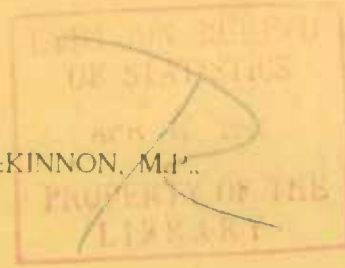


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**CANADA**  
**DOMINION BUREAU OF STATISTICS**  
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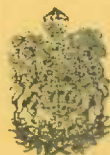
REPORT NO. 4

**THE DAIRY SITUATION**  
**IN**  
**CANADA**

**FOURTH QUARTER**  
**SEPTEMBER - DECEMBER**

**1940**

---




OTTAWA  
1941

Price \$1 a year

Chart 1

# PRODUCTION OF CREAMERY BUTTER, CHEESE AND CONCENTRATED MILK PRODUCTS

1939 

1940 

MILLION  
LB.

SEPTEMBER TO DECEMBER

JANUARY TO DECEMBER

200

100

0

CREAMERY  
BUTTER

CHEESE  
CONCENTRATED  
MILK  
PRODUCTS

CREAMERY  
BUTTER

CHEESE  
CONCENTRATED  
MILK  
PRODUCTS

81,034,070

76,469,470

38,448,314

44,572,943

54,478,045

56,071,121

267,368,127

264,152,974

122,771,828

142,107,056

166,596,841

195,475,734

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DOMINION BUREAU OF STATISTICS  
AGRICULTURAL BRANCH

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THE DAIRY SITUATION

The Bureau of Statistics, in presenting this report of the Dairy Situation in Canada for the last four months of 1940, acknowledges the assistance of the Dairy Commissioners, Dairy Superintendents, Statisticians, Correspondents and Farm Observers, who supplied the basic information used herein.

Milk production during the four months, September-December, 1940, was approximately equal to the production for the same period of 1939, according to reports of Dairy Correspondents. Announcement was made in November of arrangements made for greater cheese and concentrated milk exports to the United Kingdom in 1941. To supply the quantities of these products required for export and also to take care of the large domestic consumption of butter consequent on greater employment, increased milk production will be necessary.

During the four months under discussion there were fewer creameries and more cheese factories in operation than during the same months of the previous year, with the exception of December when there were fewer cheese factories in operation than in December 1939. These changes are shown below:

NUMBERS OF OPERATING DAIRY FACTORIES IN CANADA

(September-December, 1939 and 1940).

	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<u>Creameries -</u>				
1939	1,341	1,377	1,352	1,206
1940	1,252	1,250	1,295	1,177
<u>Cheese Factories -</u>				
1939	1,019	941	637	311
1940	1,061	1,028	701	217
<u>Combined Factories -</u>				
1939	107	78	44	29
1940	135	151	65	40

FEED COSTS - From a price standpoint the feed situation was advantageous. The average prices of oats and barley for the four-month period were not only lower as compared with the five-year (1935-1939) average for the same period, but were also lower than the prices for the same months in 1939. For bran, however, there were increases in price both over the five-year average and over last year,

TABLE I - THE CREAMERY BUTTER POSITION IN CANADA, SEPTEMBER TO DECEMBER, 1936 to 1940.

(In Thousands of Pounds)

		September	October	November	December	September to December
Stocks in storage at first of the month -	1936	50,488	55,376	53,162	44,388	-
	1937	49,078	54,187	47,733	38,045	-
	1938	61,114	64,625	62,466	53,048	-
	1939	54,936	57,013	56,392	49,429	-
	1940	57,922	58,419	51,320	41,758	-
Stocks in transit at first of the month -	1936	465	644	476	213	-
	1937	812	1,030	941	252	-
	1938	890	594	764	392	-
	1939	409	605	280	443	-
	1940	1,025	717	554	521	-
Production during month -	1936	28,664	22,924	13,554	10,739	75,331
	1937	29,179	22,215	13,303	9,347	74,544
	1938	30,339	23,491	14,694	11,259	79,783
	1939	29,981	23,756	15,796	11,901	81,034
	1940	26,528	22,534	15,049	12,308	76,469
Imports -	1936	1	1	1	7	10
	1937	7	1	1	6	15
	1938	1	1	1	1	4
	1939	1	-	-	-	1
	1940	-	-	-	-	1
Exports -	1936	215	59	57	66	397
	1937	52	1,725	1,918	82	3,777
	1938	1,571	1,247	368	186	3,372
	1939	234	259	249	105	847
	1940	169	145	147	116	577
Prices -	1936	24 5/8	23 7/8	25 1/8	25 7/8	24 7/8
	1937	26 3/8	28 1/8	29 7/8	30 1/8	28 5/8
	1938	22 3/4	22 7/8	22 1/8	21 1/2	22 1/4
	1939	26 1/4	27 3/4	28 1/8	28	27 1/2
	1940	23 3/8	27 7/8	30 3/8	35	29 1/8
x Total Disappearance of Canadian-made Butter (Domestic and Export)	1936	23,597	25,305	22,591	19,011	90,504
	1937	23,852	28,723	23,710	19,737	96,077
	1938	27,124	25,880	24,084	20,083	97,171
	1939	27,708	24,702	22,190	20,148	94,748
	1940	26,339	29,546	24,944	21,037	101,866
x Domestic Disappearance of Canadian-made Butter	1936	23,382	25,246	22,534	18,945	90,107
	1937	23,800	27,003	21,792	19,705	92,300
	1938	25,553	24,633	23,716	19,897	93,799
	1939	27,474	24,443	21,941	20,043	97,901
	1940	26,170	29,401	24,797	20,921	101,289

xDisappearance figures are calculated on the basis of storage and transit stocks combined.

but the average prices for the three feeds were less by 4 per cent at Montreal and by 3.3 per cent at Winnipeg than prices during the same period of 1939 at those points, as may be seen in Table II.

### THE CREAMERY BUTTER POSITION

The production of creamery butter, during the last four months of 1940 amounted to 76.5 million pounds, a reduction of 4.6 million pounds as compared with the period September-December 1939. There was a slight increase in production in December but decreases were evident in the other three months. The total disappearance for the four months, 101.9 million pounds, was 7.1 million pounds greater than the corresponding disappearance in 1939. Although less by 1.4 million pounds in September than in the same month in 1939, the disappearance rose in October to 29.5 million pounds, which was 4.8 million pounds greater than in the previous October. This was followed by a seasonal decline to 25 millions in November and 21 millions in December as compared with 22.2 millions and 20.0 in the corresponding months of the previous year. As exports were small, the domestic disappearance was only slightly less than the total disappearance.

On September 1, 1940, the index number of employment for all industries (base 1926=100) was 131.6 as compared with 119.6 for the previous September. This rose to 136.2 on October 1; 139.2 on November 1, and 139.1 on December 1. Sales of butter shared in the general increase in purchasing power which resulted from expanding employment. The large disappearance in October was due in large measure to rising prices and the probability of further increases. Consequently, purchases by retailers, institutions and probably householders as well, increased during that month, and continued to do so during November but slackened off decidedly during December.

The rise in prices, which began in September, was continued through October and November and advanced to a new high in December. This may be traced on Table III, "Wholesale Price Indexes". September is shown at 58.6, December at 86.0, and an average for the four months at 72.5 as compared with the average for the corresponding periods in 1939 of 70.1; an increase of 3.4 per cent.

The actual prices, as quoted by the Canadian Commodity Exchange, Montreal, for first grade solids, averaged 25 3/8 cents for September as compared with 26 1/4 cents in September 1939, and 22 3/8 cents in August 1940. The average price increased in October to 27 7/8 cents, which was practically the same as in October 1939; November saw the average increase to 30 3/8 cents being 2 1/4 cents more than the average for November of the previous year; in December the average price had risen to 35 cents per pound which was 7 cents higher than the 1939 December average price. Wholesale jobbing quotations in Montreal, as given by the Dominion Department of Agriculture in its weekly "Dairy Produce Market Reports", for No. 1 pasteurized creamery butter rose from 22 1/8 cents in the first week of September to 37 1/2 cents in the last week of December.

On 27th December, 1940, the Wartime Prices and Trades Board issued its "Order Respecting Butter", which read, in part, as follows:

- "2. Until further notice, the maximum price per pound wholesale at which any grade or quality of butter may be sold or offered for sale in any place shall not exceed the maximum price per pound wholesale charged in that place for that

TABLE II - FEED PRICES AT MONTREAL AND WINNIPEG AT THE END OF THE MONTHS SEPTEMBER TO DECEMBER, 1940,  
WITH COMPARATIVE FIGURES FOR THE SAME DATES OF 1939, AND THE AVERAGES  
FOR THE FIVE YEARS 1935 TO 1939.

	SEPTEMBER 30		OCTOBER 31		NOVEMBER 30		DECEMBER 31		SEPTEMBER-DECEMBER Average	
	Price Per Ton		Price Per Ton		Price Per Ton		Price Per Ton		Price Per Ton	
	MONTREAL	WINNIPEG	MONTREAL	WINNIPEG	MONTREAL	WINNIPEG	MONTREAL	WINNIPEG	MONTREAL	WINNIPEG
<b>OATS No. 3 C.W.</b>										
1935-1939	26.57	21.53	25.86	20.56	25.35	20.00	28.38	21.97	26.54	21.01
1940	23.23	18.38	24.63	18.01	24.78	19.34	25.00	17.82	24.41	18.40
Percentage change	-12.6	-14.6	- 4.8	-12.4	- 2.3	- 3.3	-11.9	-18.7	- 8.0	-12.4
1939	23.31	19.26	23.16	18.45	24.12	18.45	29.41	22.35	25.00	19.63
1940	23.23	18.38	24.63	18.01	24.78	19.34	25.00	17.87	24.41	18.40
Percentage change	- 0.4	- 4.6	+ 6.3	- 2.4	+ 2.7	+ 4.8	-15.0	-20.1	- 2.4	- 6.3
<b>BARLEY No.3 C.W.</b>										
1935-1939	20.61	17.17	19.61	16.38	20.02	16.74	22.81	20.94	20.76	17.81
1940	17.41	13.48	18.84	14.29	19.06	13.16	20.22	15.13	18.88	14.01
Percentage change	-15.5	-21.5	- 4.0	-12.8	- 4.8	-21.4	-11.3	-11.7	- 9.9	-21.3
1939	21.94	18.98	22.66	17.76	23.07	18.56	23.17	17.14	22.71	18.11
1940	17.41	13.48	18.84	14.29	19.06	13.16	20.22	15.13	18.88	14.01
Percentage change	-20.7	-29.0	-16.9	-19.5	-17.4	-29.1	-12.7	-11.3	-16.9	-23.6
<b>BRAN</b>										
1935-1939	22.85	21.60	23.65	21.20	24.65	22.20	25.45	22.40	24.15	21.85
1940	25.25	23.00	25.25	23.00	27.25	25.00	27.25	25.00	26.25	24.00
Percentage change	+10.5	+ 6.5	+ 6.8	+ 8.5	+10.5	+12.6	+ 7.1	+11.6	+ 8.7	+ 9.8
1939	24.25	23.00	23.25	21.00	25.25	24.00	26.25	23.00	24.75	22.75
1940	25.25	23.00	25.25	23.00	27.25	25.00	27.25	25.00	26.25	24.00
Percentage change	+ 4.1	-	+ 8.6	+ 9.5	+ 7.9	+ 4.2	+ 3.8	+ 8.7	+ 6.1	+ 5.5
<b>ALL ABOVE FEEDS</b>										
1935-1939	23.34	20.10	23.04	19.38	24.15	19.65	25.55	21.77	23.81	20.24
1940	21.96	18.29	22.91	18.43	23.70	19.17	24.15	19.33	23.18	18.00
PERCENTAGE CHANGE	- 5.9	- 9.0	- 0.6	- 4.9	- 1.9	- 2.5	- 5.5	-11.2	- 2.7	-11.1
1939	23.16	20.41	23.02	19.07	24.15	20.34	26.28	20.83	24.15	20.16
1940	21.96	18.29	22.91	18.43	23.70	19.17	24.15	19.33	23.18	18.80
PERCENTAGE CHANGE	- 5.2	-10.4	- 0.5	- 3.4	- 1.9	- 5.8	- 8.1	- 7.2	- 4.0	- 6.8

grade or quality on the twelfth day of December, 1940, whether in solids, in rolls or in prints.

3. Until further notice, no change shall be made in the terms or conditions of sale in effect on the twelfth day of December, 1940, which would result in an increase in such maximum price.

The average cost of butter-fat per pound based on quantities and values when delivered at dairy factories, is shown below:

BUTTER-FAT PRICES

September-December, 1939 and 1940.

Province	Year	September	October	November	December	Average
(Cents per pound)						
CANADA	1939	24	27	28	28	27
	1940	22	23	30	35	23
Prince Edward Island	1939	24	30	30	31	28
	1940	26	-	32	38	31
Nova Scotia	1939	25	29	30	31	27
	1940	24	28	33	38	30
New Brunswick	1939	27	29	31	31	28
	1940	24	28	32	37	27
Quebec	1939	28	30	31	30	29
	1940	26	31	34	39	32
Ontario	1939	27	29	31	30	28
	1940	23	28	32	35	29
Manitoba	1939	22	24	24	24	23
	1940	19	23	29	33	25
Saskatchewan	1939	20	23	23	24	22
	1940	17	21	25	30	22
Alberta	1939	20	21	23	24	21
	1940	19	22	27	30	24
British Columbia	1939	25	28	30	30	28
	1940	21	24	30	34	27

THE CHEESE POSITION

The production of cheese in the four months September to December, 1940, was 44.6 million pounds, an increase of 6.1 millions over the same period of 1939. Exports during the four months, however, were approximately 3.8 million pounds.



TABLE III - WHOLESALE PRICE INDEXES OF THE PRINCIPAL DAIRY PRODUCTS  
IN COMPARISON WITH OTHER AGRICULTURAL PRODUCTS IN CANADA, x  
SEPTEMBER TO DECEMBER, 1939 and 1940.

Base 1926=100.

	September	October	November	December	Average September to December
Fresh Milk					
1939	82.5	87.0	87.9	87.9	86.3
1940	87.1	87.5	91.3	91.6	89.4
%	(+) 5.6	(+) 0.6	(+) 3.9	(+) 4.2	(+) 3.6
Butter					
1939	66.4	71.3	71.6	71.2	70.1
1940	58.6	69.0	76.4	86.0	72.5
%	(-) 11.7	(-) 3.2	(+) 8.7	(+) 20.8	(+) 3.4
Cheese					
1939	70.4	68.9	76.9	79.6	73.9
1940	70.0	69.5	72.7	73.7	71.5
%	(-) 0.6	(+) 0.9	(-) 5.5	(-) 7.4	(-) 3.2
Coarse Grains /					
1939	69.9	63.7	62.8	73.4	67.4
1940	55.5	61.9	67.5	62.7	61.9
%	(-) 20.6	(-) 2.8	(+) 7.5	(-) 14.6	(-) 8.2
Wheat (All Grades)					
1939	49.4	47.2	48.5	55.0	50.0
1940	48.0	47.6	48.6	49.0	48.3
%	(-) 2.8	(+) 0.6	(+) 0.2	(-) 10.9	(-) 3.4
Veal					
1939	91.9	91.0	95.3	100.5	94.7
1940	100.5	97.1	94.9	104.1	99.1
%	(+) 9.4	(+) 6.7	(-) 0.4	(+) 3.6	(+) 4.6
Steers					
1939	100.7	98.3	98.6	100.6	99.5
1940	114.7	110.8	112.6	120.1	114.5
%	(+) 13.9	(+) 12.7	(+) 14.2	(+) 19.4	(+) 15.1
Hogs					
1939	66.9	65.7	66.6	68.4	66.9
1940	68.9	67.7	62.8	62.3	65.4
%	(+) 3.0	(+) 3.0	(-) 6.0	(-) 8.9	(-) 2.2
All Farm Products					
1939	64.2	64.5	65.1	69.1	65.7
1940	63.8	64.6	66.9	67.1	65.6
%	(-) 0.4	(+) 0.2	(+) 2.8	(-) 2.9	(-) 0.2

x Data supplied by the Internal Trade Branch, Dominion Bureau of Statistics.

/ Includes Oats No. 2 C.W. and Barley, No. 3, C.W.

less than the exports during the same period of the previous year. The total disappearance of cheese was 13.6 million pounds less than the total disappearance in the previous year, being 52.4 million pounds as compared with 66.0 million in September-December 1939, a decrease of 20.6 per cent.

According to the arrangement with the United Kingdom, announced in November, Canada agreed to supply at least 112 million pounds of cheese in 1941, at a price of 14.4 cents per pound at Montreal.

The wholesale price index of cheese for September-December was 3.2 per cent less than the price index for the corresponding period of 1939, being 71.5 as compared with 73.9. The average price of Ontario coloured cheese at Montreal for each of the four months was 14 cents per pound, as compared with 12 1/8 cents in September and 16 7/8 cents in December 1939. Comparing butter and cheese prices on a butter-fat basis at Montreal there was a difference in favour of cheese of 7 1/4 cents in September and 1 3/4 cents in October, while in November the difference was in favour of butter to the extent of 1 1/4 cents and in December of 7 cents, or a net difference in favour of cheese for the four months of 1/8 cent.

BUTTER AND CHEESE AT MONTREAL ON A BUTTER-FAT PRICE BASIS.

		Butter	Cheese	Difference applied to cheese
(Cents per pound)				
September	1939	32	30 7/8	- 1 1/8
	1940	28 1/2	35 3/4	7 1/4
October	1939	33 7/8	35 3/8	1 1/2
	1940	34	35 3/4	1 3/4
November	1939	34 3/8	40 1/8	5 3/4
	1940	37	35 3/4	- 1 1/4
December	1939	34 1/8	43	8 7/8
	1940	42 3/4	35 3/4	- 7
September - December	1939	33 5/8	37 3/8	3 3/4
	1940	35 5/8	35 3/4	1/8

TABLE IV - THE CHEESE POSITION IN CANADA, SEPTEMBER TO DECEMBER, 1939 and 1940.  
(In Thousands of Pounds)

		September	October	November	December	September to December
Stocks in storage at first of the month -	1939	53,298	52,351	41,208	28,175	-
	1940	32,547	33,069	32,698	27,445	-
Production during month -	1939	17,904	12,679	5,173	2,529	38,445
	1940	20,382	15,934	5,902	1,799	44,573
Imports -	1939	70	174	295	139	678
	1940	19	13	39	23	97
Exports -	1939	9,661	13,541	18,622	3,019	50,043
	1940	17,708	15,269	9,259	3,970	46,256
Prices -	1939	12 1/8	13 7/8	15 3/4	16 7/8	14 5/8
	1940	14	14	14	14	14
Total Disappearance of Canadian-made Cheese -	1939	18,852	24,921	18,169	4,978	66,020
	1940	20,360	16,355	11,161	4,532	52,438

TABLE V - PERCENTAGE CHANGE IN CHEESE DISAPPEARANCE, PRODUCTION AND STOCKS

	Total Disappearance		Production of Cheese		Total Stocks	
	Last Month	Last Year	Last Month	Last Year	Last Month	Last Year
	%	%	%	%	%	%
September	(-) 16.0	(+) 8.0	(-) 14.4	(+) 13.6	(-) 0.5	(-) 38.9
October	(-) 19.7	(-) 31.9	(-) 23.5	(+) 24.1	(+) 1.6	(-) 36.8
November	(-) 31.3	(-) 38.6	(-) 63.0	(+) 15.9	(-) 1.1	(-) 20.7
December	(-) 59.1	(-) 3.3	(-) 69.5	(-) 28.2	(-) 16.1	(-) 2.6
September to December	-	(-) 29.6	-	(+) 15.9	-	-

The average cost of factory milk per hundredweight, calculated from the quantities and values delivered at factories, was as follows:

MILK PRICES  
(September - December, 1939 and 1940).  
(Per hundred pounds).

Province	Year	September	October	November	December	Average
		\$ ¢	\$ ¢	\$ ¢	\$ ¢	\$ ¢
CANADA	1939	1.03	1.13	1.25	1.40	1.20
	1940	.98	1.08	1.24	1.30	1.15
P.E.I.	1939	1.05	1.04	-	-	1.05
	1940	.77	-	1.21	1.31	1.04
N. B.	1939	1.07	-	-	-	1.07
	1940	1.11	-	-	-	1.11
Quebec	1939	1.12	1.24	1.40	--	1.14
	1940	1.10	1.10	1.10	1.10	1.10
Ontario	1939	1.03	1.17	1.35	1.39	1.10
	1940	1.08	1.15	1.22	1.34	1.13
Manitoba	1939	1.16	1.25	1.47	1.66	1.32
	1940	.97	1.11	1.40	1.46	1.14
Saskatchewan	1939	.83	-	1.16	-	.90
	1940	.83	.89	1.19	-	.89
Alberta	1939	.84	1.01	1.02	1.07	.96
	1940	.90	1.01	1.11	1.23	.95
B. C.	1939	1.10	1.05	1.09	1.47	1.13
	1940	1.05	1.19	1.47	1.37	1.27

CONCENTRATED MILK PRODUCTION

Table VI, giving the production of concentrated milk products, shows an increase for whole milk products of 1.4 per cent over the figures for last year, but this increase was confined to condensed whole milk. The most important product in this group is Evaporated Whole Milk, which shows a decrease of 3.5 per cent, there being only 37.7 million pounds produced as compared with 39 million pounds in the previous year.

Concentrated milk by-products increased 9.7 per cent. The most important commodity in this group, Skim Milk Powder, increased 8.5 per cent, there being 7.1 million pounds produced as compared with a production of 6.5 million the previous year.

TABLE VI - PRODUCTION OF CONCENTRATED MILK PRODUCTS IN CANADA,  
SEPTEMBER TO DECEMBER, 1939 and 1940.

(In Thousands of Pounds)

Commodity	September		October		November		December		September to December		Percentage Increase (+) Decrease (-)
	1939	1940	1939	1940	1939	1940	1939	1940	1939	1940	

Whole Milk Products

Condensed	1,302	1,517	875	1,939	504	1,417	469	1,199	3,150	6,072	(+) 92.8
Evaporated	10,377	11,551	11,363	9,537	9,055	8,034	8,247	8,558	39,042	37,680	(-) 3.5
Milk Powder	610	519	804	247	493	363	434	294	2,341	1,423	(-) 39.2
Cream Powder	17	5	2	2	-	-	-	-	19	7	(-) 63.2
<b>Total</b>	<b>12,306</b>	<b>13,592</b>	<b>13,044</b>	<b>11,725</b>	<b>10,052</b>	<b>9,814</b>	<b>9,150</b>	<b>10,051</b>	<b>44,552</b>	<b>45,182</b>	<b>(+) 1.4</b>

Milk By-Products

<b>Skim Milk:</b>											
Condensed	306	338	379	460	280	434	262	339	1,227	1,571	(+) 28.0
Evaporated	60	98	55	93	54	52	52	75	221	318	(+) 43.9
Powder	2,169	2,402	1,703	2,110	1,317	1,155	1,343	1,417	6,532	7,084	(+) 8.5
<b>Buttermilk:</b>											
Powder	364	327	304	333	183	219	251	151	1,102	1,030	(-) 6.5
Condensed	112	169	44	99	114	165	196	220	466	653	(+) 40.1
Casein	117	62	76	37	56	37	41	37	290	173	(-) 40.3
Sugar of Milk	31	23	24	16	21	11	12	10	88	60	(-) 31.8
<b>Total</b>	<b>3,159</b>	<b>3,419</b>	<b>2,585</b>	<b>3,148</b>	<b>2,025</b>	<b>2,073</b>	<b>2,157</b>	<b>2,249</b>	<b>9,926</b>	<b>10,889</b>	<b>(+) 9.7</b>

Whole Milk and Milk By-Products, Combined

<b>Total</b>	<b>15,465</b>	<b>17,011</b>	<b>15,629</b>	<b>14,873</b>	<b>12,077</b>	<b>11,887</b>	<b>11,307</b>	<b>12,300</b>	<b>54,478</b>	<b>56,071</b>	<b>(+) 2.9</b>
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An enquiry from the British Ministry of Food for shipments totalling one million cases of evaporated milk during 1941 is under consideration. During 1940 some 35 million pounds of this product were exported to all countries.

REVIEW OF THE SITUATION BY PROVINCES

Prince Edward Island

Wet weather prevailed throughout the province in the fall months. There was about twice the average rainfall in September, while precipitation was about normal during the next three months. At Charlottetown, the precipitation averaged about 8 inches in September as compared with 4 inches in the same month of the preceding year. The continuous wet weather spoiled some grain, which, however, will be fed to stock.

The pasture rating for September 1940 was 86 as compared with 62 for the same month in 1939. Considerably more feed was produced than in the previous year and the hay crop contained a larger percentage of clover. The barley crop was nearly 50 per cent greater than in the previous year. The total tonnage of the principal feed crops amounted to 556 thousand as compared with 507 thousand tons in the preceding year.

PRODUCTION OF FEED CROPS

	Unit of Measure	1939	1940	Percentage Change
		(thousands)		
Hay and clover	Ton	294	332	+ 12.9
Barley	Bushel	252	371	+ 47.2
Oats	Bushel	4,868	4,355	- 0.3
Turnips	Cwt.	2,430	2,506	+ 3.0
Fodder corn	Ton	3	3	
<b>Total Feed</b>	<b>Ton</b>	<b>506.8</b>	<b>555.9</b>	<b>+ 9.7</b>

Dairy cattle were reported in better condition than in the previous year and supplementary feeding commenced about October 15. Milk cow numbers were down from 1939, but according to Dairy Correspondents there was an increase of about 2 per cent in the percentage milking compared with the fall months of 1939. The creamery butter output in the fall months was up 16.1 per cent while the factory cheese output increased 91 per cent as compared with the fall production of 1939. There was a reduction of approximately 2 per cent in the quantity of butter made on farms, according to our Dairy Correspondents. Milk production per farm was slightly higher than that of the preceding year and there has been a good demand for fresh milk in the cities and towns. Milk production per cow, based on all cows in the herds of Dairy Correspondents, advanced from 10.5 pounds per day during the fall of 1939 to 11.2 pounds during the September-December period of 1940.

Nova Scotia

The month of September was inclined to be dry in some districts while October, November, and December were cold and wet with considerably less sunshine

TABLE VII - RETAIL PRICE INDEXES OF DAIRY AND MEAT PRODUCTS IN CANADA, x  
SEPTEMBER TO DECEMBER, 1939 and 1940.

Base 1926=100.

	September	October	November	December	Average September to December
<b>Creamery Butter</b>					
1939	58.6	71.4	72.9	73.2	69.0
1940	59.2	61.9	69.8	74.0	66.2
%	(+) 1.0	(-) 13.3	(-) 4.3	(+) 1.1	(-) 4.1
<b>Cheese</b>					
1939	67.6	70.1	71.7	73.6	70.7
1940	74.5	74.5	75.3	75.7	75.0
%	(+) 10.2	(+) 6.3	(+) 75.0	(+) 2.9	(+) 6.1
<b>Milk (Fresh)</b>					
1939	91.7	92.5	94.2	92.5	92.7
1940	94.2	94.2	95.0	95.0	94.6
%	(+) 2.7	(+) 1.8	(+) 0.8	(+) 2.7	(+) 2.0
<b>Veal Roast</b>					
1939	81.3	89.3	87.5	87.5	83.5
1940	88.5	90.3	91.8	92.3	90.8
%	(+) 8.9	(+) 1.1	(+) 4.9	(+) 5.5	(+) 5.0
<b>Beef Sirloin</b>					
1939	93.9	101.0	97.6	94.6	96.8
1940	104.5	104.8	102.2	101.2	103.2
%	(+) 11.3	(+) 3.3	(+) 4.7	(+) 7.0	(+) 6.6
<b>Beef Chuck</b>					
1939	96.2	106.3	104.4	100.6	101.9
1940	110.1	109.4	109.0	108.3	109.2
%	(+) 14.4	(+) 2.9	(+) 4.4	(+) 7.7	(+) 7.2
<b>Pork (Fresh)</b>					
1939	77.8	80.3	78.3	76.5	78.5
1940	77.5	78.3	78.1	73.9	77.1
%	(-) 0.4	(-) 2.5	(-) 0.9	(-) 3.4	(-) 1.8
<b>Lard</b>					
1939	45.7	54.3	55.9	52.7	52.1
1940	43.3	42.5	42.9	42.9	42.9
%	(-) 5.3	(-) 21.7	(-) 23.3	(-) 18.6	(-) 17.7
<b>Eggs</b>					
1939	70.1	81.2	89.5	88.5	82.3
1940	73.3	81.2	94.4	93.7	86.9
%	(+) 4.6	-	(+) 5.5	(+) 11.5	(+) 5.6

x Data supplied by the Internal Trade Branch, Dominion Bureau of Statistics.

than in the previous year. In other parts of the province September was extremely wet. At Nappan the precipitation for September amounted to 9.7 inches as compared with 2.6 inches for the same month last year. At Kentville the total precipitation for the September-December period amounted to 19.7 inches as compared with 12.4 inches for the same period in 1939.

The pastures were slightly below normal during the fall months, although the rating for September was 32 as compared with 75 in 1939. Following a fairly dry August there were frequent rains in late September and October, but they came rather late to be of much benefit. More feed was produced than in the previous year and this increase applied to all crops, so that farmers should have sufficient feed to meet their requirements for the winter months. Total tonnage for the principal field crops amounted to 899,000 compared with 824,000 tons in the preceding year.

PRODUCTION OF FEED CROPS

	Unit of Measure	1939	1940	Percentage Change
		(thousands)		
Hay and Clover	Ton	605	669	+ 10.6
Barley	Bushel	297	369	+ 24.2
Oats	Bushel	3,325	3,383	+ 1.7
Turnips	Cwt.	3,000	3,249	+ 8.3
Fodder Corn	Ton	6	7	+ 16.7
Total Feed	Ton	824.5	898.6	+ 9.0

The condition of the live stock going into winter quarters was about normal. Owing to the cold wet weather it was necessary to commence supplementary feeding about October 15. Milk cow numbers were reported by Dairy Correspondents to be slightly lower than those reported in the fall period of the previous year, but the percentage of milking cows increased from 82.8 in the autumn of 1939 to 84.1 per cent in the same period of 1940. The creamery butter output in the September-December period was down 6.6 per cent as compared with the fall production of 1939. There was also a reduction in the quantity of butter made on farms. Based on all cows in the herds of Dairy Correspondents, milk production declined from 14.7 pounds per day in the September-December period of 1939 to 14.4 pounds during the same period of 1940. Milk production per farm was also slightly lower than that of the preceding year, but the sales of fluid milk increased due, possibly, to the greater number of people engaged in industry.

Prices of farm products are rather low and there is a shortage of farm labour due to higher wages being paid in other lines of industry.

New Brunswick

This province received a plentiful supply of moisture during the fall months. At Fredericton the precipitation for September amounted to 7.9 inches which was the heaviest rainfall recorded at that station in 27 years. At Chatham the total precipitation for the fall months amounted to 19.5 inches as compared with 13.2 inches for the September-December period of 1939.



TABLE VIII - MONTHLY AVERAGE PERCENTAGE OF MILKING COWS TO TOTAL COWS IN DAIRY HERDS IN CANADA, BY PROVINCES, SEPTEMBER, OCTOBER, NOVEMBER AND DECEMBER, 1939 - 1940.

Province and Year		September	October	November	December	Average September to December
Prince Edward Island	1939	92.3	77.5	67.7	67.3	76.2
	1940	94.2	83.4	76.5	71.1	81.3
Nova Scotia	1939	87.0	84.1	80.0	80.0	82.8
	1940	93.1	81.9	73.8	81.7	84.1
New Brunswick	1939	81.7	82.8	76.7	74.4	78.9
	1940	84.3	81.4	84.1	70.7	80.1
Quebec	1939	93.1	90.3	78.4	67.5	82.4
	1940	93.3	89.0	79.2	67.8	82.4
Ontario	1939	81.2	78.7	79.2	72.0	77.8
	1940	85.9	80.9	77.9	71.3	79.0
Manitoba	1939	75.9	70.3	65.2	65.8	68.9
	1940	77.0	72.6	66.5	62.1	69.5
Saskatchewan	1939	74.7	71.3	69.4	62.6	69.5
	1940	72.3	69.3	67.8	62.4	68.1
Alberta	1939	71.2	68.0	63.9	56.3	64.3
	1940	62.3	60.6	57.0	57.8	59.5
British Columbia	1939	79.4	80.4	78.3	77.3	78.1
	1940	81.4	73.2	60.4	73.3	79.7
CANADA	1939	81.3	78.2	73.3	69.1	75.6
	1940	83.0	77.5	74.0	69.3	75.9

Pastures were only fair during the fall months, although the rating for September 1940 was 91 as compared with 81 in September 1939. Final estimates of feed crop production reveal a decline of 4 per cent, differing from the other Maritime provinces where increases of approximately 10 per cent were shown. Complete figures for 1939 and 1940 appear below:

PRODUCTION OF FEED CROPS

	Unit of Measure	1939	1940	Percentage Change
		(thousands)		
Hay and Clover	Ton	344	801	- 5.1
Barley	Bushel	459	526	+ 14.6
Oats	Bushel	6,671	6,402	- 4.0
Turnips	Cwt.	2,772	2,845	+ 2.6
Fodder Corn	Ton	9	6	- 33.3
<b>Total Feed</b>	<b>Ton</b>	<b>1,116</b>	<b>1,070.6</b>	<b>- 4.1</b>

Owing to the cold, wet September following a dry August it was necessary to commence supplementary feeding rather early. Live stock went into permanent quarters about October 10, and were reported to be in fair condition. The number of cows on farms remained about the same but the percentage milking increased from 78.9 in the fall months of 1939 to 80.1 per cent for the same period of 1940. Milk production per cow, based on all cows in the herds of Dairy Correspondents, revealed a slight increase during the fall of 1940 as compared with the same period of 1939, and there was also a slight increase in the milk production per farm. According to our Correspondents more butter was made on farms, but less milk was consumed in farm homes and there was less fed to live stock. Creamery butter production fell approximately 9 per cent in the fall months of 1940 as compared with the same months in 1939, while the cheese output registered a gain of 28.4 per cent.

Quebec

Precipitation was very irregular during the fall months. In September and October there was a general deficiency of about 30 per cent except along the Gaspé Peninsula and the north shore of the Gulf where it was approximately 50 per cent above normal in September. In November the rainfall was about 50 per cent above normal. At Lennoxville the precipitation was 5.8 inches in November while only 0.9 inches was recorded for the same month of 1939, and at Quebec there was 6.2 inches as compared with 1 inch in November 1939. There was a slight increase over last year in December.

Pastures were not as good as last year and for the province as a whole the rating for September 1940 was 91 as compared with 98 for the same month in 1939. The total feed on a tonnage basis was about 4 per cent greater than last

TABLE IX - MILK PRODUCTION PER COW IN POUNDS PER DAY, IN CANADA, BY PROVINCES, SEPTEMBER, OCTOBER, NOVEMBER AND DECEMBER, 1939-1940.

Province and Year	Based on all cows in herds of Dairy Correspondents				Based on cows actually milking in herds of Dairy Correspondents				
	Sept.	Oct.	Nov.	Dec.	Sept.	Oct.	Nov.	Dec.	
Prince Edward Island	1939	13.2	9.7	8.7	10.3	14.2	12.3	12.8	15.2
	1940	14.0	12.2	9.1	9.7	14.9	14.6	11.8	13.7
Nova Scotia	1939	15.4	15.1	14.8	13.7	17.7	17.9	18.5	17.1
	1940	16.9	13.5	12.4	14.9	14.2	16.4	13.1	18.3
New Brunswick	1939	13.3	12.3	11.5	11.6	16.3	14.9	14.8	15.6
	1940	13.7	11.9	13.3	10.5	16.3	14.6	15.5	14.9
Quebec	1939	16.9	14.8	11.1	9.6	18.2	16.3	14.2	14.2
	1940	13.5	14.0	11.3	9.3	17.7	15.8	14.0	13.7
Ontario	1939	18.8	16.7	15.3	17.9	23.1	21.2	19.3	20.6
	1940	19.3	16.2	14.1	17.6	22.5	20.0	18.1	19.9
Manitoba	1939	14.8	11.7	11.6	19.4	19.5	16.6	17.8	16.7
	1940	14.8	13.0	11.1	10.8	19.2	17.9	16.7	17.6
Saskatchewan	1939	14.1	11.8	10.8	9.7	18.9	16.4	15.6	15.5
	1940	14.2	12.2	10.9	10.1	19.6	17.4	16.2	16.2
Alberta	1939	14.7	14.4	13.1	11.1	20.7	21.1	20.4	19.6
	1940	12.6	12.0	11.7	12.0	20.2	19.8	20.5	20.8
British Columbia	1939	15.9	15.4	16.1	14.9	20.9	19.1	20.4	19.2
	1940	16.9	16.1	16.3	15.4	20.7	20.5	20.3	19.5
CANADA	1939	16.3	14.3	13.0	12.0	19.8	18.3	17.5	17.7
	1940	16.3	14.2	12.5	12.1	19.6	18.1	16.9	17.8

year, the largest increase being in alfalfa which shows a gain of 35 per cent. Crop production estimates with percentage changes are shown below:

PRODUCTION OF FEED CROPS

	Unit of Measure	1939	1940	Percentage Change
(thousands)				
Hay and Clover	Ton	4,917	5,162	+ 5.0
Barley	Bushel	4,055	7,228	- 5.6
Oats	<b>Bushel</b>	45,293	44,933	- 0.8
Turnips	Cwt.	6,197	6,185	- 0.2
Fodder Corn	Ton	559	540	- 3.4
Alfalfa	Ton	42	58	+ 34.9
<hr/>				
Total Feed	Ton	6,417.1	6,642.7	+ 3.6

There was very little change in the number of cows on farms and in the milk production per farm. Butter made on farms was reported as having declined about 26 per cent during the fall months as compared with the same period of the preceding year. Less milk was consumed in farm homes and there was also a decline in the amount fed to live stock. Creamery butter production amounting to 22.7 million pounds represented a decline of 14.6 per cent, while factory cheese registered an increase of approximately 60 per cent.

Ontario

With the exception of the eastern counties, Ontario had a plentiful supply of rain which created a large moisture reserve during the fall months. In eastern Ontario precipitation averaged from normal to 65 per cent below normal in September and about 35 per cent below normal in October. In southwestern Ontario extremely wet weather delayed fall work in many places. At London the precipitation for November 1940 amounted to 4.7 inches as compared with 0.84 inches in November 1939. The total precipitation for the September-December period at Chatham and Woodstock amounted to 9.4 and 14.7 inches respectively as compared with 5.1 and 8.0 inches for the same period in 1939.

Except in eastern Ontario, where due to a lack of moisture they were only about 63 per cent of normal, pastures were considerably better than average and the aftergrowth was excellent. The pasture rating for September 1940 was 101 as compared with 90 for the same month in 1939. In southwestern Ontario harvesting conditions were very unfavourable, and the quantity and quality of grain supplies were below average, a considerable portion of it being only fit for winter feed requirements. While some of the hay and feed grains have been of poor quality this has been partially offset by a 25 per cent increase in the alfalfa crop. The total tonnage for the principal feed crops was approximately the same as last year.

TABLE X - PRODUCTION OF CREAMERY BUTTER IN CANADA, BY PROVINCES,  
SEPTEMBER TO DECEMBER, 1939 and 1940.  
(In Thousands of Pounds).

Province	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		SEPTEMBER TO DECEMBER		
	1939	1940	1939	1940	1939	1940	1939	1940	1939	1940	Percentage Increase (+) Decrease (-)
Prince Edward Island	199	216	152	171	92	107	66	97	509	591	(+) 16.1
Nova Scotia	500	448	404	398	341	318	347	323	1,592	1,487	(-) 6.6
New Brunswick	452	398	269	245	134	126	92	95	947	864	(-) 8.8
Quebec	11,326	8,978	9,073	7,465	4,711	4,577	2,606	2,648	27,716	23,668	(-) 14.6
Ontario	8,738	8,205	7,195	7,266	5,659	5,086	5,049	4,647	26,641	25,204	(-) 5.4
Manitoba	2,931	2,746	2,153	2,287	1,289	1,446	1,080	1,339	7,453	7,818	(+) 4.9
Saskatchewan	2,603	2,573	1,984	2,237	1,269	1,418	1,020	1,287	6,876	7,515	(+) 9.3
Alberta	2,734	2,506	2,091	2,051	1,563	1,580	1,335	1,481	7,723	7,618	(-) 1.4
British Columbia	498	458	435	464	338	391	306	391	1,577	1,704	(+) 8.1
CANADA	29,981	26,528	23,756	22,584	15,396	15,049	11,901	12,308	81,034	76,469	(-) 5.6

TABLE XI - PRODUCTION OF FACTORY CHEESE IN CANADA, BY PROVINCES,  
SEPTEMBER TO DECEMBER, 1939 and 1940.  
(In Thousands of Pounds)

Province	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		SEPTEMBER TO DECEMBER		
	1939	1940	1939	1940	1939	1940	1939	1940	1939	1940	Percentage Increase (+) Decrease (-)
Prince Edward Island	80	115	31	84	-	10	-	3	111	212	(+) 91.0
New Brunswick	68	83	34	48	-	-	-	-	102	131	(+) 28.4
Quebec	4,012	6,072	2,499	4,459	522	935	317	323	7,350	11,789	(+) 60.4
Ontario	13,138	13,823	9,871	10,713	4,291	4,566	1,897	1,155	29,197	30,257	(+) 3.6
Manitoba	353	409	261	367	172	189	180	131	966	1,096	(+) 13.5
Saskatchewan	34	49	18	33	6	8	1	1	59	91	(+) 54.2
Alberta	159	282	122	230	103	163	102	142	486	807	(+) 66.0
British Columbia	60	49	43	50	42	47	32	44	177	190	(+) 7.3
CANADA	17,904	20,882	12,879	15,984	5,136	5,908	2,529	1,799	38,448	44,573	(+) 15.9

PRODUCTION OF FEED CROPS

	Unit of Measure	1939	1940	Percentage Change	
		(thousands)			
Hay and Clover	Ton	4,682	4,886	+	4.4
Barley	Bushel	16,600	15,868	-	4.4
Oats	Bushel	86,639	88,582	+	2.2
Turnips	Cwt.	21,036	20,545	-	2.3
Fodder Corn	Ton	3,545	2,817	-	20.5
Alfalfa	Ton	1,568	1,952	+	24.4
<b>Total Feed</b>	<b>Ton</b>	<b>12,718.0</b>	<b>12,568.9</b>	<b>-</b>	<b>1.1</b>

Live stock were in slightly better condition going into winter quarters than in the previous year and supplementary feeding commenced about October 20. Milk cow numbers were reported by Dairy Correspondents to be slightly higher than last year and the percentage of those milking increased from 77.8 in the September-December period of 1939 to 79.0 per cent in the same period of 1940. There was also a slight increase in the milk production per farm. Butter made on farms revealed an advance of approximately 10 per cent over that reported in the autumn period of 1939, and there was less milk consumed in farm homes, according to our Correspondents. The production of creamery butter amounted to 25.2 million pounds during the autumn months, a decline of 5.4 per cent as compared with the same period of 1939, while the factory cheese output registered an increase, the production of 30.3 million pounds being 3.6 per cent greater than that recorded during the September-December period of 1939.

Quite a number of dairy heifers will probably be retained on farms in eastern Ontario as there is a good demand for them across the border. Good grade beifers are selling from \$75 to \$100, while pure-breds are bringing from \$125 to \$175.

Manitoba

Manitoba had a long open fall free from heavy frosts. Rainfall was below normal in the northwestern parts of the province but generally speaking, the precipitation was greater than last year.

Pastures have been fairly good except in the districts northwest of Winnipeg. Although the dry weather which existed during the summer season caused a shortage in the hay and clover crop the pasture rating for September was 88 as compared with 89 for the same month last year. Farmers reported live stock to be in fair condition at the commencement of the feeding period in mid-October. The total tonnage of feed available is practically the same as last year. Fodder corn advanced 29 per cent and alfalfa about 19 per cent, and while there was a decrease of approximately 36 per cent in the turnip crop it is expected that there will be sufficient feed for local use.

TABLE XII - DAIRY PRODUCTS EXPORTED FROM CANADA,  
SEPTEMBER TO DECEMBER, 1939 and 1940.

	Butter	Cheese	Condensed Milk	Milk Powder	Evaporated Milk	Fresh Milk	Cream
	Lb.	Lb.	Lb.	Lb.	Lb.	Gal.	Gal.
September							
1939	233,800	19,660,400	97,700	861,500	2,448,100	352	130
1940	169,400	17,707,700	763,500	272,500	4,638,000	350	-
October							
1939	259,500	18,541,400	73,700	1,171,200	1,774,800	288	-
1940	144,800	15,289,400	1,355,700	290,100	3,068,200	84	3
November							
1939	248,800	18,822,400	107,100	642,800	3,707,800	256	-
1940	146,800	9,289,600	692,400	378,600	5,018,600	421	4
December							
1939	104,600	3,018,800	80,700	197,700	1,697,300	224	-
1940	115,700	3,969,700	779,800	292,500	4,971,100	235	-
September to December							
1939	846,700	50,043,000	359,200	2,873,200	9,628,000	1,120	130
1940	576,700	46,256,400	3,591,400	1,233,700	17,695,900	1,090	7

TABLE XIII - DAIRY PRODUCTS IMPORTED INTO CANADA,  
SEPTEMBER TO DECEMBER, 1939 and 1940.

	Butter	Cheese	Condensed Milk	Milk Powder	Casein	Fresh Milk and Cream
	Lb.	Lb.	Lb.	Lb.	Lb.	Gal.
September						
1939	619	69,483	104	194	51,677	220
1940	486	18,799	-	455	220,859	103
October						
1939	51	174,271	314	305	49,631	31
1940	169	15,908	466	5,288	73,944	96
November						
1939	88	295,058	-	3,346	85,108	15
1940	303	39,246	144	348	196,860	20
December						
1939	167	138,918	22	490	174,628	21
1940	395	23,259	795	413	80,674	35
September to December						
1939	925	677,730	440	4,335	361,044	287
1940	1,353	97,212	1,405	6,504	572,337	254

PRODUCTION OF FEED CROPS

	Unit of Measure	1939	1940	Percentage Change
		(thousands)		
Hay and Clover	Ton	706	610	- 13.6
Barley	Bushel	28,000	28,500	+ 1.8
Oats	Bushel	34,500	34,500	-
Turnips	Cwt.	637	409	- 35.8
Fodder Corn	Ton	270	349	+ 29.2
Alfalfa	Ton	132	157	+ 18.9
<b>Total Feed</b>	<b>Ton</b>	<b>2,397.3</b>	<b>2,406.9</b>	<b>+ 0.4</b>

The number of cows on farms was slightly lower than in the previous year but the percentage of those milking had increased from 68.9 per cent in the September-December period of 1939 to 69.5 per cent in the same period of 1940. According to Dairy Correspondents less butter was made on farms than in the previous autumn period. The production of creamery butter amounted to approximately 7.8 million pounds, an increase of 4.9 per cent, and the cheese output also advanced from 966,000 pounds to 1,096,000 pounds, a gain of approximately 13.5 per cent.

Some of the Dairy Observers state that the unsatisfactory returns from wheat may have a tendency to increase the number of cows kept for milk production. Military camps have increased the demand for fluid milk in local areas.

Saskatchewan

In September there was a general deficiency in precipitation except in the district north from Regina and Indian Head where excesses due to thunder storms occurred. In October two or three times the normal precipitation fell along the north branch of the Saskatchewan River and south from the Qu'Appelle River to the Upper Souris River. At Indian Head the total precipitation for the September-December period of 1940 amounted to 6.8 inches as compared with 2.1 inches for the same months in the previous year.

Pasture conditions varied greatly in Saskatchewan. At Weyburn and Indian Head they were excellent while at Scott and Moose Jaw they were very poor. Pasture rating for the province as a whole was 81 which was the same as the corresponding month last year. The cattle were in average condition and supplementary feeding commenced about October 20. Although there is approximately 10 per cent less feed than there was last year it is thought that farmers will have sufficient for their requirements. The greatest reduction was in the hay and clover crop which shows a decline of 32 per cent from last year.



TABLE XIV - STOCKS OF BUTTER+, CHEESE AND CONCENTRATED MILK PRODUCTS IN CANADA,  
BY MONTHS, SEPTEMBER TO DECEMBER, 1939 and 1940.

Product	September 1	October 1	November 1	December 1
	Lb.	Lb.	Lb.	Lb.
Creamery Butter	55,344,593			
1939	55,344,593	57,617,955	56,671,780	49,877,463
1940	58,947,172	59,136,385	52,174,256	42,279,476
Dairy Butter				
1939	292,567	234,070	229,477	136,042
1940	524,109	547,860	419,489	401,566
Cheese				
1939	53,298,042	52,350,502	41,208,139	28,175,218
1940	32,546,864	32,069,240	32,698,303	27,444,879
Concentrated Whole Milk Products:				
Condensed Milk				
1939	653,849	671,885	835,687	537,283
1940	1,378,708	867,416	1,057,825	1,156,000
Evaporated Milk				
1939	8,332,737	7,578,424	7,516,900	8,796,658
1940	29,472,147	27,511,786	26,489,657	19,227,752
Milk Powder				
1939	1,593,975	786,958	674,788	438,112
1940	1,568,674	1,714,517	1,405,851	1,092,447
Total Whole Milk Products				
1939	10,584,621	9,041,354	9,062,375	9,773,929
1940	32,419,523	30,093,719	28,953,333	21,476,199
Concentrated Milk By-Products:				
Condensed Skim Milk				
1939	228,430	163,741	152,622	124,266
1940	251,557	229,576	138,085	126,488
Evaporated Skim Milk				
1939	4,139	3,680	425	1,530
1940	/	/	/	/
Skim Milk Powder				
1939	5,431,723	4,513,695	3,812,910	3,373,239
1940	4,405,165	4,132,261	4,217,769	3,463,567
Total By-Products				
1939	7,222,368	5,906,587	4,919,933	4,355,538
1940	5,553,578	5,166,374	5,376,807	4,595,669

+ Butter stocks include transit stocks as well as stocks in storage.  
/ Included in Condensed Skim Milk.

PRODUCTION OF FEED CROPS

	Unit of Measure	1939	1940	Percentage Change	
		(thousands)			
Hay and Clover	Tons	445	301	-	32.4
Barley	Bushel	26,000	26,000	-	-
Oats	Bushel	112,000	103,000	-	8.0
Turnips	Cwt.	174	172	-	1.2
Fodder Corn	Ton	38	37	-	2.6
Alfalfa	Ton	57	48	-	15.3
<hr/>					
Total Feed	Ton	3,155	2,347	-	9.8

There was a slight increase in the number of cows on farms of Dairy Correspondents, and although the percentage of milking cows fell from 69.5 per cent in the September-December period of 1939 to 68.1 per cent in the same months of 1940, the milk production per farm increased almost 7 per cent. Less milk was consumed on farms, while the amount fed to live stock was practically the same. The creamery butter production for the autumn period amounted to 7.5 million pounds, an increase of 9.3 per cent over the same months of the previous year, and the cheese output amounting to 91,000 pounds, represented a gain of 54.2 per cent as compared with the same period last year.

Butter-fat prices have increased about 10 per cent, which is very encouraging to farmers, but difficulty in obtaining skilled farm help and the increased cost of production partially offset this advantage.

Alberta

Southern Alberta had very beneficial rains during the fall months and the precipitation was well above normal, the heaviest rainfall occurring in the region of the Bow River. There was a decrease from normal of about 35 per cent in the northern part of the province. At Beaverlodge the precipitation for the fall months amounted to 3.1 inches as compared with 7.7 inches for the same period last year, while at Cardston, the reverse situation existed, 8.7 inches being reported as compared with 4.7 inches in the autumn period of 1939.

Pastures were very good except around Grand Prairie and Beaverlodge, and for the province as a whole the rating was 94 as compared with 80 for the corresponding period of last year. There was a large increase in the oats and barley crop, the increase in barley amounting to about 35 million bushels and the total feed on a tonnage basis was approximately 28 per cent greater than in 1939. In the district south of Lethbridge where sugar beets are grown to supply the sugar factory in that area, beet pulp has been utilized to feed dairy cattle. It is reported that the dairies in the city of Lethbridge have now placed a ban on the use of beet by-products by whole milk producers, and

TABLE XV - WEATHER RECORDS REPORTED FROM REPRESENTATIVE STATIONS IN EASTERN CANADA, SEPTEMBER TO DECEMBER, 1939 AND 1940.

Stations and Year	INCHES OF PRECIPITATION					MEAN TEMPERATURE					HOURS OF SUNSHINE				
	Sept.	Oct.	Nov.	Dec.	Total	Sept.	Oct.	Nov.	Dec.	Average	Sept.	Oct.	Nov.	Dec.	Total
Charlottetown, 1939	4.0	8.8	1.4	4.0	18.2	58	48	35	27	42	188	93	117	53	451
	1940	8.0	3.4	5.3	5.3	22.0	59	45	37	23	41	146	141	60	74
Kentville 1939	2.5	5.0	1.1	3.8	12.4	58	49	34	27	42	159	95	121	53	428
	1940	6.7	2.7	5.5	4.8	19.7	59	44	38	26	42	150	143	66	48
Nappan 1939	2.6	6.7	1.2	3.1	13.6	57	46	33	25	40	148	92	130	63	433
	1940	9.7	2.4	4.8	4.1	21.0	57	42	36	22	39	122	131	76	82
Sydney 1939	2.8	5.6	2.1	4.4	14.9	57	49	37	32	43	-	-	-	-	-
	1940	5.3	2.8	3.2	6.1	17.4	60	45	38	28	43	-	-	-	-
Thatham, N.B. 1939	4.7	5.5	0.9	2.1	13.2	55	44	31	22	36	-	-	-	-	-
	1940	10.1	1.4	5.7	2.3	19.5	55	41	32	14	35	-	-	-	-
Fredericton 1939	4.2	6.0	0.9	3.4	14.5	56	45	31	21	38	129	116	138	72	455
	1940	7.9	1.5	6.3	3.3	19.0	56	42	33	13	36	123	161	88	72
Gaspe 1939	6.2	2.1	1.0	0.9	10.2	50	40	31	22	36	-	-	-	-	-
	1940	6.4	2.1	6.3	2.2	17.0	54	40	32	13	35	-	-	-	-
Lennoxville 1939	5.6	4.0	0.9	3.4	13.9	55	45	30	20	37	150	104	84	43	381
	1940	2.9	2.7	5.8	4.5	15.9	56	42	33	18	37	119	149	53	63
Quebec 1939	5.3	4.8	1.0	2.8	13.9	56	45	30	20	38	131	102	80	60	373
	1940	2.6	3.3	6.2	3.8	15.9	57	43	31	17	37	130	147	52	80
Sherbrooke 1939	5.2	4.0	0.8	3.2	13.2	56	46	30	20	38	175	119	102	45	441
	1940	3.3	2.4	5.4	4.0	15.1	57	43	33	19	38	137	156	54	67
North Bay 1939	1.8	3.9	1.2	1.6	8.5	55	43	28	20	36	-	-	-	-	-
	1940	3.7	1.6	3.7	2.8	11.8	57	41	29	18	36	-	-	-	-
Ottawa 1939	2.9	3.0	0.7	3.2	9.8	56	44	30	20	37	176	113	137	58	484
	1940	1.2	1.6	3.8	4.5	11.1	58	43	31	17	37	183	147	67	61
Peterboro 1939	2.7	2.0	1.0	2.1	7.8	61	48	34	27	42	-	-	-	-	-
	1940	3.7	2.0	4.3	3.5	13.5	60	46	35	24	41	-	-	-	-
Kapuskasing 1939	3.3	1.5	0.2	2.4	7.4	50	36	26	15	32	109	44	75	43	271
	1940	2.5	0.8	2.5	2.7	8.5	54	39	20	10	31	154	98	29	50
Chatham, Ont. 1939	1.8	1.7	0.6	1.0	5.1	65	53	38	33	47	175	149	91	42	457
	1940	1.5	2.0	3.1	2.8	9.4	62	52	38	33	46	158	124	56	45
Woodstock, Ont. 1939	2.0	3.8	1.0	1.2	8.0	61	48	35	30	43	179	158	108	60	505
	1940	3.8	2.0	4.6	4.3	14.7	59	46	36	27	42	178	156	60	57

shippers of table cream have also been restricted in the use of these products because of their effect on flavour.

PRODUCTION OF FEED CROPS

	Unit of Measure	1939	1940	Percentage Change
		(thousands)		
Hay and Clover	Ton	539	638	+ 12.1
Barley	Bushel	27,000	34,500	+ 27.8
Oats	Bushel	85,000	114,000	+ 34.1
Turnips	Cwt.	270	302	+ 11.8
Fodder Corn	Ton	14	11	- 21.4
Alfalfa	Ton	207	272	+ 31.4
<b>Total Feed</b>	<b>Ton</b>	<b>2,896.5</b>	<b>3,702.1</b>	<b>+ 27.8</b>

Farmers commenced feeding their cattle about October 20, the animals going into winter quarters in about the same condition as last year. There were more cows on farms but the percentage milking declined from 64.3 in the September-December period of 1939 to 59.5 per cent in the same period of 1940. Less milk was produced on farms and the milk production per cow, based on all cows in the herds of Dairy Correspondents, was 12.1 pounds per day as compared with 13.3 pounds in the autumn period of 1939. According to Correspondents, butter made on farms showed a decrease of about 13 per cent in the September-December period of 1940 as compared with the autumn period of last year. Creamery butter production amounted to 7.6 thousand pounds in the fall period of 1940 as compared with 6.9 thousand pounds in the same period of 1939, while factory cheese increased approximately 66 per cent.

British Columbia

In September the precipitation showed a deficiency of about 40 per cent except in the Okanagan and Fraser Valleys where it was about 50 per cent above normal. In the three fall months, however, the precipitation for the province as a whole was less than that recorded during the autumn period of 1939. At Kamloops the total precipitation for the September-December period amounted to only 1.8 inches as compared with 4.7 inches for the same period last year.

Pastures were good on the lower mainland but variable elsewhere. September and part of October were somewhat dry although there was plenty of rain later on and there was a fair amount of moisture reserve. The pasture rating for September was 88 which was the same as last fall. While the final estimate of feed crops showed an increase of 19 per cent in the barley crop, the total amount of feed on a tonnage basis registered a slight reduction from last year.

TABLE XVI - WEATHER RECORDS REPORTED FROM REPRESENTATIVE STATIONS IN WESTERN CANADA, SEPTEMBER TO DECEMBER, 1939 AND 1940.

Station and Year	INCHES OF PRECIPITATION					MEAN TEMPERATURE					HOURS OF SUNSHINE					
	Sept.	Oct.	Nov.	Dec.	Total	Sept.	Oct.	Nov.	Dec.	Average	Sept.	Oct.	Nov.	Dec.	Total	
Brandon	1939	1.5	0.4	0.0	0.3	2.1	55	36	30	22	36	195	103	139	70	507
	1940	0.8	0.9	0.7	1.2	3.6	60	47	18	11	34	228	131	83	72	514
Morden	1939	1.1	0.4	0.0	0.2	1.7	58	38	34	25	39	196	91	144	72	503
	1940	2.2	1.0	1.0	1.0	5.2	62	49	21	15	37	233	142	71	69	515
Dauphin	1939	1.9	0.5	0.2	0.4	3.0	55	36	34	19	36	-	-	-	-	-
	1940	0.2	2.2	0.9	0.5	3.8	62	48	19	12	35	-	-	-	-	-
Battleford	1939	0.2	0.4	0.5	1.2	2.3	53	37	28	18	34	-	-	-	-	-
	1940	0.2	1.9	1.1	0.4	3.6	58	44	12	8	30	-	-	-	-	-
Prince Albert	1939	0.9	0.7	0.9	1.7	4.2	52	34	26	17	32	-	-	-	-	-
	1940	1.0	1.9	2.0	1.4	6.3	59	43	14	8	31	-	123	56	67	-
Saskatoon	1939	0.7	0.6	0.5	1.3	3.1	53	37	32	20	35	187	148	142	81	558
	1940	0.6	1.2	1.9	0.5	4.2	59	46	12	10	32	220	159	69	90	538
Indian Head	1939	0.5	0.6	0.1	0.9	2.1	53	35	32	21	35	180	111	103	74	468
	1940	1.7	3.2	1.1	0.8	6.8	60	48	16	13	34	-	135	-	81	-
Swift Current	1939	0.3	0.9	0.0	0.6	1.8	54	37	38	28	39	215	138	176	99	628
	1940	1.6	0.7	0.6	0.3	3.2	60	49	16	22	37	181	155	83	103	522
Beaverlodge	1939	2.0	3.2	1.2	1.3	7.7	49	34	34	24	35	166	133	84	52	435
	1940	0.5	0.6	1.5	0.5	3.1	56	42	15	17	32	225	164	70	69	528
Edmonton	1939	2.1	2.2	0.5	0.4	5.2	50	34	35	25	36	161	101	116	84	462
	1940	0.2	1.9	1.5	0.8	4.4	57	44	15	15	32	228	144	63	67	500
Calgary	1939	1.5	3.0	0.2	0.1	4.8	52	36	40	30	39	147	140	135	90	512
	1940	2.9	1.6	0.5	0.3	5.3	56	45	19	26	36	185	141	87	98	511
Cardston	1939	3.3	1.1	0.2	0.1	4.7	55	41	44	33	43	-	-	-	-	-
	1940	5.3	2.2	0.8	0.4	8.7	58	48	22	28	39	-	-	-	-	-
Victoria	1939	0.3	3.3	4.2	5.5	13.3	58	51	48	46	51	227	130	63	54	474
	1940	2.7	2.4	3.2	3.3	11.6	59	53	43	43	49	194	109	83	79	465
Prince George	1939	2.2	2.5	3.2	3.1	11.0	51	41	39	32	41	134	96	48	26	304
	1940	1.4	2.3	2.5	1.7	7.9	55	43	20	25	36	196	129	34	34	393
Agassiz	1939	1.5	8.4	8.4	12.6	30.9	60	51	48	44	51	147	81	42	24	294
	1940	1.8	7.7	4.3	7.0	20.8	64	54	40	41	49	144	80	60	51	335
Kamloops	1939	0.8	2.7	0.5	0.7	4.7	60	43	43	39	46	240	138	75	63	517
	1940	0.2	0.5	0.7	0.4	1.8	64	51	27	32	43	248	120	82	66	616

PRODUCTION OF FEED CROPS

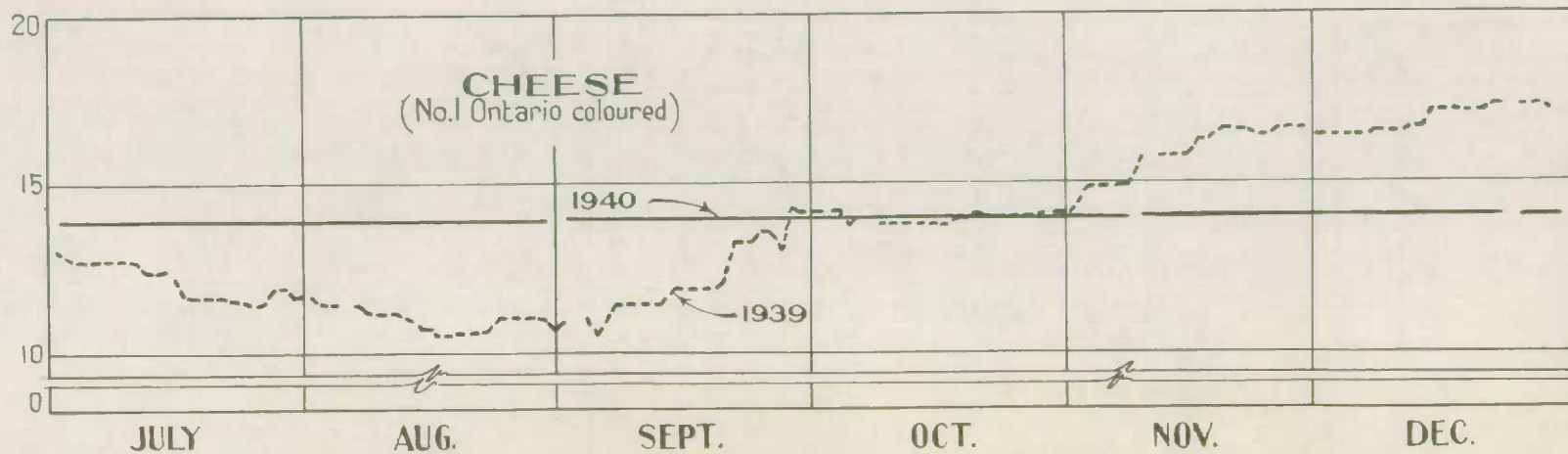
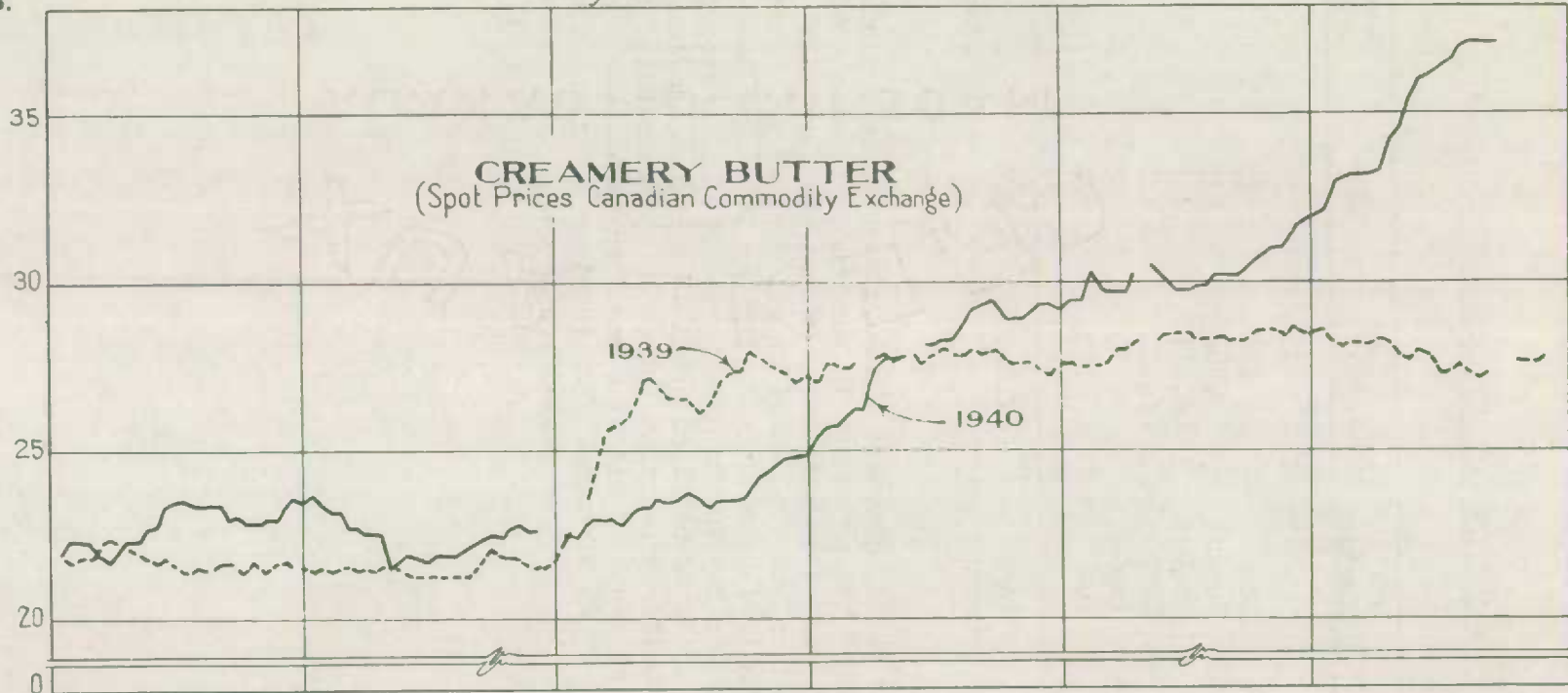
	Unit of Measure	1939	1940	Percentage Change
		(thousands)		
Hay and Clover	Ton	315	317	+ 0.6
Barley	Bushel	484	576	+ 19.0
Oats	Bushel	6,111	5,440	- 11.0
Turnips	Cwt.	1,120	1,133	+ 1.2
Fodder Corn	Ton	70	66	- 9.4
Alfalfa	Ton	160	154	- 3.8
Total Feed	Ton	716.5	699.9	- 2.3

Milk cows went into winter quarters about October 15 in somewhat better condition than last year. There was no change in the number of cows on farms although the percentage of milking cows increased. There was more milk produced on farms, and the milk production per cow, based on all cows in the herds of Dairy Correspondents, increased from 15.6 pounds per day in the September-December period of 1939 to 16.2 pounds per day in the same period of 1940. According to Dairy Observers, butter made on farms declined about 10 per cent and less milk was fed to live stock. Creamery butter production increased approximately 8 per cent in the autumn period of 1940 as compared with the same months of 1939, and cheese production registered a gain of 7.3 per cent. The increase in butter-fat prices has helped the farmer although the cost of production is quite high and there is a shortage of skilled farm help.

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