988
Central Kansas	John Lubbers	June, 1993
Harvey	Ann Kendall	November, 1979
Rice-Ellsworth	Dorothy Aistrip	May, 1987
	Ann Kendall	May, 1987
Anderson	Greg Snyder	March, 1993
Golden Belt	Dorothy Aistrip	July, 1988
Western	Dorothy Aistrip	October, 1984
Reno	Kenneth Burgess	April, 1990
	Tim Tedder	March, 1988
Sedgwick	Jim Wells	March, 1988
	Gene Dunbar	May, 1990
Sumner	Tim Pauly	February, 1984
Harper-Barber	Connie Boggs	February, 1977
Rooks	Marilyn Dryden	June, 1989
High Plains	Earlene Bronson	April, 1989
	Ilene Rose	May, 1984
East Plains	Helen Davis	January, 1970
	Sheila Leiker-Page	May, 1975
Republic-Cloud	Lynn Maddy	July, 1984
	Jane Maddy	July, 1984
Washington-Marshall	Terry Ohlde	July, 1992
Smith-Jewell	Earlene Bronson	July, 1988
Solomon Valley	Marilyn Dryden	January, 1990
	Karma Habiger	November, 1975
Dickinson	Linda Emig	July, 1982
	Don Emig	July, 1982
Geary	Bill Upham	October, 1968
Brown-Doniphan	Keith Brock	June, 1957
Nemaha-Jackson	Dale Zimmerman	December, 1963
	Lillian Zimmerman	March, 1967
Marion	Richard Hiebert	April, 1980
	Galen Ensz	March, 1983
Jefferson	Don Heim	January, 1993
Kaw Valley	Vicky Hurla	October, 1978
Morris	Marvin Brockelman	November, 1984
Atchison	Kelly Franklin	November, 1989
Leavenworth	Don Heim	April, 1987

TECHNICIANS RECOGNIZED



Linda Kams and Don Helm were recognized at the 1994 Kansas DHIA annual meeting for their exemplary service to Kansas dairy producers. Linda, shown with David Sukup, Kansas DHIA manager, is the assistant laboratory manager at the Kansas DHIA headquarters in Manhattan. She is responsible for the daily routines in processing milk sample for component analysis.

Don is the field technician for both Leavenworth and Jefferson DHIA's. He has expanded the testing program during the last seven years and was an early adapter of the EBS-MORE program and the use of electronic mail. Both Linda and Don typify the dedication that is necessary to make DHIA a valuable asset to the dairy industry.

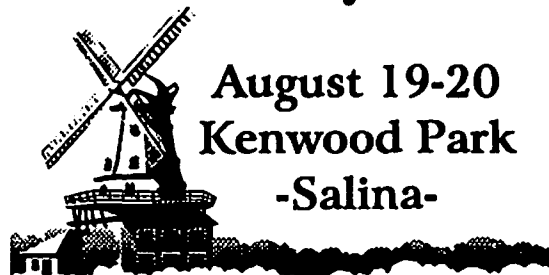
1994 SUMMER EVENTS



**Summer Holstein
Field Day
July 21**

**Douglas Unruh Family
-Walton-**

**All-Breeds
Junior Dairy Show**



**August 19-20
Kenwood Park
-Salina-**



Cooperative Extension Service

Extension Animal Sciences and Industry
Call Hall
Manhattan, Kansas 66506-1600
913-532-5654

Dear Producer:

This issue of KDEN presents the 1993 Annual Summary, Kansas Dairy Herd Improvement Program. 1993 was a memorable year because of inclement weather and poor quality forage. Production decreased by four percent from 1992 while average SCC increased 12 percent. An analysis of the average DHI herd showed a loss of -123\$ per cow in cash flow compared with 1992 (milk price and feed cost held constant). When ranked by quartiles, the high producing herds (20,653 lb) had a return to Labor and Management of \$555 per cow. The low quartile (13,148 lb) showed a loss of (\$48). Fifty-five (55) percent of the Kansas dairy cows are enrolled in the DHI program.

Sincerely,


Edward P. Call
Extension Specialist
Dairy Science



James R. Dunham
Extension Specialist
Dairy Science

KSU, County Extension
Councils and U.S. Department
of Agriculture Cooperating.
All educational programs and
materials available without
discrimination on the basis
of race, color, national
origin, sex, age, or handicap.