32-D-22 194

Published by Authority of the Hon. James A. MacKinnon, M.P.,
Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS - CANADA AGRICULTURAL BRANCH

Price: 10 cents

Dominion Statistician: Acting Chief, Agricultural Branch: Statistician:

R. H. Coats, LL.D., F.R.S.C. C. F. Wilson, Ph.D.

J. B. Rutherford, M.Sc.

Ottawa, October 30, 1940.

#### FEED SUPPLIES FOR 1940-41

### Summary

Feed supplies in Canada for 1940-41 are generally adequate. In spite of a 10 per cent increase in numbers of grain-consuming animals, a somewhat larger production of feed grains in 1940 together with large stocks carried into the 1940-41 season will provide about .70 tons of feed grains per animal unit as compared with .75 tons for 1939-40. Although the supply per animal is lower than in 1939-40 a probable reduction in exports of feed grains during the 1940-41 season will leave sufficient feed to carry Canadian live stock through the winter. In addition to the feed grain supply, large quantities of wheat stored on western farms will provide a reserve against feed shortages in the Prairie areas. On the other hand, it is probable that feed grain supplies in eastern Canada will need to be supplemented by somewhat larger than usual shipments from the west. In particular, south-western Ontario will import larger quantities of feed grains due to the poor quality and difficulty in harvesting the 1940 crops. Furthermore, feed grain production in eastern Canada generally has not kept pace with the increase in live stock production and it is probable that feed grain prices will tend to increase during the season of 1940-41.

Prospects are that the millfeed situation will be better during the 1940-41 season. Exports to the United States may be somewhat smaller than last season, leaving greater quantities of by-product feeds for use in Canada.

The fodder situation is quite normal with no large areas reporting shortages. In view of a satisfactory hay crop in the north-eastern Atlantic States it is not expected that the export demand for hay during the 1940-41 season will be as large as during 1939-40. Hay prices in eastern Canada have shown a tendency to decline and no great change is expected during the remainder of the season apart from the usual seasonal movement.

Further increases in Canadian live stock production are expected during the 1940-41 season with feed prices remaining low relative to live stock prices. Total numbers of live stock at June 1, 1941 will likely be the greatest on record. Although feed supplies are sufficient to carry the present live stock population further increases in numbers without an expansion of feed grain acreages will make necessary the importation of greater quantities of feed.

## FEED CRAINS

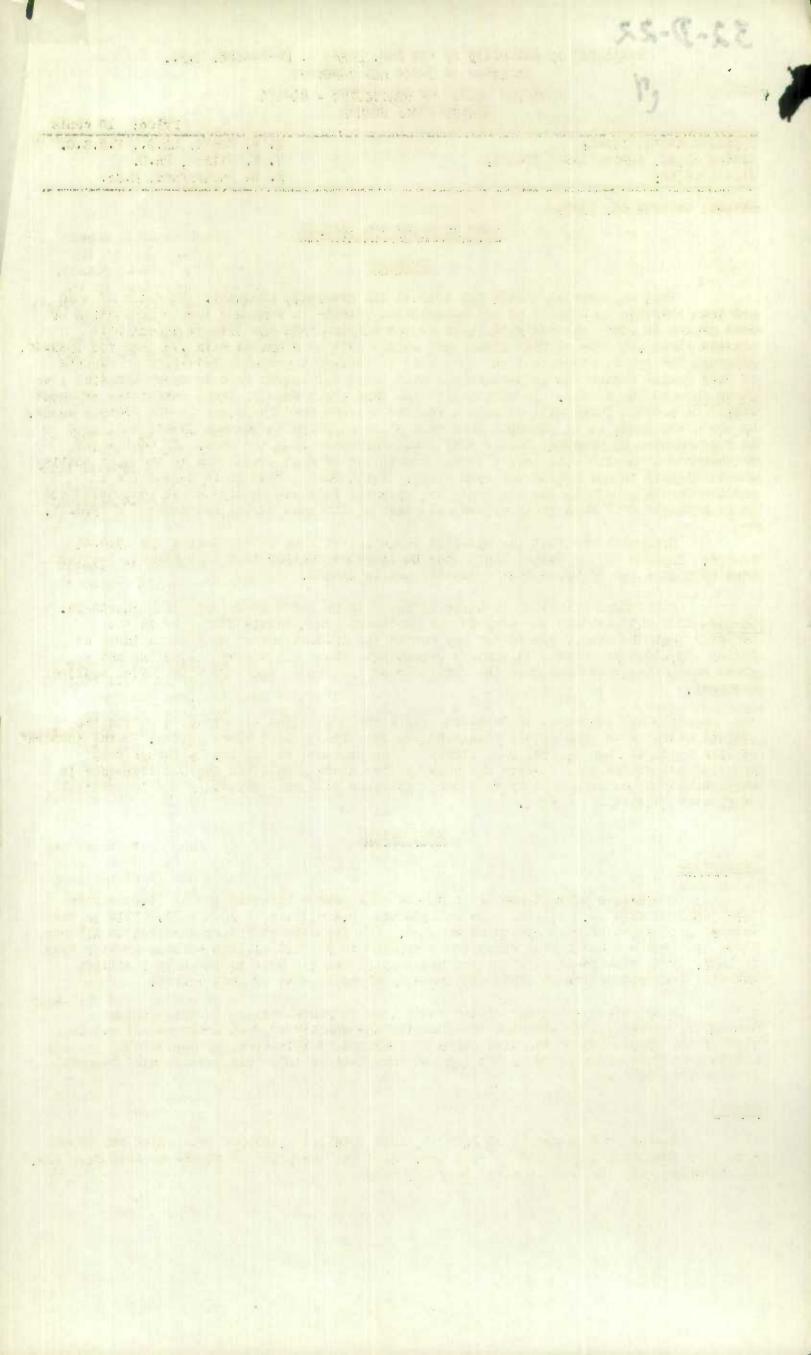
#### Production

Production of feed grains in Canada this season is estimated at 11.3 million tons compared with 10.9 million tons in 1939 and 10.4 million tons in 1938. This is the largest production of feed grains since 1930. The increase this year occurred in Alberta, where the 1940 oat and barley crops are estimated to be 36.5 million bushels greater than in 1939. With the exception of Saskatchewan where the oat crop is lower by 9 million bushels, feed production in other provinces is close to that of last season.

Very unfavourable harvesting conditions in south-western Ontario during September, however, have affected the quantity and quality of feed grain supplies. In view of the importance of the live stock enterprises in this area, a considerable shortage of feed is expected to develop and importations into this section will be much greater than usual.

#### Stocks

Stocks of feed grains at July 31, 1940 totalled 1,122,000 tons which was 70,000 tons less than at the same date a year ago. With the exception of stocks at July 31, 1939, the holdings were the largest since July 31, 1933.



## Total Supplies

Total supplies of feed grains in Canada for the 1940-41 season amount to 12.4 million tens compared with 12.1 million tens last year and 10.9 million tens in the 1938-39 season. These supplies are the largest recorded since the season of 1930-31 when 13.7 million tens were available.

## Supplies in Relation to Grain-Consuming Animals

Numbers of grain-consuming animals on farms during the 1940-41 feeding season are estimated as equivalent to 17.7 million grain-consuming animal units. This is the largest number on record and is 1.6 million units higher than during the 1939-40 season. The increase is due to the gain in hog production and most of it has taken place in the Prairie Provinces. The supply of feed grains per grain-consuming animal during the 1940-41 season is estimated at .70 tons as compared with .75 tons in the 1939-40 season and an average of .65 tons during the 10-year period 1929-30 to 1938-39. Supplies per grain-consuming animal for the 1940-41 season are smaller because of the great increase in live stock production.

## Exports and Imports

The increase in feed grain production during 1939 is reflected in an increase in exports which rose from 694,000 tons in 1938-39 to 840,000 tons in 1939-40. In view of the large live stock population in Canada, it is not expected that exports in 1940-41 will be greater than during last season. Exports of oats increased from 9.6 million bushels in 1938-39 to 15.8 million bushels in 1939-40. Barley exports for 1939-40 were 4.4 million bushels lower. The loss of markets for feed grains in Europe will probably result in smaller exports of these crops during 1940-41.

Imports during the 1939-40 season amounted to 243,000 tons which is the lowest since 1935-36. In view of the greater requirements for feed during the coming season it is possible that somewhat greater imports will be necessary during 1940-41.

### Prices

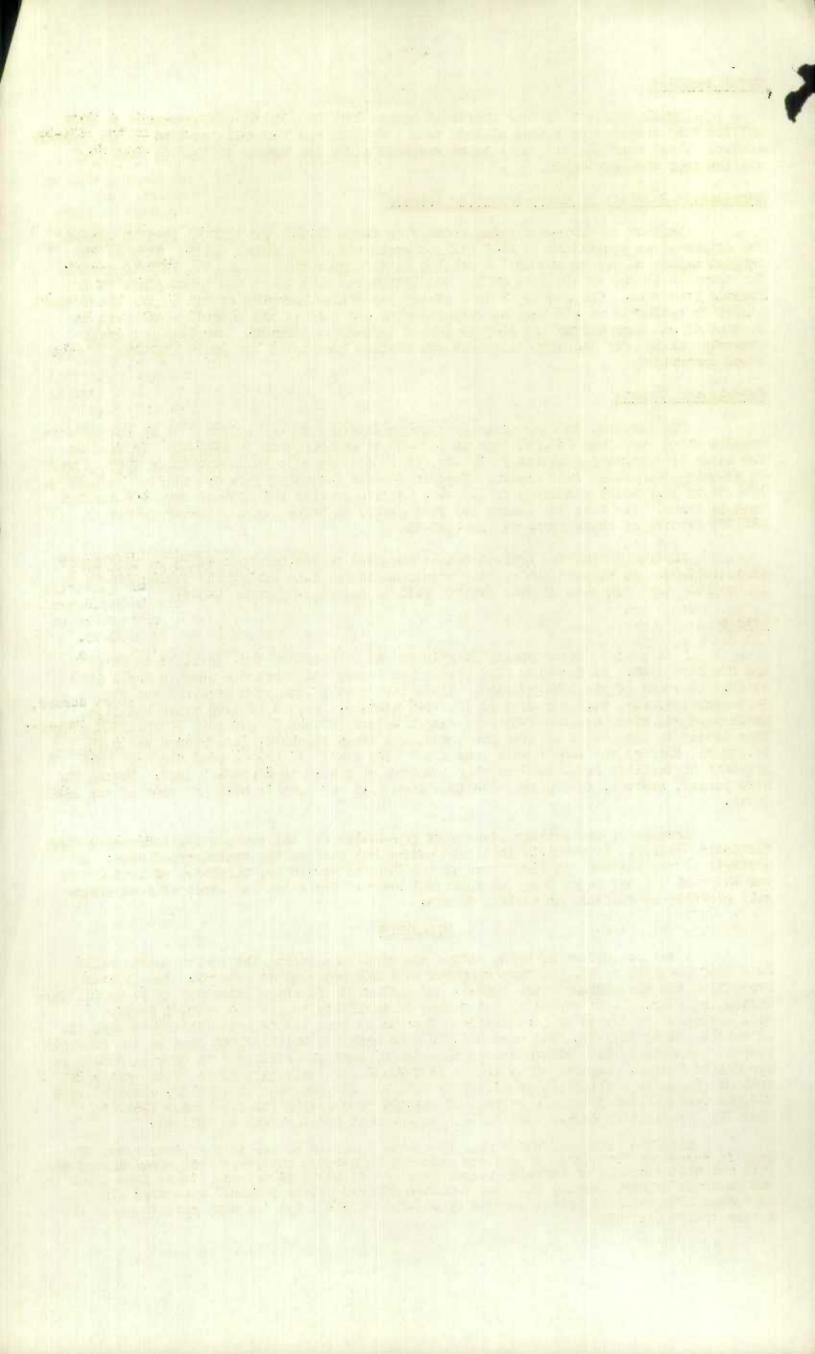
Feed prices, after rising sharply at the outbreak of war, declined in October and November 1939. In December 1939 prices rose again and reached a peak in April 1940 at 80.4 per cent of the 1926 average. Since then feed prices have declined and for September 1940 were 64.2 per cent of the 1926 average. Prices of live stock and live stock products since October 1939 have ranged between 83 and 87 per cent of the 1926 average. In relation to the prices of live stock and live stock products, feed prices are more favourable than at the same time a year ago. Live stock and animal products were 85.8 per cent of the 1926 level in September compared with 81.8 in September 1939. During the same period, however, feed prices declined from 71.2 per cent to 64.2 per cent of the 1926 level.

Because of the greater live stock population and the prospective increase during the coming year, it is possible that feed prices may rise as the season progresses. As a result of the increase in live stock in the Prairie Provinces, surpluses of feed grains for shipment may not be as large as in former years. Increases in prices of feed grains will probably be greatest in eastern Canada.

#### MILLFEEDS

Total production of bran, shorts and middlings during the twelve months ended July 1940 amounted to 657,000 tons compared with 558,000 tons in 1938-39. The 1939-40 production was the highest since 1928-29 and reflected the sharp increases in flour millings during the year. It is expected that output of millfeeds during the 1940-41 season will approach the levels of last season. Exports of bran shorts and middlings during the 12 months ending July 31, 1940 were 276,600 tons compared with 173,300 tons in the previous season. Exports in the 1939-40 season were the highest recorded, due to unusual demand in the United States. Imports of millfeeds in 1939-40 were only half those of the previous season. Domestic utilization of millfeeds totalled 381,000 tons in 1939-40, compared with 386,000 tons in 1938-39 and an average of 365,000 tons during the five years 1933-34 to 1937-38. Utilization during 1940-41 will be somewhat greater than in 1939-40.

Millfood prices advanced sharply on the outbreak of war in September 1939. A drop in prices of from \$2 to \$3 per ton occurred in October but during the remainder of the fall and winter months of 1939-40, prices remained at \$3 to \$8 per ton higher than prior to the outbreak of war. During the summer months of 1940 prices declined slightly. In September 1940 millfeed prices dropped by \$1.00 to \$1.25 a ton and were back to about the levels of October 1939.



#### HAY AND FODDER CROPS

## Production

Hay and fodder production in 1940 will provide adequate supplies of feed for the 1940-41 season. Total production of 21,793,000 tons is 197,000 tons greater than in 1939. Hay and clover production in 1940 is lower in New Brunswick, Manitoba, and Saskatchewan where yields were reduced below those of 1939. However, supplies in these provinces will be about sufficient for local needs. An exceptionally good crop of alfalfa was harvested in Ontario, the 1940 production being nearly 400,000 tons greater than last season's outturn. Hay and fodder production for 1940 amounted to 2.04 tons per hay-consuming animal, which is slightly less than the figure of 2.05 tons in 1939.

#### Exports

Hay exports during the past season amounted to 101,000 tons compared with 88,000 tons in the 1938-39 season and only 53,000 tons in the 1937-38 season. The heavier 1939-40 exports were the result of a short hay crop in the north-east Atlantic states. Exports to the United States rose from 33,000 tons in 1938-39 to 75,000 tons in 1939-40. On the other hand, exports of hay to the United Kingdom dropped from 40,000 tons to 11,000 tons in the past season. For the 1940-41 season, hay exports are likely to be smaller than during the past two seasons, and may be less than in 1937-38. Adequate fodder supplies are available in the north-eastern United States, and the use of ocean shipping space for more essential supplies will restrict exports of hay to the United Kingdom.

### Pricos

Hay prices in Eastern Canada during the past season reflected the increase in demand from the United States. No. 2 baled Timothy hay at Montreal advanced from \$8 a ton in August 1939 to a high of \$13 a ton in May 1940. For September 1940, the quotation averaged \$10 a ton. The advance in prices at Toronto was not as great, and in September 1940, prices were from 40 to 50 cents a ton lower than in September 1939. Hay prices in the Prairic Provinces remained fairly steady during the winter and spring of 1939-40. In September 1940, hay prices received by farmers were slightly lower than those of a year ago.

In view of adequate supplies in Canada and the probable decline in export demand, hay prices are not expected to rise a great deal during the 1940-41 season. Demand in Canada may be somewhat greater because of the increase in hay-consuming animals. During the next 12 months further increases are expected in numbers of horses, cattle and sheep.

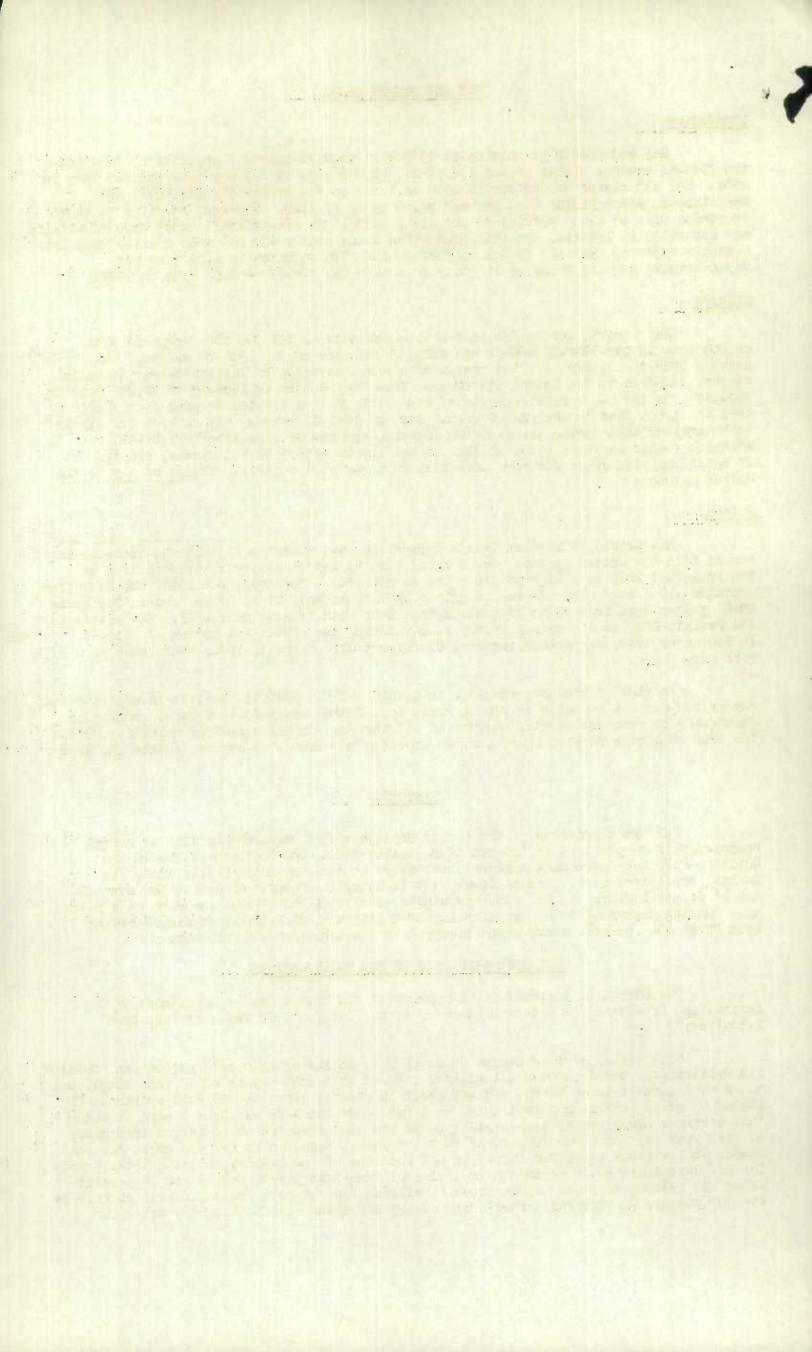
# PASTURES

Pasture conditions at the end of September 1940 were 93 per cent of normal compared with 89 per cent at the end of September 1939. Pasture conditions in the Maritime Provinces were much improved over those at the end of September 1939. In Quebec, conditions were 7 points lower, but in Ontario and Alberta conditions were 11 and 14 points higher. In the other provinces conditions were about the same as a year ago. During September 1940, pastures improved slightly, The condition figure rising from 92 to 93. Notable improvement occurred in Manitoba and Saskatchewan.

## THE FEED SITUATION IN THE UNITED STATES

The Bureau of Agricultural Economics of the United States Department of Agriculture presented the following summary in the October 1940 issue of "The Feed Situation:"

"The supply of feed grains on October 1, including 1940 corn production, totaled 113 million tons compared with 111 million tons on that date a year ago. This supply was the second largest in 20 years, and was about 12 percent above the 1928-32 average. The number of grain-consuming animal units on farms is expected to be about 5 percent below this average. Supplies of high-protein feeds are also expected to be larger than those of last year and more than 50 percent above average. Supplies of hay are ample for the number of livestock to be fed in nearly all sections of the country, and the total supply for the United States is about 3 percent larger than last year's supply and 15 percent above the 1928-32 average. Since about 13 million tons of corn are under seal or held by the Government, the October 1 feed grain supply not under seal is slightly below the



1928-38 average.

Prices of corn and other feed grains have been supported by the Corn Loan Program during the past year. The average price of corn in 1940-41 is expected to be somewhat higher than in 1939-40, whereas prices of oats and barley may average a little lower. Present indications are that the loan rate may be about 61 cents per bushel on 1940 corn. During most of the past year, livestock prices have been relatively low compared with feed prices, and this has tended to discourage production of livestock and livestock products. The position of the livestock feeder is expected to improve during 1941.

"The total acreage of feed grains in 1941 may not be changed substantially from that of 1940 if the Agricultural Adjustment Program continues on about the present basis. Corn yields, however, will be somewhat higher than in the predrought period if weather conditions are about average, as a result of the large acreage of hybrid corn.

"Exports of feed grains during 1940-11 are expected to be of little significance."

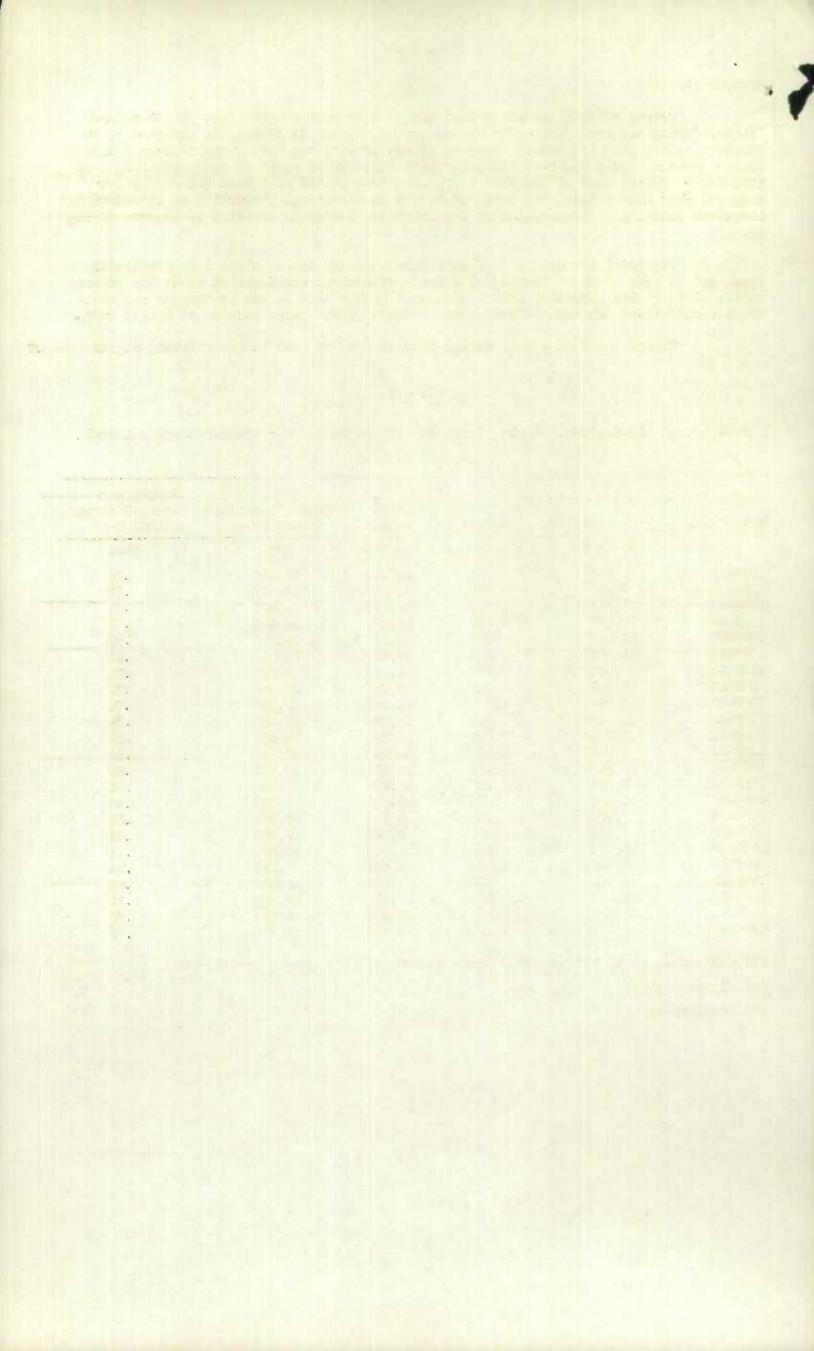
Table 1

Feed Grains: Production, Stocks, Total Supply and Supply per Grain-Consuming Animal,

1918-19 to Date

Crop Years	Production(1)	Stocks(2)	Total Supply	Grain-Consuming& Animal Units	Supply por Grain-Consuming Animal Unit
manymorthermagnetic date as a set or ord to 1 when a sub-transfer	000-Tons	000-Tons	000-Tons	000	Tons
1918-19	10,943	297	11,240	14,452	.78
1919-20	9,800	420	10,220	14,782	.69
1920-21	12,311	21.4	12,525	14,051	.89
1921-22	10,479	819	11,298	14,687	.77
1982-23	12,320	352	12,672	14,929	.85
1923-24	13,458	499	15,957	15,273	.91
1924-25	10,845	969	11,814	16,028	.74
1925-26	10,582	700	11,282	15,384	.73
1926-27	10,556	1,000	11,556	15,532	.74
1927-28	11,549	541	12,090	15,581	•78
1928-29	12,736	628	13,364	15,528	.86
1929-30	8,893	1,150	10,043	15,647	.64
1930-31	12,546	1,173	13,719	15,415	.89
1931-32	8,594	2,189	10,783	16,434	.66
1932-33	10,100	832	10,932	16,702	.65
1933-34	7,994	1,150	9,144	15,877	.58
1934-35	8,419	906	9,325	15,850	•59
1935-36	10,334	671	11,005	15,558	.71
1936-37	7,637	1,010	8,647	16,117	.54
1937-38	7,906	426	8,032	15,895	.52
1938-39	10,382	514	10,896	15,202	.72
1939-40	10,861	1,192	12,053	16,119	.75
1940-41 (3)	11,200	1,122	12,388	17,676	.70

- (1) Including Oats, Barley, Rye, Corn, Buckwheat, Peas, Mixed Grains.
- (2) Including Oats, Barley, Ryc.
- (3) Proliminary.



# Table 2

Food Grains: Exports and Imports (1)
1914-15 to Date
000 Tons

Year	Exports	Imports	Yoar	Exports	Imports
1914-15	474	321	1927-28	1,211	479
1915-16	1,218	268	1928-29	1,412	484
1916-17	1,432	356	1929-30	148	480
1917-18	768	223	1930-31	732	266
1918-19	499	310	1931-32	901	269
1919-20	704	338	1932-33	477	247
1920-21	807	290	1933-34	280	185
1921-22	1,001	445	1934-35	712	266
1922-23	1.052	309	1935-36	527	173
1923-24	1,350	266	1936-37	701	584
1924-25	1,534	244	193738	525	605
1925-26	1,630	325	1938-39	694	298
1926-27	1,319	459	1939-40	840	243

(1) Fiscal year 1914-15.
Crop years 1915-16 to date.

Table 3
Oats and Barley: Exports and Imports
Thousand Bushels

	Oats		Barl	ey
Year	Exports	Imports	Exports	Imports
1935-36	11,981	339	7,676	ma ma
1936-37	5,997	8	17,556	~~
1937-38	4,777	11,806	14,7:4	1 2
1938-39	9,603	3,334	16,499	2
1939-40	15,812	1	12,148	4 .

# Table 4

Index Numbers of Feed Prices and Prices of Live Stock and Live Stock Products by Months, 1935-1940

1926 = 100

	19	935	19	936	19	37	19	38	19	939	19	40
	Feed	Animal	Feed	Animal	Feed	Animal	Feed	Animal	Feed	Animal	Feed	Animal
January	84.3	71.0	62.3	77.5	105,3	82.1	94.2	82.2	57.2	81.6	78.2	85.4
February	80.9	72.5	61.0	77.8	104.7	82.6	96.4	81.1	58.4	81.3	78.6	85.0
March	79.6	73.3	62.1	76.0	107.5	84.2	93.1	81.6	59.0	81.9	78.7	84.9
April	82.4	72.9	61.8	73.8	107.8	86.3	88.4	81.2	61.6	81.1	80.4	84.1
May	80.5	74.4	60.6	73.0	102.8	85.7	85.8	81.7	63.6	80.5	73.8	84.3
June	76.0	72.0	61.7	70.4	99.2	81.4	81.2	80.4	59.1	76.0	66.7	83.5
July	72.6	71.1	76.5	71.6	107.1	83.9	74.0	80.7	54.3	75.4	64.7	83.9
August	68.4	72.4	89.8	71.9	90.9	85,5	63.4	79.6	53.8	75.4	64.1	83.3
September	64.9	75.5	90.2	74.7	91.3	88.88	55.6	81.1	71.2	81.8	64.2	85.8
October	63.9	76.7	90.0	76.2	91.5	86.9	55.6	81.0	66.6	86.6		
November	63.3	77.1	91.6	79.5	87.3	87-4	54.2	82.1	67.4	86.8		
December	62.9	77.9	101.0	80.8	88.4	84.6	54.5	82.6	75.3	86.4		

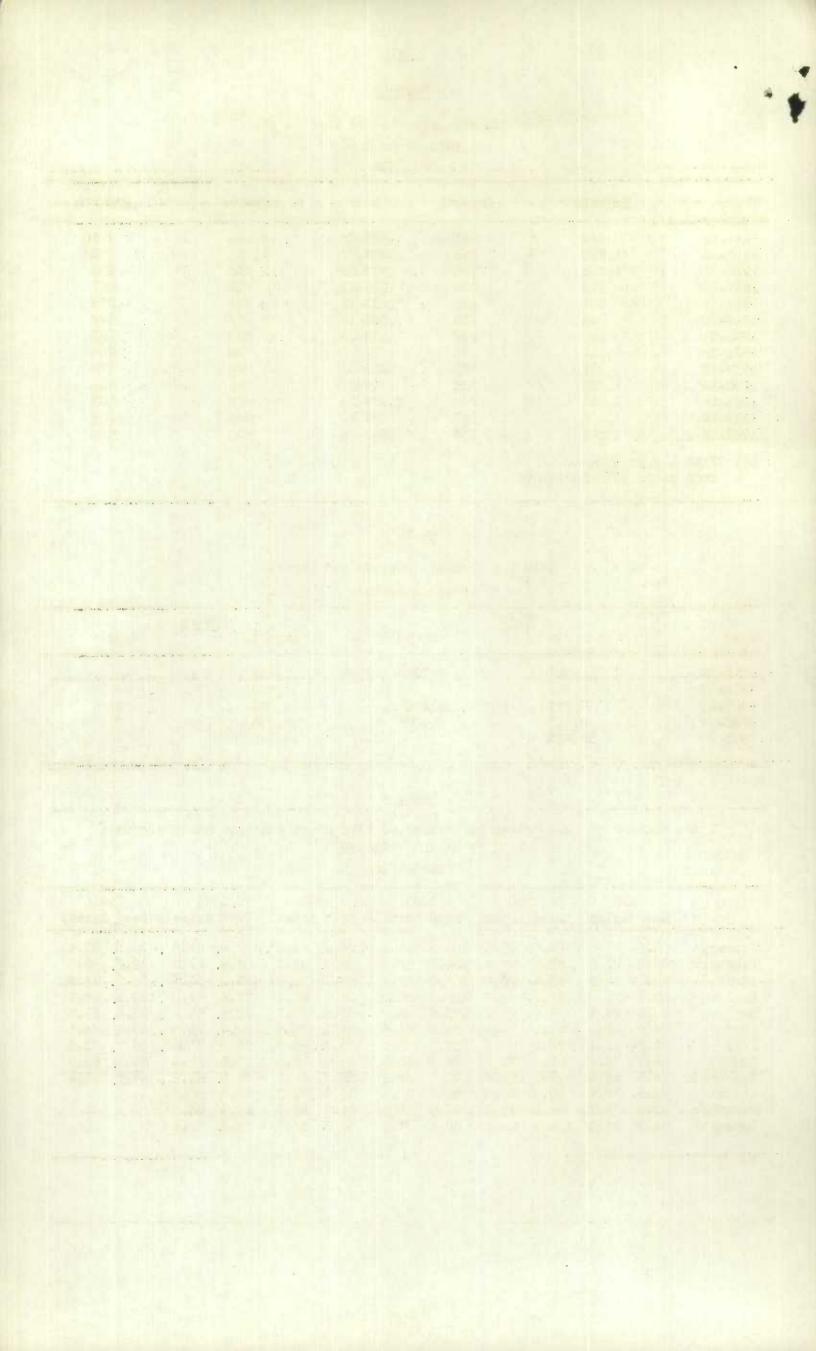


Table 5

Feed Grain Prices - Fort William - Port Arthur Basis
Crop Years 1935-36 to Date, by Months
Cents per Bushel

	1935-36	1936-37	1937-38	1938-39	1939-40	1940-41
Oats No. 1 Feed						
August	32	43	48	29	25	26
September	30	40	48	26	33	28
October	26	40	48	25	28	
November	25	42	43	25	28	
December	24	46	42	24	34	
January	26	51	46	26	36	
February	27	52	45	26	36	
March	26	54	45	26	35	
April	26	57	44	26	36	
May	26	53	44	28	33	
June	28	55	42	27	30	
July	36	59	38	23	28	
Barley No. 1 Feed(1)						
August	34	60	58	38	32	32
September	36	59	59	34	45	34
October	34	61	62	36	42	
November	33	62	59	34	42	
December	34	76	57	36	47	
January	35	84	62	36	49	
February	36	83	64	36	50	
March	38	81	59	35	49	
April	38	75	55	37	50	
May	37	71	56	40	39	
June	38	66	53	36	32	
July	51	72	46	33	32	

Table 6

Millfeeds: Production of Bran, Shorts and Middlings

1920-21 to Date

$\Gamma$	2000-		
Years ending July 31	Total Tons	Years ending July 31	Total Tons
1920-21	348,885	1930-31	562,932
1921-22	541,015	1931-32	502,377
1922-23	656,893	1932-33	510,028
1923-24	709,685	1933-34	512,725
1924-25	631,855	1934-35	491,040
1925-26	654,087	1935-36	544,296
1926-27	620,320	1936-37	525,006
1927-28	685,242	1937-38	444,586
1928-29	758,366	1938-39	557,912
1929-30	561,665	1939-40	656,923

Table 7

Millfeeds: Production, Exports, Imports and Apparent Consumption Crop Years 1935-36 to 1939-40

	Production	Exports	Imports	Apparent Consumption
	Tons	Tons	Tons	Tons
1935-36	544,296	171,095	475	373,676
1936-37	525,006	190,364	558	335,200
1937-38	444,586	48,052	5,617	402,151
1938-39	557,912	173,276	1,156	385,792
1939-40	656,923	276,572	579	380,930

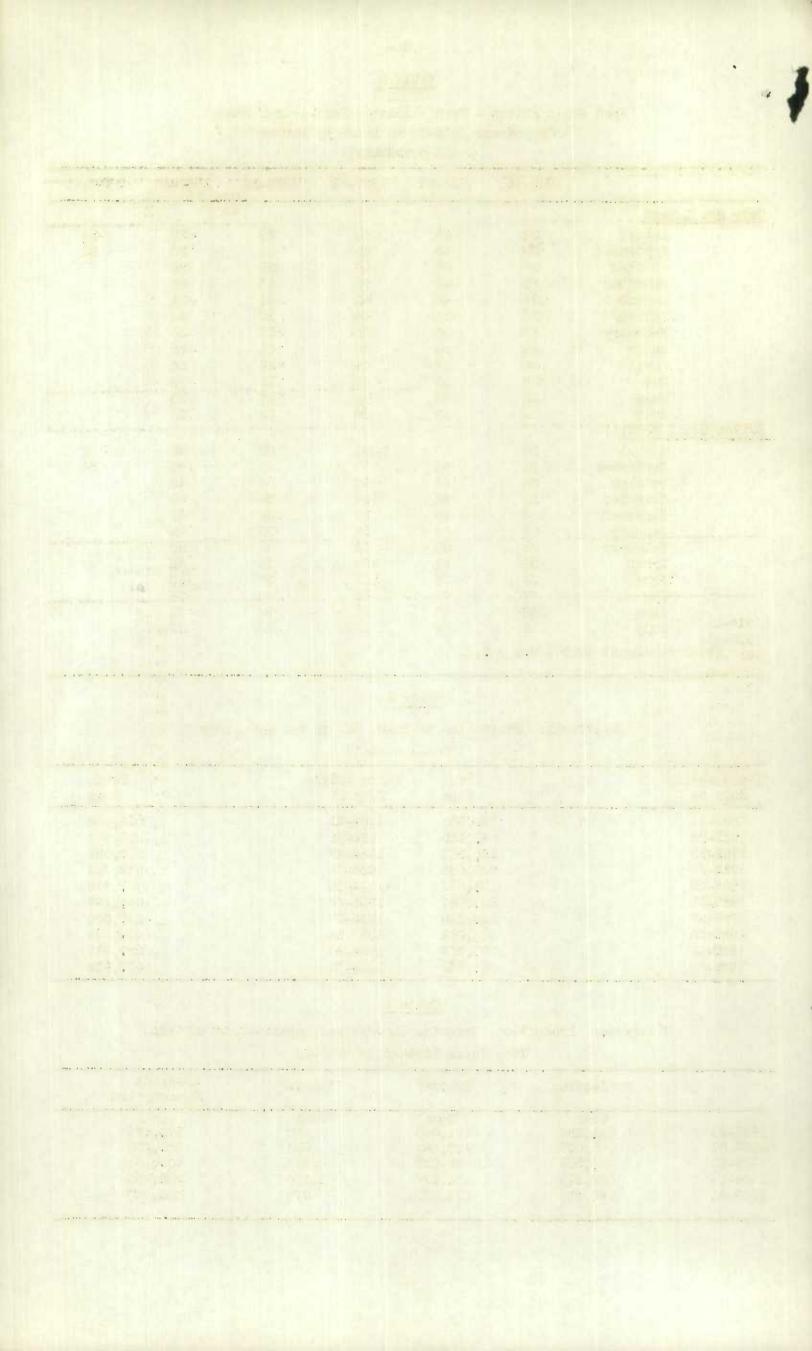


Table 8

Fastures: Condition at August 31 and September 30 1939 and 1940

	Augus	st 31	Septem	ber 30	
 Province	1939	1940	1939	1940	
Prince Edward Island	80	80	62	86	
Nova Scotia	88	83	75	82	
New Brunswick	90	86	81	91	
Quebec	101	93	98	91	
Ontario	88	99	90	101	
Manitoba	70	80	89	88	
Saskatchewan	73	74	81	81	
Alberta	68	90	80	94	
British Columbia	84	86	88	88	
CANADA	90	92	89	93	

Table 9

Hay and Fodder: Total Production in Canada and Production per Hay-Consuming Animal Unit, 1914-15 to Date

	Hay and Fodder Production (1)	Hay-Consuming Animal Units	Production per Hay-Consuming Animal Unit
	000-Tons	000	Tons
1914-15	13,728 (2)	9,149	1.50
1915-16	14,256 (2)	9,517	1.50
1916-17	16,722 (2)	9,792	1.71
1917-18	16,637 (2)	10,084	1.65
1918-19	20,006 (2)	10,575	1.89
1919-20	21,936 (3)	10,912	2.01
1920-21	19,701 (3)	10,646	1.85
1921-22	19,679 (3)	10,885	1.81
1922-23	22,798 (3)	10,683	2.13
1923-24	25,530	10,429	2.45
1924-25	26,941	10,584	2.55
1925-26	25,674	10,392	2.47
1926-27	25,372	10,466	2.42
1927-28	26,968	10,197	2.64
1928-29	26,212	10,057	2.61
1929-30	23,089	10,108	2.28
1930-31	24,672	10,177	2.42
1931-32	22,424	10,372	2.16
1932-33	21,522	10,824	1.99
1933-34	19,166	11,004	1.74
1934-35	18,119	11,075	1.64
1935-36	22,024	10,981	2.01
1936-37	19,907	10,892	1.83
1937-38	20,832	10,899	1.91
1938-39	21,946	10,583	2.07
1939-40	21,596	10,552	2.05
1940-41	21,793 (4)	10,670	2.04

- (1) Including Hay and Clover, Fodder Corn, Alfalfa and Grain Hay.
- (2) Grain Hay not included.
- (3) Incomplete estimates of Grain Hay.
- (4) Preliminary.



e , R. .

.

.

4.10

49

•

. .

.

.