

FACTORS USED IN ADJUSTING RECORDS

The factors used in adjusting actual lactation records to the "Standard Milking Period" basis are as follows:

1. Factors for Adjusting Records to a Two Milkings Per Day Basis for All Breeds. Worked out by H. W. Norton, Jr., Superintendent of Advanced Registry, Holstein-Friesian Association, from a study of 19,000 Holstein Semi-Official records.
 - Multiply records made under 3 milkings per day for more than 90 days by .80.
 - Multiply records made under 4 milkings per day for more than 90 days by .66.

2. Factors for Adjusting Complete Lactation Records For All Breeds to a Standard Milking Period of 305 Days. Based on a study of 600 Holstein complete lactation records obtained from daily milk weights, by G. E. Dickerson, Departments of Genetics and Dairy Records, University of Wisconsin.

Length of Lactation—days	Range in Class—days	Conversion Factor	Length of Lactation—days	Range in Class—days	Conversion Factor
245	240-249	1.19	395	390-399	.81
255	250-259	1.16	405	400-409	.79
265	260-269	1.12	415	410-419	.77
275	270-279	1.09	425	420-429	.76
285	280-289	1.06	435	430-439	.74
295	290-299	1.03	445	440-449	.73
305	300-309	1.00	455	450-459	.71
315	310-319	.97	465	460-469	.70
325	320-329	.95	475	470-479	.69
335	330-339	.93	485	480-489	.67
345	340-349	.90	495	490-499	.66
355	350-359	.88	505	500-509	.65
365	360-369	.86	515	510-519	.64
375	370-379	.84	525	520-529	.62
385	380-389	.82	535	530-539	.62
			545	540-549	.61

For complete and normal lactation records shorter than 240 days, the 240-249 day factor is used, because practically never is a cow bred back soon enough to prevent a lactation at least this long.

For complete lactation periods longer than 550 days (usually due to breeding trouble or delayed breeding), the production during the first nine months (275 days) is used as the equivalent of a complete normal lactation in which the cow carries a calf for seven months and is dry 305 days after calving.

3. Factors for Adjusting Records For All Breeds to a Mature Cow Basis. Based on a study of 4058 D.H.I.A. records, by J. F. Kendrick, Bureau of Dairy Industry, U.S.D.A.

Age at			Age at			Age at					
Freshening	Yr.	Mo.	Factor	Freshening	Yr.	Mo.	Factor	Freshening	Yr.	Mo.	Factor
2	0		1.29	3	5		1.11	4	10		1.03
2	1		1.28	3	6		1.10	4	11		1.02
2	2		1.26	3	7		1.10	5	0		1.02
2	3		1.25	3	8		1.09	5	1		1.02
2	4		1.24	3	9		1.08	5	2		1.02
2	5		1.22	3	10		1.08	5	3		1.01
2	6		1.21	3	11		1.07	5	4		1.01
2	7		1.20	4	0		1.06	5	5		1.01
2	8		1.19	4	1		1.06	5	6		1.01
2	9		1.18	4	2		1.05	5	7		1.01
2	10		1.17	4	3		1.05	5	8		1.01
2	11		1.16	4	4		1.05	5	9		1.00
3	0		1.15	4	5		1.04	5	10		1.00
3	1		1.14	4	6		1.04	5	11		1.00
3	2		1.14	4	7		1.03	6 to 10	Yr.		1.00
3	3		1.13	4	8		1.03	11 to 12	Yr.		1.02
3	4		1.12	4	9		1.03	12	Yr.	up	1.05

4. Factors for Adjusting Incomplete Records to a 305 Day Complete Lactation Basis. Prepared by G. E. Dickerson, Departments of Genetics and Dairy Records, University of Wisconsin, from a study of butterfat lactation curves taken from daily milk weights and weekly butterfat tests for lactations of different lengths on two milkings per day.

Incomplete Lactation Length in Weeks or Days	FACTORS				Incomplete Lactation Length in Weeks or Days	FACTORS			
	Expected Less than 280 days	Lactation 280-335 days	Length 336 days or more			Expected Less than 280 days	Lactation 280-335 days	Length 336 days or more	
4	28	7.39	7.39	7.39	25	175	1.47	1.46	1.46
5	35	5.98	5.98	5.98	26	182	1.42	1.42	1.41
6	42	5.04	5.04	5.04	27	189	1.38	1.38	1.37
7	49	4.36	4.36	4.36	28	196	1.35	1.34	1.33
8	56	3.86	3.86	3.86	29	203	1.32	1.30	1.29
9	63	3.47	3.47	3.47	30	210	1.29	1.27	1.26
10	70	3.16	3.16	3.16	31	217	1.26	1.24	1.23
11	77	2.90	2.90	2.90	32	224	1.23	1.21	1.20
12	84	2.69	2.69	2.69	33	231	1.21	1.18	1.17
13	91	2.51	2.51	2.51	34	238	1.18	1.16	1.14
14	98	2.35	2.35	2.35	35	245	1.16	1.14	1.12
15	105	2.22	2.22	2.22	36	252	1.15	1.12	1.10
16	112	2.10	2.10	2.10	37	259	1.13	1.10	1.08
17	119	2.00	2.00	2.00	38	266	1.12	1.08	1.06
18	126	1.90	1.90	1.90	39	273	1.11	1.06	1.04
19	133	1.82	1.82	1.82	40	280	1.10	1.04	1.02
20	140	1.75	1.75	1.75	41	287		1.03	1.00
21	147	1.68	1.68	1.68	42	294		1.02	.99
22	154	1.62	1.62	1.61	43	301		1.01	.98
23	161	1.56	1.56	1.56	44	308			.96
24	168	1.51	1.51	1.50	45	315			.95
					46	322			.94

Lactations in which a cow aborts *after* carrying calf longer than 150 days are terminated at the abortion and treated as incomplete records. When the abortion occurs *before* the calf has been carried 150 days, the record is continued until the cow is dry, and is treated as a complete lactation.

Example: The record of a cow freshening at two years, 5 months of age, and milked twice daily for 340 days to produce 350 pounds of butterfat, would be corrected as follows: No correction for number of milkings per day. To correct to a mature basis the factor is 1.22; $1.22 \times 350 = 427$. To correct to a 305 day milking period the factor is .90; $.90 \times 427 = 384$ pounds of fat on a mature, 305 day, 2x basis. The milk is corrected in the same manner.