

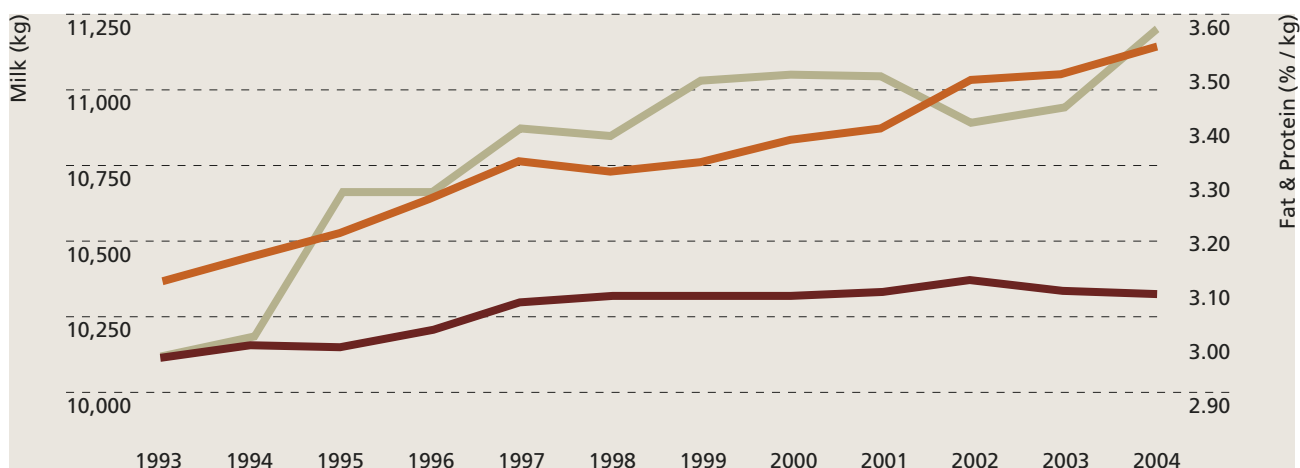


Table 3.1 & Fig. 3.1

Production averages of Israeli-Holstein cows, by calving year

305-day adjusted lactations (1-5)

Calving year	No. of cows	Milk, kg	Fat, %	Protein, %
1993	80,311	10,131	3.11	2.97
1994	80,525	10,195	3.15	2.99
1995	83,696	10,665	3.20	2.99
1996	81,477	10,665	3.26	3.02
1997	81,507	10,887	3.33	3.07
1998	82,004	10,850	3.31	3.08
1999	81,742	11,029	3.33	3.08
2000	81,622	11,048	3.37	3.08
2001	80,787	11,031	3.39	3.09
2002	86,554	10,890	3.48	3.11
2003	81,602	10,945	3.49	3.09
2004	84,694	11,200	3.54	3.08



- Milk
- Fat (%)
- Protein (%)

In 1991, the milk payment formula was changed in order to promote an increase in milk fat and protein content. Since then, steady progress has been achieved: fat and protein concentration

rose 0.53% and 0.18%, respectively. Until the year 2000 there was a constant increment of average annual milk yield per cow, then a slight decline and in the last two years a renewed increase.



Table 3.2

Production averages in 2004, by parity number

	1st lactation cows	2nd lactation cows	Adult cows	Total
Complete lactations				
No.	24,018	16,490	22,967	63,475
Milk yield, kg	10,817	12,203	12,695	11,855
ECM* yield, kg	11,018	12,365	12,572	11,930
Fat yield, kg	392.5	438.8	448.7	424.8
Fat, %	3.63	3.60	3.53	3.58
Protein yield, kg	342.8	385	389.1	370.5
Protein, %	3.17	3.15	3.06	3.12

Adjusted 305-d lactations				
No.	23,240	15,933	22,224	61,397
305-d adjusted ECM, kg	10,952	11,185	11,068	11,054
Days in milk	360	352	350	354
Milk yield, kg/day in milk	30.0	34.7	36.2	33.4
Calving interval	424	417	417	420
ECM yield, kg/cow in herd-day	26.0	29.6	30.2	28.4
Dry period, days	64	65	66	65
Days open	149	141	141	144

Calvings				
Total No. of calvings	33,572	24,976	40,638	99,186
Calves born	33,900	26,122	43,302	103,324
Age at calving, months	25	39	66	45
Normal calvings	29,764	23,614	38,501	91,879
Normal calvings, %	88.7	94.5	94.7	92.6
Premature calvings	609	498	849	1,956
Premature calvings, %	1.8	2.0	2.1	2.0
Abortions, %	9.2	9.1	8.0	8.7
Stillborn calves, %	8.5	6.3	7.1	7.4

* ECM = Economic Corrected Milk, according to the formula for milk payment:
 $0.1 * \text{kg Milk} + 7.67 * \text{kg Fat} + 20.21 * \text{kg Protein}$





Table 3.3

20 cooperative herds with highest average annual milk yield per cow (3x milkings) in 2004

	Herd	ECM kg	Milk kg	Fat %	Protein %	F+P kg	SCC x1000	No. of cows in herd
1	Carmiya	12,813	12,501	3.64	3.21	854	207	287
2	Sa'ad	12,633	12,422	3.63	3.17	843	212	285
3	Habonim	12,528	12,098	3.73	3.22	840	236	236
4	Yavne	12,520	12,404	3.60	3.14	835	112	363
5	Nachal Oz	12,519	12,361	3.63	3.15	837	195	269
6	Nir Yitzhak	12,373	12,420	3.58	3.08	827	200	254
7	P.R.Ch.	12,348	12,300	3.63	3.10	827	195	435
8	Ein Carmel	12,319	12,272	3.59	3.11	822	377	254
9	Carmel Ma'on	12,296	12,191	3.59	3.14	820	214	419
10	Ma'ale HaKhamisha	12,205	12,120	3.59	3.13	814	197	246
11	Ma'ale Gilboa	12,172	12,236	3.41	3.14	800	259	242
12	Gan Shmuel	12,147	11,881	3.72	3.16	816	254	288
13	Nirim	12,101	11,890	3.60	3.18	805	211	247
14	Tze'elim	12,087	11,847	3.71	3.15	812	202	245
15	Be'eri	12,068	11,878	3.67	3.14	809	210	272
16	Alumim	12,058	11,981	3.71	3.08	813	178	284
17	Shomriya	12,027	11,974	3.68	3.09	809	202	209
18	Alonei HaBashan	12,015	11,948	3.54	3.14	798	273	236
19	Hof HaSharon	11,943	11,856	3.62	3.12	798	146	901
20	Beit Yatir	11,912	11,973	3.56	3.08	794	223	224





Table 3.4

20 Family herds with highest average annual milk yield per cow (2x + 3x milkings) in 2004



Village	Herd	ECM kg	Milk kg	Fat %	Protein %	F+P kg	SCC x1000	No. of cows in herd
Givat Yoav	Sofer Farm	12,454	12,311	3.54	3.17	826	130	42
Givat Yoav	Eliezer Farm	12,439	12,069	3.76	3.19	837	101	45
Givat Yoav	Tzafrir Farm	12,246	11,961	3.72	3.17	823	136	46
Givat Yoav	Ben Yosef Farm	12,227	11,743	3.82	3.22	825	137	40
Kefar Yehezkel	Vered Farm	12,175	12,130	3.73	3.06	823	160	62
Givat Yoav	Golani Farm	12,173	11,987	3.70	3.13	818	216	52
Sde Ya'akov	Baranawski Farm	12,139	12,046	3.57	3.14	808	116	105
Amatz	Sahar Farm	12,094	11,921	3.62	3.16	807	258	70
Neot Golan	N.G. Society	12,042	12,001	3.66	3.09	809	284	102
Beit Lechem HaGelilit	Dominsky Farm	11,942	12,037	3.63	3.04	802	222	55

Kefar Ha'roeh	Peleg Farm	11,824	11,783	3.54	3.13	785	127	85
Givat Yoav	Aloni Farm	11,821	11,616	3.71	3.14	795	177	61
Be'er Tuvia	Botzlin Farm	11,798	11,904	3.53	3.08	785	147	92
Kefar Yehezkel	Gilboa Farm	11,769	11,575	3.72	3.13	792	202	115
Be'erotaim	Weiss Farm	11,756	11,569	3.55	3.19	779	187	75
Givat Yoav	Gat Farm	11,641	11,492	3.63	3.15	778	135	43
Be'er Tuvia	Tzur Farm	11,640	11,793	3.44	3.09	769	221	271
Givat Yoav	Aharonov Farm	11,627	11,419	3.72	3.14	782	130	49
Kefar Yehoshua	Halevi Farm	11,588	11,052	3.89	3.23	785	269	59
Neot Golan	Cohen Farm	11,531	11,508	3.59	3.11	770	151	45



Table 3.5

20 cows with highest adjusted ECM yield in 2004

Herd	Cow No.	Sire	Lact. No.	ECM kg	Milk kg	Fat %	Protein %
Ran Society	5006	Scorer	4	17,031	16,095	3.92	3.26
Carmiya	5071	Scorer	4	16,661	16,128	3.55	3.27
HaBonim	5006	Scorer	4	16,649	15,312	4.10	3.33
Tzevaiym Farm	851	Tapi	4	16,568	16,490	3.26	3.24
Ramat HaKovesh	5168	Scorer	5	16,378	17,030	3.52	2.93
Guivat Haiym Ichud	1631	Royal	3	16,344	15,059	4.22	3.27
HaBonim	4256	Scorer	5	16,313	15,966	3.50	3.23
Carmiya	5724	Moed	2	16,286	15,115	3.84	3.38
Ramat HaShofet	3384	Sinbad	6	16,200	16,749	3.30	3.04
Yavne	1470	Boiler	4	16,176	16,658	3.46	3.00

Pelech	228	Goopy	3	16,169	18,149	3.24	2.69
Pelech	424	Sedek	1	16,133	17,848	3.25	2.74
Hof HaSharon	25073	Romi	2	16,092	15,764	3.95	3.06
Yavne	1376	Shenef	4	15,958	14,383	3.92	3.51
Hof HaSharon	19190	Royal	4	15,938	14,121	4.55	3.36
Kefar Giladi	6131	Extreme	1	15,926	15,660	3.97	3.03
Tze'elim	4398	Ravmag	4	15,923	14,872	4.21	3.21
Ben Yosef Farm	93	Ronen	2	15,851	14,974	3.96	3.24
Carmiya	5329	Goopy	4	15,837	15,706	3.76	3.07
Nirim	4005	Goopy	2	15,837	15,033	3.88	3.25



Herd	Cow No.	Sire	Lact. No.	Days in milk	Milk kg	Average milk yield kg/day	Fat %	Protein %	Culling date
Tze'elim	2798	Duran	12	4,971	173,428	34.9	3.51	2.88	
Ma'ale Gilboa	6492	Lasso	11	3,964	165,419	41.7	3.22	2.88	
Tze'elim	3523	Pitzpon	7	3,441	150,341	43.7	2.99	2.89	
Reshafim	3128	Boteach	10	3,925	148,778	37.9	3.45	2.99	
Palmachim	2970	Sharash	11	3,864	145,425	37.6	3.14	3.22	27/10/04
Givat HaSheloshah	3284	Boteach	9	3,607	144,629	40.1	3.43	2.73	
Mishmar HaNegev	3415	Sharash	11	3,628	144,576	39.9	3.32	3.08	05/09/04
HaKhotrim	4909	Lime	10	3,697	144,092	39.0	3.01	3.03	09/01/05
Mashavei Sadeh	6356	Galgol	9	3,201	142,607	44.6	2.75	2.66	
Afikim	5634	Shato	11	3,452	141,452	41.0	2.90	2.87	05/01/05

Hof HaSharon	15975	Boteach	12	3,435	140,488	40.9	3.59	2.88	
Ramat HaShofet	2900	Geshem	12	3,428	139,867	40.8	3.03	2.89	12/03/04
Tuval	201	Poshet	11	3,543	138,798	39.2	2.71	2.85	
Ein HaKhoresh	9532	Boteach	11	3,692	138,468	37.5	3.24	3.16	15/11/04
Fodor Farm	73	Mefi	9	3,527	136,647	38.7	3.31	3.10	
Nachal Oz	3010	Poshet	13	3,737	135,210	36.2	3.86	2.98	20/04/04
Givat HaSheloshah	3405	Ginat	9	3,141	134,875	42.9	3.61	2.95	
Maoz Haiym	4616	Ginat	10	3,123	134,794	43.2	3.33	2.83	
Nordiya	2888	Boteach	10	3,084	134,743	43.7	3.03	2.99	
A.A.P. Society	288	Mefi	7	3,310	134,399	40.6	2.76	2.72	13/01/05

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Table 3.6

20 cows with highest lifetime yield, producing in 2004

