THE MILK PRICES REVIEW ACT (C.C.S.M. c. M130)

Producer Price and Milk Cost of Production Order, amendment

Regulation 7/2003 Registered January 15, 2003

Manitoba Regulation 77/94 amended

- 1 The Producer Price and Milk Cost of Production Order, Manitoba Regulation 77/94, is amended by this regulation.
- 2 Subsection 4(1) is repealed and the following substituted:

Price of fluid milk sold by producer or board

4(1) Pursuant to subsection 3(3) of the Act, and based on the cost of production formula established in section 2 and the pricing system established in section 3, the price at which milk may be sold by a producer or the board for use as fluid milk for 1 hectolitre of milk testing 3.7034 kilograms of butterfat is \$73.94 calculated according to the following component quantities and unit values:

Butterfat	$3.7034~\mathrm{kilograms}$ @ \$5.3000/kilogram	= \$19.63
Protein	$3.4092~\mathrm{kilograms}$ @ \$5.9024/kilogram	= 20.12
Other Solids	5.7921kilograms @ 5.9024 /kilogram	= 34.19
Total Price		\$73.94

- 3 Clause 8(a) is amended by striking out "\$69.64" and substituting "\$70.24".
- 4 The Schedule is repealed and the Schedule to this order is substituted.

Coming into force

5 This order comes into force on February 1, 2003.

January 14, 2003 MANITOBA MILK PRICES REVIEW

COMMISSION:

Daryl F. Kraft Chairperson

Randy Ozunko Secretary

SCHEDULE

COST OF PRODUCTION FORMULA

Pursuant to subsection 3(2) of *The Milk Prices Review Act*, the Manitoba Milk Prices Review Commission hereby establishes a cost of production formula. It reflects the cost of producing milk for use as fluid milk in Manitoba and includes a reasonable return on investment to the producers of milk. Under this formula, the cost of producing fluid milk is determined by the sum of the various cost categories, the analysis of which follows the formula. Each cost category is reported on the basis of production from a typical dairy farm with a herd size of 59 head and an average productivity of 59 hectolitres of milk per cow, or 3,481 hectolitres of marketable production per farm. Total volume actually marketed through the Manitoba Milk Producer Marketing Board is 57 hectolitres per cow, or 3,363 hectolitres per farm.

COST OF PRODUCTION FORMULA

January 9	9, 2003 costs per hectolitre		
1.	Operating Expenses	\$49,469	
2.	Feed and Bedding	75,531	
3.	Direct Labour	67,595	
4.	Management Fee	6,394	
5.	Herd Replacement	15,382	
6.	Depreciation	12,475	
7.	Return on Equity	9,658	
	Interest on Debt	6,810	
Sub-Total	, On-Farm Costs	\$243,314	
Total volume of marketable milk per farm 3,481 hl			
Total on-f	arm costs, per hectolitre produced		\$69.90
8.	Transportation	\$7,277	
	Adjusted Fluid Requirement	1,056	
11.	Market Expansion Fee	4,899	
12.	Fluid Skim-Off Costs	347	
Sub-total,	Off-Farm Costs	\$13,579	
Total volu	me of milk marketed per farm	3,363 hl	
Total off-f	arm costs, per hectolitre marketed		\$4.04
Total cost of fluid milk production, per hectolitre			<u>\$73.94</u>

1. Operating Expenses

19	989 SURVEY	J	ANUARY 9, 2003
Administration	\$13,250		\$19,013
Fuel and Lubricants	1,431		2,285
Livestock Supplies and Services	3,119		4,979
Veterinary and Medicine	2,730		4,424
Custom Work	2,804		3,995
Land and Building Taxes	920	(1)	1,289
Repairs and Maintenance — Buildings	2,360		2,789
Repairs and Maintenance — Equipme	nt 4,097		6,324
Repairs and Maintenance — Supplies	994		1,068
Board Administration	1,511	(2)	3,303
TOTAL OPERATING EXPENSES	\$33,216		\$49,469

Sources: Manitoba Milk Producers' Marketing Board, <u>Cost of Milk Production</u> <u>Study (Provincial Parameters)</u>, 1989 and 1991

Statistics Canada, 62-004, $\underline{Farm\ Input\ Price\ Index},\ Fourth\ Quarter,\ 2002$

- (1) 1991 survey value, to reflect re-assessment of farm properties
- (2) 1991 levy rates, applied to 3,481 hectolitres

2. Feed and Bedding

	QUANTITY PER COW	PRICE	COST PER COW	BLENDED COST PER FARM (1)
Produced Hay	5.48 t	\$ 97.21	\$ 532.71	\$ 31,431
Purchased Hay	.49 t	117.19	57.42	3,388
Produced Straw	.93 t	44.08	40.99	2,419
Purchased Straw	.07 t	74.87	5.24	309
Produced Barley	.51 t	152.18	77.61	3,068 (2)
Purchased Barley	1.81 t	177.18	320.70	12,677 (2)
35% Supplement	.47 t	428.00	201.16	7,952 (2)
16% Ration	2.73 t	259.00	707.07	13,767 (3)
Salt	3.53 kg	.28	.98	39 (2)

Minerals	13.00 kg	.86	11.18		443
				(2)	
Vitamins	.60 kg	1.59	0.95		38
	9			(2)	
TOTAL			\$1,956.01	\$75	5,531

- (1) An average of 59 cows were on the representative dairy farm.
- (2) Sixty-seven percent of the farms mixed their own rations. Therefore the cost for the average farm was the cost per cow times 59 cows multiplied by 67 percent.
- (3) Thirty-three percent of the farms purchased pre-mixed rations. Therefore, the cost to the average business was the per cow expenditure times 59 cows multiplied by 33 percent.

The blended cost consists of 67% of the cows fed on ration mixed on the farm, which is made up of barley, 35% supplement, salt, minerals and vitamins: while 33% of the cows received a complete ration (16% Dairy Ration).

Sources: Feed Quantities — Model ration established by Manitoba Agriculture

Hay Price — export basis, Manitoba, for three month period ending December, 2002

Straw Prices — Survey conducted by Manitoba Agriculture

Barley Price — Adjusted average price received by Manitoba farmers, December, 2002

Commercial Feeds and Supplements — Survey conducted by Manitoba Agriculture

Proportions of purchased hay, barley and straw — Manitoba Milk Producers' Marketing Board, <u>Cost of Milk Production Study</u>, <u>1991</u>

Transportation Rates — Survey conducted by Manitoba Agriculture, and Cost of Milk Production Study, 1991

3. Direct Labour

Family labour	3,540 hours @ \$15.13/hour	\$53,562
Hired labour	1,180 hours @ \$11.89/hour	14,033
Total direct labour	4 720 hours	\$67.595

Sources: Manitoba Milk Producers' Marketing Board, Cost of Milk Production

Study, 1989

Petkau, D.R., <u>A Study to Review and Improve the Milk Prices Review Commission's Producer Cost of Production Formula for Fluid Milk</u>, June, 1991

Statistics Canada, 72-002, <u>Employment, Earnings and Hours</u>, Manitoba Industrial Aggregate Wage — Average Hourly Earnings, including Overtime, August, 2002

4. Management Fee

2% of total undepreciated dairy assets, (\$319,679) \$6,394 including the dairy herd

Source: Manitoba Milk Producers' Marketing Board, Cost of Milk Production

Study, 1989

5. Herd Replacement

ANNUAL COST

Replacement Heifers (31.7% of average herd): \$35,055

19 head @ \$1,845.00

Less: Sale of Culls (assuming 3 deaths): (11,639)

16 head @ \$727.44

Less: Sale of Calves

26 Bull calves @ \$53.54 (1,392) 24 heifer calves @ \$276.75 (6,642)

Net herd replacement cost per year \$15,382

Sources: Average herd size and replacement rates — Manitoba Milk Producers'

Marketing Board, Cost of Milk Production Study, 1989

Heifer and Cull Price, base — Manitoba Milk Producers' Marketing

Board, Cost of Milk Production Study, 1991

Heifer and Cull Cow Price, Index — Manitoba, Agriculture, <u>Program and Policy Analysis Manitoba Markets</u>, D3 Cows, Manitoba Average Monthly

Price, to November, 2002

Calves, quantity — Manitoba Milk Prices Review Commission

Bull Calf Price, base — Manitoba Milk Producers' Marketing Board, <u>Cost</u>

of Milk Production Study, 1991

Heifer Calf Price, Base — 15% of replacement heifer cost

Bull Calf Prices, index — Agriculture Canada, <u>Canada Livestock and Meat Trade Report</u>, under 400 lb. steer calves, Manitoba Average Monthly Price, to November, 2002 (adjusted to a basis of 1997/1998

calf prices)

6. <u>Depreciation</u>

Depreciation allowance for dairy assets (buildings, \$12,475 equipment and vehicles) \$293,188 @ 4.26%

Source: Manitoba Milk Producers' Marketing Board, Cost of Milk Production

Study, 1989

7. Return on Equity/Interest on Debt

		ANNUAL COST
Short-Term Debt	\$ 12,415 @ 6.00%	\$ 745
Long-Term Debt	75,598 @ 8.02%	6,065
Unfinanced Assets	157,642 @ 6.13%	9,658
Total Return on Assets		\$16,468

Source: Bank of Canada Review

 $\overline{Short\text{-}Term\,Debt-B14020}, Chartered\,Bank\,Prime\,Business\,Rate\,(plus)$

11/2%), December, 2002

Long-Term Debt — B14051, Chartered Bank 5-year Conventional

Mortgage Rate, 60-month average to December, 2002

Unfinanced Assets — B14047, Provincial Weighted Average Long-Term

Bond Yield, 12-month average to December, 2002

8. <u>Transportation</u>

Annual cost of transporting milk to processing plants

\$7,277

3,363 hl @ \$2.16/hl

Source: Manitoba Milk Producers' Marketing Board, Transportation costs,

12-month average to October, 2002

9. Adjusted Fluid Requirement

This factor compensates producers for the value of additional milk required due to transportation shrinkage, fluid skim-off and shrinkage loss in processing.

Actual Fluid Sales	\$67,001,057
Add: Actual skim-off sold as Class 1b, 2 and 4a milk	17,409,487
Add: Actual Plant Loss (Class 4d)	775,859
Class 1 actual value of fluid revenue generated based on annual sales of 106.53 million litres	\$85,186,403
Less: Class 1 projected Value of Fluid revenue based on COP and on annual sales of 106.53 million litres	(84,607,302)
Less: Butterfat Credit	(670,929)
Adjusted Revenue Overage (shortfall)	(\$91,828)
Add: Applicable federal subsidy @ \$0.21 per kg of butterfat on Class 4a sales (eliminated)	0
Net Adjusted Revenue, Overage (shortfall)	(\$91,828)
Divided by Total Fluid Sales (1,065,328 hl)	\$.0862/hl
Multiplied by Fluid Sales per Farm (3,363 hl)	\$290 per farm

 $Sources: \quad \ \ Volumes \ of \ skim-off \ and \ industrial \ prices -- \ Manitoba \ Milk \ Producers'$

Marketing Board and Manitoba Milk Prices Review Commission Current Class 1 value — Manitoba Milk Prices Review Commission Allocation of skim-off to end-product utilization — Manitoba Milk Prices

Review Commission survey of fluid milk processors

10. Metre Shrink

Transportation Shrinkage (%) .0029 Total fluid milk used for processing x 1,131,922 hl Transportation Shrinkage 3,282 hl Total cost of fluid production x \$73.94 Transportation Shrinkage (\$) \$242,706 Divided by Total Fluid Milk Sales \$106,532,848 \$0.228/hl Fluid sales per farm x 3,363 hl \$766 Transportation shrinkage per farm Adjusted fluid requirement per farm (add) \$290 Total adjusted fluid requirement \$1.056

Sources: Volumes of shrinkage and milk processed — Manitoba Milk Producers'
Marketing Board and Manitoba Milk Prices Review Commission

11. Market Expansion Fee

Annual cost of fluid milk promotion programs \$4,899 3,363 hl @ \$1.46/hl

Source: Manitoba Milk Producers' Marketing Board

12. Fluid Skim-Off Costs

This factor provides for net costs related to handling of butter produced from fluid skim-off. Values on summary page assume all skim-off costs are a cost to fluid sales.

Manitoba fluid share of Canadian butter production costs	3.49%
1996-97 Canadian butter management costs	\$3,150,126
Manitoba fluid skim-off share of costs	\$109,939
Fluid skim-off costs per hl	\$0.103
Fluid skim-off costs per farm, annually	<u>\$347</u>

Sources: Canadian Dairy Commission, <u>1996-97 Annual Report</u>

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