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Kansas State Institutional Dairy Heards 22nd Annual Report

Howard Vernon

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Kansas State Institutional Dairy Herds

Twenty-Second Annual Report

For the Year July 1, 1940 to June 30, 1941

Howard Vernon

KANSAS STATE INSTITUTIONAL

DAIRY HERDS

TWENTY-SECOND

ANNUAL REPORT

For the Year

July 1, 1940 to June 30, 1941

By

Howard Vernon

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Cow Years

Cow years is determined by adding the total months each cow in each herd is on test (dry or milking) and this total divided by 12.

Kansas State Institutional Dairy Herds

Feeding

Twenty-Second Annual Report

For the Year July 1, 1940 to June 30, 1941

By

Howard Vernon

The following pages contain the report of the Kansas State institutional dairy herds for the fiscal year 1940-41. This report is concerned with the 17 herds which have been under the direct charge of the Board of Social Welfare, the Board of Regents, the State Board of Administration, the Board of Managers, and the superintendents of the several institutions, with the advisory cooperation of the Department of Dairy Husbandry, Kansas State College.

On February 1, 1917, the Kansas State Legislature passed an act, "authorizing the placing of the dairy herds of all the state institutions of the state of Kansas under the supervision of the professor of dairy husbandry of the State Agricultural College of Manhattan, Kansas--the department of dairying--shall inspect the dairy herds of all the state institutions--for the purpose of advising with and assisting the several superintendents in the building up and maintaining the dairy herds of these institutions to a high standard."

Cow Years

Cow years is determined by adding the total months each cow in each herd is on test (dry or milking) and this total divided by 12.

Feeding

As a whole most of the institutions are feeding satisfactory grain rations. A few, however, are feeding unbalanced rations as shown in Table II. The roughage feed has been of very good quality in all institutions except one.

Provisions are made for a silage crop, such as Atlas sorgo or Sumac cane, in all institutions except two, and silage is now being fed in all institutions except Mother Bickerdyke Home and they have no silo.

We must never lose sight of the fact that milk cannot be produced economically from poor quality feeds, and the best results can only be obtained from good roughages and balanced grain rations fed according to production.

Importance of Good Herdsmen

One of the major problems facing the state institutions relative to the efficient management of the dairy herds is the turn-over in herdsmen. No sound breeding and management program can be set up and executed in as short a space of time. Table XVI reveals the fact that practically 85 percent of them are comparatively new at their job. Being a good herdsman takes a life time of study, practice, and planning in order that a herd can be kept on an efficient basis.

Bovine Tuberculosis

To most Kansas dairymen the disease, Tuberculosis, in cattle is
Disease

Tuberculosis

Only one tuberculosis reactor was found in this year's testing program, which, indeed, is creditable. Continual testing for this disease and the following of a very rigid program accounts for this small number.

Bang's Disease

With the exception of an occasional reactor, Bang's disease is well under control in all of the institutional herds, except Hutchinson, and they are getting things under control enough so that by November 1, 1941, they hope to be rid of all reactors now on hand. This final step on their part will virtually clean up all of the larger problems with this disease, so that attention can be directed toward having all institutional herds free of Bang's disease and perhaps accredited in the next year or two.

Registration

Both Beloit and Parsons made another step of progress this year in that they both now have an all registered herd. This is an achievement that all of the institutions are working toward, and the final award is not only an economical high producing herd but a herd that shows progress in breed improvement.

Bovine Trichomoniasis

To most Kansas dairymen the disease, Trichomoniasis, in cattle is new. However, since there is some of this disease in Kansas dairy cattle, and since it has been found in some of the state institutional herds, we are making this notation in this year's report.

In order that each institution be properly protected from "buying" this disease with any newly purchased bull from outside sources (other than from institutional herds now clean), it should be stipulated in the contract that the bull being purchased, not only be free of Bang's and tuberculosis, but also free from Trichomoniasis.

One apparent characteristic of this disease is noticed in cows thought to be pregnant, coming in estrum again from 60 to 90 days, or even a longer period of time. This condition could be mistaken for sterility and perhaps a good producing cow condemned for such.

Authorities on Trichomoniasis feel that there is no effective cure for the male at the present time. However, they do feel the disease can be controlled by slaughtering infected bulls, and giving the females a rest.

Females bred to known infected bulls should be given a rest of three normal estrous cycles, which should give her time to eliminate the disease from her body and leaves little danger of her spreading it to a clean bull. However, no infected female should be bred until she is definitely known to be clean.

The disease may come into the herd by the purchase of an infected bull or an infected female.

Because of the nature of this disease and the present suggested plan of control, it seems inadvisable for a herdsman to practice the promiscuous interchange of bulls in breeding, that is, a bull should be confined to the breeding of a certain group of cows and the practice of using another bull on this particular group should be avoided. If such a practice is followed and any major breeding problems occur, it can be easily traced and its probability of being scattered through the major portion of the herd can quite often be warded off.

Handling of Bulls

It has been stated that we have yet a lot to learn concerning the care and management of bulls. This is becoming more true as we use more and more the proven bull. Not only is it necessary for the herdsman to make sure the females of his herd are in good breeding condition, but that the breeding bull is also at his best.

Usually the reason for a cow milking too short a time or too long, as the case may be, is due to, first, some lack in breeding management, and, second, to an inefficient breeder, either the male or the female.

Keeping the following in mind is always good management:

1. See that the bulls not only have the proper kind and amount of feed, but that they have the proper amount of exercise.
2. Breed no female until you are sure she is in normal breeding condition. Don't waste your bull - he is too valuable.
3. Avoid breeding back too soon after calving.

Table I does not concern enough bulls to justify any conclusions, but it does indicate that we should be on the watch for improvement. Certainly the large number of services per conception indicates that a closer study of our breeding problems would be warranted.

Results

While the seasons listed in Table II may not be the seasons being

Table I.

The Result of Services of 24 Bulls in Six Institutional Herds During 1940-41.

Month	No. of Services	No. of Conceptions	Percent of Conceptions	No. of Services per conception	Ave. No. of services per bull
July	54	15	27	3.6	2.2
August	85	28	33	3.0	3.6
Sept.	84	36	43	2.3	3.5
Oct.	70	26	37	2.7	3.0
Nov.	72	35	48	2.1	3.0
Dec.	78	27	34	2.9	3.2
Jan.	98	43	44	2.2	4.1
Feb.	104	34	33	3.1	4.3
March	95	37	39	2.5	3.9
April	85	24	28	3.5	3.5

of any needed feed as they have storage space for, at a time when those respective feeds have reached a low for the year. This not only is economy, but is good business as well, and certainly is a more sound program than buying a small supply at a time. Milk production cannot be maintained with plenty of feed this week and some substitute or temporary feed the next.

Table II is made out for Holsteins with an average weight of 1600 pounds, giving 3.6 percent milk, and for Jerseys weighing 1200 pounds, giving 4 percent milk.

Rations

While the rations listed in Table II may not be the rations being used by the respective institutions now, they are the ones that were being used in December, 1940. The rations that are out of balance as shown by their composition may not be due to any one given thing. Some institutions are constantly short on feed or enough feed for the herdsman to balance his ration properly. The quality of feed used or purchased has a very decided bearing on the balance of the ration.

Some herds are being fed a very limited amount of alfalfa, for which there is no excuse. Alfalfa is not only plentiful in Kansas, but is the cheapest source of protein that we feed dairy cattle. Any institution not furnishing alfalfa in sufficient quantities for economical milk production certainly does not have the best interests of the dairy herd, or the institution at heart.

Large quantities of cheap grain does not mean that a balanced ration can be obtained for the dairy herd, and an unbalanced grain ration definitely means higher production costs.

All institutions should plan to purchase as near a year's supply of any needed feed as they have storage space for, at a time when those respective feeds have reached a low for the year. This not only is economy, but is good business as well, and certainly is a more sound program than buying a small supply at a time. Milk production cannot be maintained with plenty of feed this week and some substitute or temporary feed the next.

Table II is made out for Holsteins with an average weight of 1400 pounds, giving 3.5 percent milk, and for Ayrshires weighing 1200 pounds, giving 4 percent milk.

The value of whole milk is based on the basis of butterfat value and is determined on the first of each month by taking the price of 93 score butter on the Chicago market and adding 20 cents to this price.

This gives each cow credit for the milk she produced on a whole milk basis, yet makes it possible to figure her net income product in terms of butterfat.

Feed prices are set up each month on basis of Kansas City carload lots. Thus the value of product produced, and the value of feed consumed is figured each month, on an equal basis and makes each herd comparable to the other herds.

Commencing September 1, 1940, it was decided by the Dairy Husbandry Department and the respective boards to adopt the practice of testing the herds every other month in order that the supervisor might have more time in which to keep reports up to date, and give more time to other problems in feeding management rather than spend all the time in routine testing.

Table II. Rations Being Fed by the Respective State Institutions as of December 1, 1940

	Norton	Hays	Larned	Ft. Dodge	Ellsworth	Hutchinson	Winfield	Parsons	Osawatomie	Olathe	Atchison	Boys Inis	Lansing	Topeka	Kan. Voc. Sch.	Beloit	Wom. Ind. Farm
Roughage being fed :	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
# Hay :	19	17	20	15	30	10	20	22	18	25	15	25	20 ²	25	15	20	29
# Silage :	20	60	33	20	1	40	25	25	50	35	40	30	40	30	45	40	30
Grain Mix :	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
# Corn & cob meal :	:	:	:	:	:	:	:	400	1200	:	:	:	:	:	:	:	:
# Corn :	200	:	100	:	200	1000	:	:	:	200	400	1000	1500	2400	400 ³	200	100
# Barley :	200	1800	300	300	:	:	1200	100	:	:	:	:	:	:	:	200	:
# Oats :	:	:	200	300	200	1500	1200	300	640	200	:	500	500	600	:	:	200
# Bran :	200	700	200	100	200	1500	1200	100	400	200	200	600	800	600	200	200	:
# Cottonseed meal :	100	300	150	:	100	800	200	75	200	100	:	:	200	300	:	100	20
# Linseed meal :	:	:	:	:	:	800	250	75	100	:	:	:	150	:	:	:	:
# Soybean meal :	:	300	:	100	:	:	50	:	:	:	100	100	:	:	100	:	:
Method of feeding grain ¹ :	1-3 ¹ / ₂	1-4	1-4	1-3	1-4	1-3	1-3	1-4	1-3	12#	1-3 ¹ / ₂	12 ¹ / ₂ #	ad lib	1-3 ¹ / ₂	1-5	1-3 ¹ / ₂	15#
Composition of silage :	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Dig. crude protein :	0.720	0.480	0.264	0.720	:	0.320	0.200	0.200	0.400	0.280	0.440	0.240	0.320	0.240	0.360	1.440	0.240
Total dig. nutrient :	2.720	8.160	4.488	2.720	:	5.440	3.400	3.400	6.800	4.760	5.440	4.080	5.440	4.080	6.120	5.440	4.080
Compos. of alf. hay :	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Dig. crude protein :	1.824	1.649	1.920	1.440	2.880	0.096	1.920	2.112	1.736	2.400	1.440	2.400	1.640	2.400	1.440	1.920	2.784
Total dig. nutrient :	7.562	6.766	7.960	5.970	11.980	3.980	7.960	8.756	7.363	9.950	5.970	9.950	7.120	9.950	5.970	7.960	11.542
Compos. of grain :	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Dig. crude protein :	13.38	13.00	14.64	13.22	13.50	15.20	12.66	10.99	14.13	12.84	12.77	11.50	8.96	10.20	13.17	13.38	9.190
Total dig. nutrient :	75.31	76.00	70.69	75.16	70.88	60.95	68.95	55.00	94.92	81.32	77.60	73.21	58.55	75.36	80.24	74.45	67.65
Roughage fed will support No. of lbs. milk :	None	14#	6#	None	None	None	21#	5#	11#	12#	None	10#	None	None	13#	13#	None
Analysis of grain mix :	Bal.	Bal.	Bal.	Bal.	Bal.	Unbal.	Bal.	Bal.	Unbal.	Unbal.	Bal.	Unbal.	Unbal.	Unbal.	Bal.	Bal.	Unbal.
Suggestions :	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

¹ 1 lb. grain to each 3-4 lbs. of milk produced per day.

² Very stemmy

³ Hominy feed

*Feed same number of pounds of grain per day as cow produces number of pounds of butterfat per week and add 1% of equal parts of salt and steamed bone meal to grain ration.

Table III.

Summary of Total Cattle in State
 Institutional Herds with Total Milk Production
 and Feed Costs from July 1, 1917 to June 30, 1941

Fiscal year ending	Number of cattle			Milk pounds	Feed costs dollars
	Pb.	Gr.	Total*		
June 30, 1918	67	630	697	Not available	Not available
June 30, 1919	109	695	804	2,120,438	Not available
June 30, 1920	131	764	895	2,546,807	36,734
June 30, 1921	166	897	1,063	2,975,059	33,631
June 30, 1922	186	896	1,082	3,459,539	25,179
June 30, 1923	252	844	1,096	4,052,297	30,622
June 30, 1924	330	884	1,116	4,153,862	37,486
June 30, 1925	342	811	1,153	5,027,937	46,765
June 30, 1926	384	855	1,239	5,818,109	55,125
June 30, 1927	497	858	1,355	6,365,792	54,896
June 30, 1928	509	752	1,261	5,811,602	57,916
June 30, 1929	589	733	1,322	6,101,891	64,345
June 30, 1930	671	807	1,478	6,927,299	77,745
June 30, 1931	673	775	1,446	7,456,175	74,339
June 30, 1932	710	735	1,445	8,016,325	55,371
June 30, 1933	805	670	1,491	8,109,829	43,472
June 30, 1934	768	704	1,472	9,209,767	57,577
June 30, 1935	1,013	794	1,807	9,436,951	78,701
June 30, 1936	1,089	821	1,910	9,076,519	83,400
June 30, 1937	1,139	964	2,103	10,110,161	134,295
June 30, 1938	1,078	954	2,032	9,194,861	102,843
June 30, 1939	1,356	660	2,016	10,167,401	91,072
June 30, 1940	1,384	562	1,946	9,795,820	89,678
June 30, 1941	879	619	1,498	9,153,386	96,809

*Total cattle include all cattle in herds.

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*Total cattle include all cattle in herds.

Table IV.

Total Production

Institution	: Cow years*	: Total milk	: Total fat	: Value of product	: Total feed cost	: Ret. above cost of feed
Beloit	: 26.8	: 333987	: 11721.4	: \$ 5,949.75	: \$ 2695.52	: \$ 3254.23
Norton	: 60.3	: 580628	: 20675.2	: 10,442.03	: 5947.28	: 4494.75
Ellsworth	: 5.7	: 59378	: 1796.2	: 970.79	: 660.62	: 334.88
Hays	: 35.7	: 339323	: 11771.3	: 6,040.83	: 3807.31	: 4367.41
Ft. Dodge	: 17.6	: 165803	: 5711.3	: 2,907.42	: 1758.19	: 1149.20
Larned	: 76.3	: 895220	: 29884.0	: 15,131.39	: 8442.53	: 6588.86
Winfield	: 82.4	: 1018857	: 35560.1	: 16,982.52	: 9612.92	: 7469.53
B.I.S.	: 34.8	: 311202	: 10233.4	: 5,170.63	: 3244.62	: 1916.02
Kans. Voc.S.	: 13.1	: 129958	: 4229.3	: 2,173.99	: 1149.49	: 1012.50
Osawatomie	: 105.4	: 975498	: 32738.5	: 17,288.99	: 11367.57	: 5921.54
Olathe	: 24.9	: 270014	: 9275.2	: 4,769.18	: 2632.10	: 2127.08
Lansing	: 127.4	: 1312284	: 46193.4	: 23,262.28	: 16000.90	: 7259.77
Wom. Ind. F.	: 14.2	: 108354	: 3668.8	: 1,799.18	: 1444.96	: 335.22
Atchison	: 25.3	: 216793	: 7245.4	: 3,809.35	: 2350.87	: 1569.49
Total	: 649.9	: 6699299	: 230703.5	: 116,698.33	: 71114.88	: 47800.48

Herds Milked 3 Times a Day

Hutchinson	: 80.7	: 746019	: 27604.1	: 14,127.10	: 7610.53	: 6536.57
Topeka	: 83.3	: 879273	: 29218.9	: 14,824.31	: 9528.16	: 5295.65
Parsons	: 71.0	: 805795	: 27608.1	: 14,243.57	: 8556.47	: 5687.10
Total	: 235.0	: 2431087	: 84431.1	: 43,194.98	: 25695.16	: 17519.32
Grand Total	: 884.9	: 9130386	: 315134.6	: 159,893.31	: 96810.04	: 65319.80

*Cow years explained on page 2.

Table V.

Average Production per Cow

Institution	: Cow years*	: Ave. pounds of milk	: Ave. pounds of B.F.	: Value of product	: Feed cost	: Ret. above cost of feed
Beloit	: 26.8:	13,422	: 448	: \$ 220.00	: \$ 100.58	: 121.42
Norton	: 60.3:	10,665	: 368	: 173.16	: 98.62	: 74.54
Ellsworth	: 5.7:	10,558	: 357	: 170.31	: 115.98	: 54.42
Hays	: 35.7:	10,350	: 362	: 169.20	: 106.64	: 62.56
Ft. Dodge	: 17.6:	9,221	: 317	: 165.19	: 99.89	: 65.30
Larned	: 76.3:	10,969	: 365	: 198.18	: 110.64	: 87.54
Winfield	: 82.4:	12,814	: 423	: 206.10	: 116.66	: 89.44
B. I. S.	: 34.8:	8,733	: 293	: 148.58	: 93.23	: 55.35
Kans. Voc. S.	: 13.1:	10,054	: 333	: 165.95	: 87.74	: 78.21
Osawatomie	: 105.4:	9,579	: 328	: 164.03	: 107.83	: 56.20
Olathe	: 24.9:	10,827	: 365	: 191.53	: 105.59	: 85.94
Lansing	: 127.4:	10,305	: 357	: 182.59	: 125.55	: 57.04
Wom. Ind. F.	: 14.2:	7,816	: 260	: 124.58	: 101.72	: 23.86
Atchison	: 25.3:	9,064	: 303	: 150.56	: 92.91	: 57.65
Ave. prod	: 46.4:	10,311	: 348	: 173.71	: 104.54	: 69.24

Herds Milked 3 Times a Day

Hutchinson	: 80.7:	8,681	: 356	: 175.03	: 94.30	: 80.73
Topeka	: 83.3:	10,792	: 365	: 177.96	: 114.38	: 63.58
Parsons	: 71.0:	11,767	: 402	: 200.61	: 120.51	: 80.10
Ave. prod.	: 78.3:	10,410	: 374	: 184.53	: 109.73	: 74.80
Grand Ave.	: 62.3:	10,361	: 361	: 179.12	: 107.13	: 72.02

*Cow years explained on page 2.

Table VI.
Summary of Average Milk Production of Herds of the Various
Institutions During the 12 Year Period from 1929 to 1941

Institution	1929-30	1930-31	1931-32	1932-33	1933-34	1934-35	1935-36	1936-37	1937-38	1938-39	1939-40	1940-41
Atchison	10,106	8,719	8,137	8,646	9,241	10,293	9,606	9,685	7,998	11,445	9,700	9,064
Beloit	9,437	9,998	10,023	10,089	10,929	12,029	10,681	9,866	9,320	11,567	11,701	13,422
Kan. Voc. Sch.	7,196	9,163	8,376	8,490	9,538	11,167	10,951	11,128	12,192	8,599	9,146	10,054
Larned	7,813	8,565	8,223	8,585	9,985	11,550	10,944	10,828	9,218	10,570	10,795	10,969
Norton	9,234	10,040	10,487	11,760	12,872	12,488	11,631	9,975	10,460	10,615	11,034	10,665
Wom. Ind. Farm		7,448	10,381	8,080	9,816	11,491	7,829	8,310	9,742	9,072	9,138	7,816
Ford Dodge					9,833	10,818	10,316	11,004	9,113	9,696	9,775	9,221
Olathe						7,077	6,855	8,933	9,639	10,109	11,325	10,827
Ellsworth								10,193	9,328	11,452	9,069	10,558
Hays								8,837	10,900	10,018	10,455	10,350
Boys Ind. Sch.	8,934	8,628	9,520	11,096	13,068	14,520	13,953	13,014	11,043	10,510	9,994	8,733
Hutchinson	7,883	8,794	10,266	10,152	9,164	9,264	7,798	8,511	7,391	7,245	8,318	8,681
Lansing	10,446	10,590	11,866	10,552	11,989	10,233	9,327	11,024	9,259	10,868	10,734	10,305
Osawatomie	10,051	10,551	10,085	10,833	11,113	10,765	9,398	10,168	9,468	10,344	10,209	9,579
Parsons	11,132	10,623	10,990	10,889	11,801	12,258	9,766	11,021	9,915	10,835	11,021	11,767
Top. St. Hosp.	9,845	10,102	11,599	10,001	11,167	9,238	9,411	10,392	10,547	11,970	12,109	10,792
Winfield	9,822	12,593	11,799	11,508	13,210	12,314	11,297	10,151	11,915	14,874	14,079	12,814
Average	9,325	9,678	10,135	10,059	10,980	11,038	9,845	10,188	9,688	10,692	10,729	10,330

Table VII.
Summary of Average Butterfat Production of Herds of the Various
Institutions During the 12 Year Period from 1929 to 1941

Institution	1929-30	1930-31	1931-32	1932-33	1933-34	1934-35	1935-36	1936-37	1937-38	1938-39	1939-40	1940-41
Atchison	347	299	278	294	333	363	351	341	301	402	349	303
Beloit	330	354	356	349	376	418	374	339	325	420	428	448
Kan. Voc. Sch.	260	334	302	298	341	423	381	405	448	302	335	333
Larned	272	301	296	297	347	386	367	374	320	391	393	365
Norton	395	367	383	424	470	466	428	369	370	366	406	368
Wom. Ind. Farm		276	386	317	338	402	333	295	321	315	302	260
Ford Dodge					369	386	363	370	301	345	344	317
Olathe						241	274	316	348	401	418	365
Ellsworth								387	357	425	339	357
Hays								345	409	364	389	362
Boys Ind. Sch.	296	293	329	378	456	516	472	462	381	372	340	293
Hutchinson	300	333	397	390	358	361	301	346	279	280	312	356
Lansing	358	369	410	355	397	346	311	377	320	398	388	357
Osawatomie	338	360	349	372	361	348	310	345	320	341	346	328
Parsons	298	366	377	367	408	424	332	370	345	372	379	402
Top. St. Hosp.	362	382	429	379	380	372	310	348	352	418	419	365
Winfield	341	431	414	395	441	405	375	337	413	525	501	423
Average	331	354	372	367	386	383	341	360	338	378	383	353

Table VIII.

Number of Animals Removed from the Milking Herds During the Year and
the Cause of Their Removal

	Ave. age disposed of	Mas- titis	Sterile	Old age	Died (Foreign body)	Died (Poison)	Died (Unknown)	Low production	Bang's reactor	Injured udder	Crippled	Tuber- culosis	Dairy purposes	Infection	Total
Norton	5.5	29	0	0	1	3	1	4	0	0	0	1	0	0	39
Beloit	5.6	1	0	0	1	0	0	5	0	0	0	0	1	0	8
Hays	6.6	0	14	0	0	0	0	2	0	0	0	0	0	0	16
Ellsworth	6.0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
Ft. Dodge	6.2	3	2	1	0	0	0	1	0	0	0	0	0	0	7
Larned	5.8	11	2	1	0	0	1	17	1	1	0	0	0	0	34
Hutchinson	5.6	2	4	0	0	3	0	2	12	0	0	0	0	0	23
Winfield	7.0	1	5	4	1	1	0	4	0	2	2	0	0	0	20
Parsons	6.3	3	4	1	1	0	2	5	1	1	0	0	11	0	29
Osawatomie	4.8	16	0	1	1	2	2	9	0	0	2	0	0	0	33
Olathe	5.1	0	1	0	0	0	2	4	9	1	0	0	0	0	17
Lansing	6.3	2	6	3	0	2	3	13	1	1	1	0	0	0	32
Wom. Ind. Farm	5.6	1	1	0	0	0	0	0	0	0	0	0	0	0	2
Atchison	5.1	4	0	0	0	0	2	3	0	0	1	0	0	0	10
E. I. S.	5.9	2	2	0	2	0	0	1	0	1	1	0	0	2	11
Topeka	6.0	0	4	0	1	1	1	3	12	0	1	0	0	1	24
Kans. Voc Sch.	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4

Table IX.

Sires in Service 1940-1941

Name of sire	Age	No. of daughters in herd:				Bull	Total	Remarks
		Milking	Bred	Open	Heifer			
	age	year-	year-	calves		calves		
		lings	lings					
<u>SCHOOL FOR THE DEAF</u>								
Faynepietetje Pride							Sold on	
Pride #722381	2-3-35	1	0	10	3	14	market, shy	
							breeder	
Springbrook Butter-							Leased from	
boy	'36	0	0	0	0	0	H.C. Mayer for	
							6 mo.	
<u>KANSAS VOCATIONAL SCHOOL</u>								
B.I.S. Admiration							Leased from	
Tietje		0	5	0	9	14	B.I.S.	
B.I.S. Springbrook							Leased from	
Tietje 701854	8-12-34	0	0	0	0	0	B.I.S. 60 days	
<u>STATE TRAINING SCHOOL</u>								
Carnation Foremost		25	0	0	0	25	3	
Triune Segis Pontiac								
Piebe 644248	11-19-30	18	3	2	2	25	2	
Mount Riga Grand-								
master		0	1	0	0	1	15	
K.S.I.S. Triune								
Idol		0	0	0	0	0	0	
<u>PARSONS STATE HOSPITAL</u>								
Parsons King Neeman								
Pearl Ormsby 699914	12-13-33	16	2	0	2	20	3	
Mount Riga Piebe								
Inka DeKol 701248	9-28-34	2	2	4	5	13	6	
Parsons Lockhard								
Charley 728544	9-29-35	5	2	0	1	8	0	
Parsons Pietertje								
Payne Pontiac								
699916	12-9-38	0	0	5	10	15	8	
Carnation Advocate								
756184	1-17-38	0	0	0	11	11	19	
<u>MOTHER BICKERDYKE HOME</u>								
K.S.I.S. Triune								
Dandy		0	2	1	3	6	5	

Table IX. (Cont'd.)

Name of sire	Age	Milking	Bred	Open	Heifer	Calves	Bull	Total	Remarks
		year-	year-	year-	year-	year-	year-	year-	
		lings	lings	lings	lings	lings	lings	lings	
<u>KANSAS STATE INDUSTRIAL REFORMATORY</u>									
Sycamore Peter 59107	5-21-38	0	0	12	2	14	2		
K.S.I.R. Prince									
Mendarin 61383	4-26-39	0	0	0	1	1	0		
K.S.I.R. Prince's									
Torredor 61382	4-6-39	0	0	0	0	0	0		
K.S.I.R. Lassies									
Jim 65329	2-6-39	0	0	0	2	2	1		
Boy of Kanjwan 52014	3-27-35	1	0	0	14	14	10		
<u>TOPEKA STATE HOSPITAL</u>									
Mount Riga Master-piece 666188	9-4-32	15	13	0	11	39	19		
Topeka Sir Famco									
Aristocrat Walker 682392	1-21-33	16	3	1	6	26	8		
Topeka Sir Quantico									
Oscar 759979	3-14-37	6	11	5	5	27	3		
T.S.H. Sir Ormsby									
Thad 788933	1-18-39	0	0	0	6	6	5		
B.I.S. Springbrook Tietje 701854	8-12-34	0	0	0	3	3	3		Leased from B.I.S.
King Ormsby Colantha									Purchased 1-22-41
Truth 2d 809045	7-5-40	0	0	0	0	0	0		from Emil Menold, Sabetha, Kansas
<u>FORT HAYS KANSAS STATE COLLEGE</u>									
N. P. Clothilde									Leased from
Topsy Triune 666017		15	4	7	7	33	21		Larned
Larned Hengerveld									
Prince 722619		0	0	0	3	3	2		
<u>KANSAS SOLDIERS HOME</u>									
S.T.S. Joe Boron		0	0	8	11	19	8		
St. Joseph Major Ormsby		2	7	4	0	13	3		Sold on market. Sterile.

Table IX. (Cont'd.)

Name of sire	Age	Milking lings	Bred lings	Open lings	Heifer lings	Bull calves	Total calves	Remarks
<u>LARNED STATE HOSPITAL</u>								
Ormsby Dean Segis 643553	5	16	1	0	22	2		
Stratton Sir Burke 659508	0	0	7	23	38	17		
Sir Carlotta Hays Hengesveld 6th 663053	8	0	0	2	10	6		
K.S.I.S. Triune Hero 788101	0	0	0	3	3	8		
<u>OSAWATOMIE STATE HOSPITAL</u>								
Mount Riga Pietertje Johanna	30	6	1	3	40	3		
Osawatomie Cloud Burton	4	4	5	12	25	9		
Carnation Ormsby Matador Walker	0	5	14	34	53	38		
Osawatomie Fayne Aotor	0	0	0	1	1	2		
<u>NORTON STATE HOSPITAL</u>								
Parsons King DeKol	4	0	0	0	0	0		
Korndyke Carnation Walker 709252	18	0	0	0	0	0		
<u>STATE ORPHANS HOME</u>								
T.S.H. Sir Master- piece 766445	0	9	8	19	36	13		
<u>KANSAS STATE PRISON</u>								
Sir Skylark Just Right 707086	0	0	1	13	14	13		
Sir Butter Boy Fobes 781199	0	0	1	13	14	14		
Lansing Korndyke 737240	6	0	6	12	24	22		

Table X.
Sires Leased Between Institutions

Owner	Name and number of sires	Date of birth	Lessee	Date of lease	Termination of lease	Formal agreement
Kansas Soldiers Home	S.T.S. Joe Boron	6-14-37	Bickerdyke Home	5-31-41	5-31-43	Yes
Bickerdyke home	K.S.I.S. Triune Dandy	9-18-38	Kansas Soldiers Home	5-31-41	5-31-43	Yes
Larned St. Hosp.	Larned Hengerveld Prince	4-3-35	Ft. Hays State College	11-23-40	11-23-41	Yes
Larned St. Hosp.	Stratton Sir Burke 659508	3-16-32	Osawatomie State Hospital	4-1-40	4-1-42	Yes
Osawatomie St. H.	Carnation Ormsby Matador Walker 651572	4-15-32	Larned St. Hosp.	4-1-40	4-1-42	Yes
Kans. St. College	Waldale Matador Ormsby	4-29-32	St. Training School	10-1-40	10-1-41	Yes
State Training Sch.	Carnation Foremost	3-1-30	Kans. St. College	10-1-40	10-1-41	Yes
G. C. Meyer Basehor, Kansas	Springrock Butterboy		State School for the Deaf	12-1-40	4-1-41	No
Boys Ind. School	B. I. S. Springrock Tietje	8-12-34	Kans. Voc. School	2-13-41	4-28-41	Yes
Boys Ind. School	B. I. S. Springrock Tietje	8-12-34	Topeka Hospital	7-9-40	10-25-40	Yes
Boys Ind. School	B. I. S. Piebe Admiration	7-2-35	Kans. Voc. School	2-25-37	12-12-40	Yes

The following bulls were purchased during this fiscal year.

Table XI.

Summary of Bang's Disease Tests in Institutional Herds During 1940-41

Institution	Date tested	No. tested	Reactors	Suspects	Remarks
Atchison	6-14-41	43	0	0	Accredited
Beloit	5-26-41	38	0	1	
Kan. Voc. Sch.	2-21-41	16	3	2	
Norton	2-13-41	64	0	0	Accredited
	10-1-40	158	1	0	
Larned	6-23-41	154	0	0	
Wom. Ind. Farm	5-26-41	18	0	0	
Fort Dodge	8-23-41	23	0	0	
	2-8-41	37	1	0	
Olathe	5-28-41	33	6	1	
	10-4-40	11	0	0	
Ellsworth	5-22-41	13	0	0	Two clean tests
Hays	6-27-41	61	0	0	Acc'd. Cert. #103
Boys Ind. Sch.	4-30-41	56	0	0	Acc'd. Cert. #110
	7-17-40	120	10	1	
Hutchinson	2-7-41	108	2	2	
Lansing	1-20-41	171	0	0	Acc'd.
	1-27-41	167	0	0	
Osawatomie	6-26-41	195	0	2	
	9-27-40	162	0	0	
Parsons	2-20-41	156	0	0	Acc'd. Cert. #108
	1-14-41	140	9	0	
Top. St. Hosp.	4-26-41	149	1	0	
Winfield	3-29-41	160	0	0	Acc'd.

The following bulls were purchased during this fiscal year.

Sir Fobes Monte #808371

Holstein, purchased by Kansas Soldiers Home, Fort Dodge, and Nick Heitschmidt, Natoma, Kansas.

Mt. Joseph Prince DeKol #771412

Holstein, purchased by State Training School, Winfield, from Garden City Agricultural Experiment Station, Garden City, Kansas.

Parsons Lockhart Charley #72855

Holstein, purchased by Osawatomie State Hospital, Osawatomie, from the Parsons State Hospital, Parsons, Kansas.

King Ormsby Colantha Truth 2nd #809045

Holstein, purchased by Topeka State Hospital, Topeka, from Emil Menold, Sabetha, Kansas

Regier Tritomia Lad #740303

Holstein, purchased by Topeka State Hospital, Topeka, from E. B. Regier, Coldwater, Kansas.

5 daughters	5 records	12207 lbs. milk	5.5% fat	479 lbs. fat
5 dams	10 "	12142 "	5.7% "	419 "
Difference		+665	-.2%	+60

4. Aggie Fontina DeKol Henry #80202

5 daughters	45 records	5172 lbs. milk	5.3% fat	300 lbs. fat
5 dams	50 records	5574 "	5.3% "	314 "
Difference		-402	0	-14

STATE TRAINING SCHOOL

5. Topeka Sir F. A. Ormsby #80255

5 daughters	5 records	9672 lbs. milk	5.0% fat	354 lbs. fat
5 dams	25 "	10832 "	5.4% "	371 "
Difference		-960	+.4	-17

KANSAS OFFENSE BUREAU

6. Walker Verona #80280

5 daughters	10 records	10542 lbs. milk	5.7% fat	307 lbs. fat
5 dams	20 "	10442 "	5.5% "	287 "
Difference		+100	+.2	+20

Table XII

Sires Proved in State Institutional Dairy Herds According
to U.S.D.A. Bureau of Dairy Industry Method for
Year 1940 - 1941

NORTON STATE SANATORIUM

1. K.S.A.C. Vale Imperial 46407

23 daughters	53 records	12678 lbs. milk	3.4% fat	438 lbs. fat
21 dams	110 "	12895 " "	3.3% "	432 " "

Difference - -217 \nearrow 0.1 \nearrow 6

2. Topeka Sir F. A. Ormsby Tritomia 669239

19 daughters	28 records	13146 lbs. milk	3.5% fat	462 lbs. fat
19 dams	113 "	12151 " "	3.5% "	428 " "

Difference \nearrow 995 0.0% \nearrow 34

3. Korndyke Carnation Walker 709252

5 daughters	5 records	12367 lbs. milk	3.9% fat	479 lbs. fat
5 dams	16 "	11149 " "	3.7% "	413 " "

Difference \nearrow 1218 \nearrow 0.2% \nearrow 66 " "

4. Aaggle Pontiac DeKol Henry 290303

8 daughters	45 records	9172 lbs. milk	3.3% fat	300 fat
8 dams	50 records	9532 " "	3.3% "	314 " "

Difference -360 0 -14

STATE TRAINING SCHOOL

5. Topeka Sir F. A. Ormsby 663055

6 daughters	8 records	9872 lbs. milk	3.6% fat	354 lbs. fat
6 dams	26 "	10852 " "	3.4% "	371 " "

Difference -980 \nearrow .2 -17

KANSAS ORPHANS HOME

6. Walker Veeman 666080

9 daughters	10 records	10542 lbs. milk	3.7% fat	387 lbs. fat
9 dams	26 "	10448 " "	3.5% "	367 " "

Difference \nearrow 94 \nearrow .2 \nearrow 20

OSAWATOMIE STATE HOSPITAL

7. Mount Riga Pietertje Johanna 666184						
	27 daughters	42 records	8392	lbs. milk	3.3% fat	281 lbs. fat
	27 dams	111 "	8682	" "	3.3% "	283 " "
	Difference		-290		0	-2 " "
8. Osawatomie Fayne Pietertje 440040						
	24 daughters	35 records	9698	lbs. milk	3.4% fat	350 lbs. fat
	24 dams	114 "	9067	" "	3.4% fat	312 " "
	Difference		✓631		0	✓ 18
9. Osawatomie Pietertje Pontiac 601767						
	21 daughters	53 records	9462	lbs. milk	3.4% fat	317 lbs. fat
	21 dams	91 "	9995	" "	3.3 "	333 " "
	Difference		-533		✓.1 "	-16
10. K. S. A. C. Sir Korndyke Henry 392883						
	18 daughters	66 records	8262	lbs. milk	3.4% fat	285 lbs. fat
	18 dams	110 "	8733	" "	3.3 "	285 " "
	Difference		-471		✓.1	0
11. Dean Veemon Homestead Ormsby 605471						
	49 daughters	111 records	8267	lbs. milk	3.4% fat	283 lbs. fat
	49 dams	248 "	9260	" "	3.3 "	308 " "
	Difference		-993		✓.1	-25
12. Dean Johanna Pontiac Ormsby 605470						
	34 daughters	90 records	9424	lbs. milk	3.4% fat	317 lbs. fat
	34 dams	198 "	9413	" "	3.3% "	314 " "
	Difference		✓ 11		✓.1	✓ 3
13. North Star Paul Champion 310425						
	27 daughters	135 records	9621	lbs. milk	3.4% fat	329 lbs. fat
	27 dams	145 "	8863	" "	3.2% "	286 " "
	Difference		✓758		✓ 2	✓ 43

KANSAS SOLDIERS HOME

14. Duke Johanna Pontiac Pieterstje 698709

5 daughters	5 records	11200 lbs. milk	3.7%	420 lbs. fat
5 dams	18 "	11656 " "	3.4	400 " "

Difference --456 / .3 / 20

BOYS INDUSTRIAL SCHOOL

15. Korndyke Veeman Pontiac Star 435807

21 daughters	48 records	11824 lbs. milk	3.4% fat	408 lbs. fat
21 dams	78 "	11008 " "	3.5% "	384 " "

Difference / 816 -.1 / 24

Abilene	5-27-40	1	0	Ass'd. Cert. #15847
Beloit				Ass'd. Cert. #78113
Chan. Vtd. Sch.				
Lawson	8-30-40	147	1	Ass'd. Cert. #17881
Barton	1-1-41	117	1	
Chan. Ind. Park	3-18-41	18	0	
Fort Dodge	4-17-41	35	0	2nd class best
Dieth	5-24-41	40	0	Ass'd. Cert. #17812
Kilworth	5-10-41	12	0	
Wayn	5-8-41	58	0	Ass'd. Cert. #17888
Chan. Vtd. Sch.	4-10-41	47	0	Ass'd. Cert.
Hutchinson	3-18-41	173	0	Ass'd. Cert. #17883
Lawson	4-7-41	177	0	Ass'd. Cert. #17877
Crawtonia	3-17-41	200	0	2nd class best
Parsons	3-17-41	148	0	Ass'd. Cert. #17874
Exp. Ho. Hosp.	3-14-41	133	0	Ass'd. Cert. #41087
Winfield	11-4-40	146	0	Ass'd. Cert. #36873

Table XIII

Summary of Tuberculin Tests in Institutional Herds During 1940-41

Institution	Date tested	Number tested	Reactors	Remarks
Atochison	9-27-40	58	0	Acc'd. Cert. #133497
Beloit	6-1-40	51	0	Acc'd. Cert. #78113
Kan. Voc. Sch.	4-1-41	23	0	
Larned	9-30-40	147	0	Acc'd. Cert. #47061
Norton	1-1-41	117	1	
Wom. Ind. Farm	3-15-41	19	0	
Fort Dodge	4-17-41	35	0	2nd clean test
Olathe	5-24-41	40	0	Acc'd. Cert. #173912
Ellsworth	6-10-41	12	0	
Hays	6-8-41	56	0	Acc'd. Cert. #173980
Boys Ind. Sch.	4-10-41	47	0	Acc'd. Cert.
Hutchinson	2-16-41	172	0	Acc'd. Cert. #173951
Lansing	4-7-41	177	0	Acc'd. Cert. #174077
Osawatomie	3-17-41	200	0	2nd clean test
Parsons	6-17-41	148	0	Acc'd. Cert. #117074
Top. St. Hosp.	3-14-41	133	0	Acc'd. Cert. #41067
Winfield	11-4-40	146	0	Acc'd. Cert. #248733

Table XIV

Summary of Tuberculin Tests in State Institutional Herds with Total Number of Cattle Tested; Number of Reactors and Percent of Reactors from July 1, 1918, to June 30, 1941.

Fiscal year ending	No. of tests	Total No. tested	No. reactors	Percent of reactors
6-30-19	12	479	59	12.1
6-30-20	7	162	9	5.4
6-30-21	16	741	20	2.7
6-30-22	22	1214	29	2.3
6-30-23	15	1197	14	1.2
6-30-24	15	1133	1	0.1
6-30-25		1163	17	1.4
6-30-26		1239	11	0.9
6-30-27		1355	3	0.2
6-30-28		1264	13	1.0
6-30-29	16	1322	3	0.2
6-30-30		1390	1	0.1
6-30-31		1502	15	1.1
6-30-32		1450	5	0.3
6-30-33		1493	2	0.1
6-30-34	14	1461	3	0.2
6-30-35		Information not available		
6-30-36	11	1119	11	1.0
6-30-37	20	2746	8	0.3
6-30-38	17	1878	2	0.1
6-30-39	14	1677	9	0.5
6-30-40	17	2276	19	0.8
6-30-41	17	1583	1	0.06

Table XV

Summary of Institutions at Close of Fiscal Year in: Identification of Animals by Ear Tags; Condition of Herd Records, and Condition of Purebred Animals Eligible to Registry

Institution	Ear tag	Herd records	Purebred animals registered	Herd prefix for registration
Atchison	All tagged	Up to date	Up to date	K O H
Beloit	All tagged	Up to date	Up to date	K G I S
Kan. Voc Sch.	All tagged	Up to date	Up to date	K V S
Larned	All tagged	Up to date	Up to date	L S H
Norton	All tagged	Up to date	Up to date	K S S
Wom. Ind. Farm	Not tagged	Incomplete	No purebred females	W I F
Fort Dodge	All tagged	Up to date	Up to date	K S H
Olathe	All tagged	Up to date	Up to date	K S D
Ellsworth	All tagged	Up to date	No purebred females	M B
Hays College	All tagged	Up to date	Up to date	F H K S C
Boys Ind. Sch.	All tagged	Up to date	Up to date	B I S
Hutchinson	All tattooed and tagged	Incomplete working	Up to date	K S I R
Lansing	All tagged	Up to date	Up to date	Kanstapen
Osawatomie	All tagged	Up to date	Up to date	O S H
Parsons	All tagged	Incomplete working	Up to date	P S H
Top. St. Hosp.	All tagged	Up to date	Up to date	T S H
Winfield	All tagged	Up to date	Up to date	S T S

Table XVI.

Dairy Experience Data of Present Herdsman

Institution	Present Herdsman	Date employed	Years in service in present position	Previous institutional dairy work	Previous dairy experience
Winfield	R. E. Doty	7/ 1/39:	2 years	10 years	None
Hays	Marion Pearce	8/ 1/40:	1 year	None	None
Hutchinson	E. E. Germain	12/ 1/39:	1 $\frac{1}{2}$ years	None	20 yrs. farm dairy
	Bruce Detter, Asst.	2/ 1/40:	1 year	3 years	15 yrs. " "
Atchison	Roy Beam	5/15/41:	3 months	1 yr., 9 mo.	20 yrs. " "
Larned	Guy Fulcher	8/28/29:	13 years	None	Meyer Dairy Farm
Parsons	W.C. Baumgartner	12/25/20:	20 years	None	None
Osawatomie	Carl Anderson	9/1 /40:	1 year	4 years	Asst. Dairyman, 1925-29
Olathe	John Jamison	2/15/36:	5 years	None	8 yrs. fam dairy
Beloit	Sam Depoy	6/ 1/39:	2 years	None	None
Norton	Joe McKee	7/ 1/39:	2 years	15 years	None
Ellsworth	E. W. Richards	7/ 1/39:	2 years	None	None
Ft. Dodge	Leo Nuifer	5/15/41:	3 months	None	None
State Pen.	B. D. Mills	7/ 1/39:	2 years	None	20 yrs. with govt.
Wom. Ind. Fams	Herman Lindell	7/ 1/39:	2 years	None	None
Boys I. S.	Louis Brand	7/ 1/39:	2 years	None	None
Kans. V.S.	E. G. Dawson	10/23/40:	9 months	5 years	6 yrs. Okla. and Ark. State College

March 22 and April 1, 1921

State Herdsmen's Short Course

The time of year for holding the short course was changed from spring to fall. The attendance was very good, most of the institutions being represented by one or more men. Considerable time and effort are spent by the staff of the Department of Dairy Husbandry in presenting facts pertaining to the more pertinent phases of the dairy industry. Most of the herdsmen derive considerable benefit from attendance.

In addition to the herdsmen which are listed in the preceding Table, the following superintendents and herdsmen from the respective institutions attended the Herdsmen's Short Course:

H. M. Quigley, Superintendent, School for the Deaf, Olathe
 J. T. Naramore, Superintendent, Parsons State Hospital, Parsons
 Ralph L. Burt, Commandant, Kansas Soldiers Home, Fort Dodge
 Judge Grace A. Miles, Superintendent, Girls' Industrial School, Beloit
 George L. Lizer, Farm Superintendent, Kansas Soldiers Home, Fort Dodge
 A. K. Oliver, Farmer, Topeka State Hospital, Topeka
 Tom Ludwig, Farm Supervisor, Osawatomie State Hospital, Osawatomie
 Lee Gardner, Farmer, State Training School, Winfield
 Esther Gansel, Dairy Supervisor, Girls Industrial School, Beloit
 A. R. Allmon, Herdsman, Garden City Agr. Expt. Sta., Garden City

Artificial Insemination of Dairy Cows - Prof. G. H. Beck, Dept. of Dairy Husbandry, K.S.C.

Requirements for Clean Milk Production - Prof. W. J. Caulfield, Dept. of Dairy Husbandry, K.S.C.

Bacterial Control Programs - Prof. V. D. Felts, Dept. of Bacteriology, K.S.C.

Tuesday, 1:30 P.M.

Calf Feeding Practices - Professor Beck

Herd Size Management - Professor Johnson

Grass Silage - Its Value and Place in Kansas - Dr. H. E. Reckel, Dept. of Dairy Husbandry, K.S.C.

Questions and Answers - Mr. Verman

Visit to K.S.C. Dairy Herd and Herd

STATE INSTITUTIONAL DAIRY CONFERENCE

March 31 and April 1, 1941

Department of Dairy Husbandry
West Wing, Waters Hall
Kansas State College

Monday, March 31, 9:00 A.M.

Facing The Facts - A Progress Report - Mr. Howard Vernon, Dept. of Dairy Husb., K.S.C.

Breeding Efficiency - How To Analyze It - Prof. F. W. Atkeson, Head, Dept. of Dairy Husb., K.S.C.

Disease Control In The Dairy Herd - Dr. S. J. Roberts, Veterinary Division, K.S.C.

Monday, 1:30 P.M.

Feeding The Dairy Herd - Dr. A. O. Shaw, Dept. of Dairy Husb., K.S.C.

Herd Analysis In Developing Breeding Programs - Prof. J. W. Linn, Extension Dairyman, K.S.C.

Breeding Better Dairy Cattle - Dr. L. O. Gilmore, Extension Dairyman, K.S.C.

Questions and Answers - Mr. Vernon

Judging Dairy Cattle - Doctor Shaw and Mr. Vernon

Tuesday, April 1, 9:00 A.M.

Artificial Insemination Of Dairy Cows - Prof. G. H. Beck, Dept. of Dairy Husb., K.S.C.

Requirements For Clean Milk Production - Prof. W. J. Caulfield, Dept. of Dairy Husb., K.S.C.

Mastitis Control Programs - Prof. V. D. Foltz, Dept. of Bacteriology, K.S.C.

Tuesday, 1:30 P.M.

Calf Feeding Practices - Professor Beck

Herd Sire Management - Professor Atkeson

Grass Silage - Its Value And Place In Kansas - Dr. H. E. Bechtel, Dept. of Dairy Husb., K.S.C.

Questions and Answers - Mr. Vernon

Visit to K.S.C. Dairy Barns and Herd

RECORD OF AGREEMENT

AGREEMENT between _____
hereinafter called the party of the first part, and _____
_____, hereinafter called the party of the
second part.

The party of the first part agrees to furnish the following
_____ bull,

Name _____

Born _____

Sire _____

Dam _____

to party of the second part for a period of _____ from
the date of agreement.

This AGREEMENT shall be valid provided that the above mentioned
bull is a breeder, free from tuberculosis and Bang's disease, and in
good physical condition on the above date.

The party of the first part will furnish a custodian's cer-
tificate issued by _____
to the party of the second part in order that purebred animals may be
registered without transferring ownership title of the bull to the
party of the second part.

The party of the second part agrees to care for the above
bull under a system of good dairy practice and to furnish veterinary
services when needed. The party of the second part agrees to pay the
party of the first part _____ in the event of the bull's
death during the period of this agreement.

The party of the second part shall handle the transportation
on the bull from _____ to
_____ after which
transportation costs shall be paid by the receiver of the bull.

The party of the first part does not assume any liability
for persons or property that might be damaged by the bull while in
transit or at the home of the party of the second part.

By _____
Party of the First Part

By _____
Party of the Second Part

Date _____

JULY 1927

ACKNOWLEDGEMENT OF POSSESSION AND AUTHORIZATION OF SIGNATURE

This is to certify that _____ (Lessee)

of _____ (Address) had and retained in his

possession from _____ (Month, day and year) to _____ (Month, day and year)

my purebred _____ (Breed) bull, _____

_____ # _____ (Name) (Number)

Certificates of service of this bull during this period may be signed by _____ (Lessee)

for me in the following manner, viz.:

_____ Owner of the bull

By _____ Lessee

Witness my signature this _____ day of _____,

19____.

_____ Owner's signature

_____ Address

*Dittoed in whole milk was valued at 17¢ per lb. in July, 1927. ... will be figured at 17¢ per lb. Whole milk is valued at \$1.75 per cwt. ... feed prices for the month of August will be figured per ton as follows: corn, \$22; barley, \$24; oatmeal, \$14; alfalfa hay, \$12; clover hay, \$12; timothy hay, \$12; straw, \$2.

KANSAS STATE INSTITUTIONAL DAIRY HERD REPORT

July 1940

INSTITUTION:	Cows	in	Total	Milk	Fat	Total	Feed	Cost	Cost	Value	*Rot.	pr.cow
:	dry:	milk:	milk	per	per	feed	cost	per lb.:	per:	product:	above	
:	lbs.	lbs.	lbs.	cow	cow	cost	per cow:	b'fat	gal.:	per cow:	feed	cost
:						\$	\$	¢	¢	\$	\$	
Atchison	10:	16:	14721:	566:	19.5:	201:	7.72:	39.5:	11.7:	9.36	:	1.64
Beloit	3:	24:	29678:	1099:	38.9:	236:	8.73:	22.4:	6.8:	18.67	:	9.94
Kan. V. S.	0:	13:	12273:	944:	33.6:	89:	6.94:	20.2:	6.3:	16.13	:	9.19
Larned	13:	70:	74959:	903:	32.2:	667:	8.03:	24.9:	7.6:	15.46	:	7.43
Norton	12:	57:	63599:	922:	33.8:	526:	7.62:	22.5:	7.1:	16.22	:	8.60
Wom. Ind. F.	5:	9:	7934:	567:	18.6:	95:	6.78:	36.5:	10.3:	8.93	:	2.15
Fort Dodge	2:	15:	16376:	963:	32.5:	142:	8.34:	25.7:	7.5:	15.60	:	7.26
Olathe	11:	14:	11699:	468:	16.6:	191:	7.63:	46.0:	14.8:	7.97	:	0.34
Ellsworth	:	:	:	:	:	:	:	:	:	:	:	:
Hays	18:	21:	25155:	645:	23.0:	331:	8.48:	36.8:	11.3:	11.04	:	2.56
Boys I. S.	0:	36:	29981:	832:	26.9:	294:	8.17:	30.3:	8.4:	12.91	:	4.74
SUMMARY	74:	275:	286375:	821:	28.9:	2772:	7.94:	27.4:	8.3:	13.87	:	5.93
:	:	:	:	:	:	:	:	:	:	:	:	:
Hutchinson	2:	73:	69587:	927:	32.1:	554:	7.48:	22.9:	6.8:	15.40	:	7.92
Lansing	21:	105:	116325:	923:	32.9:	1042:	8.27:	25.1:	7.7:	15.79	:	7.52
Osawatomie	16:	84:	69099:	691:	22.3:	797:	7.97:	35.7:	9.9:	10.70	:	2.73
Parsons	13:	60:	63403:	879:	28.2:	591:	8.10:	28.7:	8.0:	13.53	:	5.43
Top. S. H.	10:	73:	73803:	889:	28.9:	653:	7.87:	27.2:	7.6:	13.87	:	6.00
Winfield	14:	61:	91625:	1222:	40.5:	648:	8.64:	21.3:	6.1:	19.44	:	10.80
SUMMARY	76:	456:	483842:	910:	30.4:	4285:	8.05:	26.2:	7.6:	14.59	:	6.54
:	:	:	:	:	:	:	:	:	:	:	:	:
TOTAL	150:	731:	770217:	874:	29.9:	7057:	8.01:	26.7:	7.9:	14.35	:	6.34

*Butterfat in whole milk was valued at 48¢ per lb. in July. Butterfat for August will be figured at 47¢ per lb. Whole milk is valued at \$1.65 per cwt. for August. Feed prices for the month of August will be figured per ton as follows: corn, \$26; oats, \$22; barley, \$24; bran, \$18; cottonseed meal, \$36; oil meal, \$30; alfalfa hay # 2, \$11; prairie hay, \$9; silage, \$3.

KANSAS STATE INSTITUTIONAL DAIRY HERD REPORT

August, 1940

Institution:	Cows : in :	Milk : Total :	Fat : per : cow :	Feed : cost : per : cow :	Cost : per : cwt. :	Cost : per : lb. :	Returns per \$1 expended for feed
Atchison	: 6 : 18 :	17088:	657 : 22.1:	7.52 :	.95 :	33 :	1.63
Beloit	: 2 : 25 :	30344:	1145 : 37.6:	8.01 :	.71 :	21 :	1.82
Kans. V.S.	: 1 : 12 :	10779:	829 : 29.0:	6.81 :	.82 :	23 :	2.02
Larned	: 13: 72 :	71814:	851 : 28.9:	8.07 :	.93 :	27 :	1.72
Norton	: 8: 57 :	58813:	911 : 31.5:	8.04 :	.81 :	25 :	1.74
Fort Dodge	: 2 : 15 :	13910:	858 : 29.0:	8.21 :	.93 :	27 :	1.71
Olathe	: 7 : 17 :	15869:	601 : 22.5:	5.62 :	.99 :	29 :	2.47
Ellsworth	: : :	:	: : :	:	:	:	:
Wom. I. F.	: : :	:	: : :	:	:	:	:
Hays	: 9 : 31 :	22724:	575 : 19.0:	5.93 :	.81 :	.28 :	1.77
Boys I. S.	: 3 : 33 :	24255:	672 : 21.8:	6.92 :	1.02 :	.31 :	1.52
Summary	: 51:311 :	265566:	788 : 26.8:	7.23 :	.88 :	.27 :	1.82
Herds Milked three times a day							
Hutchinson	: 3 : 74 :	64963:	840 : 21.2:	7.44 :	.87 :	.24 :	1.87
Lansing	:23 :116 :	106574:	809 : 30.4:	6.91 :	.82 :	.24 :	1.91
Osawatomie	:20 :102 :	64534:	633 : 20.9:	7.80 :	1.20 :	.36 :	1.28
Parsons	:15 : 58 :	63408:	871 : 28.0:	8.57 :	.82 :	.30 :	1.56
Topeka	:10 : 63 :	70344:	857 : 27.9:	8.18 :	.80 :	.29 :	1.39
Winfield	:12 : 64 :	90180:	1202 : 38.3:	9.48 :	.87 :	.26 :	1.96
Summary	: 83: 477:	460003:	868 : 27.7:	8.06 :	.89 :	.28 :	1.66
Total	:134: 788:	725569:	828 : 27.2:	7.64 :	.88 :	.27 :	1.74

Balance of herds estimated on regular cow testing association basis. Butterfat for August was figured at 47¢ per lb.

Feed prices were figured as follows: corn \$26.00; oats \$22.00; barley \$24.00; bran \$18.00; cottonseedmeal \$36.00; linseedmeal \$30.00; alfalfa \$11.00; silage \$3.00.

KANSAS STATE INSTITUTIONAL DAIRY HERD REPORT

September, 1940

Institution:	Cows : : in : : dry:	Total milk : milk :	Milk : per : cow :	Fat : per : cow :	Feed : cost : per cow:	Cost : per cwt. : milk :	Cost : per lb. : fat :	Returns per \$1 expended for feed
		lbs.	lbs.	lbs.	\$	\$	¢	\$
*Atchison	: 3:	23: 19455:	748:	24.8:	7.32 :	0.97 :	0.28 :	1.62
*Beloit	: 2:	24: 31011:	1192:	36.4:	7.30 :	0.66 :	0.20 :	1.33
Kan. V. S.	: 2:	11: 9285:	714:	25.4:	6.68 :	0.93 :	0.26 :	1.83
*Larned	: 14:	72: 68680:	799:	25.7:	8.11 :	1.01 :	0.31 :	1.52
*Norton	: 4:	58: 54027:	900:	29.3:	8.47 :	0.93 :	0.28 :	1.47
*Wom. Ind. F.	: 2:	13: 13250:	883:	30.5:	5.35 :	0.60 :	0.17 :	2.56
Fort Dodge	: 2:	16: 11454:	754:	26.3:	8.08 :	1.03 :	0.30 :	1.56
Olathe	: 4:	20: 20039:	835:	29.2:	3.61 :	0.43 :	0.12 :	3.90
Ellsworth	: 2:	7: 5790:	827:	25.1:	7.58 :	0.89 :	0.28 :	1.71
*Hays	: 9:	31: 20270:	506:	15.6:	3.38 :	0.66 :	0.21 :	2.21
*Boys Ind. S.	: 5:	31: 18469:	513:	16.8:	5.67 :	1.10 :	0.33 :	1.50

Herds milked three times a day

Hutchinson	: 5:	75: 60340:	754:	26.3:	7.41 :	0.98 :	0.26 :	1.70
Lansing	: 26:	113: 96824:	696:	22.9:	5.56 :	0.79 :	0.24 :	1.96
*Osawatomie	: 28:	76: 59969:	576:	19.6:	7.64 :	1.32 :	0.38 :	1.23
Parsons	: 17:	56: 63048:	863:	27.9:	9.04 :	1.04 :	0.32 :	1.49
Top. St. Hosp.	: 11:	71: 66896:	825:	26.9:	8.49 :	1.02 :	0.31 :	1.52
*Winfield	: 10:	67: 91002:	1183:	36.1:	10.32 :	0.87 :	0.27 :	1.72

*Tested this month. The remainder of the herds estimated on regular cow testing association basis.

Butterfat in whole milk was valued at 48¢ per lb. in September.

Butterfat for October will figured at 49¢ per lb.

Feed prices for the month of September was figured per ton as follows:

corn \$26; oats \$22.50; barley \$22.50; bran \$16.00; cottonseed meal \$32.00; linseed oil meal \$28.30; soybean meal \$25.00; alfalfa hay #2 \$10.00; silage \$4.00; for October the same as September except, corn \$24.50; oats \$23.50; barley \$23.50; bran \$17.00; cottonseed meal \$28.30; soybean meal \$28.00; hominy feed \$23.00.

KANSAS STATE INSTITUTIONAL DAIRY HERD REPORT

November, 1940

Institution:	Cows in dry:	milk milk:	Total milk:	Milk per cow:	Fat per cow:	Feed cost per cow:	Cost per cwt. milk:	Cost per lb. fat:	Returns per \$1 expended for feed
		lbs.	lbs.	lbs.	lbs.	\$	\$	\$	\$
*Atchison	: 8:	17:	14407:	576 :	15.1:	8.87 :	1.54 :	0.42 :	1.07
*Beloit	: 6:	22:	23229:	826 :	27.2:	9.55 :	1.14 :	0.36 :	1.39
Kan. V. S.	: 3:	10:	10257:	789 :	25.9:	8.13 :	1.03 :	0.31 :	1.59
*Larned	: 15:	59:	68990:	932 :	30.8:	8.84 :	0.94 :	0.28 :	1.75
*Norton	: 9:	66:	63330:	844 :	30.5:	7.73 :	0.91 :	0.25 :	1.98
*Wom. I. F.	: 4:	11:	10305:	690 :	23.4:	9.31 :	1.34 :	0.39 :	1.26
Fort Dodge	: 2:	14:	12450:	803 :	28.8:	9.34 :	1.20 :	0.32 :	1.54
Olathe	: 6:	18:	20190:	841 :	26.6:	11.29 :	1.34 :	0.42 :	1.18
Ellsworth	: :	:	:	:	:	:	:	:	:
*Hays	: 6:	36:	38474:	916 :	31.1:	11.84 :	1.29 :	0.38 :	1.40
*Boys I. S.	: 6:	30:	16817:	467 :	18.2:	10.40 :	2.22 :	0.56 :	0.87
Lansing	: 30:	106:	100571:	750 :	24.4:	11.65 :	1.57 :	0.45 :	1.03
*Winfield	: 12:	66:	68403:	876 :	31.2:	10.04 :	1.14 :	0.32 :	1.55
Summary	:107:	455:	447423:	796 :	26.1:	9.74 :	1.30 :	0.37 :	1.39
Herds milked three times a day									
Hutchinson	: 12:	67:	48392:	612 :	24.0:	8.58 :	1.25 :	0.31 :	1.56
*Osawatomie	: 18:	93:	95049:	856 :	30.4:	8.65 :	1.01 :	0.28 :	1.73
Parsons	: 11:	60:	65611:	918 :	32.0:	9.41 :	1.02 :	0.29 :	1.70
Top. S. H.	: 13:	67:	67989:	849 :	26.4:	10.50 :	1.23 :	0.39 :	1.28
Summary	: 54:	287:	277041:	812 :	28.2:	9.28 :	1.15 :	0.32 :	1.57
Total	:161:	742:	724464:	804 :	27.1:	9.51 :	1.22 :	0.34 :	1.48

*Tested in November. Balance of herds estimated on regular cow testing association basis. Butterfat for November was figured at 50¢ per lb.

Feed prices were figured as follows: silage \$4.00; alfalfa \$12.00; bran 19.50; corn \$23.50; oats \$24.00; barley \$23.50; linseed oil meal \$30.80; cottonseed meal \$32.80; soybean meal \$29.00; hominy \$22.50.

KANSAS STATE INSTITUTIONAL DAIRY HERD REPORT

December, 1940

Institution:	Cows in:	Total milk:	Milk per cow:	Fat per cow:	Feed cost per cow:	Cost per cwt. milk:	Cost per lb. fat:	Returns per \$1 expended for feed:
	dry:	milk:	lbs.	lbs.	\$	\$	¢	\$
Norbon	9:	62: 54374:	689 :	24.3:	8.52 :	1.11 :	31 :	1.74
Hays	0:	35: 36643:	1046 :	37.2:	11.85 :	1.13 :	31 :	1.72
Larned	12:	66: 63260:	811 :	25.9:	7.90 :	0.97 :	30 :	1.82
*Ft. Dodge	1:	14: 12789:	852 :	31.1:	8.78 :	1.03 :	28 :	1.95
*Ellsworth	0:	5: 4947:	994 :	32.3:	15.76 :	1.58 :	48 :	1.12
Winfield	11:	68: 78446:	993 :	32.8:	10.86 :	1.09 :	33 :	1.66
*Olathe	4:	22: 24384:	938 :	32.7:	12.73 :	1.35 :	39 :	1.04
Atchison	8:	17: 14988:	599 :	19.8:	7.20 :	1.82 :	54 :	1.51
Boys I. S.	13:	22: 17403:	500 :	18.5:	11.04 :	2.22 :	59 :	0.92
*Lansing	20:	112: 113842:	862 :	33.1:	11.90 :	1.38 :	38 :	1.48
Kan. V. S.	2:	11: 9601:	730 :	24.6:	9.00 :	1.21 :	36 :	1.51
Beloit	3:	26: 29914:	1069 :	35.2:	10.83 :	0.94 :	28 :	1.93
Summary	7:	39: 460591:	847 :	28.9:	10.53 :	1.32 :	38 :	1.53
Herds milked three times a day								
*Hutchinson	11:	73: 59999:	714 :	29.6:	8.25 :	1.16 :	29 :	1.97
*Parsons	13:	54: 68952:	1029 :	35.0:	12.45 :	1.20 :	35 :	1.58
Osawatomie	21:	93: 97888:	858 :	29.4:	9.60 :	1.11 :	32 :	1.69
*Top. S. H.	13:	72: 72034:	847 :	29.8:	10.30 :	1.21 :	34 :	1.30
Summary	14:	73: 298873:	862 :	30.9:	10.15 :	1.17 :	32 :	1.63
Total	141:	752: 759464:	854 :	29.9:	10.34 :	1.24 :	35 :	1.58

*Tested in December. Balance of herds calculated on regular cow testing association basis. Butterfat for December was figured at 55% per lb.

Feed prices were figured as follows: bran \$20.25; corn \$24.50; barley \$25.00; oats \$27.50; linseed meal \$33.80; cottonseed meal \$34.80; soybean meal \$32.00; hominy \$24.50.

KANSAS STATE INSTITUTIONAL DAIRY HERD REPORT

January, 1941

Institution:	Cows : : in :	Milk : : Total :	Fat : : per : : cow :	Feed : : per : : cow :	Cost : : per : : cow :	Cost : : per : : cwt. :	Cost : : per : : lb. :	Returns per : \$1 expended : for feed
	dry:	milk:	lbs.	lbs.	lbs.	\$	\$	\$
*Norton	: 7:	53: 41602:	693:	25.2:	9.25 :	1.25 :	23 :	1.56
*Hays	: 3:	33: 31198:	871:	31.7:	11.66 :	1.34 :	36 :	1.45
*Larned	: 3:	72: 81820:	1091:	36.6:	10.01 :	0.85 :	25 :	2.04
Ft. Dodge	: 1:	15: 12108:	756:	26.8:	9.24 :	1.22 :	34 :	1.54
*Wom. Ind. F.	: 2:	12: 10043:	717:	24.6:	14.01 :	1.95 :	56 :	0.93
*Winfield	: 7:	70: 85932:	1103:	37.6:	12.86 :	1.15 :	34 :	1.54
Olathe	: 2:	21: 25985:	1129:	39.0:	11.11 :	0.98 :	28 :	1.86
*Atchison	: 0:	22: 21139:	960:	32.3:	9.07 :	0.94 :	28 :	1.89
*Boys I. S.	: 6:	30: 24035:	616:	25.1:	10.34 :	1.35 :	43 :	1.21
Lansing	: 15:	120: 114254:	874:	29.9:	12.37 :	1.44 :	41 :	1.29
*Kan. V. S.	: 1:	12: 10872:	836:	27.6:	6.73 :	1.00 :	28 :	1.90
*Beloit	: 4:	25: 25953:	860:	33.0:	11.30 :	1.08 :	29 :	1.79
*Osawatomie	: 17:	103: 101002:	841:	29.4:	9.00 :	1.05 :	30 :	1.69
Summary	: 5:	45: 45071:	872:	30.6:	10.51 :	1.20 :	33 :	1.60
Herds milked three times a day								
Hutchinson	: 12:	76: 65134:	740:	30.1:	8.60 :	1.16 :	28 :	1.85
Parsons	: 12:	57: 69294:	1004:	34.4:	12.18 :	1.21 :	35 :	1.50
Top. S. H.	: 11:	77: 75165:	967:	28.6:	9.06 :	1.06 :	31 :	1.54
Summary	: 13:	70: 69333:	905:	31.0:	9.94 :	1.11 :	31 :	1.65
Total	: 103:	798: 865318:	887:	30.8:	10.22 :	1.15 :	32 :	1.61

*Tested in January. Balance of herds calculated on regular cow testing association basis. Butterfat for January was figured at 49¢ per lb.

Feed prices were figured as follows: bran \$19.60; corn \$23.00; oats \$27.00; barley \$23.50; linseed meal \$32.30; cottonseed meal \$35.50; soybean meal \$29; hominy \$22.65; silage \$4.00; alfalfa \$13.00.

KANSAS STATE INSTITUTIONAL DAIRY HERD REPORT

February, 1941

Institution:	Cows in	Dry:milk:	Total:milk:	Milk: per cow:	Fat: per cow:	Feed: per cow:	Cost: per milk:	Cost: per fat:	Returns per \$1 expended for feed
		lbs.	lbs.	lbs.	lbs.	\$	\$	\$	\$
Norton	8	46	38068	705	25.2	7.67	1.08	0.30	1.61
Beloit	4	24	22948	819	30.0	9.76	1.19	0.32	1.58
*Ellsworth	1	4	3359	671	22.2	10.96	1.50	0.41	1.17
Hays	3	30	24856	753	26.6	8.43	1.12	0.31	1.53
Larned	7	64	65589	923	31.1	8.43	0.91	0.27	1.89
*Ft. Dodge	2	15	10970	643	23.1	7.85	1.21	0.33	1.45
Winfield	7	74	83410	1029	34.6	11.72	1.13	0.33	1.44
Osawatomie	10	102	87306	779	26.7	11.02	1.41	0.41	1.26
*Olathe	0	23	26240	1140	41.0	11.10	0.97	0.27	1.81
*Lansing	17	109	104405	830	28.1	12.63	1.52	0.44	1.11
Atchison	1	25	23251	894	30.5	9.23	1.02	0.30	1.62
Kan. V.S.	1	13	12397	885	28.0	12.09	1.36	0.43	1.13
Boys I.S.	5	29	28331	833	29.0	9.17	1.10	0.31	1.54
Summary	6	43	40856	838	28.9	10.00	1.19	0.34	1.47

Herds milked 3 times a day

*Hutchinson	12	75	59385	672	26.9	8.81	1.29	0.32	1.49
*Parsons	9	62	66336	937	33.9	10.73	1.11	0.33	1.49
*Topeka	5	67	67116	946	30.8	10.64	1.13	0.33	1.48
Summary	9	68	64279	851	30.5	10.06	1.17	0.32	1.48
Total	15	111	105135	1689	59.4	20.06	2.36	0.66	2.95

* Tested in February. Balance of herds estimated on regular cow testing association basis. Butterfat for February was figured at 49% per lb.

Feed prices were figured as follows: bran \$19.00; corn \$23.50; oats \$27.00; barley \$24.00; linseed meal \$33.80; cottonseed meal \$33.80; soybean meal \$29.75; alfalfa \$13.00; silage \$4.00.

KANSAS STATE INSTITUTIONAL DAIRY HERD REPORT

March, 1941

Institution:	Cows dry:	Cows milk:	Total milk:	Milk per cow:	Fat per cow:	Feed cost per cow:	Cost per cwt. milk:	Cost per lb. fat:	Returns per \$1 expended for feed
			lbs.	lbs.	lbs.	\$	\$	%	\$
*Norton	6	48	36409	662	24.6	7.93	1.18	0.31	1.59
*Beloit	0	25	27178	949	36.3	11.25	1.03	0.27	1.80
*Hays	4	28	24179	755	27.6	9.24	1.18	0.33	1.49
*Larned	12	61	65702	911	30.5	9.09	1.05	0.30	1.63
Fort Dodge	6	11	9683	570	19.0	8.66	1.52	0.45	1.10
*Winfield	7	74	89384	1103	38.1	12.64	1.14	0.33	1.50
Lansing	16	111	119857	942	32.4	13.14	1.39	0.39	1.23
*Osawatomie	9	99	101279	937	33.2	10.66	1.13	0.32	1.56
Olathe	0	25	28826	1153	41.4	7.82	0.67	0.19	2.70
*Wom. I. F.	7	7	6014	429	14.6	11.64	2.71	0.66	0.52
*Atchison	1	25	24056	925	30.7	9.93	1.07	0.32	1.59
Kan. V. S.	2	8	9242	924	28.5	8.23	0.89	0.29	1.73
*Boys I. S.	3	30	36309	1037	34.0	9.24	0.89	0.27	1.81
Summary	73	552	577912	921	30.0	9.96	1.22	0.34	1.56
Herds milked three times a day									
Hutchinson	5	80	70988	835	32.6	8.24	0.98	0.21	1.99
Parsons	7	61	78135	1149	38.7	10.90	0.94	0.29	1.79
Top. S. H.	10	72	76874	936	33.2	11.33	1.08	0.34	1.47
Summary	22	213	225997	969	34.8	10.15	1.00	0.28	1.75
Total	95	765	803909	945	32.4	10.55	1.11	0.31	1.65

*Tested in March. Balance of herds estimated on regular cow testing association basis. Butterfat for March was figured at 50¢ per lb.

Feed prices were figured as follows: corn \$23.50; oats \$25.50; barley \$23.50; bran \$18.00; cottonseed meal \$30.50; soybean meal \$28.00; linseed oil meal \$33.30; silage \$4.00; alfalfa \$12.50.

KANSAS STATE INSTITUTIONAL DAIRY HERD REPORT

April, 1941

Institution:	Cows		Total	Milk	Fat	Feed	Cost	Cost	Returns per
	in	dry		per cow	per cow	per cow	per cwt.	per lb.	\$1 expended for feed
			lbs.	lbs.	lbs.	\$	\$	¢	\$
Norton	8	48	35540	634	23.7	8.65	1.36	36	1.41
*Hays	5	26	23892	770	29.6	9.28	1.19	31	1.75
Larned	8	66	71715	969	31.6	9.13	.94	28	1.89
*Fort Dodge	6	14	11621	581	19.3	7.39	1.02	38	1.39
Winfield	13	69	81934	990	32.0	9.81	.98	30	1.72
Osawatomie	4	97	85165	843	29.8	10.01	1.18	33	1.56
*Olathe	1	27	30378	1084	35.3	11.32	1.04	32	1.65
*Lansing	13	113	116410	923	36.5	13.36	1.44	36	1.28
Atchison	3	22	20590	823	27.8	10.04	1.21	35	1.43
Boys I. S.	5	28	34442	1043	33.9	9.05	.86	26	1.98
*Kans. Voc.S.	2	9	9432	857	26.7	8.03	.93	30	1.76
Beloit	3	23	28433	1137	41.5	6.20	.54	15	3.54
*Ellsworth	0	6	5916	969	33.6	11.30	1.12	32	1.61
Summary	71	548	555468	897	30.8	9.50	1.06	31	1.92
Herds milked three times a day									
*Hutchinson	9	76	64785	762	27.9	8.78	1.15	31	1.73
*Parsons	8	64	75345	1032	38.0	10.76	1.02	27	2.06
*Topeka S.H.	12	71	78070	944	33.4	11.42	1.21	34	1.54
Summary	29	211	218200	912	33.1	10.32	1.12	30	1.77
Total	100	759	773668	904	31.9	9.91	1.09	30	1.84

*Tested in April. Balance of herds estimated on regular cow testing association basis. Butterfat for April was figured at 53¢ per lb.

Feed prices were figured as follows: corn \$25.00; oats \$27.00; barley \$25.00; bran \$20.00; cottonseed meal \$31.30; linseed oil meal \$32.30; soybean meal \$29.00; alfalfa \$13.00; silage \$4.00.

KANSAS STATE INSTITUTIONAL DAIRY HERD REPORT

May, 1941

Institution:	: Cows : in : dry:	: milk : milk	: Total : milk	: Milk: : per : cow	: Fat : per : cow	: Feed : per : cow	: Cost : per : cwt.	: Cost : per : lb.	: Returns per : \$1 expended : for feed
*Norton	: 8	: 56	: 38976	: 698	: 25.3	: 7.89	: 1.17	: 31	: 1.69
*Beloit	: 2	: 25	: 27939	: 1117	: 39.8	: 6.35	: .56	: 15	: 3.32
Hays	: 5	: 30	: 27492	: 916	: 33.5	: 9.01	: .98	: 26	: 1.97
Ft. Dodge	: 8	: 20	: 14301	: 715	: 23.7	: 4.52	: .63	: 19	: 2.77
*Larned	: 9	: 67	: 66133	: 987	: 33.3	: 9.32	: .93	: 27	: 1.90
*Winfield	: 15	: 88	: 89350	: 1015	: 32.6	: 7.26	: .71	: 22	: 2.38
*Osawatomie	: 11	: 100	: 81779	: 817	: 27.4	: 8.19	: 1.02	: 29	: 1.77
Olathe	: 3	: 28	: 25283	: 903	: 30.1	: 9.19	: 1.01	: 30	: 1.74
Wom. I.F.	: 8	: 14	: 6107	: 436	: 14.3	: 5.26	: 1.04	: 32	: 1.67
Lansing	: 11	: 124	: 115420	: 930	: 32.4	: 7.61	: .81	: 23	: 2.28
*Atchison	: 6	: 25	: 14940	: 590	: 20.7	: 6.27	: 1.05	: 32	: 1.69
*B.I.S.	: 6	: 36	: 33858	: 940	: 27.5	: 3.40	: .36	: 10	: 4.30
Kans. V.S.	: 1	: 13	: 12279	: 944	: 29.4	: 6.08	: .64	: 21	: 2.56
Summary	: 93	: 626	: 553384	: 846	: 28.4	: 6.95	: .84	: 24	: 2.31

Herds Milked three times a day

Hutchinson	: 12	: 78	: 59144	: 755	: 28.6	: 6.00	: .80	: 21	: 2.40
Parsons	: 10	: 75	: 75531	: 1034	: 37.3	: 12.13	: 1.17	: 32	: 1.62
Topeka	: 6	: 76	: 79430	: 1045	: 36.0	: 10.46	: 1.00	: 29	: 1.82
Summary	: 28	: 229	: 214105	: 944	: 33.9	: 9.53	: .99	: 27	: 1.95

Total : 121 : 855 : 767489 : 895 : 31.1 : 8.24 : .91 : 25 : 2.13

*Tested in May

Balance of herds estimated on regular cow testing association basis. Butterfat for May was figured at 53% per lb.

Feed prices were figured as follows: corn \$27.50; barley \$24.50; oats \$27.00; bran \$18.00; Linseed meal \$32.80; cottonseed meal \$30.30; Soybean meal \$29.00; alfalfa \$12.00; silage \$4.00.

KANSAS STATE INSTITUTIONAL DAIRY HERD REPORT

June, 1941

Institution:	: Cows : in : dry:milk:	: Total : milk	: Milk: : per : cow:	: Fat: : per : cow:	: Feed : cost : per cow:	: Cost : per cwt. : milk	: Cost : per lb. : fat	: Returns per : \$1 expended : for feed
Beloit	: 1 : 25	: 28403	: 1092	: 38.4	: 6.09	: .55	: 15	: 3.47
*Ellsworth	: 1 : 5	: 4773	: 795	: 22.8	: 6.91	: .87	: 30	: 1.78
*Hays	: 4 : 27	: 27195	: 877	: 29.7	: 6.23	: .71	: 21	: 2.61
Norton	: 6 : 49	: 37840	: 688	: 26.0	: 7.60	: 1.10	: 29	: 1.88
*Ft. Dodge	: 10 : 20	: 21068	: 726	: 23.4	: 6.65	: .94	: 29	: 1.89
Larned	: 16 : 60	: 57510	: 750	: 24.5	: 8.09	: 1.00	: 33	: 1.66
Osawatomie	: 11 : 82	: 61920	: 665	: 22.4	: 8.21	: 1.23	: 31	: 1.54
Winfield	: 12 : 76	: 85544	: 970	: 33.0	: 7.17	: .76	: 22	: 2.40
*Olathe	: 10 : 19	: 18289	: 630	: 23.3	: 5.08	: .80	: 21	: 2.52
*Lansing	: 13 : 106	: 98850	: 830	: 29.0	: 9.46	: 1.13	: 32	: 1.66
Atchison	: 8 : 15	: 12200	: 531	: 18.0	: 8.53	: 1.60	: 48	: 1.15
*Kan. V. S.	: 1 : 12	: 12365	: 951	: 30.2	: 6.32	: .66	: 20	: 2.63
B. I. S.	: 5 : 26	: 26599	: 857	: 27.0	: 4.36	: .50	: 16	: 3.41
Summary	: 98 : 522	: 492556	: 794	: 26.7	: 6.97	: .91	: 26	: 2.20

Herds Milked Three Times a Day

*Hutchinson	: 9 : 63	: 64540	: 896	: 33.4	: 7.76	: .89	: 23	: 2.37
*Parsons	: 18 : 47	: 52193	: 803	: 25.5	: 8.13	: 1.01	: 31	: 1.74
*Topeka	: 15 : 71	: 74968	: 871	: 29.2	: 10.53	: 1.20	: 36	: 1.52
Summary	: 42 : 181	: 191701	: 859	: 29.3	: 8.80	: 1.03	: 30	: 1.87
Total	: 140 : 703	: 684257	: 811	: 28.0	: 7.88	: .97	: 28	: 2.03

*Tested for June. Balance of herds estimated on regular cow testing association basis. Butterfat for June was figured at 55¢ per lb.

Feed prices were figured as follows: corn \$28.50; oats \$26.50; bran \$17.50; barley \$25.00; Linseed meal \$31.30; Cottonseed meal \$30.80; Soybean meal \$30.00; silage \$4.00; alfalfa \$11.00.