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KANSAS DAIRY EXTENSION NEWS

VOLUME 14 (2-3) *APRIL-JUNE, 1993*

(See page 16)

1992 ANNUAL SUMMARY

KANSAS DAIRY HERD IMPROVEMENT PROGRAM

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

KANSAS DISTINGUISHED DAIRYMAN

"Family support is critical to a dairy's success" believes Dale Bodenhausen, Muscotah, the 1993 Kansas Distinguished Dairyman. Pictured with Hank Ernst (l), Kansas Farmer Editor, Dale and Mary were recognized at the Kansas DHIA annual meeting in Salina, March 13 and presented the traditional traveling milk can.

Starting more than 40 years ago with a few cows and hand milking, Dale has developed a high efficiency herd. In 1992, the 76-cow herd ranked 10th in Kansas with an average of 21,858 lb milk and 1535 lb fat-protein. Dale and Mary have two sons in the operation. Mark handles the field work and Mike is in charge of records and the dairy. Another son, Steve, helps with the dairy as time permits. Dale is very active in dairy affairs and served as chair for the 1982 National Holstein convention.

He has served as president of Kansas Electric Power Cooperative, Inc., Kansas Holstein Association and the local cooperative.

GAINS IN 1992

Record yearly milk per DHI cow (18,116 lb) coupled with a 12% increase in milk price over 1991, produced income-over-feed cost in 1992 of $1,263 per cow enrolled in the DHI program. In 1992, the number of DHI herds (636) declined by 2% while total dairy herds (1,222) declined by 6%. The advantage of a production testing program (DHI) is readily seen by comparing tested vs non-tested cows. In 1992, all Kansas cows averaged 13,708 lb milk. The tested cows (51%) averaged + 6,420 lb more milk in 1992 compared with cows not enrolled in the production testing program.

Using the K-State Dairy Herd Analyzer program, progress in the four management areas is easily evaluated by keeping milk price and feed cost constant. The following table illustrates gains and losses on a per cow basis comparing 1992 with 1991:

Management:	Change: 1992 v 1991
Nutrition	+22$
Genetics	+2$
Milk Quality	0
Reproduction	-8$
	+16$

The improvement in nutrition resulted from yearly increase in production per cow of 386 lb. Though fewer cows were sired by proved bulls in 1992, there was a gain ($2) due to increase in genetic gain. Milk Quality (SCC) remained constant and repro-losses resulted from longer calving intervals and days dry. DHI herds have the advantage of monthly SCC on each cow to evaluate the mastitis control program.

TABLE 1. PARTICIPATION IN VARIOUS KANSAS DAIRY HERD IMPROVEMENT ASSOCIATION TESTING PROGRAMS. 1992.

Type of Program	*No of Herds (Complete Yr)*	*No of Cow Yr*	*Cows/ Herd*	*Yearly Rolling Average*				
				Milk	*%*	*Fat*	*%*	*Protein*
DHI	102	7,247	71	17,409	3.7	637	3.2	558
DHI, APT	261	19,696	75	18,025	3.6	649	3.2	577
DHI, APCS	25	2,042	82	17,583	3.7	643	3.2	567
DHIR	31	2,538	82	19,277	3.8	726	3.2	626
DHIR, APT	32	3,692	115	19,492	3.6	700	3.2	619
DHI-OS	16	655	41	16,165	3.6	579	3.2	517
DHI-OS-AP -3	44	2,744	62	16,039	3.6	571	3.2	521
DHI-AP	43	2,391	56	14,982	3.6	533	3.2	478
All Programs	555	41,090	74	17,751	3.6	642	3.2	569

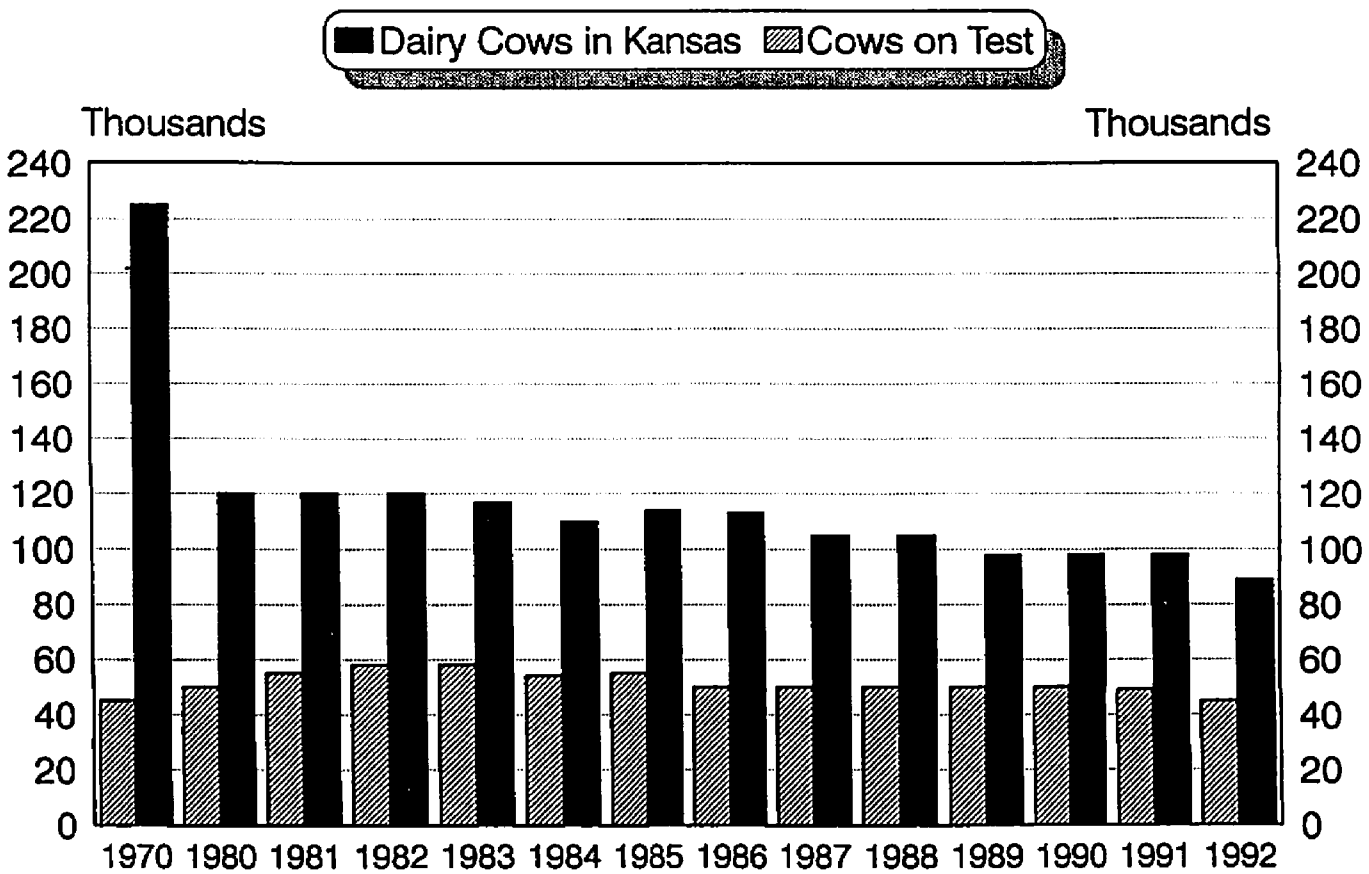

Figure 1. Total DHIA participation during the period 1970-1992.

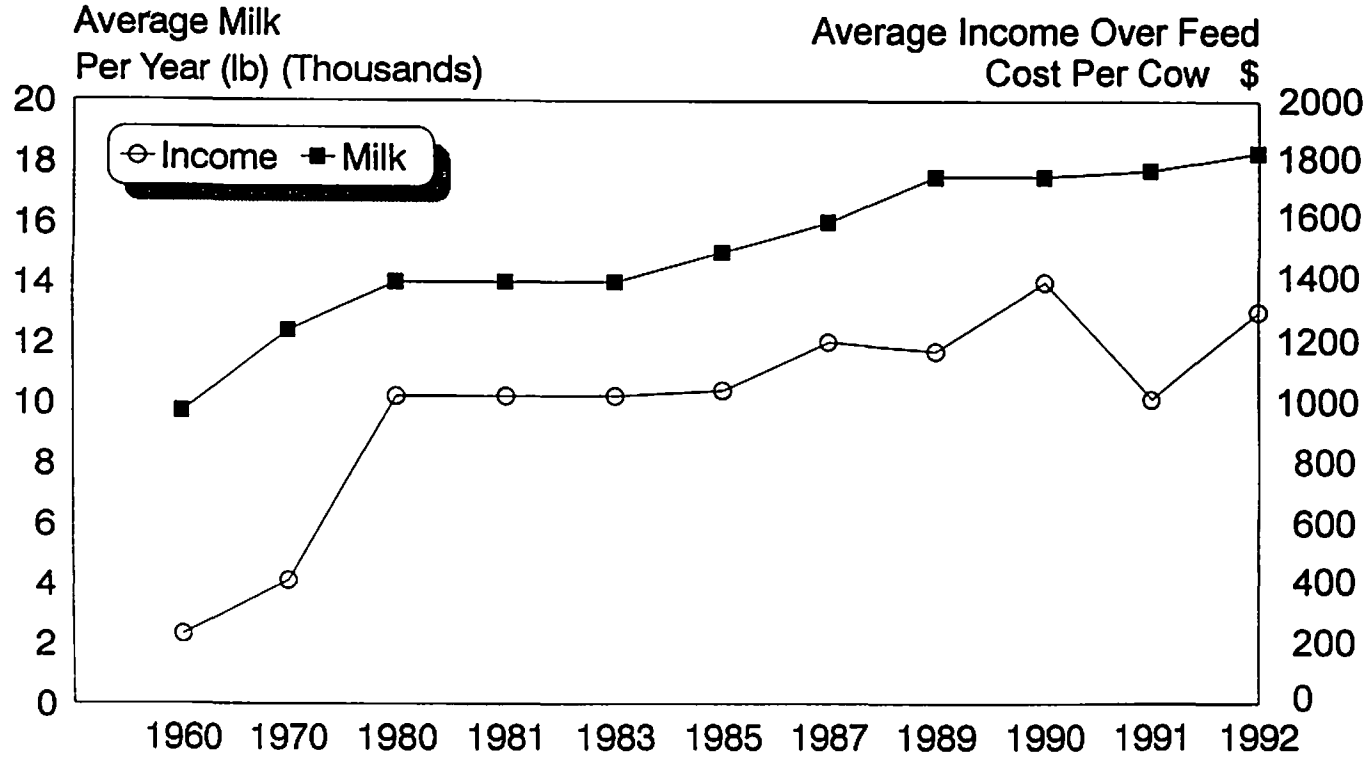

Figure 2. Production and income-over-feed cost trends, 1960-1992.

TABLE 2. STATISTICAL SUMMARY OF KANSAS OFFICIAL DHI HERDS FOR THE PERIOD 1987-1992.

Line	*Year* 1987	1988	1989	1990	1991	1992
1. Avg. milk/cow/year (lbs)	16,046	16,705	17,324	17,345	17,730	18,116
2. Number of DHI herds	540	531	510	511	478	451
3. Cows/herd, average	73	72	73	75	70	74
4. Average percent milkfat	3.7	3.7	3.7	3.7	3.6	3.6
5. Avg. percent days-in-milk	86	87	87	87	87	87
6. Grain fed/cow (lbs)	7,441	7,503	7,694	7,992	8,237	8,251
7. Succulents fed/cow (lbs)	10,114	10,371	10,160	10,761	11,319	10,800
8. Dry forage fed/cow (lbs)	4,581	4,566	4,564	4,832	4,790	4,625
9. Value of milk/cow ($)	1,880	1,882	2,123	2,338	1,966	2,251
10. Avg. milk price/cwt ($)	11.72	11.27	12.25	13.51	11.09	12.43
11. Total feed cost/cow ($)	698	821	982	959	956	988
12. Income over feed cost/cow	1,182	1,061	1,141	1,379	1,010	1,263
13. Feed cost/cwt milk ($)	4.35	4.91	5.67	5.53	5.40	5.44

Among DHI herds, average production increased to 18,116 lb milk while herds enrolled decreased 2.0%. Income-over-feed cost increased $253 per cow due to 12 percent increase in milk price. Feed costs have remained relatively constant since 1989. The effect of yearly milk production on efficiency is illustrated in Table 3, page 5.

COWS MORE EFFICIENT AT HIGHER MILK LEVELS

Dairy cows convert feed into milk more profitably and efficiently at higher levels of yearly production even though it takes more feed. Table 3 ranks Kansas Holstein herds by quartile. Group 4 (high) produced 53% more milk than Group 1 (low) while feed costs increased only 35%. While milk price was nearly the same among groups, income-over-feed costs increased 79% between the low and high groups. Maintenance costs (feed) are the same for cows of equal body size (line 4). Extra feed for production is converted very efficiently into milk if the cows have the genetic ability to respond. Line 16 expresses this efficiency another way with a 10% decline in Feed Cost/CWT MILK between Groups 1 and 4.

TABLE 3. STATISTICAL SUMMARY OF KANSAS HOLSTEIN HERDS GROUPED BY PRODUCTION LEVEL, 1992.

Line	Group 1	Group 2	Group 3	Group 4
1. Average milk/cow/year (lbs)	13,445	16,470	18,213	20,614
2. Average fat/cow/year (lbs)	485	590	657	738
3. Average protein/cow/year (lbs)	436	529	583	652
4. Average body wt. (lb)	1,233	1,278	1,281	1,297
5. Cows/herd, average	57	72	81	89
6. Average percent milkfat	3.6	3.6	3.6	3.6
7. Average percent protein	3.2	3.2	3.2	3.2
8. Percent days in milk	82	85	87	87
9. Grain fed/cow (lbs)	6,828	8,193	8,626	8,638
10. Milk lbs/lbs grain	1.97	2.01	2.11	2.40
11. Succulents fed/cow (lbs)	8,846	9,070	10,165	12,866
12. Dry forage fed/cow (lbs)	5,191	5,451	4,942	3,869
13. Value of milk/cow ($)	1,634	2,025	2,270	2,573
14. Total feed cost/cow ($)	788	943	988	1,061
15. Income over feed cost/cow ($)	846	1,082	1,282	1,512
16. Feed cost/cwt milk ($)	5.81	5.65	5.42	5.23

TABLE 4. AVERAGE PREDICTED TRANSMITTING ABILITY VALUES FOR BULLS, JANUARY 1993.

Breed	Active AI Bulls				Non-AI Bulls			
	Number	PTAM	PTAF	MFP$	Number	PTAM	PTAF	MFP$
		(lb)	(lb)	($)		(lb)	(lb)	($)
Ayrshire	22	+884	+33	+110	59	+265	+12	+35
Guernsey	34	+1033	+45	+136	101	+349	+15	+45
Holstein	549	+1808	+60	+211	5136	+521	+18	+62
Jersey	65	+1376	+58	+177	416	+311	+17	+45
Brown Swiss	32	+994	+42	+133	76	+158	+7	+22
Milking Shorthorn	7	+1315	+41	+147	16	+204	+9	+30
Red and White	27	+1646	+49	+184	76	-150	0	-12
All Breeds	736	+1661	+57	+196	5880	+487	+18	+59

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

Repro-losses continue to have a marked impact on the efficiency of dairy production and accounted for 33% of the management losses in 1992. Elongated freshening intervals were responsible for 59% of the repro-losses with age at first calving (27 mo) contributing 23%. Days dry (66) and services per conception (2.1) combined for the remaining 18% of the losses associated with reproductive management.

Days to first service (83) is the primary cause of long calving intervals. EBS-MORE COWS TO BREED is an excellent way to monitor, cows not bred - but should be - on a monthly basis. Synchronization schemes provide an opportune way of getting cows serviced and significantly reduce days to first service (and freshening interval).

AI - A GOLDEN OPPORTUNITY

Artificial insemination (AI) is the best "buy" in the dairy industry! The current sire proving system accurately identifies truly superior sires and takes the guess work out of genetic improvement. Table 4 (page 5) compares AI proved sires with "natural" proved bulls and shows the tremendous difference in milk production as measured by extra value of milk produced (MFP$) in favor of AI sired cows. The average difference (+$137) for all breeds is further enhanced by selecting AI bulls in the higher percentiles (+80% tile).

AI has the further advantage in breeding heifers in that they may be selectively serviced to ease of calving sires to insure that the average age at calving is 24 months.

TABLE 5. BREED AVERAGES FOR ALL DHI HERDS, 1992.

Breed	Number Herds	Number Females	Rolling Yearly Avg Milk (lb)	Fat (lb)	Protein (lb)	Inc/FC ($)	Freshening Interval (Days)	Days in Milk (%)
Ayrshire	45	1,926	13,685	527	465	989	401	84
Brown Swiss	126	5,806	14,331	575	515	1,127	405	86
Guernsey	82	3,444	13,020	589	464	1,052	420	87
Holstein (Kansas)	431	35,215	18,116	657	580	1,263	410	86
Jersey	174	8,915	12,314	568	463	1,073	394	86
Mixed	138	6,365	14,579	547	489	1,132	401	86
Milking Shorthorn	23	780	13,531	466	447	1,023	386	84
Dairy Goats	64	1,026	1,885	69	60	345	346	76

**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 Milk (lb)	%	Fat (lb)
Ayrshire				
1987	12	12,456	3.9	492
1988	12	12,698	3.9	490
1989	9	12,854	3.9	497
1990	7	13,074	3.9	504
1991	7	13,058	3.9	503
1992	6	13,262	3.9	515

Breed	No. Herd	Rolling Yearly Avg Milk (lb)	%	Fat (lb)
Jersey				
1987	15	11,023	4.7	517
1988	14	11,726	4.7	547
1989	16	11,843	4.7	559
1990	16	12,249	4.6	567
1991	19	12,224	4.7	571
1992	16	12,799	4.6	594

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

Breed	No. Herd	Rolling Yearly Avg Milk (lb)	%	Fat (lb)
Brown Swiss				
1987	8	10,889	4.1	443
1988	8	11,706	4.0	472
1989	8	12,415	4.0	497
1990	5	12,344	3.9	483
1991	5	13,158	3.9	515
1992	5	13,356	4.1	546
Guernsey				
1987	10	11,370	4.5	515
1988	10	11,981	4.6	546
1989	9	12,601	4.7	586
1990	7	12,597	4.4	557
1991	6	13,575	4.3	590
1992	5	12,227	4.5	554
Holstein				
1987	485	16,333	3.6	593
1988	476	16,983	3.6	616
1989	458	17,608	3.7	651
1990	465	17,607	3.6	639
1991	431	18,018	3.6	651
1992	411	18,197	3.6	655
Mixed				
1987	9	12,687	3.8	486
1988	11	14,403	3.9	564
1989	10	15,929	3.9	623
1990	9	14,595	3.9	566
1991	8	15,004	3.9	582
1992	8	15,605	3.8	598
Goats				
1987	20	1,781	3.9	69
1988	14	1,729	3.9	68
1989	11	1,933	3.6	75
1990	14	1,863	3.7	69
1991	15	1,822	4.0	73
1992	13	1,785	4.0	72
All Breeds (Cows)				
1987	540	16,046	3.7	587
1988	531	16,705	3.7	611
1989	510	17,324	3.7	645
1990	511	17,345	3.7	633
1991	478	17,730	3.6	645
1992	451	18,116	3.6	657

SUMMARY OF KANSAS DAIRY HERD IMPROVEMENT ASSOCIATIONS. (DHI HERDS) 1992

Association	No. Herd	No. Cow Year	Rolling Yearly Avg Milk (lb)	Fat+Prot (lb)
Southeast	6	671	17,940	1,212
Labette	1	86	20,542	1,392
Allen	9	969	18,354	1,225
Bourbon	9	879	18,520	1,250
Coffey	4	263	18,269	1,244
Miami	4	227	17,385	1,230
Douglas-Franklin	17	1,393	17,710	1,213
Greenwood	6	647	16,231	1,129
Cowley	5	600	17,674	1,211
Central	33	2,558	19,263	1,307
Harvey	17	1,117	18,515	1,265
Rice-Ellsworth	2	97	16,693	1,123
Anderson	10	739	16,796	1,177
Golden Belt	2	365	18,910	1,312
Western	5	415	16,933	1,167
Reno	31	1,907	18,318	1,267
Sedgwick	32	3,071	18,705	1,273
Sumner	5	364	19,181	1,315
Harper-Barber	2	297	20,200	1,356
Rooks	6	430	17,699	1,183
High Plains	11	928	17,650	1,232
East Plains	16	1,118	17,321	1,172
Republic-Cloud	12	877	16,436	1,130
Washington-Marshall	20	1,491	18,749	1,264
Smith-Jewell	7	536	14,382	993
Solomon Valley	13	742	16,802	1,125
Dickinson	14	1,063	18,221	1,278
Geary	11	815	16,395	1,181
Brown-Doniphan	10	709	17,626	1,177
Nemaha-Jackson	50	3,536	19,317	1,312
Marion	36	2,788	18,671	1,289
Jefferson	6	446	17,255	1,137
Kaw Valley	6	322	17,111	1,217
Morris	14	878	16,817	1,168
Atchison	9	553	16,334	1,116
Leavenworth	9	1,123	17,950	1,174

SUMMIT MILK YIELD DICTATES YEARLY MILK

Yearly milk production per cow (and profit) is highly correlated with Summit Milk Yield (SMY). SMY is calculated by averaging the two higher milk weights from the first three test day weights on each cow. As SMY increases one (1) pound, yearly milk per cow (Rolling Herd Average - RHA) increases about 300 pounds.

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 a given time period (Days In Milk) as noted in Figure 3. Figure 3 shows the SOLP for Kansas Holstein herds by quartiles. Only higher producing herds (20,614; 18,213) show an increase in production from early lactation (< 50 to 50-100 days). No matter the SMY level, once lactation progresses, all cows decline at about the same rate (0.1 lb milk/day).

While Figure 3 represents herd averages, lactation curves are similar for cows within a herd. Voluntary culling of lower producers is essential to make dairying the most profitable. In most case, cows produce about one-half (½) of the yearly production in the first 120 days (4-mo) of lactation. Comparing all cows in the herd with their herdmates at four months into lactation is an excellent way to establish a monthly culling list, especially those cows greater than (-)2,000 lb milk for the lactation.

Bottom line. Cows convert feed into milk more efficiently at higher levels of yearly production. Even though it takes more feed to produce more milk, Figure 3 shows that the income-over-feed cost increases dramatically (79%) when the low and high quartile herds are compared. One cost that is common to all herds of the same breed is the feed required for cow maintenance. It is only the additional feed offered above maintenance that can be used to make milk!

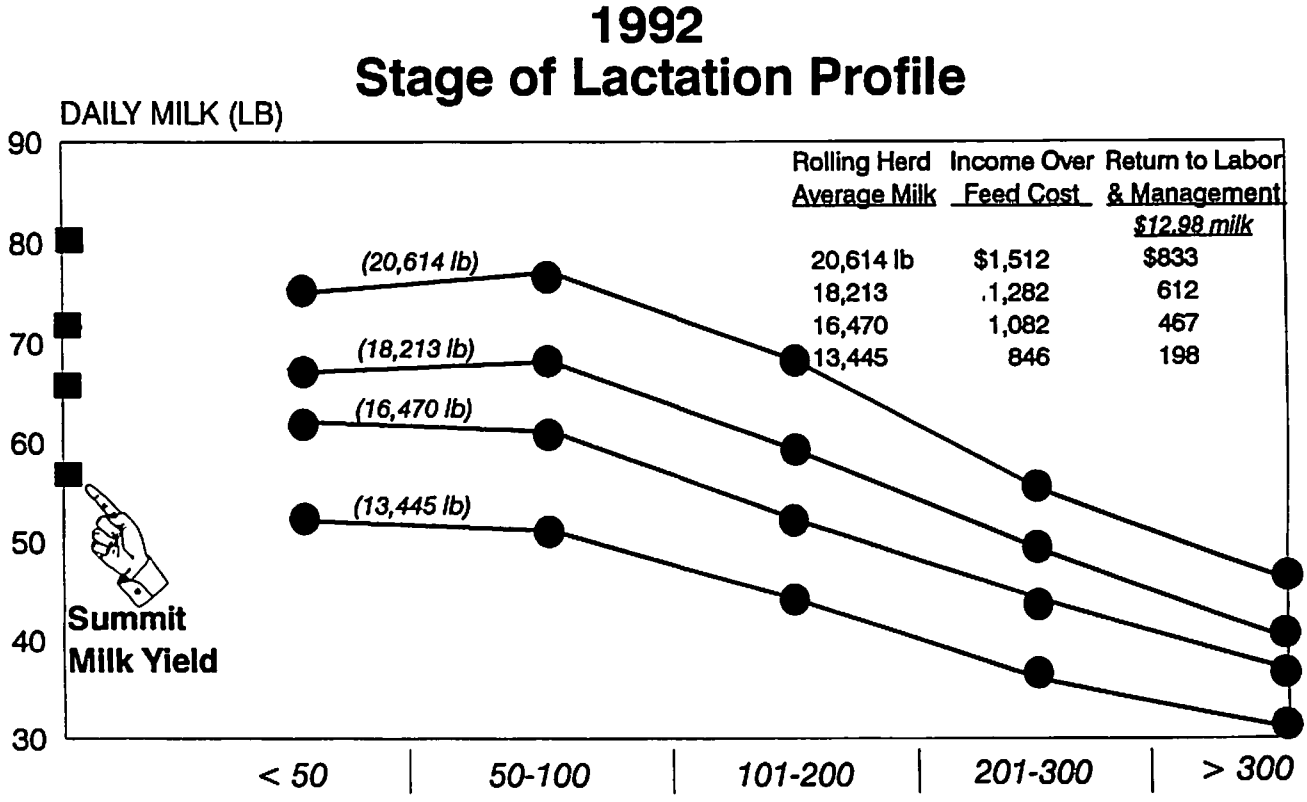

Figure 3. Summit Milk Yield (■), Lactation Profiles (●) and income-over feed cost for Kansas Holstein Herds at Various Levels of Rolling Herd Averages (milk per cow per year)

1992 - HIGH HERDS -1992

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	Energy Corrected Milk (ECM)
				(lbs)		
AYRSHIRE:						
Seiwert Ayrshires	Garden Plain	11.1		16,035	1,158	17,204
Ke-Mar-Lee Ayrshire Farm	Hutchinson	17.3		14,308	1,044	15,324
BROWN SWISS:						
Nisly Inc.	Hutchinson	71.4		16,804	1,279	18,740
GOATS:						
Ray & Nancy Songs	Wamego	8.2		3,519	240	3,638
Randy & Shirley Chapman	Glasco	6.5		2,561	236	3,267
Leon & Donna Birmeier	Leonardville	11.6		2,275	217	3,037
Salt Hawk	Hutchinson	10.4		3,077	167	2,651
Wallace Lindenmuth	Wichita	8.5		2,176	167	2,414
Willard William	St. George	13.5		2,007	165	2,368
Judy L. Nida	Wichita	5.5		2,053	131	2,011
J.F. Roach	Wichita	5.0		2,110	128	1,980
GUERNSEY:						
Jim & Nancy Sack	Baldwin	47.9		13,598	1,142	16,349
Nancy Hjetland	Topeka	8.9		13,166	1,090	15,724
HOLSTEIN:						
Ronald J. Funk	Valley Falls	59.9		26,624	1,677	25,725
Richard Gress	Seneca	95.1		24,139	1,646	24,897
Crist H. Yoder	Hutchinson	39.8		23,399	1,628	24,427
J&L Dairy	Moundridge	81.8		23,055	1,607	23,980
Forsberg Bros.	Assaria	109.2		22,535	1,600	23,880
Holste Homestead Inc.	Ludell	64.3		23,182	1,583	23,825
Gorges Dairy Inc.	Garden Plain	103.6	3X	23,415	1,579	23,838
Klassen Inc.	Hillsboro	230.3		22,317	1,579	23,623
Darrell & Donna Heinen	Axtell	48.9		23,016	1,559	23,506
Hillside Dairy Farm	Peabody	72.8		23,115	1,556	23,632
Currie Inc.	Gypsum	151.0		22,459	1,555	23,284
Richard Buessing	Axtell	53.3		23,944	1,544	23,575
Meier Dairy	Palmer	89.5		22,526	1,539	23,150
Marvin Steinlage	Goff	99.3		22,913	1,529	23,124
Gilbert P. Kaufman	Moundridge	157.8		21,626	1,528	22,892
Mueller Dairy	Tampa	92.4		22,638	1,524	23,016
Robert Kaufman	McPherson	34.7		22,695	1,523	22,895
Paul & Bob Seiler	Valley Center	109.9		22,672	1,519	23,060
Ohldes Dairy	Linn	119.8		22,028	1,509	22,720
Ronald J. Miller	Hutchinson	9.8		21,074	1,499	22,347
Willard Helmuth	Hutchinson	12.1	3X	22,385	1,493	22,733
Fischer Brothers	Beattie	75.3		22,072	1,490	22,546
Andyacres Holstein Farm	White City	58.4		21,926	1,490	22,446
Ronald W. Rockers	Greeley	100.4	3X	21,885	1,484	22,366
Harvey D. Nisly	Partridge	87.6	3X	22,437	1,483	22,557
Mahlon Miller	Hutchinson	81.9	3X	21,323	1,475	22,239
Laverne Myers Dairy	Abilene	91.0		20,532	1,472	21,999
Rottinghaus Holstein Farm	Seneca	189.9		21,447	1,471	22,176
Melvin Heiman	Baileyville	47.8		22,000	1,470	22,395

Name	Address	No. Cows		Milk	Combined Fat-Protein	Energy Corrected Milk (ECM)
				(lbs)		
Pauly Family Dairy	Udall	71.5		20,397	1,467	22,102
Robert A. Lowe	Prescott	145.9		22,961	1,464	22,252
Linsey Dairy	Lebo	61.3		21,570	1,457	21,989
Bodenhausen, Inc.	Muscotah	85.5		20,897	1,457	21,797
Roman Beachy	Hutchinson	73.5		21,140	1,456	21,743
Roesler-Eickholt Farms	Junction City	39.0		20,872	1,456	21,874
Titus & Stanley Jost	Newton	74.5		21,009	1,455	21,992
Reith Dairy	Linn	83.9		21,294	1,454	22,009
Wayne Cook	Hope	71.4		19,819	1,446	21,527
Alvin S. Beachy	Hutchinson	75.2		21,434	1,442	21,813
Hole-in-One Holsteins	Goddard	59.0		21,303	1,441	21,723
Max & Marvin Niehues	Goff	97.6		21,101	1,440	21,638
Cletus Haverkamp	Seneca	125.9		21,126	1,438	21,770
Green Gables Dairy	McPherson	44.9	3X	21,176	1,436	21,697
Rottinghaus Family Dairy	Seneca	84.2		21,294	1,434	21,698
Schmitz Holstein Farm	Axtell	39.4		21,240	1,434	21,675
Hillcrest Farm	Newton	41.7		20,958	1,433	21,604
Cykil Dairy	Hays	70.5		21,376	1,431	21,755
Fischer Dairy	Frankfort	78.4		21,741	1,429	21,791
Northglen Holsteins	Hays	142.6		20,563	1,427	21,340
Carol Leo Heiman	Baileyville	86.7		21,127	1,423	21,541
Ronald Strauss	Junction City	82.9		20,814	1,421	21,390
Tauy Creek Holsteins	Baldwin City	86.9		20,761	1,421	21,338
Youngers Dairy	Clearwater	68.9		21,552	1,420	21,417
2 K Dairy	Moundridge	124.2	3X	21,297	1,415	21,321
Curt & Scott Mueller	Humboldt	81.5		21,061	1,410	21,340
William Koehn Jr.	Burns	87.3		20,260	1,409	21,272
Ronald Coltrane	LaHarpe	115.7		21,829	1,408	21,456
Lubbers Farm	Kingman	125.1	3X	21,109	1,407	21,323
Gregg & Shelly Sexton	Abilene	30.0		19,960	1,405	21,185
Davis Farms	Fort Scott	170.5		20,906	1,400	21,315
Keith & Donna Olson	Alta Vista	35.2		20,812	1,400	21,198
Wayne Luedders	Herkimer	48.8		19,824	1,400	20,858
Coe Dairy	Soldier	84.0		20,508	1,396	20,955
Dennis & Voiland Engle	Abilene	26.6		21,211	1,395	21,149
Heinen Acres, Inc.	Seneca	128.0		21,128	1,395	21,139
Lane Holsteins	Colwich	72.7		19,851	1,394	20,789
Wayne Bozman	Edna	85.6		20,542	1,392	20,954
George & Sarah Phillips	Holton	33.8		21,011	1,391	21,135
Leon K. Kremeier	Hillsboro	54.3		20,278	1,388	20,920
Samuel D & Robert D. Bowen	Hiawatha	52.5		20,161	1,386	20,867
Arley Nightingale	Canton	57.6		20,801	1,382	21,007
David & Ilene Enneking	Centralia	57.6		20,699	1,382	20,980
Whitehill's La-Par Dairy	Latham	157.6		20,214	1,381	20,768
Bill & Joyce Boeckman	Goff	40.6		21,133	1,380	21,078
Rickim Dairy	Copeland	102.5		19,926	1,380	20,741
Keith Dalbom and Sons	Viola	150.1		20,344	1,379	20,744
William M. Beezley	Girard	203.5		21,182	1,378	20,879

Name	Address	No. Cows	Milk	Combined Fat-Protein (lbs)	Energy Corrected Milk (ECM)
Dean and Jim Pauly	Viola	126.3 3X	20,326	1,377	20,833
Dandes Holstein Farm	White City	30.7	19,023	1,377	20,373
BevanJogene Dairy	Peabody	15.0	21,203	1,376	20,986
Upland Farms	Walton	92.8	20,657	1,376	20,802
Schreiner Farms	Sharon	218.7 3X	20,338	1,374	20,471
Don Deters	Vermillion	68.7	20,301	1,374	20,769
Douglas Unruh	Walton	37.8	20,987	1,371	20,857
Eldon Andres	Peabody	84.7	21,238	1,367	20,789
Lorne Kuepfer	Partridge	59.0	19,866	1,367	20,599
Davidson Bros.	Hope	77.6	19,497	1,365	20,522
Douglas & Lois Enneking	Bern	58.7	20,389	1,361	20,710
Robert H. Siemens	Halstead	83.7	19,849	1,361	20,384
Greg J. Simon	Viola	44.8	19,986	1,360	20,519
Galen W. Penner	Hillsboro	55.7	19,945	1,360	20,535
Hartter Bros.	Bern	139.5	21,026	1,359	20,795
David Gress	Seneca	60.5	19,905	1,358	20,478
Hermesch Bros. Dairy	Seneca	43.2	20,398	1,353	20,488
Dennis & Linda Frazee	Sabetha	39.2	19,333	1,349	20,359
Simon Dairy Farm	Colwich	308.4 3X	19,616	1,347	20,374
Nemaha Valley Hol. Farm	Seneca	119.1	19,600	1,345	20,291
Gary Boeckner	Hesston	49.5	20,505	1,343	20,405
Heideman Dairy	Corning	79.4	19,452	1,342	20,221
W-B Dairy	Peck	54.9	20,750	1,340	20,280
Emma Creek Farm, Inc.	Canton	85.4	18,965	1,340	19,840
Donham Dairy	Gardner	125.5	19,506	1,339	19,970
EV Dairy	Walton	71.7	19,301	1,339	20,138
Dalinghaus Dairy	Baileyville	50.6	19,657	1,338	20,270
Richard Enns	Hillsboro	59.6	20,245	1,337	20,329
James L. Barr	Lebo	93.5	21,396	1,329	20,533
Greg & Duane Beemer	Abilene	107.6	18,123	1,316	19,593
Koehn Dairy	Halstead	41.5	20,384	1,297	19,787
Dee Swayne	Damar	56.0	20,194	1,265	19,276
JERSEY:					
The Jersey Nook	Riley	36.0	17,376	1,470	20,981
John Maxwell	Atwood	37.2	14,504	1,277	18,094
Frey Jersey Farm	Wamego	85.5	15,333	1,237	17,784
Roman Yoder	Hutchinson	46.0	13,902	1,182	16,943
Heartland Jerseys	Seneca	62.6	14,120	1,173	16,864
MIXED:					
Melvin H. Nisly	Hutchinson	120.2 3X	18,046	1,287	19,164

1992—DHIA SUPER COWS—1992

Herd Owner	*Name or No.*	*Points*
BROWN SWISS		
Campbell Inc.	Denise	100.1
Nisly Inc.	Nadine	119.3
Nisly Inc.	Nifty	107.7
Nisly Inc.	Luciana	106.7
Nisly Inc.	Bonnie	104.6
Gerry G. Schrag	Favor	105.6
Gerry G. Schrag	Feather	105.4
HOLSTEIN		
Anderson Farms Inc.	Salty	108.5
Eldon Andres	Ronda	115.8
Bar-Box Ranch Inc.	225	107.2
Roman Beachy	Jana	109.2
William M. Beezley	B-9	114.0
Bodenhausen, Inc.	Milly	108.6
Samuel & Robert Bowen	145-Ell	115.2
Richard Buessing	Rhonda	115.6
Vernice Buessing	Daisy	111.0
Vernice Buessing	Elf	107.2
John Coen	Iris	111.1
Wayne Cook	253	118.8
Wayne Cook	243	109.7
Currie Inc.	67	113.1
Currie Inc.	46	112.9
Currie Inc.	17	111.4
Currie Inc.	M111	108.7
Currie Inc.	41	105.4
Keith Dalbom and Sons	566	110.9
Keith Dalbom and Sons	552	110.4
Keith Dalbom and Sons	408	110.1
Davis Farms	594	125.5
Davis Farms	506	115.5
Davis Farms	599	112.4
Davis Farms	557	108.8
Donham Dairy	12	105.9
Emma Creek Farm Inc.	389	116.1
Emma Creek Farm Inc.	391	114.3
David & Ilene Enneking	259	105.9
Richard J. Errebo	135	109.9
Richard L. Faris	Sunny	115.1
Fischer Brothers	415	107.3
Fischer Brothers	423	106.8
Fischer Dairy	Hello	131.3
Fischer Dairy	Candy	113.1
Fischer Dairy	Pearly	107.6
Merle D. Fitzgerald	149	105.0
Fours Streams Dairy	Rocky	109.7
Fowler and Sons	Libby	106.1
Funk Dairy Inc.	67	121.5
Funk Dairy Inc.	146	116.8
Funk Dairy Inc.	188	108.9
Funk Dairy Inc.	154	105.8

Herd Owner	*Name or No.*	*Points*
Lloyd A. Funk	Tippy	106.6
Ronald J. Funk	432	131.5
Ronald J. Funk	408	114.6
Ronald J. Funk	411	105.0
Gorges Dairy Inc.	404	116.7
Gorges Dairy Inc.	480	109.8
Gorges Dairy Inc.	478	105.1
Richard Gress	Cola	108.8
Gary Hammond	51	106.4
Harries Farms	251	105.2
Cletus Haverkamp	42	120.4
Carol Leo Heiman	Silk	116.8
Melvin Heiman	Sly	115.2
Heinen Acres, Inc.	46-A	119.1
Cory Heiniger	Rocky	109.1
Hillcrest Farm	Sonata	115.2
Hillcrest Farm	Jene	110.9
Hillcrest Farm	Signal	109.7
Hillcrest Farm	Sly	106.4
Hillcrest Farm	Manila	105.9
Hiss Brothers	905	105.3
Hole-in-One Holsteins	Charm	115.5
Holste Homestead Inc.	53	106.1
Holste Homestead Inc.	105	105.6
J&L Dairy	46	120.2
J&L Dairy	53	114.2
J&L Dairy	110	110.3
J&L Dairy	269	107.9
Jeannin Farms Inc.	1343	135.3
Jeannin Farms Inc.	1043	112.6
Jeannin Farms Inc.	1342	106.0
Stanley Johnson	Judy	109.9
Titus & Stanley Jost	B Grace	114.4
Titus & Stanley Jost	B Gloria	108.8
Titus & Stanley Jost	Arlinda	106.0
Titus & Stanley Jost	Pet	105.3
Gilbert P. Kaufman	Perlita	118.2
Gilbert P. Kaufman	Ethel	107.8
Gilbert P. Kaufman	15031	107.4
Robert Kaufman	Dayla	109.6
Klassen Inc.	944	142.5
Klassen Inc.	192	122.8
Klassen Inc.	217	119.2
Glen Kliewer	981	105.3
Gene A. Knackstedt	Alice	107.2
William Koehn Jr.	861	108.8
KSU Dairy	1475	114.1
KSU Dairy	1460	111.0
KSU Dairy	1690	107.6
KSU Dairy	1527	107.0
John F. Kuppetz	Jill	112.2
Ronald J. & Linda Lager	461	108.1
Jhan Larosh	21	106.3

Herd Owner	Name or No.	Points
HOLSTEIN CONT'D		
Lehman Bros.	309	105.5
Lehman Farms	Prin	106.7
Lin-Lea Farms Inc.	Hale	105.2
Robert A. Lowe	Clair	106.6
Dennis & Edna Mader	Quiver	111.8
Marston Dairy	Oreo	121.8
Lawrence Mayer	Edna	105.1
Meier Dairy	397	123.2
Meier Dairy	429	117.2
Meier Dairy	56	116.1
Meier Dairy	144	115.1
Meier Dairy	444	112.2
Meier Dairy	236	110.3
Lowell L. Miller	Ricky	106.1
Mueller Dairy	454	126.8
Curt Mueller	706	112.1
Curt Mueller	712	106.7
Curt Mueller	540	105.5
Laverne Myers Dairy	684	129.7
Laverne Myers Dairy	647	109.1
Laverne Myers Dairy	464	108.0
Laverne Myers Dairy	546	107.9
Carl & Dawanna Nichols	830	105.7
Max & Marvin Niehues	682	119.0
Max & Marvin Niehues	758	107.6
Harvey D. Nisly	26Eppy	107.8
Harvey D. Nisly	56Maria	107.4
Northglen Holsteins	Mand327	109.0
Northglen Holsteins	Prid250	107.0
Northglen Holsteins	Prud409	105.2
James Ochampaugh	Raye	109.5
Ohldes Dairy	56	124.3
Ohldes Dairy	Puma	120.1
Pauly Brothers	740	114.2
Alan C. Pauly	73	114.8
Bob Pauly	622	110.5
Bob Pauly	778	108.9
George & Sarah Phillips	Zoe	109.9
Larry Ratzlaff	Lena	116.8
Reith Dairy	Vicki	108.0
Reith Dairy	77G	105.5
Rickim Dairy	430	119.4
Rickim Dairy	523	111.7
Rickim Dairy	161Jodi	105.9
Ronald W. Rockers	74Gnger	110.9
Rockhome Holsteins	Taffy	106.3
Rockhome Holsteins	Alma	105.1
Rottinghaus Holstein Farm	Cherry	141.1
Rottinghaus Holstein Farm	Marg	131.1
Rottinghaus Holstein Farm	Marcy	117.2
Rottinghaus Holstein Farm	Alice	113.4
Rottinghaus Holstein Farm	Mee-Mee	112.2
Rottinghaus Holstein Farm	T-D	106.6
Myron Schmidt	Pelle	105.7
Ralph & Jeanne Schmidt	Odette	107.0
Rodger Schneider	Kizzy	105.0
Paul & Bob Seiler	Pegon15	114.8
Gregg & Shelly Sexton	Bea	108.3
Robert H. Siemens	Bubbles	107.8
Ivan Strickler	1172E	126.5
Ivan Strickler	1209	117.9
Ivan Strickler	95	105.2
Tauy Creek Holsteins	Speckle	121.0
Upland Farms	834	105.7
Wells Family Dairy	Jingle	108.8
Whipple Valley Dairy	425	107.3
Wiebe Dairy	YB-55	108.7
Wolf Dairy	520	108.9
Allen Woodward	Darla	111.0
Crist H. Yoder	Toni	107.2
JERSEY		
Frey Jersey Farm	100	113.6
Frey Jersey Farm	55	107.5
Frey Jersey Farm	92	100.1
Heartland Jerseys	Carrie	107.8
Nichols Dairy	759	112.2
Elwood Schmidt	Belita	108.9
The Jersey Nook	DuncanX	134.8
The Jersey Nook	Judy-L	101.4
The Jersey Nook	Debby	100.4
MILKING SHORTHORN		
Melvin H. Nisly	Fleeta	164.3
Melvin H. Nisly	Fliver	122.7
Melvin H. Nisly	Florenc	107.7
Sasnak Farm	Honey	112.6
Sasnak Farm	Eleganc	109.4
RED AND WHITE		
John Maxwell	410	134.7
John Maxwell	436	126.3
John Maxwell	402	118.5
John Maxwell	420	102.0

35 YEARS OF SERVICE

Thirty-five years of early mornings... late nights! David Sukup (r), Manager, Kansas DHIA presents a commemorative plaque to Keith Brock, Brown-Doniphan DHIA at the Kansas DHIA Annual Meeting, March 13, Salina. From hand calculated records to EBS-More and the Bulletin Board, Keith has been an early adapter in providing quality service to producers in his area.

ANNUAL CLASS LEADER LACTATIONS (305 DAYS OR LESS)
TWO HIGH INDIVIDUALS FOR COMBINED FAT & PROTEIN IN EACH AGE GROUP
LISTED 1-93

HERD OWNER	COW NAME OR NO.	AGE	MILK		COMBINED FAT & PROTEIN
AYRSHIRE					
Alford-Bray Dairy	Blossom	1-11	15,820		1,256
Alford-Bray Dairy	Malinda	1-11	16,780		1,226
Alford-Bray Dairy	Patches	2-02	17,130		1,255
Alford-Bray Dairy	Reb	2-05	15,480		1,139
Selzer Dairy Inc.	355	2-07	16,410		1,254
Fred & Noreen Altweeg	Swe-Sue	2-07	15,740		1,176
Doug Wolf	54	3-03	22,900		1,623
Alford-Bray Dairy	Polly	3-05	17,170		1,235
Selzer Dairy Inc.	312	3-07	17,440		1,333
Fred & Noreen Altweeg	Fig	3-11	18,810		1,322
Ed D. Schmidt	Spanky	4-04	16,940		1,329
Seiwert Ayrshires	Pazazz	4-04	17,590		1,296
Alford-Bray Dairy	Bunnie	4-06	25,980		1,704
Alford-Bray Dairy	Lady	4-10	19,270		1,365
Alford-Bray Dairy	Rebal	5-02	21,810		1,497
Alford-Bray Dairy	Promis	8-00	19,250		1,487
BROWN SWISS					
Melvin H. Nisly	Tabby	1-11	18,160	3X	1,248
Campbell Farms	Gretche	1-10	12,600		954
Keith Thomas	Dafodil	2-01	15,180		1,258
Melvin H. Nisly	Nellie	2-05	16,620	3X	1,256
Melvin H. Nisly	Jangle	2-07	16,020	3X	1,343
Stuart & Rozina Base	Rose	2-10	15,540		1,221
Campbell Farms	Denise	3-04	19,090		1,454
Melvin H. Nisly	Bea	3-05	19,030	3X	1,442
Karen & Galen Bauman	1	3-11	21,020		1,814
Karen & Galen Bauman	Trudy	3-06	17,200		1,344
Nisly Inc.	Luciana	4-01	22,050		1,755
Nisly Inc.	Tulip	4-04	19,780		1,627
Melvin H. Nisly	Kathy	4-10	23,670	3X	1,821
Melvin H. Nisly	Socks	4-10	22,820	3X	1,769
Lorne Kuepfer	Pride	5-00	28,060		2,084
Melvin H. Nisly	Signet	6-03	25,100	3X	1,802
GUERNSEY					
Jim & Nancy Sack	Tiffa	1-11	13,370		1,149
Rodger Sidener	Becky	2-04	15,730		1,309

HERD OWNER	COW NAME OR NO.	AGE	MILK	COMBINED FAT & PROTEIN
GUERNSEY (cont'd)				
Nancy Hjetland	Roselin	2-05	15,130	1,290
Winn Guernsey Dairy	Cotton	2-09	14,940	1,272
Jim & Nancy Sack	Leanne	2-09	15,450	1,247
Winn Guernsey Dairy	Jackie	3-03	18,870	1,388
Rodger Sidener	Diane	3-03	16,450	1,370
Jim & Nancy Sack	Franny	3-08	15,330	1,312
Winn Guernsey Dairy	Monie	3-09	14,230	1,256
Winn Guernsey Dairy	Gem	4-05	17,240	1,386
Hefty Dairy	Liz	4-04	15,110	1,265
Kenneth King	Rita	4-10	20,830	1,498
Ivan Keim	Ve	4-07	17,320	1,252
Jim & Nancy Sack	Lydia	7-09	18,210	1,541
Jim & Nancy Sack	Allie	7-07	19,420	1,463
HOLSTEIN				
Richard Gress	Ella	1-11	24,750	1,718
Ronald J. Funk	466	1-11	26,400	1,585
Laverne Myers Dairy	746	2-03	23,090	1,816
Klassen Inc.	457	2-05	23,950	1,815
Forsberg Bros.	Monica	2-11	29,930	2,134
Marvin Steinlage	125	2-11	30,210	2,081
Rottinghaus Holstein Farm	Marg	3-03	32,510	2,307
Ronald J. Funk	432	3-01	30,650	2,260
Northglen Holsteins	Klyn261	3-11	31,580	2,173
Rottinghaus Holstein Farm	Cherry	3-11	32,490	2,164
William M. Beezley	Y-6 Dee	4-00	32,660	2,265
Meier Dairy	429	4-03	31,440	2,232
Northglen Holsteins	Tara292	4-06	35,330	2,255
Linsey Dairy	213	4-08	33,700	2,227
Northglen Holsteins	Gdna169	6-01	34,700	2,403
Meier Dairy	56	5-09	31,910	2,361
JERSEY				
The Jersey Nook	Missie	1-09	19,190	1,467
The Jersey Nook	Linda	1-10	17,930	1,439
The Jersey Nook	Cherry	2-01	16,100	1,397
Frey Jersey Farm	171	2-01	17,790	1,322
The Jersey Nook	Noble	2-09	17,000	1,636

HERD OWNER	COW NAME OR NO.	AGE	MILK		COMBINED FAT & PROTEIN
JERSEY (cont'd)					
Elwood Schmidt	Belita	4-02	18,060		1,678
The Jersey Nook	Loo	4-09	17,620		1,595
Harley S. Beachy	Marilyn	4-08	16,580	3X	1,295
The Jersey Nook	Xsister	10-03	21,360		1,757
Carl & Dawanna Nichols	314	7-09	20,940		1,755
MILKING SHORTHORN					
Melvin H. Nisly	Effie	2-05	15,300	3X	1,109
Melvin H. Nisly	Pizza	2-01	16,580	3X	1,093
Melvin H. Nisly	Frilly	2-07	19,750	3X	1,452
Melvin H. Nisly	Jasmine	2-11	17,070	3X	1,169
Melvin H. Nisly	Tiffany	3-00	17,920	3X	1,199
Melvin H. Nisly	Pizza	3-00	17,660	3X	1,119
Melvin H. Nisly	Fliver	4-11	24,690	3X	1,851
Melvin H. Nisly	Tinker	4-09	16,060	3X	1,183
Melvin H. Nisly	Fleeta	5-09	24,050	3X	1,703
Fred & Noreen Altweeg	Peaches	5-03	19,220		1,196
RED-WHITE					
John Maxwell	419	1-09	16,560		1,252
John Maxwell	413	1-10	16,220		1,160
John Maxwell	415	2-00	20,070		1,423
John Maxwell	434	2-01	20,950		1,398
John Maxwell	412	2-06	28,280		1,593
John Maxwell	409	2-08	22,040		1,570
John Maxwell	405	3-03	26,530		1,699
John Maxwell	401	3-03	24,170		1,677
John Maxwell	459	4-09	20,510		1,361
John Maxwell	410	6-06	31,650		2,232
John Maxwell	402	6-08	30,220		1,872
OTHER					
Metzger Dairy	95	1-08	15,280		1,352
Melvin Sundstroms & Sons	018-663	1-09	17,360		1,199
2K Dairy	Rachel	2-03	17,870	3X	1,289

HERD OWNER	COW NAME OR NO.	AGE	MILK		COMBINED FAT & PROTEIN
OTHER (cont'd)					
Nemaha River Dairy	416	2-00	17,680		1,288
R&R Dairy	338	2-10	19,130		1,364
Carl & Dawanna Nichols	902	2-11	18,890		1,310
Nemaha River Dairy	299	3-02	19,860		1,490
Metzger Dairy	134	3-02	19,460		1,448
Metzger Dairy	90	3-06	19,240		1,391
Carl & Dawanna Nichols	757	3-07	18,390		1,349
Green Gables Dairy	729	4-02	23,950	3X	1,613
Harry Miller	441	4-04	22,470		1,568
John Keller	157-26	4-08	18,410		1,500
Clifford & Stan Hansen	381	4-08	23,730		1,400
Melvin Sundstroms & Sons	523-251	5-11	25,430		1,637
2K Dairy	Malinda	7-10	21,890	3X	1,542
DAIRY GOAT					
Ray & Nancy Songs	Brita	0-11	2,210		175
Willard William	Maura	0-10	1,950		172
Leon & Donna Birmeier	Gaiety	1-00	2,310		234
Leon & Donna Birmeier	Charm	1-01	2,140		215
Randy & Shirley Chapman	Monarch	1-10	2,320		210
Willard William	Leigh	1-10	2,030		203
Ray & Nancy Songs	Abby	2-01	3,910		265
Wallace Lindenmuth	Moonbea	2-00	2,540		182
Randy & Shirley Chapman	Kristal	2-11	2,720		265
Randy & Shirley Chapman	Bonnie	2-11	2,940		261
Leon & Donna Birmeier	Locket	3-00	3,760		347
Leon & Donna Birmeier	Trisket	3-01	2,720		245
Ray & Nancy Songs	Feather	3-10	3,920		259
Ray & Nancy Songs	Hope	3-11	2,870		191
Leon & Donna Birmeier	Jetta	4-00	2,280		227
Judy L. Nida	Yaomi	4-00	3,220		215
Leon & Donna Birmeier	Gay	5-11	2,480		237
Salt Hawk	Krista	5-00	4,100		230

1993 - STATE D.H.I.A. BOARD MEMBERS - 1993

NAME	*ADDRESS*	*TELEPHONE*
David Alderman	2014 Osborne Terr., Ottawa, KS 66067	(913) 242-3830
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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
Jim Pauly	Box 130, Viola, KS 67149	(316) 545-7586
David Sukup	Dairy Herd Improvement Association 628 Pottawatomie, Box 3700 Manhattan, KS 66502	(913) 539-1784

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THE COVER

Sukup Honored. **David W. Sukup, Kansas DHIA Manager,** received the Martin A. Wilson Memorial Award at the National DHIA annual meeting in Reno, Nevada, March 8. The award is bestowed upon a state DHIA employee who is dedicated to the improvement of and provided leadership to, the advancement of DHIA.

Dave commenced his career in Washington-Marshall DHIA in 1973 and more than doubled the herds on test. He led the nation for several years in cows enrolled in the VIP system.

He became general manager of Kansas DHIA in 1983 and has been responsible for several innovative improvements in the production testing program. Dave first developed the electronic bulletin board to download component test to producers the same day lab results are available. He has worked tirelessly in making Kansas DHIA the Great Plains leader in cow participation and productivity.

Pictured with Dave is Ken Beswick (r), National DHIA Director, California.

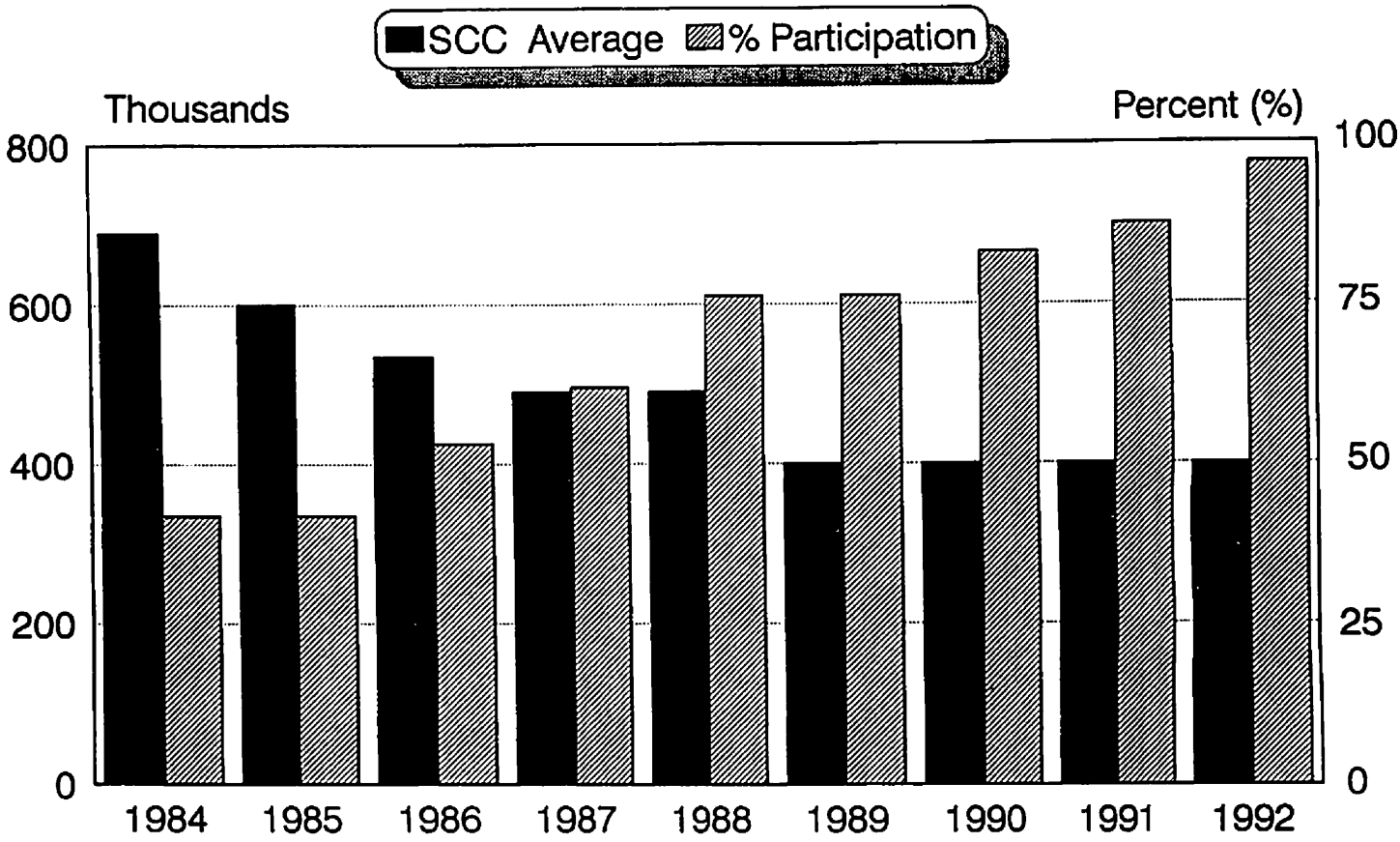


Figure 4. Progress in reducing average SCC and the increase in participation since 1984.

SCC AND MILK QUALITY - PROGRESS SLOW

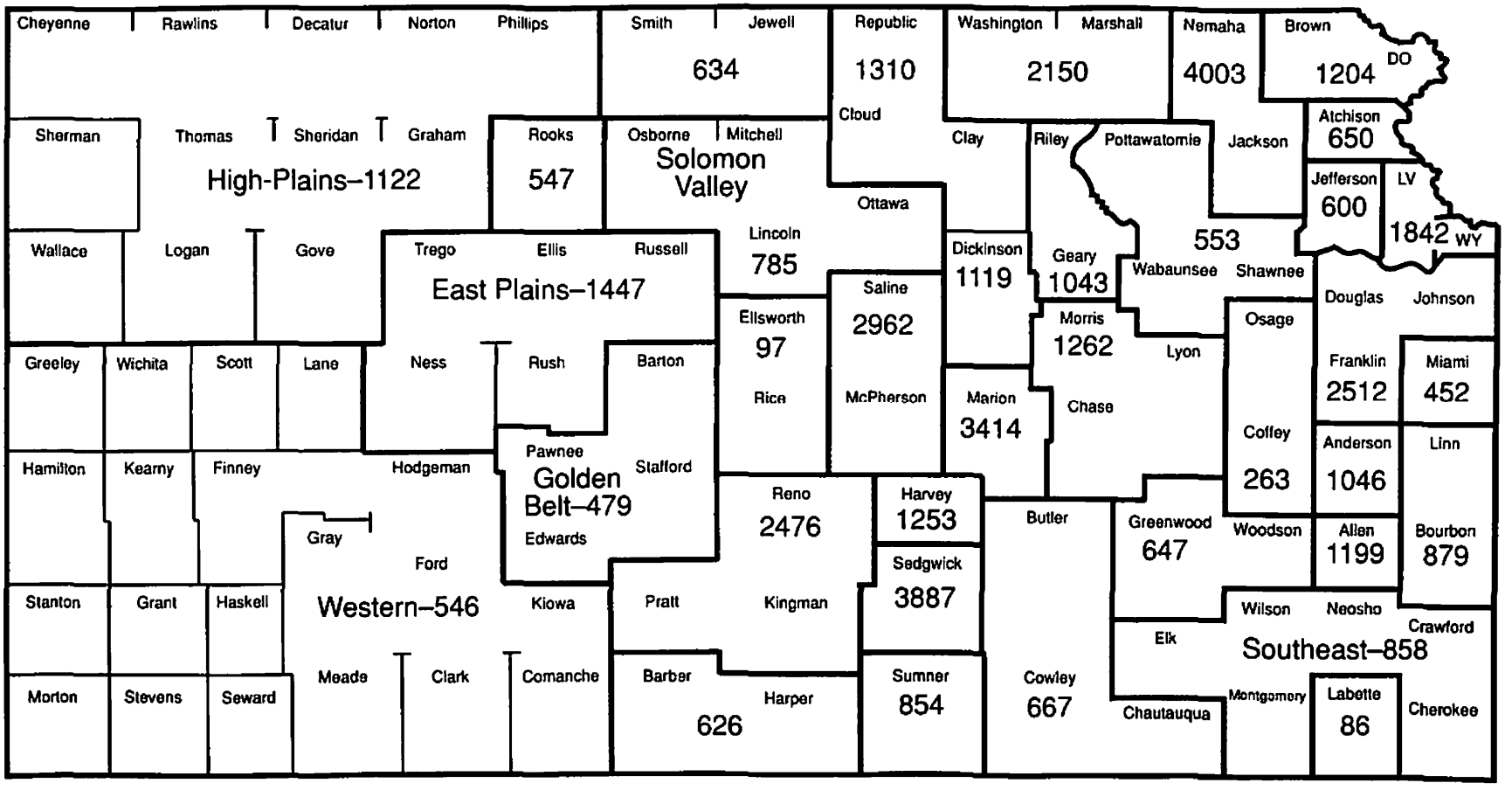
Even though average Somatic Cell Count (SCC) in Kansas DHI herds has declined from over 600,000 in 1984, the current SCC remains at 400,000. The enrollment in the SCC program is 90%, and it has been the most rapidly adopted option in the history of the DHI program.

SCC has become the standard of the industry in describing milk quality. The inverse effect of SCC on daily milk production is well established. The same relationship exists for cheese yield and shelf life of fluid milk. All milk marketed in Kansas is eligible for premium payments. Herd goal should be less than 200,000. Within the DHI program, the best 25% of the herds are consistently less than 200,000 so the goal is attainable. In problem herds, the heifers (L-1) are often the cause if they consistently average more than 100,000. Dry cow - springer lots with ponds, streams and mud holes frequently are responsible for high counts in fresh cows and heifers.

The DHIA 230, SCC Detail, provides an excellent way of evaluating the mastitis control program as well as determining the cause(s) when SCC is elevated. Monthly monitoring of high cows and withholding milk from the tank for calf feed may assure more quality premiums. Research and experience has shown that the intramammary treatment of high cows is not cost effective. Spontaneous recovery via the cow's defensive mechanism (leukocytes) is more evident in low SCC herds. The only effective treatment for high SCC cows is a dry cow treatment program based upon antibiotic sensitivity.

THE LEGAL LIMIT FOR BULK TANK MILK WILL BE LOWERED TO 750,000, JULY 1, 1993.

Dairy Cows Enrolled in Production Testing by DHI Association, 1992



Total number of dairy cows, two years and over, in Kansas: 89,000
Number of cows enrolled in production testing: 45,319
Percent of cows enrolled in production testing: 51.0%

1992 - DHIA SUPERVISORS - 1992

ASSOCIATION	*NAME*	*DATE STARTED*
Labette	Donald Richardson	November, 1986
Southeast Kansas	Anita Vail	August, 1991
Allen	Cheryl Korte	July, 1989
Bourbon	Shirley Gabbert	August, 1988
Coffey	Will Johnston	February, 1956
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	Steve Lolling	February, 1983
Harvey	Ann Kendall	November, 1979
Rice-Ellsworth	Dorothy Aistrip	May, 1987
	Ann Kendall	May, 1987
Anderson	Dena Weber	November, 1983
Golden Belt	Dorothy Aistrup	July, 1988
Western	Dorothy Aistrup	October, 1984
Reno	Kenneth Burgess	April, 1990
	Tim Tedder	March, 1988
	Virginia Bleier	January, 1984
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	Rose O'Neill	April, 1974
Kaw Valley	Vicky Hurla	October, 1978
	Kathy Teske	August, 1987
Morris	Marvin Brockelman	November, 1984
Atchison	Kelly Franklin	November, 1989
Leavenworth	Don Heim	April, 1987

25 YEARS (And Going Strong)

Lillian Zimmerman, *Nemaha-Jackson DHIA*, received a well-deserved plaque and recognition for 25 years of dedicated service to producers in the Nemaha-Jackson area. **David Sukup,** *Kansas DHIA Manager*, made the presentation at the 1993 Kansas DHIA Annual Meeting at Salina, March 13.

Lillian, along wtih husband Dale, test about 52 herds and near 4,000 cows. With a banking background, she is ideally suited to be a DHIA supervisor. Twenty-five years has seen a lot of changes from the early "IBM" reports to the EBS-MORE Program and now the Bulletin Board, or the electronic mail system. Early on, Lillian started running SCC for her members using the CMT or "paddle" test.

Congratulations and "job well done" are certainly in order for the efficient and dedicated service provided by Lillian Zimmerman.

SUPERVISORS RECOGNIZED

Shirley Gabbert (l), *Bourbon DHIA* and Connie Boggs, *Harper-Barber DHIA*, were presented commemorative watches by **David Sukup,** *Kansas DHIA Manager* at the Kansas DHIA Annual Meeting, March 13 at Salina. The recognition was for the valued service that the DHIA supervisors provide to their members. Shirley tests nine herds and 400 cows in the Bourbon-Linn area. Connie has six herds with 630 cows in the southcentral counties of Harper and Barber. Both of these dedicated supervisors were early adapters of the EBS-MORE Program that has greatly expanded the number of reports and the amount of information available on test day.

Kansas DHIA has 94% of the herds enrolled in the EBS-MORE Program which has been made possible only through the conscientious efforts of supervisors like Shirley and Connie. Congratulations to both!!

KSU
KANSAS STATE UNIVERSITY

Cooperative Extension Service

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Dear Producer:

This issue of KDEN presents the 1992 Annual Summary, Kansas Dairy Herd Improvement Program. 1992 saw a much needed 12% increase in price resulting in a 25% increase in income-over-feed cost. Feed costs have remained fairly constant over the last four years. The data presented continue to emphasize that the key to profitability is dependent mostly on yearly milk production per cow. Compared with 1991, improvement in nutrition (milk per cow) and genetics (sires' MFP$) resulted in a +16$ gain per cow in cash flow (milk price and feed cost held constant) in spite of increase in calving interval and no progress in milk quality. On January 1, 1993, 51% of the Kansas dairy cows and herds participated in one of the DHI programs.

Sincerely,

Edward P. Call
Extension Specialist
Dairy Science

James R. Dunham
Extension Specialist
Dairy Science