

**Table 1. Participation in Various DHIA Testing Program**

Type of Test	Total herds	%	Cows	Cows/Herd	Milk	Fat	Protein	% Shipped
DHI	47	4.96	6,469	137	22,021	828	682	101
DHI-APT	137	14.45	12,818	93	18,575	682	574	101
DHI-APCS	35	3.69	9,703	277	20,079	746	619	101
DHIR	23	2.43	2,434	105	19,724	753	627	100
DHIR-APT	54	5.70	5,354	99	19,101	735	607	101
DHIR-APCS	16	1.69	1,993	124	19,561	730	608	101
DHIR-AP	64	6.75	6,208	97	20,577	775	648	101
DHI-AP	396	41.77	48,840	123	18,601	687	576	100
OS	24	2.53	1,873	78	17,849	682	552	102
OS-AP	122	12.87	15,891	130	19,243	693	593	102
OS-APCS	23	2.43	3,236	140	20,372	760	621	100
OS-MO	1	.11	113	113	17,391	—	—	105
OS-MO-AP	6	.63	460	76	14,594	—	—	103
	948		115,392	122	19,191	712	596	101

**Table 2. Statistical Summary of HOA DHI Herds for 2001**

Avg. milk / cow / year (lb)	19,191
Number of DHI herds	948
Cows / herd	122
Avg percent fat	3.71
Avg percent protein	3.11
Avg percent in milk	85.9
Avg calving interval	432.2
Avg somatic cell count (000)	442.3
Value of milk / cow (\$)	2,724
Avg milk price / cwt (\$)	14.22
Total feed costs / cow (\$)	1,042
Income over feed cost / cow (\$)	1,701
Feed cost / cwt milk (\$)	5.47

**Table 3. Quartiles by Breed**

Quartiles	Ayrshire			
	1	2	3	4
Milk (lb)	11,571	13,528	14,801	16,935
Milk fat (lb)	451	528	602	577
Protein (lb)	378	439	480	532
Calving interval (days)	459	449	400	412
Somatic Cell Count (000)	339	445	400	438
Income over feed costs (\$)	516	727	1,303	1,338

**Table 4. Quartiles by Breed**

Quartiles	Brown Swiss			
	1	2	3	4
Milk (lb)	13,369	15,248	16,770	19,875
Milk fat (lb)	528	612	669	778
Protein (lb)	464	538	565	667
Calving interval (days)	465	431	449	440
Somatic Cell Count (000)	424	526	562	532
Income over feed costs (\$)	1,054	1,332	1,652	1,816

**Table 5. Quartiles by Breed**

<b>Guernsey</b>				
<b>Quartiles</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Milk (lb)	11,731	12,955	13,583	17,295
Milk fat (lb)	522	560	584	769
Protein (lb)	413	429	442	575
Calving interval (days)	503	453	450	454
Somatic Cell Count (000)	522	304	259	483
Income over feed costs (\$)	1,225	1,204	1,261	1,612

**Table 6. Quartiles by Breed**

<b>Holstein</b>				
<b>Quartiles</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Milk (lb)	14,331	17,503	19,963	23,208
Milk fat (lb)	521	655	736	849
Protein (lb)	446	546	617	710
Calving interval (days)	439	428	430	434
Somatic Cell Count (000)	594	465	400	385
Income over feed costs (\$)	1,115	1,534	1,602	2,218

**Table 7. Quartiles by Breed**

<b>Jersey</b>				
<b>Quartiles</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Milk (lb)	10,949	13,096	14,254	16,637
Milk fat (lb)	487	589	654	772
Protein (lb)	388	472	511	593
Calving interval (days)	401	409	404	413
Somatic Cell Count (000)	676	457	341	258
Income over feed costs (\$)	958	1,380	1,708	2,064

**Table 8. Quartiles by Breed**

<b>Milking Shorthorn</b>				
<b>Quartiles</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Milk (lb)	9,251	13,277	14,109	14,109
Milk fat (lb)	315	487	519	455
Protein (lb)	300	412	448	434
Calving interval (days)	376	411	410	504
Somatic Cell Count (000)	396	324	288	167
Income over feed costs (\$)	—	1,185	1,550	1,249

**Table 9. Why Cows are Leaving the Herd?**

Reason	Number	Percent
Dairy	3,312	6.9
Died	10,311	21.6
Disease	2,333	4.9
Feed	2,142	4.5
Injury	6,448	13.5
Low production	3,799	7.9
Mastitis	6,662	13.9
Not reported	3,403	7.1
Reproduction	8,051	16.9
Udder	1,159	2.4

**Table 10. HOA Breed Averages**

	No. of Herds	Milk	Fat	Protein	IOFC	Freshening Interval	SSC Avg (000)
Ayrshire	8	14,024	538	453	893	436	431
Brown Swiss	29	16,764	663	573	1,518	445	512
Guernsey	8	13,859	606	463	1,316	463	378
Holstein	853	19,418	716	600	1,716	432	443
Jersey	44	14,143	646	506	1,605	408	409
Milking Shorthorn	6	13,697	490	427	1,330	427	284

**Table 11. HOA District Averages — 2001**

	Herds	Cows	Cows/ herd	Milk	Fat	Protein	Income \$	IOFC \$	Milk Price
N. Dakota	64	6,663	103	19,455	702	589	2,759	1,896	14.21
S. Dakota	193	25,493	132	18,807	712	586	2,725	1,917	14.42
Nebraska	224	28,405	126	19,945	748	620	2,799	1,756	14.04
Kansas	308	35,138	114	19,774	739	615	2,766	1,582	13.96
Arkansas	57	6,130	107	16,085	580	505	2,459	1,466	15.23
Oklahoma	102	13,596	133	18,101	629	559	2,558	1,605	14.42

**Table 12. HOA Five-year Rolling Herd Average**

	1997	1998	1999	2000	2001
Milk	18,270	18,526	19,035	19,717	19,191
Fat	657	671	691	722	712
Protein	582	595	620	622	596



**HEART OF  
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