

Table 1. Participation in Various DHIA Testing Program

Type of Test	Total herds	%	Cows	Cows/Herd	Milk	Fat	Protein	% Shipped
DHI	28	3.09	4,275	153	23,543	856	730	101
DHI-APT	126	13.9	12,175	97	19,230	708	594	101
DHI-APCS	40	4.42	13,996	350	22,294	792	649	101
DHIR	17	1.88	1,955	115	21,212	785	666	102
DHIR-APT	57	6.29	5,580	98	18,917	727	614	99
DHIR-APCS	17	1.88	1,676	99	19,637	732	614	98
DHIR-AP	69	7.62	6,733	98	20,600	793	650	99
DHI-AP	378	41.72	48,443	128	19,471	712	598	101
OS	24	2.65	1,878	78	17,050	642	526	102
OS-AP	122	13.47	16,405	134	20,164	728	622	101
OS-APCS	21	2.32	2,867	137	20,628	782	632	98
OS-MO	1	.11	195	195	19,373	—	—	102
OS-MO-AP	5	.55	211	421	7,574	—	—	103
	906	116,384	129	20,086	783	615	102	

Table 2. Statistical Summary of HOA DHI Herds for 2002

Avg. milk / cow / year (lb)	20,086
Number of DHI herds	906
Cows / herd	129
Avg percent fat	3.70
Avg percent protein	3.10
Avg percent in milk	86.0
Avg calving interval	436.8
Avg somatic cell count (000)	379.9
Value of milk / cow	2,427
Avg milk price / cwt (\$)	12.16
Total feed costs / cow (\$)	992
Income over feed cost / cow (\$)	1,424
Feed cost / cwt milk (\$)	5.09

Table 3. Quartiles by Breed

Quartiles	Ayrshire			
	1	2	3	4
Milk (lb)	13,591	14,629	16,183	19,145
Milk fat (lb)	547	548	587	686
Protein (lb)	436	471	510	587
Calving interval (days)	403	453	401	431
Somatic Cell Count (000)	N/A	389	216	225
Income over feed costs (\$)	669	880	846	1,451

Table 4. Quartiles by Breed

Quartiles	Brown Swiss			
	1	2	3	4
Milk (lb)	13,169	15,663	18,133	20,905
Milk fat (lb)	510	608	726	809
Protein (lb)	450	528	616	700
Calving interval (days)	474	468	434	453
Somatic Cell Count (000)	352	421	389	421
Income over feed costs (\$)	783	1,061	1,351	1,427

Table 5. Quartiles by Breed

Guernsey				
Quartiles	1	2	3	4
Milk (lb)	12,256	13,144	13,357	15,224
Milk fat (lb)	517	592	589	651
Protein (lb)	438	437	439	508
Calving interval (days)	503	489	461	469
Som698c Cell Count (000)	698	309	359	310
Income over feed costs (\$)	976	979	1,023	896

Table 6. Quartiles by Breed

Holstein				
Quartiles	1	2	3	4
Milk (lb)	15,213	18,157	20,421	23,513
Milk fat (lb)	562	661	767	862
Protein (lb)	473	558	630	721
Calving interval (days)	444	440	441	429
Somatic Cell Count (000)	479	406	366	333
Income over feed costs (\$)	884	1,184	1,402	1,869

Table 7. Quartiles by Breed

Jersey				
Quartiles	1	2	3	4
Milk (lb)	9,230	13,130	14,839	17,076
Milk fat (lb)	421	589	699	784
Protein (lb)	339	469	534	617
Calving interval (days)	441	421	406	420
Somatic Cell Count (000)	591	463	292	296
Income over feed costs (\$)	404	759	1,399	1,538

Table 8. Quartiles by Breed

Milking Shorthorn				
Quartiles	1	2	3	4
Milk (lb)	11,526	14,393	14,732	15,242
Milk fat (lb)	400	496	502	536
Protein (lb)	348	451	456	486
Calving interval (days)	438	413	471	431
Somatic Cell Count (000)	406	244	209	291
Income over feed costs (\$)	404	1,253	1,155	922

Table 9. Why Are Cows Leaving the Herd?

Reason	Number	Percent
Dairy	2,927	6.6
Died	9,710	21.8
Disease	2,485	5.6
Feet	2,054	4.6
Injury	5,562	12.5
Low production	3,603	8.1
Mastitis	5,414	12.2
Not reported	3,456	7.7
Reproduction	7,838	17.6
Udder	1,422	3.2

Table 10. HOA Breed Averages

	No. of Herds	Milk	Fat	Protein	IOFC	Freshening Interval	SSC Avg (000)
Ayrshire	10	15,665	581	497	1,006	433	315
Brown Swiss	29	17,206	673	581	1,196	456	396
Guernsey	9	13,855	597	469	950	479	420
Holstein	804	20,337	737	620	1,441	436	380
Jersey	45	14,845	685	535	1,262	416	350
Milking Shorthorn	9	13,838	478	430	923	441	289

Table 11. HOA District Averages — 2002

	Herds	Cows	Cows/ herd	Milk	Fat	Protein	Income \$	IOFC \$	Milk Price
N. Dakota	64	6,372	112	20,024	732	609	2,483	1,629	12.41
S. Dakota	168	21,301	127	19,586	737	602	2,445	1,567	12.41
Nebraska	223	28,499	128	20,534	765	638	2,464	1,428	11.98
Kansas	308	42,119	137	20,930	754	633	2,468	1,376	11.97
Arkansas	56	6,503	116	16,745	612	528	2,136	1,083	12.77
Oklahoma	94	11,967	127	18,787	652	580	2,288	1,469	12.40

Table 12. HOA Five-year Rolling Herd Average

	1998	1999	2000	2001	2002
Milk	18,526	19,035	19,717	19,191	20,086
Fat	671	691	722	712	783
Protein	595	620	622	596	615

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