2001

ANNUAL

SUMMARY

Utah State University Extension
and
Department of Animal, Dairy and Veterinary Sciences

Utah State University
Logan, Utah

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December 3, 2001

Following two years of unprecedented increases in milk production levels among Rocky Mountain DHIA herds, the level of production eased back slightly in 2001. The region wide average of 22,062 pounds of milk (actual) and 22,250 pounds of energy-corrected milk (ECM) in 2001 were between one and two percent below the record high levels recorded in 2000. At least, the dairymen of the Rocky Mountain region have done a better job in holding on to their recent gains that the stock market has been able to do.

The data presented in this Rocky Mountain DHIA Annual Summary for 2001 are from all herds that were on test for the full 2001 testing year (October 1, 2000 through September 30, 2001) and which were tested at least 10 times during the year. Again this year, Allen Young has provided selected management reports generated from Rocky Mountain DHIA records. The aim is to make this annual summary not only a record of 2001 dairy production in the Rocky Mountain DHIA region, but to provide information that will be useful to dairy management in the year to come.

I would like to express my appreciation to Dr. Allen Young, USU Extension Dairy Management Specialist; Brent Clark, Manager of Rocky Mountain DHIA; Russell Beckstead of DHI-Provo; and Nancy Daines, Staff Assistant in the ADVS Department at Utah State University for their contributions to the preparation of the 2001 Annual Summary.

Congratulations to all Rocky Mountain DHIA dairymen for their achievements in 2001 and best wishes for success in meeting the challenges and opportunities that lie ahead!

Sincerely,

Jeffrey L. Walters
Research Assistant Professor

ROCKY MOUNTAIN DAIRY HERD IMPROVEMENT ASSOCIATION
AFFILIATES FOR 2002

District	Trustee	Counties Represented
1.	Kent Buttars - Lewiston	North Cache
2.	Blaine Lindley - Wellsville	South Cache, Rich, WYOMING
3.	Carl Petersen - Tremonton	Box Elder
4.	Dale Wade - Ogden	Morgan, Weber, Davis
5.	Ron Anderson - Lindon	Juab, Salt Lake, Tooele, Utah
6.	David Thacker - Bluebell	Daggett, Duchesne, Summit, Uintah, Wasatch
7.	David Roberts - Beaver	Beaver, Iron, Millard, Washington, NEVADA
8.	Kent Sorensen - Mayfield	Emery, Piute, Sanpete, Sevier, Wayne
9.	Dan Daugherty - Charlo, MT	MONTANA
10.	Lon Tueller - Geneva, ID	IDAHO
2002 RMDHIA Officers		
President	Dale Wade	(801) 731-2121
Vice-Pres.	Ron Anderson	(801) 785-1643
Secretary	Carl Peterson	(435) 257-5759

EXPLANATION OF PRODUCTION TABLES

The following tables provide information on production levels by area, breeds, herd size, and production trends over the years.

Table 1 on page 7, lists the county and region averages for milk, 3.5% FCM, ECM, butterfat, and protein production on a cow-year basis.

3.5% Fat-Corrected-Milk (FCM) is computed as:

0.432 x Milk (lbs.) + 16.23 x Fat (lbs.).

Energy-Corrected-Milk (ECM) is computed as:

ECM = 0.327 x Milk (lbs.) + 12.95 x Fat (lbs.) + 7.20 x Protein (lbs.).

Table 2 also on page 7, provides a comparison of milk, 3.5% FCM, ECM, butterfat and protein production for herds of each breed. "Mixed breed" refers to herds where cows of one breed do not constitute 75 percent or more of the herd.

Table 3 on page 8 shows a breakdown of herds grouped by herd size and ranked by level of ECM. The top ten herds in each group are listed, as well as the numbers of herds in each category and their average production.

Table 4, on page 9, lists the 30 Rocky Mountain DHIA herds with lowest Somatic Cell Counts (SCC) in order. Multiply values in the table by 1000 to get actual average SCC scores.

Table 5 on page 9, lists the most improved herds in the Rocky Mountain DHIA region in terms of their percentage increase in Energy-Corrected-Milk (ECM) production in 2001 compared with 2000. These herds are listed by numeric herd code, NOT in order by magnitude of increase in ECM.

Table 6 on page 110 is a summary of the production levels for Utah for the past 60 years, while Table 7 on page 11 gives more detailed statistics for the past 10 years.

The explanation for abbreviations used in the headings of production tables is as follows: **TT** = type of test (official unless reported as **OS** = owner-sampler); **TXX** = times milked daily (2x unless noted with an **X** = 3x milking of 20% or more of cows in herd); **SCC** = somatic cell count/1000; **BR** = breed (B = Brown Swiss, H = Holstein, J = Jersey, M = Milking Shorthorn, X = Mixed breed herd).

Report prepared by:

Jeffrey L. Walters
Research Assistant Professor

SOURCE OF DATA FILES

The data files for this report were provided by DHI-Provo Computing Service. Their assistance is greatly appreciated. Suggestions for record improvement are always welcome. It is your program.

DHI-PROVO COMPUTING SERVICE help line: **1-800-532-2344**

2001 Annual Management Reports

Allen J. Young
Extension Dairy Management Specialist

Management reports, starting on page 13, have been added to give dairy producers some basis for comparing production parameters from their herd with those herds of similar production or herd size. The intent is to make your DHIA records more useful to you. A few general comments are in order so that you will know how these reports were derived and what to look for on some of the reports. The selection criteria for the herds that were included in the reports are given below. These criteria excluded about 75 herds out of 353 from consideration in the averages.

Criteria:

* Days on test had to be at least one year,
* Services per conception were equal to or greater than 1.25,
* Herd breed limited to either Holstein or Jersey,
* Number of cows in the herd had to be greater than or equal to 15,
* Affiliate code equals 87; this includes Utah, Montana, Idaho and Wyoming.

A few comments are in order regarding the results in some of the reports. Tables 8 to 31 are reports broken down by herd production for either Holstein or Jersey herds. Tables 32-41 are reports broken down by herd size, again for either Holstein or Jersey herds.

Table 7 is interesting from a historical perspective. Milk per cow leveled off after having risen substantially after several years of being stagnant. This is in spite of average days in milk getting longer; a function of increasing days in milk at first breeding. For several years we have been suggesting that heifers should calve for the first time at around 24 months of age. In the past 10 years, average age at calving has changed very little for Holsteins (average 27.4 months), but is lower (25.5 months) for Jerseys (also see Tables 28 and 29). We haven't made very much headway! Percent of cows with low SCC has stayed about the same over the last 10 years at 80%. This number should be better. These two areas suggest that opportunity exists to increase profits.

Tables 8, 14, 15, 16, 17 list the average % low somatic cell count (SCC) (0 - 4 linear score) and actual SCC. The thing to keep in mind is that you want the **actual SCC** to be as low as possible and the **average % low SCC** number to be higher if you want to have better herd udder health (i.e., less mastitis). My "rule-of-thumb" is 90% or greater in the average % low SCC category signifies a herd with excellent udder health and greater than 300,000 SCC is a problem herd. In general, the tables suggest that higher milk production per cow is associated with better udder health, especially in Jerseys.

Tables 12 and 13 are most important in evaluating production and management on a dairy. These tables list peak production by level of production. Peak production is important because for every pound of milk you get at peak, it translates into an extra 220 - 250 pounds of milk per cow for that lactation. If cows aren't peaking as high as they should or not peaking at all, then the nutrition and management of your herd

should be carefully checked.

Table 24 and 25 should be noted because the ultimate reproductive goal for a dairy producer is to get a cow pregnant. The values in these tables are computed from the calculated heat detection rate (based upon your voluntary waiting period) multiplied by the average conception rate (1/Services per conception). An average herd with a 50% heat detection rate and a 50% conception rate (Service per conception of 2.0) would give a 25% pregnancy rate (heats resulting in calf). IF A PRODUCER IS NOT ADHERING TO HIS/HER VOLUNTARY WAITING PERIOD, then this number will become skewed down due to the influence of the heat detection rate.

Tables 26 and 27 list average days dry, by production level. While these numbers are not out of line for what is considered normal, it should be noted that the dry period between 1st and 2nd lactation should be longer than for older animals. As you can see, just the opposite is shown here. This suggests an area which should be evaluated.

Herd size has been suggested as a factor for many management traits. We have therefore included several reports related to herd size for Holstein and Jersey herds. As herd size increased, milk production per cow for Holsteins increased up to herd size of 500+ cows. Days in Milk at 1st Breeding for Holstein herds decreased as herd size increased, but increased in Jersey herds. As herd size increased for Jersey herds, Services per Conception decreased. As Holstein herds increased in size, Services per conception increased and Calving Interval decreased. Days Open wasn't different. As herd size increased in Jersey herds, udder health deteriorated in 2nd and older cows as measured by SCC, but improved or 1st lactation cows as measured by % Low SCC. The other number of note is that only Holstein herds of 500+ and Jersey herds over 50 cows had an Age at First Calving at or below 25 months, suggesting a better job of heifer raising.

We hope these reports are interesting and informative. If you have any questions, would like to see more information, or have it expressed relative to some other parameter, please let us know.

Table 1. Average Production by Districts for All Rocky Mountain DHIA Herds

DISTRICT	NO. OF HERDS	COW YRS	MILK LBS	BUTTERFAT %	BUTTERFAT LBS	PROTEIN %	PROTEIN LBS	3.5% FCM LBS	ECM LBS
BEAVER-NV	9	2,378	21,513	3.50	752	3.12	672	21,504	21,612
BOX ELDER	18	2,870	21,421	3.61	764	3.10	662	21.654	21,421
CACHE	67	8,910	21,110	3.76	786	3.14	659	21.882	21,829
DUCHESNE	17	3,254	23,090	3.49	807	3.04	702	23,067	23,048
MILLARD	10	5,685	20,391	3.54	721	3.04	619	20,508	20,461
PIUTE-WAYNE	5	1,266	20,592	3.53	727	3.03	625	20,695	20,648
SALT LAKE-TOOELE	3	1,276	27,621	3.60	985	3.08	840	27,916	27,832
SANPETE	9	3,956	23,433	3.50	820	3.10	725	23,425	23,497
SEVIER-EMERY	8	2,508	23,665	3.46	815	3.02	712	23,453	23,419
SUMMIT	6	810	21,251	3.55	748	3.13	661	21,321	21,251
UTAH	17	3,912	23,831	3.54	838	3.05	724	23,892	23,855
WASATCH	4	479	20,372	3.42	688	3.16	642	19,971	20,194
WEBER-MORGAN	11	1,667	23,436	3.56	832	3.10	724	23,623	23,646
MONTANA	47	6,920	22,597	3.51	788	3.04	685	22,558	22,533
IDAHO-WYOMING	25	8,113	22,919	3.50	803	3.04	694	22,939	22,895
REGION AVERAGE	256	54,004	22,345	3.56	792	3.07	684	22,500	22,492

Table 2. Average Production by Breed for All Rocky Mountain DHIA Herds

BREED	NO. OF HERDS	COWS YRS	AVE. HERD SIZE	MILK LBS	BUTTERFAT %	BUTTERFAT LBS	PROTEIN %	PROTEIN LBS	3.5% FCM LBS	ECM LBS
HOLSTEIN	226	51,510	228	22,674	3.53	798	3.05	691	22,746	22,733
JERSEY	19	1,648	87	15,480	4.44	687	3.62	559	17,840	17,985
OTHER[A]	11	846	77	15,712	3.87	604	3.29	514	16,596	16,663
ALL	256	54,004	211	22,345	3.56	792	3.07	684	22,500	22,492

[A]Includes 4 Brown Swiss, 1 Milking Shorthorn, and 6 Mixed Breed herds.

Table 3. The Top Ten Herds for Energy-Corrected-Milk (ECM) Grouped by Herd Size

DISTRICT	TT	HERD NAME	COW YRS	TXX	POUNDS ECM	POUNDS MILK	BUTTERFAT LBS	BUTTERFAT %	PROTEIN LBS	PROTEIN %
FROM 10 TO 75 COWS										
BOX ELDER		MUNNS DAIRY	47		26,126	26,471	872	3.29	858	3.24
MONTANA		WILLIAM J TATARKA	66		25,691	25,350	919	3.63	764	3.01
WEBER-MORGAN		KIM SLATER	50		24,738	25,110	842	3.35	781	3.11
MONTANA		DAN DAUGHERTY	52		23,835	24,035	830	3.45	726	3.02
CACHE		EVAN L OLSEN	65		23,674	22,833	854	3.74	715	3.13
CACHE		BRIDGERLAND HOLSTEINS	48		22,964	21,820	837	3.84	693	3.18
IDAHO-WYOMING		LONTE HOLSTEINS	64		22,205	22,593	760	3.36	691	3.06
IDAHO-WYOMING		GLADE HYMAS	51		22,002	21,158	790	3.73	674	3.19
IDAHO-WYOMING		EBORN DAIRY	45		21,881	22,065	755	3.42	679	3.08
CACHE		DEAN O DAIRY	72		21,689	21,394	771	3.60	654	3.06
AVERAGE FOR 47 HERDS			54		18,969	18,281	677	3.74	587	3.23
FROM 76 TO 150 COWS										
IDAHO-WYOMING		ROCKING-F DAIRY	126		28,549	27,462	1,048	3.82	833	3.03
WEBER-MORGAN		PAPPYS FARM	141		28,010	27,683	993	3.59	847	3.06
BOX ELDER		SCOTT DAIR	104		25,845	25,279	951	3.76	731	2.89
MONTANA		DEERFIELD COLONY	117		25,147	25,445	869	3.42	774	3.04
WEBER-MORGAN		O SCOTT WAYMENT	148		25,144	24,791	907	3.66	735	2.96
BOX ELDER		E L PETERSON DAIRY	88		25,133	24,854	909	3.66	727	2.93
SUMMIT		LIL-WEBER HOLSTEINS	107		25,014	25,218	860	3.41	782	3.10
MILLARD		TONY STANWORTH	113		24,948	24,859	874	3.52	764	3.07
UTAH		SOLO DAIRY	146	X	24,925	24,836	870	3.50	769	3.10
CACHE		CALVIN MAUGHAN	148		24,731	24,452	887	3.63	729	2.98
AVERAGE FOR 92 HERDS			112		20,892	20,468	740	3.64	641	3.25
FROM 151 TO 300 COWS										
SALT LAKE-TOOELE		HENRY M DAY	209	X	28,702	28,668	1,026	3.58	839	2.93
UTAH		B RICHARD ORTON	210	X	28,443	29,100	969	3.33	886	3.04
MONTANA		MU JUICE DAIRY	179	X	27,957	29,713	926	3.12	868	2.92
MONTANA		DAVID LEWIS	164	X	27,302	28,083	926	3.30	851	3.03
CACHE		D & H FARM INC	179	X	26,922	26,429	974	3.69	787	2.98
DUCHESNE		DALE M RASMUSSEN	164		26,558	26,100	962	3.69	773	2.96
MONTANA		CEDAR K DAIRY	200		26,222	25,657	950	3.70	768	2.99
SANPETE		SANPITCH DAIRY	293		26,081	25,819	930	3.60	777	3.01
MILLARD		GARDNER DAIRY	189	X	25,643	25,667	895	3.49	786	3.06
SANPETE		TRYDALE FARMS	296	X	25,540	25,816	875	3.39	801	3.10
AVERAGE FOR 58 HERDS			209		22,398	22,117	790	3.59	679	3.07
OVER 300 COWS										
CACHE		KEN MUNK FARM	332	X	30,046	20,405	1,052	3.46	900	2.96
SALT LAKE-TOOELE		ELBERTA DAIRY	949	X	28,992	29,000	1,020	3.52	875	3.02
DUCHESNE		THACKER'S RIVERSIDE	334		28,848	27,781	1,058	3.81	842	3.03
SANPETE		YARDLEY DAIRY	434	X	28,569	29,018	978	3.37	891	3.07
UTAH		BYU DAIRY	620	X	27,831	28,230	967	3.43	844	2.99
SEVIER-EMERY		CEDAR RIDGE DAIRY	1,207	X	27,695	28,179	960	3.41	840	2.98
CACHE		TASK-MASTER HOLSTEINS	379	X	27,622	26,660	1,005	3.77	818	3.07
BOX ELDER		WILLARD DAIRY	525	X	27,178	28,000	928	3.31	834	2.98
IDAHO-WYOMING		SEAGULL BAY DAIRY	589	X	26,625	26,890	925	3.44	813	3.02
IDAHO-WYOMING		DAVE & DOUG RALLISON	512	X	26,427	26,430	928	3.51	801	3.03
AVERAGE FOR 47 HERDS			605		23,498	23,568	823	3.50	712	3.03

Table 4. Herds with Lowest Somatic Cell Counts for 2002

RANK	DISTRICT	BR	HERD NAME	NO. COWS	TT	SCC	POUNDS			
							ECM	MILK	FAT	PROT
1	CACHE	M	CANTAGREE DAIRY	40		72	13,850	13,578	482	440
1	WEBER-MORGAN	J	PAPPY'S JERSEY	11		80	21,219	17,702	829	652
3	MONTANA	H	DAVID LEWIS	164		84	27,302	28,083	926	851
4	WEBER-MORGAN	H	PAPPYS FARM	141		86	28,010	27,683	993	847
5	CACHE	H	D & H FARM INC	179		90	26,922	26,429	974	787
6	MONTANA	H	AMSTERDAM HOLSTEINS	110		94	23,587	23,716	815	733
7	MONTANA	H	SIMEMAN FLIKKEMA	105		98	19,447	19,514	667	615
8	DUCHESNE	J	TRIPLE R DAIRY	50		106	18,188	15,701	695	563
9	BEAVER-NEVADA	H	GILLINS DAIRY	448		110	25,483	25,707	875	798
10	MONTANA	H	MU JUICE DAIRY	179		112	27,957	29,713	926	868
10	SUMMIT	H	L & G PACE FARM	107		112	22,555	22,558	794	680
12	MONTANA	H	WILLIAM J TAKARKA	66		114	25,691	25,350	919	764
12	IDAHO-WYOMING	H	RILEY L MICKELSEN	74		114	20,317	19,861	706	650
14	MONTANA	H	SURPRISE CREEK COLONY	116		116	21,348	21,149	767	625
15	BOX ELDER	J	ANDSMITHASEN DAIRY	124		120	17,632	15,142	684	531
16	MONTANA	H	DELBERT KAMERMAN	132		122	22,679	22,080	799	710
17	MILLARD	H	TONY STANWORTH	113		126	24,948	24,859	874	764
17	UTAH	H	MARTY LARSON	64		126	19,486	19,103	701	578
19	CACHE	H	USU DAIRY HERD	171		128	24,615	24,202	891	717
19	DUCHESNE	H	DALE M RASMUSSEN	164		128	26,558	26,100	962	773
21	WEBER-MORGAN	H	LASUE HOLSTEINS	160		130	23,528	23,209	836	710
22	MONTANA	H	CEDAR K DAIRY	200		134	26,222	25,657	950	768
22	BEAVER-NEVADA	H	C & S DAIRY	173		134	22,762	21,797	837	666
22	CACHE	H	MAIR DAIRY FARM	78		134	21,925	21,118	790	662
25	SEVIER-EMERGY	H	IDEAL DAIRY	143		136	23,253	23,532	815	695

Table 5. Rocky Mountain DHIA Most Improved Herds for Pounds of Energy-Corrected-Milk in 2002 (listed by herd code)[a]

HERD CODE	DISTRICT	HERD NAME	ECM LBS	NO. COWS
81-07-1812	MONTANA	DEERFIELD COLONY	25,147	117
81-16-0255	MONTANA	KARL FLIKKEMA	21,160	126
81-16-0845	MONTANA	B3 DAIRY	22,150	252
81-16-9848	MONTANA	RICH BROUWER	21,744	102
82-29-0351	IDAHO-WY	HOWARD D NELSON	19,760	134
87-02-0032	BOX ELDER	ANDSMITHASEN DAIRY	17,632	124
87-02-0780	BOX ELDER	NORR FARMS	20,271	93
87-02-0791	BOX ELDER	E L PETERSEN DAIRY	25,133	88
87-03-0335	CACHE	SID & RICHARD HANSEN	18,486	193
87-03-0341	CACHE	HARRIS DAIRY LAND	24,524	277
87-03-0344	CACHE	HANSEN HOLSTEINS INC	24,455	135
87-03-0421	CACHE	D & H FARMS INC	26,922	179
87-03-0460	CACHE	KART LINDLEY	15,409	41
87-03-0579	CACHE	EUGENE OLSEN	15,409	112
87-07-0009	DUCHESNE	A + A DAIRY	25,127	290
87-07-0291	DUCHESNE	TRIPLE R DAIRY	18,188	50
87-07-0350	DUCHESNE	HARVEY'S DAIRY	21,447	51
87-07-0355	DUCHESNE	ROBERT HAMBLIN	18,803	84
87-07-0589	DUCHESNE	CLARK MCKEE	17,372	135
87-21-0305	SEVIER	NIELSON DAIRY	19,554	177
87-25-0635	UTAH	PRIORITY DAIRY	24,312	301
87-29-0591	WEBER	ROPELATO DAIRY	20,899	218

[a]Herds with ECM yield increase of 7% or more from 2001 to 2002

Table 6. Rocky Mountain DHIA Summary, 1942-2002[a]

YEAR	NO. ASSOC.	NO. HERDS	COW YRS	PER HERD	COW LB MILK	% FAT	LBS BUTTERFAT	LBS PROTEIN	LBS ECM
2002	10	256[d]	51,510	211	22,345	3.56	742	684	22,492
2001	10	248[d]	49,159	198	22,062	3.58	785	675	22,250
2000	10	285[d]	53,672	188	22,315	3.58	795	704	22,681
1999	10	318[d]	56,347	177	21,266	3.57	754	689	21,686
1998	9	320[d]	53,956	168	20,491	3.58	730	658	20,906
1997	9	267[c]	46,653	175	20,295	3.58	722	655	20,485
1996	9[b]	240	40,744	170	20,358	3.56	724	655	20,742
1995	17	250	38,074	152	20,268	3.54	716	655	20,608
1994	17	257	37,052	144	20,274	3.53	716	654	20,601
1993	17	250	35,195	141	19,761	3.57	705	642	20,212
1992	17	248	33,753	136	19,551	3.55	695	629	19,919
1991	17	249	34,579	139	19,048	3.59	684	616	19,518
1990	17	249	34,286	138	19,355	3.60	696	627	19,857
1989	16	246	32,666	133	18,961	3.65	692	616	19,597
1988	16	242	30,976	128	18,731	3.58	671	603	19,156
1987	16	244	30,641	126	18,487	3.59	664	586	18,863
1986	16	271	33,319	123	17,956	3.52	632	572	18,174
1985	17	307	35,003	114	17,156	3.49	598	547	17,293
1984	17	318	35,262	111	16,330	3.48	568	533	16,533
1983	17	352	39,913	113	16,600	3.39	563	548	16,665
1982	16	361	41,407	115	16,018	3.48	557	519	16,188
1981	16	330	37,598	114	15,768	3.46	546	512	15,913
1980	16	313	32,718	104	15,482	3.51	543	518	15,824
1979	15	293	29,066	99	15,450	3.45	533	510	15,627
1978	14	312	30,116	97	15,702	3.44	541	538	16,014
1977	14	312	28,153	90	15,264	3.57	545		
1976	14	312	29,924	96	14,479	3.62	524		
1975	15	291	26,706	92	13,649	3.71	506		
1974	16	339	29,100	86	13,269	3.65	484		
1973	16	350	27,762	79	12,955	3.69	478		
1972	16	397	27,110	68	113,259	3.63	481		
1962	18	409	16,236	40	12,037	3.71	447		
1952	16		7,920		9,380	3.90	365		
1942	9		5,036		7,729	4.40	341		

[a]Utah DHIA only before 1996
[b]Districts (DHIA structure reorganized between 1995 and 1996)
[c]Definition of herd eligibility changed in 1997
[d]Includes Montana herds

Table 7. Selected Statistics for Official Herds Processed for September in Each of the Last 10 Years

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Average pounds milk per cow (all cows)	52.7	55.6	52.8	55.1	54.2	56.7	59.1	58.9	58.4	60.2
Average pounds milk per cow (milking cows)	60.9	64.5	61.5	62.9	62.9	65.6	68.0	68.5	68.3	69.9
Percent butterfat	3.56	3.51	3.54	3.62	3.55	3.56	3.52	3.53	3.52	3.57
Percent protein	3.25	3.24	3.25	3.23	3.22	3.21	3.27	3.09	3.07	3.06
Average days in milk (stage of lactation)	188	189	193	194	198	204	205	207	214	213
Average previous days dry	60	60	61	63	65	63	61	61	62	63
Average days in milk at first breeding	84	83	87	87	89	91	93	95	99	94
Age at first calving (months)	26.8	27.0	26.7	26.3	26.3	26.0	26.3	26.0	25.8	25.5
Age at last calving (all cows)	46.1	46.2	45.3	44.9	45.9	45.6	45.2	44.8	45.4	45.9
Last calving interval months	13.5	13.4	13.7	13.7	13.8	13.9	13.9	14.1	14.2	14.4
Percent of cows with missing birth dates	1.9	1.0	0.8	1.1	1.4	1.6	1.9	3.1	3.5	5.8
Percent of cows without cow registration or eartag and breed	2.9	1.3	1.9	3.4	4.8	5.8	8.3	12.3	11.5	9.0
Percent of cows without sire registration or eartag and breed	5.0	3.3	6.5	6.5	6.9	9.0	15.9	17.0	19.3	21.3
Percent of cows leaving the herd	37	34	36	34	38	36	35	36	40	37
Percent low SCC (<283,000)	81	81	80	83	81	82	80	80	79	78
Average cow PTA for pounds of milk*	626	837	94	233	416	566	669	146	284	388
Average sire PTA for pounds of milk*	1,212	1,480	592	729	875	1,031	1,158	645	761	381
Average service sire PTA for pounds of milk*	2,065	2,233	1,320	1,521	1,660	1,773	1,768	1,242	1,333	1,402

*Base for calculation of PTA values changed between 1994 and 1995 and between 1999 and 2000.

Table 8. Selected Management Parameters, by Production, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Avg. % Low SCC (0-4 LS)	Avg. Days Dry	Avg. Days In Milk	Avg. % Days In Milk
14,999 & Less	5	236	13,905	59.0	59.8	238.8	87.5
15-15,999	7	910	15,302	75.3	85.3	232.6	84.8
16-16,999	5	598	16,542	70.8	73.6	212.2	84.8
17-17,999	16	3,945	17,581	74.7	60.4	207.6	87.0
18-18,999	13	1,831	18,400	76.3	66.3	205.5	86.7
19-19,999	23	3,459	19,585	81.2	64.0	200.8	86.4
20-20,999	20	2,960	20,538	83.5	61.9	213.0	88.1
21-21,999	33	7,527	21,529	81.4	62.7	209.6	87.7
22-22,999	33	7,781	22,529	82.5	61.2	216.9	87.4
23-23,999	18	5,018	23,493	86.4	63.1	205.3	87.9
24-24,999	15	3,579	24,530	83.4	59.9	208.9	88.6
25-25,999	17	4,375	25,598	82.9	64.9	207.5	87.2
26-26,999	9	4,505	26,496	83.7	61.1	204.9	87.9
27,000 +	17	7,056	28,501	81.1	62.6	222.1	89.1
TOTAL	231	53,780	21,835	80.8	63.4	211.3	87.4

Table 9. Selected Management Parameters, by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Avg. % Low SCC (0-4 LS)	Avg. Days Dry	Avg. Days In Milk	Avg. % Days In Milk
13,999 & Less	6	587	13,008	71.0	68.8	198.7	82.8
14,000-15,999	4	265	14,777	83.5	69.3	201.8	86.3
16,000 +	8	1,088	17,389	81.3	68.1	189.5	87.4
TOTAL	18	1,940	15,348	78.3	68.6	195.3	85.6

Table 10. Selected Management Parameters, by Production, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Days First Breed	Serv. Per Conc.	Days Open	Calving Interval
14,999 & Less	5	236	13,905	116.4	1.60	166	15.00
15-15,999	7	910	15,302	101.6	1.85	107	16.04
16-16,999	5	598	16,542	116.4	1.83	178	14.22
17-17,999	16	3,945	17,581	102.8	1.81	167	14.15
18-18,999	13	1,831	18,400	116.1	1.98	174	14.58
19-19,999	23	3,459	19,585	93.9	2.12	151	14.25
20-20,999	20	2,960	20,538	93.9	2.18	161	14.38
21-21,999	33	7,527	21,529	99.9	2.07	163	14.06
22-22,999	33	7,781	22,529	98.2	2.18	167	14.50
23-23,999	18	5,018	23,493	92.7	2.19	153	14.16
24-24,999	15	3,579	24,530	97.0	2.28	160	14.34
25-25,999	17	4,375	25,598	94.8	2.10	156	14.16
26-26,999	9	4,505	26,496	84.0	2.46	154	14.01
27,000 +	17	7,056	28,501	104.8	2.36	180	14.97
TOTAL	231	53,780	21,835	99.0	2.12	161	14.39

Table 11. Selected Management Parameters, by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Days First Breed	Serv. Per Conc.	Days Open	Calving Interval
13,999 & Less	6	587	13,008	89.7	1.95	137	13.83
14,000-15,999	4	265	14,777	101.5	1.73	169	13.10
16,000 +	8	1,088	17,389	80.0	2.04	145	13.97
TOTAL	18	1,940	15,348	88.0	1.94	148	13.73

Table 12. Average Peak Production in First 90 Days (NS224), by Production, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
14,999 & Less	5	236	13,905	59.4	69.7	76.9	70.0
15-15,999	7	910	15,302	61.0	75.5	78.0	72.6
16-16,999	5	598	16,542	68.0	85.2	87.2	80.9
17-17,999	16	3,945	17,581	65.6	82.9	86.8	80.5
18-18,999	13	1,831	18,400	66.7	84.4	88.2	81.5
19-19,999	23	3,459	19,585	67.2	89.3	96.6	85.9
20-20,999	20	2,960	20,538	72.7	93.2	98.9	90.3
21-21,999	33	7,527	21,529	76.1	96.0	100.2	93.1
22-22,999	33	7,781	22,529	80.0	100.8	105.2	97.8
23-23,999	18	5,018	23,493	79.5	100.7	105.5	97.3
24-24,999	15	3,579	24,530	81.1	105.2	110.6	102.4
25-25,999	17	4,375	25,598	86.9	110.3	115.9	108.0
26-26,999	9	4,505	26,496	84.2	113.5	120.0	110.2
27,000 +	17	7,056	28,501	93.2	121.1	128.3	117.2
TOTAL	231	53,780	21,835	76.2	97.3	102.4	94.4

Table 13. Average Peak Production in First 90 Days (NS224), by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
13,999 & Less	6	587	13,008	51.0	58.6	64.2	59.9
14,000-15,999	4	265	14,777	56.7	57.4	72.3	63.5
16,000 +	8	1,088	17,389	59.5	75.1	77.9	71.9
TOTAL	18	1,940	15,348	56.0	65.7	72.1	66.0

Table 14. Average Somatic Cell Score by (x1000) (NS208), by Production, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
14,999 & Less	5	236	13,905	310.4	582.4	875.2	622.8
15-15,999	7	910	15,302	187.1	268.3	461.7	324.6
16-16,999	5	598	16,542	196.8	228.8	461.2	329.6
17-17,999	16	3,945	17,581	177.1	252.3	564.8	378.4
18-18,999	13	1,831	18,400	173.7	274.2	378.2	286.8
19-19,999	23	3,459	19,585	137.0	245.9	335.3	251.9
20-20,999	20	2,960	20,538	131.4	222.7	380.0	248.7
21-21,999	33	7,527	21,529	167.6	220.8	389.9	276.3
22-22,999	33	7,781	22,529	151.2	203.2	400.1	269.2
23-23,999	18	5,018	23,493	166.7	217.6	331.8	237.6
24-24,999	15	3,579	24,530	127.1	179.2	369.5	233.3
25-25,999	17	4,375	25,598	146.1	213.2	309.5	228.0
26-26,999	9	4,505	26,496	151.6	241.1	351.1	250.4
27,000 +	17	7,056	28,501	142.6	207.2	447.6	262.5
TOTAL	231	53,780	21,835	157.6	231.8	401.7	276.9

Table 15. Average Somatic Cell Score (x1000) (NS208), by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
13,999 & Less	6	587	13,008	217.0	190.0	655.7	416.3
14,000-15,999	4	265	14,777	286.0	97.0	285.5	286.0
16,000 +	8	1,088	17,389	214.0	227.5	333.5	298.3
TOTAL	18	1,940	15,348	231.0	186.0	430.2	334.9

Table 16. Average % Low SCC (0-4 LS) (NS204), by Production, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
14,999 & Less	5	236	13,905	76.0	38.0	42.0	50.2
15-15,999	7	910	15,302	84.9	80.0	63.7	75.6
16-16,999	5	598	16,542	89.2	76.6	63.2	75.4
17-17,999	16	3,945	17,581	86.3	75.8	64.0	73.3
18-18,999	13	1,831	18,400	86.1	76.4	65.5	74.6
19-19,999	23	3,459	19,585	90.0	82.2	72.8	80.7
20-20,999	20	2,960	20,538	90.8	82.5	74.0	82.0
21-21,999	33	7,527	21,529	87.9	82.0	70.2	79.3
22-22,999	33	7,781	22,529	89.5	83.5	71.7	80.8
23-23,999	18	5,018	23,493	89.3	87.1	76.2	84.2
24-24,999	15	3,579	24,530	88.8	84.3	72.5	81.5
25-25,999	17	4,375	25,598	88.6	84.1	73.9	82.1
26-26,999	9	4,505	26,496	89.6	82.4	74.8	82.2
27,000 +	17	7,056	28,501	89.2	82.5	70.2	81.0
TOTAL	231	53,780	21,835	88.5	81.2	70.4	79.3

Table 17. Average % Low SCC (0-4 LS) (NS204), by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
13,999 & Less	6	587	13,006	86.8	78.8	61.3	72.3
14,000-15,999	4	265	14,777	88.8	90.8	81.0	84.5
16,000 +	8	1,088	17,389	82.5	68.9	72.1	76.0
TOTAL	18	1,940	15,348	85.3	77.1	70.5	76.7

Table 18. Average Days Open (NS419), by Production, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
14,999 & Less	5	236	13,905	138	170	206	166
15-15,999	7	910	15,302	152	95	140	107
16-16,999	5	598	16,542	137	157	129	178
17-17,999	16	3,945	17,581	161	154	167	167
18-18,999	13	1,831	18,400	157	172	176	174
19-19,999	23	3,459	19,585	148	140	164	151
20-20,999	20	2,960	20,538	158	154	156	161
21-21,999	33	7,527	21,529	155	153	165	163
22-22,999	33	7,781	22,529	160	162	164	167
23-23,999	18	5,018	23,493	154	147	155	153
24-24,999	15	3,579	24,530	158	157	166	160
25-25,999	17	4,375	25,598	156	150	159	156
26-26,999	9	4,505	26,496	162	149	155	154
27,000 +	17	7,056	28,501	168	177	180	180
TOTAL	231	53,780	21,835	156	154	163	161

Table 19. Average Days Open (NS419), by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
13,999 & Less	6	587	13,008	142	136	133	137
14,000-15,999	4	265	14,777	121	177	137	169
16,000 +	8	1,088	17,389	148	135	147	145
TOTAL	18	1,940	15,348	140	145	140	148

Table 20. Average Percent First Service Conception (NS418), by Production, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
14,999 & Less	5	236	13,905	57.8	63.6	66.8	60.2
15-15,999	7	910	15,302	60.4	55.1	62.1	58.1
16-16,999	5	598	16,542	54.6	65.4	51.8	55.8
17-17,999	16	3,945	17,581	66.3	56.6	57.5	57.9
18-18,999	13	1,831	18,400	50.1	50.4	51.8	52.2
19-19,999	23	3,459	19,585	52.0	53.3	43.2	48.6
20-20,999	20	2,960	20,538	43.1	52.4	42.9	45.8
21-21,999	33	7,527	21,529	48.9	46.1	45.5	47.0
22-22,999	33	7,781	22,529	47.0	42.1	46.8	44.7
23-23,999	18	5,018	23,493	49.1	39.6	44.3	44.4
24-24,999	15	3,579	24,530	45.7	39.9	37.3	41.1
25-25,999	17	4,375	25,598	49.9	48.8	42.8	46.9
26-26,999	9	4,505	26,496	36.8	36.9	40.4	38.2
27,000 +	17	7,056	28,501	40.0	35.8	40.8	39.4
TOTAL	231	53,780	21,835	49.1	47.0	46.2	47.1

Table 21. Average Percent First Service Conception (NS418), by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
13,999 & Less	6	587	13,008	51.5	41.2	57.0	52.5
14,000-15,999	4	265	14,777	57.5	38.0	68.0	55.3
16,000 +	8	1,088	17,389	41.9	49.8	51.6	45.1
TOTAL	18	1,940	15,348	48.6	44.3	57.1	49.8

Table 22. Average Services Per Conception (NS416), by Production, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
14,999 & Less	5	236	13,905	1.58	1.72	1.48	1.60
15-15,999	7	910	15,302	1.83	1.85	1.81	1.85
16-16,999	5	598	16,542	1.69	1.58	2.03	1.83
17-17,999	16	3,945	17,581	1.61	1.85	1.84	1.81
18-18,999	13	1,831	18,400	2.03	2.11	1.98	1.98
19-19,999	23	3,459	19,585	1.97	1.84	2.38	2.12
20-20,999	20	2,960	20,538	2.26	1.96	2.25	2.18
21-21,999	33	7,527	21,529	2.04	2.08	2.09	2.07
22-22,999	33	7,781	22,529	2.14	2.15	2.18	2.18
23-23,999	18	5,018	23,493	2.11	2.35	2.12	2.19
24-24,999	15	3,579	24,530	2.26	2.26	2.33	2.28
25-25,999	17	4,375	25,598	2.01	2.07	2.20	2.10
26-26,999	9	4,505	26.496	2.60	2.48	2.37	2.46
27,000 +	17	7,056	28,501	2.33	2.52	2.31	2.36
TOTAL	231	53,780	21,835	2.07	2.10	2.15	2.12

Table 23. Average Services per Conception (NS416), by Production, for Jersey Herds.

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
13,999 & Less	6	587	13,008	1.87	2.22	1.87	1.95
14,000-15,999	4	265	14,777	1.77	1.83	1.57	1.73
16,000 +	8	1,088	17,389	2.24	1.85	1.90	2.04
TOTAL	18	1,940	15,348	2.01	1.97	1.82	1.94

Table 24. Average Percent of Heats Resulting in a Calf (NS319), by Production, for Holstein Herds*

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
14,999 & Less	5	236	13,905	23.2	26.6	54.6	29.8
15-15,999	7	910	15,302	16.9	25.9	19.1	18.7
16-16,999	5	598	16,542	19.6	25.4	16.8	18.4
17-17,999	16	3,945	17,581	36.1	44.1	25.6	26.4
18-18,999	13	1,831	18,400	23.7	30.3	22.2	24.4
19-19,999	23	3,459	19,585	37.2	28.3	24.1	24.2
20-20,999	20	2,960	20,538	21.8	26.3	20.0	20.7
21-21,999	33	7,527	21,529	23.3	23.7	22.3	21.6
22-22,999	33	7,781	22,529	21.4	22.6	22.1	20.7
23-23,999	18	5,018	23,493	25.1	21.7	23.5	22.2
24-24,999	15	3,579	24,530	22.0	20.5	19.5	20.0
25-25,999	17	4,375	25,598	22.8	24.9	21.5	21.5
26-26,999	9	4,505	26,496	22.1	24.0	27.2	24.2
27,000 +	17	7,056	28,501	16.2	16.5	17.9	16.9
TOTAL	231	53,780	21.835	24.4	25.4	22.7	21.9

*This number is derived by multiplying heat detection rate by the conception rate. If a herd had a 50% heat detection rate and a 50% conception rate (Serv./Conception = 2.0), this would give a 25% of heats resulting in

Table 25. Percent of Heats Resulting in a Calf (NS319), by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
13,999 & Less	6	587	13,008	29.7	22.2	32.2	26.2
14,000-15,999	4	265	14,777	23.3	16.8	62.0	22.0
16,000 +	8	1,088	17,389	25.9	30.0	30.6	25.9
TOTAL	18	1,940	15,348	26.6	24.4	38.1	25.1

Table 26. Average Days Dry (NS122), by Production, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
14,999 & Less	5	236	13,905	.0	48.4	66.8	59.8
15-15,999	7	910	15,302	.0	75.9	92.0	85.3
16-16,999	5	598	16,542	.0	66.6	77.4	73.6
17-17,999	15	1,680	17,577	.0	50.3	63.9	60.4
18-18,999	13	1,831	18,400	.0	57.5	70.8	66.3
19-19,999	22	3,378	19,576	.0	59.4	65.9	63.7
20-20,999	19	2,635	20,564	.0	55.5	64.9	61.2
21-21,999	30	6,910	21,512	.0	56.6	67.8	63.2
22-22,999	33	7,781	22,529	.0	56.9	64.0	61.2
23-23,999	18	5,018	23,493	.0	58.9	66.1	63.1
24-24,999	15	3,579	24,530	.0	56.6	62.4	59.9
25-25,999	17	4,375	25,598	.0	59.2	68.7	64.9
26-26,999	7	1,850	26,396	.0	57.7	64.9	62.3
27,000 +	16	6,991	28,246	.0	59.8	67.8	63.9
TOTAL	222	47,772	21,780	.0	57.8	67.1	63.5

Table 27. Average Days Dry (NS122), by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
13,999 & Less	6	587	13,008	.0	61.5	73.8	68.8
14,000-15,999	4	265	14,777	.0	54.3	74.0	69.3
16,000 +	8	1,088	17,389	.0	60.1	74.0	68.1
TOTAL	18	1,940	15,348	.0	59.3	73.9	68.6

Table 28. Average Age at Calving (NS621), by Production, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
14,999 & Less	5	233	13,905	25.9	40.2	73.9	52.2
15-15,999	7	849	15,302	28.6	46.4	77.8	52.5
16-16,999	5	586	16,542	26.9	43.6	68.8	47.6
17-17,999	16	3,856	17,581	27.9	42.4	70.4	52.0
18-18,999	13	1,742	18,400	27.4	42.2	71.4	50.1
19-19,999	23	3,310	19,585	27.9	42.0	71.2	48.1
20-20,999	20	2,862	20,538	26.9	41.2	69.3	47.3
21-21,999	33	7,307	21,529	26.8	40.9	68.5	46.9
22-22,999	33	7,524	22,529	26.7	41.3	68.7	46.9
23-23,999	18	4,787	23,493	27.5	41.6	67.0	45.7
24-24,999	15	3,424	24,530	26.6	41.1	69.5	46.5
25-25,999	17	4,245	25,598	25.9	40.2	65.6	44.5
26-26,999	9	4,286	26,496	25.0	39.6	67.5	44.3
27,000 +	17	6,816	28,501	25.9	41.0	68.4	44.0
TOTAL	231	51,827	21,835	26.9	41.4	69.3	47.3

Table 29. Average Age at Calving (NS621), by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
13,999 & Less	6	566	13,008	25.6	39.5	68.6	50.1
14,000-15,999	4	261	14,777	26.1	40.0	62.8	42.4
16,000 +	8	1,055	17,389	23.6	38.2	71.4	48.6
TOTAL	18	1,882	15,348	24.8	39.0	68.5	47.7

Table 30. Average Service Sire PTA (NS424), by Production, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
14,999 & Less	5	233	13,905	592	493	706	630
15-15,999	7	849	15,302	596	710	901	926
16-16,999	5	586	16,542	618	533	608	598
17-17,999	16	3,856	17,581	656	704	835	757
18-18,999	13	1,742	18,400	980	839	1,048	1,035
19-19,999	23	3,310	19,585	776	789	775	800
20-20,999	20	2,862	20,538	865	945	891	897
21-21,999	33	7,307	21,529	829	866	845	903
22-22,999	33	7,524	22,529	1,038	1,053	1,027	1,052
23-23,999	18	4,787	23,493	1,282	1,274	1,220	1,260
24-24,999	15	3,424	24,530	1,266	1,265	1,244	1,257
25-25,999	17	4,245	25,598	1,176	1,098	1,037	1,112
26-26,999	9	4,286	26,496	1,138	1,107	1,109	1,146
27,000 +	17	6,816	28,501	1,185	1,130	1,238	1,203
TOTAL	231	51,827	21,835	964	963	981	997

Table 31. Average Service Sire PTA (NS424), by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
13,999 & Less	6	566	13,008	999	1,093	823	913
14,000-15,999	4	261	14,777	654	930	1,059	841
16,000 +	8	1,055	17,389	738	765	717	744
TOTAL	18	1,882	15,348	806	911	828	822

Table 32. Average 30-day Change in FCM After 90 DIM, by Production, For Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
14,999 & Less	8	511	14,212	1.1	3.0	3.6	2.4
15-15,999	5	613	15,356	1.2	2.1	3.7	2.7
16-16,999	6	636	16,452	1.6	3.8	4.0	3.1
17-17,999	15	3,925	17,601	1.4	3.6	4.2	3.2
18-18,999	15	2,138	18,392	1.6	3.5	4.4	3.3
19-19,999	22	3,506	19,584	1.1	4.5	4.5	3.2
20-20,999	22	2,601	20,498	1.2	3.6	4.3	3.1
21-21,999	37	8,799	21,541	1.3	3.8	4.6	3.1
22-22,999	29	7,438	22,582	1.3	4.0	4.6	3.2
23-23,999	21	4,861	23,441	1.3	3.7	4.3	2.9
24-24,999	14	3,529	24,572	1.5	4.5	5.1	3.6
25-25,999	15	3,827	25,506	1.7	4.7	5.8	4.0
26-26,999	12	5,362	26,448	1.0	4.5	5.2	3.4
27,000 +	16	6,693	28,501	1.7	4.6	5.3	3.6
TOTAL	237	54,439	21,751	1.4	4.0	4.6	3.2

Table 33. Average 30-day Change in FCM After 90 DIM, by Production, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
13,999 & Less	8	1,648	12,767	1.8	3.4	3.0	3.0
14,000-15,999	5	478	14,714	1.6	2.3	3.8	2.6
16,000 +	7	927	17,363	.5	1.3	2.8	1.6
TOTAL	20	3,053	14,862	1.3	2.4	3.1	2.4

Table 34. Selected Management Parameters, by Herd Size, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Avg. % Low SCC (0-4 LS)	Avg. Days Dry	Avg. Days In Milk	Avg. % Days In Milk
< 75	43	2,406	19,726	77.2	63.5	219.4	88.8
75-150	79	8,874	21,081	81.5	62.8	207.6	87.2
150-300	60	12,991	22,425	82.1	64.5	210.2	87.0
300-500	29	11,762	24,400	79.5	63.7	210.4	87.5
500 +	20	17,747	23,859	83.3	61.8	212.9	86.9
TOTAL	231	53,780	21,835	80.8	63.4	211.3	87.4

Table 35. Selected Management Parameters, by Herd Size, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Avg. % Low SCC (0-4 LS)	Avg. Days Dry	Avg. Days In Milk	Avg. % Days In Milk
< 50	4	149	14,569	84.0	70.8	195.3	85.5
50-100	5	351	15,671	76.8	71.0	184.0	87.9
100 +	9	1,440	15,516	76.7	66.3	201.6	84.4
TOTAL	18	1,940	15,348	78.3	68.6	195.3	85.6

Table 36. Selected Management Parameters, by Herd Size, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Days First Breed	Serv. Per Conc.	Days Open	Calving Interval
< 75	43	2,406	19,726	107.5	2.00	162	14.65
75-150	79	8,874	21,081	97.3	2.03	153	14.23
150-300	60	12,991	22,425	99.7	2.12	165	14.42
300-500	29	11,762	24,400	94.6	2.38	165	14.40
500 +	20	17,747	23,859	92.2	2.35	174	14.34
TOTAL	231	53,780	21,835	99.0	2.12	161	14.39

Table 37. Selected Management Parameters, by Herd Size, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Days First Breed	Serv. Per Conc.	Days Open	Calving Interval
< 50	4	149	14,569	89.8	2.02	156	12.92
50-100	5	351	15,671	77.8	1.98	130	14.06
100 +	9	1,440	15,516	92.9	1.89	154	13.91
TOTAL	18	1,940	15,348	88.0	1.94	148	13.73

Table 38. Average Somatic Cell Score (x 1000) (NS208), by Herd Size, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
< 75	43	2,406	19,726	175.4	260.8	434.0	302.3
75-150	79	8,874	21,081	149.5	235.9	397.3	281.3
150-300	60	12,991	22,425	161.3	208.1	375.0	259.0
300-500	29	11,762	24,400	151.2	253.3	444.2	289.1
500 +	20	17,747	23,859	149.7	193.8	368.1	240.2
TOTAL	231	53,780	21,835	157.6	231.8	401.7	276.9

Table 39. Average Somatic Cell Score (x 1000) (NS208), by Herd Size, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
< 50	4	149	14,569	254.0	69.0	397.5	277.5
50-100	5	351	15,671	208.4	212.4	397.6	338.4
100 +	9	1,440	15,516	233.3	223.3	462.9	358.4
TOTAL	18	1,940	15,348	231.0	186.0	430.2	334.9

Table 40. Average % Low SCC (0-4 LS) (NS204), by Herd Size, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
< 75	43	2,406	19,726	85.7	76.1	66.7	75.7
75-150	79	8,874	21,081	89.5	81.2	70.9	79.3
150-300	60	12,991	22,425	88.5	84.5	72.8	81.3
300-500	29	11,762	24,400	88.7	79.5	66.6	78.3
500 +	20	17,747	23,859	89.5	84.5	74.9	82.9
TOTAL	231	53,780	21,835	88.5	81.2	70.4	79.3

Table 41. Average % Low SCC (0-4 LS) (NS204), by Herd Size, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
< 50	4	149	14,569	92.3	93.8	77.5	85.3
50-100	5	351	15,671	89.4	76.8	71.2	76.0
100 +	9	1,440	15,516	80.0	69.8	67.0	73.2
TOTAL	18	1,940	15,348	85.3	77.1	70.5	76.7

Table 42. Average Age at Calving (NS621), by Herd Size, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
< 75	43	2,338	19,726	27.6	42.3	71.8	48.5
75-150	79	8,598	21,081	27.0	41.3	69.4	48.4
150-300	60	12,523	22,425	27.3	42.1	68.8	47.0
300-500	29	11,390	24,400	26.2	40.9	68.5	45.8
500 +	20	16,978	23,859	24.4	39.0	66.0	43.0
TOTAL	231	51,827	21,835	26.9	41.4	69.3	47.3

Table 43. Average Age at Calving (NS621), by Herd Size, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
< 50	4	144	14,569	25.7	39.0	60.5	40.8
50-100	5	346	15,671	24.0	39.4	73.9	51.4
100 +	9	1,392	15,516	24.9	38.8	69.1	48.8
TOTAL	18	1,882	15,348	24.8	39.0	68.5	47.7

Table 44. Average 30-day Change in FCM After 90 DIM, by Herd Size, for Holstein Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
< 75	44	2,463	19,498	1.4	3.3	3.8	2.9
75-150	83	9,425	21,045	1.3	4.0	4.7	3.3
150-300	60	12,911	22,356	1.5	4.0	4.8	3.3
300-500	30	12,130	24,465	1.4	4.6	5.0	3.5
500 +	20	17,510	23,752	1.3	4.4	4.9	3.2
TOTAL	237	54,439	21,751	1.4	4.0	4.6	3.2

Table 45. Average 30-day Change in FCM After 90 DIM, by Herd Size, for Jersey Herds

Category	No. Herds	No. Cows	Avg. Milk/Cow	Lactation Groups			
				1	2	3+	ALL
< 60	5	210	14,896	1.8	2.7	4.0	2.8
60-110	5	429	14,779	.8	2.9	2.9	2.3
110 +	10	2,414	14,887	1.3	2.0	2.8	2.3
TOTAL	20	3,053	14,862	1.3	2.4	3.1	2.4

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