



H. Paul Kyburz, Market Administrator
4570 W. 77th Street, Suite 210
Minneapolis, MN 55435-5037
Telephone: (952) 831-5292
Fax: (952) 831-8249

UPPER MIDWEST MARKETING AREA
Federal Order No. 30

Agricultural Marketing Service
Dairy Programs

Home Page:
www.fmma30.com

2150 Western Court, Suite 100
P.O. Box 4469
Lisle, IL 60532
Telephone: (630) 810-9999
Fax: (630) 810-1788

2701 International Lane, Suite 102
Madison, WI 53704
Telephone: (608) 242-1822
Fax: (608) 242-1846

December 18, 2009

TO: Handlers, Cooperatives and Interested Parties

SUBJECT: 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, compared to the farm milk composition when the factors were established following a national study in 1965.

Effective January 1, 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)

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. Handlers purchasing condensed milk for which the input composition is not known may use the attached conversion chart that converts the condensed milk to equivalent milk pounds based on the total solids of the concentrate.

If you have any questions, please call Glen Rieck in our Minneapolis office at (952) 277-2339 or Jim Biss in our Chicago office at (630) 437-5021.

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Attachment



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CONCENTRATED SKIM MILK WEIGHT CONVERSION TABLE

| <u>% Total Solids</u> | <u>Butterfat Test</u> | <u>Weight per Gallon</u> | <u>Skim Equivalent Factor</u> | <u>Class IV Skim Equivalent Factor</u> |
|-----------------------|-----------------------|--------------------------|-------------------------------|--|
| 19.50 – 20.49 | 0.11 | 9.03 | 2.190 | 1.234 |
| 20.50 – 21.49 | 0.11 | 9.06 | 2.299 | 1.348 |
| 21.50 – 22.49 | 0.12 | 9.10 | 2.408 | 1.461 |
| 22.50 – 23.49 | 0.13 | 9.14 | 2.518 | 1.575 |
| 23.50 – 24.49 | 0.13 | 9.18 | 2.627 | 1.688 |
| 24.50 – 25.49 | 0.14 | 9.22 | 2.737 | 1.802 |
| 25.50 – 26.49 | 0.14 | 9.26 | 2.846 | 1.915 |
| 26.50 – 27.49 | 0.15 | 9.30 | 2.956 | 2.029 |
| 27.50 – 28.49 | 0.15 | 9.34 | 3.065 | 2.142 |
| 28.50 – 29.49 | 0.16 | 9.38 | 3.175 | 2.255 |
| 29.50 – 30.49 | 0.16 | 9.42 | 3.284 | 2.369 |
| 30.50 – 31.49 | 0.17 | 9.46 | 3.394 | 2.482 |
| 31.50 – 32.49 | 0.18 | 9.50 | 3.503 | 2.596 |
| 32.50 – 33.49 | 0.18 | 9.54 | 3.613 | 2.709 |
| 33.50 – 34.49 | 0.19 | 9.58 | 3.722 | 2.823 |
| 34.50 – 35.49 | 0.19 | 9.62 | 3.832 | 2.936 |
| 35.50 – 36.49 | 0.20 | 9.67 | 3.941 | 3.049 |
| 36.50 – 37.49 | 0.20 | 9.71 | 4.051 | 3.163 |
| 37.50 – 38.49 | 0.21 | 9.75 | 4.160 | 3.276 |
| 38.50 – 39.49 | 0.21 | 9.80 | 4.270 | 3.390 |
| 39.50 – 40.49 | 0.22 | 9.84 | 4.379 | 3.503 |
| 40.50 – 41.49 | 0.22 | 9.89 | 4.488 | 3.617 |
| 41.50 – 42.49 | 0.23 | 9.93 | 4.598 | 3.730 |
| 42.50 – 43.49 | 0.24 | 9.98 | 4.707 | 3.844 |
| 43.50 – 44.49 | 0.24 | 10.02 | 4.817 | 3.957 |
| 44.50 – 45.49 | 0.25 | 10.07 | 4.926 | 4.070 |
| 45.50 – 46.49 | 0.25 | 10.12 | 5.036 | 4.184 |
| 46.50 – 47.49 | 0.26 | 10.16 | 5.145 | 4.297 |
| 47.50 – 48.49 | 0.26 | 10.21 | 5.255 | 4.411 |
| 48.50 – 49.49 | 0.27 | 10.26 | 5.364 | 4.524 |
| 49.50 – 50.49 | 0.27 | 10.31 | 5.474 | 4.638 |
| 50.50 – 51.49 | 0.28 | 10.36 | 5.583 | 4.751 |
| 51.50 – 52.49 | 0.28 | 10.41 | 5.693 | 4.865 |
| 52.50 – 53.49 | 0.29 | 10.46 | 5.802 | 4.978 |
| 53.50 – 54.49 | 0.30 | 10.51 | 5.912 | 5.091 |
| 54.50 – 55.49 | 0.30 | 10.56 | 6.021 | 5.205 |
| 55.50 – 56.49 | 0.31 | 10.61 | 6.131 | 5.318 |
| 56.50 – 57.49 | 0.31 | 10.66 | 6.240 | 5.432 |
| 57.50 – 58.49 | 0.32 | 10.72 | 6.350 | 5.545 |
| 58.50 – 59.49 | 0.32 | 10.77 | 6.459 | 5.659 |
| 59.50 – 60.49 | 0.33 | 10.82 | 6.569 | 5.772 |