



United States Department Of Agriculture
Agricultural Marketing Service Dairy Programs

FEDERAL MILK ORDER No. 1

Northeast Marketing Area

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December 16, 2009

To: Handlers/Interested Parties

From: Erik Rasmussen
Market Administrator

RE: Concentrated Milk Product Conversion Factors

Factors used to convert concentrated milk products to equivalent pounds have been updated in all federal orders to reflect the current composition of farm milk nationally. The factors used to convert nonfat dry milk (NFDM) to milk equivalent pounds are being reduced to recognize the higher nonfat solids content of farm milk currently as compared to the farm milk composition when the factors were established following a national study in 1965.

Effective for the month of January 2010, the conversion of NFDM powder to equivalent pounds will be as follows:

NFDM fluid equivalent factor = 10.54 (formerly 11.0)
Class IV fluid equivalent factor = 9.89 (formerly 10.36)
Class I volumetric increase = 0.65 (formerly 0.64)
NFDM displacement factor = 13.20 (formerly 13.4375)

The conversion chart used by handlers to convert finished product skim condensed milk to equivalent, in lieu of conversion based on specific components in the source ingredient, has also been updated for the current farm milk composition.

Those handlers condensing milk are expected to continue converting finished product skim condensed milk to equivalent pounds based on the actual components in the source of supply into the condenser. Those handlers purchasing finished product skim condensed milk for which the input composition is not known are expected to use the attached conversion chart that converts the finished product skim condensed milk to equivalent milk pounds based on the total solids of the concentrate.

If you have questions, please contact John Marcucci at our Alexandria, VA office at 703-549-7000 (ext. 4613), or Steve Quadros at our Boston, MA office at 617-737-7199 (ext. 3541).

CONCENTRATED SKIM MILK WEIGHT CONVERSION TABLE

<u>% Total Solids in the Mixture</u>	<u>Butterfat Test</u>	<u>Weight Per Gallon</u>	<u>Product Skim Eq. Factor</u>	<u>Class IV Ft. Skim Eq. Factor</u>
Over 19.5, but not over 20.5	0.11	9.03	2.190	1.234
Over 20.5, but not over 21.5	0.11	9.06	2.299	1.348
Over 21.5, but not over 22.5	0.12	9.10	2.408	1.461
Over 22.5, but not over 23.5	0.13	9.14	2.518	1.575
Over 23.5, but not over 24.5	0.13	9.18	2.627	1.688
Over 24.5, but not over 25.5	0.14	9.22	2.737	1.802
Over 25.5, but not over 26.5	0.14	9.26	2.846	1.915
Over 26.5, but not over 27.5	0.15	9.30	2.956	2.029
Over 27.5, but not over 28.5	0.15	9.34	3.065	2.142
Over 28.5, but not over 29.5	0.16	9.38	3.175	2.255
Over 29.5, but not over 30.5	0.16	9.42	3.284	2.369
Over 30.5, but not over 31.5	0.17	9.46	3.394	2.482
Over 31.5, but not over 32.5	0.18	9.50	3.503	2.596
Over 32.5, but not over 33.5	0.18	9.54	3.613	2.709
Over 33.5, but not over 34.5	0.19	9.58	3.722	2.823
Over 34.5, but not over 35.5	0.19	9.62	3.832	2.936
Over 35.5, but not over 36.5	0.20	9.67	3.941	3.049
Over 36.5, but not over 37.5	0.20	9.71	4.051	3.163
Over 37.5, but not over 38.5	0.21	9.75	4.160	3.276
Over 38.5, but not over 39.5	0.21	9.80	4.270	3.390
Over 39.5, but not over 40.5	0.22	9.84	4.379	3.503
Over 40.5, but not over 41.5	0.22	9.89	4.488	3.617
Over 41.5, but not over 42.5	0.23	9.93	4.598	3.730
Over 42.5, but not over 43.5	0.24	9.98	4.707	3.844
Over 43.5, but not over 44.5	0.24	10.02	4.817	3.957
Over 44.5, but not over 45.5	0.25	10.07	4.926	4.070
Over 45.5, but not over 46.5	0.25	10.12	5.036	4.184
Over 46.5, but not over 47.5	0.26	10.16	5.145	4.297
Over 47.5, but not over 48.5	0.26	10.21	5.255	4.411
Over 48.5, but not over 49.5	0.27	10.26	5.364	4.524
Over 49.5, but not over 50.5	0.27	10.31	5.474	4.638
Over 50.5, but not over 51.5	0.28	10.36	5.583	4.751
Over 51.5, but not over 52.5	0.28	10.41	5.693	4.865
Over 52.5, but not over 53.5	0.29	10.46	5.802	4.978
Over 53.5, but not over 54.5	0.30	10.51	5.912	5.091
Over 54.5, but not over 55.5	0.30	10.56	6.021	5.205
Over 55.5, but not over 56.5	0.31	10.61	6.131	5.318
Over 56.5, but not over 57.5	0.31	10.66	6.240	5.432
Over 57.5, but not over 58.5	0.32	10.72	6.350	5.545
Over 58.5, but not over 59.5	0.32	10.77	6.459	5.659
Over 59.5, but not over 60.5	0.33	10.82	6.569	5.772