

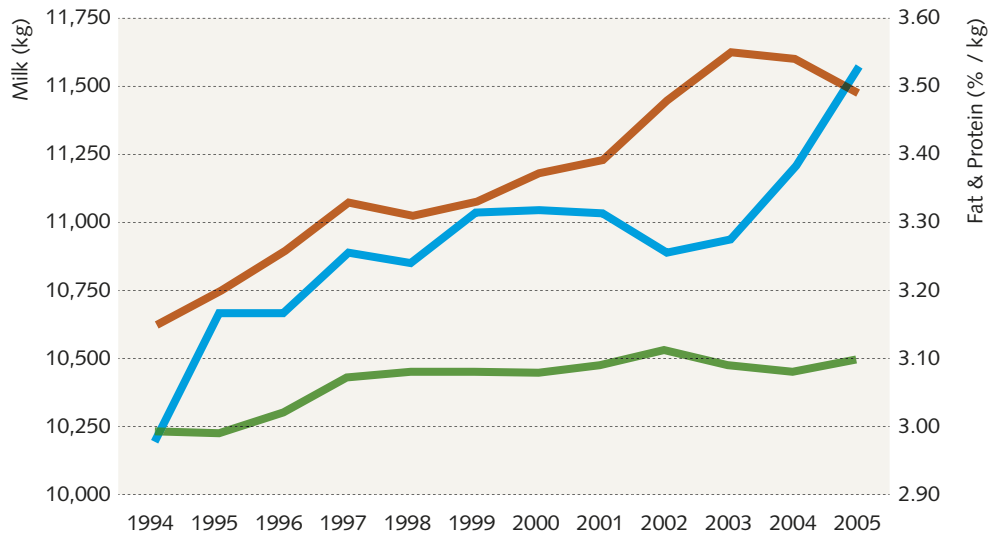
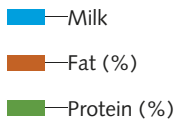


Table 3.1 & Fig. 3.1

**Production averages of Israeli-Holstein cows, by calving year**

305-day adjusted lactations (1-5)

Calving year	No. of cows	Milk, kg	Fat, %	Protein, %
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	84,696	10,938	3.55	3.09
2004	84,694	11,200	3.54	3.08
2005	83,456	11,565	3.49	3.10



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 0.62% and

0.20%, 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 2005, by parity  
number**

	1st lactation cows	2nd lactation cows	Adult cows	Total
<b>Complete lactations</b>				
No.	24,589	17460	22,924	64,973
Milk yield, kg	11,024	12646	12,980	12,150
ECM* yield, kg	11,139	12727	12,835	12,165
Fat yield, kg	403.4	457.4	464.2	439.4
Fat, %	3.66	3.62	3.58	3.62
Protein yield, kg	349.7	400.2	400.2	381.1
Protein, %	3.17	3.16	3.08	3.14
<b>Adjusted 305-d lactations</b>				
No.	23377	16733	21831	61941
305-d adjusted ECM, kg	11132	11448	11310	11280
Days in milk	359	353	350	354
Milk yield, kg/day in milk	30.7	35.8	37.1	34.3
Feed days	424	417	416	419
ECM yield, kg/cow in herd-day	26.3	30.5	30.9	29
Dry period, days	63	63	65	64
Days open	147	141	140	143
<b>Calvings</b>				
Total No. of calvings	31,963	24,867	40,589	97,419
Calves born	32,236	25,880	43,146	101,262
Age at calving, months	25	39	66	45
Normal calvings	28,326	23,558	38,318	90,202
Normal calvings, %	88.6	94.7	94.4	92.6
Premature calvings	610	470	861	1,941
Premature calvings, %	1.9	1.9	2.1	2
Abortions, %	9.2	9.4	8.3	8.9
Stillborn calves, %	8.7	5.8	6.9	7.2

\* 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 2005**

No.	Herd	ECM kg	Milk kg	Fat %	Protein %	F+P kg	SCC x1000	No. of cows in herd
1	Habonim	13,511	13,263	3.68	3.17	908	190	222
2	Sa'ad	13,431	12,891	3.69	3.29	899	216	277
3	Carmiya	13,271	13,010	3.64	3.18	886	170	279
4	Hof HaSharon	13,029	13,008	3.58	3.11	869	139	813
5	Alumim	12,971	12,853	3.67	3.12	872	153	273
6	Nachal Oz	12,906	12,646	3.57	3.20	856	149	273
7	Yavne	12,889	12,583	3.68	3.20	864	105	355
8	Nir Yitzhak	12,856	12,578	3.56	3.22	852	236	265
9	Nitzanim	12,843	12,757	3.49	3.17	848	187	249
10	Shadma (Dorot)	12,691	12,642	3.58	3.12	846	264	361
11	Kefar Gil'adi	12,672	12,947	3.36	3.08	833	148	258
12	Refet Ma'ale	12,613	12,547	3.69	3.11	851	177	471
13	Ma'ale Gilboa	12,611	12,997	3.31	3.06	826	251	239
14	Carmel Ma'on	12,586	12,262	3.69	3.21	845	193	416
15	Ma'ale HaKhamisha	12,447	12,324	3.67	3.13	837	144	247
16	Eyal	12,447	12,306	3.61	3.15	830	216	286
17	Gan Shmuel	12,411	12,232	3.64	3.15	830	235	266
18	Beit Yatir	12,405	12,166	3.64	3.17	828	269	244
19	Givat Hayim I.	12,394	12,121	3.73	3.19	837	129	316
20	Nirim	12,388	12,115	3.66	3.19	829	221	251





Table 3.4

**20 Family herds  
with highest average  
annual milk yield  
per cow (2x + 3x  
milking) in 2005**

No.	Village	Herd	ECM kg	Milk kg	Fat %	Protein %	F+P kg	SCC x1000	No. of cows in herd
1	Givat Yoav	Sofer Farm*	12,754	12,382	3.70	3.22	857	167	41
2	Givat Yoav	Tzafrir Farm*	12,518	12,402	3.69	3.12	844	138	43
3	Givat Yoav	Ben Yosef Farm	12,472	12,101	3.82	3.23	852	165	39
4	Givat Yoav	Eliezer Farm*	12,454	12,002	3.81	3.26	848	98	42
5	Kefar Vitkin	Boltiansky Farm*	12,335	12,646	3.59	2.97	829	152	101
6	Kefar Yehezkel	Vered Farm*	12,329	12,392	3.60	3.07	825	174	63
7	Sde Ya'akov	Baranawski Farm*	12,314	11,970	3.68	3.22	825	171	124
8	Givat Yoav	Aharonov Farm	12,245	12,114	3.65	3.13	821	117	46
9	Be'er Tuvia	Golan Farm*	12,238	12,118	3.58	3.15	815	126	119
10	Shfeyia Ag. School	Shfeyia Ag. School*	12,217	11,864	3.77	3.22	828	220	79
11	Kefar Vitkin	Degani-Ilan Farm*	12,215	12,288	3.73	3.05	832	126	93
12	Tzipori	Shmueli Bros. Fram*	12,202	12,106	3.66	3.12	819	124	123
13	Kefar Yehezkel	Gafni Farm*	12,157	12,226	3.52	3.10	808	110	59
14	Be'er Tuvia	Yehuda Farm	12,136	11,943	3.55	3.19	804	90	44
15	Givat Yoav	A.A.P. Farm*	12,130	11,971	3.65	3.14	812	143	87
16	Beit Chelkyia	Duvdevani Farm*	12,099	12,029	3.53	3.15	803	206	140
17	Beit Shearim	Marmor Farm*	12,065	12,057	3.62	3.09	808	113	53
18	Kefar Ha'roeh	Peleg Farm*	12,037	11,782	3.63	3.19	803	115	82
19	Be'erotayim	Weiss Farm	12,024	11,814	3.54	3.21	796	260	69
20	Kefar Hasidim	Charag Farm*	12,024	12,172	3.42	3.10	793	120	99

\* x3 milkings/day



**Table 3.5**

**20 cows with highest adjusted ECM yield in 2005**

No.	Herd	Cow No.	Sire	Lact. No.	Milk kg	Fat %	Protein %	ECM kg
1	Shmueli Bros. Farm	667	Boiler	3	18,655	3.13	3.06	17,870
2	Sofer Farm	703	Teva	5	17,367	4.75	3.18	17,837
3	Gan Shmuel	1936	Saba	4	16,332	4.08	3.29	17,077
4	HaBonim	5341	Sidon	3	16,286	3.77	3.27	16,936
5	Gan Shmuel	2189	Manof	2	15,646	4.04	3.40	16,690
6	Refet HaNegev	4471	Mush	3	16,762	3.41	3.10	16,569
7	Alumim	1845	Scorer	5	17,213	3.80	2.88	16,553
8	Alonei HaBashan	1783	Boiler	3	15,978	3.74	3.24	16,534
9	Carmel-Ma'on	2874	Gabon	1	16,704	3.51	3.07	16,529
10	HaBonim	5394	Moach	2	16,382	3.02	3.33	16,460
11	Carmel-Ma'on	2258	Poretz	4	15,940	3.50	3.29	16,454
12	Sa'ar Farm	513	Scorer	4	16,689	3.39	3.09	16,432
13	Gan Shmuel	2325	Akash	2	15,905	3.73	3.23	16,419
14	Carmiya	5510	Siam	4	15,615	3.85	3.30	16,329
15	Yad Chail	6012	Gabon	2	17,003	3.21	3.04	16,314
16	Shadma (Dorot)	7737	Lom	3	18,111	3.01	2.82	16,305
17	P.R.Ch Farm	3331	Scorer	4	16,935	3.48	2.95	16,300
18	Refet Netofa	5370	Mush	2	16,915	3.20	3.06	16,295
19	Alonei Aba	3977	Avsha	2	17,170	3.32	2.93	16,265
20	Hof HaSharon	17636	Tzuf	3	15,871	3.64	3.19	16,227





No.	Herd	Cow No.	Sire	Lact. No.	Days in milk	Milk kg	Average milk yield kg/day	Fat %	Protein %	Culling date
1	Ma'ale Gilboa	6492	Lasso	12	4,276	177,147	41.4	3.23	2.88	
2	Tze'elim	2798	Duran	12	5,005	173,761	34.7	3.51	2.88	12/04/05
3	Givat HaShelosha	3284	Boteach	9	3,938	153,416	39.0	3.42	2.73	
4	Hof HaSharon	15975	Boteach	13	3,646	149,365	41.0	3.65	2.87	05/12/05
5	Reshafim	3128	Boteach	10	3,933	149,021	37.9	3.45	2.99	04/03/05
6	Givat HaShelosha	3405	Ginat	9	3,472	146,894	42.3	3.58	2.94	
7	Maoz Haiym	4616	Ginat	11	3,389	146,541	43.2	3.32	2.82	
8	Refet Tefen	201	Poshet	11	3,726	145,999	39.2	2.71	2.85	06/09/05
9	HaKhotrim	4909	Lime	10	3,697	144,092	39.0	3.01	3.03	09/01/05
10	Tlalei Sadeh	16356	Galgat	10	3,284	143,929	43.8	2.76	2.66	17/05/05
11	Ein Harod I.	1201	Amzar	10	3,399	143,404	42.2	3.44	2.83	
12	O.To.To. Halav	659	Boteach	9	3,547	141,585	39.9	3.43	3.17	06/02/06
13	Afikim	5634	Shato	11	3,452	141,452	41.0	2.90	2.87	05/01/05
14	Fodor Farm	73	Mefi	9	3,648	139,854	38.3	3.31	3.10	23/08/05
15	Nordiya	2888	Boteach	11	3,221	139,165	43.2	3.03	2.99	28/09/05
16	Ma'ale Gilboa	6817	Boteach	8	3,377	138,832	41.1	3.30	3.17	
17	Refet Gal-Yam	4149	Mefi	10	3,234	138,350	42.8	3.00	2.88	13/07/05
18	Neveh Eitan	3671	Boteach	8	3,920	137,409	35.1	3.25	2.95	
19	Refet Arava Halav	3090	Pitzpon	11	3,667	136,768	37.3	3.07	2.90	
20	Alumim	1299	Tamim	9	3,120	135,835	43.5	3.43	3.01	

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Table 3.6

**20 cows with highest lifetime yield, producing in 2005**

