

22-D-61  
Historical File Copy

CANADA  
DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY

---

BARLEY,  
its  
PRODUCTION AND USES  
in  
CANADA

---

Published by Authority of the Hon. H. H. Stevens, M.P.,  
Minister of Trade and Commerce

+++

OTTAWA

1931

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

OTTAWA, CANADA

---

Dominion Statistician: R. H. Coats, B.A., F.S.S. (Hon.), F.R.S.C.  
 Chief, Census of Industry: J. C. Macpherson.

---

BARLEY - ITS PRODUCTION AND USES IN CANADA

Barley is the hardiest of all cereals and can be grown through a greater range of climate than any other. Its production dates from the most ancient times, when it was used principally as an article of food, but as the years progressed its uses became varied, so that now its main consumption is in the production of beverages though it still retains its uses as a food for man and beast.

The production of barley ranks third among the cereal crops of the Dominion in acreage and total yield and second in average yield per acre.

(1) Production

Table 1 summarizes the statistics of the acreage, yield, yield per acre, weight per measured bushel, average price per bushel and total value of the crop for each year of the five year period 1926-1930, and an average for the full five year period.

Barley Production, 1926-1930.

	Area	Yield per acre	Total Yield	Weight per measured bushel	Average price per bushel	Total Value
	Acres	Bushels	Bushels	Pounds	\$ ¢	\$
Barley..... 1926	3,647,462	27.4	99,987,100	47.10	0.52	52,059,000
1927	3,505,713	27.7	96,938,000	47.20	0.66	64,193,000
1928	4,880,740	27.9	136,391,400	47.04	0.56	76,112,000
1929	5,925,542	17.3	102,313,300	47.31	0.59	60,505,000
1930	5,558,700	24.3	135,160,200	47.22	0.20	27,254,000
Average 1926-1930	4,703,631	24.3	114,158,000	47.17	0.49	56,024,600

Table 2 presents a condensed summary of the distribution of the yield of barley for the crop years 1928-9 and 1929-30. The balance of merchantable grain is represented by the quantities used, (1) for feed by farmers, (2) for sale or other consumption in Canada, (3) the quantity exported, the remainder being the carry over to the next crop year.

Table 2. - Barley Distribution, 1928-1929.

	1 9 2 8	1 9 2 9
	Bushels	Bushels
1. Stock carried over from 1927	3,459,693	11,020,857
2. Crop, 1928	136,391,400	102,313,300
3. Imports	8,253	16,902
Total Stock	139,859,346	113,351,059
4. Exports	40,147,702	2,604,612
Consumption by		
5. Flour and grist mills	1,560,863	1,667,230
6. Malt mills	4,116,217	4,724,034
7. Breweries, etc.	165	139,277
8. Total Manufactures and Exports	45,824,947	9,135,153
9. Used for seed	11,851,084	11,117,400
10. In store farmers' hands	3,190,400	3,050,000
11. In elevators and in transit	7,830,457	19,825,432
12. Loss in cleaning	750,152	378,559
13. Unmerchantable grain	7,308,400	6,878,300
Total 8 to 13	76,755,440	50,384,844
Balance merchantable grain	63,103,906	62,966,215

(2) Uses

Barley in the industrial field is used principally as a primary material in the Milling and Malting industries, the products in the former including barley flour and meal, barley, pot and pearl, and chopped feed, and in the latter malt and its derivatives, malt extract or syrup, and malt flour or powder.

The Milling Industry.

The quantity of barley used in the milling industry is difficult to ascertain as it is used separately and in combination with other grains in the production of chopped grain feeds. The quantity and the value of that used separately reported by the milling industry for the calendar years 1926 to 1929 was as follows:-

	Quantity Bushels	Value \$
1926	1,645,957	1,122,731
1927	1,545,000	1,134,254
1928	1,560,863	1,170,351
1929	1,667,230	1,199,106

whilst that used in combination with other grains was reported for the same years under

the head of mixed grains as follows:-

	Quantity Bushels	Value \$
1926	31,496,526	18,934,524
1927	35,065,625	21,741,428
1928	32,942,786	20,242,163
1929	31,744,628	20,080,365

What proportion of barley is comprised in the total of mixed grains, it is difficult to say, but it is estimated on reliable authority at 40 per cent.

Production

The products into which barley enters as a material are represented by (1) chopped feed, (2) barley flour and meal, and (3) pot and pearl barley, the quantity and value of each being given for the calendar years 1926-1929 in the sub-joined summary, the figure for barley chopped for feed being estimated.

Production Statistics

<u>1926</u>			
			\$
Barley, pot and pearl	lb.	4,261,061	1371777
Barley, flour and meal	lb.	694,800	14,097
Barley, chopped alone	bu.	1,542,710	970,857
Barley, in mixed grain, chopped	bu.	12,598,610	7,573,810
<u>1927</u>			
Barley, pot and pearl	lb.	4,268,528	145,654
Barley, flour and meal	lb.	1,344,800	33,372
Barley, chopped alone	bu.	1,428,055	954,868
Barley, in mixed grain, chopped	bu.	14,026,250	8,696,571
<u>1928</u>			
Barley, pot and pearl	lb.	3,713,692	134,567
Barley, flour and meal	lb.	500,700	11,105
Barley, chopped alone	bu.	1,473,063	1,024,679
Barley, in mixed grain, chopped	bu.	13,177,114	8,096,865
<u>1929</u>			
Barley, pot and pearl	lb.	4,009,186	138,058
Barley, flour and meal	lb.	670,900	15,589
Barley, chopped alone	bu.	1,569,730	1,045,459
Barley, in mixed grain, chopped	bu.	12,697,851	8,032,146

The Malting Industry

The quantity of barley used by malt mills reported to the Dominion Bureau of Statistics during the calendar years 1926-1929 is summarized below:-

	Quantity Bushels	Value \$
1926	2,963,091	1,805,296
1927	3,595,093	2,962,683
1928	4,116,217	3,350,368
1929	4,724,034	3,640,341

Production

The malt produced from the barley used in malt mills during the above mentioned years was as follows:-

	Quantity Bushels	Value \$
1926	3,140,665	3,199,751
1927	3,677,113	3,800,107
1928	4,541,492	4,593,088
1929	5,342,558	5,308,901

Imports

In addition to the malt manufactured there was a large importation, principally from the United States; and which for the calendar years 1926-1929 is given in the Trade of Canada report by pounds, but are in the appended statement converted into bushels of 36 pounds.

	Quantity Bushels	Value \$
1926 - United Kingdom	2,254	3,986
United States	581,346	543,685
Total	583,600	547,671
1927 - United Kingdom	2,905	5,710
United States	793,885	811,623
Total	801,468	826,069
1928 - United Kingdom	1,472	3,421
United States	1,138,993	1,319,454
Total	1,147,778	1,337,275
1929 - United Kingdom	722	1,428
United States	771,847	752,959
Total	777,154	762,959

Exports

The quantity of malt exported according to the Trade returns had its destination in South and Central American countries in the calendar years 1926-1929, with a small quantity to the United States in 1929.

Total Exports of Malt

	<u>Quantity</u> Bushels	<u>Value</u> \$
1926	138,527	189,750
1927	135,005	178,457
1928	42,439	59,457
1929	41,726	55,659

Table 3 shows the malt used in Canadian industries by quantity, value and percentages revised and corrected for the calendar years 1926-1929.

Table 3. - Malt used in Canadian Industries, 1926-1929.  
(Revised and Corrected to date)

Industry	Unit of Measure	Quantity	Value	Percentage	
				Quantity	Value
			\$	p. c.	p. c.
<u>1926</u>					
Brewing Industry -					
Domestic	lb.	92,922,272	5,707,958	70.85	72.26
Foreign, including duty	lb.	17,470,453	1,072,577	13.32	13.57
Distilleries -					
Domestic	lb.	6,786,626	401,296	5.17	5.09
Foreign, including duty	lb.	637,649	34,606	.49	.44
Malt Mills -					
Domestic	lb.	8,428,640	213,207	6.43	2.70
Foreign, including duty	lb.	-	-	-	-
Biscuit and confectionery industry	lb.	22,499	2,720	.02	.03
Baking industry	lb.	3,582,886	411,280	2.73	5.20
Miscellaneous food industries	lb.	1,243,016	52,168	.95	.66
Chemical industries	lb.	61,200	3,706	.04	.05
T o t a l s	lb.	131,155,241	7,899,518	100.00	100.00

Table 3. - Malt used in Canadian Industries, 1926-1929 - Cont'd.  
(Revised and Corrected to date)

Industry	Unit of Measure	Quantity	Value	Percentage	
				Quantity	Value
			\$	p. c.	p. c.
<u>1927</u>					
Brewing industry -					
Domestic	lb.	103,091,595	6,315,835	65.93	67.55
Foreign, including duty	lb.	22,072,127	1,379,259	14.12	14.75
Distilleries -					
Domestic	lb.	13,589,488	696,750	8.69	7.45
Foreign, including duty	lb.	3,267,460	200,854	2.09	2.15
Malt mills -					
Domestic	lb.	7,598,200	209,933	4.86	2.25
Foreign, including duty	lb.	1,700,856	60,077	1.09	.64
Biscuit and confectionery industry	lb.	23,254	4,106	.01	.04
Baking industry	lb.	3,726,253	427,033	2.38	4.57
Miscellaneous food industries	lb.	1,243,016	52,158	.80	.56
Chemical industries	lb.	54,000	3,498	.03	.04
T o t a l s	lb.	156,366,249	9,349,513	100.00	100.00
<u>1928</u>					
Brewing industry -					
Domestic	lb.	115,894,501	7,409,992	59.44	60.45
Foreign, including duty	lb.	30,134,034	1,961,820	15.46	16.00
Distilleries -					
Domestic	lb.	29,021,350	1,779,213	14.89	14.52
Foreign, including duty	lb.	2,912,049	220,081	1.49	1.80
Malt mills -					
Domestic	lb.	7,490,400	242,752	3.84	1.98
Foreign, including duty	lb.	4,260,128	132,758	2.19	1.08
Biscuit and confectionery industry	lb.	41,964	5,255	.02	.04
Baking industry	lb.	3,892,161	442,356	2.00	3.61
Miscellaneous food industries	lb.	1,249,728	59,517	.64	.49
Chemical industries	lb.	61,200	3,840	.03	.03
T o t a l s	lb.	194,957,515	12,257,584	100.00	100.00
<u>1929</u>					
Brewing industry -					
Domestic	lb.	122,975,279	7,534,306	61.41	60.84
Foreign, including duty	lb.	25,158,676	1,696,517	12.57	13.70
Distilleries -					
Domestic	lb.	33,356,042	2,019,140	16.65	16.30
Foreign, including duty	lb.	5,887,378	379,034	2.94	3.06
Malt mills -					
Domestic	lb.	6,452,000	189,163	3.22	1.52
Foreign, including duty	lb.	-	-	-	-
Biscuit and confectionery industry	lb.	48,000	5,640	.025	.05
Baking industry	lb.	4,325,901	472,363	2.16	3.81
Miscellaneous food industries	lb.	2,002,671	85,466	1.00	.70
Chemical industries	lb.	43,200	2,817	.025	.02
T o t a l s	lb.	200,249,147	12,384,446	100.00	100.00

Other Products of Malt

Malt Syrup or Extract

The production of malt syrup or extract for the calendar years 1926 to 1930 inclusive was as reported below:-

	Quantity Pounds	Value \$
1926	7,379,045	608,711
1927	7,556,033	636,944
1928	7,596,804	665,345
1929	8,000,606	710,915
1930	10,194,175	741,004

The imports of malt extract, including grain molasses, for the same years by principal countries were:

	Quantity Pounds	Value \$
1926 - From United Kingdom	207,236	16,747
From United States	3,586,868	276,043
Total	3,794,874	292,876
1927 - From United Kingdom	331,582	25,902
From United States	3,753,846	289,555
Total	4,085,847	315,505
1928 - From United Kingdom	407,873	26,638
From United States	3,481,368	279,051
Total	3,889,940	305,708
1929 - From United Kingdom	582,763	52,339
From United States	3,821,919	299,171
Total	4,404,798	351,520
1930 - From United Kingdom	649,766	60,707
From United States	3,303,875	263,010
Total	3,954,856	323,864

From the above statement of imports it will be noted that during the five year period there has been a gradual increase in both quantity and value of imports of malt extract from the United Kingdom from 207,236 pounds valued at \$16,747 in 1926 to 649,766 pounds valued at \$60,707 in 1930 or an increase of over 300 per cent, whilst the imports from the United States show considerable fluctuation, the figures for 1930 being the lowest of the five year period.

Malt Extract Powder

Up to 1929 there was no production of Malt Extract Powder or Malt Syrup Powder reported in Canada, though it is understood that several firms have such a step in contemplation, whilst the imports are included in the Trade returns under Malt Extract of Malt Syrup.



Rates of Custom Duties on Barley, Malt and Malt Products

I t e m s	Rates of Duty			I t e m s	Rates of Duty		
Prior to May 2, 1930	Prior to May 2, 1930			Effective on and after May 2, 1930	Effective on and after May 2, 1930.		
52 Barley, n.o.p..... Bush.	10¢ p. bush.	12½¢ p. bush.	15¢ p. bush.	52 Barley, n.o.p. .... Bushel	Free	22½¢	25¢
167 Malt, whole, crushed or ground ..... Lb.	45¢ p.100 lb.	45¢ p.100 lb.	45¢ p.100 lb.	167 Malt, whole, crushed or ground, and malt flour, n.o.p. upon entry, for ware- house subject to excise regulations, per pound	1/3 ¢	1/2¢	3/4¢
168 Malt, extract of, fluid or not, including grain molasses ..... Lb.	35% and 2¢ p. lb.	35% and 2¢ p. lb.	35% and 2¢ p. lb.	168 Malt flour containing less than 50 per centum in weight of malt; malt syrup or malt syrup powder; ex- tracts of malt, fluid or not; grain molasses - all <b>articles</b> in this item upon valuation without British or foreign excise duties, under regulations prescribed by the Minister, per pound	3¢ and 25 p.c.	3¢ and 30 p.c.	3¢ and 35 p.c.
168 Malt flour, containing less than 50 p.c.in weight of malt ..... Lb.	35 p.c. and 2 ¢ p. lb.	35 p.c. and 2¢ p. lb.	35 p.c. and 2¢ p. lb.	Included in item 168	Included in item 168		
167 Malt flour, containing not less than 50 p.c.of malt Lb.	45¢ p.100 lb.	45¢ p.100 lb.	45¢ p.100 lb.	Included in item 167	Included in item 167		

349005

346002

STATISTICS CANADA LIBRARY  
BIBLIOTHÈQUE STATISTIQUE CANADA



1010746267