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

# Producer Price and Milk Cost of Production Order, amendment

Regulation 107/2004 Registered June 14, 2004

# 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- 2 Subsection 4(1) is repealed and the following substituted: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 \$76.79 calculated according to the following component quantities and unit values:

Total Price		<u>\$76.79</u>
Other Solids	5.7921 kilograms @ \$6.2114/kilogram	= 35.98
Protein	3.4092 kilograms @ \$6.2114/kilogram	= 21.18
Butterfat	3.7034 kilograms @ \$5.3000/kilogram	= \$19.63

- 3 Clause 8(a) is amended by striking out "\$73.94" and substituting "\$72.95".
- 4 The Schedule is repealed and the Schedule to this order is substituted.

# Coming into force

# 5 This order comes into force on July 1, 2004.

June 11, 2004 MANITOBA MILK PRICES REVIEW

COMMISSION:

Craig Lee 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

June 4, 2 1. 2. 3. 4. 5. 6. 7.	O04 costs per hectolitre Operating Expenses Feed and Bedding Direct Labour Management Fee Herd Replacement Depreciation Return on Equity Interest on Debt	\$52,663 74,503 69,452 6,371 21,873 12,475 8,936 6,153	
Sub-Tota	l, On-Farm Costs	\$252,426	
Total volume of marketable milk per farm 3,481 hl			
Total on-	farm costs, per hectolitre produced		\$72.52
8. 9. & 10. 11. 12.	Transportation Adjusted Fluid Requirement Market Expansion Fee Fluid Skim-Off Costs	\$7,463 1,699 4,841 <u>342</u>	
Sub-total	, Off-Farm Costs	\$14,345	
Total volu	ume of milk marketed per farm	3,363 hl	
Total off-farm costs, per hectolitre marketed			\$4.27
Total cost of fluid milk production, per hectolitre			<u>\$76.79</u>

# 1. Operating Expenses

	1989 SURVEY	<b>JUNE 4, 2004</b>
Administration	\$13,250	\$21,197
Fuel and Lubricants	1,431	1,906
Livestock Supplies and Services	3,119	4,999
Veterinary and Medicine	2,730	4,730
Custom Work	2,804	4,130
Land and Building Taxes	920 (	1) 1,252
Repairs and Maintenance — Buildi	ings 2,360	2,862
Repairs and Maintenance — Equip	ment 4,097	6,524
Repairs and Maintenance — Suppl	ies 994	1,069
Board Administration	1,511 (	2) 3,995
TOTAL OPERATING EXPENSES	\$33,216	<b>\$52,663</b>

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

Statistics Canada, 62-004, <u>Farm Input Price Index</u>, First Quarter, 2004

- (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	\$ 111.28	\$ 609.81	\$ 35,979
Purchased Hay	.49 t	131.25	64.31	3,795
Produced Straw	.93 t	44.08	40.99	2,419
Purchased Straw	.07 t	74.87	5.24	309
Produced Barley	.51 t	96.88	49.41	1,953 (2)
Purchased Barley	1.81 t	121.88	220.60	8,720 (2)
35% Supplement	.47 t	439.20	206.42	8,160 (2)
16% Ration	2.73 t	238.60	651.38	12,682 (3)
Salt	3.53kg	.30	1.06	42 (2)
Minerals	13.00kg	.79	10.27	406 (2)
Vitamins	.60kg	1.57	.94	37 (2)

TOTAL \$1,860.43 \$74,503

- (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 six month period ending March, 2004

Straw Prices — Survey conducted by Manitoba Agriculture

Barley Price — Adjusted average price received by Manitoba farmers,

May, 2004

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, <u>1991</u>

#### 3. <u>Direct Labour</u>

Family labour	3,540 hours @ \$15.55/hour	\$55,034
Hired labour	1,180 hours @ \$12.22/hour	14,418
Total direct labour	4,720 hours	\$69,452

Sources:

Manitoba Milk Producers' Marketing Board, <u>Cost of Milk Production</u> 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, December, 2003

# 4. Management Fee

2% of total undepreciated dairy assets, (\$318,558) \$6,371 including the dairy herd

Source: Manitoba Milk Producers' Marketing Board, <u>Cost of Milk Production</u> Study, 1989

#### 5. Herd Replacement

ANNUAL COST

Replacement Heifers (31.7% of average herd): \$34,694

19 head @ \$1,826.00

Less: Sale of Culls (assuming 3 deaths): (3,507)

16 head @ \$219.18

Less: Sale of Calves

26 Bull calves @ \$105.42 (2,741) 24 heifer calves @ \$273.90 (6,574)

Net herd replacement cost per year \$21,873

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

Marketing Board, Cost of Milk Production Study, 1989

 $\label{eq:continuous} \mbox{Heifer and Cull Price, base} - \mbox{Manitoba Milk Producers' Marketing}$ 

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 April, 2004

Calves, quantity — Manitoba Milk Prices Review Commission

Bull Calf Price, base — Manitoba Milk Producers' Marketing Board,

Cost 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 April, 2004 (adjusted to a basis of 1997/1998

calf prices)

#### 6. Depreciation

Depreciation allowance for dairy assets (buildings, 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 @ 5.25%	\$ 652
Long-Term Debt	75,598 @ 7.28%	5,501
Unfinanced Assets	156,521 @ 5.71%	8,936
Total Return on Assets	<b>3</b>	\$15,089

Source: Bank of Canada Review

Short-Term Debt — B14020, Chartered Bank Prime Business Rate

(plus 11/2%), May, 2004

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

Mortgage Rate, 60-month average to May, 2004

Unfinanced Assets — B14047, Provincial Weighted Average

Long-Term Bond Yield, 12-month average to December, 2003

### 8. Transportation

Annual cost of transporting milk to processing plants \$7,463 3,363 hl @ \$2.22/hl

Source: Manitoba Milk Producers' Marketing Board, <u>Transportation costs</u>,

12-month average to May, 2004

# 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	\$70,747,809	
Add: Actual skim-off sold as Class 1b, 2 and 4a milk	17,666,405	
Add: Actual Plant Loss (Class 4d)	786,939	
Class 1 actual value of fluid revenue generated based on annual sales of 108.05 million litres  Less: Class 1 projected Value of	\$89,201,153	
Fluid revenue based on COP and on annual sales of 108.05 million litres	(88,811,657)	
Less: Butterfat Credit	(680,511)	
Adjusted Revenue Overage (shortfall)	(\$291,015)	
Add: Applicable federal subsidy @ \$0.21 per kg of butterfat on Class 4a sales (eliminated)	0	
Net Adjusted Revenue, Overage (shortfall)	(\$291,015)	
Divided by Total Fluid Sales (1,080,542 hl)	\$.2693/hl	
Multiplied by Fluid Sales per Farm (3,363 hl)	\$906	

per farm

Sources: 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  $\underline{x}$  1,144,186 hl

Transportation Shrinkage 3,318 hl

Total cost of fluid production x \$76.79

Transportation Shrinkage (\$) \$254,789

Divided by Total Fluid Milk Sales \$108,054,278

\$0.236/hl

Fluid sales per farm  $\underline{x}$  3,363 hl

Transportation shrinkage per farm \$793

Adjusted fluid requirement per farm (add) \$906

Total adjusted fluid requirement \$1,699

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 \$4,841 3,363 hl @ \$1.44/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	\$0.102
Fluid skim-off costs per farm, annually	\$342

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

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