



UPPER MIDWEST MARKETING AREA
Federal Order No. 30

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December 15, 2010

To: Handlers, Cooperatives and Interested Parties
Subject: Milk-Derived Products Weight Conversion Table

Effective with milk marketed January 1, 2011, milk-derived products such as buttermilk powder, casein, milk protein concentrates, whey protein concentrates and any other milk-derived ingredients must be accounted for in the receipts and utilization of a handler's Report of Receipts and Utilization, much in the same manner as nonfat dry milk and other concentrated milk products have currently been reported and accounted for.

The enclosed conversion table lists various milk-derived products and their standard fluid equivalent factors. This is by no means a comprehensive listing of every product that is currently being used in the industry. If you have a milk-derived product not listed on the conversion table, and you have complete information available to determine the actual conversion factors for that product, you may use the actual factor rather than the standard factor listed on the table.

If you have any questions regarding these factors or to request a conversion factor for a product not listed, please call Glen Rieck at (952) 277-2339 or Henry Schaefer at (952) 277-2336 in our Minneapolis office, or Rich Koirtyohann at (630) 437-5041 or Jim Biss at (630) 437-5021 in our Chicago office.

/s/ H. Paul Kyburz
Market Administrator

Attachment

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Milk-Derived Products Weight Conversion Table¹

<i>Milk-Derived Product</i>	<i>Weight per Gallon</i>	<i>Butterfat Percent</i>	<i>Protein Percent</i>	<i>Solids Not Fat Percent</i>	<i>Class I Volumetric Increase</i>	<i>Fluid Equivalent Factor</i>	<i>Class IV Fluid Equivalent Factor</i>
Buttermilk Powder	12.86	5.30	30.10	91.90	0.67	9.62	8.95
Calcium Caseinate	11.38	1.00	91.50	95.75	0.76	29.09	28.33
Lactose	13.82	0.00	0.00	99.30	0.62	0.62	0.00
Milk Protein Concentrate 42	12.82	1.00	40.50	95.00	0.67	12.88	12.21
Milk Protein Concentrate 56	12.44	1.20	54.50	94.30	0.69	17.34	16.65
Milk Protein Concentrate 70	12.10	1.00	68.10	94.40	0.71	21.66	20.95
Milk Protein Concentrate 75	11.87	1.50	73.50	93.50	0.73	23.38	22.65
Milk Protein Concentrate 80	11.75	1.70	78.40	93.30	0.73	24.94	24.21
Milk Protein Isolate	11.46	0.80	88.00	95.20	0.75	27.98	27.23
NFDM	13.20	0.80	33.20	95.70	0.65	10.54	9.89
Permeate Powder	13.80	1.50	2.00	94.50	0.63	0.65	0.02
Rennet Casein	11.56	0.40	80.00	90.40	0.75	25.43	24.68
Sodium Caseinate	11.38	1.00	91.50	95.75	0.76	29.10	28.34
Whey powder	13.93	1.10	8.66	94.40	0.62	2.76	2.14
Whole Milk Powder	11.24	27.50	24.40	70.50	0.77	8.03	7.26
WPC-35	12.88	2.10	29.70	93.30	0.67	9.46	8.79
WPC-50	12.23	3.70	49.00	92.00	0.71	15.61	14.90
WPC-65	11.64	5.60	59.40	90.20	0.74	18.94	18.20
WPC-80	11.10	7.20	75.00	88.80	0.78	23.91	23.13
Whey Protein Isolate	11.54	1.30	84.00	96.50	0.75	26.71	25.96

¹ Actual conversion factors should be used if available. If actual factors cannot be ascertained, use these standard conversion factors.