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Nebraska D.H.I.A. Annual Summary, 1963



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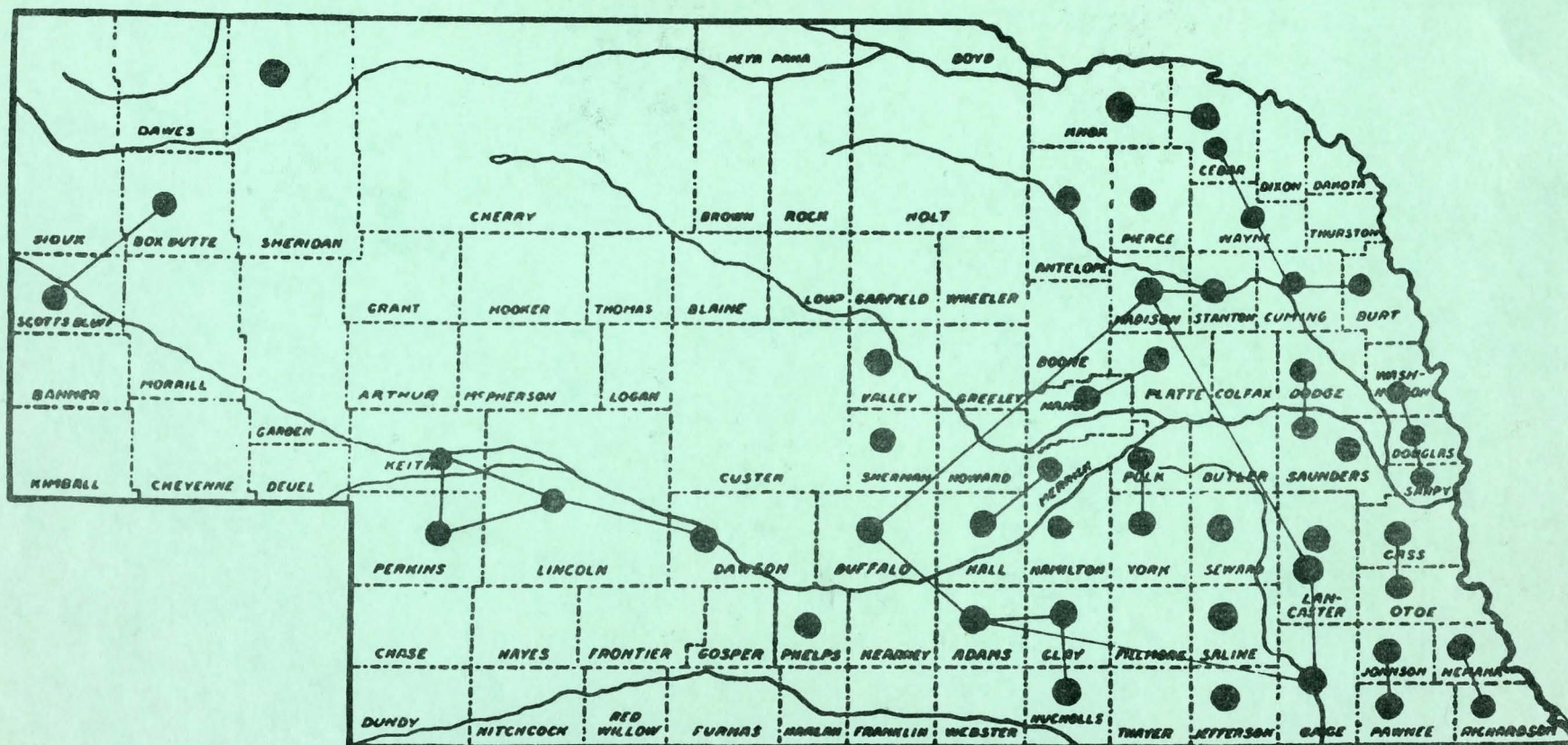


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UNIVERSITY OF NEBRASKA COLLEGE OF AGRICULTURE AND HOME ECONOMICS
AND U. S. DEPARTMENT OF AGRICULTURE COOPERATING
E. F. FROLIK, DEAN E. W. JANIKE, DIRECTOR



- COUNTY ASSOCIATIONS
- INTER-COUNTY ASSOCIATIONS

1963

ANNUAL SUMMARY

DAIRY HERD IMPROVEMENT ASSOCIATIONS

In 1963 records were submitted from 28 associations on 316 Standard D.H.I.A. herds and 12,665 cows. This is the largest number of cows ever submitted for summary. The average production of all cows reported this year was 10,807 pounds of milk and 412 pounds of butterfat. This is an increase of 3,712 pounds of milk and 155 pounds of butterfat per cow compared to the summary submitted by the first Nebraska association in 1910, when the average milk production was 7,095 pounds and the butterfat production 257 pounds.

This year the total includes 316 herds of which 10 percent exceeded an average of 500 pounds of butterfat; 45 percent were between 400-499; 36 percent between 300-399; and nine percent less than 300 pounds of butterfat.

Eighteen associations had all of their records mechanically computed at the Iowa Dairy Record Center. The other ten associations had part of their herds mechanically computed.

In addition to the summary for 316 herds, 56 Owner-Sampler herds with 1,922 cows completed the year. In addition, seven herds with 143 cows were enrolled in the Weigh-A-Day-A-Month recordkeeping system.

The largest association was the Cornhusker Association, with records completed on 1,498 cows. The smallest was the Northwest Association, with 30 cows.

The map on the inside cover shows where associations have members. Most of the associations have members in two or more counties and are designated as Inter-County associations.

Below is the general summary for all associations for the years 1958, 1959, 1962 and 1963.

GENERAL SUMMARY

	<u>1958</u>	<u>1959</u>	<u>1962</u>	<u>1963</u>
Associations Completing Year	28	28	28	28
New Associations Organized	0	0	1	1
Herds Reported	347	321	305	316
Cow Years	9,915	10,440	12,343	12,665
Average Number Cows Per Herd	28.6	32.5	40.5	40.1
Average Number Herds Per Association	12.4	11.5	10.9	11.3
Average Number Cows Per Association	354	373	441	452
Average Pounds Milk Per Cow	9,866	9,879	10,550	10,807
Average Pounds Butterfat Per Cow	380	380	406	412
Average Value Product Per Cow	\$410	\$405	\$419	\$424
Average Roughage Cost Per Cow (Includes Pasture)	82	70	83	84
Average Grain Cost Per Cow	82	78	92	101
Average Total Feed Cost Per Cow	164	148	175	185
Average Value Product Above Feed Cost	246	257	244	239
Average Return for \$1.00 Expended for Feed	\$2.50	\$2.73	\$2.39	\$2.29
Average Feed Cost Per One-Hundred Pounds Milk	1.66	1.50	1.66	1.65
Average Feed Cost Per Pound Butterfat43	.39	.43	.44

OWNER-SAMPLER

Below is listed information for cows enrolled in Owner-Sampler production recordkeeping programs that completed records in 1963. Figures are based on the average for each cow.

<u>Association</u>	<u>Cow Years</u>	<u>Pounds of Milk</u>	<u>Pounds of Butterfat</u>	<u>Value of Product</u>	<u>Feed Cost</u>			<u>Value of Prod. Over Feed Cost</u>	<u>Feed Cost For 100 Lbs. 1--Lb.</u>	
					<u>Roughage*</u>	<u>Grain</u>	<u>Total</u>		<u>Milk</u>	<u>B.F.</u>
Custer	27.3	6,773	271							
Douglas-Sarpy-Washington	263.4	11,289	412	\$390	\$ 91	\$110	\$201	\$189	\$1.78	\$.49
East Central	22.0	7,314	323	331	74	89	163	168	2.22	.50
K. B. R.	50.9	9,483	323	260	38	102	140	120	1.47	.43
Knox-Cedar	79.7	9,688	365	280	40	81	121	159	1.25	.33
Loup Valley	174.8	11,016	407	393	69	98	167	226	1.51	.41
Nebraska-Iowa Milk Assn.	1,158.0	10,918	396							
Northeast	33.5	10,337	367	379	60	108	168	211	1.63	.46
North Platte Valley	39.1	9,435	336	366	108	79	187	179	1.98	.56
Pierce	26.4	9,095	336	256	47	78	125	131	1.38	.37
West Central	47.1	8,601	318	342	69	72	141	201	1.63	.44
STATE AVERAGE	1,922.1	10,666	389	\$358**	\$ 72**	\$ 98**	\$170**	\$188**	\$1.63**	\$.45**

* Includes cost of pasture

** Average on 737.0 cows

WEIGH-A-DAY-A-MONTH

Below is listed information for cows enrolled in Weigh-A-Day-A-Month recordkeeping programs. Figures are based on the average for each cow.

<u>County</u>	<u>Cow Years</u>	<u>Pounds of Milk</u>	<u>Pounds of Butterfat</u>	<u>Value of Product</u>	<u>Feed Cost</u>	<u>Value of Prod. Over Feed Cost</u>	<u>Feed Cost For 100 Lbs. 1--Lb.</u>	
							<u>Milk</u>	<u>B.F.</u>
Boyd	16.0	9,165	353	\$271	\$129	\$142	\$1.41	\$.37
Cass	41.5	9,073	354	359	139	220	1.53	.39
Holt	24.9	9,101	332	252	146	106	1.60	.44
Otoe	14.8	6,370	205	182	120	62	1.89	.59
Saunders	45.9	9,902	345	378	165	213	1.66	.48
STATE AVERAGE	143.1	9,074	331	\$319	\$145	\$174	\$1.60	\$.44

SUMMARY OF HERD PRODUCTION IN DIFFERENT ASSOCIATIONS

<u>Association</u>	<u>No. Herds in Assn.</u>	<u>No. Herds Pro- ducing Below 299 Lbs. B.F.</u>	<u>No. Herds Pro- ducing 300 to 399 Lbs. B.F.</u>	<u>No. Herds Pro- ducing 400 to 499 Lbs. B.F.</u>	<u>No. Herds Pro- ducing in excess 500 Lbs. B.F.</u>
Antelope	3	2	1	0	0
Boone	9	3	6	0	0
Cass-Otoe	9	1	3	5	0
Central	1	0	0	1	0
Clay-Adams	7	1	2	4	0
Cornhusker	45	3	25	14	3
Dept. of Public Institutions	6	0	0	3	3
Dodge-Saunders	12	0	7	5	0
Douglas-Sarpy- Washington	22	0	5	11	6
East Central	2	0	0	2	0
Gage County	26	0	8	16	2
Hall-Merrick	12	0	8	3	1
Hamilton	10	2	3	3	2
Jefferson	21	0	5	15	1
Johnson	11	3	3	4	1
Knox-Cedar	6	5	0	1	0
Norfolk	10	1	2	6	1
Northeast	13	4	4	3	2
Northwest	1	0	0	1	0
North Platte Valley	6	0	4	2	0
Pierce	8	1	6	1	0
Platte Valley	15	0	1	10	4
Richardson	15	0	1	10	4
Saline	2	0	1	1	0
Seward	11	0	5	4	2
Valley	2	1	1	0	0
West Central	23	3	9	10	1
York-Polk-Fillmore	8	0	0	6	2
TOTALS	316	30	114	141	31

AVERAGE PRODUCTION OF THE HIGH AND LOW HERDS

For 1963 the average production of the 12 highest-producing and the 12 lowest-producing herds was compared. Herds consisted of 10 or more cows. The average cow in the highest-producing herds produced 2.2 times more milk and 2.3 times more butterfat than the average cow in the lowest-producing herds. The high-producing cows marketed \$244 worth of feed and the low-producing cows \$118 worth of feed. The value of the product over feed for the best cows was \$412 and for the lower-producing cows \$130. Assuming that other expenses like housing costs, veterinarian's bills, equipment costs and miscellaneous costs are about \$90 annually for the better cows and about \$70 annually for the lower producers, the total costs then would be \$244 plus \$90 or \$334 and \$118 plus \$70 or \$188. Subtract the total costs from the value of the product and the high-producing cows gave a labor income of \$322 and the low-producing cows a labor income of \$60.

Another interesting figure in this summary is the average number of days each group of cows were in milk and the number of days dry. The high-producing cows produced milk 48 more days than did the cows in the low-producing group.

The cost of feed includes all feed, like hay, all silages, green chop, grain, protein concentrates or any feed purchased. The price of feeds reflect their market value upon the farm. The cows are charged for the feed at the same rate that neighbors would pay for the feeds.

Below are tabulated results for 1963.

Information about the 12 High- and 12 Low-Producing Herds (10 or more cows in a herd)

<u>Year</u>	<u>High</u> <u>1963</u>	<u>Low</u> <u>1963</u>
Cows in Herd	43.2	31.7
Milk Production	15,201 lbs.	6,993 lbs.
Test of Milk	3.8%	3.5%
Butterfat Production	571 lbs.	245 lbs.
Value of Product	\$656	\$248
Feed Cost	\$244	\$118
Value of Product Over Feed Cost	\$412	\$130
Feed Cost Per One-Hundred Pounds Milk	\$1.60	\$1.69
Feed Cost Per Pound Butterfat	\$.43	\$.48
Pounds of Hay	5,866	3,336
Pounds of Silage	14,669*	7,698*
Pounds of Grain	5,360	1,811
Milk Produced Per Pound Grain Fed	2.8 lbs.	2.8 lbs.
Average Number Days in Milk	321	273
Average Number Days Dry	44	92

* Includes Green Chop

AVERAGE PRODUCTION AND GENERAL INFORMATION FROM
DAIRY HERD IMPROVEMENT ASSOCIATIONS RECORDS FROM 1939 TO 1963

<u>Year</u>	<u>Cows Tested</u>	<u>Average Milk Production Pounds</u>	<u>Average Butterfat Production Pounds</u>	<u>Value of Product</u>	<u>Feed Cost</u>	<u>Returns Over Feed Cost</u>	<u>Feed Cost</u>	
							<u>Per Cwt. Milk</u>	<u>Per Pound B.F.</u>
1939-40	2,805	9,367	358	\$170	\$ 64	\$106	\$.68	\$.18
1940-41	2,870	9,493	360	181	68	113	.72	.19
1941-42	1,519	8,625	340	169	63	106	.73	.19
1942-43	867	8,436	344	197	73	124	.87	.21
1944-45	480	8,603	347	267	117	150	1.36	.34
1945-46	446	9,623	371	284	128	156	1.33	.35
1946-47	1,790	9,208	342	352	156	196	1.69	.46
1947-48	3,454	9,067	341	375	176	199	1.94	.52
1948-49	3,976	8,859	341	379	160	219	1.81	.47
1949-50	4,104	9,101	349	362	140	222	1.54	.40
1950-51	4,892	9,216	352	377	154	223	1.67	.44
1951-52	5,144	9,073	344	399	168	231	1.85	.49
1952-53	5,935	9,337	355	431	176	255	1.84	.49
1953-54	6,892	9,666	368	413	179	234	1.78	.47
1954-55	7,692	9,695	371	389	168	221	1.73	.45
1955-56	8,420	9,883	379	397	167	230	1.69	.44
1956-57	8,564	10,163	390	419	178	241	1.75	.46
1957-58	9,915	9,866	380	410	164	246	1.66	.43
1958-59	10,440	9,879	380	405	148	257	1.50	.39
1962	12,343	10,550	406	419	175	244	1.66	.43
1963	12,665	10,807	412	424	185	239	1.65	.44

The average production for a period of twenty-three years presents some very interesting facts. The average production of cows in dairy herd improvement associations has fluctuated up and down over a period of years. In 1963 three factors are apparent: (1) Summary on the most cows, (2) highest average milk and butterfat production per cow and (3) slight decrease in returns above feed cost. There is still an opportunity to increase average production.

With herds continuing to increase in size, the average production per cow may drop unless dairymen are constantly aware of the importance of high production for individual cows. The greatest controllable factor in determining the returns from our cows is production per cow. Every dairyman needs to work towards a definite goal of high herd averages. This should be based on high average milk production.

RELATIONSHIP BETWEEN PRODUCTION, FEED CONSUMPTION
AND INCOME OVER FEED COST

Below is a comparison of 256 herds that had all their records machine processed at the Iowa Dairy Record Processing Center. The herds are grouped according to their average milk production.

Number Herds	Size of Herd-Cows	Milk Lbs.	Test %	B.F. Lbs.	Days in Milk %	Value of Product	Feed Cost*	Income Over Feed Cost	Feed Cost Per Cwt. Milk
5	33.4	6,214	4.6	285	76	\$257	\$134	\$123	\$2.16
21	36.0	7,028	4.4	307	81	289	130	159	1.85
26	44.8	7,963	4.5	362	85	346	145	201	1.82
32	38.3	9,010	4.0	356	83	350	152	198	1.69
37	39.9	9,938	3.8	374	84	379	168	211	1.69
46	35.8	11,044	3.7	407	84	416	189	227	1.71
48	40.9	11,940	3.7	440	86	449	193	256	1.62
23	44.4	13,090	3.7	478	87	504	216	288	1.65
15	58.6	13,950	3.7	511	87	543	216	327	1.55
2	66.1	14,881	3.7	546	88	674	219	455	1.47
1	62.7	16,338	3.7	604	89	747	227	520	1.39
256 Ave.	41.0	10,466	3.8	401	84	407	176	231	1.70

* Feed costs can also be interpreted as the value of feed marketed by the cows.

The table below shows the feed consumed by cows producing at different levels. In general, as production increased, the pounds of feed consumed increased. The higher-producing herds ate more grain and they also secured a higher percent of their net energy from grain. The rate at which roughage was consumed was highest for the high-producing herds. It appears from this table that the high-producing herds are less dependent upon pasture than the low-producing herds. Milk production per worker was higher for the Nebraska herds than the United States herds.

Milk Pounds	B.F. Pounds	Concentrates Pounds-%N.E.	Succulent Forage Pounds-%N.E.	Dry Forage Pounds-%N.E.	Pasture Cow-Days-%N.E.	Rate of Roughage Feeding	Milk Per Worker 1,000 Lbs.
6,214	285	2,700 34	5,500 13	4,200 29	182 24	2.4	294
7,028	307	2,800 37	6,500 17	3,900 28	151 19	2.1	487
7,963	362	3,100 40	7,600 19	3,800 26	142 14	2.1	383
9,010	356	3,500 40	8,700 19	4,400 27	132 14	2.1	430
9,938	374	3,600 38	7,300 15	5,700 34	117 13	2.3	497
11,044	407	4,200 42	9,500 18	5,500 30	100 10	2.2	589
11,940	440	4,300 42	8,200 15	5,500 29	127 13	2.3	615
13,090	478	4,400 40	10,900 21	5,900 30	99 9	2.4	607
13,950	511	5,100 44	11,900 19	5,100 26	123 11	2.3	567
14,881	546	4,600 40	19,600 28	5,700 28	45 5	2.5	401
16,338	604	4,800 41	22,600 34	3,500 17	180 8	2.7	285
10,466 Ave.	401	3,900 40	8,700 18	5,100 29	123 13	2.2	527

SILVER PLAQUE AND SILVER BAR AWARDS

From 1929 to 1958 the Nebraska State Dairymen's Association awarded dairymen a Silver Plaque when their herd of ten or more cows produced an average of 400 pounds of butterfat for five consecutive years, with a production of not less than 350 pounds for any one of the five years. Starting in 1958 the requirements were increased to 425 and 375 pounds of butterfat, respectively. Starting in 1948 a Silver Bar, to be attached to the Plaque, was awarded when dairymen completed a second or subsequent five-year period with the same production. This requirement was also increased by 25 pounds of butterfat. Since the program was inaugurated the following have received awards:

<u>Name</u>	<u>Address</u>	<u>Year</u>	<u>No. Cows</u>	<u>5-Year Fat Ave.</u>
C. E. Olmstead	Roca	1929	24	422
C. H. Becker & Sons	Emerald	1930	17	475
Norfolk State Hospital	Norfolk	1930	57	457
		1936	61	444
		1941	64	489
		1952	94	405
		1957	105	414
		1962	81	504
F. E. Putnam & Sons	Crete	1931	21	400
L. T. Willeman	Central City	1932	16	402
Frank Ourado	Overton	1932	11	404
Harry Gordon	Harvard	1932	14	409
M. M. Cherry	Craig	1933	11	400
Henry Holling	Millard	1933	18	400
		1938	17	448
		1933	14	403
		1933	17	404
		1933	10	412
Sam Cummings	Tecumseh	1933	10	412
Ed J. Renard	Arlington	1933	18	431
Helmut Griess	Hampton	1933	11	448
Donald Haggart	Grand Island	1933	18	431
		1953	11	448
		1933	10	431
		1933	10	433
		1938	11	412
W. A. Peterson & Son	Oakland	1933	10	431
Roland Ramsay	Seward	1933	10	433
		1938	11	412
		1948	12	406
		1953	13	431
		1958	12	436
		1963	15	426
E. T. Pliefke	Gresham	1934	12	422
Wm. Lohman	Harbine	1934	15	434
H. L. & Merle Severe	Palmyra	1934	22	411
		1939	20	428
		1944	22	436
		1950	34	415
		1955	24	420
Fred Liebers	Bennet	1935	12	418
		1940	10	452
		1945	11	455
		1935	22	422
Otto Becker	Emerald	1935	22	422
Leo Schumacher	Minatare	1936	26	410
Mrs. Sam Sorenson	Benson Sta., Omaha	1937	17	402
C. E. Moore	Decatur	1938	13	405
A. W. Ackerman	Bennington	1939	38	553

SILVER PLAQUE AND SILVER BAR AWARDS (Continued)

<u>Name</u>	<u>Address</u>	<u>Year</u>	<u>No. Cows</u>	<u>5-Year Fat Ave.</u>
Wm. Smith, Jr.	Columbus	1939	44	407
Reformatory for Men	Lincoln	1941	102	408
		1959	84	476
Rudolph Otte	Papillion	1941	15	403
O. H. & L. E. Liebers	Lincoln	1941	47	427
		1946	49	431
		1952	50	423
		1957	56	448
		1962	56	471
Scotts Bluff Exp. Station	Mitchell	1940	17	420
		1945	22	461
		1951	27	465
		1956	39	442
		1963	54	435
F. A. & Paul Swanson	Stromsburg	1943	11	402
		1948	13	433
		1953	17	413
		1958	23	423
		1963	32	452
Hastings State Hospital	Ingleside	1943	90	410
		1959	99	410
Lancaster County Farms	Lincoln	1945	13	423
Milton Bletscher	Falls City	1946	14	413
		1953	15	421
		1958	21	494
		1962	32	539
Joe P. Muller	Valley	1948	31	459
		1953	65	413
		1958	78	449
Pfeiffer Farms	Arlington	1948	29	408
		1953	36	441
		1958	71	430
Herschel Flower	Fairbury	1949	71	430
		1954	103	445
		1959	138	481
R. P. Flynn & Sons	Blair	1949	32	408
		1955	51	408
		1960	82	474
Leonard Schafer	Daykin	1950	11	414
Calvin Ewing	Mitchell	1951	10	407
Clark Nash	Palmyra	1952	11	497
		1957	12	603
George Senkbeil	Grand Island	1952	39	438
Wm. F. & Ruben Meier	Grand Island	1952	54	409
		1959	63	402
Carl Jensen	Elkhorn	1952	12	486
		1957	18	442
William Jensen	Elkhorn	1952	12	403
Smith's Dairy	Columbus	1952	81	421
Barton Cooper	Milford	1952	19	457

SILVER PLAQUE AND SILVER BAR AWARDS (Continued)

<u>Name</u>	<u>Address</u>	<u>Year</u>	<u>No. Cows</u>	<u>5-Year Fat Ave.</u>
Wm. Ehrisman	Beemer	1952	14	412
		1957	19	574
		1962	47	474
Harry Hammel	Lyons	1952	11	425
		1957	14	462
Wm. E. Von Seggren	Wayne	1952	29	446
Gunnar Swanson	Laurel	1952	14	414
John Cander	Humboldt	1952	13	429
		1957	25	445
		1961	38	453
Herman Rife	Torrington, Wyoming	1952	16	403
Girl's Training School	Geneva	1952	19	431
W. D. Kinnamon	Utica	1953	10	406
Robert Koehler	Fremont	1953	10	415
		1958	24	464
N. Chris Nelson	Fremont	1953	17	400
Marvin Schulz & Walter Gass	Seward	1953	15	426
Alfred T. Penner	Beatrice	1953	10	417
		1958	13	425
		1963	20	472
Paul Claassen	Beatrice	1954	13	442
		1963	36	469
Lloyd & Roland Johnson	Hershey	1954	26	426
		1959	38	417
Paul Alms	York	1954	16	421
		1963	23	425
Floyd Curtis	Tilden	1954	12	418
State Penitentiary	Lincoln	1954	106	408
		1959	108	479
Henry Neuhaus	Omaha	1954	16	407
Fred Eipperle	Bennington	1954	33	406
Irvin Brahmer	Wisner	1954	13	406
R. E. Swan	Ogallala	1954	10	412
		1959	15	430
Maurice Dasenbrock	Leigh	1955	23	453
Elmer Dasenbrock	Leigh	1955	22	452
		1959	23	482
Drawbaugh Brothers	Gering	1955	12	421
		1959	15	430
Gerald Armstrong	Auburn	1955	12	413
		1959	12	408
Arthur Wiechert	Lincoln	1955	23	411
		1959	38	411
Gustav Epp	Henderson	1955	10	407
		1961	16	428
Fred Wantoch	Stanton	1955	27	404
Ernest & Richard Tempel	Seward	1955	14	401
		1959	27	477
Robert Nauman	Lincoln	1956	10	450
		1960	16	440
Mr. & Mrs. Frank Ehlers	Chadron	1956	30	448
Howard Myers	Roca	1956	14	420

SILVER PLAQUE AND SILVER BAR AWARDS (Continued)

<u>Name</u>	<u>Address</u>	<u>Year</u>	<u>No. Cows</u>	<u>5-Year Fat Ave.</u>
Paul Troester	Hampton	1956	20	414
		1960	53	434
University of Nebraska	Lincoln	1956	84	412
		1960	78	479
John Frew	Crete	1956	17	408
Herbert Keefer	Papillion	1956	19	407
		1960	35	434
Glenn Merz	Falls City	1956	20	405
Paul Riggert	Odell	1956	18	403
LeRoy Nelson	Mead	1956	16	402
Lester Fishler	Central City	1957	34	462
		1962	43	516
Harvey Petersen	Papillion	1957	14	448
		1963	25	429
Beatrice State Home	Beatrice	1957	106	445
		1962	103	516
John Rhodes	Beatrice	1957	31	419
		1963	43	428
C. E. Myers	York	1956	13	419
		1961	13	457
Norris & Roger Otto	Phillips	1957	31	408
		1962	75	451
Floyd Rice & Son	Fairbury	1957	30	407
George D. Satterfield	Springfield	1957	23	407
Harold Thomsen	Omaha	1957	31	405
Vern A. Krull	Roca	1957	24	404
Wayne Gilliland	Wayne	1957	19	404
		1961	28	428
Father Flanagan's Boys Home	Boys Town	1957	83	403
Donald Meier	Grand Island	1957	24	403
Arthur Schneekloth	Blair	1958	15	480
Willis Armbrust	Millard	1958	24	460
Francis P. Goin	Wymore	1958	17	457
		1962	38	445
Oscar McHargue	Central City	1958	40	450
		1962	64	428
Glen Perkins	North Platte	1958	17	444
Vernon Huneke	Wilber	1958	16	433
Clarence Maahs	Walton	1958	29	426
Elwin Diedrichsen	Scribner	1958	20	423
Paul Luebbe	Beaver Crossing	1958	15	418
		1963	18	426
Bernard Kremer	Milford	1958	16	415
Bill Hertel, Jr.	Clay Center	1958	17	415
		1963	20	478
Seacrest Farm	Lincoln	1958	49	409
Herbert Vollmer	Falls City	1958	37	404
		1962	50	434
Roy Dickey	Laurel	1959	24	497
R. E. Jacobs	Plattsmouth	1959	25	454
Henry Hirschler	Jansen	1959	27	450
Henry Schwisow	Fairbury	1959	29	443
		1963	33	469

SILVER PLAQUE AND SILVER BAR AWARDS (Continued)

<u>Name</u>	<u>Address</u>	<u>Year</u>	<u>No. Cows</u>	<u>5-Year Fat Ave.</u>
Joe Lorenz	Crete	1959	37	442
A. D. Wiens	Ayr	1959	20	442
Arthur Anderson	Genoa	1959	31	419
Roberts Dairy	Elkhorn	1959	81	414
Leonard Maschman	Daykin	1959	18	410
Ralph Berry & Sons	Martell	1959	25	408
Luke Chapman	North Bend	1959	25	407
Arnold Bremer	Palmyra	1959	16	401
Rudolph Schlichting	Lyons	1959	22	463
Robert Guiles	North Platte	1959	16	458
Charles F. Emanuel	North Bend	1959	32	457
Fred Wesch	North Bend	1959	25	457
W. R. Penner	Beatrice	1959	31	448
R. L. Leavitt & Sons	Lincoln	1959	32	424
J. T. Claassen Sons	Beatrice	1959	64	423
Marion Condon	Aurora	1960	33	423
William Goossen	Beatrice	1959	23	416
Walter Kottich & Sons	Falls City	1959	32	409
O. W. Moore	Gering	1959	46	404
Joe & Jack Nitz	Cedar Bluffs	1959	19	401
Ted Martin	Arlington	1960	23	407
Lowell Wells	Sabetha, Kansas	1960	22	461
Willard Trimble	Humboldt	1960	23	441
Leonard Schwisow	Powell	1960	29	411
Richard Senkbeil	Grand Island	1961	14	474
Elton & Kathleen Lux	Lincoln	1961	10	436
Raymond H. Newman	York	1961	64	431
Lester Apel	Falls City	1961	21	468
Deyo Traeger	Thompson	1961	26	451
Richard G. Penner	Beatrice	1961	28	435
Melvin Miller	Clatonia	1961	18	431
Phillips Brothers	Beaver Crossing	1962	52	499
Thead L. Nelson	Ord	1962	19	483
Malcolm Pollard	Nehawka	1962	36	442
Boys' Training School	Kearney	1962	34	427
Charles Sandfort	Humboldt	1962	28	554
Raymond Severin	Princeton	1962	25	434
Mark Weeder	Lindsay	1962	60	432
Henry Drueke	West Point	1963	27	470
Don Wacker	Norfolk	1963	24	460
Lowell Heim	Dawson	1963	29	459
Everett Nolte, Jr.	Salem	1963	23	454
Uni. of Nebr. Exp. Station	North Platte	1963	49	449
Harold C. Vitosh	Blue Springs	1963	38	448
Walter H. Stuhr	York	1963	30	437
Adolph Kapels & Sons	Creston	1963	52	432
Peterson Dairy Farm	Herman	1963	67	426
Milton P. Hensley	Central City	1963	24	425

SUMMARY

This report contains a summary of the dairy production testing work in Nebraska for 1963. We sincerely hope you will find this information of interest to you as a dairyman or as one interested in the dairy business.

This report indicates many changes taking place in our dairy herd improvement association work. At the end of 1963 about 85 percent of all records were machine calculated. The number of herds enrolled in the D.H.I.R. program increased during the year. The herds enrolled in the H.I.R. and D.H.I.R. program by breeds were as follows:

	<u>HIR</u>	<u>DHIR</u>	<u>Total</u>
Brown Swiss	0	3	3
Guernsey	2	7	9
Holstein	13	23	36
Jersey	1	3	4
Milking Shorthorn	0	3	3
TOTAL	16	39	55

During the year 9,605 lactation records were reported to the Agricultural Research Service, USDA, for sire summaries. This represents 70 percent of Nebraska's records. The source of the lactation records was as follows: Machine processed records 8,952, hand calculated 718 cards 411, and breed association records 242. Lactation records from Nebraska contributed to the summaries of 282 sires that had daughters in Nebraska in 1963. By breeds the sire summaries were as follows: Ayrshires 1, Brown Swiss 26, Guernseys 40, Holsteins 199, Jerseys 10, and Milking Shorthorns 6.

The dairymen that are members of dairy herd improvement associations and have records kept on individual cows have found the money they spent for this work a wise investment. The investment of about \$7 per year per cow for the production record and its related information has been worth many times this amount in the sale of animals. The records have also been excellent tools or guides in improving production of herds and for the evaluating of dairy sires.

A few comparisons show the progress D.H.I.A. members have made.

In 1963 the average milk and butterfat production was the highest on record. In 1959 three percent of the herds averaged more than 500 pounds of butterfat, in 1963 this had increased to ten percent. In 1959 sixteen percent of the herds produced less than 300 pounds of butterfat, in 1963 it was lowered to nine percent.

In 1959 the 12 highest-producing herds averaged 13,492 pounds of milk and 509 pounds of butterfat. In 1963 this had increased to 15,201 pounds of milk and 571 pounds of butterfat. In 1959 the 12 lowest-producing herds averaged 5,480 pounds of milk and 225 pounds of butterfat. In 1963 this had increased to 6,993 pounds of milk and 245 pounds of butterfat.

Compared to the average Nebraska dairy cow that annually produces 6,300 pounds of milk, the average D.H.I.A. cow exceeds this by 4,507 pounds of milk. The cow in the 12 highest-producing herds exceeds the average cow by 8,901 pounds of milk. Even the cow in the 12 lowest-producing D.H.I.A. herds exceeds the average Nebraska dairy cow by 693 pounds of milk.

This summary definitely indicates that D.H.I.A. members have used their records to (1) cull low-producing, non-profitable cows from their herds, (2) to improve their feeding and management practices, (3) to keep better information on breeding and calving dates, and (4) to evaluate sires to a better advantage.